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PATENTS

Band-in-a-Box is protected under US Patent 5990407. The TC-Helicon Harmony feature in Band-in-a-Box and PowerTracks Pro Audio is protected under US Patents 5567901, 5641926, 5986198, 34583, 296.80.173.9, PI9603819.5, 0368046, 0750776, 6,046,395, and patents pending.

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Chapter 1: Welcome to Band-in-a-Box!

Congratulations on your purchase of Band-in-a-Box 2010.5 for Macintosh, the favorite of musicians, students, and songwriters everywhere. Get ready to have fun!

What is Band-in-a-Box?
Band-in-a-Box is an intelligent automatic accompaniment program for your multimedia computer.

You can hear and play along to many song ideas and go from “nothing” to “something” in a very short period of time with Band-in-a-Box as your “on demand” backup band.

Band-in-a-Box is so easy to use!
Just type in the chords for any song using standard chord symbols (like C, Fm7, or C13b9), choose the style you’d like, and Band-in-a-Box does the rest, automatically generating a complete professional-quality arrangement of piano, bass, drums, guitar, and strings or horns in a wide variety of popular styles plus optional live audio tracks with RealDrums and RealTracks.

Band-in-a-Box 2010.5 for Macintosh introduces exciting new features like RealDrums, RealTracks and the amazing Audio Chord Wizard!

First of all, this new version is designed for the MacIntel machines, not the older PowerPC Macs. This means that the program is running directly on the Intel chip, instead of emulation mode, which speeds up operations.

We’ve added RealTracks - audio instruments that replace the MIDI track with actual recordings of top studio Jazz/Rock/Country musicians! These are not “samples” of single instrument hits; they are full recordings, lasting from 1 to 8 bars at a time, playing along in perfect sync with the other Band-in-a-Box tracks. We have a huge library of over 170 RealTracks available, including lots of Jazz, Rock, Blues, Country, Folk and Bluegrass styles. Best of all, you use these instruments like regular styles.

By simply choosing a RealStyle, you will hear your new or existing songs played by real instruments, with a dramatic improvement in sound and musicality. For example, choose a Country MIDI style that includes RealPedalSteel, and you will now hear a studio pedal steel player, exactly as if he was in the room with you. To hear the differences, listen to the audio demos of RealTracks at www.pgmusic.com.

Many of the RealTracks have RealCharts; this allows you to see notation and correct guitar tab/fretboard display, a great help for learning to play from the masters performing on the RealTracks.

And we've added RealDrums - audio drum styles that replace the MIDI Drum track with actual recordings of top studio Jazz/Rock/Country drummers! Again, these are not “samples” of single drum hits; they are full recordings, lasting from 1 to 8 bars at a time, playing along in perfect sync with the other Band-in-a-Box tracks. Hundreds of RealDrums styles are available.

And we've added an amazing “Chords from MP4” feature (Audio Chord Wizard). This amazing feature automatically figures out the chords from any AIFF, MP4, M4A, or other audio file, and displays them in Band-in-a-Box. Just load in any audio file and you’ll instantly see the chords in Band-in-a-Box. The Audio Wizard also figures out tempo, bar lines, key and fine-tuning from the audio file.

With the new Direct Render to Disk feature, you can save your files directly as audio files (AIFF, M4A, WAV), for use in other programs (GarageBand, Cubase, etc.), or in Internet formats.

And much more …
People familiar with the previous versions of Band-in-a-Box will be pleased to know that we have kept the same functionality of our previous releases. The new features are optional and don't interfere with familiar methods of using the program. All songs, styles etc. are completely compatible with previous versions, so that you can upgrade without losing any of your existing work.
System Requirements
- Mac OS X 10.4 or later.
- Intel Processor.
- 512 MB RAM.
- About 2.5 GB free hard disk space if you wish to install and run the Band-in-a-Box program from your internal hard drive. 40 GB if you wish to install all the RealTracks and RealDrums audio files as well.
- 1024x768 or higher screen resolution recommended.
- Hard drive versions require an available USB port.

Installation
Band-in-a-Box is available on discs (CD-R and DVD-ROM) and for Internet download. Premium versions are optionally available pre-installed on an external hard drive. The hard drive version includes installation files that can also be installed to the Macintosh HD.

The Band-in-a-Box program installs by default to its own Band-in-a-Box folder inside the /Applications folder. Unless there is an important reason to install it to a different location, we suggest that you accept the default location.

The /Band-in-a-Box folder has a clean look with only one application file in the folder - Band-in-a-Box. The rest of the files are in subfolders.

The folders include the Drums folder for RealDrums files and the RealTracks folder for RealTracks files. If either of these folders is moved or the files are installed in a custom location, the new location must be entered in the RealDrums Settings dialog or the RealTracks Settings dialog so that Band-in-a-Box knows where to find them.

The Preferences you set in the program are saved in the Preferences folder, and this folder also has a file named Intrface_X86.BBW with all the program settings including MIDI and audio driver setup. If this file is removed to the trash the program will open like a new installation the next time it runs. It will prompt for all of the initial setup selections. This is useful as a “global reset” if there are system settings that have been changed by accident.
**Band-in-a-Box External USB Hard Drive**

Band-in-a-Box, RealTracks, and RealDrums are pre-installed on the portable hard drive. You have three basic choices for how to run Band-in-a-Box.

1. **Run Band-in-a-Box directly from hard drive.**
   You can run Band-in-a-Box directly from this hard drive, and not copy anything to your computer's internal hard drive. (0 GB disk space required.)
   To do this, first run the "Band-in-a-Box Setup" installer located on the root level of the hard drive. This will install the PG Music fonts on your computer, necessary for viewing the Notation Window. You don't need to select the option to install BIAB to your internal hard drive.
   You can use Band-in-a-Box simply by double-clicking on the Band-in-a-Box application in the Applications\Band-in-a-Box folder on this hard drive. You can make an alias for it (Command+L) or add it to the dock if you wish.

2. **Install only the Band-in-a-Box program to your computer.**
   You can install Band-in-a-Box on your computer's hard drive, but leave the RealTracks and RealDrums on the USB hard drive. (4 GB free disk space required.)
   To do this, run the "Band-in-a-Box Setup" installer located on the root level of the hard drive, and select the option to install BIAB to your internal hard drive. Band-in-a-Box will be installed to the /Applications/Band-in-a-Box folder. Note that you will need to specify a custom location in the RealTracks and RealDrums Settings dialogs within Band-in-a-Box - that is, point to the 'Drums' and 'RealTracks' folders in the Band-in-a-Box folder on the USB drive.
   This choice is useful because it allows you to keep a backup of the factory Band-in-a-Box program files on the USB drive, but save space on your Macintosh hard drive by not copying the 'real files'.

3. **Install the full program with RealTracks and RealDrums to your computer.**
   You can install Band-in-a-Box, RealTracks, and RealDrums on your computer's hard drive, and leave the USB hard drive entirely for backup. (About 80 GB free disk space required.)
   To do this, run the "Band-in-a-Box Setup" installer located on the root level of the hard drive, and select the option to install BIAB to your internal hard drive. Band-in-a-Box will be installed to the /Applications/Band-in-a-Box folder, like option #2.
   You'll then need to copy the 'RealTracks' and 'Drums' folders manually from the USB drive. They aren't installed automatically. Note that you only need to copy those two folders - 'Drums', and 'RealTracks' - nothing else. The Band-in-a-Box Setup installer will have taken care of all the other files.

---

**Using the USB Hard Drive**

When you plug the hard drive into a USB port, it should be mounted on your desktop automatically. Before disconnecting the drive, make sure to “eject” it first. To do this, either drag the icon to the trash, or click on it and press Command+E.

The hard drive may have a “Y” cable with two USB connectors on one end. The large connector is the main data connector and needs to be plugged in. The smaller connector is for extra power, in case a single USB port on your computer doesn't supply enough power for the drive. If you are having trouble with the drive, and you have another empty USB port, plug that second cable in.

**Setup**

Band-in-a-Box automatically sets up to default settings that use the built-in Macintosh audio input and output, and the Apple DLS Music Device as the General MIDI synthesizer. For many users, these settings do not need to change.

For users with more elaborate setups and additional outboard audio or MIDI equipment, Band-in-a-Box offers the ability to customize both audio and MIDI settings through the Apple **Audio MIDI Setup** dialog and through its own dialogs.

**MIDI and Audio Setup**

The MIDI and audio settings for playing your music in Band-in-a-Box are made in the MIDI menu.

**MIDI Settings**
The first item in this menu is *MIDI Settings*, but they may not require any changes. We suggest that you start with the default settings, and see the MIDI Setup section if you find that changes to MIDI channels, patches, volume levels or effects levels are needed.

**Apple Audio MIDI Setup**

The *MIDI | CoreMIDI Audio MIDI Setup* menu item opens the Apple Audio MIDI Setup dialog, which controls the system settings for audio and MIDI.

There are two separate windows for Audio Devices and MIDI Devices, selected by clicking on the one you want in the bar at the top of the dialog.

Each window has its own Apple Help topic, which opens by clicking on the [*?*] button.
MIDI Drivers

Band-in-a-Box automatically detects the MIDI drivers installed in your system. The **Select MIDI Driver or Apple DLS Synth** menu command opens the **MIDI Drivers** dialog, which lists the drivers that have been detected.

Selecting “Apple DLS Synth” plays your MIDI tracks through the high quality built-in Apple DLS Music Device, or software synthesizer. No special configuration should be necessary.

“MacOS X CoreMIDI” lets you configure a custom setup with other software synths or external MIDI devices. The **CoreMIDI and Apple DLS Synth** chapter gives detailed instructions for your MIDI setup.

Click on **MIDI Drivers Help** to go to the tutorial.

Select Ports / Instruments

When Mac OS X CoreMIDI has been selected in the **MIDI Drivers** dialog (**Select MIDI Driver or Apple DLS Synth**) the **Select Ports/Instruments** dialog opens for your assignments.
Click on the [CoreMIDI Help] button for detailed instructions and see the tutorial in the CoreMIDI and Apple DLS Synth chapter.

When CoreMIDI has been selected as the MIDI driver the selections in the MIDI menu changes to provide access to CoreMIDI features.

CoreMIDI Audio MIDI Setup launches the Apple Audio MIDI Setup dialog.

**CoreMIDI (choose ports)** opens the Select Ports/Instruments dialog.

**Select MIDI Driver or Apple DLS Synth** returns to the MIDI Drivers dialog.

Just type in the chords for any song using standard chord symbols (like C, Fm7, or C13b9), choose the style you’d like, and Band-in-a-Box does the rest, automatically generating a complete professional-quality arrangement of piano, bass, drums, guitar, and strings or horns in a wide variety of popular styles plus optional live audio tracks with RealDrums and RealTracks.

And that’s not all...

Band-in-a-Box is a powerful and creative music composition tool for exploring and developing musical ideas with near-instantaneous feedback. Over the years, many powerful and practical features have been added to Band-in-a-Box, earning it a reputation as the “one music program you can’t do without.” In addition to its basic ability to “think” like a musician, the musical intelligence of Band-in-a-Box has grown to include improvisation, harmonization, and even songwriting! Its musical content embraces literally thousand of musical idioms and styles, all taken to new levels of quality and professionalism with the addition of RealDrums and RealTracks - live recordings by top studio musicians that add the human element to Band-in-a-Box arrangements, bringing your work to life.
As well as essential features like on-screen notation and professional lead sheet printouts, Band-in-a-Box supports your music making with unique and powerful features of its own. The Audio Chord Wizard has the amazing ability to analyze, extract, and show the chords from audio recordings on-screen for play along, and then write them to the Band-in-a-Box chordsheet. The MIDI Chord Wizard does the same thing for MIDI files. The DAW Plug-in Mode makes it easy to drag and drop tracks from Band-in-a-Box into your favorite sequencer (GarageBand, ProTools, Logic, Nuendo, Reaper and more).

Output your Band-in-a-Box songs in print or as a graphics file for web publication or to e-mail to a friend. And when you're ready to let others hear your composition, you can quickly and easily render your song to popular audio formats for burning to CD or uploading to the Internet.

There are many, many more features for song creation, practice, study, and fun waiting for you in the one-and-only Band-in-a-Box.

Let's get started!

Chapter 2: QuickStart Tutorial

Creating music with Band-in-a-Box is as easy as 1-2-3! In this tutorial, you’ll see just how easy it is to get Band-in-a-Box making music for you.

Step 1 – Enter the Chords
There are numerous ways of entering chords into Band-in-a-Box. We’ll discuss five fast ways of entering chords:

1. Using the Computer Keyboard
2. Playing directly on a MIDI Controller Keyboard
3. Using the Chord Builder
4. Importing Chords from a MIDI file
5. Loading an Existing Band-in-a-Box Format Song

On the main screen of the program, you’ll see an area called the Chordsheet.

Each of the numbered cells on the Chordsheet represents a bar. In this example, you can see that there is an F6 chord in the first bar of this song. Similarly, one row down, you can see an F6 chord in bar 5, and later in the song, a G7 in bar 7.

Notice the box in the first half of bar 1. This is the highlight cell, and it represents the bar you are currently working on. You can move the highlight cell around using the cursor keys, or select a specific bar using the mouse.

Enter Chords Using the Computer Keyboard
To enter a specific chord, move the highlight cell to where you want to place the chord. For example, if you wanted to add (or change) a chord in bar 20, you would highlight bar 20 on the Chordsheet. Next, type in your chords. If you want an F7 at bar 2, type F and 7 on your keyboard and press Return. Notice that when you use the Return key, the highlight cell moves to the second half of the bar. You could then enter another chord at beat 3. Chords are commonly typed using standard chord symbols (like C or Fm7 or Bb7 or Bb13#9/E), but you can enter them in any of the supported chord symbol display formats like Roman Numerals, Nashville Notation, and Solfeggio.

Enter Chords Using a MIDI Controller Keyboard
If you have a MIDI controller keyboard, you can use it to enter chords into Band-in-a-Box. First, you must make sure that your cables are properly connected and you have the correct input drivers selected.

If you play a chord on your MIDI keyboard, and then press Ctrl+Enter, the chord will be entered into the Chordsheet at the current highlight cell position.
Enter Chords Using the Chord Builder

Press the Chord Builder button to open the **Chord Builder** dialog with a list of chord roots and extensions.

![Chord Builder Dialog](image)

**Chord Builder Dialog**

To enter a chord at the current bar, select the chord root from the left pane, and then the extension on the right pane. Pressing **[Enter Chord ___]** enters the chord and advances the highlight cell to the next half bar.

**Import Chords from a MIDI File**

Band-in-a-Box can import chords from an existing MIDI file with the Chord Wizard. Choose **File | Import Chords from MIDI File** on the File menu, or use the keystrokes **Ctrl+Option+I**, to open the Chord Wizard dialog.

![Chord Wizard](image)

When the Chord Wizard dialog opens, press the **[Open (Change)...]** button to choose the MIDI file that you want Band-in-a-Box to interpret the chords from.

To help Band-in-a-Box interpret the chords better, you can choose a preset for the song. Choose from among such genres as Pop, Rock, or Jazz Standard.
Loading an existing Band-in-a-Box format song

Press the [song] button. The first time you use this button, Band-in-a-Box will offer to build a song list for you. We’ve included many demo songs for you to use, and they are listed in the song list.

You could also load a pre-existing song by using the File | Open song... menu item, or by pressing the F3 function key, which will launch the familiar Macintosh file dialog. Note that most songs will automatically load a “Style,” which we’ll learn about in the next section.

Going to the next step …

Now that you have chords on your chordsheet, you are ready to move on to Step 2 – Choosing a Style.

Step 2 – Choose a Style

Band-in-a-Box creates backing arrangements based on the chords you type in, applied to a particular Style.

What’s a Style?

A style is a set of rules that determine how Band-in-a-Box creates music using your chords. By adjusting the rules, we have created hundreds of styles that are appropriate for everything from Country to Bebop. Some style examples would be Jazz Swing, Blues Shuffle, Hip Hop, Country 4/4, Pop Ballad, Waltz and Medium Rock to name just a few. If you don’t find a pre-made style that suits your tastes, create one from scratch using the StyleMaker. Making custom styles with the StyleMaker is explained in detail in the full documentation.

Four Fast ways to Open a Style

Method 1: From Disk

To open a user style from disk, you can use the menu command User | Load Style From Disk or type Command+U. You will be presented with the Open Style dialog from which you can select a specific style from the Styles folder.

Method 2: The StylePicker

You can use the StylePicker window to select your style. Select the [Style] button above the Chordsheet to open the Select Style window.

Selecting a Style using the StylePicker.
This window shows styles listed by categories. RealStyles are styles entirely made with RealTracks and RealDrums. Styles with RealTracks use a combination of RealTracks and MIDI instruments. MultiStyles are styles with more variations than the standard “a” and “b” substyles.

Select a Set or genre from the left pane, and choose the specific style on the right pane. There are memos and examples for each of the styles. Styles with a similar feel and tempo range to the current selection (prototype) are marked with an (*) asterisk. These styles are possible substitutes for the prototype. Styles marked with a (^) caret symbol are similar in feel but have a different tempo range.

You can audition a style by clicking on the [Preview] button to hear your song played with the style that is currently highlighted in the list.

The style of your song can be changed at any bar by pressing the F5 key to launch the Edit Bar Settings dialog.

**Method 3: Recently Played Styles and Favorites**

Styles that you’ve used previously show up in the Recently Played Styles dialog. Choose this from the menu User | Load Favorite Styles... or click on the [F] button to the left of the [Style] StylePicker button. You can either choose from recently played styles or go to your saved list of Favorites. You can add to or edit the Favorites list.

**Method 4: Quick Pick**

You can choose from among the 24 “built-in” styles. This list provides a quick way to choose from among the most popular music genres.

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**Step 3 – Play your song!**

Now that we’ve entered chords on the Chordsheet and chosen a style, it’s time to play the song! First we need to tell Band-in-a-Box how long our song is, in what key and how fast, and how many times we want the program to play through the chords, in what key, and how fast.
Framing the Song
To tell Band-in-a-Box where the start and end of the song is, look at the middle of the Band-in-a-Box main screen.

| F | Song  | Untitled | ZZJAZZ.STY | C | t= 120 ( 1 - 32) | 3 |

Locate the framing settings; there are three of them. The numbers (1-32) in brackets are the bar numbers for the beginning and the end of the Chorus. The number 3 to the right of the brackets is the number of times the Chorus repeats. In the example above, the Chorus starts at bar 1, ends on bar 32, and is going to play 3 times. You can change these settings to play more choruses, or make the Chorus start later, for example in the case where you want an intro to play.

Setting the Key
In the example shown, the key is set to C but you can choose any key by clicking on the key signature and choosing from a list. If you do change the key, Band-in-a-Box will offer to transpose the Chordsheet for you. If you’ve entered a progression that you intend for a particular key, and then choose the key afterward, you should say no when asked to transpose the Chordsheet.

Setting the Tempo
If you know the tempo value of your song, you can enter it in the tempo box. The song example above has a tempo of 120. There is an even faster way to enter a tempo. Locate the minus key [-] and the equals key [=] in the number row of your computer keyboard, they are usually next to each other. If you tap the [-] key 4 times at your tempo, Band-in-a-Box will set the tempo automatically for you. If you tap the [=] key four times, Band-in-a-Box will set the tempo and begin song playback!

Press Play
When you’re ready, just press the [Play] button or the F4 function key and Band-in-a-Box will immediately generate and play a professional arrangement of your song using the settings and the style you selected. You can double click on any bar in the Chordsheet, including the tag or ending, to start playback from that bar.

More fun with Band-in-a-Box
Now you know how easy it is to start making music with Band-in-a-Box, but there are still many more powerful features for you to discover. For a start, you could add a human element to your arrangement with RealTracks and RealDrums.

Add RealTracks and RealDrums
RealDrums and RealTracks add accompaniment by top studio musicians to your songs. RealDrums replace the MIDI Drum track with real recordings of top studio Jazz, Rock, and Country drummers. These are not “samples,” but are full recordings, lasting from 1 to 8 bars at a time, and playing along in perfect sync with the other Band-in-a-Box tracks.

RealTracks instruments include guitars, piano, bass, saxes, trumpet, trombone, pedal steel, fiddle, banjo, mandolin and many more. These tracks replace the MIDI track for that instrument, and can be controlled just like the MIDI instrument (volume changes, muting etc.). Best of all, they follow the chord progression that you have entered, so that you hear an authentic audio accompaniment to your song.

Any track can be converted from a MIDI track into a Real track from the contextual menu on the main screen. Just right click (or Control+click or double click) on the part name to open the menu and then select “Generate RealTrack” (or RealDrums).

You will then be shown a list of all the available instruments and styles to make your selection.
Now it’s time to make music with Band-in-a-Box…

Have Fun!
Welcome to Band-in-a-Box 2010.5

There were over 50 cool new features added in Band-in-a-Box 2010, and now version 2010.5 adds 30 more! These include user wish list requests and enhancements to existing features, plus some wish list requests of our own.

30 New Features!

- The StylePicker now has a filter to show/hide Real or MIDI styles. So if you only want to see MIDI styles, or if you only want to see styles that use some/all RealTracks, you can set this.
- If you like the current mix (of volumes, panning, reverb), and you want this applied as a default for all songs, you can now set this by right-clicking on the Combo radio control. Choose “Make Current Mix the Default,” “Load Default Mix,” or “Reset Mix (to factory defaults).”
- RealTracks naturally occurring pushes are enhanced in many styles. This requires updating the ST2/XT2 files, and these are included in the 2010.5 update.
- When rendering, you can now add a dB amount to the whole mix, so that the mix will be louder or softer. There is automatic peak-limiting added, so that the music will not distort if you set it too high.
- Styles can now be made that are set to use Half Time and Double-Time RealTracks. For example, you can make a Jazz Ballad style (tempo 65) that uses a Sax Soloist at tempo 140 (playing double time).
- If Band-in-a-Box cannot find your RealTracks folder or your Drums folder, a yellow hint message appears at boot up to alert you to that, and tells you how to fix it, “Note: You have RealTracks installed, but none are found in your RealTracks folder. You should point to your correct RealTracks folder in the RealTracks Settings.”
- RealTracks pushes are now played a little quieter (2 dB quieter), so that they don’t stand out as much.
- For RealTracks, many Jazz comping styles now play triads (instead of 7ths) when simple triads are entered, instead of “jazzing them up” to 7ths chords (e.g. Guitar: Freddie, Wes. Piano: some Jazz, all Stride, Rehearsal). If you prefer this “the old way,” where triads are automatically “jazzed up” when comping using Jazz RealTracks, then you can set the RealTracks Settings option to force 7ths for triads.
- Enhancements for entering songs quickly: Typing special words, instead of chord names, will make these settings:
  - begin <Enter> - sets the beginning of the chorus to the current bar
  - end <Enter> - sets the end of the song to the current bar
  - chorusend <Enter> - sets the end of the chorus to the current bar
  - tkc <Enter> - sets key signature to C, tkbb would set it to Bb
  - trc <Enter> - transposes song to key of C
  - t125 <Enter> - sets tempo to 125
- Enhancements for playing songs from the Chordsheet
  - <spacebar> or double click on ending bar (or a bar in the tag), and it will play from the ending (or tag). This only applies to the Chordsheet, since notation windows always play from the ending or tag already.
  - Right-click on the Chordsheet (or notation) to quickly set Chorus Begin, Chorus End, or Song Ending.
  - RealDrums button now has a menu (like RealTracks picker button) to choose RealDrums Preferences or the RealDrums Picker dialog. Ctrl+click to choose the Preferences or Shift+click to choose the Picker directly.
  - The auto-generated song memo now says if RealDrums come from the song or style.
  - A message now appears if a frozen track is loaded, but the required RealTracks or RealDrums folders do not exist.
  - Frozen tracks now start playing faster if played again.
  - In the RealTracks picker, the sort feature for the Set # and Holds # columns is improved.
  - Important change: The default for the tempo swapping feature for RealTracks is now true. It used to be false. Tempo swapping is a nice feature that will automatically substitute a similar RealTracks that is recorded at a tempo closer to the current tempo. For example, if you load a ballad style with a RealTracks piano at a tempo of 60, and then speed the song up to 200, BB’s tempo-swapping feature will choose a RealTracks piano that is closer to 200, likely one that is 190. Go to the RealTracks Settings (RealTracks Preferences) to disable this feature.
  - Band-in-a-Box will keep on generating RealTracks even if some wav files are missing.
  - Changed: File-New gets volumes of 127, instead of 90.
New Features in Band-in-a-Box 2010

Band-in-a-Box 2010 added over 50 cool new features!

These exciting new features were added in Band-in-a-Box 2010. There’s a new “Plug-in” mode, allowing you to simply drag and drop tracks between Band-in-a-Box and your favorite sequencer (GarageBand, ProTools, Logic, Nuendo, Reaper and more). RealTracks generate much faster now, typically 3X faster. RealTracks now support Shots, Holds, and Pushes. Time for generating MIDI arrangement is much faster - now “instantaneous” (less than 1 second). Endings are improved, and RealTracks endings are now 4 bars long, giving time for the natural decay of the instruments. Individual tracks (MIDI or Real) can be frozen now, so the arrangements can be saved and fixed, and will replay quickly without need for regeneration. Soloist RealTracks are now saved with the song. We’ve added Multiple Undo support, up to 999 levels of Undo. There are new Reverb and Bass/Treble controls for each track, allowing you to add these to individual RealTracks. All settings are now saved with each song. And many more!

The New Features in Band-in-a-Box 2010 for Macintosh are...

There is a “Plug-in” mode for your favorite sequencer (GarageBand, ProTools, Logic, Nuendo, Reaper and more). With the new plug-in mode, Band-in-a-Box is open as a small window, and acts as a plug-in for your favorite DAW/sequencer, so that you can Drag-n-Drop MIDI and audio (AIFF) tracks from Band-in-a-Box to your favorite sequencer. Work in your favorite sequencer, type a progression in Band-in-a-Box, and then simply drag the track from Band-in-a-Box to your sequencer's track at the desired track and bar location.

No more long waits for RealTracks to generate! RealTracks generate much faster, 3X faster on average. A typical song with RealTracks that took 20 seconds to generate will now generate in about 5 seconds. And if you freeze some or all tracks in the song (see below), playback of RealTracks is almost instantaneous.

Time for generating MIDI arrangement is much faster - now “instantaneous” (less than 1 second)!

Freezing (locking) MIDI tracks or RealTracks/RealDrums. Any track (MIDI or Real) can now be frozen. When frozen, it won't be changed or re-generated. This saves time when replaying previous songs, and allows you to freeze an arrangement that you like. If you freeze the whole song, you don't have to wait at all for the song to regenerate. Next time you play, it is ready to go.

All Tracks can be Edited and Saved. MIDI tracks for bass, drums, piano, guitar and strings can now be edited, and saved with the file. If you freeze a track, edits can still be made to it, because it is only frozen from Band-in-a-Box making changes to it (you can still edit it), so that the MIDI track will be saved to the file. So you can customize the bass part to match a certain song, and save it with a frozen bass part, so Band-in-a-Box won’t overwrite your edits. This includes RealCharts – if you wanted to edit the notation of a RealTracks solo for example.

Soloist generated RealTracks are now saved with the song, so you will hear the RealTracks play the same solo when you reload the song.

RealTracks now support new features, including Shots, Holds, and Pushes. Simply type in the chords as you normally would, adding periods (...) for shots and holds, and the RealTracks will play them. Note for this, you need the installer that creates a LibraryM/Holds folder in your RealTracks folder.

RealTracks endings have been enhanced, and are now 4-bar endings instead of 2-bar, allowing time for a natural decay of the instruments.

Multiple Undo support. Up to 999 levels of undo (configurable).

Always save all song settings. Now all settings are saved with songs, including patches, reverbs, volume, etc., so that the song will play the same way each time, without having to set this in the Save With Patches dialog.

Reverb control added for individual tracks with RealTracks or RealDrums, so you can easily add reverb (0 to 127) for any RealTrack. Reverb type is also settable, and saved with the song.

Bass/Treble Tone Control added for individual tracks with RealTracks or RealDrums, so you can easily adjust the bass/treble EQ for any RealTrack. Settings save with the song.

Band-in-a-Box window is now sizable, when size changes, chordsheet, notation, and other windows redraw in proportion to the new size. This allows you to have Band-in-a-Box open as a small window on screen with other programs, and you still see a full chordsheet. The screen size is remembered between sessions.

New favorite songs/styles dialog, with separate lists of “recently played” and favorite songs or styles. The previous “favorite” songs/styles dialog was a list of recently used songs/styles. Now there are 2 tabs in this dialog, showing
you both recently used songs/styles, and a new list of “favorites” that you select as a favorite songs or styles. You can add an unlimited number of favorites.

**Double time and half time support for RealTracks added.** Now you can play any RealTracks at half time or double-time. This allows you, for example, in a ballad at a tempo of 70, to add a RealTracks Sax solo with tempo of 140, and play it as a double-time, which will match the ballad tempo of 70. So now all of your existing RealTracks can be used at 3 different tempos (normal time, half time, or double time).

**Tempo swapping of similar RealTracks.** You can use this feature either automatically or manually. If you set “Auto RealTracks substitution based on tempo” to true in RealTracks Settings dialog or Additional Song Settings dialog, Band-in-a-Box will automatically choose the best one to use. For example, if you have a ballad loaded, with an Acoustic Bass RealTracks at a tempo of 60, and you speed up the tempo to 140, and press the [Play] button, Band-in-a-Box will automatically choose an Acoustic Bass RealTracks closer to the tempo of 140, if it is the same genre and feel. This means you can use a simple Jazz style, and play it at various tempos, without having to set the best RealTracks based on tempos. If you don’t want this feature to work automatically, then set “Auto RealTracks substitution based on tempo” to false. The RealTracks that support the Tempo Swapping are listed in the next to last column of the Assign RealTracks to Track dialog.

**RealTracks Picker dialog enhanced:**
- Opens up faster.
- New columns are added (tempo swappable, holds type).

**RealDrums Picker dialog has been enhanced,** with information about Artist name, Artist bio, and RealDrums Set number.

**Rendering now has a Normalize option,** to normalize individual tracks or the complete arrangement. Normalizing boosts the volume to a maximum level without distortion. Most professional music tracks are normalized.

**Songs that are “Saved-As” a different name now** have the new name added to the Recently Played Song dialog.

**Support enhanced for non-concert instruments (Bb/Eb sax, trumpet etc.).** Now when the Chordsheet is transposed, you can type in chords in the transposed key, and they will show up as you have entered them, instead of requiring you to enter the chords in the concert key.

**More Soloists are now available, up to 2000.**

**Many messages changed to “yellow alerts”** at top right of screen, so you don’t have to respond to the message, interrupting workflow.

**Looped playback of any selected region.** On the Chordsheet window (not the notation window), select a region of bars, and press the [Loop] playback button on the toolbar. The selected region will loop. You can change the looped section during playback. Pressing [Loop] button again will turn off looping.

**Mouse scroll wheel support** added to the main window, notation window, and many dialogs.

**Ability to have endings use a “held chord,”** (like C...). (RealTracks and MIDI)

**For songs with no ending, the last chord of the song can be a held chord** (like C...). (RealTracks and MIDI)

**More New RealTracks**

**There are one hundred and one sets of RealTracks available for Band-in-a-Box!**

The basic Band-in-a-Box Pro package includes a basic set of RealCombos for Pop, Country, and Jazz. In addition, there are hundreds more RealTracks instruments available in one hundred and one different sets.

For a full listing with complete descriptions and demo songs, go to [www.pgmusic.com](http://www.pgmusic.com) and see the RealTracks page, [http://www.pgmusic.com/products_realtracks.htm](http://www.pgmusic.com/products_realtracks.htm).

While you’re there, be sure to check for new releases.
QuickStart Tutorial

Using the New Features in Band-in-a-Box 2010 and 2010.5

Quick Song Settings
These are enhancements for entering songs quickly. Typing special words, instead of chord names, will make the following settings:

- `begin <Enter>` - sets the beginning of the chorus to the current bar
- `chorusend <Enter>` - sets the end of the chorus to the current bar
- `end <Enter>` - sets the end of the song to the current bar
- `tkc <Enter>` - sets key signature to C, tkbb would set it to Bb
- `trc <Enter>` - transposes song to key of C
- `t125 <Enter>` - sets tempo to 125

Save Default Mix
If you like the current mix (of volumes, panning, reverb), and you want this applied as a default for all songs, you can now set this by right-clicking on the Combo radio control and choosing **Save Current Mix as Default**.

Load Default Mix restores the default mix you have saved, and Reset Mix sets the mix back to “factory defaults.”

New Chordsheet Controls
In the Chordsheet window, press the `<spacebar>` or double click on the ending bar (or a bar in the tag), and the song will play from the ending (or tag). This only applies to the Chordsheet, since notation windows always play from the ending or tag already.

You can right-click on a bar in the Chordsheet to set it as the beginning or end of the chorus or the end of the song from the settings in the context menu. For example, these settings are available with a right-click on bar 16.

Improved Audio Rendering
When you click on the Audio button to render your song to audio files, there is now an option to boost all files by a certain number of dB. “Boost All Render Files by” adds a dB amount to the whole mix, so that the mix will be louder or softer. There is automatic peak limiting added, so that the music will not distort if you set it too high.
DAW Plug-in Mode

There is a “Plug-in” mode for your favorite sequencer (GarageBand, ProTools, Logic, Nuendo, Reaper and more). With the new plug-in mode, Band-in-a-Box is open as a small window, and acts as a plug-in for your favorite DAW sequencer, so you can Drag-n-Drop MIDI and audio (AIFF, M4A) tracks from Band-in-a-Box to your favorite sequencer. Work in your favorite sequencer, type a chord progression in Band-in-a-Box, drag the track button to the drop station (blue rectangle) at top left of the screen, and then drag that to your sequencer's track at the desired track and the bar location.

The DAW Plug-in mode is a mode within the regular Band-in-a-Box program. This mode allows you to transfer tracks or parts of tracks, to other DAW sequencers or Finder.

You can enter and exit the DAW plug-in mode easily.

Press the [DAW Mode] button on the Toolbar, then choose the menu item “Start DAW Plug-in mode” (or go to Windows menu and choose Plug-in Mode for Sequencer-DAW).

When you do this:

1. Window size of Band-in-a-Box changes to a small size (you can resize it to the size/position that you want, and it will remember that).

2. You can now easily drag tracks from Band-in-a-Box to your DAW in 2-steps. First, drag the track button to the drop station (blue rectangle), and then when it turns green, drag that to your DAW’s track.

You can also drag files to other programs, besides DAW’s, if they accept a drop of audio files (AIFF, M4A) or MIDI files. For example, Finder allows this.

Please see the DAW Plug-In Mode chapter for a full tutorial.

Freeze Tracks

Freezing (locking) MIDI or RealTracks/RealDrums

Any track (MIDI or RealTrack) can now be frozen. When frozen, it won’t be changed or re-generated. This saves time when replaying previous songs, and allows you to freeze an arrangement that you like. If you freeze the whole song, you don’t have to wait at all for the song to regenerate. Next time you play, it is ready to go.

You can make tracks Frozen by pressing the Freeze button (snowflake) on the toolbar, and then choosing which tracks that you want to freeze or unfreeze.

There are a number of reasons that you would freeze a track.

Reasons to Freeze a RealTracks track (audio):

- Frozen tracks will play back instantly, not requiring time to generate.
They play back the same way each time, so if you like a solo, you can “freeze it.”
If you send a song to a friend as “frozen,” they will hear the same performance.
For the Soloist track, if you generate a solo, it can now be saved (by freezing the track).

**Reasons to Freeze a MIDI track:**
- You can edit the MIDI data, to customize the performance to match a certain song, and this will be saved. Use the Notation window or Piano Roll to edit the track.

**More reasons to freeze any track:**
- Frozen tracks play back instantly, without requiring time to regenerate.
- They play back the same way each time.
- You can change the chord progression of the song, and have one part playing a different chord progression than the rest of the band. For example, type a “blowing” chord progression, generate a solo, freeze the solo track, then type a normal chord progression and generate the rest of the instruments (bass, guitar etc.) that will play the normal changes.
- Have different instruments play different styles. For example, the Bass could be generated using Reggae, then Frozen, and then the rest of the instruments generated using a Techno style.

**Un-Freezing a Track(s)**

This is also done by the Freeze button. Choose a frozen track to un-freeze it, or choose “Un-Freeze all tracks.”

**Forcing Generation of a Song that is Frozen**
Band-in-a-Box won’t touch tracks that are frozen. But if you want to change that, without having to Un-Freeze the tracks, you can do this easily.

Hold down the SHIFT key as you press the [Play] button (the fly-by hint will remind you of that), or go to the *Song* menu and choose *Generate (even if tracks are frozen).*

When you do this, the song will regenerate, the tracks will be rewritten, and the song will stay frozen. So if you’re freezing songs to get the instant playback with RealTracks, but get tired of the “same-old” frozen arrangement, just press **Shift+Play**, generate a new arrangement, and press **Save**. Then the new “fresh-frozen” arrangement will play instantly, even with many RealTracks.

A message appears if a frozen track is loaded, but the required RealTracks or RealDrums folders do not exist.

**Tip:** Obviously you wouldn’t use this feature to force regeneration of a frozen song if you have made custom edits to the song that you don’t want to lose, unless you’ve saved the song and have a backup copy.

**All Tracks can be Edited and Saved.**
MIDI tracks for bass, drums, piano, guitar and strings can now be edited, and saved with the file. If you freeze a track, edits can still be made to it, because it is only frozen from Band-in-a-Box making changes to it (you can still edit it), so that the MIDI track will be saved to the file. So you can customize the bass part to match a certain song, and save it with a frozen bass part, so that Band-in-a-Box won’t overwrite your edits. This includes RealCharts – if you wanted to edit the notation of a RealTracks solo for example.

To edit a MIDI track (bass, drums, piano, guitar, strings), or the MIDI part of a RealTracks that has a RealChart (MIDI transcribed solo), simply open up the Notation window (or Piano Roll window), and click on the track and edit it. Make sure to Freeze the track by pressing the Freeze button and choosing Freeze for that track, or right-clicking on the instrument at the top of the screen and choosing Freeze. Now your edited tracks will save with the song.

Multiple Undo Support.
Up to 999 levels of Undo are supported (configurable). The default number of undos is 99. If you need to change this, it can be done in Preferences “Number of Levels of Undo.” The range can be 5 to 999. You can also choose Edit | Redo to redo an undo.

RealTracks Enhancements

No more long waits for RealTracks to generate!
RealTracks generate much faster, 3X faster on average. A typical song with RealTracks that took 20 seconds to generate will now generate in about 6 seconds. And if you freeze some or all tracks in the song (see below), playback of RealTracks is almost instantaneous.

This “speedup” feature works “automatically;” you should just notice that generation of RealTracks is much faster. This feature uses CPU resources during playback. If you have a multi-core machine, you may not notice this at all, since it will use different cores than the main Band-in-a-Box thread. If you have an old machine, low on memory, slow hard drive etc., you can disable this “speedup” feature. This will insure that your machine is doing less CPU work during playback. This is done in RealTracks Settings dialog.

Optional Jazz Triads
For RealTracks, many Jazz comping styles now play triads (instead of 7ths) when simple triads are entered, instead of “jazzing them up” to 7ths chords (e.g. Guitar: Freddie, Wes Piano: some Jazz, all Stride, Rehearsal).

Soloist generated RealTracks are now saved with the song, so you will hear the RealTracks play the same solo when you reload the song.

When you generate a solo using RealTracks, Band-in-a-Box will remember this, and when you go to save the song, Band-in-a-Box will ask you if you want to save that solo (and thereby freeze the Soloist track). If you say yes, then the solo will play instantly the same way when the song is reloaded. Of course you can freeze the soloist track yourself at any time. Note that only one solo can be saved. You can’t generate a bunch of different segments of solos; only the last one will be saved.

Shots, Holds, and Pushes
RealTracks now support new features, including Shots, Holds, and Pushes. Simply type in the chords as you normally would, adding periods (…) for shots and holds, and the RealTracks will play them.

The “H” column of the RealTracks Assign dialog tells whether the RealTrack styles supports Shots, Holds, and Pushes. If the column is blank, the selected RealTracks style has Holds, Shots, and Pushes available. If there is an “n,” holds are available from PG Music but not installed. If there is a “-,” no holds are available for this style.
Assuming that you have the Holds files for the RealTracks that you are generating, then you just use Band-in-a-Box as you would normally, and type chords with shots (e.g., C.), holds (C…) or pushes (C^ or ^C for 8th or 16th note push), or combinations of push and hold (C^...).

RealTracks naturally occurring pushes are enhanced in many styles. This requires updating the ST2/XT2 files, and these are included in the 2010.5 update. RealTracks Pushes are now played a little quieter (2 dB quieter), so that they don’t stand out as much.

4-bar Endings

RealTracks endings have been enhanced, and are now 4-bar endings instead of 2-bar, allowing time for a natural decay of the instruments.

By “4-bar-endings” we are referring to a 2-bar ending that has two additional bars to allow for the natural decay of the audio instrument (instead of being quickly faded out). To add the 4-bar ending support, you need to have updated ST2 and XT2 files for the RealTracks. We are releasing many of these updated files with the 2010 release, and will have free patches for the older RealTracks as they become available.

4-bar-endings are on by default. So if any of the RealTracks have 4-bar endings, then the arrangement will play as a 4-bar ending.

You can disable 4-bar endings:
- either globally using RealTracks Settings dialog,
  ![Use 4-bar endings for Songs with RealTracks]
- or on a song-by-song basis, using Additional Song Settings dialog (Song | Additional Song Settings).
  ![Use 4-Bar Ending for RealTracks]

Currently, the only way to tell if a RealTracks has a 4-bar ending, is to either try it and see, or to look in the Select Soloist dialog (Soloist | Generate and Play a Solo), and see the name of the ST2 file (under the term database at the top right). Then check the date of the ST2 file. If it is Nov. 2009 or newer, then it should have a 4-bar ending.

Check our pgmusic.com web site, as we are releasing free upgrade patches to add 4-bar endings to most of the RealTracks styles.

Audio Reverb

Reverb control added for individual tracks with RealTracks or RealDrums, so you can easily add reverb (0 to 127) for any RealTrack. Reverb type is also settable, and saved with the song.

At the top of the screen, there is an “A.REV” (Audio Reverb) control. Click on an instrument radio button, and then set the Audio Reverb for it.

Note that this only applies to RealTracks, since MIDI tracks have MIDI Reverb, which is set via a “REV” control.

The Audio Reverb varies from 0 to 127. Adjust the value by clicking a key on the on-screen piano keyboard. Or right-click (or control-click) the control to enter a value. See the RealTracks and RealDrums chapter for more about this feature.

There is also a feature that automatically adds reverb to RealTracks, according to instrument type. (No Reverb is added to Bass for example, but most instruments get reverb.)

This feature defaults to on, but you can turn it off in RealTracks Settings or Reverb Settings dialog.

If you just want more or less added, you can adjust the “Strength %.” For example, the default adds a reverb of 40 to most tracks, but if you set the strength to 75%, then 30 will be added.

You can also set the type of reverb. The default is a “room” type of reverb.
To do this, press the Audio Reverb button, and adjust the various parameters.

You can then save your reverb types as presets, and the current settings will also be saved with the song. The presets all are saved to a PGReverbSettings.bin file in Band-in-a-Box/Preferences folder.

You can enable/disable Reverb. If you disable it, this will save some CPU cycles, so this might be advisable on an older/slower machine, if you hear that the audio is clicking or not keeping up.

Bass/Treble Tone Control has been added for individual tracks with RealTracks or RealDrums, so you can easily adjust the bass/treble EQ for any RealTrack. The settings are saved with the song. Choose an instrument (bass/drums/piano/guitar/strings/melody) and then use the “TONE” control to adjust the tone from -18 (maximum bass) to +18 (maximum treble). Default is 0.

Double time and half time support for RealTracks

Now you can play any RealTracks at half time or double time. This allows you, for example, in a ballad at a tempo of 70, to add a RealTracks Sax solo with a tempo of 140, and play it as double time, which will match the ballad tempo of 70. So now all of your existing RealTracks can be used at 3 different tempos (Normal Time, Half Time, Double Time).

You can control when/how RealTracks would play. To do this, open the Assign RealTracks to Track dialog and use the “Timebase” combo box.
Tempo swapping of similar RealTracks

You can use this feature either automatically or manually. If you set “Auto RealTracks substitution based on tempo” to true in RealTracks Settings dialog or Additional Song Settings dialog, Band-in-a-Box will automatically choose the best one to use.

The default for the tempo swapping feature for RealTracks is now true. It used to be false. Tempo swapping is a nice feature that automatically substitutes a similar RealTracks recorded at a tempo closer to the current tempo.

For example, if you have a ballad loaded, with an Acoustic Bass RealTracks at a tempo of 60, and you speed up the tempo to 140, and press the [Play] button, Band-in-a-Box will automatically choose an Acoustic Bass RealTracks closer to the tempo of 140, if it is the same genre and feel. This means you can use a simple Jazz style, and play it at various tempos, without having to select the best RealTracks based on tempos. The RealTracks that support the Tempo Swapping are listed in the next to last column of the RealTracks Assign dialog.

For example, if we load in a Ballad Jazz style like _BALFRED.STY, we can see that the name of the Bass RealTracks style has a tilde (~) symbol at the beginning. That indicates that it could be changed to a different RealTracks at a higher tempo.

Now let’s increase the tempo of the song to a higher tempo, like 115.

We will see that the name of the RealTracks switches to a different RealTracks, suitable for tempo =110.

So when you press the [Play] button, you’ll hear the RealTracks closest to your tempo, without having to do anything to make this happen.

If you don’t want this feature to happen automatically, then set “Auto RealTracks substitution based on tempo” to false. Then, if you have similar RealTracks available at different tempos, Band-in-a-Box will simply tell you there is a better one to choose.

The “T” column of the RealTracks Assign dialog shows which RealTracks are eligible for Tempo Swapping. The tempo swapping only occurs if you have the RealTracks in your installation.

RealTracks Picker dialog enhanced.
- Opens up faster.
- New columns are added (tempo swappable, holds type).

RealDrums Picker dialog has been enhanced with information about Artist name, Artist bio, and RealDrums Set number.
The RealDrums button now has a menu (like the RealTracks button) to choose the RealDrums Picker Dialog, Shift+click, or the RealDrums Preferences, Ctrl+click.

New Favorite Songs/Styles Dialog

There’s a new dialog for these favorites with separate lists of “Recently Played” and “Favorite” songs or styles. The previous Favorite Songs/Styles dialog was a list of recently used songs/styles. Now there are 2 tabs in this dialog, showing you both recently used songs/styles, and a new list of “favorites” that you select as favorite songs or styles. You can add an unlimited number of favorites.

The “F” button launches the Favorites / Recently Played dialog.

The “Favorites” and “Recently Played” Radio buttons toggle between a list of your recently played songs (or styles), and your Favorite songs (or styles).

The favorites list will start off as an empty one, but you can add songs/styles as your favorites, by clicking the [Add Favorite] button. (This button is also found in the StylePicker.)

Technical Note: The list of songs/style favorites is stored in a text file called SongFavorites.txt (or StyleFavorites.txt) in the Band-in-a-Box folder.

Always save all song settings.

Now all settings are saved with songs, including patches, reverb, volume etc., so the song will play the same way each time, without having to set this in the Save Patches and Harmonies with Song dialog.
If you keep the default setting of “Save all settings with Songs,” you will find that all settings are saved, and loaded with each song. You shouldn’t have to visit this dialog, unless you have some custom items that you want to not-save with the song.

Note that if you set a MIDI patch for one of the bass/drums/piano/guitar/strings parts, that if you load in another style, Band-in-a-Box will overwrite your patches with the style patches. If it didn’t do that, you would be stuck with the same patches regardless of the style. So if you want a certain patch for a track, set it after you have loaded in the style that you want.

Songs that are “Saved-As” with a different name now have the new name added to the Recently Played Song dialog.

Rendering Tracks

When you click on the Audio button to render your song to audio files, there is now an option to boost all files by a certain number of dB. “Boost All Render Files by” adds a dB amount to the whole mix, so that the mix will be louder or softer. There is automatic peak limiting added, so that the music will not distort if you set it too high.

Rendering now has a Normalize option, to normalize individual tracks or the complete arrangement. Normalizing boosts the volume to a maximum level without distortion. Most professional music tracks are normalized.

To enable this, in the Render to Audio dialog, set the “Normalize Rendered Files” option to true.

Rendering songs to audio is now much faster for songs with no MIDI, such as RealStyles.

StylePicker Enhancements

Favorites and Recent styles now appear in this dialog as separate lists. It now has the ability to add/remove styles as favorites. A Favorite Style indication (F) shows up for each style. You can filter any list by only showing favorite styles. You can build up a list of favorite styles, and only show them when needed.

The favorite styles are the ones that you’ve identified as favorites, either by pressing the [Add Favorite] button in the Favorite Styles dialog, or the similar button in this StylePicker dialog. Note that an “F” appears beside the name of any style that is a favorite.

You can make any style a favorite by clicking the [Add Favorite] button. If you want to remove it, click the button again.

“Only Show favorites” will only show the favorite styles in any list that you have opened.

The StylePicker now has a filter to show/hide Real or MIDI styles. So if you only want to see MIDI styles, or if you only want to see styles that use some/all RealTracks, you can set this.
New in the StyleMaker

In the Misc. Style Settings dialog (User | Edit Existing User Style [Patch]) there is a new Timebase option that allows styles to use Half Time and Double Time RealTracks.

For example, you can make a Jazz Ballad style (tempo 65) that uses a Sax Soloist at tempo 140 (playing double time).

And much more…

Band-in-a-Box window is now sizable. When size changes, chordsheet, notation, and other windows redraw in proportion to the new size. This allows you to have Band-in-a-Box open as a small window on screen with other programs, and you still see a full chordsheet. The screen size is remembered between sessions.

To resize the window, just use the sizing control at the bottom-right corner of the window. Hold down the mouse button while you drag the sizing control.

Support enhanced for non-concert instruments (Bb/Eb sax, trumpet etc.).

Now when the Chordsheet is transposed, you can type in chords in the transposed key, and they will show up as you have entered them, instead of requiring you to enter the chords in the concert key.

More Soloists are now available, up to 2000.

Many messages changed to “yellow alerts” at top right of screen, so you don’t have to respond to the message, interrupting workflow.

Have fun!
Chapter 4: The Main Screen

Main Screen Overview
The main screen gives direct access to the major features and program settings of Band-in-a-Box for ease and convenience during a session.

There are five different areas on the main screen.

1. The **Status Bar** is used to show program running status messages and path names of the currently loaded song.
2. The **Synth Window** is the area between the Menu Bar and the Piano Keyboard where Instruments patches are set and levels are adjusted. It also includes buttons for adding harmonies to the Melody, Thru, or Soloist parts.
3. The **Tool Bar** area under the Piano Keyboard has buttons for direct access to important program features and menus. Hold the mouse cursor on any button to see a pop-up hint that describes its function.
4. The **Title Window** shares the Tool Bar area. In addition to the song title, it includes all the other settings for the song such as its Key Signature, Tempo, and Chorus settings.
5. The **Chordsheet Area** occupies the lower part of the screen. Chord changes for the song are typed into the numbered bars (cells) in the sheet. Part markers (a, b, c, etc.) are entered here to switch between Band-in-a-Box substyles.

To resize the window, just use the sizing control at the bottom-right corner of the window. Hold down the mouse button while you drag the sizing control.

This allows you to have Band-in-a-Box open as a small window on screen with other programs, and you still see a full chordsheet. The screen size is remembered between sessions.

**Personalizing the Main Screen**

Macintosh themes are supported.

You can choose different colors for the Chordsheet area of the screen, and you can also choose to use larger fonts for the chord display. These two settings are found in the **Preferences 2** dialog.

Support for larger screen sizes allows the program to fill the entire screen. There are also options to restrict the screen size to a certain size. To force the screen size to a certain size, use the **Preferences** “Limit Screen size to” item.
Status Bar

The first thing to note is that the name of the song that is open is identified in the window title at the top of the screen along with the name of the style. This feature is handy when you want to know the status (and the title) of your song and the style in use at a glance. You'll also see the length of the song in minutes and seconds, this updates if you change the tempo and press the [Play] button.

The file name in the status bar will have an asterisk * added if the file has been changed.

Synth Window / Piano Keyboard

The Piano Keyboard

This keyboard displays the notes that are being played by all instruments on various parts of the piano keyboard during playback (except drums). The name of the currently selected part is shown just above the keyboard.

When playing along or recording on the MIDI Thru the notes are displayed on the keyboard.

Synthesizer Window

Part Settings

The Bass/Piano/Drum/Guitar/Soloist/Strings/Melody and Thru buttons are referred to as Parts. Settings that can be changed for an individual part include Reverb, Chorus, Pan, Bank, Volume, and Instrument. To change a setting for one of the parts:
- Select the Part by mouse clicking on the part name.
- Change the desired parameter to affect the new setting.

The Instrument Panel shows the current instrument for the selected part.

You can access your patches with ease through the "patches popup" menu. To access this menu, simply click on the instrument box you would like to change (i.e. Piano, Bass, Sol, etc.), move your mouse pointer over the instrument panel box (i.e. Piano: (1) Acoustic Piano), and click anywhere on the instrument name. Then select the new patch from the popup menu.

Clicking on the up ▲ and down ▼ arrows will move up and down the list of instrument patches one at a time.

The Favorite Instrument panel allows you to assign up to 10 of your favorite instruments for each of the 8 parts (Bass, Piano, Drums, Guitar, Strings, Melody, Soloist, and Thru). Once assigned, these instruments can be quickly and easily set.

Always use General MIDI instrument numbers, even if you use a custom patch map. It will handle the conversion to your synth’s non-GM patch numbers, so you should always enter GM patch numbers for the favorite instruments.

(Favorite Instruments)
Selecting Favorite Instruments (Patches)
To select a Favorite Instrument for a particular part, you need to select the instrument part by clicking on the desired part.

Then click on one of the 10 Favorite buttons.

The Favorite Instrument that was assigned to one of the numbers between 1 and 10 will appear in the Instrument Panel.

Selecting Favorite Combos
To send one of the Favorite Combo patch changes, you need to select the “Combo” part by clicking on the Combo button.

Then click on one of the 10 Favorite buttons.

The Favorite Combo that was assigned to one of the numbers between 1 and 10 will appear in the Instrument Panel.

This section allows you to adjust the settings for Reverb, Chorus, Panning, Bank, and Volume, Audio Reverb, and Tone for instrument parts. Click on the top half of a number to raise it by one, and on the bottom half to reduce it by one. Or click on the vertical bars to the right of the number box to raise/lower the setting in increments of 5.

You can also select a control and assign it a number value by clicking a key on the piano keyboard. The value will correspond to the MIDI note number, from 0 to 127, that you click.

Higher Bank Patches
The [+1] button on the instrument selection panel will give you easy access to patches on higher banks. These are selected from a .PAT file that corresponds to your synth or sound module.

We have included many .PAT files in the Synth Kits folder.

Press the [+1] button to launch the **Patches on Higher Banks** dialog. To narrow your search you can do one or all of the following:

- Open the Patch list and select an instrument (i.e. Electric Bass, Acoustic Piano, etc.)
- Click on the “Include Family” checkbox to have other offerings of similar type shown. (i.e., all Bass family patches, all keyboard family patches, etc.)
- Find a patch by keyword by clicking the [Search..] button and typing some letters that you know are in the name, e.g., “mando” will find your mandolin patch and any others containing “mando.”

**Note:** You can open a new patch file by pressing the [Open *.PAT...] button. You can also customize the names and descriptions of the patch list to suit your tastes by pressing the [Edit...] button and editing a small text file. Press the [Update] button for your changes to take effect. You can also open this window by selecting the **M | Choose Patch from Higher Bank** menu item at the bottom of the menu.

### Description of the Wizard

**The Wizard** is an intelligent play along feature that uses your QWERTY keyboard to play along with Band-in-a-Box. This also allows you to record to the melody or soloist track without an external MIDI keyboard, and can even be used to trigger the Soloist Wizard. Also, play along using the Wizard can use the harmony feature, so you can play along live from your QWERTY keyboard in 4-part Saxophone harmony for example.

#### Turning the Wizard On/Off

Click on the [Wz] box to turn the Wizard feature On/Off, or select the **Wizard Playalong** option from the **Song** menu, or press **Option+W**. The Wizard is only active during playback.

#### Playing the Wizard

The Wizard keys are active during playback. The active keys are the lower 2 rows of the keyboard.

- **A S D F G H J K L ;’** ← This row plays PASSING tones (2nd, Fourth, Sixth)
- **Z X C V B N M , /** ← This row plays CHORD tones (root, 3rd, Fifth, Seventh)

#### Changing Instruments / Settings For The Wizard

The Wizard is a play along instrument, so is treated just like the THRU instrument. Changing Instruments/Volume/Reverb etc. for the Wizard is therefore the same as for the THRU instrument. (i.e., Click on the THRU button, then select instrument etc.) You can record the Wizard and it will use THRU harmonies if selected.

#### Play Regular Notes

There is now an option to play regular “non-smart” notes, for those of you up to the task of poking out actual melodies on your QWERTY keys.

In the **Song** menu, toggle **Wizard Uses 'Smart' Notes** “Off” (unchecked) to have the Wizard provide you access to a chromatic scale, and toggle “on” to have Band-in-a-Box provide you with notes based on the chord/key of the song.

#### Soloist Wizard

Additionally, you will find another great Wizard feature in the **Soloist** menu, the **Solo Wizard**. Toggling this option “on” enables the Soloist Wizard. As you play notes on the MIDI or QWERTY keyboard, the program will play “correct” notes in the style of the current Soloist! This means that you can play a perfect solo every time, simply by pressing any key on your MIDI keyboard or QWERTY keys.

Beyond impressing your friends with your newfound improvisational prowess, this feature has practical implications as well. For example, you can concentrate on practicing your solo phrasing and playing “in time” without concerning yourself with which notes to play. (Band-in-a-Box will supply the correct notes; see the next section for details.)

#### Recording Using the Wizard

To record the Wizard, press the **[Record]** button to record, and play the Wizard. This will be recorded. You can use the feature of recording the Wizard to enter music without a MIDI keyboard that doesn't sound as stiff as most music entered in step time. This is how it works:

- Press **[Record]** to record.
- As the song plays, play the melody that you want on any Wizard key, using the same key for each note, in the rhythm of the melody. The Wizard notes won't be the exact melody, but don't worry about that as you record.
- When you're finished, go to the Notation window. You now have the notes with the correct durations and times, but the wrong pitches.

**Chapter 4: The Main Screen**
One by one drag the notes up to the correct melody note, holding down the Shift, Control, and Command key for sharps, flats, and naturals respectively. You'll then have entered a melody that sounds like it was recorded from a keyboard, without the stiff sound of a melody entered in step time!

**Note:** If you have the wizard on, the SPACEBAR won't stop playback. You need to press ESCAPE to stop playback if the Wizard is on. This is because people mistakenly hit the spacebar while playing the wizard, which would stop the song inadvertently.

The Embellisher

Click on the Embellisher checkbox to enable live embellishment of the Melody or Soloist part during playback.

When musicians see a lead sheet that has a melody written out, they would almost never play it exactly as written. They would change the timing to add syncopation, change durations to achieve staccato or legato playing, add grace notes, slurs, extra notes, vibrato, and other effects.

If you enable the Embellisher, any Melody will get embellished as it is played so that you hear a livelier, more realistic Melody - and it's different every time.

Click on the Embellisher toolbar button to open the **Melody Embellisher** dialog.

The Memo shows the current embellishments that have been applied. You can change settings and redo the embellishment, or you can make the current embellishment permanent.

The Embellisher is only active while the music is playing, it doesn't permanently affect the Melody track. There is an option to make the Embellishment permanent, so that if you like a certain embellishment you can add it to the Melody track. This is especially useful to spice up songs that have been entered in step time with “robotic” velocities and durations of notes. Using the Embellisher makes it sound like a person was playing instead of a computer!

**Toolbars**

The main toolbar extends the full width of the screen. (It is divided in two here.)

- The [New] button clears the Chordsheet to start a new song. Band-in-a-Box reminds you to save your work before it erases the chords.
The [Open] button is used to open (load) songs into the program from the Open File dialog.

The [Save] button is used to disk.

This saves the song, allowing you to choose or confirm the name and location for the file save.

The [Save +] button opens the Assign Instruments and Harmonies to Song dialog where custom patches, harmonies, and other settings can be permanently saved with the song.

Use this button to Start/End DAW plug-in mode and choose options such as “Allow Drag and Drop.” In plug-in mode, Band-in-a-Box is reduced to a small window and acts as a plug-in for your favorite DAW/sequencer.

The [.MID] button allows you to make a Standard MIDI File and save it to disk as a file with extension .MID. Type 0 and Type 1 MIDI files are supported, or you can also choose to save the song as a Karaoke file with the .KAR extension.

This is the “Render to WAV file” button, which will convert (render) your MIDI arrangement to an audio wave file. It includes a batch render feature to convert an entire folder of songs in a single operation.

Transport Controls
These buttons are like the transport controls on a CD player or a media player.

[Play] button generates a new arrangement and plays the song.
[Loop] plays the selected (highlighted) section of the Chordsheet in a loop.
[Replay] plays the song from the beginning without creating a new arrangement.
[Stop] button stops the song or the Jukebox from playing.
[Pause] button pauses the song during playback.
[From] button is used to play a song starting anywhere in the song, including tags or endings.
[Rec] button records MIDI from an external keyboard or the Wizard to the Melody track.

This opens the RealDrums Picker, where you can assign audio drums to replace the MIDI drums with a real drummer.

This opens the Assign RealTracks to Tracks dialog. RealTracks are audio instruments other than drums, such as RealPedalSteel, RealAcousticGuitar, and RealSax.

The [Melodist] button opens the Generate Chords and/or Melody dialog, where you can choose the type (or genre) of Melodist you wish to have generate a complete new song with chord changes and melody as well as an improvised solo and an original song title.

The [Soloist] button opens the Select Soloist Dialog, where you can choose the Soloist you wish to have play over any given chord changes.

This button opens the Notation window, where you can edit, view, and print MIDI notation.
Use the Print button to launch the **Print Options** dialog and print the currently selected track of notation.

Displays the notes being played on a virtual guitar fretboard. Select the track that you want to display.

The Drum button launches an animated virtual Drum Kit window. Play along or watch drums light up as they are played.

The [Intro] feature creates a chord progression that gets inserted as an introduction for the song.

The Audio Chord Wizard program (/Applications/Band-in-a-Box/Audio Chord Wizard) automatically figures out the chords from audio files such as MP4, M4A, AIFF, WAV, and CD audio.

The [Pref] button will bring up a Preferences dialog where you can set various settings and access program options.

This button sends out an “all notes off” message to your MIDI or software synthesizer. It functions as a “panic” button to stop a hung or stuck note.

This opens up the pgmusic.com website to the page with video tutorials for learning Band-in-a-Box.

Opens the Band-in-a-Box PDF manual, which is in the /Manuals folder.

### Additional Toolbar buttons

When playing songs in the Jukebox, this arrow will jump back to the previous song in the list.

The Jukebox plays a folder of songs according to the specified options. The [JukeBox] button is used to start or stop the Jukebox.

When playing songs in the Jukebox, this arrow will jump ahead to the next song in the list.

This button resets General MIDI devices by sending a GM mode On message and then setting up the Band-in-a-Box patches.

This launches a Finder folder in the current song folder. You can open up songs by double-clicking on songs from the finder.
This opens the previous song in the folder in alphabetical order.

This opens the next song in the folder in alphabetical order.

This allows you to freeze any or all tracks so that Band-in-a-Box will not overwrite them with new arrangements. Tracks play back instantly. You can still edit the tracks yourself.

This launches the Reverb Settings dialog with setting for the type and amount of reverb to use. These settings apply only to the RealTracks, as there is a separate MIDI reverb control.

The Reharmonist creates a chord progression based only on the melody of the song. It can also reharmonize existing chord progressions.

The grace note button opens the Melody Embellisher dialog for customizing the Melody Embellisher.

Press the ChdSolo button to launch the Generate Guitar Chord Solo dialog. Based on the existing Melody track, this generates a guitar chord solo using correct guitar fret positions.

This button connects to the www.pgmusic.com web site.

The Song Title button auto-generates a song title for the current song. Each time it is pressed, a new title is generated.

This launches the Chord Builder window. Chords may be auditioned and then entered into the Chordsheet by clicking in the menus in this dialog.

Use these buttons to jump to the next page in the Chordsheet. Each page is 64 bars, for a total of 256 bars.

**Title Window**

In the Title window you can create a Song Title, change the Style of the song, change the Key Signature the song is using, define the Tempo of the song, define where the Chorus begins and ends and how many Choruses the song has. To change these settings, click on the setting you wish to change.

**Favorite and Recently Played Songs and Styles**

The [F] buttons beside the song title and style name launch the Favorites / Recently Played dialog. This allows you to quickly load songs and styles that have been used in your last sessions with Band-in-a-Box.
You may find this to be the best way to load songs into Band-in-a-Box, since the lists give you instant access to the songs you are most likely to be playing, regardless of where the song is located on your hard drive. *(File | Open Favorite Songs... or Shift+F3 also opens this window.)*

The dialog for these favorites has separate lists of “Recently Played” and “Favorite” songs or styles.

The “Favorites” and “Recently Played” Radio buttons toggle between a list of your recently played songs (or styles), and a list you create of your favorite you select as favorite songs or styles. You can add an unlimited number of favorites.

The favorites list will start off as an empty one, but you can add songs/styles as your favorites, by clicking the [Add Favorite] button. *(This button is in the StylePicker too.)*

**Technical Note:** The list of songs/style favorites is stored in a text file called SongFavorites.txt (or StyleFavorites.txt) in the Band-in-a-Box folder.

If “Play When Chosen” is checked the program will load and play a song when you either double-click on its name in the list or select the name and the click [OK].

Check “OK To Add recent files...” to allow your recently loaded songs to be added to this list.

The [Search] button lets you search the Favorite Songs list by typing in part of a file name.

Press the [Song] button (or Ctrl+F3) to launch the Select song by Title window, described in full elsewhere in this manual.

**Tip:** Click the “Play when selected” checkbox at the bottom of the song list window to have Band-in-a-Box play your song immediately upon selection.
Like the favorite songs button, the favorite styles button [F] activates dialogs with “Favorites” and “Recently Played” Radio buttons that toggle between a list of your recently played styles and your favorite songs styles.

Click the “Play When Chosen” checkbox to have Band-in-a-Box play your song immediately upon selecting a style. The menu command User | Open Favorite Styles... or hot keys Shift+F9 also open this window.

You get to the StylePicker window by pressing the [Style] button or with the keystrokes Ctrl+F9. This feature is fully explained elsewhere in this manual.

This is the song memo button. A red border indicates that the song has a memo. There are automatically generated memos describing the song, and you can type in your own memos too.

This opens the Additional Song Settings dialog with settings that apply to the current song for rests, pushes, tags, endings, and fadeouts.

**Harmony Area**

The Harmony area displays the current Melody and Thru Harmony.

The [M] button is for Melody Harmony - in this case, it’s set to trumpet/trombone (3rds) harmony. Whatever the melody plays will come out with trumpet/trombone harmony in thirds. Pressing the [f] button allows you to choose from a list of only your most frequently used harmonies. Pressing the [M] button allows you to choose from the full list of harmonies. The F10 key disables the Melody harmony.

The [T] button is for Thru harmony. Whatever you play along on your MIDI keyboard while the song is playing will be auto-harmonized in real time - in this case using a Tenor Banjo type harmony. Pressing the [f] button allows you to choose from a list of only your most frequently used harmonies. Pressing the [T] button allows you to choose from the full list of harmonies. The keystrokes Ctrl+F10 disable the Thru harmony.

**Chordsheet Area**

The basic way of entering a song in Band-in-a-Box is by typing in the chords to the song using the computer keyboard. Chords are typed in using standard chord symbols (like C or Fm7 or Bb7 or Bb13#9/E).

Chords can be cut, pasted, and copied from one location to another.

Another way of entering chords is through MIDI chord recognition. Play any chord on your MIDI keyboard; and Band-in-a-Box will recognize it instantly and insert it onto the Chordsheet. This allows you to enter an entire song without having to type in any of the chords!

To use this feature, select the Insert current MIDI chord from the MIDI menu. Ctrl+Enter is the keystroke combination for this function.

The chord you choose will automatically be inserted into your song (Chordsheet or notation view) at the current cursor location. Then, Band-in-a-Box is ready for the next chord. You can insert up to two chords per bar in this fashion.

**Chord Display Modes**

In addition to the Standard Notation window, you can also enter or display chords in Roman Numeral notation, Nashville notation, Solfeggio notation, or Fixed Do notation.
For example, the chord Gm7 in the key of F would be displayed as IIm7 (in Roman Numeral Notation), 2m7 (in Nashville Notation), and Re m7 in Solfeggio. In Italy and other parts of Europe, chords like C7 are always referred to by the Solfeggio name (“Do 7” for C7) regardless of the key signature.

These systems are very useful for learning or analyzing tunes, because they are independent of the key signature.

This setting is made in the “Chord Display Type” list box in the Preferences dialog.

When a new notation mode is selected, a message will report the change on the main screen. Click anywhere in the message box to close it.

Part Markers

Style variations for your arrangement are entered in the Chordsheet by clicking on a bar number to set a part marker. Each click toggles to the next available substyle part marker (a, b, etc.) or removes the part marker. Regular styles have two substyles, and Band-in-a-Box MultiStyles have four substyle variations – a, b, c, and d.

Adding Substyles in a Song

You can add more substyles to an individual song with a right-click on any bar number. This opens the Substyle Change Menu where you can define up to 24 substyles, from “a” to “x.”

Making a MultiStyle

You can make your own MultiStyles from existing styles in the StyleMaker, which opens with the menu commands User | Make A New Style (STYLE MAKER and User | Edit Existing User Style or with the hot keys Option+Y.

From within the StyleMaker, press the [PATCH] button. The Misc. Style Settings dialog box opens. Look for the “Multistyle(s)” box.

Enter the name of a style, such as zzjazz, or multiple styles separated by semicolons, for example zzjazz;zzbossa and these will appear as MultiStyles, substyles c/d/e/f etc.
You can click on the [STY] button to choose the styles for your MultiStyle from the StylePicker window.

**Chordsheet Editing Features**

The chordsheet has a contextual menu that opens with `Control+click` or a right-click in the Chordsheet area. This menu is a very convenient way to access the features for editing song arrangements.

<table>
<thead>
<tr>
<th>Copy</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Copy from __ to __ ...</td>
<td>[Opt C]</td>
</tr>
<tr>
<td>Paste</td>
<td>[cmd v]</td>
</tr>
<tr>
<td>Cut</td>
<td>[cmd x]</td>
</tr>
<tr>
<td>Erase Chord</td>
<td>[ delete ]</td>
</tr>
<tr>
<td>Chord Builder...</td>
<td>[ctrl sh h]</td>
</tr>
<tr>
<td>Play Current Chord</td>
<td>[Sh Enter]</td>
</tr>
<tr>
<td>Chord Settings...</td>
<td>[opt z]</td>
</tr>
<tr>
<td>Bar Settings for Bar 16...</td>
<td>[F5]</td>
</tr>
<tr>
<td>Song Settings...</td>
<td></td>
</tr>
<tr>
<td>Preferences...</td>
<td>[opt P]</td>
</tr>
</tbody>
</table>

Chords can be copied, pasted, cut, or erased and new chords can be entered from the Chord Builder.

The Chord Settings allow pushes, rests, and pedal bass to be applied.

The Bar Settings let you refine your arrangement with changes in tempo, meter, key signature, styles, RealDrums, volume levels, patches, and harmonies.

Song Settings allow rests and pushes, and also control tags, endings, and fadeouts.

Global system settings are accessed in the Preferences.

You can also right-click on a bar in the Chordsheet to set it as the beginning or end of the chorus or the end of the song from the settings in the context menu.

For example, these settings are available with a right-click on bar 16.

This menu can be used to start playback from the highlighted bar in any chorus of the song.

**Play Song from Chordsheet**

Songs can be played from any location in the Chordsheet with a double click on any bar. Playback will start at the bar where the mouse is clicked.

If a tag or an ending is defined, press the `<spacebar>` or double click on the ending bar (or a bar in the tag), and the song will play from the ending (or tag). This only applies to the Chordsheet, since notation windows always play from the ending or tag already.
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You can arrange, record, save, and print your own song ideas with Band-in-a-Box. Just type in the chords to any song; choose a style and press [Play] to hear the “band” play a full arrangement. Have some fun by changing to different styles. For even more fun record a MIDI Melody – or have Band-in-a-Box write a Melody for you. Add Harmony, an automatically improvised Soloist, an Intro, and print out a lead sheet and play along.

Loading and Playing Songs

Band-in-a-Box has a number of menu commands to open song files, such as the File | Open song, with several different filters, or Song | Go (Open and Play). The SongPicker opens with the File | Open Song by Title menu command, which launches the Select Song by Title dialog.

Band-in-a-Box songs with the .SGU file extension are backup arrangements with no melodies. Songs with a MIDI melody track have the file extension .MGU.

Select a folder and open a song in the Open Song dialog. It’s even more convenient to just click on the main screen [Song] button to Select Song by Title from the list of songs in the current folder. This SongPicker list can include up to 25,000 songs.

Use the [Folder] button to select another folder, for example, to select from all of your RealTracks demo songs.

The first time that you select the [Song] button Band-in-a-Box automatically writes the song list for the folder. From then on, the song list opens when the [Song] button is selected.

If you’ve added some new songs to a folder just click on [Rebuild List] and the SongPicker will add their titles to the list.

Check “Play when selected” to automatically play the song selected.

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There is also a Find feature to help you locate songs in the list.

Click on the [Find] button and then type in the word you want to search for and click on Find.

[Find Again] repeats your search.

Start song playback. Alternative methods are to double click on any bar in the Chordsheet, including the tag or ending if defined, or by pressing the spacebar.

Stop song playback. Pressing the spacebar also stops playback.

Pause the song with the [Pause] button; resume by pressing it again.

Jump to any bar in the song.

Press the [From] button to choose which chorus and bar number to jump to.

For even more fun, play along with the band! Once you have selected a song, you’ll see the chords in the Chordsheet, so it’s easy to read and play along.

Play along with your MIDI Controller Keyboard

If you have an external MIDI keyboard controller connected to your computer system, you can use the MIDI THRU features to play along with the program.

The Thru part is the part that you play along on your MIDI keyboard or with the Wizard feature. It can be harmonized by pressing the [T] button in the Harmony area of the main screen.
Select Thru Harmony

Press the [T] button or use the keystrokes Command+T to open the Select Thru Harmony dialog. Whatever you play along on your MIDI keyboard while the song is playing will be auto-harmonized in real time - in this case using a Tenor Banjo type harmony.

The Thru Harmony is also applied to Soloist parts when the option to Allow Soloist Harmony (on Thru) is selected in the Soloist menu.

For example, you could add a SuperSax harmony to a saxophone soloist to create the effect of a full saxophone section.

This button opens the Harmony Maker, where you can customize Harmonists.

This button is to turn off any notes that are stuck on. (There shouldn’t be any.)

Enter the number of the harmony you want to go to and press [Go To #].

Favorite Thru Harmony

This option brings up your favorite 50 Harmony styles (based on recent usage) and allows you to choose one to use on the Thru or Soloist track. It opens from the Harmony | Favorite Thru Harmonies menu item or by pressing either the [F] button next to the Thru Harmony box or the [Favs] button in the Select Thru Harmony dialog. Or you can use the keystrokes Control+F11 to open the Favorite Thru Harmony dialog directly from the main screen.
Pressing the [T] button allows you to choose from the full list of harmonies.

**Normalize MIDI**

If performing live, or at a jam session, it helps to have the volume of all of the songs be similar. With the **Normalize MIDI** feature, you can level the volumes to a range set in the program options. For example, you can set all volumes to be between 65 and 75, and the program will make each song play within those levels. This is done in the **Preferences 2** tab.

If performing live, or at a jam session, it helps to have the volume of all of the songs be similar. With the **Normalize MIDI** feature, you can level the volumes to a range set in the program options. For example, you can set all volumes to be between 65 and 75, and the program will make each song play within those levels. This is done in the **Preferences 2** tab.

**Transpose THRU Part (live playing on MIDI keyboard)**

This feature opens with the menu command **MIDI | Thru Transpose Settings**.

When playing along on your MIDI keyboard, you can set Band-in-a-Box to "Transpose by" semitones and/or octaves.

You can define a favorite key and “Each time a song is loaded” Band-in-a-Box will optionally transpose any and all loaded songs to that key. This is a great feature for practicing in a certain key.

You can also automatically transpose the Thru part so that you can always play along in your favorite key regardless of the actual key of the song.

The default is “No Transpose,” so the [Default] button sets all fields to 0.

If you are playing along while changing these settings, the [Update] button will apply the changes you have made so you can hear the difference.

[Do it now] sends your transpose settings for either the song or the Thru part, as selected.

**Change the Style**

The hundreds of musical styles available for Band-in-a-Box include lots of variations for any style you choose. You can even use several styles in the same song by pressing the **F5** function key on the computer to open the “Edit Bar Settings” dialog to change the style at any bar.

Try different styles by clicking on the [Style] button to choose from the StylePicker. The current prototype style is shown in the title bar.

The prototype can be selected with the [Change Prototype Style] button. Another option is to have the prototype default to the current style by selecting that checkbox.

Styles with a similar feel to the prototype will be indicated with an (*) asterisk. These would be styles that have the same feel (triplets/eighth/sixteenths) and a similar tempo range. Styles that have a similar feel but a different tempo range are marked by a (^) caret symbol. Choose the “Show Styles” filter to display all styles, or only styles that match the prototype partially or fully. With the “Disk #” filter, you can view just the styles from on styles set disk.
Change the Sound

Band-in-a-Box has several instrument parts - Bass, Piano, Drums, Guitar, Solo, Strings, Melody, and Thru. You can change patches on any part.

The easiest way to change patches on a part is to select the part by clicking on the desired part to change.

- Combo
- Bass
- Piano
- Drums
- Guitar
- Strings
- Melody
- Soloist
- Thru

Click on the Instrument Panel box. You will then see a menu of 128 instrument names. This list is the General MIDI patch list. Scroll down the list to find your patch.

Or click on the numbered buttons below the Instrument Panel box to choose from the 10 most common instruments chosen for that particular part.

If you have a General MIDI module, or any of the units that have a patch file for higher banks (*.PAT file) listed for them, then press the ' +' button on the main screen to choose the .PAT file from the Synthkits folder. This is an especially useful feature if you have a synthesizer or sound source that has patches on higher banks beyond the basic 128 General MIDI instruments. The window that appears when you click on this button looks like this:

This will provide you with a list of all the patches available to you by name on the left, and where the patch is located (patch #, bank) on the right.

Add RealDrums

The RealDrums feature replaces MIDI drums with audio drums recorded live by top studio drummers. RealDrums can be set to replace MIDI drums in all songs, or they can be assigned to just one song at a time.

Click on the [RealDrms] toolbar button for a menu with options to go either to the RealDrums Picker dialog or to the RealDrums Preferences.
Use the **RealDrums Picker** to choose RealDrums for the current song only.

The **RealDrums Picker** opens from the toolbar menu or the *Windows | RealDrums Picker* menu command.

It can also be opened from the **RealDrums Settings** dialog by selecting “For this song only, use this RealDrum style” and a click on the [RD] button.

Another option is to right click (or Control+click or double click) on the Drums part to open the contextual menu. Then select the **Choose RealDrums** menu command.

A filter is available. Type a filter text, (e.g. bossa) and press [Update], and you will then see the list filtered to show only RealDrums that have the word bossa somewhere in the title, memo, genre, etc. Multiple search terms work with the RealDrums Picker. If you separate terms with a space, each term will be searched separately.

So a search for “Bossa Rock Ev 120” will find any Bossa Rock styles with an Even feel that would work with a tempo of close to 120. Adding a search term that has a number will filter for RealTracks that match the tempo or within a compatible range.

Pressing [Show All] will cancel the filter, and show all RealDrums again.

There are additional settings to define your selection in the **RealDrums Picker**:

- [ ] **Show if Tempo is out of Range**
- [ ] **Show if feel does not match**
- [ ] **Show RealDrums that are not favorites**
- [ ] **Show RealDrums that are N/A**
- [ ] **For this song only, force MIDI drums**

“Show if Tempo is out of Range” will show styles that wouldn’t work well at the current song tempo. The acceptable range is shown in the list of styles Lo/Hi (9th and 10th) columns.
“Show if Feel does not match” will show a song where the drums are in Even feel and the style is Swing (or vice versa).

“Show RealDrums that are not favorites.” You can assign a style as one of your favorites by clicking in the first column. Then you can sort by favorites or use this option to only see favorites.

“Show RealDrums that are N/A.” These are styles not found in the Drums folder, likely because they are add-on styles not purchased yet. Press the [Rebuild] button and check the RealDrums Settings to confirm that you have the correct drums folder selected.

“For this song only, force MIDI drums.” Set this if you want MIDI drums and want to override a RealDrums that is set in the style.

“Memo” is a memo description of the style. These are stored in the Band-in-a-Box/Data/RDPGMemos.txt file. You can also add your own memos in the User Comments box below.

This shows the current RealDrums for this song.

This sets the drums to no RealDrums override for the song, and optionally also forces MIDI drums (i.e., no RealDrums for the style either).

The RealDrums list can be sorted by any of the column headings.

Click on the name of the RealDrums style name that you want to select for the song. Names ending in a caret ^ have variations available.

- ^ Clicking in the caret column will show the variations for the selected RealDrums style (if available).
- Genre is the type of music that the RealDrums style comes from, such as Jazz, Rock, or Country.
- Genre (more) suggests additional types of music that the RealDrums style might work for.
- /4 indicates the time signature, which is 4/4 by default. If the column is empty the time signature is 4/4, if there is a 3 in this column the time signature is 3/4.
- Ev indicates the feel of the RealDrums style, either Even or Swing.
- The listing in the 8 column indicates whether the meter is based on eighth notes (8) or sixteenth notes (16).
- Lo is the slowest tempo for which the RealDrums style is suited.
- Hi is the fastest tempo recommended for the style.
- X indicates a style with a tempo that is out of range for the song.
- N/A are styles not found in the drums folder.

You can type in your own comments about any style in the “User comments” field and they are saved.
RealDrums styles ending in a caret (^) have variations available. They are listed here. Where there are two instruments shown, such as Brushes/Sticks, the first one plays in the “a” substyle and the second in the “b” substyle.

**RealDrums Settings**

RealDrums are enabled/disabled in the **RealDrums Settings** dialog, which opens by clicking on the **RealDrums** toolbar button and choosing **RealDrums Preferences** from the menu.

This dialog also has settings for using RealDrums to replace MIDI drums in Band-in-a-Box styles. It is described fully in the RealDrums topic.

**Add RealTracks**

Just as RealDrums replace the MIDI drum track with live audio recordings of top session drummers, RealTracks add “real” instruments recorded by top studio players and recording artists.

RealTracks can play shots, holds, and pushes as entered in the Chordsheet. Many of them play 4-bar endings (instead of 2-bar) to allow for the natural decay of the instrument, and there are free patches adding this feature to earlier RealTracks sets. They are available at http://www.pgmusic.com/support_macintosh_realdrums.htm.

The RealTracks toolbar button opens the **Assign RealTracks to Track** dialog (RealTracks Picker).

This dialog also opens from the main screen contextual menus, which open with a right click, **Control+click**, or double click on any part name. Then click on the **Choose RealTracks** menu command to assign a RealTracks instrument to the selected part.
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Click on the [Settings] button to open the RealTracks Settings dialog.

Enable RealTracks

In the RealTracks Settings dialog you can Enable/Disable the RealTracks feature.

This is where the global settings are made that affect all RealTracks instruments and RealCharts notation.

Audio Reverb

There is a reverb control, labeled A.REV, for individual tracks with RealTracks or RealDrums, so you can easily add reverb (0 to 127) for any RealTrack.
You’ll see the “A.REV” (Audio Reverb) control at the top of the screen. Click on an instrument radio button to select a part, and then set the Audio Reverb for it.

Note that this only applies to RealTracks, since MIDI tracks have MIDI Reverb, which is set via a “REV” control.

The Audio Reverb varies from 0 to 127. Adjust the value by clicking a key on the on-screen piano keyboard. Or right-click (or Ctrl+click) the control to enter a value.

The Reverb type is also settable, and saved with the song. To do this, press the Audio Reverb button, and adjust the various parameters.

The default is a “room” type of reverb.

Freeze Tracks

Freezing (locking) MIDI or RealTracks/RealDrums

Any track (MIDI or RealTrack) can be frozen. When frozen, it won’t be changed or re-generated.

You can make tracks Frozen by pressing the Freeze button (snowflake) on the toolbar, and then choosing which tracks that you want to freeze or unfreeze.
This saves time when replaying previous songs, and allows you to freeze an arrangement that you like. If you freeze the whole song, you don’t have to wait at all for the song to regenerate. Next time you play, it is ready to go.

Click on the snowflake button again to reopen the Freeze/Un-Freeze menu when you want to un-freeze an individual track or all tracks.

Add a Melody

Band-in-a-Box is much more than an arranger and accompanist. You can also record your live MIDI performance to the Melody track, enter a Melody in the Notation note-by-note, or use the Wizard to record from your computer keyboard.

Enable the Embellisher, and the Melody will be embellished as it is played. You’ll hear a livelier, more realistic Melody - and it's different every time.

The Embellisher is only active while the music is playing; it doesn't permanently affect the Melody track.

Harmonize the Melody

The Select Melody Harmony dialog box allows you to choose from any of the pre-defined harmonies and even allows you to define your own.

Press the [M] button next to the piano keyboard to add a harmony to the Melody track.

This dialog also opens with the Harmony | Melody Harmony menu item or with the keystrokes Command+H.

This button opens the Harmony Maker, where you can customize Harmonists.
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This button is to turn off any notes that are stuck on. (There shouldn’t be any.)

Enter the number of the harmony you want to go to and press [Go To #].

**Favorite Melody Harmony**

This option brings up your favorite 50 Harmony styles (based on recent usage) and allows you to choose one to use on the Melody track. It opens from the Harmony | Favorite Melody Harmonies menu item or by pressing either the [F] button next to the Melody Harmony box or the [Favs] button in the Select Melody Harmony dialog.

You can go directly to the Favorite Melody Harmony dialog from the main screen with the keystrokes Control+F10.

**Play along with the Wizard**

The **Wizard** is an intelligent play along feature that is controlled with the bottom two rows your computer’s QWERTY keyboard. The bottom row of keys plays chord tones, the second row plays passing tones - you play any key in either row and never make a mistake!

**Add a Solo**

That’s right! Band-in-a-Box can “solo like a pro” in over 200 styles.

Use the [Soloist] button on the main screen to open the Select Soloist dialog box and choose from hundreds of soloist profiles, including RealTracks for authentic live audio solos. The RealTracks soloists start at #361 in the list.
Use the preset Soloist settings, or choose your own Solo Mode and the Choruses where you want a solo. The Soloist Maker [Edit...] button gives access to the advanced settings in the Soloist Editor where you can edit existing profiles or create new Soloists of your own.

To see the Soloist part play in standard music notation open the Notation window and press the [S] button at the far right of the row of instrument buttons.

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**View and Print Notation**

The notation feature in Band-in-a-Box makes it possible to follow the music onscreen as it plays, but it also does much more. We’ll use the song OLDFOOLS.MGU from the Songs folder to explore the Notation window.

Click on the [Open] button in the toolbar to launch the Open Song dialog. From the /Band-in-a-Box /Songs folder select OLDFOOLS.MGU and load it into Band-in-a-Box.

Let’s have a look at the Notation window!

Press the “note” button to launch the Notation (or press ^+N).

You’ll now see this Notation window.
Chords Line

Just as in the Chordsheet, you can type in chords using the same keystrokes. The chords will be entered at the location marked by the Current Time Indicator Line.

Use the Right /Left cursor keys to move back and forth from bar to bar, and the Up/ Down cursor keys to move from screen to screen.

Change The Mode Of The Notation Window

There are 3 modes: Standard Notation, Editable Notation, and Staff Roll.

Band-in-a-Box offers multiple modes of notation for different purposes. The notation defaults to Standard Notation mode, other modes are selected with the [N] button on the Notation window toolbar.

Pressing the button toggles through the three different modes.

Standard Notation is to display or print notation and enter chords. It shows the grand piano staff with notes and chord symbols.

The Standard Notation window displays the notation for any individual track, and allows for the entry of chords. Features include:

- Notation display for the Bass, Drums, Guitar, Piano, Strings, Melody, or Soloist track.
- As the notation plays, the notes that are sounding are highlighted in red. This helps with sight reading or following the music.
- You can set the notation to scroll either 1 or 2 bars ahead of the music without interfering with your view of the current notation.
- Standard notation handles Jazz eighth notes and triplet figures correctly.
- Automatic options such as auto durations, clean notation, mono display, minimize rests, hard rests, and engraver spacing produce very musical and readable notation.

Enter the Editable Notation mode from the notation screen with a single mouse click on the [N] button. This is a special staff with time divisions for mouse-based editing.
In the Editable Notation mode you can enter, move, and edit notes and rests using standard mouse techniques – point and click, and drag and drop.

This is the screen for step-entry of a melody or for editing existing parts. The grid of vertical lines that sub-divides each beat indicates where the notes will be placed according to the resolution of the song. Holding the Shift, Ctrl, or Alt key as you click on a note forces a sharp, flat, or natural respectively.

Resolution
- Swing styles use 3 lines to divide each beat into eighth note swing triplets.
- Straight styles use 4 lines to divide each beat into sixteenth notes.

Band-in-a-Box has automatically sets the grid resolution to 3 per beat (triplets) or 4 per beat. This resolution can be changed in the Notation Options dialog, but the program automatically sets the resolution to the correct value based upon the Band-in-a-Box style that is currently in use.

Click the [N] button again to enter Staff Roll Notation. In this view, you can enter or edit notes, as well as the note velocity and duration. The note heads are shown with editable velocity and duration lines.

This mode is similar to the Editable Notation mode, except that the beats begin right on the bar line. You can see the duration of the note visually represented by a horizontal blue (or green) line and the note’s velocity displayed as a vertical line of the same color.

Tip: If you can’t see these lines, press the [Opt.] button to check that “Show Note Durations, Show Velocity Lines,” and “Show Bar/Beat Lines” options are enabled.

Using the Mouse to Edit Velocity and Duration

Place the mouse cursor on the note head and hold down the Option button on the computer keyboard. Then, starting at the note head, drag the cursor horizontally to set the note’s duration, or vertically to set the note’s velocity.

Let’s print the song OLDFOLKS.MGU.

Press the [Print] button on the Notation window, or the Print icon on the main screen, or press Ctrl+P to launch the Print Options dialog box.

It is very likely that Band-in-a-Box has made all the correct settings for you.
You should make sure to select the print range of first chorus, to print only the first chorus of the song.

Take a peek at your printer setup to ensure that you have the correct printer specified.

Then press [OK – Print]. You will then get a printout of OLDFOLKS.MGU. This printout has been automatically scaled to fit on one page, and is done lead sheet style. You can of course change the options.

Now, get back to the Notation window. As the song is playing, let’s display other instruments beside the Melody.

These buttons stand for Bass, Drums, Piano, Guitar, Strings, Melody, and Soloist. The selected part (Bass) is highlighted in color. Get back to the Melody track, by pressing the [M] button. Ctrl+Shift+F5 is the hot key that allows you to switch tracks using keystrokes.

Try turning the Clean function on/off. “Clean” notation is an intelligent mode that eliminates grace notes and unusual notation, producing a cleaner and much more readable notation.

This allows you to play in melodies using grace notes, and normal playing, without worrying that the notation won’t display cleanly.

Let’s close the Notation window, by pressing the “note” button again. This returns us to the familiar Band-in-a-Box screen.
Play the Jukebox

Use the Jukebox for continuous playback of a list of Band-in-a-Box songs. Click the [JukeBox] button to open the Juke Box Options dialog, a list of options that controls how the songs in the chosen directory are played.

When you have chosen the options you want, click [PLAY JUKE BOX] to play all the songs in the selected directory folder.

Use the Preview feature to automatically audition a complete directory of songs by playing a part of each song and then moving on to the next one, or use the [<] and [>] cursor buttons to navigate manually through the list of juke box songs.

Automatic Songs - “The Melodist”

Feel like composing a brand new song?

With Band-in-a-Box you can compose a new song, in the style of your choice complete with intro, chords, melody, arrangement and improvisations, all created by the program! All you have to do is pick from one of the Melodists and press [OK] - the program then automatically generates the intro, chords, melody, and arrangement in the chosen style. It even auto-generates a title!

You can go from nothing to a completed song in less than 1 second! Once the song is generated, the chords and melody are part of the regular Band-in-Box tracks, so may be edited, printed, and saved as with any other song!

You can also auto-regenerate any part of a song and modify it to suit you. The Melodist will also generate a melody over an existing chord progression. A Melodist “Juke Box” mode creates and performs new compositions in succession.
Aside from the compositional values of the Melodist, the features can be used as a powerful practicing aid - improving sight reading by reading the melodies generated in various keys, and ear training - improving your “ear” by playing along with the chord progressions in the generated songs.

**Launching the Melodist**

To launch the Melodist, press the [Melodist] button on the main screen, or use the **Shift+F5** hot keys.

![Melodist Interface](image)

**Import a MIDI File**

With the amazing Band-in-a-Box Chord Wizard, you can convert any MIDI file into a Band-in-a-Box song, complete with Melody and Solo parts.

**MIDI File Chord Interpretation Wizard**

Many people who play music by ear think of songs in terms of “Chords and Melody.” However many MIDI files lack chord symbols, so they become difficult to learn without the user having to figure out the chords in a time consuming process.

Now you can open up any MIDI file in Band-in-a-Box, and Band-in-a-Box will automatically figure out the chords of the song for you. It automatically analyzes the MIDI file, figures out where the Bass, Piano, Melody, and other tracks are, and then figures out the chord changes for the song. The chords are written onto the Band-in-a-Box chordsheet like any other song. This allows you to quickly learn how to play a song from a MIDI file - just read it
into Band-in-a-Box and you’ll see the chord symbols, and then learn the melody! You can also read tracks into the Melody and Soloist tracks.

To import the chords from a MIDI file, blank the Chordsheet, by choosing File | New. Then select the menu item File | Import Chords from MIDI File or press the keystrokes (Ctrl+Option+I). This launches the Chord Wizard dialog.

Select your MIDI file to import with the [Open (Change)…] button. The Chord Wizard will automatically detect the settings for your song, choosing a Preset will help the Chord Wizard make the correct choices for the type of song you are importing.

Make Your Own Songs

Now that you know how much fun it is to play music with Band-in-a-Box, you’ll be pleased to see how easy it is to make songs of your own. This section shows you how to make a new song, with step-by-step instructions from start to finish.

Start with a clean sheet. Use either the menu command File | New or Edit | Clear Lead sheet, or the keystrokes Cmd+N to blank the Chordsheet.

Name the song.

Enter the title of the song by clicking in the title area.
Select the Key

Click on the key select list and change the key of your song instantly. Click on “YES” to the “OK to transpose Lead sheet?” prompt and Band-in-a-Box will automatically transpose the entire song.

Quick Song Settings

These are enhancements for entering songs quickly. Typing special words, instead of chord names, will make the following settings:

- `begin <Enter>` - sets the beginning of the chorus to the current bar
- `chorusend <Enter>` - sets the end of the chorus to the current bar
- `end <Enter>` - sets the end of the song to the current bar
- `tkc <Enter>` - sets key signature to C, tkbb would set it to Bb
- `trc <Enter>` - transposes song to key of C
- `t125 <Enter>` - sets tempo to 125

Entering Chords

Type in the chords

The chords we will enter are F for 1/2 a bar, Bb for 1/2 a bar, and C7 for a bar.

Mouse click on the first cell in the Chordsheet and type in the chord symbol. The chord name will appear in the chord box. Press the return key to enter the chord on the Chordsheet and advance the chord cell ½ bar. To enter two chords in a chord cell, type the chord names separated by a comma, e.g., f,bb. Continue until the song is complete.

This song will have no intro, and the chorus will be 32 bars long. The chordsheet we want to end up with will look something like this:

Copying and pasting a section of chords

Since many songs repeat the same sequence of chords throughout, a faster method to enter a song into Band-in-a-Box is to COPY and PASTE the repeating chords.

Highlight a section of chords by dragging the mouse over them while holding the left mouse button. The area will be blackened/highlighted.

Press `Cmd+C`, or select the Edit | Copy menu item. The highlighted area will be copied to the clipboard. It can then be pasted back into the Chordsheet at any location, and reused as many times as you like.

Move the highlight cell to the bar that you want to paste the chords into, using the arrow keys or the mouse.

Paste the copied section with press `Cmd+V` command, or select the Edit | Paste menu item. The chords will then appear at the new location. These features are also available from the Control+click or right-click contextual menu.

Chordsheet Contextual Menu

The Chordsheet has a contextual menu that opens with Control+click or a right-click on the highlighted bar in the Chordsheet area. This menu is another convenient way to access the features for editing song arrangements.
Chords can be copied, pasted, cut, or erased and new chords can be entered from the Chord Builder.

The Chord Settings allow pushes, rests, and pedal bass to be applied.
The Bar Settings let you refine your arrangement with changes in tempo, meter, key signature, styles, RealDrums, volume levels, patches, and harmonies.
Song Settings allow rests and pushes, and also control tags, endings, and fadeouts.
Global system settings are found in the Preferences.
The highlighted bar can be set as the beginning or end of a chorus, or as the end of the song.
Play the song from the current bar (highlighted) in any chorus.

Choose a Style
The chords, tempo, number of repeats and other information that you enter in the Chordsheet tell Band-in-a-Box what to play. The style you choose tells the program how to play it. When a style is loaded, the song will be played back in that style.
The Style Picker window allows easy selection of Styles by Category, Full Style Title, Memo, and examples of songs that work in that style.
You get to the StylePicker window by pressing the [Style] button or Ctrl+F9. This launches the StylePicker window with lists of all of the styles you have installed in Band-in-a-Box.

The lists may be printed out. For example, you can select Jazz styles, and see all the Jazz styles in Band-in-a-Box displayed. Then you can select a style such as GARNER.STY and see a full title, description of the style and examples of songs appropriate to the style. You won’t have to go “hunting” for the style you want any more.

Choose the “Show Styles” filter” to display all styles, or only styles that match the prototype partially or fully.

Use the “Disk #” filter to view only the styles from one styles set disk.

The StylePicker has a filter to show/hide Real or MIDI styles. So if you only want to see MIDI styles, or if you only want to see styles that use some/all RealTracks, you can set this.

Category List: Use the Category list on the left to select a style category (Jazz / Pop etc.) or a style set. Click on the list to choose.

Style List: Once chosen, you’ll see the list of styles available in that category or style set. You’ll see the name of the style, and the file name for the style. RealStyles are styles made exclusively with RealTracks, while Styles with RealTracks have both RealTracks and MIDI tracks. MultiStyles have additional substyle variations.

Favorites: The StylePicker has the ability to add/remove styles as favorites. A Favorite Style indication (F) shows up for chosen styles and you can filter any list by only showing favorite styles. You can build up a list of favorite styles, and only show them when needed.

The favorite styles are the ones that you’ve identified as favorites, either by pressing the [Add Favorite] button in the Favorite Styles dialog, or the similar button in this StylePicker dialog.

You can make any style a favorite by clicking the [Add Favorite] button. If you want to remove it, click the button again.

“Only Show favorites” will only show the favorite styles in any list that you have opened.

Memo and Examples: Click on a style to see a memo for the song, a list of songs that could be played using that style, and the suggested tempo range.

Double click on the style name to exit the dialog, and load the style.

If you have added new styles to Band-in-a-Box then you can re-build this list.

This allows you to print the styles list. It copies the list to the clipboard. Then you open up your favorite word processor (like Word for Mac, or BB Edit). Inside your word processor, select File | Print and print the list.

The Search button helps you find data in any of the fields.
Frame the song

Here we have selected bar one to be the first bar of the chorus and bar 32 to be the last. The chorus will repeat three times before proceeding to the two bar ending.

Set the Tempo

Let’s set the tempo to 160 beats per minute. The tempo is displayed in the song title window with a default setting of 120 beats per minute.

Click with the mouse to adjust the tempo in increments of 5 beats per minute. Clicking on the top of the numbers increases the tempo setting, clicking on the bottom decreases it. The tempo can also be typed into the Main Settings dialog, which opens from the menu Song | Title/Key/Tempo/Embel..., or with the keystrokes Command+K. You can click 4 times on the metronome in this dialog to set your tempo.

Tap the Tempo

Not sure of the tempo for your song? Tap it in real time on either the [-] key or the [=] key on your computer keyboard. Four taps on the minus key sets the tempo, four taps on the equal key sets the tempo and starts the song playing.

Finishing the Song Arrangement

Use the powerful musical intelligence of features like the Harmonies and the Soloist to add the final touches to your song. The Edit Bar Settings dialog (Alt+B or F5) lets you fine-tune your arrangement by changing styles, RealDrums styles, patches, harmonies, tempo (absolute or relative), and meter anywhere in the song. Changes can be applied to all choruses or just to a selected chorus.

Record a Melody

Band-in-a-Box has 2 built-in MIDI sequencer tracks, Melody and Soloist, so you can record and edit your own melodies or solos. These tracks are recorded from a MIDI keyboard (or other MIDI controller) connected to Band-in-a-Box by your MIDI driver.
Press the **[Record]** button to begin recording. This launches the **Record Track** dialog box. You can punch in, overdub, and record directly to the ending or the tag. Use the filter to choose which MIDI events are recorded.

Pressing the **[Record]** button will start Band-in-a-Box recording what you play on the Thru track. An audible count is played prior to recording.

Once you have completed recording your melody Band-in-a-Box will ask you if you would like to keep the take and if you would like to copy the recorded chorus to the whole song.

**Tip:** Looking for inspiration? At the click of a button, the Band-in-a-Box Melodist will write completely new songs from scratch, complete with Chords, Intro, Melody, Solo, Ending, and even an original Title. Or you can enter your own chord changes and let the Melodist create a new melody over them. There are more than 100 Jazz, Pop, Rock, Latin, Country, and Classical melody styles.
Adding Lyrics to your song

Use the menu command Edit | Enter Lyrics at Current Bar to open the Lyrics Entry window. The Escape key closes this window.

Use the cursor arrows to move down and enter your lyrics a line at a time. Two lines of lyrics are displayed while the song is playing, and the lyrics are highlighted as the highlight cell moves across the Chordsheet.

Add a Memo

A song memo of up to 2000 characters may be added with your own notes about the song and the Band-in-a-Box song summary. Clicking on the [M] button located to the right of the song title launches the Song Memo dialog where you can type in a short memo about the song, style, etc.

A red border around the [M] button indicates that the song has a memo. The keystrokes Option+M will also launch the Song Memo.

Automatic Memo-Generation

The Song Summary window automatically displays a full summary of the song (title/tempo/patches used in the song), as well as other special features, such as substyle patch change, harmonies, and whether the RealTracks and RealDrums are part of the style or specific to the song.

This saves much of the work previously required to manually type in this information to the memo.

Saving Your Work

Now that you have produced a great sounding song, it is time to save it as a Band-in-a-Box file, as a MIDI file, or as an audio wave file. All tracks can be edited and saved.

To edit a MIDI track (bass, drums, piano, guitar, strings), or the MIDI part of a RealTracks that has a RealChart (MIDI transcribed solo), simply open up the Notation window (or Piano Roll window), and click on the track and edit it. Make sure to Freeze the track by pressing the Freeze button and choosing Freeze for that track. Now your edited tracks will save with the song.

The [Save] button saves your song in Band-in-a-Box format. Band-in-a-Box accompaniments are saved with the file extension *.sgu. If a melody has been recorded the file extension will be *.mgu.
[Save As] allows you to assign a name to the song and specify the location where it will be saved.

The [Save +] button lets you “Save all settings with Songs” or select the settings to save. It launches the Save Patches and Harmonies W/ Song dialog where you can save custom patches for your song as well as Volume, Pan, Reverb, Chorus, Bank, Harmony, Frozen tracks and RealDrums settings.

The [.MID] button will save your file in Standard MIDI File format.

Press the [Audio] button and Band-in-a-Box will render the song arrangement to an audio wave file. This is done in the Render to Audio File(s) dialog.

Saving As Audio Files
The Render to Audio File(s) dialog box permits you to save your file as a wave file (*.wav), an AIFF file, or a high quality compressed M4a file. The files will render in a few seconds with the built-in Apple DLS Music Device, or through your own setup with Core MIDI.

There is an option to boost all files by a certain number of dB. “Boost All Render Files by” adds a dB amount to the whole mix, so that the mix will be louder or softer. There is automatic peak limiting added, so that the music will not distort if you set it too high.

Rendering also has a Normalize option to normalize individual tracks or the complete arrangement. Normalizing boosts the volume to a maximum level without distortion. Most professional music tracks are normalized.

Congratulations!
Now you know how to produce a complete song arrangement in Band-in-a-Box with RealDrums and RealTracks, a Melody, Solo, Harmonies, and Lyrics; either from scratch or from an imported MIDI file. You can print out clean lead sheet notation, complete with chord symbols. And you can save your song in MIDI form or as lossless PCM audio or compressed M4a audio for playback from your computer or over the Internet, or to send as an e-mail attachment. You’re on your way to making lots of great music with Band-in-a-Box.

Have Fun!
Chapter 6: Band-in-a-Box PowerGuide

Yes, it’s as “easy as 1-2-3” to make great music on your computer using the intelligent automatic accompaniment features of Band-in-a-Box, but there’s much more to this amazing program. Work your way through this chapter to discover the advanced features and techniques that will turn you into a “power user.”

RealTracks

What are RealTracks?

Just as RealDrums replace the MIDI drum track with live audio recordings of top session drummers, RealTracks add “real” instruments recorded by top studio players and recording artists.

These tracks replace the MIDI track for that instrument, and can be controlled just like the MIDI instrument (volume changes, muting, etc.). Best of all, they follow the chord progression that you have entered, so that you hear an authentic audio accompaniment to your song. These are not “samples,” but are full recordings, lasting from 1 to 8 bars at a time, playing along in perfect sync with the other Band-in-a-Box tracks.

Band-in-a-Box Pro includes the Pro RealCombos, a selection of twelve RealTracks in three combos (Jazz Swing 140, Pop/Rock 120 & Country Ballad 85) together with RealDrums Set 1. Many more RealTracks are available, either as separate add-ons, or bundled into the various Band-in-a-Box PAKs for better value. There are over 400 RealTracks in all, with many more to come.

RealTracks Dialogs

The RealTracks toolbar button opens a menu with selection for the RealTracks Picker dialog and the RealTracks Preferences. It also offers suggestions if there RealTracks available that are better suited to the tempo of the song than the RealTracks that are being used.

You could also open the Assign RealTracks to Track dialog (RealTracks Picker) directly with Shift+click on this button. Ctrl+click on the button opens the RealTracks Settings dialog (Preferences).

RealTracks Picker

The Assign RealTracks to Track dialog (RealTracks Picker) is where RealTracks are selected, auditioned, and assigned to a track in the Band-in-a-Box arrangement.
Global settings for RealTracks are made in the **RealTracks Settings** dialog, which opens with the menu command *Windows | RealTracks Settings* or with the **[Settings]** button in the **Assign RealTracks to Tracks** dialog (RealTracks Picker).

In the **RealTracks Settings** dialog, you can Enable/Disable the RealTracks feature.

**RealCharts (notation from RealTracks)**

Most RealTracks display notation, i.e. RealCharts, showing the notes that are being played. Some guitar and bass RealTracks also show tablature and an accurate on-screen fretboard display to show what is being played.

To see which instruments have RealCharts, visit the **Assign RealTracks to Tracks** dialog and sort column 11, “Chart.” Instruments with an “N” or “Gt” in this column have RealCharts.

- Instruments with “Gt” in the Chart column have RealCharts with accurate guitar tab and on-screen guitar fretboard display.
- If the instrument is Acoustic Piano and there is an “N” in the Chart column, the instrument has a Jazz piano RealChart.
- The various other instruments with an “N” (Pedal Steel, Slide Guitar, Resophonic, Trumpet, Alto Sax, Tenor Sax) have RealCharts in standard notation.

**Drums** At the top of the screen, if a track has RealTracks, but is NOT a RealCharts track, then the track name is green.

**Strings** Real Instrument charts: If a track has a RealChart, the track name is green and underlined with a short line.

**Guitar** RealGuitar charts: If a track has RealChart, and is a guitar track with accurate tab and on-screen guitar fretboard display, then it is green and underlined with a long line.

The RealCharts can be saved to MIDI files or with Band-in-a-Box songs (MGU).

RealCharts are optional and are selected in the **RealTracks Settings** dialog.

- “Show notation for RealCharts in styles” will show RealCharts that have been generated from styles with RealTracks.
- “Show Notation for Soloists” will show RealCharts that have been generated from the **Select Soloist** dialog.
- “Save RealChart in MIDI file” will save the RealChart to a MIDI track so you can analyze it in other programs.
- “Save RealCharts in BB Songs (MGU)” will save the RealChart MIDI information to the MGU file.
RealTracks Folder

The RealTracks styles are stored in Applications/Band-in-a-Box/RealTracks by default.

You can choose an alternate folder location in the RealTracks Settings dialog by checking “Use a custom folder location for the RealTracks” and then clicking on the folder button and picking an alternate folder. Then, click on the [Update] button to confirm the new location.

You don’t need to visit this folder when using RealTracks; it is used internally by Band-in-a-Box, so you shouldn’t add or remove files from this RealTracks folder unless you “know what you’re doing.”

Applying RealTracks Settings

To make these settings open the RealTracks Settings dialog with either the [Settings] button in the Assign RealTracks to Tracks dialog or with Ctrl+click on the RealTracks toolbar button. This dialog also opens with the Windows | RealTracks Settings menu command.

You can apply an overall Volume Adjust to the RealTracks. If they are too loud overall, try a Global Volume Adjust of about -10 dB. “Allow soloing to crescendo” can be applied to some RealTracks to have the intensity of the solo building up, with the flashiest part of the solos playing as the solo builds.

This launches the Assign RealTracks to Tracks dialog (RealTracks Picker) that allows you to select RealTracks.

This “speedup” feature works automatically for faster generation of RealTracks using CPU resources during playback. If you have a multi-core machine, you may not notice this at all, since it will use different cores than the main Band-in-a-Box thread. If your machine is older, low on memory, slow hard drive etc., you can disable this “speedup” feature so that your machine is doing less CPU work during playback.

When set, the program will find the best RealTracks to use at the current tempo. For example, it might substitute an Acoustic Bass at a higher tempo if that is closer to the tempo of all songs.

If set, a yellow message appears whenever better RealTracks are available at the current tempo. To choose these RealTracks press the RealTracks toolbar button and choose “Select better RealTracks for this tempo” in the dropdown menu. Use this option if you don’t want Band-in-a-Box to automatically substitute your RealTracks, but you would like to know if there are other choices available to you that might be more suitable for the song.

This allows an additional two bars at the end of the song for the ending on RealTracks to fade (decay) naturally. If your RealTracks selection does not support this feature, you can check www.pgmusic.com/support to see if we have uploaded a free update.

This adds audio reverb to the RealTracks and RealDrums. Enter the % amount and click the update button. This uses some CPU cycles, so disable on slower machines.

When set, songs will support shots, holds, and pushes for RealTracks. Not all styles have these available, so check the RealTracks Library Holds folder and the “H” column in the Assign RealTracks to Track dialog.

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Many Jazz comping styles now play triads (instead of 7ths) when simple triads are entered, instead of “jazzing them up” to 7ths chords (e.g. Guitar: Freddie, Wes Piano: some Jazz, all Stride, Rehearsal). If you prefer to have triads automatically “jazzed up” when comping using Jazz RealTracks, then you can set this option to force 7ths for triads.

“Custom RealTracks folder” allows you to put your RealTracks in a custom folder other than /Applications/Band-in-a-Box/RealTracks. Use the [Folder] button to locate a custom folder, and use the [Update] button to assign the folder. This option is discussed in the previous topic, RealTracks Folder.

The [Archive] button will erase the .AIFF files in the RealTracks folder when there is a smaller .M4A file available.

[Defaults] sets RealTracks Settings back to default settings.

Save the new settings you have made in this dialog by pressing the [Update] button. Most changes will take effect the next time you press [Play].

Press [OK] to make your selection and exit the RealTracks Settings dialog.

Press [Cancel] to exit the RealTracks Settings dialog without making any changes.

Using RealTracks

There are three ways that you can use RealTracks with Band-in-a-Box.

1. RealTracks in songs.

   Use the [RealTrks] toolbar button to select the RealTracks Picker, which launches the Assign RealTracks to Track dialog. This dialog displays the current RealTracks that are assigned to each track. This dialog is also available with a right mouse click on any Band-in-a-Box part name. Then select Choose RealTracks from the context menu that opens.

2. RealStyles.

These are Band-in-a-Box styles (.Style) that have at least one RealTrack. For example the style called “=GEORGEp.style” is a RealStyle because it uses RealPedalSteel for the Strings part, as well as other instruments (MIDI bass, MIDI piano, MIDI guitar, RealDrums).

3. RealSoloists.

These are Soloists that are generated on the Soloist track, by pressing the Soloist button on the main screen. RealSoloists using RealTracks begin at #361 in the list of Soloists. There is a [RealTracks] button in the Select Soloist dialogue that jumps directly to the list of RealTracks soloists.

Using RealTracks in Songs - Assign RealTracks to Track Dialog

The Assign RealTracks to Track dialog assigns a RealTracks instrument to any of the Band-in-a-Box instrumental tracks. It also shows any RealTracks that are assigned to Band-in-a-Box tracks.

This dialog is launched by either right-clicking (or Ctrl+click or double click) on an instrument name at the top of the Band-in-a-Box main screen and clicking on Choose RealTracks in the menu.
Pressing the [RealTrks] toolbar button and selecting RealTracks Picker Dialog.

The dialog allows you to assign a specific RealTracks instrument to a track in a song. It also displays any RealTracks that are currently assigned to each track.

This will assign a RealTracks to the current song only, overriding any RealTracks stored in the style.

The [None] button sets the current track to no RealTracks assigned for the song.

This sets all RealTracks for the song to “None.” It will also optionally disable RealTracks present in the style for this song.
Select “Disable RealTracks for this track (Force this track to MIDI)” if you want to have no RealTracks instrument for this track, even if the style specifies a RealTrack.

“Artist Bio” - The RealTracks have been recorded by top studio musicians. The artist names and bios are displayed for the RealTracks. Double click here to view the full memo.

“Memo” field - This describes the currently selected RealTracks style, and includes some useful tips, such as a suggested tempo range and Band-in-a-Box styles to use it with.

“User comments” - You can enter your own comments about any style in this field. The comments are saved in RTUserMemos.txt.

Use the song and style demos to audition RealTracks.

The [Song Demo (MGU)] button will display a list of songs in the Applications/Band-in-a-Box/RealTracks – Demos folder that use the selected RealTrack instrument. Click on the song name and then press the [Play] button to hear it.

The [Style Demo (.STY)] button shows a list of styles that use the currently highlighted RealTracks instrument. Clicking on a style name will load the style into the current Band-in-a-Box song. Press [Play] to hear your current song played with the RealTracks style that you want to audition.

[Defaults] sets the dialog to default values.

[Settings] launches the RealTracks Settings dialog.

[Audition] and [+] buttons play a short M4A file demo of the currently selected RealTracks, without affecting the currently loaded song in Band-in-a-Box. The [Audition] button plays a solo file, and the [+] button plays a file in context with a band.

Picking RealTracks

To use the dialog, first select the track that you want to assign. Then, select the RealTracks that you want in the list below it.

You can sort the list by clicking on any column heading. As well as Name, GM (General MIDI instrument), Type (Rhythm or Soloist), Feel (Even or Swing), Tempo, Genre, and Number there are more columns with additional information about each RealTrack instrument.

- The “N/A” column shows “N/A” for RealTracks that you either have not installed or haven’t yet purchased, if “Show RealTracks that are N/A” is checked below.
- “Set” is the number of the RealTracks set that includes the instrument.
- The “St” (stereo) column shows whether the instrument playback is stereo or mono.
- Instruments with an “N” or “Gt” in the “Nt” (notation) column will display the RealTrack in notation.
- The “Artist” column has the name of the musician playing on the RealTrack instrument. See the “Artist Bio” box for information about the player.
- The letter “t” in the “T” column indicates RealTracks that are tempo swappable and can be substituted with other RealTracks that are made at different tempos.
- If the “H” column is blank it means that Holds, Shots, and Pushes are available for the listed RealTracks. The letter “n” in this column means that they are available but not installed. A dash – means that no Holds, Shots, and Pushes are available for the style.

Since RealTracks are add-on purchases for Band-in-a-Box, your version may not contain all RealTracks. Selecting the “Show RealTracks that are N/A” checkbox will show you all available RealTracks.
Some RealTracks have variations available, such as the Acoustic Jazz Bass, which has variations that play in “2” only, in “4” only, or in “2” and “4” (for “a” and “b” substyles). Normally you will want to “Show RealTracks Variations.”

Use this to show/hide RealTracks that are out of compatible tempo range.

This will display RealTracks installation errors when you open the dialog. Press the [Rebuild] button for more information.

This rebuilds the list of RealTracks. It also reports any installation errors.

You can play RealTracks at half time or double time. This allows you, for example, in a ballad at a tempo of 70 to add a RealTracks solo with a tempo of 140 and play it in double time, which will match the ballad tempo of 70.

A filter is available. Type a filter text, (e.g., bass) and press [Update] and you will then see the list filtered to show only RealTracks that have the word bass somewhere in the title, memo, genre, etc.

Multiple search terms work with the RealTracks picker. If you separate terms with a space, each term is searched for separately. So a search for “Country Guitar Ev 120”, will find any Country Guitar styles with an Even feel that would work with a tempo of close to 120. Adding a search term that has a number will filter for RealTracks that match the tempo or within a compatible range.

Pressing [Show All] will cancel the filter, and show all RealTracks again.

[Generate Track] will generate a RealTracks instrument on the currently selected track.

This button will close the dialog, and assign the RealTracks instrument to the current track. Then, when play is pressed, the RealTrack will generate.

Click on [Cancel] to exit the dialog without assigning a RealTracks instrument to the current track.

Using RealTracks in Styles

The StyleMaker has settings to assign RealTracks to styles in the Misc. Style Settings dialog. This allows you to create or edit styles to assign specific RealDrums or RealTracks to the style.

To access this dialog, enter the StyleMaker (User | Make A New Style), and then press the [PATCH] button to launch the Misc. Style Settings dialog.

RealTracks can be assigned to any Band-in-a-Box instrument part in an existing style by using the “Assign Soloist (MIDI) or RealTracks (audio) to style” feature.
To assign RealTracks to a style select the “Instrument” part that you want to replace with a RealTrack.

Then select the RealTracks instrument that you want for this part in the style.

**Note:** This list also includes soloists, the RealTracks listing begins at #361.

Styles can have multiple RealTracks. For example, you could have RealPedalSteel and RealAcousticGuitar - and also RealDrums.

**Assigning RealDrums to the Style**

RealDrums are assigned to the style separately from RealTracks.

To use RealDrums in a style that was originally made with MIDI drums, go to the “RealDrums Settings” section of the Misc. Style Settings dialog and enable (check) the “Style uses RealDrums (audio drums)” setting.

To choose a RealDrums style, click on the [RD] button. This will open the RealDrums Picker where you can choose from all of the RealDrums that you have installed in your Drums folder.

**Volume and Timing Offsets**

The volume and the timing of the RealTracks parts can be adjusted to match the rest of the style.

**MultiStyle(s)**

Enter the name of a style: zzjazz, or multiple styles separated by semicolons: zzjazz;zzbossa and these will appear as MultiStyles, substyles c/d/e/f etc.

You can click on the [Style] button to choose the styles for your MultiStyle from the StylePicker window.

**Styles with RealTracks**

There are many existing Band-in-a-Box styles that have been made with RealTracks. The style names begin with an equals sign.
RealStyles are styles that use only RealTracks and no MIDI instruments. These style names begin with an underscore.

RealStyles and Styles with RealTracks have their own categories in the StyleMaker.

Finding all styles that have RealTracks.

Open the StylePicker and locate the categories called “RealStyles” and “Styles with RealTracks.” Click on a category to list all of the styles that are present that include RealTracks.

Using RealTracks in Solos.

Press the Soloist button (Shift+F4) and launch the Select Soloist dialog. Get to Soloists in the range from #361 and up.

You can do that by:

1. Typing 361 and pressing [Go to].
2. Choosing Favorites to return to a recently chosen Soloist.
3. Click on the [RealTrack] button to jump directly to the start of the RealTracks soloists listings.

Saving RealTracks Soloists

Soloist generated RealTracks are saved with the song, so you will hear the RealTracks play the same solo when you reload the song.

When you generate a solo using RealTracks, Band-in-a-Box will remember this, and when you go to save the song, Band-in-a-Box will ask you if you want to save that solo (and thereby freeze the Soloist track). If you say yes, then the solo will play instantly the same way when the song is reloaded. Of course, you can freeze the soloist track yourself at any time.

Saving Your RealTracks

As with Band-in-a-Box MIDI parts and RealDrums, the RealTracks can be saved by rendering the complete performance to an AIFF file or the individual RealTracks to separate AIFF files.

The RealTracks selection that you assign to a song will be saved with the song, but the audio track that was generated is not automatically saved with the Band-in-a-Box MGU file. This is because the Band-in-a-Box MGU file only contains chords/melody/lyrics (and an optional audio track AIFF file).

If you have generated a RealTracks part that you want to keep you can use the Freeze feature to save it. Frozen tracks will reload with the song and play exactly as saved.

Are other RealTracks available?

There are one hundred and one sets with over 500 RealTracks instruments with many more to come. See http://www.pgmusic.com/products_realtracks.htm for the latest releases.
RealDrums

The RealDrums feature replaces MIDI drums with audio drums recorded live by top studio drummers.

Why do RealDrums sound better than MIDI Drums?

RealDrums are recordings of top studio drummers playing multi-bar patterns, whereas MIDI drums are patterns based on single drum hits programmed, typically on a quantized grid, as people assume drummers are typically playing.

With RealDrums, we record top studio drummers at multiple tempos, so the playing you hear at various tempos is also musically different, not just “sped up.” Drummers play different types of fills etc. at slower/faster tempos, and these are captured with RealDrums.

Technical note: If interested, you can see which tempos have been recorded by looking in the Band-in-a-Box/Drums folder for the particular style you are interested in.

How Do RealDrums Work?

There are several ways to hear RealDrums with new or existing Band-in-a-Box songs. RealDrums can be added to a single song, or substituted for MIDI drums in existing styles.

We provide many styles that already have RealDrums. These styles can be identified by the style name beginning with a minus sign. For example “-ZZJAZZ.STY” is a version of the ZZJAZZ style that uses RealDrums.

Let’s Explore the Real Drums

Let’s load in some RealDrums tunes!

Open the Applications/Band-in-a-Box/Drums - Demos folder and you'll see folders of demo tunes. These will demonstrate the RealDrums.

Let’s load in “JazzBrushes_145_Demo.MGU” from the /Applications/Band-in-a-Box/Drums – Demos folder. Press [Play]. If you have the RealDrums style installed for “JazzBrushes” (i.e., you have a folder called “Band-in-a-Box/Drums/JazzBrushes”), then you should now be hearing RealDrums. You can tell right away, because the count-in sound is different, it is not the usual MIDI count-in, but is a side-stick or snare live drum sound.

As the RealDrums are playing:

- Change the tempo of the music as it is playing. Use the standard tempo controls, the square bracket keys [ and ], to change the tempo and the RealDrums will change immediately to the new tempo. (The [ and ] keys change tempo by 5 bpm.)

- Press STOP, and then change the tempo to a far slower tempo (like 60 bpm). Now press PLAY. Notice that the RealDrums are not just playing slower, they are playing differently, with appropriate patterns and fills for a slower tempo! This is because we have recorded the drummers playing at different tempos, and include a wide variety of tempos inside the RealDrums folder.

- **Styles with RealDrums**  Open up the StylePicker, and notice the category called “Styles with RealDrums.” This lists many RealDrums styles that we’ve made. We always name the RealDrums style beginning with a minus sign, so that “-ZZJAZZ.STY” would be the ZZJAZZ style, but using RealDrums instead.

- **Settings**  In the RealDrums Picker, click on the [Settings] Button to open up the Real Drums Settings dialog. Try turning off the RealDrums by de-selecting “Enable RealDrums.”

Using RealDrums

The RealDrums toolbar button opens a menu to choose the RealDrums Picker Dialog, Shift+click, or the RealDrums Preferences, Ctrl+click.
RealDrums Picker

Use the RealDrums Picker to choose RealDrums for the current song only.

The RealDrums Picker opens from either the [RealDrms] toolbar button menu or with the Windows | RealDrums Picker menu command.

It can also be opened from the RealDrums Settings dialog with the selection “For this song only, use this RealDrum style” and a click on the [RD] button.

A filter is available. Type a filter text, (e.g. bossa) and press [Update], and you will then see the list filtered to show only RealDrums that have the word bossa somewhere in the title, memo, genre etc.

Multiple search terms work with RealDrums Picker. If you separate terms with a space, each term is searched for separately. So a search for “Bossa Rock Ev 120,” will find any Bossa Rock styles with an Even feel that would work with a tempo of close to 120. Adding a search term that has a number will filter for RealTracks that match the tempo or within a compatible range.

Pressing [Update] applies the current filter.

Pressing [Show All] will cancel the filter, and show all RealDrums again.

There are additional settings to define your selection in the RealDrums Picker.

- Show if Tempo is out of Range
- Show if feel does not match
- Show RealDrums that are not favorites
- For this song only, force MIDI drums

“Show if Tempo is out of Range” will show styles that wouldn’t work well at the current song tempo. The acceptable range is shown in the list of styles Lo/Hi (9th and 10th) columns.
“Show if Feel does not match” will show a song where the drums are in Even feel and the style is Swing (or vice versa).

“Show RealDrums that are not favorites.” You can assign a style as one of your favorites by clicking in the first column. Then you can sort by favorites or use this option to see only favorites.

“Show RealDrums that are N/A.” These are styles not found in the Drums folder, likely because they are add-on styles not purchased yet. Press the [Rebuild] button and check the RealDrums Settings to confirm that you have the correct drums folder selected.

“For this song only, force MIDI drums.” Set this if you want MIDI drums and want to override a RealDrums that is set in the style.

“Memo” is a memo description of the style. These are stored in the Band-in-a-Box/Data/RDPGMemos.txt file. You can also add your own memos in the User Comments box below.

RealDrums are recorded by top studio drummers. See the “Bio” for a capsule description of the musician’s career and credits.

This sets the drums to no RealDrums override for the song, and optionally also forces MIDI drums (i.e., no RealDrums for the style either).

The RealDrums list can be sorted by clicking on any of the column headings.

This shows the current RealDrums for the song.

Click on the name of the RealDrums style name that you want to select for the song. Names ending in a caret ^ have variations available.

- ^ Clicking in the caret column will show the variations for the selected RealDrums style (if available).
- Genre is the type of music that the RealDrums style comes from, such as Jazz, Rock, or Country.
- Genre (2) suggests additional types of music that the RealDrums style might work for.
- /4 indicates the time signature, which is 4/4 by default. If the column is empty the time signature is 4/4, if there is a 3 in this column the time signature is 3/4.
- Ev indicates the feel of the RealDrums style, either Even or Swing.
- The listing in the 8 column indicates whether the meter is based on eighth notes (8) or sixteenth notes (16).
- Lo is the slowest tempo for which the RealDrums style is suited.
- Hi is the fastest tempo recommended for the style.
- X indicates a style with a tempo that is out of range for the song.
- N/A are styles not found in the drums folder.
- Artist lists the names of the drummers who recorded each RealDrums style. Select a name to read their Bio.
- Set is the number of the RealDrums set that includes the style.

You can type in your own comments about any style in the “User comments” field and they are saved.

RealDrums styles ending in a caret (^) have variations available. They are listed here. Where there are two instruments shown, such as Brushes/Sticks, the first one plays in the “a” substyle and the second in the “b” substyle.

[PlayNow] loads the selected RealDrums and starts playback.

The [Stop] button stops the song playback. Click on [PlayNow] to resume.

The [Audition] button doesn’t load the style but instead uses Media Player to play a demo .AIFF file for the style.

[Settings] opens the RealDrums Settings dialog.

[Rebuild] builds the list of RealDrums present as folders in the Drums folder. If you add new drum styles, press this button to update the list. RealDrums made by you (or others) that are added by you to the RealDrums folder also appear in the RealDrums Picker dialog.

[Defaults] returns the dialog to default settings, which will show all available styles.

Press [OK] to make your selection and return to the song.

Press [Cancel] to return to the song without making a selection.

RealDrums style change at any bar (F5)
The Edit bar settings dialog opens with the menu command Edit | Bar Settings, with the F5 function key, or the keystrokes Alt+B.

Tip: If the F5 key (or F8 key) does not perform the expected function in Band-in-a-Box, you will need to go to the Apple System Preferences and uncheck the system setting in the Keyboard Shortcuts list.

In this dialog you can change the style of RealDrums at the current bar (location of the highlight cell). The change can affect all choruses, or just a selected chorus.
The [R.Drums] button opens the **RealDrums Picker** to select a new RealDrums style from the list. Click on [Clear RealDrums change] to remove the change.

### RealDrums Settings

The **RealDrums Settings** apply to all songs. (Use the **RealDrums Picker** to assign a particular RealDrums style for just the one song you are working on.)

The **RealDrums Settings** dialog opens from the **RealDrums Preferences** item in the [RealDrms] toolbar button menu.

You can also get to the **RealDrums Settings** dialog with the [Settings] button in the **RealDrums Picker** or with the **Windows | RealDrums Settings** menu command.

Use the **RealDrums Settings** to substitute RealDrums for MIDI drums in existing Band-in-a-Box styles.

With “Enable RealDrums” checked RealDrums may be used rather than MIDI. This setting can be changed while the song is playing so that you can compare MIDI drums and RealDrums.

This will substitute RealDrums for MIDI styles in all songs where a suitable RealDrums style is available. You can change the setting from 1 to 5.
If set to 1, almost all MIDI drums will be substituted by RealDrums. If set to 5, only RealDrum styles that match the style perfectly will be substituted.

**For RealDrums substitutions, choose different variations with each PLAY**
This feature selects variations of RealDrums instruments with each PLAY.

Most RealDrums styles contain many instrument variations (brushes vs. sticks, hi-hat vs. ride cymbal, percussion only, etc.). Now, by selecting “…choose different variations with each PLAY,” you can hear a different variation each time play is pressed, so the song sounds fresh each time. One time you’ll hear it with brushes, the next time with sticks and ride cymbals, etc.

**Favor Brushes/Sticks**

When selecting RealDrums styles to use for a style, Band-in-a-Box will use your preferences for brushes and sticks. For example, if you choose “Favor Brushes” Band-in-a-Box will always choose from among variations that include brushes (when available).

**Favor Artists**

We have “artist” support. This allows you to choose among different drummers playing the same style. For example, we have multiple artists playing the “JazzBrushes” style. You can set Band-in-a-Box to choose a different artist with each play, or always choose a specific artist.

**If RealDrums style not found… use other RealDrums style**

Use “If RealDrums style not found, use other RealDrums style” to replace RealDrums styles that you don’t have (i.e., haven’t purchased yet) with ones that you do have. This feature also has a range of settings from 1 to 5. If set to 1, almost all missing styles will be substituted. If set to 5, only RealDrum styles that match the style perfectly will be substituted.

**Technical note**: The a_pgmusic.ds text file controls this feature.

**RealDrums For Individual Songs**

Individual songs can have RealDrums added to them.

When this is set, if you save a specific style with a song, you’ll hear a new variation of that style each time you press PLAY, with different drum instruments.

**Developer Mode**

Only set this when you are a developer making a RealDrums style and want to see additional debug information such as the /Applications/Band-in-a-Box/drumaudioresults.txt file and messages about errors in the _style.txt file.

**Hi-Res Quality at half-speed**

When selected, RealDrums will use a higher quality (more CPU intensive) method to play the drums when playing at ½ or ¼ speed (from the Play menu).
Global Volume adjust
If you are finding that the RealDrums track is too loud or quiet in relations to the MIDI parts, you can adjust the volume here. This affects all RealDrums styles.

Slide Track
You should normally leave this at 0, but if you are having sync problems between the MIDI tracks and RealDrums you can set this to a positive or negative value. Values are in milliseconds (ms).

Custom Drum Folder, instead of /Applications/Band-in-a-Box /drums

You can choose any folder for your RealDrums. This allows you, for example, to conserve space on your hard drive by storing the RealDrums on an external drive.

Since you can type in your own folder name directly, you should update the setting when you are finished typing the name.

If you want to store your Drums folder somewhere other than /Applications/Band-in-a-Box/Drums, then specify that location by choosing its folder here.

Other RealDrums Controls
This button clears the currently selected RealDrums for the song.

This allows you to audition the song with and without RealDrums without leaving this dialog.

Stop song playback.

Return the settings in this dialog to their defaults.

This updates the settings in the dialog and rebuilds the list of drum styles.

The [Archive] button will erase the AIFF files in the Drums folder when there is a smaller M4A available.

For a single chosen folder, this reverses the Install function and erases the AIFF file when there is already an M4A file.

Press [OK] to make your selection and exit the RealDrums Settings dialog.

Press [Cancel] to exit the RealDrums Settings dialog without making any changes.
**Song Settings**

Song settings include the title, key signature, and tempo for a song and the Band-in-a-Box style for its arrangement.

**Main Settings**

The **Main Settings** dialog shows all the settings for the song. Go to *Song | Title/Key/Tempo/Embel…* or use the keystrokes **Command+K** to open the dialog.

**Title, Key Tempo**

The Title: field will show the current title from the Title window. For a new song it will be “Untitled.” Type in the title for your song here.

Settings for Key and Tempo can be typed directly into the dialog.

If you aren’t sure of the exact number value for the tempo of your song, you can click four times in tempo on the metronome and Band-in-a-Box will set it automatically.

The Title, Key, and Tempo settings can also be made in the Title window on the main screen.

**Transpose**

If you change the key you can transpose all of the MIDI parts to the new key by checking the Transpose box. This is especially useful when loading in new songs and transposing them to other keys.

If you’ve entered a progression that you intend for a particular key, and then choose the key afterward in order to show the correct key signature, you would leave Transpose unchecked. Then the key signature will change to the new key you type in, but the chords you entered will stay the same.

**Embellish Chords**

The Embellish Chords setting enables live embellishment of the chords.

**Additional Song Settings**

The **More …** button opens the **Additional Song Settings** dialog box. These are the additional song settings for options like rests, pushes, chord embellishment, tags, endings and more that turn a standard Band-in-a-Box song into an arrangement. They are saved with the song.

This dialog box also opens with the **S** button on the main screen, or by choosing **Additional Song Settings**... from the **Song** menu.

**Vary Style in Middle Choruses**

If checked, the song will play in substyle B throughout the Middle Choruses. The Middle Choruses include all choruses except the first and last. If not checked, the middle choruses will play “a” and “b” substyles as set in the Chordsheet with part markers.
For example, in Jazz Swing, since the “b” substyle is Swing, all of the middle choruses will have swing bass. (The “a” substyle is playing half notes on the bass.)

**Allow Pushes in Middle Choruses**

This is used if you have put pushes into a song, but don't want the pushes to play in the middle choruses. The middle choruses are usually used for soloing, so you may not want the pushes to play.

**Rests**

**Allow Rests in First Chorus**

This is used if you have put rests into a song, but don't want the rests to play in the first chorus.

**Allow Rests in Middle Choruses**

This is used if you have put rests into a song, but don't want the rests to play in the middle choruses. The middle choruses are usually used for soloing, so you may not want the rests to play.

**Allow Rests in Last Chorus**

This is used if you have put rests into a song, but don't want the rests to play in the last chorus.
Allow Pedal Bass in Middle Choruses  Default = ✓
This determines whether Pedal Bass effect will be allowed in middle choruses.

Allow Embellishment of Chords  Default = ✓
The Jazz styles include embellishment of chords. This means that if you type a C7 chord the piano player may play a C13 or a C7b9. This makes the arrangement sound more authentic.

Tip: If you are hearing flat 9 and flat 13 embellishments on a C7 chord that is clashing with the melody, you should rename the chord C9 or C13, which will ensure natural 9 and 13 embellishments. To disable the embellishment for a certain song, uncheck this option. There are very few situations that you wouldn't want it on, especially if you name some chords as C9 instead of C7 in situations where the melody clashes with the embellishment, as discussed above. You would need to uncheck it for any song that you don't want it on.

Tags
Tag Settings
A tag (or coda) is a group of bars that are played in the last chorus of a song. If you check the “Tag Exists?” field, then the tag will play during the last chorus of the song. The tag begins after the bar you specify as “Tag Jump After Bar #.” The song then jumps to the “Tag Begin at Bar #” and plays until “Tag Ends After Bar #.” At the end of the tag, the song then plays a 2 bar ending as usual.

Generate 2-Bar Ending for This Song  Default = ✓
You can disable the ending for a certain song. You can disable the endings for all songs by clearing the checkmark for the “Allow Any Endings” setting in the Preferences dialog.

Use 4-Bar Ending for RealTracks  Default = ✓
Adds two bars on the end of the song for the ending note on RealTracks to fade (decay).

Start the ending 2 bars early  Default = 
The usual Band-in-a-Box ending is 2 bars appended to the end of the song. This option gives you an alternative to end the song on the last bar of the song. Band-in-a-Box will still play an ending on the chord that you specify, and the ending will occur as a 2 bar phrase beginning 2 bars before the end of the form. This results in more natural endings for many songs.

For example, the song Old Folks At Home is a 32-bar chorus song from bar 1 to bar 32. It ends with the last melody note on bar 31 with the word “home,” but Band-in-a-Box normally plays a 2 bar ending, starting at the end of bar 32 and going for 2 bars more. For a song like this, it is more natural to end the song at the end of bar 32. To set this in Band-in-a-Box set “Start the ending 2 bars early” to true.

Note: “Auto Endings”
If you've made a style, and haven't included an ending, a 2-bar ending can be generated automatically, based on the style.

Fadeout ending # bars
You can quickly choose a fadeout ending. Just press the Fade button and Band-in-a-Box will fade out the last “X” bars of the song (you can specify how many bars). Or customize the fadeout with precise values for each bar.

Solos should have a “bluesy” feel.
Check this setting for solos with more syncopation, flatted thirds, and sevenths.

Allow RealTracks substitution based on tempo  Default = ✓
When set, the program will find the best RealTracks to use at the current tempo.

Allow RealTracks Shots, Holds, and Pushes  Default = ✓
When set, this song will support Shots, Holds, and Pushes for those RealTracks that have them (as shown in the “H” column of the RealTracks Picker).

**Key Changes (Transposition)**

The key signature of the song is displayed in the Title window.

<table>
<thead>
<tr>
<th>Old Folks at Home</th>
<th>Ab</th>
<th>t = 185 [1 - 32]</th>
<th>3</th>
</tr>
</thead>
</table>

You can quickly type in a key in either the Chordsheet or Notation window. Type tkc and press **Enter** to set the key signature to C. Typing tkbb would set it to Bb. To transpose from another key to Bb you would type **trbb**.

Another way to change the key is to click on the key signature. A popup opens with a list of keys to choose from. Band-in-a-Box then asks if it is “OK to transpose Lead sheet?” Answer [**Yes**] and the entire song will be transposed to a new key. Answer [**No**] and the key signature will change but the song will not be transposed. Select [**Cancel**] to exit without changing the key signature.

**Setting Tempo**

The tempo of the song is displayed on the main screen in the Title window.

<table>
<thead>
<tr>
<th>Old Folks at Home</th>
<th>Ab</th>
<th>t = 185 [1 - 32]</th>
<th>3</th>
</tr>
</thead>
</table>

An easy way to set the tempo is to type it in the Chordsheet or Notation window. Type t125 and press **Enter** to set the tempo to 125, type t80 to set to 80, etc.

Tempo can be set on the computer keyboard with 4 taps of either the minus (-) key or the equals (=) key. When the tempo is tapped on the [=] key, song playback will start automatically at the tapped tempo.

To change the tempo of a song while the song is playing you may use the [ ] and [ ] keys to change the tempo by 5 bpm at a time. Or you can move the mouse pointer over the tempo setting and click the mouse as follows:

The tempo display is broken up into 4 quadrants. Mouse clicking in these four areas will change the tempo by +1, -1, +5, or -5 before or during play.

You can change the tempo at any bar in the song with the **Edit Bar Settings** dialog box. Press **F5** or the keystroke combination **Option+B** or go to **Bar Settings** in the **Edit** menu to open the dialog. The tempo change you enter takes effect at the beginning of the bar and remains until a new tempo change at another bar is inserted.

**Song Intros, Choruses and Endings**

A typical song has the following elements:

- **Introduction (Intro).** If present is typically 4 bars long.
- **Chorus(es).** Typically 3 or 4 choruses in a 3-minute song.
- **Ending.** Typically a 2 bar ending following all of the choruses.

**Note:** We use the term “chorus” as commonly used in Jazz music. A chorus therefore means once through the entire form of the song. A typical length of a chorus is 32 bars. A song may have the form AABA where the A sections are verses and the B section is the bridge. This entire form AABA is called one chorus.

**Adding An Intro.**

You select the beginning and end bars of the chorus. If you select a bar greater than 1 for the first bar of the chorus, then Band-in-a-Box knows that you want the previous bars for an intro.

**Example: 4 bar intro to a song.**

Type in the 4 bars of intro chords, starting at bar 1 of the Chordsheet. Then at bar 5 you will begin typing in the chords of the chorus. Set the beginning of the chorus to bar 5, by selecting the **Chorus begins at** option on the **Song** menu and then clicking on the measure of the first bar of the chorus.
Auto-Generate Intro Bars.

Band-in-a-Box will automatically generate an introduction for any song from the [Intro] toolbar button or the Edit | Intro Bars Auto-Generate menu option (Ctrl+Shift+B). This will create a chord progression that gets inserted as an intro to the song, based on the optional settings you choose.

<table>
<thead>
<tr>
<th>Generate Chords for Intro (or Remove Intro)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chord Types: Jazz</td>
</tr>
<tr>
<td>Intro Length (bars): 4 Bars (Medium Tempos)</td>
</tr>
<tr>
<td>Starting chord (after intro): F6</td>
</tr>
<tr>
<td>Pedal Bass: No Pedal Bass</td>
</tr>
<tr>
<td>Check: Use Maj7 instead of Maj6</td>
</tr>
<tr>
<td>(Re)-Generate Intro Chords</td>
</tr>
<tr>
<td>Remove Intro</td>
</tr>
</tbody>
</table>

Chord Types can be Jazz or Pop.

Intro Length can be 2, 4 or 8 bars to suit the tempo of the song.

Starting Chord (after intro) is lets the intro lead in to the song correctly.

Pedal Bass has a list of pedal bass options, based on the key entered in the box.

Press the [(Re)-Generate Intro Chords] button to auto-generate chords for an intro.

Press the [Remove Intro] button to remove the intro from the song.

The Melodist feature will also generate an introduction for the songs it creates.

Selecting Bars To Begin And End The Chorus.

Bar number for Chorus to begin.

Click on the chorus begin number in the Title window, or select the Chorus begins at option on the Song menu, or press ⌘+b. The message “Click on a Bar #” will start to blink in the toolbar. Mouse click on the bar number to begin the chorus. The bar number that you select will then be displayed.

Bar number for Chorus to end.

Click on the chorus end number in the Title window, or select the Chorus ends at option on the Song menu, or press ⌘+e. The message “Click on a Bar #” will start to blink in the toolbar. Mouse click on the bar number to end the chorus. The bar number that you select will then be displayed.

Number of choruses to play.

Click on the number where the number of choruses are displayed on the Title/Key/Tempo/Chorus Window and select the number of choruses from the Pop-Up Menu or select Total Choruses = from the Song menu or press ⌘+I. The number of choruses will then be displayed.

The Chordsheet

The chordsheet is a spreadsheet where the numbered cells represent bars of music. The chord changes for the song are shown in the corresponding bars.
Chapter 6: Band-in-a-Box PowerGuide

Band-in-a-Box chordsheet area.

As well as entering the chords for your song, the Chordsheet is where you put in style variations, fills, and breaks. The basic procedures for entering information in the Chordsheet follow, but be sure to see the right-click contextual menu for the Chordsheet for alternate methods and additional features.

Quick Song Settings

Typing special words, instead of chord names, in the Chordsheet will make the following settings:

- **begin <Enter>** - sets the beginning of the chorus to the current bar
- **chorusend <Enter>** - sets the end of the chorus to the current bar
- **end <Enter>** - sets the end of the song to the current bar
- **tkc <Enter>** - sets key signature to C, tkbb would set it to Bb
- **trc <Enter>** - transposes song to key of C
- **t125 <Enter>** - sets tempo to 125

Typing Chords

The basic way of entering a song in Band-in-a-Box is by typing the chords for the song into the Chordsheet.

- **C**

The location of the black highlight cell determines where chords will be entered. Use either the mouse or the cursor arrow keys on the computer keyboard to move the chord highlight cell around the Chordsheet. Click on any bar to position the highlight cell, then type in the chords for that bar.

The highlight cell covers two beats, or half a bar in 4/4 time. Two chord names can be typed into the highlight cell (separated by a comma e.g. C, C#dim) so up to four chords per bar may be entered.

To enter a chord, type its name using standard chord symbols (like C, or Fm7, or Bb7, or Bb13#9/E) and press the return key. The chord name(s) you have typed will be entered in the Chordsheet at the current location of the highlight cell. Each time the return key is pressed the highlight cell advances 2 beats, or ½ a measure.

**Note:** To view a list of Band-in-a-Box chord names, please refer to the online Help.

To start typing in chords:
- Go to the top (bar 1) of the Chordsheet by clicking on measure 1.
- Blank the Chordsheet by selecting the “New” option from the File menu, or with the keystrokes ⌘+n.
- The highlight cell will be at the start of bar 1, reposition it if desired.
- When you have the highlight cell positioned where you want to enter a chord type the name of the chord you would like. For example, type c6 to get the C6 chord.

You should never have to use the shift key, as Band-in-a-Box will sort this out for you. Here are some other tips for easy chord entry:

- **Use b for a flat, e.g. Bb7.** It is not necessary to type upper or lower case; the program will sort this out for you.
- **Use # or 3 for a sharp, e.g. F#7.** (# is the uppercase symbol of 3, so you can actually type F37 to get F#7. Band-in-a-Box will sort out the case, saving you the effort of using <SHIFT>3 to type the # symbol).
- **Use / for slash chords with alternate Roots such as C7/E (C7 with E bass).**
- **Use a comma (,) to enter 2 chords in a cell.** In the example below, we would type Ab9,G9 to get the 2 chords in the cell (on beat 3 and 4 of bar 2).
The sequence of keystrokes to enter all these chords above would be c6>am7>dm7>ab9,g9>c6/e>>a739. The > indicates cursor key to the right.

(We are able to type A7#9 as a739 because Band-in-a-Box knows to use the uppercase of the 3, which is #.)

Tip: The fastest way to type in chords is to use your left hand to type in the chords. Your right hand stays on the cursor keys (or mouse) to advance the highlight cell to the next bar/beat after you’ve typed in the chords.

Shortcut Chords.
If you enter a lot of songs, you’ll appreciate these shortcut keys:
- J = Maj7
- H=m7b5 (H stands for Half diminished)
- D=dim
- S=Sus

Example: To type CMaj7, just type CJ (it will be entered as CMaj7).

Add your own chord shortcuts.
Have you found a chord that Band-in-a-Box doesn't recognize? If so, add it to your chord shortcuts file, and Band-in-a-Box will allow you to type in that chord in the future. You can also define chord “shortcuts,” one-letter abbreviations for longer chord names (“J” for “Maj7,” etc.).

To add your own chords and shortcuts, make a text file called shortcut.txt in your Band-in-a-Box folder. Note that this file doesn't ship with Band-in-a-Box; if it did it would overwrite your file! Shortcuts supplied by PG Music are in a file named pgsshortc.txt, which should be used only by PG Music.

If you find a chord that Band-in-a-Box won't accept like Csus2, when it expects C2 instead, you can enter this as a single line in shortcut.txt, “sus2@2” (without the quotes). Band-in-a-Box will then enter the chord C2 if you type in Csus2, in other words you can type in Csus2 and the program will accept it. You can also use it for shortcuts, just as j@maj7 lets you type CJ for CMaj7. See the file pgsshortc.txt for examples of shortcuts.

MIDI Chord Recognition
Another way of entering chords is through MIDI chord recognition. Play any chord on your external MIDI keyboard or MIDI guitar controller and Band-in-a-Box will recognize it instantly and insert it onto the Chordsheet. This allows you to enter an entire song without having to type any of the chords. It’s also a good way to find the right name for a chord.

To use this feature, select the menu command M | Insert current MIDI chord, or press the Ctrl+Enter keys. The last chord you played on your MIDI keyboard controller will be automatically inserted into your song (chordsheet or notation view) at the current cursor location. Then, Band-in-a-Box is ready for the next chord. You can insert up to two chords per bar in this fashion.

Erase Chords
To erase chords, place the highlight cell over top of the chords you would like to erase. Press the [spacebar] once. Then move your cursor to the right or left, or mouse click on another measure and the chord will be erased.

Insert or Delete Bars
Inserting or deleting measures in the Chordsheet saves a lot of copying or re-typing of chords when changes are made to an arrangement. The commands to insert or delete bars from the Chordsheet are:
- To insert bars choose Edit | Insert Measure(s) or Ctrl+i and you can insert a given # of bars.
- To delete bars choose Edit | Delete Measure(s) or Ctrl+d and you can delete a given # of bars.

Breaks: Rests, Shots, and Held Chords
Breaks are points in a song when one or more of the instruments rests, plays a shot, or holds a chord.

Rests
You can have any, some, or all instruments rest at any bar. For example, you could rest all instruments except the bass for the first 4 bars, then add in the piano for 4 bars, and then add in the entire band for the rest of the song. You
may optionally disable the rests in the middle or final choruses (where people are likely taking solos, and rests are not appropriate).

A **chord is specified as a REST by adding 1 period after the chord.**

\[ C. \] indicates a C chord that is a REST.

**Shots**

You can make certain instruments play a “shot” where the chord is played and then a rest follows. For example, the song “Rock Around The Clock” has a shot on beat 1 followed by a rest for 2 bars.

A **chord is specified as a SHOT by adding 2 periods after the chord.**

\[ C.. \] indicates a C chord that is a SHOT.

**Held Chords**

You can specify that certain instruments hold a chord sustained for a certain number of bars. For example, you can have the bass and piano hold a chord sustained while the drums continue to play a pattern

A **chord is HELD by adding 3 periods after the chord.**

\[ C... \] indicates a C chord that is a HELD.

In these examples, bar 1 has a normal chord and bar 2 has a chord with a break on it (a rest, shot, or held chord).

**2 bars of C chord (no break on bar 2).**

![MIDI Staff](image1.png)

This is the usual situation without any break. Note that the piano plays rhythmically on bar 2.

**Rest on bar 2.**

![MIDI Staff](image2.png)

This rests the instruments until the next chord on the Chordsheet. The rest is typed in as a C chord followed by one period.

**A shot is put on bar 6.**

![MIDI Staff](image3.png)

The shot plays a staccato chord on bar 6, and then rests until the next chord on the Chordsheet. The shot is typed as a C chord followed by two periods.
This illustrates a held chord on bar 10.

```
C...
```

The chord on bar 10 is held (sustained) until the next chord on the Chordsheet. The held chord is typed in as a C followed by three periods.

“Breaks” for only some instruments.

You can specify that some instruments not be affected by the break. The coded names for the instruments are:

- **B** for **Bass**
- **D** for **Drums**
- **P** for **Piano**
- **G** for **Guitar**
- **S** for **Strings**

**C.bd** To exempt instruments, add their letters following the break. Typing `c.bd` will put a rest on all instruments EXCEPT the bass and drums.

**C...p** This will put a held chord on all instruments except the piano.

**Pushes**

**Pushes in Styles.**

“Pushes” (also called anticipations) are chords that are played before the beat. For example, in Jazz Swing, the piano player often “pushes” a chord change by playing the chord an eighth note before the beat. Styles can push any instrument so that the instrument plays before the chord begins. This is very common in Jazz and other Pop music, and gives the music a more natural sound.

You need not be concerned with pushes that are in the styles as they happen automatically. You need only to be aware that the styles can push the instruments. This makes styles sound much better, and more syncopated.

**Pushes in Songs.**

Chords can be pushed by an 8th or 16th note. For example, you can specify a chord to occur a 16th note before the beat and all instruments, including drums, will play this.

You can also specify that a chord change should happen before the beat. To do this, you can either use keystrokes, or the chord options dialog box. To use keystrokes:

- Type the caret symbol (^) before the chord. (The caret symbol is located above the 6 on the keyboard).
- Type a single caret to get a chord an eighth note before the beat.
  
  e.g. `^C7`

- Type a double caret to get a chord a sixteenth note before the beat.
  
  e.g. `^^C7`

In Jazz styles (and other triplet feels), the chord will be pushed by a triplet, regardless if there is a single or double caret (`^^`).

**Shots, Holds and Pushes in RealTracks**

Simply type in the chords as you normally would, adding periods (…) for shots and holds, and the RealTracks will play them. Note that for this, you need the LibraryM/Holds folder in your RealTracks folder.

Not all RealTracks styles have shots, holds, and pushes available, so check the “H” column in the RealTracks Picker to see if the style has them.

- If the column is blank they are available and installed.
- If the column shows the letter “n” the Holds files are available but not installed. Check the support pages of the PG Music web site, www.pgmusic.com, for RealTracks updates.
- If the column shows a dash “–” no holds are available for the style.

Assuming that you have the Holds files for the RealTracks that you are generating, then you just use Band-in-a-Box as you would normally, and type chords with shots (e.g. C…), holds (C…) or pushes (^C or ^^C for 8th or 16th note push), or combinations of push and hold (^C…).

**Chord Settings Dialog Box**

Chord settings control the “breaks” in a song when one or more of the instruments rests, plays a shot, or holds a chord. These breaks are all referred to as **Rest Types** in Band-in-a-Box, and they can be entered along with the chord name or with keystrokes. Chords can also be “pushed,” which makes them play early, i.e., ahead of the beat.

There is an alternative to the various keystrokes to put in rest types and pushes for chords. You can use the **Chord Settings** dialog box instead.

Click with your mouse to place the highlight cell on the chord you want to edit. Then, you can get to the dialog box by selecting **Chord Settings** from the Chordsheet right-click contextual menu (shown) or from the **Edit** menu.

![Chord Settings Dialog](image)

The **Chord Settings** dialog also opens with the key combination **Option+Z**.

This dialog allows you to select the various breaks (Rests, Shots, and Held Chords) and pushes by clicking on the relevant Chord Settings.
Beat and Chord
First you need to pick the beat in the bar where the setting will be applied. You can also type in new chords on the different beats.

Pushes
"Pushes" (sometimes called anticipations) are chords that are played before the beat. For example, in Jazz Swing the piano player often pushes a chord change by playing the chord an eighth note before the beat. Depending on the feel for the style in use, chords can be entered on either 16th or 8th note resolution. You can specify a chord to occur a 16th note before the beat for example, and all instruments will play this, including drums.

Rest Types
The Rest Types are No Rest, Rest Only, Shot, and Hold Chord

Rest Only
Rests can specify any, some, or all instruments to rest at any bar. For example, you could rest all instruments except the bass for the first 4 bars, and then add in the piano for 4 bars, and then add in the entire band for the rest of the song. You may optionally disable the rests in the middle or final choruses (where people are likely taking solos, and rests are not appropriate).

Shot
You can specify certain instruments play a ""shot,"" where the chord is played and then a rest follows. For example the song ""Rock Around The Clock"" has a shot on beat 1 followed by a rest for seven beats.

Hold Chord
You can specify that certain instruments hold a chord sustained for a certain number of bars. For example, you can have the bass and piano hold a chord sustained while the drums continue to play a pattern.
Pedal Bass

You can enter pedal bass with any chord. For example, if you are in the key of F and would like to pedal on a C note for 2 bars (on an Fm7 chord), then type in the settings as above. This will play the rhythm specified – in this case the pattern will play on beat 2 and 4.

Other options are <No Pedal Bass>, Beat 2 and 4 Octaves, Beat 1 and 3 (Slow Tempos), Whole Note, and Eighth Notes.

Clear All

The [Clear All] button erases all rests, shots, pushes, and pedal bass from a song.

Copying and Pasting a Section of Chords

Copying a section of chords is done in a manner similar to copying text in a word processor. Highlight the area you would like to affect and select the desired action(s) from the EDIT menu. (See below for additional details.)

Copying chords to the clipboard.
- Select the region to copy.
- Place the mouse cursor at the bar to begin the selection.
- Then, holding down the mouse button, drag the mouse over the region. As you do this, you’ll see that the region will be highlighted (white on black).
- When you have selected (highlighted) the proper region of chords to copy, you can copy the selected region to the clipboard with the keystrokes \ctrl+c, or by selecting Copy from the Edit menu.

Pasting chords to the Chordsheet.

When you have copied some chords to the clipboard you can then paste them into the Chordsheet by:
- Moving the highlight cell to the destination bar where you want to begin the paste of chords. This can be done by clicking that bar with the mouse, or by moving the highlight cell with the cursor arrows on the computer keyboard.
- Press \ctrl+v or select Paste from the Edit menu.

Tip: Remember that the copied section remains in the clipboard and can be used repeatedly. Example: If you’re inputting a song with verse, verse, bridge, verse, you can just copy the first verse to the Clipboard, and then paste in the other verses. The clipboard remains even if you load in a new song, so you can copy and paste between songs.

Copy Chords and/or Melody

Copy and paste the chords, melody, and solo for a range of bars in the Copy Chords and/or Melody dialog.

Press the [Copy] button to launch this dialog box, or select Edit | Copy From.. To, or press Option+C.

The settings allow you to specify the location to copy from, the number of bars to copy, the location to copy to, and the option to copy any or all of the chords, melody, and/or soloist.
Copy Rests
The **Copy Rests** dialog is opened with the *Edit | Copy Rests* menu command. With this feature you can copy the attributes of a chord over a range of other chords. Rests also include shots and held chords. The settings allow you to specify the bar and beat to copy from, the number of bars to copy, and the location to copy to.

<table>
<thead>
<tr>
<th>Copy Rests From Bar</th>
<th>1</th>
<th>Beat #</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td># Bars to Copy</td>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copy To Bar</td>
<td>1</td>
<td>OK</td>
<td>Cancel</td>
</tr>
</tbody>
</table>

**Erase Chords and/or Melody**
To erase chords with additional control for erasing the melody and/or soloist choose *Edit | Erase From.. To..* or press Option+K to launch the **Erase Chords and / or melody** dialog box:

As you can see, you can erase a number of bars of chords and/or melody and/or soloist. If you're erasing the melody and/or soloist, you need to specify which chorus you're erasing.

**Support for Non-Standard Chord display types.**
In addition to the Standard Notation window, you can also enter or display chords in Roman Numeral notation, Nashville notation, Solfeggio notation, or Fixed Do notation.

For example, the chord Gm7 in the key of F would be displayed as IIm7 (in Roman Numeral Notation), 2m7 (in Nashville Notation), and Rem7 in Solfeggio. In Italy and other parts of Europe, chords like C7 are always referred to by the Solfeggio name (“Do 7” for C7) regardless of the key signature.

These systems are very useful for learning or analyzing tunes, because they are independent of the key signature. You can take an existing song and print it out in Roman Numeral Notation, so you can study the chord progression. You can also just type a chord in any of these systems, like “4” which will enter the 4 chord in the current key, and switch between systems without having to retype the chords.

This setting is made by selecting from the “Chord Display Type” list in the **Preferences** dialog. To open the Preferences, select the [Prefs] button or press Option+P or Command+comma.

Click on the “Chord Display Type” box and choose from the list of five options;
1. Normal.
2. Roman Numeral.
3. Nashville Notation.
4. Solfeggio Notation.
5. Fixed Do.
When a new notation mode is selected a message will report the change on the main screen. Click anywhere in the message box to close it.

The Roman numeral and other non-standard displays use superscript for the chord display when in the Notation window (or print out), so they look best in the Notation window.

**Tip:** Print out a song in Nashville Notation or Roman Numeral notation. Then learn the song this way (i.e. 1 minor 4maj7 3m7b5 6 7b9). You'll then discover that it is much easier to play the song in any key.

---

### Part Markers

Part Markers are placed on the Chordsheet to indicate a new part of the song. They are used to change substyles or insert drum fills.

These are part markers. They typically occur every 8 bars or so, but may be placed at the beginning of any bar.

#### Placing Part Markers.

- Move the highlight cell to the bar that you want the part marker at. Then press the letter p on the computer keyboard. Repeatedly pressing the letter p will toggle between the “a” and “b” part markers or no part marker.
- Or you can position the mouse arrow directly over the bar line (or existing part marker). Repeatedly click the mouse button to toggle between “a,” “b,” and no part marker.

#### Changing Substyles.

The part markers also represent the two available substyles (variations) for each style, the “a” substyle and the “b” substyle.

The song continues to play in one substyle until it encounters a new part marker. There will always be a part marker at bar 1 so that Band-in-a-Box knows what substyle to begin with.

Substyle “a” is usually used for the Verses of the song.

Substyle “b” is usually used for the Bridge of the song, and for soloing in the Middle Choruses. All of the middle choruses of the song will automatically play in the “b” substyle. This is great for Jazz songs, allowing you to play swing throughout the middle (soloing) choruses and revert to the “a” substyle for the last chorus.

**Note:** If you want to keep the same substyle in the middle choruses, you would need to uncheck the “Vary Style in Middle Choruses” option in the Additional Song Settings option on the Song menu.

---

### Adding More Substyles

You can add more substyles to an individual song with a right-click on any bar number. This opens the Substyle Change Menu where you can define up to 24 substyles, from “a” to “x.”
MultiStyles
Band-in-a-Box MultiStyles have four substyles, “a” through “d.”

There is a MultiStyles category in the StylePicker that opens a list of available MultiStyles.

Standard Pop song form with 4 substyle MultiStyle
As a general rule for styles with 4 substyles:
- “a” substyle is for the verse.
- “b” substyle is for the chorus.
- “c” substyle is for the intro (or first verse).
- “d” substyle is for the break (or interlude).

Placing Drum Fills.
A one bar drum fill will play in the bar preceding (leading into) a part marker, just as a live drummer will play a fill to accent the transition between sections of a song. If you want a drum fill to play in bar 7 of a song, insert a part marker at bar 8. You can either retain the current substyle or change the substyle (“a” or “b”) when you place the part marker.

Edit Bar Settings
Bar settings let you change meter, tempo, styles, key, volume levels, patches, and harmonies at any bar. They are a powerful tool for adding variety and dynamics to create a highly professional finished arrangement in Band-in-a-Box.

After you have selected a bar, press the F5 function key or the keystrokes Option+B, or select Bar Settings from the Edit menu, to open the Edit bar settings dialog. Settings such as number of beats per bar, tempo changes, style changes, patch changes, and harmony changes can be made in this dialog.

Tip: If the F5 key (or F8 key) does not perform the expected function in Band-in-a-Box you will need to go to the Apple System Preferences and uncheck the system setting in the Keyboard Shortcuts list.
When making any changes to a measure using the **Edit bar settings** dialog box, Band-in-a-Box will place a colored indicator box around the measure number of the edited measure.

**Settings apply to Chorus #** is a setting that lets you apply the changes at the specified bar in all choruses or just in the chorus you choose.

**# beats this bar** sets the number of beats in a bar.

The initial time signature of the song is determined by the style (e.g. Jazz =4/4, Waltz =3/4). In certain songs you will want to insert time signature changes at a certain bar. For example you might want a single bar of 2/4, or 8 bars of 3/4 etc.

This option allows a change of time signature during a song. The change takes place at the beginning of the bar and continues until a new time signature change is specified. You can select # beats per bar from 1 to 4 beats per bar. A setting of 0 beats/bar is used for no change of time signature.

**Examples:**
- A song in 4/4 time with a single bar of 6/4 time. Since the maximum # beats per bar is = 4 we will split the 6/4 bars into 2 bars, a 4/4 bar and a 2/4 bar. Insert a # beats per bar = 2 at the beginning of the 2/4 bar and then restore the time signature to 4/4 by assigning # beats per bar = 4 for the next bar.

A song in 5/4 time throughout: To do this we will alternately create a 3/4 bar + 2/4 bars. On odd numbered bars insert a # beats per bar = 3, and on even bars insert # of beats per bar = 2. This needs to be done for every bar.

**Style Changes at any Bar**
You can specify a new style at any bar of the song, so that you can use many styles within the same song. To change styles at any bar:
- Move the cursor highlight bar to the bar for the style change.
- Press the **F5** key to open the **Edit bar settings** dialog (or choose the Edit | Bar Settings menu command, or use the keystrokes **Option+B**).

[**STY...**] Use the [Style...] button to select a style using the **StylePicker** dialog.

[***.sty...**] Use the [* .sty] button to select a style from a folder on your hard drive. You should select a style that is present in the Styles folder in Band-in-a-Box (or the same folder where the song resides).

[**NR_CURR+.STY**] The name of the new style you choose will be displayed.

[**Clear Style Change**] To remove the style change at this bar, press the **[Clear Style Change]** button.

[**Send patches with style change**] There is an option to send the embedded patches in the style with the style change. Disable this checkbox if you want to keep the patches that you have already selected.

**Note:** If you want to mix styles with 3/4 and 4/4 time signatures you should make the main style used in the song a 4/4 style. You could then change back to 3/4 at bar 1 if you want.

When you select a style change, you'll notice that there is a red frame drawn around the bar line. This indicates that there is a style change (or other change at that bar) found in the **Edit bar settings** dialog.

**RealDrums Changes at any Bar**
RealDrums can be changed at any bar, either for the whole song or just for the selected chorus. To select the new RealDrums style, press the [**R.Drums**] button. This will open the **RealDrums Picker** where you can choose from a full list of RealDrums or filter the list to narrow your selection.

[**JazzBrushesSticks**] You’ll see the new style name displayed onscreen.

[**Clear RealDrums change**] To remove the change click on [Clear RealDrums change].

**Tempo Change At This Bar**
Most songs will have a single tempo throughout, but if you want to change the tempo at a certain bar of the song, then use this dialog box to type in the new tempo in beats per minute. Or type in a relative tempo change in a range...
of –90 to +100. A setting of –50 halves the tempo, a setting of 100 doubles it.

Tempo can also be set by clicking on the metronome button. Clicking on this button 4 times will set the tempo to your tapped-in value. The tempo change takes effect at the beginning of the bar and remains until a new tempo change at another bar is inserted.

Volume Changes

Volume levels can be changed at any bar, either for All parts or for each part individually.

Changes can be entered manually, or selected from presets.

The presets include settings to Mute a part, to reset the volume Back to Normal, and to automatically fade levels.

Patch Changes at any Bar.

This setting allows you to insert a patch change at the beginning of any bar. Type the General MIDI number of the patch change in the appropriate box (i.e. Bass, Soloist, etc.) that you want to affect.

Note: To save a song with patch changes at the beginning of the song you should use the Edit | Save Song with Patches… dialog instead of this one.

Harmony Changes at this Bar

You can insert harmony changes into the song at any bar and beat. For example, start the song with “no harmony” then have “SuperSax” come in on the bridge, then “Shearing” on the next chorus, etc. This is also effective when used with the Soloist on the Thru part. With this setting, you can have multiple types of horn section solos (i.e. Brass, Sax, etc.) or harmonized distortion guitar effects for guitar solos.

Clear Changes

The [Clear Bar] button clears all changes from the current bar, as determined by the location of the highlight cell on the Chordsheet.

Press the [Clear all Bars] button to remove all changes in all bars in the song.

Chord Preview/Builder

You can instantly hear how any chord sounds by selecting it in the Chordsheet and pressing Shift+Return, or use the “Chord Builder” feature to audition different chords until you find the one that sounds best to you. In other words, you can enter chords “by ear” without having to know the actual chord names or any music theory. This feature also illustrates the differences between various chord types.

 Previewing Chords

This feature allows you to hear chords as you to type them in. When you are entering chords onto the Chordsheet (or notation window), after you type a chord name, press Shift+Return. This enters the chord onto the Chordsheet and then plays the chord for you, using the patches on the Piano part and Bass part. You can also listen to a chord that has already been entered, by just pressing Shift+Return after moving to that bar with the chord. If there is no chord entered at that bar, you will hear the last chord that was entered.
You can also preview chords from the **Chord Settings** dialog. Press **Option+Z** to launch the dialog, and then press the [Preview] button to hear the current chord in the Chord Options dialog.

Chord Builder

This feature allows you to hear and build chords up by clicking on the root, extension (and alternate root if applicable). You can launch the chord builder by choosing the **User | Chord Builder** menu option or with the keystrokes **Ctrl+Shift+H**.

You'll then see the following **Chord Builder** dialog:

You can click on the root of the chord (in the “Root” group), the extension (Maj7 etc.), and also an alternate “slash-note” root. For example, to make the chord F9/A, you would click on the “F” root, the “9” extension, and the Slash Root of /A. As you click on them, you'll hear the bass note played on the Bass part, and the extension played on the Piano track.

If you are happy with the sound of the chord, you can press the **[Enter Chord]** button to enter the chord at the bar and beat specified. If you would like the chord to be inserted automatically when you click on the note/extension names, select the “Enter chord when clicked” option. Change the Bar/Beat settings to enter at a different bar.

The **Chord Builder** can be left open as you work entering chords into Band-in-a-Box. Remember that you can also play chords in from the MIDI keyboard by pressing **Ctrl+Enter** after you've played a chord on the keyboard.

Chordsheet Contextual Menu

The Chordsheet contextual menu opens with a right click or **Control+click** on the Chordsheet area.
In addition to quick access to editing features it also includes shortcuts to major features for editing arrangements and making program settings.

Chords can be copied, pasted, cut, or erased and new chords can be entered from the Chord Builder.

The Chord Settings allow pushes, rests, and pedal bass to be applied.

The Bar Settings let you refine your arrangement with changes in tempo, meter, key signature, styles, RealDrums, volume levels, patches, and harmonies.

Song Settings allow rests and pushes, and also control tags, endings, and fadeouts.

Global system settings are accessed in the Preferences.

You can select bars for the beginning and end of the chorus, and for the song ending.

Start playback from the bar that is selected in any chorus.

---

**MIDI file “Chord Wizard”**

This allows you to read in the chords from any MIDI file and write them onto the Band-in-a-Box chordsheet.

- First, blank the song by choosing File | New.
- Choose File | Import Chords from MIDI File (or press Ctrl+Option+I).
- You'll see this Chord Wizard dialog:
Press the [Open (Change)…] button, and select the MIDI file to import.

Choose a preset, and the Chord Wizard will interpret the chords in that style.

Press the [INTERPRET CHORDS NOW] button to see the chords written into the Band-in-a-Box chordsheet.

Chord Wizard results – interpreting from a Standard MIDI File.

The dialog has options to read channels into the Melody and/or Soloist tracks.

Read in Chords from a PG Music or Band-in-a-Box MIDI file.

Many of PG Music’s programs have MIDI files with the chords in them. You can open these files in Band-in-a-Box, and the chords will be imported onto the Chordsheet. To import the chords from a PG Music MIDI file (i.e. a MIDI file made by Band-in-a-Box, PowerTracks Pro or some other PG Music programs), choose the menu item File | Import Chords from MIDI File and select “OK to use PG Music chord names from MIDI file.” The chords will then appear on the lead sheet starting at bar 1, overwriting any chords that were there previously.

“Jazz Up” the Chords; “Jazz Down” the Chords.

When switching genres (from Pop to Jazz, or Jazz to Pop), it’s often necessary to change the chords from “Pop/Rock” chords (C) to Jazz type chords (Like CMaj7). Now you can quickly do this, by new menu options called “Jazz Up,” “Jazz Down.” Choose the menu item User | “Jazz Up” … or User | “Jazz Down” … to do this:

- “Jazz Up” - This function simply converts triads to 7th chords, producing a lead sheet more suitable for Jazz. If you have a song with triad chords like C or Dm, you can choose to “Jazz Up” the chords. When you do this, you get an option of whether you’d like to see Maj7, Maj6 or Dominant 7th for the major triads.
- “Jazz Down” - This function converts 7th chords to triads, for a lead sheet more suited to Pop music.

Applying Styles

There are many styles available for use with the Band-in-a-Box program. For the purposes of this program, styles refer to styles of music, i.e. Jazz Swing, Tango, Blues, Pop Ballad, etc. Either before or after you have entered the chords to a song, you will have to pick one of these styles. Once a style is loaded, the song will be played back in that style.
The name of the current style appears under the name of the song in the Title window. It is also displayed under User | Current Style and information on the current style can be viewed by selecting Style Information... from the User menu.

The favorite styles button [F] activates a window that keeps a list of the 150 styles you have used most recently. The [F] button launches the Favorites / Recently Played dialog. (User | Load Favorite Styles... also opens this window.)

The “Favorites” and “Recently Played” Radio buttons toggle between a list of your recently played styles and your Favorite songs styles. This lets you quickly load in styles that have been used your last few sessions with Band-in-a-Box.

The favorites list will start off as an empty one, but you can add songs/styles as your favorites by clicking the [Add Favorite] button. (This button is also found in the StylePicker.)

Check the “Play When Chosen” checkbox to have Band-in-a-Box play your song immediately upon selecting a style.

When “OK to add recent files” is checked, Band-in-a-Box automatically adds styles to the list.

Use the [Search] button to save time scrolling up and down the list.
When you have made your selection, press [OK] to load the chosen style. Click on [Cancel] to return to the main screen without changing the style.

**Types of Styles**

Band-in-a-Box originally used MIDI styles, with well over one thousand available in a wide variety of musical genres. This version also includes RealStyles with audio tracks generated from live recordings of top studio musicians.

**Built-In MIDI Styles**

For a quick generic choice that will give you a good general idea of how your arrangement sounds, you can use the original Styles menu to pick a “built-in” style.

The first 24 styles that we made were built into the program, and are still referred to as “Built-in Styles.” These styles are no longer built into the program, making them editable like all other Band-in-a-Box styles.

The built-in styles may be selected from the Styles pull down menu. They are a convenient way to quickly apply a basic style to a song.

**User MIDI Styles**

The other styles that we make are called user styles because they are editable.

The user styles may be selected,
- by clicking on the [Style] button, or
- from the Sty pull down menu, or
- by selecting Load Style from Disk... from the User menu, or
- by pressing $u$.

Holding down control or option while clicking on the style load button will restrict the files to (A-K) or (L-Z).

These instructions are given in a message if an overflow of too many files has occurred. This works wherever you load in styles with a File | Open type of dialog.

**RealStyles (Audio)**

RealStyles are styles that use RealTracks and RealDrums with audio tracks generated from live recordings by top studio musicians. There is also a category for Styles w/ RealTracks, which use a mix of audio and MIDI tracks.

**Styles with RealDrums** use MIDI instruments with audio RealDrums.

Styles can also be selected by mouse clicking directly on the name of the style in the Title window. The Select Style window (StylePicker) will appear.

**The StylePicker**

The Select Style window, also known as the StylePicker, is opened by pressing the [Style] button. It lists all of the styles that are present in the Band-in-a-Box folder. The StylePicker window opens up at the current style.
The **StylePicker** allows easy selection of styles by category or from a complete list of all styles. For example, you can select Jazz styles and see a list of all of your Jazz styles. Then you can select any style to see its full title, description, and examples of songs appropriate to the style.

**Select Style Prototype Style = ZZJAZZ.STY**

The current style of the song is listed at the top of the window; in this case it is the Jazz Swing style (ZZJAZZ.Style). This is referred to as the Prototype Style.

The prototype style can be changed to the current selection that is highlighted in the list by pressing the [*Change Prototype Style*] button.

There are filters to display only styles of a certain “Feel” or “Tempo” or only the styles of a certain Styles Set number, as well as displaying the name of the Styles Set. To select this, open the **StylePicker**, and choose the option you want with the “Show Styles:” setting.

When you pick Disk #, you can then see only that Styles Set listed, regardless of the category you are in.

**RealTracks and Styles with RealTracks**

RealTracks, live audio recordings by top studio players and recording artists, replace MIDI tracks and can be controlled just like MIDI instruments (volume changes, muting, etc.). Best of all, they follow the chord progression that you have entered, generating an authentic audio accompaniment to your song. They are not “samples,” but are full recordings, lasting from 1 to 8 bars at a time, playing along in perfect sync with the other Band-in-a-Box tracks. RealTracks can be built in to styles to replace some or all of the MIDI parts.

**RealStyles** are Band-in-a-Box styles that use RealTracks only. There is a separate category in the StylePicker for RealStyles.
It also lists **Styles with RealTracks**, a blend of MIDI tracks and RealTracks, with subsets for different musical genres.

The style names for RealStyles are prefaced by an underscore, `_`.

* _J140_GE_ sw 8 140 Jazz Swing Combo (140 RS)

Style names for Styles with RealTracks are prefaced by an equals sign, `=`.

* =TEONE_B_ sw 8 130 Jazzy Blues w/ AcBass (140 RT)

**Styles with RealDrums**

The StylePicker has another category called **Styles with RealDrums**. This lists many RealDrums styles that we’ve made. We always name the RealDrums style beginning with a minus sign, so that “-ZZJAZZ.STY” would be the ZZJAZZ style, but using RealDrums instead of MIDI drums.

**MultiStyles**

Original Band-in-a-Box styles had two substyle variations, “a” and “b.” Band-in-a-Box MultiStyles have four substyles, “a” through “d.” There is a MultiStyles category in the StylePicker that opens a list of your available MultiStyles. The Memo describes each substyle variation.

**Standard Pop song form with 4 substyle MultiStyle**

As a general rule for styles with 4 substyles:
- “a” substyle is for the verse.
- “b” substyle is for the chorus.
- “c” substyle is for the intro (or first verse).
- “d” substyle is for the break (or interlude).

**Choosing Styles**

For each style, you see the following information:

*ZZJAZZ* sw 8 140 Jazz Swing Style  SD# 0

- The asterisk (*) or (^) caret indicates if the style is a perfect or good match to the prototype style.
- ZZJAZZ is the name of the style file.
- “sw” indicates that the style is in a Swing feel vs. “EV” for Even feel.
- The “8” indicates that the style is an 8th note feel (vs. 16th note feel).
- 160 is the tempo for this style.
- Jazz Swing Style is the full name of the style.
- SD #0 indicates that the style is found on Styles Disk #0, one of the original 24 Band-in-a-Box styles.
Styles that are similar to the prototype are indicated with an asterisk (*). These are styles that have the same feel (triplets/eighths/sixteenths) and a similar tempo range. Styles with similar feel but a different tempo range are marked by a caret (^) symbol. So you can quickly see styles that are similar to Jazz Swing (in this example). The styles J_BASIE and J_DIXIE could be substituted with a perfect match so are marked with an asterisk (*). Styles like J_DJANGO are marked with a caret (^) because they sound best in a much faster tempo than the prototype Jazz Swing style.

Use the filters to display all styles, or only ones that you choose.

| Show Styles: | If 'Feel' and Tempo Match Prototype |
| Disk #: | #68 Requested 8 |

Click on the OK button to make your selection.

Auditioning Styles

You can press the [Preview] button. The [Preview] button generates and plays an arrangement with the new style; use the [Stop] button to end the preview.

Change the tempo by typing in a new tempo in the t= field at the top.

Click to update the tempo.

The [Song Demo] button plays the style demo song directly from the StylePicker window.

You can [Reduce] or [Expand] the duration of the chords, useful when changing the feel of songs.

If the “Prompt With Preview” item is set, the program will ask you if you want to change the feel of the song's melody, or auto-reduce/expand the chord durations when the styles change.

When a new style is previewed, patches appropriate to the new style get loaded in if you have selected “Auto Change Melody/Soloist Patch.”

So when you load in a “Chopin Piano Style” the Melody patch of your song will change to Piano. This allows the song to blend in with the new style.

When this option is set you can double click on a style name in the list to hear a preview of your song in the new style.

Other Options

Check this checkbox to play the selected song as soon as you press [OK].

Select this option and when you choose a style with the song playing, it will switch to the new style and continue playing!

When this option is checked, the prototype style will be the style that is currently assigned to the song.

List Management

This adds the currently selected style to the list of Favorite styles. Favorites have a letter “F” beside their name in the left column of the Styles list, they also appear in the Favorite Styles dialog.

If this option is selected, only styles that are favorites will appear in the Styles list.

If you have added new styles to Band-in-a-Box (or edited the BBW.LST file) the StylePicker’s [Re-Build] button will update the styles list.
This will copy the Styles List to the clipboard. It can then be printed as a text file from any word processor.

This sets the StylePicker to show all styles. It is an easy way to restore the full list after a filter has been applied.

The [Search] button lets you find data in any of the fields.

Click on the [OK] button to make your selection.

**Support for Third Party Styles**

Third party styles with LS3 files are supported in the StylePicker. LS3 files have the information for Third Party styles. If you have third party styles and an LS3 file from the third party, add these files to the Data folder. Then press the Rebuild button inside the StylePicker, to see your styles listed.

**About LS3 Files**

LS3 files add information to the StylePicker dialog about your styles. The LS3 files are for third party added styles and style data descriptions.

An LS3 file cannot exceed 65,000 bytes (65K). If you need more, use 2 LS3 files. The style data and descriptions show up in the style picker dialog.

- Lines beginning with @ are for style descriptions (memos etc.).
- Lines beginning with the 3 chars ;;@ are for the style data.

More information on the format of the style data line is found at pgmusic.com/styledata.htm.

Here's a summary of the style data line (on the next 4 lines):

; stylename,soloist# to use (1-255),soloist type to use (see list on web),double time OK (false/true),
; time sign. (3 or 4),straight or swing (sw/ev),16ths or 8ths (8/16),tempolow (30-500),
; tempo high range (30-500), tempo mid range (30-500), style disk # (0-30000) PG uses 1-255),
; melody patch to use (1-128 or higher-see list on web),soloist patch to use (1-128 or higher-see list).

Choose a “Built-In” style or click on the [User Song+Style] button to choose from the file dialog.

**Style Aliases**

Let's say you have a new style for Jazz called “Dizzy.” You can create an alias so that when Band-in-a-Box looks for a Jazz Swing style, it will load in “Dizzy” instead, so you don't have to change all your songs that were made with the old style. And when you find a new favorite style, just change the alias.

Aliases are accessed by the **MIDI | Style Aliases**... menu item.
To make an alias, click on the **Choose** button under the “Original Style” heading to select the original style in the Styles folder. Then click on the **Choose** button under “Substitution” to select the style you would like to substitute in its place.

The **Clear** button will clear the styles chosen for the style alias that is currently selected in the “List of Style Aliases.”

You can temporarily disable the Style Aliases feature by unchecking the “Allow Any Style Aliases” checkbox. You can also have confirmation of substitutions by checking the “Confirm Substitutions” checkbox.

When you are using an alias, you will notice that there will be a small arrowhead in the Title window on the main screen indicating that you have an alias loaded. Aliases are stored in files called *.ALI.

> Alias for ZZJAZZ.Style indicated by the > symbol.

### Playing, Pausing, and Stopping Songs

#### Playing Songs

There are several ways to play a song in Band-in-a-Box, either starting from the beginning or from a specified place in the song.

To generate a new Band-in-a-Box arrangement and play the song from the start you can either,
- Press the **Play** button, or
- Press the keystrokes `Ctrl+a`, or
- Press the **F4** function key, or
- Select the menu command **Song | Play**.

To play a song in Band-in-a-Box from a particular measure,
- Press the **From** button and select the bar from which to play, or
- With the song stopped, type the letter `x` on the computer keyboard to restart from the current location of the highlight cell, or
- Select **Play From Bar #** from the **Song** menu, or
- Press `Ctrl+F`.

Double clicking on the spreadsheet or notation will start playback from that point, without re-generating the song (unless needed due to a change in the song).

#### Replay

Replay plays a song without constructing it first. To replay a song in Band-in-a-Box,
- Press the **Replay** button, or
- **Select Replay Already Constructed Song** from the **File** menu, or
- Press the keystrokes `Ctrl+r`, or
- Press the `x` key.

#### Pausing Songs

There are several ways to pause a Band-in-a-Box song.
- Press the **Pause** button.
- **Select Hold (Pause)** from the **Song** menu.
- Press the `delete` key.
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### Stopping Songs

To stop a Band-in-a-Box song:
- Press the `[Stop]` button, or
- Select the `Stop` option from the `Song` menu, or
- Press the `esc` key.

### Changing Volume, Panning, Reverb, Chorus, Bank

To change the volume, panning, reverb, chorus, or bank of a part:

1. Select the part by clicking on the desired part to change.
2. Then click in the box for the desired setting to affect.
3. Clicking on the number in the box will change the value by 1. To increase the setting, click on the upper half of the number. Click on the lower half of the number to decrease the setting by 1.
4. Clicking on the gray vertical bars to the right of the box will increase or decrease the setting by 5, except for Bank settings. Bank numbers start at 0 and then go up by multiples of 8 (8, 16, 24, 32, etc.) until they reach 127.
5. The range of settings is from 0 to 127 except for Pan, which goes from –63 (hard left) to 64 (hard right) with 0 in the center of the stereo field.

Another option is to **Control+click** on the name of the setting to open a dialog box where you can directly type in a value.

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**Clicking on the piano keyboard** sets the Volume of the current instrument, and the range is the same range as the piano (0 to 127), i.e., a click on the bottom C sets a value of 0 and the top B is value 127.

The default setting is Volume, but for other settings like REV, CHR, PAN, or BANK click on the label first and then set your levels by clicking keys on the piano keyboard. For PAN, the lowest key (C) sets a value of -63 and the top key (B) is 64.

**Tone Control**
The RealTracks bass/treble tone control adjusts the bass/treble EQ for any RealTrack.

Choose an instrument (bass/drums/piano/guitar/strings/melody) and then use the “TONE” control to adjust the tone from -18 (maximum bass) to +18 (maximum treble). Default is 0. The settings are saved with the song.

**Audio Reverb**
There is a Reverb control for individual tracks with RealTracks or RealDrums, so you can easily add reverb (0 to 127) for any RealTrack. Reverb type is also settable, and saved with the song.
At the top of the screen, there is an “A.REV” (Audio Reverb) control. Click on an instrument radio button, and then set the Audio Reverb for it. The Audio Reverb varies from 0 to 127.

Note that this only applies to RealTracks, since MIDI tracks have MIDI Reverb, which is set via a “REV” control.

You can adjust the value by clicking a key on the on-screen piano keyboard. Or right-click (or control-click) the control to enter a value. There is also a feature that automatically adds reverb to RealTracks, according to instrument type. (No Reverb is added to Bass for example, but most instruments get reverb.)

This feature defaults to on, but you can turn it off in RealTracks Settings or Reverb Settings dialog.

If you just want more or less added, you can adjust the “Strength %.” For example, the default adds a reverb of 40 to most tracks, but if you set the strength to 75%, then 30 will get added.

You can also set the type of reverb. The default is a “room” type of reverb.

To do this, press the Audio Reverb button, and adjust the various parameters.

You can then save your reverb types as presets, and the current settings will also be saved with the song. The presets all gets saved to a PGReverbSettings.bin file in Band-in-a-Box/Preferences folder.

You can enable/disable Reverb. If you disable it, this will save some CPU cycles, so this might be advisable on an older/slower machine, if you hear that the audio is clicking or not keeping up.

**Freeze Tracks**

Freezing (locking) MIDI or RealTracks/RealDrums

Any track (MIDI or RealTrack) can be frozen. When frozen, it doesn’t get changed or re-generated. This saves time when replaying previous songs, and allows you to freeze an arrangement that you like.
If you freeze the whole song, you don’t have to wait at all for the song to regenerate. Next time you play, it is ready to go.

You can make tracks Frozen by pressing the Freeze button (snowflake) on the toolbar, and then choosing which tracks that you want to freeze or unfreeze.

There are a number of reasons that you would freeze a track.

Reasons to Freeze a RealTracks track (audio):
- Frozen tracks will play back instantly, not requiring time to generate.
- They play back the same way each time, so if you like a solo, you can “freeze it.”
- If you send a song to a friend as “frozen,” they will hear the same performance.
- For the Soloist track, if you generate a solo, it can now be saved (by freezing the track).

Reasons to Freeze a MIDI track:
- You can edit the MIDI data, to customize the performance to match a certain song, and this will be saved. Use the Notation window or Piano Roll to edit the track.

More reasons to freeze any track:
- Frozen tracks play back instantly, without requiring time to regenerate.
- They play back the same way each time.
- You can change the chord progression of the song, and have one part playing a different chord progression than the rest of the band. For example, type a “blowing” chord progression, generate a solo, freeze the solo track, then type a normal chord progression and generate the rest of the instruments (bass, guitar etc.) that will play the normal changes.
- Have different instruments play different styles. For example, the Bass could be generated using Reggae, then Frozen, and then the rest of the instruments generated using a Techno style.

Un-Freezing a Track(s)

This is also done by the Freeze button. Choose a frozen track to un-freeze it, or choose “Un-Freeze all tracks.”

Forcing Generation of a Song that is Frozen

Band-in-a-Box won’t touch tracks that are frozen. But if you want to change that, without having to Un-Freeze the tracks, you can do this easily.

Hold down the SHIFT key as you press the [Play] button (the fly-by hint will remind you of that), or go to the Song menu and choose Generate (even if tracks are frozen).
When you do this, the song will regenerate, the tracks will get rewritten, and the song will stay frozen. So if you’re freezing songs to get the instant playback with RealTracks, but get tired of the “same-old” frozen arrangement, just press SHIFT-PLAY, generate a new arrangement, and press SAVE. Then the new “fresh-frozen” arrangement will play instantly, even with many RealTracks.

**Tip**: Obviously you wouldn’t use this feature to force regeneration of a frozen song if you have made custom edits to the song that you don’t want to lose, unless you’ve saved the song and have a backup copy.

## Saving Songs

### Saving a Song

Once you have made a song, or have made changes to a song, you can easily save the song if you

- Click on one of the Save buttons, or
- Press the F2 function key, or
- Choose *Save* or *Save song As...* from the *File* menu, or
- Press `Ctrl+s`.

Then type the filename for the song. Don’t add the extension; Band-in-a-Box adds it for you. The extension .SGU indicates a Band-in-a-Box song; the extension .MGU indicates a Band-in-a-Box song with a melody.

### Saving song with Patches...

You can save your song with patches and other settings. This is done by selecting the [Save +] button or the *Save song with Patches...* option from the *File* menu. If you would like to save certain patches with a song type in the number of the instrument patch that you would like. Leave the other instruments at “0” for no patch change.
**Fill Patches**
To fill the patch boxes with your current patch settings, press the [Fill Patches] button. This saves you having to type in the patches to save with songs.
controller settings, harmonies, Soloist, mixer settings, and RealDrums style in a particular song.
You can also save the instruments as “On” or “Off” for each song. For example, you could have a song with no piano part. Usually, these settings are set to “On,” as you would normally like all members of your “band” to participate.
To change a patch click on the down arrow beside the patch name and make a selection from the General MIDI patch list.

Forgot the number of the patch you wanted? No problem. Just click on the [View Patches] button and up pops your numbered patch list.

**Tip:** Remember that - as with all other Band-in-a-Box patch functions - you use the General MIDI #’s for the instrument, regardless of the synth you are using.

**Fill Patches**
To fill the patch boxes with your current patch settings, press the [Fill Patches] button. This saves you having to select the patches to save with songs.

**Zeros**
Click on this button to clear all patch changes, then no patch changes will occur.

**Frozen**
This will set the track into a frozen state where it gets saved with the specific arrangement and won’t get overwritten by Band-in-a-Box. You can still edit the frozen track.
Use the [All] button to set all tracks to Frozen.
The [None] button set all tracks to not-frozen (normal).

**Save Settings for…**
Other parameters that can be saved (volume, reverb, etc.) are shown on the right side of the window.

You can save all settings, including patches, by selecting “Save all settings with Songs.” Uncheck this box to customize the settings that are saved with the song.
Storing Volume, Reverb, Panning, Chorus, and/or Bank Settings

You can optionally save these MIDI controller settings with your songs. You can make, for example, a song with the piano a little quieter than usual, add reverb to the melody patch, or pan the bass to one side, etc. Simply choose the parameters you want to save with a song and press the [Save Song] button when you are ready.

You can also choose to Save current Melody and Soloist patches with every song.

Save Current Melody Harmony with song and Save Current Thru Harmony with song will save the current selections and reload them the next time you open the song.

Save Soloist w/song will save the Soloist track with the song.

Save/Load Thru settings with songs saves the Thru patch, volume, reverb, etc. Normally you wouldn’t save these settings with songs.

For this song only, use this RealDrum style lets you assign a specific RealDrums style to your song. Press the [RD] button to choose the RealDrums style.

For this song only, force MIDI drums will always use MIDI drums, not RealDrums, with the song.

When you have made all your settings, click on [Save Song] and they will be saved with the song.

Saving a MIDI file

Your song can be saved as a Standard MIDI file with the [.MID] button in the toolbar, or with the menu command File | Save Standard MIDI File..., or with the keystrokes Option+S. Save the file to disk or to the clipboard.

Choose which tracks get written to the MIDI File.

By muting tracks with Option+Click on the track name at the top of the screen, you can decide which tracks get written to the MIDI file. Any track that is muted is excluded from the MIDI file.

See the Preferences dialog for MIDI file options. For example, if you don't want to create a MIDI file containing the first 2 bars of the 1—2—1-2-3-4 count-in you can select this option, and the MIDI file will begin directly at bar 1 without the count-in. If there is a Melody pickup, then the 2 bar lead-in will remain in the file.

Preferences – User Settings

Use the Preferences to set the user options for the program.

The settings are all saved in the /Band-in-a-Box/Preferences folder in a file named Band-in-a-Box Preferences_X86. If this file is removed the program will require the same setup as when it was first installed. This can be a way of removing unwanted settings for a “fresh start.”

Select the [Prefs] button or press Option+P or Command+comma to go to the Preferences dialogs. There are buttons for Preferences, Preferences 2, Soloist Prefs, Reverb, and DAW Plugin settings.

Preferences Dialog (Preferences 1)

Boost Vel. of Pushes by

The pushes in Band-in-a-Box are the chords that get played before the beat. Typically, pushes are played a little louder than other patterns. You can leave this setting at 0, or set it to between 0 and 10.
Show Chords with push/rest chars

The push character is the caret symbol (^). So a C chord with a push is displayed as ^C. The rest character is a period (.), so C. shows a C chord with a rest.

If you prefer not to see these characters displayed, then set this to false. These characters won't show up on the printout regardless of this setting.

Show Rests in color

If checked, pushes are displayed in GREEN, and rests are displayed in RED. This only applies to the Chordsheet (not the notation).

Allow any Rests

You can disable the rests feature. You might want to do this if you've got a song with a lot of rests in it, and are then having difficulty recording a melody because you don't hear the drums providing the beat (due to the drums resting). If so, you can temporarily disable the rests so that you can record and listen to the drums.

Allow any Pushes

If for some reason you don't want a style or a song to have pushes, you can uncheck this box.

Allow Style Pushes

If for some reason you don't want a style to have pushes, you can uncheck this box.

Chord Display Type

This box allows for non-standard display of chords on the Chordsheet area. The options here allow for Normal (standard notation), Roman Numeral notation, Nashville notation, Solfeggio notation and Fixed Do notation.

When a new notation mode is selected a message will report the change on the main screen. Click anywhere in the message box to close it.
Allow Lead In Bars
People who use Band-in-a-Box for soloing practice will likely turn the lead-in off to allow endless looping uninterrupted by the lead-in count.

Play Lead In even if Intro present.

If a song has an intro, it’s usually not necessary to play the 2 bar lead-in count. There's a new option to always omit the lead-in if an intro is present. If you would like the lead-in bars to be played even if an intro is present in the song, set this feature to “On.”

Lead-in Type
You can specify to have Band-in-a-Box play 2 bars of a drum pattern instead of the count-in. You may prefer hearing the drum beat to a simple count-in, since it provides more information about the upcoming groove.

Audible Lead In / Volume
Use these settings for the audible drum count-in. You can select any drum instrument for the count-in. You can choose different count-in rhythms (e.g. Tap on 2 and 4 instead of 1-2-3-4).

Instrument
Choose your pick of drum instruments for the lead-in count.

Pattern
Choose the pattern for your lead-in count from the dropdown list.

Smart Lead-ins
Smart lead-ins can also be set here; they avoid playing the count-in drum sound during a Melody pickup.

Lead-in Drum count if drums muted
This is great for drummers who play along with Band-in-a-Box and mute the drum track. Previously, when the drum track was muted or disabled in a song, the count-in drum click wouldn't play. Use this option to play the drum count-in in all circumstances.
Metronome During Recording
Select this to hear the metronome while recording.

Allow Any Endings
Song endings can be turned off for all songs, or on a song-by-song basis.
To turn song endings off for all songs uncheck the “Allow Any Endings” option.
To turn the song ending off for a single song select the Additional Song Settings option from the Song menu and uncheck “Generate 2 Bar Ending for This Song.”

SpaceBar Key

These different functions can be assigned to the spacebar. The default is to play from the current position, which will also stop play when the spacebar is pressed during playback.

OK to Load Harmony w/songs
If checked, the harmony settings for each song will be loaded and saved with each song. If set to NO, the harmony setting won’t be saved or loaded with the songs. If you are using a certain harmony, you should set this setting to NO, otherwise you’ll have to keep re-selecting the harmony when you load in new songs.

Change Harmony with new chords
Example: If a harmony is played on bar 1 on a C chord, and then the note is held as the chord changes to a Fm7 chord, (if this setting checked) the harmony notes will change so that they will be still be playing chord tones. If they don’t the harmony sounds dissonant. Leave this setting checked, unless you have a specific reason to disable it. The harmony is changed by moving the voices to the nearest chord tone.

Harmony Volume Adjust
Raise or lower the overall volume of the Harmony with a range of –128 to 128.

OK to Load Style with songs
Leave this unchecked to audition the same style with several different songs.

Use MSB for Bank (Roland)
Band-in-a-Box sends General MIDI bank changes in two ways. Most synths (e.g. Roland, Korg, Kawai) use the Controller 0 for the bank. This is the MSB (Most Significant Byte) method. Check this option if you are using one of these synths. Some synths use Controller 32 for the bank (e.g. Peavey). This is the LSB (Least Significant Byte) method. If you have one of these synths, then uncheck the “Use MSB for Bank (Roland).”

Tip: If your synth requires both MSB and LSB bank changes, use the ‘+’ button (patches on higher banks).

Pause Play until MIDI note/event (or QWERTY key) received
Allows playback to be started from another keyboard or the computer keyboard. The Band-in-a-Box arrangement will be generated, and then the program will pause until the MIDI or keystroke signal is received.

Close window when not in BB
Closes the Band-in-a-Box window when the Finder or another program is chosen.

Include Patch Changes in MIDI files
This will include the patch (instrument changes).

Include 2 bar lead-in in MIDI file
If you don’t want to create a MIDI file containing the first two bars of the 1—2—1-2-3-4 count-in you can select this option, and the MIDI file will begin directly at bar 1 without the count-in. If there is a Melody pickup, then the two bar lead-in will remain in the file.

Include Controllers (Reverb/Chorus/pan)
This will include the reverb, chorus, and panning settings.
Include Forced Channel Meta Event
This will include the forced channel META event. It is recognized by PowerTracks Pro Audio and other PG Music programs only.

Write Chords, Part Markers Meta event
Writes the chords and part markers to the MIDI file.

Include Guitar Position Controller
This will insert a controller 84 which PG Music uses to indicate the fret position. Since some synths also use this for “Portamento Control,” you should use this setting with caution.

Write Soloist Part on channel 5
Normally the program writes the Soloist part on channel 8. Since that could also mean the left hand of a piano track using the convention of channel 8/9 for piano, this option allows you to write it on channel 5 instead.

Write Harmony to MIDI file
If checked, the harmony will be written to the MIDI file. If not, just the melody will be written to the MIDI file.

MIDI file Harmony separate tracks
If checked, the harmony will be written to the MIDI file on separate tracks for each voice. You could use this to print out individual parts to your printer for example.

Write Guitar part on 6 channels
If set to YES, the styles that are Intelligent Guitar Styles will result in a MIDI file that has the Guitar part written on six channels (11-16). Then, when you read it in PowerTracks, or another sequencer that uses the convention of 11-16 for guitar strings, the guitar part will display correctly.

If song has RealDrums, also generate MIDI drums
is an option when saving a Band-in-a-Box arrangement to a MIDI (*.MID) file. It can be unchecked if your song uses RealDrums and you don’t want MIDI drums included in the MIDI file.

If song has RealDrums, generate xxxx_RealDrums.AIFF audio
saves the RealDrums (which are audio) as a separate AIFF file. This allows you to easily import the entire Band-in-a-Box song into another program for editing.

Number of Levels of Undo
Set the number of levels of undo from 5 to 999. Undo takes up memory, so don’t use huge values unless you have a lot of memory or make a lot of mistakes.

More Preferences – Preferences 2
More preferences are accessed with the [Preferences 2] button in the Preferences dialog.
Click on [Preferences 1] or [Soloist Prefs] to jump to the dialogs for those settings.

OK to save/load rev/vol/chorus w/songs
Offers global control over additional song settings (i.e. reverb, chorus, etc) that can be saved and/or loaded with each song.

Send GM mode at startup
For sound modules that are GM compatible, this command will ensure that the module is ready to accept GM-specific MIDI data such as Bank, Controller, and Patch information.

Send GS Mode On at startup
For sound modules that are GS compatible, this command will ensure that the module is ready to accept GS-specific MIDI data such as Bank, Controller, and Patch information.

Send XG Mode On at startup
For sound modules that are XG compatible, this command will ensure that the module is ready to accept XG-specific MIDI data such as Bank, Controller, and Patch information.
Turn External Keyboard’s Local On at end of session

Normally while using Band-in-a-Box the “local-off” setting for your MIDI keyboard is best, since the THRU part will be coming from Band-in-a-Box and you don't want to hear your MIDI keyboard doubling the notes that are being played. However, when you exit Band-in-a-Box, you might want the “local on” setting for your synthesizer turned back on. This option defaults to true.

OK to beep with messages

Now that computers have better speaker systems, a simple “beep” when an incorrect key is pressed can seem loud enough to “wake your neighbors.” Setting the “silent beep” option allows Band-in-a-Box to visually flash the window title bar to get your attention, instead of generating an audible “beep.”

OK to prompt to reduce/expand

If a style is changed with a different feel (16th notes instead of 8th notes), Band-in-a-Box will automatically offer to expand or reduce the duration of the chords, and change the tempo to accommodate the new style. This also works as the song is playing.

Lowest Bass Note (E2 = default)

Styles will normally play bass notes (down to the low E) if the pattern won't go below a low E. This happens with all styles automatically, but there is also an option to set the lowest bass note real low so you can get a low C if you want to!

My soundcard or MIDI doesn't have brushes – remap them

Most GM modules have brushes available on patch 41 on the drums. On some, you need to load a GS sound font for this to occur. On the Yamaha XG, you likely need to send a “GS mode on” message from the GM menu in Band-in-a-Box. But if your module just doesn't have brushes available, then you can set this option, and the style will remap the notes to different drum instruments that don't have brushes.

For Roman Numerals in minor keys, use relative major

Option for minor keys base roman numerals on the relative major.

For example in key of Am, Am is either the Im chord or the VIm chord.
Save Button on main screen works as Save As
The [Save] button will launch the file dialog where the location and name of the file being saved can be changed.

Name MIDI files with .MID extension
This will append the file extension .MID to MIDI files saved in Band-in-a-Box, rather than prefacing them with SMF (Standard MIDI File).

Allow larger fonts on Chordsheet
Display larger fonts, particularly with higher screen resolution.

Color for Chordsheet Area
Make your choice from a list of colors for the Chordsheet area. The keystrokes Ctrl+Shift+C will toggle through the colors from the main screen without opening the Preferences 2 dialog.

Help Tags
Help tags are short messages that appear if you leave the mouse pointer hovering over an interface element for a few seconds. When the pointer leaves the object, the tag vanishes. If the mouse pointer is not moved, the operating system hides the help tag after about 10 seconds.

Use these settings to enable help tags, and to set the delay time in mS before a tag opens.

Normalize MIDI velocities to…
If performing live, or at a jam session, it helps to have the volume of all of the songs be similar. With the “Normalize MIDI velocities” feature, you can level the volumes to a setting you enter. For example, you can set all volumes to be 70 and the program will make each song play within those levels.

[Normalized Velocity=70, was 69]
Normalization for the Melody and Soloist tracks is optional, if you want their MIDI velocities left “as-is” you can uncheck the Also normalize Melody, Soloist box.

Insert Breaks (silence) in arrangement, also called Chord Breaks, is a great feature for practicing tempo control.
Select the # of bars, and Band-in-a-Box will play for, say 4 bars (selectable), and then will rest all instruments for the next 4 bars. Once set, this feature works automatically with all songs until you turn it off.
During the silence, you keep playing (comping, drums, melody, etc.), trying to stay in tempo. Drummers can mute the drum part.
When the band comes back in after the 4 bars, you’ll get instant feedback on how well you have maintained the tempo, if the band comes in time with you or not.
Once set, this feature works automatically with all songs until you turn it off.

Allow Lyrics display during playback
When lyrics are present (Edit | Enter Lyrics at Current Bar) this setting will open the lyrics window and show two lines of scrolling lyrics as the song plays.

Soloist Prefs…
The More Soloist Settings dialog can be opened with either the [Soloist Prefs] button in the Preferences dialogs, or the [More] button in the Select Soloist dialog.

Use MIDI Volume for Soloist Wizard
Set to “true” if you want MIDI velocity information sent to the Soloing Wizard. If you have a velocity sensitive MIDI device attached to your computer and you want to control the dynamics of the Soloist, you should enable this feature.

Trigger Playback Early
Set to “true” to enable song playback to start before the Soloist has actually completed composing a solo. Setting this setting to “false” (disabled) will instruct Band-in-a-Box to completely compose a solo before song playback begins.
Soloist – Prefer Long phrases
Set the checkbox to “true” (enabled) if you would like the Soloist to use the longest musical phrases it knows. (Note: this option may also increase Soloist creation times. Disable this feature if you are using a slower or low-memory equipped computer.)

Velocity Adjust
The “Soloist Velocity Adjust” and “Melodist Velocity Adjust” boxes allow you to quickly boost or reduce the volume of the Soloist or Melodist part relative to the other instrument parts.
For a realistic mix, they are set slightly louder than the other instrument parts in a song. The default is 5.

OK to treat the V Major triad as a V7
Since the V chord is usually played as a 7th, this allows better playing on V chords. You can disable it for Rock or Blues songs that use the major triad.

Reverb
This button opens the Reverb Settings dialog with audio reverb settings for RealTracks and RealDrums.
Select from presets, apply custom settings, and save your own presets in this dialog.

You can enable/disable the audio reverb. If you disable it, this will save some CPU cycles, so this might be advisable on an older/slower machine if you hear that the audio is clicking or not keeping up.

Click on the green Select a Preset button to open the list of presets. This list will show only the “Band-in-a-Box Default Reverb” until you save some presets of your own.
As you adjust the settings, they will be applied to the current song. The [Swap “Default”] button toggles between your current settings and the default settings. This allows you to hear the effect of the changes you make to the settings.

Use the row of “room” buttons to load typical settings for different types of spaces. These buttons are a convenient way either to apply a particular effect or to load settings that you can then tweak to make your own preset.

Reverb Parameters
- **Pre-Delay** is the time delay of first reflections.
- **Decay** is the time it takes for reverb to decay. Reverb time is measured as RT60, the time it takes for reverb to decay to a level -60 dB below the dry signal level.
- **LF Rolloff** gradually reduces the bass frequencies. If you can’t add enough reverb because the sound gets too muddy, try increasing the LF Rolloff slider. It is adjustable between 50 Hz and 500 Hz.
- **HF Rolloff** is the rate at which the high frequencies die away as the reverb decays. Rooms with hard surfaces are typically bright, but rooms with soft surfaces are usually darker. It is adjustable between 1 KHz (dark) to 11 KHz (bright).
- **Density** is the density of low-level echoes near the end of the reverb tail. High Density settings add sheen to the sound.
- **Level** adjusts the final level of the plug-in.

Typical Reverb Settings
- A large hall might have long Pre-Delay, long Decay, and moderate Density.
- A hard large space, such as a gymnasium, might have long Pre-Delay, high Density and high HF Rolloff.
- A soft large space, such as a concert hall with carpet, padded seats, hangings, might have medium Density and low HF Rolloff.
- A small hard space, such as a tile washroom, might have short Pre-Delay, medium-to-long Decay, high Density, and high HF Rolloff.
- A small soft space, such as a large living room, might have short Pre-Delay, short Decay, medium-to-low Density, and low HF Rolloff.

**Saving Settings to Presets**

You can save your reverb types as presets, and the current settings will be saved with the song in a Preferences/PGReverbSettings.bin file.

To save the current settings to a preset, type in a name for your preset in the “Preset Name” field.

Then click on the red **Save a Preset** arrow and choose a location in the Preset list. You can write over an existing name.

A prompt will ask you to confirm that you want to save the preset.

Select **[Yes]** to save the new preset to the chosen location.

**Auto Reverb**

Enable “Auto-Add Reverb to RealTracks” to automatically apply preset amounts of reverb to RealTracks according to the instrument type. No reverb is added to the Bass part, for example, but most instruments get reverb.

If you just want more or less reverb added overall, you can adjust the “Strength %.” For example, the default Band-in-a-Box reverb setting is 40 for most tracks. If you set the strength to 75%, the Band-in-a-Box becomes 30.

You can save the current settings as the Default Reverb.

Click on **[Restore Defaults]** to go back to the original “factory” reverb settings for Band-in-a-Box Default Reverb.

**DAW Plug-In Mode**

There is a “plug-in” mode for your favorite sequencer (GarageBand, ProTools, Logic, Nuendo, Reaper and more). With the plug-in mode, Band-in-a-Box is open as a small window, and acts as a plug-in for your favorite DAW.
sequencer, so you can drag and drop MIDI and audio (AIFF, M4A) tracks from Band-in-a-Box to your favorite sequencer.

The DAW Plug-in mode is a mode within the regular Band-in-a-Box program. This mode allows you to transfer tracks or parts of tracks, to other DAW sequencers or Finder.

You can enter and exit the DAW plug-in mode easily.

Press the [DAW Mode] button on the Toolbar, then choose the menu item “Start DAW Plug-in mode” (or go to the Windows menu and choose Plug-in Mode for Sequencer-DAW).

When you do this:

1. Window size of Band-in-a-Box changes to a small size (you can resize it to the size/position that you want, and it will remember that).
2. You can now easily drag tracks from Band-in-a-Box to your DAW in 2-steps. First, drag the track button to the drop station (blue rectangle), and then when it turns green, drag that to your DAW’s track.

You can also drag files to other programs, besides DAW’s, if they accept a drop of audio files (AIFF, M4A) or MIDI files. For example, Finder allows this. For this documentation, we will use Finder as an example.

Dragging Tracks from Band-in-a-Box to Finder (or a DAW).

1. Run Band-in-a-Box. Enable Plug-in mode as explained above.
2. Open (or make) a song in Band-in-a-Box.
3. COMBO (MASTER) TRACK.

   If you want the entire performance dragged to Finder, drag the Combo button to the drop station. Then when it turns green, drag to Finder.

   ![Combo button](image1.png)

   ![Drag Combo (Master) track as audio](image2.png)

   It will be dragged as audio, unless you have set it to be dragged as MIDI in Plugin Settings dialog.

   ![Drag Combo as separate tracks](image3.png)

   Normally, a single file is dropped, with the entire arrangement, but if you want all tracks transferred as separate files, you can enable this option in Plugin Settings dialog. (Note that your DAW will need to support dropping of multiple files, and will typically put them on consecutive tracks.)

4. SINGLE TRACKS.

   If you want a single track transferred, drag that track button to the drop station. (For example, drag the Bass button to transfer the bass track.) Then when the drop station turns green, drag that to Finder.

   If the track is a RealTrack (green), then it will be transferred as Audio. If it is a MIDI track (black), then it will be transferred as MIDI.

   ![Drag individual MIDI tracks as audio](image4.png)

   (Note: If you want MIDI tracks transferred as audio, you can set this in Plugin Settings dialog.)

5. SELECTED REGIONS.

   If you would like to transfer only a portion of the performance, you can do this by selecting the region in Band-in-a-Box and then dragging the track button to the drop station (don’t drag the selected region). You will then get just the selected region dragged to Finder.

   ![BbMaj Gm7](image5.png)

   Tip: If you hold the SHIFT key during the drag, then the file will be dropped as MIDI (if it is a MIDI track), regardless of the setting in Plug-in options.

   Tip: If you hold the CONTROL key during the drag, then the file will be dropped as AUDIO (if it is a MIDI track, it will be rendered to audio using Apple Synth), regardless of the setting in Plug-in options.
Plug-In Options

To get to the DAW Plug-in options, press the [DAW Mode] button and choose the menu item “Options for DAW Plug-in” or go to the Preferences dialog and click the [DAW Plugin] button. You will then see the plug-in options.

![Plug-In Options](image)

Allow Drag and Drop (default=true) If disabled, the Drag and Drop feature will not work. There shouldn’t be a reason to disable this.

Drag individual MIDI tracks as audio (default=false) When enabled, the chosen MIDI tracks get converted to audio, using Apple Synth.

Drag Combo (Master) track as audio (default=true) When enabled, the entire arrangement gets converted to audio, using Apple Synth. If not selected, the MIDI tracks in the arrangement get transferred as MIDI, in a single file.

Drag Combo as separate tracks (default=false) If set to true, when dragging the Combo button, the drop will result in multiple files, one for each track.

Drag Audio as m4a files If set to true, the audio gets dropped as m4a.

Show DragDrop Folder This will show Finder where the dropped files reside. When you drag a file to your DAW, the file is created on disk and stored in the DragDrop folder inside the Band-in-a-Box folder.

Erase DragDrop Folder This will erase (trash) all of the dragged audio/MIDI files in the DragDrop folder. Note that some DAW sequencers require these files to reside permanently (or until you use a “consolidate” command in the DAW), so don’t erase these files unless you are sure that they are not needed.

Note the tips for forcing MIDI or forcing audio when dragging. Holding Shift forces MIDI, holding Control forces audio.

Other Editing Features

Shrink/Expand

The Shrink command will reduce durations of chords by ½ (e.g., 4beats>>2beats, 2beats>>1beat). Expand doubles the durations of chords (e.g., 1beat>>2beats, 2beats>>4beats).
**Unfold (convert to 1 big chorus)**

If you have a song with 3 choruses, and want to convert it to a single large chorus, this command “unfolds” the song into just that; one BIG chorus. This is useful for customizing a song.

When selected, Band-in-a-Box will display all choruses and verses of a song without loops or repeats. This is a useful command if you wish to make use of the Patch/Harmony change at any bar feature, or if you are going to generate a MIDI file for use with a sequencer or sequencing program.

**Slide Tracks**

This dialog opens with the command *Edit | Slide Tracks*. It allows you to move any of the bass, drums, piano, guitar, strings, melody or the soloist track ahead or behind by a certain amount.

![Slide Tracks dialog](image)

Setting these numbers will slide the entire track ahead or behind by the # of ticks (120 ticks per beat). You could, for example, slide the bass track so it plays a little ahead of the rest of the band. This has the effect of making the bass player “drive the band” and is useful in Jazz styles to make the music sound more exciting.

**Allow Any Slides**

If you want the slides to occur, then check this box.

**Humanize Slides**

If this box is checked, the slides will be randomized to slide the track a different amount for each note. The amount varies from 0 ticks to the slide setting for the instrument. A track that always plays notes early by a certain amount tends to sound out of time, whereas randomizing the slide makes the track sounds more human.

If the song is currently playing, you can press the [Update] button to hear any changes you have made.

This returns all fields to factory default settings. The default settings are as shown in the illustration.

This enters a value of zero for all fields.

**Song Memo…**

A song memo of up to 2000 characters may be added with your own notes about the song and the Band-in-a-Box song summary. Clicking on the [M] button located to the right of the song title launches the **Song Memo** dialog.
where you can type in a short memo about the song, style, etc.
A red border around the [M] button indicates that the song has a memo. The keystrokes Option+M will also launch the **Song Memo**.

**Automatic Song Summary**
The Song Summary panel automatically displays a full summary of the song (title/tempo/patches used in the song), as well as other special features, such as substyle patch changes or harmonies and MIDI or Real instruments/drum in use. This saves much of the work required to type this information into the memo manually.

**Enter/Copy/Move Lyrics**
These features enable the typing, editing, and exporting of song lyrics.

**Edit Chord Shortcut.txt**
This will edit the file SHORTCUT.TXT using Teach Text. This is the chord shortcuts file. Make sure to save the file after editing. Changes won't take effect until you choose **Edit | Refresh Chord Shortcuts**.

If you find a chord that Band-in-a-Box won't accept like Csus2, when it expects C2 instead, you can enter this on a single line (without the quotes) “sus2@2.” Then Band-in-a-Box will enter the chord C2 if you type in Csus2. These allow someone to type in Csus2 and the program will accept it. You can also use it for shortcuts, like if you entered j@maj7, Band-in-a-Box would let you type Cj for CMaj7. See the file pgshortc.txt in the Band-in-a-Box folder for examples of shortcuts.

**Refresh Chord Shortcuts**
After editing chord shortcuts in the SHORTCUT.TXT file you must use this command to save the changes.

**MIDI Setup**

**Connecting to MIDI**
Here is an illustration of the connections for a MIDI system using a MIDI Interface to connect to an external MIDI synthesizer.

- **The MIDI interface** transmits information between the computer and your synthesizer.
- **The Synthesizer or Sound Module** (e.g. Roland Sound Canvas) produces the musical instrument sounds. Band-in-a-Box tells it what notes to play and how to play them.
- **Stereo Speakers or Headphones** are connected to your synthesizer so that you may hear the music.

The **Band-in-a-Box** program running on your computer sends a stream of MIDI data via the **MIDI Driver** to your MIDI interface.
Your MIDI setup could also be configured to use the built-in sounds of QuickTime Musical Instruments, or a virtual software synthesizer such as the Apple DLS.

There are also MIDI systems such as OMS and FreeMIDI that can be configured by the user. (FreeMIDI and OMS are supported only in Band-In-A-Box OS9, booted from Mac Classic.) If they are present on your system, they will appear in the Band-in-a-Box MIDI Drivers dialog.

**Selecting a MIDI Driver**

Band-in-a-Box automatically detects the MIDI drivers installed in your system. The MIDI | **Select MIDI Driver or Apple DLS Synth** menu command opens the MIDI Drivers dialog, which lists the drivers that have been detected.

Selecting “Apple DLS Synth” plays your MIDI tracks through the high quality built-in Apple DLS Music Device, or software synthesizer. No special configuration should be necessary.

“MacOS X CoreMIDI” lets you configure a custom setup with other software synths or external MIDI devices. The CoreMIDI and Apple DLS Synth chapter gives detailed instructions for your MIDI setup.

The settings are:

- **CHANNELS**: Range 0 to 16. (If set to 0, part will be Off).
  Some synths (e.g. MT32), give higher priority to lower channel #s, so if you are “running out of notes” you should assign important parts (e.g. Melody) a lower channel than other parts (e.g. Guitar).

- **OCTAVE**: This adjusts the octave of the part. Range is -2 to +2, usually set to 0. (Bass is usually set to -1 for General MIDI instruments.)

- **PATCH**: Range 0 to 127. These are General MIDI patch numbers. You do not type in the patch numbers of your synthesizer. (The patch map handles mapping of the General MIDI patch numbers to your non-GM synthesizer's patch numbers.)

- **VOLUME**: Range 0 to 127. Typical volume setting is = 90.

- **REVERB**: Range 0 to 127. Typical setting = 40.

- **CHORUS**: Range of 0 to 127. Typical setting = 0.

- **PAN**: Panning refers to the left/right stereo placement. Range is –63 (hard left) to +64 (hard right). A setting of 0 is centered.

Click on [MIDI Drivers Help] to go to the CoreMIDI and Apple DLS Synth help tutorial.
Press the **Harmony** button to launch the **Harmony Channels** dialog box.

```
<table>
<thead>
<tr>
<th>Instrument</th>
<th>Pitch</th>
<th>Channel</th>
<th>Octave</th>
<th>Patch</th>
<th>Volume</th>
<th>Reverb</th>
<th>Chorus</th>
<th>Pan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bass</td>
<td></td>
<td>2</td>
<td>-1</td>
<td>33</td>
<td>127</td>
<td>40</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Piano</td>
<td></td>
<td>3</td>
<td>0</td>
<td>1</td>
<td>127</td>
<td>55</td>
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<td>0</td>
<td>127</td>
<td>40</td>
<td>0</td>
<td>0</td>
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<td>25</td>
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<td>70</td>
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<td>1</td>
<td>127</td>
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<td></td>
<td>5</td>
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<td>0</td>
<td>127</td>
<td>40</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
```

Harmony Channels:

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<table>
<thead>
<tr>
<th>Harmony Channel</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melody Harmony B</td>
<td>11</td>
</tr>
<tr>
<td>Melody Harmony C</td>
<td>12</td>
</tr>
<tr>
<td>Thru Harmony B</td>
<td>13</td>
</tr>
<tr>
<td>Thru Harmony C</td>
<td>14</td>
</tr>
</tbody>
</table>
```

**Harmony**
- Piano Display
- Color Notes
- MIDI (sync)
- Overall Volume Changes
- Style Volume Changes
- Extra Note Offs

**Concert Pitch** Adjust: 0

**Boost THRU velocity by** 0

[View GS Map]

[OK] [Cancel]
Setting the Harmony Channels

Melody Harmony Channel A  Always uses the Melody channel.
Melody Harmony Channel B  Default = 11
Melody Harmony Channel C  Default = 12
Thru Harmony Channel A  Always uses the Thru channel.
Thru Harmony Channel B  Default = 13
Thru Harmony Channel C  Default = 14

Band-in-a-Box already uses 7 channels (Bass, Drums, Piano, Guitar, Strings, Melody and Thru channels). Adding these 4 harmony channels produces potentially 11 channels of information. If you have a modern module that receives on all channels, then you can use these defaults.

Older modules capable of playing only 8 parts at once (like an MT32 or a Korg M1) won't be able to take advantage of the harmony using different instruments. In this case, you should set the harmony channels as follows:

Melody Harmony Channel A  Uses the Melody Channel, no need to set.
Melody Harmony Channel B  Need to Set equal to Melody Channel.
Melody Harmony Channel C  Need to Set equal to Melody Channel.
Thru Harmony Channel A  Uses the Thru Channel, no need to set.
Thru Harmony Channel B  Need to Set equal to Thru Channel.
Thru Harmony Channel C  Need to Set equal to Thru Channel.

If you do this, then you don't need to do any other modifications to your Band-in-a-Box setup, because it is not using any new channels.

Piano Display:  Default = ☑
Uncheck this box if you don’t want to see notes played on the onscreen piano keyboard.

Color Notes?:  Default = ☑
The notes that play on the onscreen piano are usually in different colors for each part. Bass – Aqua, Piano – Blue, Guitar – Green letter G, Strings – Pink letter S, Melody – Red letter M, Solo – Red letter S. Uncheck this box to show them all in black and white.

Allow Patch Changes:  Default = ☑
Do not check this box if you want to disable All Patch changes. If you haven't made a patch map, you should disable this.

Style GS Patch Changes:  Default = ☑
Styles frequently come with patch changes. If you want to disable these, uncheck this box.

MIDI (sync):  Default = ☐
To synchronize Band-in-a-Box with an external sequencer, check this box.

Overall Volume Changes:  Default = ☑
To prevent any changes of volume inside Band-in-a-Box, uncheck this box.

Style Volume Changes:  Default = ☑
Styles occasionally come with volume changes. To prevent these, uncheck this box.

Extra Note Offs:  Default = ☐
Leave this box unchecked unless you are having trouble with stuck notes when you press [Stop]. If you check this box, Band-in-a-Box will send a sweep of all notes off.

Concert Pitch Adjust:  Default = 0
This is useful for non-concert instruments such as Saxophone or Trumpet. The output is transposed so that you see the music in one key, and it plays in another.
Trumpet players and other Bb instruments should set Concert Pitch Adjust to -2 (i.e. minus 2). Alto Sax and other Eb instruments should set Concert Pitch Adjust to +3.

Here's an example of an Alto player using Band-in-a-Box by setting the concert pitch adjust to +3.

If the song is in the concert key of C transpose the song to A using the key signature box on the main screen. The song will display in the key of A, but with the Concert Pitch Adjust set to +3 it will play 3 semitones higher, in the key of C. So the Alto player can read the music in the transposed key while hearing it in the concert key. The song can also be printed out in the key of A.

The [View GS Map] button opens a list of General MIDI patch numbers for quick reference.

Boost THRU velocity by

If the sound of your keyboard is too quiet when playing along with Band-in-a-Box, and increasing the THRU Volume doesn't help enough, use this option to boost the THRU velocity and make your THRU playing louder. (For example, non-velocity sensitive keyboards are usually set to output a quiet velocity of 64).

Output Chords to External Device

Some external music hardware devices require chords played in root position to drive them in real time. An example of this is the Digitech Vocalist. It will let you sing into a microphone and harmonize your voice according to the chords that are input to the device. Band-in-a-Box now has the capability of outputting a separate channel with the chords in root position to support such external devices automatically. There are also settings such as complexity of chords, output channel, velocity, and note range. Band-in-a-Box will also drive “Real Time Arrangers” like the Roland RA series.

The best way to accomplish this is to access the MIDI | Output chords to external device... menu item. You will then be given a window like the following:
Click on the [Vocalist] button if you have such a device connected to your MIDI system. Band-in-a-Box will then send it the appropriate chord information automatically as your song is playing (e.g., root position triads) and the Vocalist will harmonize your voice according to the root position chords that Band-in-a-Box is sending to it.

For any other devices, you will need to know a little more information as to what your external device needs to “see” for it to function correctly, such as channel, velocity, chord type, etc. Then type the appropriate values in the spaces provided in the Output Chords To External Device window (shown above).

The JukeBox

Overview of the Jukebox

The Jukebox will Load and Play an entire folder of songs. Songs play continuously, one after the other. The Jukebox will continue to play while you move to other programs, so you can use the Jukebox to provide background music for your Macintosh!

To play the Jukebox, click on the toolbar button, press Command + J, or choose Juke Box Play from the Song menu to open the Juke Box Options dialog. Then choose how you want your songs to be selected and played.

Make your choices of options as described below, and then click on the [Play Juke Box] button to start the Jukebox playing.

Press the ▼ and ▲ arrows onscreen, or the ? or ? keys to select the “Previous Juke Song” or the “Next Juke Song” respectively, or choose these options from the Song menu.

Jukebox Options

- Include Songs without Melodies: If checked, the program plays songs with and without melodies - that is songs within the Songs folder. If not checked, the Jukebox will include only songs with the MG? extension.

- Audible lead-in: While listening to the Jukebox, you might not want to hear the count-in click. If not checked, you won't hear the count-in click.

- Vary Melody Instrument: Hearing a song after a song is played with the same melody instrument would get a little monotonous. If you check this option, the program will randomly change the melody instrument between your favorites.
Use Tap in click to start: This option is used to control when the next song starts and allows you to control the tempo of the song. See options below “Set Cue/Tap Options.”

Hide Song Name: This feature is used to play the “Guess the Song” game. When checked, the titles are hidden until you click the title. When someone guesses the Song Title, you can click in the Title box to verify if he/she is correct. You’ll probably want to restrict the Jukebox to only songs with melodies unless you can guess songs without melodies!

Random Play/Alphabetical: If set to “Random” the songs will be played in random order (without repeating songs). If set to “Alphabetical” the songs will be played in alphabetical order from the Songs folder.

Change Harmony w/each song: If selected a harmony will be automatically selected for each song that plays in the Jukebox. Use the “Harmony # range” settings to choose from a particular section of the Harmony list.

Generate Solos: Set this option to “On” to permit the Soloist to play a solo over all the songs selected for Jukebox playback.

We have created a special Jukebox directory of songs that showcase the many Soloists available. Take a moment to hear this showcase by following these steps:

1. Change to this directory by loading/opening a song from the Soloist DEMO folder, but instead of playing the song you have loaded press the [Juke] button.
2. Ensure that the “Generate Solos” checkbox is set selected (checked). If you enable “Auto-Choose Soloists” the program will select an appropriate Soloist for each Jukebox song. “Change Soloist w/each chorus” instructs the program to choose different Soloists for each chorus of a song. For example, if Band-in-a-Box encounters a three chorus Jazz tune during jukebox playback, the program might choose a Saxophone solo for the first chorus, a Trumpet for the next, and a Guitar or Piano for the last chorus.
3. When you select [Play Juke Box] the Select Soloist dialog will pop up with a suggestion to use a Soloist for the first song in the jukebox list. This is normal. Press [OK] to accept the Soloist suggestion. (The Jukebox will not bother you with the Select Soloist dialog again; it will simply choose an appropriate Soloist for any given song in the Jukebox song list.)

(Preview) Switch to next song after [ ] Bars

Use this setting to preview the songs in a Jukebox list. Band-in-a-Box will play each song in the folder for the number of bars you enter into the box. Use a setting of 99 bars to play one chorus of each song.
Chapter 7: Notation and Printing

Band-in-a-Box offers a variety of notation and printing features for viewing parts on-screen as they play, editing MIDI tracks, and for printing parts as sheet music.

**Notation**

The grand staff notation scrolls by onscreen as the song plays. A time bar indicates the song position while notes highlight in red as they play. The onscreen notation allows you to follow and read along as the song plays. It’s a great way to practice your sight reading or sight singing.

Band-in-a-Box notation features engraver spacing for clean, uncluttered display without note overlap. It handles Jazz eighth notes and triplet figures correctly. Automatic options like “auto durations,” “clean notation,” “mono display,” “minimize rests,” and “engraver spacing” produce very musical and readable notation. The Notation window is also a powerful editing tool.

In Editable Notation mode, notes can be entered in step time (clicking with the mouse on the staff, or on the onscreen piano), or in real time from a MIDI keyboard. Drag and drop editing allows notes to be changed and moved. There is also a Staff Roll mode, similar to a piano roll.

The Staff Roll mode supports moving and changing of MIDI notes, plus it allows the editing of note velocity and duration. This is a very powerful feature for fine tuning the dynamics of a performance.

A number of Notation Options let you format your notation display and choose which elements of the notation to display or hide.

**Printing**

Print out any combination of chords, notes, and lyrics (or blank paper)!

You choose what to print out (notes / chords / lyrics / bar numbers), and what clefs to include (treble / bass). You can print out the first chorus, last chorus or the whole song. Margins are available, so you can make a left margin to produce a printout to go into a 3-hole binder for example.

Band-in-a-Box prints a lead sheet style of notation, so it will attempt to auto-fit your song onto one page. Use this feature to print a library of your favorite songs.

**Notation**

**Opening and Closing the Notation Window**

![Notation Window](image)

To get to the Notation inside Band-in-a-Box you need to open the Notation window. You can do this by pressing the [Notation] button. You can also open the Notation window from the menu (File | Notation Window) or by pressing Ctrl+w.

You can also open the Notation window from the menu items File | Notation Window, Windows | Notation Window, or by pressing Command+w.

The Notation window covers the previous window (the Chordsheet) and is fixed (not movable). It is sizable, when the size of the Band-in-a-Box window changes the Notation window redraws in proportion to the new size.

Close the Notation window by pressing the [Notation] button again.

**Notation Window Toolbar**

The toolbar at the top of the Notation Window gives you access to most of the functions.
Options

The options button launches the **Notation Windows Settings** dialog, where notation display options are set.

Notation Mode

This is an important button. It is the **Notation Mode** button. This toggles between the 3 modes of the Notation window, **Standard Notation mode**, **Editable Notation mode**, and **Staff Roll mode**.

Print Options

Press this button to Print the Notation to any standard printer supported by the Macintosh. (If you haven't set up your printer to work with any other MAC programs, then you'll need to select a printer in the Chooser.) This launches a dialog box that lets you set options for printing (described elsewhere).

Current Note

This box displays the name of the note that the mouse is currently over. This is the note that will be inserted when you click to insert a note.

Note or Rest Checkbox

These determine whether a Note or a Rest will be inserted when a mouse is clicked.

Mono Mode

When this checkbox is selected, the notation is entered as monophonic (one note only). This is useful for melodies that only have one note playing at a time.

Mono mode is a faster way to enter notes, because the Notation Window will automatically delete a note that is present at the same location that you are putting a new note on. So if you have mistakenly put a B note on as a C, you just click on the B note, and if in mono mode the C will be deleted automatically.

“Clean” Notation

When music has been played in from a MIDI keyboard, there are frequently effects like grace notes, glitches, and notes played off time.

The Clean Notation mode is an intelligent feature that “Cleans Up The Notation” for you. It does this by eliminating the display of grace notes and glitches, and also simplifies the Notation display so it is more readable.

Clean Notation doesn't affect the actual content of the track, just how it is displayed. In general, this should be on, since it improves the display. But if you want to see every grace note or glitch that was played, then turn it off.

Looping the Notation Screen

While a song is playing, click the “L. Scr” checkbox and the song will loop for the 4 bars shown on the notation screen. For example, if you let the soloist create a great sounding Jazz solo, you can then look at the notation and sight read along with the solo. When you reach a particularly interesting or difficult part that you would like to practice, set the L. Scr to “On” and it will loop that 4 bar phrase.

**Tip:** Since you might be holding your guitar or sax as you try to play with this command, we've made some easy hot keys to navigate around. The “NUMPAD 1” key turns the Looping on or off. The Cursor Up / Down keys jump to the previous / next screen.

The Track Buttons

These stand for Bass, Drums, Piano, Guitar, Strings, Melody, and Solo. Normally you will be displaying the Melody or Soloist track, but you can display or print any track from Band-in-a-Box.

**Note:** The instrument tracks are not created by Band-in-a-Box until you press [Play], so you may notice that the track is blank (or shows a previous song) until the song has been played once!
Exploring the Standard Notation

**Current Time position.**

This vertical line, called the time bar, indicates the current time position. You can click anywhere on the Current Time line to set a new position. This is useful to set a different location to type in chords, or to play from a different location.

The clef is displayed, and the key signature of the song. If you want some extra space for the notation, you can press the options button and set “Show Key Signature” to “No,” and this key signature won't be displayed.

**Setting the Key Signature.**

The key signature of the song is set by the Key Signature area, which is outside the Notation window and is under the Title of the song. You'll get a popup menu that allows you to choose a key, and optionally transpose the song.

**Typing chords in Notation.**

Chords can be typed in the Notation window and entered at the current position of the time bar. Chords that are typed in the Notation window also show up on the Chordsheet.

As you can see, the Notation window contains the notes and chords of the song. The bar numbers are also present, with the chorus number in brackets ( ). If there is a part marker present at the bar, the bar number will be displayed in blue, and there will be a letter “a” or “b” indicating the part marker.

**Notation Window Contextual Menu**

Chords can be edited, and major song editing features accessed, from the contextual menu that opens with **Control+click** or a right click in the Notation window.

Chords can be copied, pasted, cut, or erased and new chords can be entered from the Chord Builder.

The Chord Settings allow pushes, rests, and pedal bass to be applied.

The Bar Settings let you refine your arrangement with changes in tempo, meter, key signature, styles, RealDrums, volume levels, patches, and harmonies.

Song Settings allow rests and pushes, and also control tags, endings, and fadeouts.

Global system settings are accessed in the Preferences.

You can also right-click on a bar in the Chordsheet to set it as the beginning or end of the chorus or the end of the song from the settings in the context menu.

For example, these settings are available with a right-click on bar 16.

This menu can be used to start playback from the highlighted bar in any chorus of the song.
**Notation Modes**

There are 3 modes to the Notation window,

1. **Standard Notation Mode**  
   To display or print notation and enter chords.

2. **Editable Notation Mode**  
   To enter or edit notation and chords.

3. **Staff Roll Mode**  
   To enter/edit notation duration and velocity.

You can toggle between each of the modes by pressing the Notation Mode button on the Notation toolbar. **Shift+click** on the [N] button will back up one notation mode.

**Standard Notation Window**

The Standard Notation window is for display, entry of melodies and chords (or any track). You see the melody/chords on screen just as you would in a lead sheet. You can even display the Bass, Drums, Guitar, Piano, or Strings tracks in notation. Handles Jazz eighth notes and triplet figures correctly. Automatic options like “auto durations,” “clean notation,” “mono display,” “minimize rests,” and “engraver spacing” produce very musical and readable notation. Notes can be entered in step time (clicking with the mouse on the staff, or on the onscreen piano), or in real time from a MIDI keyboard.

**Editable Notation Mode**

This allows you to enter or edit notation. Usually, the Melody and Soloist tracks are the only ones you'll want to edit.

---

**Note:** Although you could edit the other tracks (e.g., Bass track), your edits would be lost when the song is re-composed when you press [Play] - unless you make a MIDI file to save it first.

You will notice the grid of vertical lines that indicates where the notes will be placed. This song is in Jazz Swing, so Band-in-a-Box has automatically set the grid resolution to swing triplets, 3 grid lines per beat. This resolution can be changed in the **Notation Window Settings** dialog, but Band-in-a-Box should set it to the correct value, based upon the style that is currently in use. For example, when a style is a Bossa Nova the division will be sixteenth notes, since Bossa Nova is an even rhythm, not a triplet feel rhythm.

**To insert a new note.**

Move the mouse to the location that you want. If you want Beat 1, move to the first dotted line in the bar. Click on the staff over the note that you want.

- To insert a SHARP hold down the SHIFT key as you click the note.
- To insert a FLAT hold down the CONTROL key as you click the note.
- To insert a NATURAL hold down the [ ] key as you click the note.

**How long does the note last that I insert?**

Band-in-a-Box uses an intelligent auto-duration feature to determine how long the note should be. A note that is put in will initially have a duration of 2 bars (2 whole notes). When the next note is put in (say 2 beats later), Band-in-a-Box will shorten the duration of the previous note to just shorter than 2 beats. This means that you don't have to worry about durations at all, and can just click on the notes that you want, at the locations that you want.

If you want a specific duration (i.e., over-ride the auto duration), you can do this by editing the note using by clicking on the note while holding down the option key, and then you're in a dialog box that allows you to type the exact duration that you want.
The purpose of auto-durations is to allow you to enter a lead sheet style melody by clicking only once per note, dramatically speeding up the entry of notation.

**Inserting Rests.**

You can Insert a REST by clicking the Rest button, and then clicking at the location where you would like the rest to be inserted. This automatically chops off the duration of the previous note.

**Note:** Band-in-a-Box dislikes rests less than a quarter note, so if it is important to you to see rests less than a quarter note, make sure to de-select the "Minimize Rests" check box in the Notation Window Settings dialog box.

Notes can be moved via drag and drop. To move a note, place the mouse cursor over an existing note and then click and hold the mouse button down. While keeping the mouse button pressed, move the mouse cursor over to the location you wish to drop the note and then let go of the mouse button. The note will be moved to the place you dropped it.

Certain areas of the screen are not valid locations to drop a note. The mouse cursor will change to a busy cursor to indicate an invalid location. If you try to drop a note in an invalid location, nothing will happen.

**Moving a note in time.**

If you want to change the start time of a note, drag the note with the left mouse button to the new location. This is a simple way to move the note. Alternatively, you could edit the note numerically with an option click on the note.

**Changing the pitch of a note.**

Similarly, you can drag the note vertically to change the note value, and release it when you're on the note you want. Hold down the shift, control, or ⌘ key to have the note inserted as a sharp, flat, or natural respectively.

**Editing a note's values.**

Click on a note while holding the option key. This brings up the Note Edit dialog box that lets you change any values about the note in numerical data.

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**Staff Roll Notation Mode**

Click on the Notation Mode button again to enter Staff Roll mode. It will look like this.
This mode is similar to the Editable Notation mode, except the beats begin right on the bar line. You can also see the durations of the notes visually, represented by horizontal blue lines. Similarly, you can see the velocities of the notes displayed as vertical blue lines.

Note: If you can't see these lines press the [Opt.] button to ensure that you have set the “Show Bar/Beat Lines,” “Show Note Durations,” and “Show Velocity Lines” to “Yes.”

This mode works like the Editable Notation - you mouse click to insert a note, and can drag notes horizontally or vertically, and edit notes by pressing the Mouse while holding the option key.

Option key mouse drag of velocity or duration.

There is an additional function available in this mode: Option+Mouse Drag. Hold down the option key, then place the mouse cursor on the note head and drag it horizontally to the right to set the note's duration. Use the same procedure to set velocity, but drag the mouse vertically from the note head.

Notation Options

Use the Notation Options to format your notation display and choose which elements of the notation to display or hide. Press the [Opt.] button in the Notation window toolbar to open the Notation Options dialog.

Resolution Setting

Band-in-a-Box automatically sets the resolution whenever a style is loaded. If a style has a triplet feel (such as Jazz Swing or a Shuffle style), then Band-in-a-Box will set the resolution to “3 (swing).” This will ensure that Jazz eighth notes (swing triplets) are handled correctly. When a “straight” style like Bossa Nova is loaded in, Band-in-a-Box will change the resolution to sixteenths notes. This will provide even eight notes. You shouldn't have to change this setting very often, as Band-in-a-Box sets it for you.

The “Resolution” setting determines how the program rounds the note times and durations when translating a track into standard notation. For example, a resolution of 4 will cause the program to round each note and duration to the nearest 16th note when displaying the music (in 4/4 time). A resolution of 3 will cause Band-in-a-Box to round each note to the nearest 8th note triplet (in 4/4 time). A resolution of 2 will cause BB to round each note to the nearest 8th note (in 4/4 time).

Tip: If you're displaying Jazz Swing or Shuffle music that has a triplet feel to the eighth notes, make sure to set the resolution to = 3(swing). This will display the 8th notes and other aspects of Jazz Swing music correctly.

Tick Offset

The “Tick Offset” on the notation options is one of the keys to great looking notation. It accounts for playing that is before or behind the beat. The track is automatically scanned to determine the tick offset so that you don't have to set this yourself. This results in better looking notation.

You may change this setting, but normally Band-in-a-Box will determine the best tick offset automatically.

Tip: The notation of Jazz Swing music will often be improved by a Tick Offset setting of about minus 5. This is because Jazz music is typically played a little after the beat or, in Jazz terms, “laid-back.”
Transpose
The Transpose setting lets you adjust the Notation window to display notes either higher or lower than their actual pitches. It includes presets for commonly transposed instruments. For example, if you select Guitar +12 and the guitar music will be displayed an octave higher, which is the way guitar music is normally notated.
You have the option to enter your own setting in semitones.

Clefs Split at
The “Clefs Split” at setting determines the split point for placing notes on the Bass or Treble clef. The default setting is C5, which is middle C. For example, you can use a higher split point, such as C6 if you want some notes up to a G above middle C to be displayed on the bass clef with ledger lines instead of on the treble clef. If the split point is above middle C, and a note in the music is high enough that any of the ledger lines above the bass clef would overwrite the treble clef, the note will be placed on the treble clef.

Chord Vert. Pos
Default = 5  Range 1 to 10
The chord vertical position affects the printout, not the display, it controls how high the chords will be printed above the staff. If set to =5, the chords will be written 5 notes above the top of the Staff (i.e., 5 notes above the F - at high D).

If your piece contains a lot of high notes, then set the chord position to a high setting. If you're using a big font (e.g. 32 point music font size), you should set the chord height to a low value (1 or 2) so it won't be too high and encroach on the staff above.

**Show Key Signature**

If turned off, you won't have the key signature box displayed on the Notation screen, which will save some space on the screen. Usually set it to true.

**Show Bar/Beats/Lines, Show Note Durations, Show Velocity Lines**

These options are for the Staff Roll mode, and determine which lines will show up. Normally you'll want all of them displayed.

**Use Chord Scale for Enharmonics**

Band-in-a-Box will automatically use the chord tones (1, 3, 5 and 7) in choosing its enharmonics. If “Use Chord Scale for Enharmonics” is checked, Band-in-a-Box will also use the enharmonics for the passing tones of the chord scale.

For example, on an F#7 chord in the key of Eb, the Ab note is part of the F#7 scale (as a G#, the 2nd of the scale), but is also part of the Eb key of the song. If you want to display based on the chord scale, setting “Use Chord Scale for Enharmonics” will display the note as a G# instead of Ab.

**Scroll Ahead by**

The “Scroll Ahead by” option can be set to none, 1 bar, or 2 bars. This is useful if you are reading the music from the Notation as it is scrolling. Since musicians read ahead of the music, it is helpful for the music to scroll ahead. So when the playback is on bar 4, you'll also see bar 5 of the next screen displayed. This feature still shows you the current bar when it is scrolling ahead, so it is useful even if you don't read ahead.

**Minimize Rests**

The “Minimize Rests” checkbox, when checked, will cause Band-in-a-Box to display the music with minimal rests. Use this setting if notes are displayed as shorter than you intended. For example, if eighth notes are displayed as sixteenth notes because you recorded them staccato.

**Engraver Spacing**

This is an intelligent option that spaces the Notation to avoid overlapping notation, and accounts for space required by accidentals, rests etc. It should normally be set to “On.” The only reason to set it to “Off” would be to speed up the Notation redraws, but then you will see a mathematical spacing, which results in overlapped notes in some situations. It is only operative in (non-editable) Notation mode.

**Inserted Note Defaults**

- If the Snap to Grid Lines checkbox is checked, the inserted note will be lined up with the closest grid line (quantized). So you don't have to click exactly on the beat to have the note inserted exactly on the beat.
- Duration % is the duration that will be assigned. For example, if a whole note is inserted with a duration of 80%, the note would last 4*80% = 3.2 beats.
- The Channel # and Velocity settings determine the MIDI channel and velocity of inserted notes.

**Play Inserted Notes**

If the “Play Inserted Notes” checkbox is checked, notes that you insert will sound briefly as they are inserted. This lets you hear that the note you inserted sounds correct.

**Entering Chords Using the Notation Window**

This is identical to the operation of the Chordsheet. You use the Current Time Indicator (time bar) to see where you are in the bar. Then type in the chords as you do in Band-in-a-Box.

![Chord Example]

To type the Ab that you see here, type Ab. Then to move to the Gb7 that is on beat 3, press the RIGHT CURSOR Key. To enter an Ab chord on beat 1 and a Db7 beat 2, type Ab,Db7 (i.e. 2 chords separated by a comma).

**Note:** You can also use Option+Z or select Chord Settings option from the Edit menu to enter chords. This pops up a dialog box that lets you type in the chords, and also sets options like pushes, rests, and shots.

**Convert Harmony Part to Notation track.**

Previously if you added a harmony the harmony parts wouldn't be seen on the notation, you would only see the lead part. Now you can write the harmony part directly to the notation track, so you can see it and print it out, just like any other part.

**Note:** These features are all described for the Melody track, but apply equally to the Soloist (or THRU) part.

To convert a melody (or Soloist) track to a Harmony, do the following:

1. Select the Harmony that you want to use.
2. Choose the menu item Melody | Convert Harmony to Melody Track.
3. Your harmony will now be written to the track, and you'll get a confirmation dialog.

**Message...**

Harmony conversion completed successfully. There were 280 notes on the track, and with harmony there are now 1,420.

**Printing**

Band-in-a-Box prints Lead Sheet style notation with chords and melodies. It will also print instrument parts from your Band-in-a-Box arrangements, a great way to get charts for individual practice, group rehearsal, or live performance.
Printing is accessed with either the [Print] button in the Notation window, or the one on the main screen toolbar.

Most songs will fit on one page, so your printout will look similar to a standard fake book.

You can easily make and print out a custom fake book of all of your tunes. Instantly transpose and print parts for brass or reed instruments. Print options include title, bar numbers, composer, style, and copyright information.

The harmony may be removed from the track at any time, even after you've saved and re-loaded the song. This is done from the menu item Melody | Remove Harmony (or guitar solo) from Melody Track.
Printing

Lead Sheet Style Printing

Your created songs can be printed out in the style of a lead sheet style. Most songs will fit on 1 page, so your printout will look similar to a standard lead sheet. You can easily make and printout a custom fake book of all of your tunes, and you can easily transpose parts to print out for trumpet/sax players etc. The printout includes title, bar #s, composer, style, and copyright information. Prints using a scalable True Type font and supports all MAC compatible printers.

A lead sheet usually contains the chords, melody, and lyrics of a song, on a single page if possible. We have kept the concept of Band-in-a-Box using 4 bars per line on the printout since Pop music is usually in 4 bar phrases. This aligns these phrases on the beginning of a new line.

In addition to a lead sheet style printout, you can also print out any part of Band-in-a-Box, such as the Piano part, or Guitar part, to practice your sight reading, or to learn the parts if you are learning to play that instrument.

Printing a song is done by pressing one of the [Print] buttons. This launches the Print Options dialog box that lets you view the current settings, and then press the [OK – Print] button.

Print out any combination of Chords, Notes, Lyrics, (or blank paper)!

You'll need to choose what to print out (notes, chords, lyrics, bar numbers) and what clefs to include (treble, bass). You can print out the first chorus, last chorus, or the whole song. Margins are available, so you can make a left margin to produce a printout to go into a 3-hole binder for example.

Auto-Fit onto 1 page

Band-in-a-Box will set the # staves per page for you. This will be set when you enter the Print Dialog box, or change the range that you want to print (first/last chorus or whole song). This will be done to try to fit your printing onto 1 page. If you're printing the whole song, it is unlikely that it will fit onto 1 page, so Band-in-a-Box will set to the default 10 staves per page. You can over-ride this setting by typing in the # staves per page that you would like.

Note: Remember that the title on page 1 takes up 1 stave, so if you choose 10 staves, you will get the title + 9 staves on page 1, and 10 staves on page 2.

Print Options Dialog Box

<table>
<thead>
<tr>
<th>Include</th>
<th>Print Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chords</td>
<td></td>
</tr>
<tr>
<td>Notes</td>
<td></td>
</tr>
<tr>
<td>Bar #s below by</td>
<td></td>
</tr>
<tr>
<td>Bar #s below by No Lyrics</td>
<td></td>
</tr>
<tr>
<td>Treble Clef</td>
<td></td>
</tr>
<tr>
<td>Bass Clef</td>
<td></td>
</tr>
<tr>
<td>Clefs split</td>
<td></td>
</tr>
<tr>
<td>F 0</td>
<td></td>
</tr>
<tr>
<td>Clef Sign Every Line</td>
<td></td>
</tr>
<tr>
<td>Include Lead In Bar</td>
<td></td>
</tr>
<tr>
<td>Lyrics Below By</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Key Sig. Every Line</td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td></td>
</tr>
<tr>
<td>Violet Song</td>
<td></td>
</tr>
<tr>
<td>Style</td>
<td></td>
</tr>
<tr>
<td>Jazz Quintet</td>
<td></td>
</tr>
<tr>
<td>Composer</td>
<td></td>
</tr>
<tr>
<td>Tempo</td>
<td></td>
</tr>
<tr>
<td>Tempo = 120</td>
<td></td>
</tr>
<tr>
<td>Composer2</td>
<td></td>
</tr>
<tr>
<td>Copyright</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Left Margin</td>
<td></td>
</tr>
<tr>
<td>0.25</td>
<td></td>
</tr>
<tr>
<td>Right Margin</td>
<td></td>
</tr>
<tr>
<td>0.25</td>
<td></td>
</tr>
</tbody>
</table>

Staves per page: 10

Music Font Size (def. = 24): 24
Include Chords. If selected, this will include the chords of the song on the lead sheet. Remember that you can set the height of the chords relative to the staff in the Notation Window Settings dialog box.

Include Notes. If you want only a chord lead sheet with no notes, then turn this off. Otherwise, it should be true.

Bar #s below by. Sets the position of the bar numbers below the staff. The range from highest to lowest position is 1 to 7.

Lyrics. Lyrics can either be printed above the chords, below the staff, or not printed at all. Normally lyrics are printed below the staff.

Include Lead In Bar. If your song has a lead-in (pickup) to bar 1, then make sure you've checked the lead-in. Actually, Band-in-a-Box has set this for you by determining if there are any notes in the lead-in measure. You can over-ride this automatic setting, if necessary.

Treble Clef. Normally you will want to include the treble clef. If you're printing out the Bass part, you probably don't want the treble clef.

Bass Clef. For Melodies, you likely won't want the bass clef printed. For other parts (Piano, Bass) you will want the bass clef printed.

Clef split at. This determines where the notation will split the treble and bass clefs. Middle C is C5.

Clef Sign Every Line. If checked, the treble and bass clef signs will be printed on every new line in the printout.

Print Range (First Chorus / Last Chorus / Whole Song). You can print the First Chorus, Last Chorus, or the Whole Song. When you change this setting, Band-in-a-Box will reset to auto-fit the printout to one page if possible. Normally, you'll want to print the first chorus of the song.

You'll want to print the last chorus in a song that has a tag ending, or a song that you want to see the 2 bar ending printed.

The whole song could be printed if you've played differently for each chorus. Use the Edit | Unfold (Convert to 1 big chorus) option to make each chorus different.

Lyrics Below By. Positions the lyrics below the staff, with settings from 1 (highest) to 7 (lowest).

Key Signature Every Line. Default = NO
Most modern fake books don't include the key signature every line. If you would like this to happen, then select this.

Staves per page. This determines how many staves will be shown per page. The title takes up 1 stave on page 1, so that if you set the # staves to =10, you will get 9 staves + the title on page 1 and 10 staves on page 2, 3 etc.

Title / Style / Composer / Tempo / Copyright
The title is written in a big font that is underlined and centered.

LIKE THIS
There are [a] and [A] buttons at the right side of the Title field. These change the case of the title. ([A]= UPPER CASE, [a] = Lower Case).

If the title is long (or you're using big margins), then the font size will be reduced, and the font won't be underlined for the title. Titles are limited to 60 characters.

The name of the Style that is saved with the song is automatically entered.

Click on the [T] button to insert the current Band-in-a-Box tempo, or type a tempo into the Tempo field yourself.

The other fields are for Composer, Copyright information. You can get the © symbol by pressing the [©] button.

Left Margin / Right Margin. The left and right page margins are set in inches. For example, you could set the margin to 1.25 inches.

Music Font Size
You can choose any size font you want for lead sheet printout. To change the font size for printout, insert the font point size you would like in the “Music Font Size” box. The larger the number, the bigger the font. The default is 24.

Setup
This launches the setup dialog box for your printer.
Chapter 8: Automatic Music Features

Band-in-a-Box puts a lot of musical talent in your hands, whether it’s the playing of top session musicians on RealTracks and RealDrums or automatic features that encourage your own creativity.

There are features like the Melodist for generating all or part of an original song arrangement from scratch, you just tell it what type of song you want. And if you like the song and want to keep it, it’s all yours.

The Soloist generates improvised solos in hundreds of styles in both MIDI and RealTracks formats. You might use the Band-in-a-Box solos in your finished tracks, or to inspire your own improvisations, or even as exciting (and often challenging) sight reading and practice exercises.

Likewise, the Guitarist is able to create polished guitar chord solos in the styles of all-time guitar greats, plus it will show any instrument part on the guitar fretboard.

When professionals interpret and perform a song, we expect something more than the standard published arrangement. That’s because they bring their particular talent and musicianship to the song. Band-in-a-Box does likewise with the Embellisher, which adds professional style to a recorded track, and the Reharmonist, which brings an advanced knowledge of chords and progressions to your arrangements.

Use the built-in musicianship of Band-in-a-Box to make all of your music better.

Automatic Songs - “The Melodist”

Feel like composing a brand new song? With Band-in-a-Box you can compose a new song in the style of your choice - complete with intro, chords, melody, arrangement and improvisations, all created by the program! Just pick a “Melodist” and press [OK] - the program then automatically generates the intro, chords, melody, and arrangement in the chosen style. It even auto-generates a title for you, to complete your song!

Launching the Melodist

To launch the Melodist, press the [Melodist] button on the main screen, or use the Shift+F5 hot key to open the Generate Chords and/or Melody dialog. Let's explore the dialog screen.
The left of the screen has the list of the Melodists.

In this example, the “Swing Tenor” is selected. This Melodist will generate intro, chords, melody harmony, style, and solos using the group of settings preset with this Melodist. For example, “Swing Tenor” uses “Jazz Easy Style” (J~EASY.STY) and a Tenor Sax patch, and the Melody and Chord settings in the Melody Maker.

Scroll down the list, and pick a Melodist that you'd like to use. Once you have chosen a Melodist, examine the group of settings called “Chords and/or Melody.”

This section determines what aspects of the song are going to be generated.
- If you want to generate **Chords**, **Melody**, and an **Intro**, make sure that these items are selected.
- If you'd like a Pedal Bass figure during the intro and at the end of sections, select the Insert Bass Pedals option.
- Selecting Solo in Middle Ch. will generate an improvisation in the middle choruses of the song.
- If you'd like Band-in-a-Box to generate a title for your song select the Auto-Titles option.
- The Allow Style Changes checkbox, if set, allows a Melodist to load in the style associated with it. If you don't want Melodists to change the current style that you have loaded, then deselect this option.
- The Auto-Titles option will generate a new title for the song.
- The Form selection box allows you to choose between a song generated with a specific form (AABA 32 bars) or no form. The AABA defaults to 32-bar form, which is the most popular song form.

**Note:** Melodists may alternatively be set to 64 bars (e.g. Melodist # 18 ColeP 64 bar form). The song “form” refers to the pattern that the verse and chorus repeat. An “AABA 32” form has 4 sections of 8 bars each - the “a” section is the verse and the “b” is the chorus (or bridge) of the song. If you'd prefer for the song to have no form, you could set the song to “no form” This wouldn't be a very musical setting, but might be useful for practicing or ear training.

- The # choruses setting determines how many choruses of the song form (Melodies) are to be generated. For example, if set to 5, the Melodist will generate 5 choruses, enough for an intro chorus, ending chorus, and 3 Middle Choruses. The # choruses setting defaults to the # choruses present in the current song.

### Preset Buttons

There are convenient buttons that will set these settings to popular presets. For example, pressing the “Chords & Mel” button will set the checkboxes to Generate Chords & Melody (but not Solos). The “All” button will generate Chords, Melody and Solos. The Chords button sets the options to generate Chords only (no Melody), and the Melody button will set the options to generate only a Melody (no chords) over an existing chord progression.

The **[Defaults]** button sets the Melodist settings back to Defaults.

The Tempo setting determines the Tempo of the song, and defaults to the current tempo of the previous song.

If “Auto-Tempo” is checked, the tempo will be set by the tempo range stored with the Melodist. For example, if a Melodist is called “Fast Waltz,” it would have a fast tempo range stored inside the Melodist and the song would be generated at a fast tempo if the “auto-tempo” option is set.

In songs with an AABA form, it is common for the second “a” section to be transposed. For example, the first “a” section might be in the key of Eb, and the second would be transposed up to the key of Gb. Melodists store these settings, and some Melodists are set to transpose the A2 sections. If you don't want to allow Melodists to transpose the form in this way, set the A2 transpose to none.

If set to “section plus” it will transpose the A2 section, and might transpose 2 bars early or 2 bars late. The song will only be transposed if the particular Melodist is set to transpose the section.

The **Song Key** area determines the key for the song. If set to Any Key, the program will randomly pick a key for the song, weighed more heavily toward the popular keys like C and F.

The Minor Key % setting determines what % of songs would be generated in minor keys (vs. major keys).

If set to 20, then 20% of the songs would be generated in minor keys. You can also set the Song Key Pop-up to a specific key, or set it to use the current key of the previous song.
The next section of the Melodist Screen allows you to select whether you want to generate the “Whole Song” or just part of the song. If you select part of the song, you can specify which bar and chorus to start at, and how many bars to generate. An easy way to set the range of bars is to select the bars by dragging the mouse over the chord area prior to launching the Melodist dialog. Then the “Generate” form will be automatically set to “Part of Song” and the range of bars will be set to the selected area.

If you were generating a song from scratch, you'd want to set “Generate Whole Song.” After you listen to the song, you might want to improve on a certain section of the song (say bars 5 and 6 of the first A section). To do this, from the Chordsheet window, select bars 5 and 6, and press the Melodist button again.

You'll notice that the “Generate Part of Song” radio button is set, with the range set to bar 5 and 6. Pressing OK at this point will cause only bars 5 and 6 to be regenerated, preserving the rest of the song. This allows you to repeatedly generate/re-generate parts of the melody and/or chords until you get the Melody/Chord progression that you're looking for!

If the form of the song were AABA, you'd normally want the regenerated section to be repeated throughout the form, for example, in all of the “a” sections. The Replace Thru form will set the Melodist to copy the generated bars to the other “a” sections.

If you'd like to remove the current Intro, Melody or Soloist Track, press the [Kill Intro], [Kill Melody] or [Kill Soloist] button.

You can press the Search button and then type in part of a Melodist name, memo, style name or other text associated with a Melodist. This will then cause the Melodist selection to change to the next item containing the text. Similarly, you can type in a number of a Melodist and press the [Go To #] button.

The Memo area displays a Memo for the current Melodist, as well as the name of the database (e.g. Melody1.ST2) that the Melodist is based on.

Melodists can store patch and harmony settings, and these are displayed in the patch area of the Melodist selection screen. You can also set the instrument to change each chorus (for example from vibes to guitar to piano). You can over-ride the settings of the current Melodist and choose your own patch, harmony and change instrument settings in these controls.
The Melodist Jukebox will continuously generate new songs, and play them in jukebox fashion. You can set the range of Melodists to include in the jukebox (using the From...To settings) or keep the Jukebox on the same Melodist by de-selecting “Change Melodists.” To Launch the Melodist Jukebox, press [Juke Songs Now] (option+j).

Normally you'd want the Melodist to be written to the Melody track. If you'd prefer the Melody to be written to the Soloist track (e.g. for a counter melody) then set the ‘Write to Track” setting to Soloist.

Editing Melodists

If you'd like to create your own Melodists, or permanently change the settings of existing Melodists, press the [Edit...] button to launch the Melodist Maker, which is described in detail elsewhere.

Using the Melodist

Generating Complete Songs

Here are some ways that you can use the Melodist by generating complete songs.
- The most obvious use of the Melodist is that you can generate an entire song – complete with intro, chords, melodies, full 5 part instrument arrangement, pedal bass figures, solo improvisations and even an automatic title. You can customize the song to your liking, regenerate any of the elements (chords, melody etc.), or any part of the song until you “get it right.” Either way, the end product is a complete song. What a great compositional and educational tool!
- **Sight Reading:** You can put the Band-in-a-Box Melodist in Jukebox mode, so that it is continually generating and playing new songs in succession. By displaying the Melody track in Notation, you can then sight-read along with the Melody. Since the melodies are unique, this is the ideal type of sight-reading practice; playing along to music that you haven't heard before.
- **Ear Training:** Play along with the Melodies and chords that the program is generating, without looking at the music. Since Band-in-a-Box is always using intelligent chord progressions and melody phrasing that a professional would actually use, you are learning to recognize chord progressions and melody phrases that you will encounter in real playing situations.
- **Guitarists can extend the 'Sight Reading' concept** by just watching the on-screen guitar fretboard play the melody notes. If a student were watching his teacher reading music, he would watch the guitar not the sheet music. This is because guitar is a very visual instrument. Similarly, you may prefer to watch the on-screen guitar instead of the notation.

Generate Less than a Complete Song

Here are ways that you can use the Melodist short of generating a full song:
- **Auto-generate / regenerate / remove an intro** for an existing song. You can learn from the intelligent chord progressions that are generated to lead in to the first chord of the song.
- **Auto generate pedal bass patterns over existing songs**, to add tension/release effect to your Band-in-a-Box arrangements.
- **Generate chords only, and then compose** your own melody by playing or singing along with the chord progression. This can help composers to write new songs by starting them off with a chord progression that
they might not ordinarily use. And if you're stuck at a certain bar, see what BB will generate/regenerate as a melody for that section.

- **Generate chords only, and practice** playing your musical instrument along with the chord progressions. Print out the generated lead sheet of chords so that you can see the chords easily on the music stand. Working with new chord progressions is useful to “get-out-of-a-rut” in your practicing by playing new chord progressions. You can also improve your harmony ear training, by figuring out the chords as they are being played, without looking at the chord symbol display.

- **Generate Melodies only**, over existing chord progressions.

**Using Melodist Jukebox**

Use the versatile Melodist Jukebox feature to:

- Generate Songs (Chords & Melodies) in succession.
- Generate Solos only over generated chord progressions.
- Generate Solos over the same chord progression (to practice blues soloing for example).

**Automatic Intros**

The Melodist will automatically generate an introduction for the songs it creates. It is also possible to generate an introduction for any song from the **Edit | Intro Bars Auto-Generate** menu option (**Ctrl+Shift+B**).

<table>
<thead>
<tr>
<th>Generate Chords for Intro (or Remove Intro)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chord Types</td>
</tr>
<tr>
<td>Intro Length (bars)</td>
</tr>
<tr>
<td>Starting chord (after intro)</td>
</tr>
<tr>
<td>Pedal Bass</td>
</tr>
<tr>
<td>Use Maj7 instead of Maj6</td>
</tr>
</tbody>
</table>

This will create a chord progression that gets inserted as an intro to the song, based on the optional settings you choose.

- **Chord Types** can be Jazz or Pop.
- **Intro Length** can be 2, 4 or 8 bars to suit the tempo of the song.
- **Starting Chord (after intro)** lets the intro lead in to the song correctly.
- **Pedal Bass** has a list of pedal bass options, based in the key entered in the box.

Press the [(Re)-Generate Intro Chords] button to auto-generate chords for an intro.

Press the [Remove Intro] button to remove the intro from the song.

**Automatic Song Title Generation**

The Melodist will optionally give a title to the songs it writes. Song titles can also be generated on demand with the **User | Auto-Generate Song Title** menu command (**Ctrl+Shift+S**). The song title will appear in the Title window.

- **Visit to Kenya**

Repeat the Auto-Generate Song Title command until the program comes up with a suitable title for your song. Band-in-a-Box will keep generating new titles for as long as it takes to get the right one.
Automatic Solo Generation – “The Soloist”

Pick any song or chords in any style, and choose a “Soloist.” Band-in-a-Box then creates and plays a professional quality solo in the style of your choice. In addition to great Band-in-a-Box accompaniment, you can hear sensational solos as well - showing you exactly what notes are played. Choose from “soloists” in a style similar to great Jazz musicians such as Django Reinhardt, John Coltrane, Country/Pop soloists and others, or create your own soloists using the “Soloist Maker.”

Select a Soloist

To select a pre-made Soloist, click on the [Soloist] button on the toolbar, press Shift+F4, or choose Soloist | Generate and Play a Solo. This will launch the Select Soloist dialog.

Now, select the type of Soloist (“Soloist Type” list box) and choose the appropriate style. This will bring up a list of Soloists in that style. Then, simply choose which one you would like to hear and what instrument you would like the Soloist to play.

When the “All” box is checked, all soloists will be displayed but those that do not conform to the Soloist Type box will be in parentheses. If this box is not checked, only Soloists that conform to the Soloist Type selection will be displayed.

The [Fav] button opens a Favorite Soloist list of the fifty most recently used Soloists, with the most recent at the top.

The [RealTracks] button moves the Soloist list to #361, which is the start of the RealTracks Soloists. These are Soloists that are audio, not MIDI. Soloists generated with RealTracks are saved with the song, so you will hear the RealTracks play the same solo when you reload the song.

When you generate a solo using RealTracks, Band-in-a-Box will remember this, and when you go to save the song, Band-in-a-Box will ask you if you want to save that solo (and thereby freeze the Soloist track). If you say yes, then the solo will play instantly the same way when the song is reloaded. Of course, you can freeze the Soloist track...
yourself at any time. Note that only one solo can be saved. You can’t generate a bunch of different segments of
solos; only the last one will be saved.

Use the [Search] button to search the Soloist titles and memos. Check the “All” button to search all Soloists,
otherwise only the type selected will be searched.

[Go to] will go to the specific Soloist number that you enter in the box.

The “Memo” has information about the selected Soloist and notes about using it.

There are additional settings that let you customize the solo.

![Soloist Settings](image)

When “Double Time” is checked, the Soloist will play twice as many notes in a given space of time. This is useful
for ballads or other tunes with slower tempos.

The solo instrument is set by default according to the selected Soloist, but you can override that instrument by
clicking on the list box and choosing from the General MIDI patch list.

The [Choose] button opens a list of instruments that typically play in the same register as the default instrument.
You can choose a new solo instrument from the list.

[Clear] will clear the default or chosen solo instrument, useful if you want to keep a previously used solo
instrument.

Some Soloists have a harmony assigned. You can use this setting to override the selection or to add a harmony of
your own choosing. Use [Clear] to remove the harmony.

If a selected Soloist autoloads a new style, that style will be displayed here. You can [Choose] to load a new style
with the selected Soloist, or you can [Clear] the selection so that no style is loaded.

“Change Instrument” determines if and how frequently the Soloist instrument will change. This could be each
chorus, every part marker, every substyle change, or every 4, 8, 16, or 32 bars.

**Solo Modes**

![Solo Modes](image)

As well as the normal mode of soloing for a number of choruses while
the melody is silent, the Soloist has several other modes.

For example, Fills will “noodle” over the changes for a percentage of
time.

Other modes are Solo Around Melody, Trade 4s, Solo Wizard, and
Custom Solo for a Specific Range of Bars.
Around Melody option.
This option for the Soloist part creates a solo around the melody, that is, at times when the melody is silent. To solo around the melody, do the following:
1. Open up a song that has a melody, preferably a sparse melody with some space in it that a Soloist might be able to “jump in.”
2. Press the Soloist button. Select the Solo Mode “Around Melody.”
3. Set the Soloist to play in All Choruses, and uncheck the “Mute Melody in Middle” option.
4. Press [OK] and the solo will be generated, playing riffs at times when the melody isn't playing.

Tip: For added effect, add a guitar chord solo to the Soloist part using the Chord Solo button on the Guitar and choosing Solo as the destination. Or simply choose a Guitar Harmony like 32 J Pass.

Trade Fours Soloing
Band-in-a-Box can generate the first four or the second four bars. “Trading fours” refers to a solo lasting four bars, usually followed by a different melodic solo (or drum solo) for the next four bars. It's fun to solo along with Band-in-a-Box in 4's mode, letting the computer solo for four bars, followed by your solo.

In the Select Soloist dialog, you can click on the button beside the “Trade 4's” radio control to select whether you want the first four bars or the second four bars. If set to 1st, the soloist will take bars 1-4, 9-12, etc. And if set to 2nd, it will solo on bars 5-8, 13-16, etc. The fours are based on the beginning of the chorus, not the first bar of the song.
You can generate four bars trading off with each other in two ways. The easiest way is to choose the Normal Solo mode, and select the “Change Instrument Every 4 bars” option. This results in different instruments taking four bar solos.

Another method is to choose the trade 4's option, generate 4's using the first setting, and then choose Soloist | Edit Soloist Track | Swap Melody and Soloist Track, and then generate a solo again, using the second set of four bars. This will result in 4's with one track on Melody and the other on the Soloist track.

Solo Wizard
Additionally, you will find another great feature in the Solo mode list, the “Solo Wizard.” With this mode selected, the program will play correct notes in the style of the current Soloist as you play notes on the MIDI or QWERTY keyboard.
Beyond impressing your friends with your newfound improvisational prowess, this feature has practical implications as well. For example, you can concentrate on practicing your solo phrasing and playing in time without concerning yourself with which notes to play. Band-in-a-Box will supply the correct notes.

Tip: The Soloist will use the velocities you play or pick its own, depending on the setting in the Soloist Prefs “Use MIDI Volume for Soloist Wizard” checkbox.

Custom Solo Generation
You can redo any part of the solo that you don't like with the ability to generate and regenerate parts of the solo. There is a [Custom...] button on the Select Soloist dialog. This launches a custom solo dialog to allow you to set a range for the solo.
Tip: You can have these values preset to the values you’d like by first selecting the range of bars that you’d like from the Chordsheet screen, and then clicking on the Soloist button.

Usually soloists end a little after a bar end – i.e. they play a couple of extra notes. Setting the “OK to solo for an extra beat” will allow this.

If you want to overdub a solo and have multiple solo tracks going at once, de-select “Overwrite existing solo in range.”

Once you press the [Generate Solo Now] button, the portion of the solo that you have selected will be generated. The song will then start playing two bars before the new part, so you can quickly hear the new solo.

Remember that the custom solo generation can be used with different soloists, so you can use a “Tenor Sax Jazz” soloist for a few bars, and then insert a custom “Bluegrass Banjo” soloist for four bars and so on.

Soloing over Slash Chords
The Soloist analyzes slash chords (like C/Bb) to determine the best scale type to use (e.g. Bb Lydian). There’s nothing you need to do, this function happens automatically behind the scenes.

Editing Soloists
If you'd like to create your own Soloists, or permanently change the settings of existing Soloists, you can press the [Edit] button to launch the Soloist Maker, which is described in detail elsewhere.

Tutorial: Using the Soloist Feature
- Generate a Soloist and practice the solo by looping it, slowing it down, or printing it out, until you can perform a great solo on any chord changes!
- Generate a Soloist and attach a Harmony such as “Big Band Brass” to create phenomenally quick and interesting Big Band Arrangements automatically. Generate a standard MIDI file or print them out for you and your friends.
- Have the Soloist play a solo according to your accompaniment and arrangement.
- Trade 4's with the Soloist (you solo for 4 bars, BB solos for 4 bars, etc.).
- Concentrate separately on different aspects of your playing with assistance from the “Wizard.” From soloing with proper phrasing and “feel” (and the best notes) to accompanying a soloist with confidence and authority.
- Use the Soloist track to record another part in addition to the Melody and other parts provided by Band-in-a-Box.
- Generate a Soloist on chords/keys that you would like to practice. For example, if you want to work on your II-V7-I progressions, you can just type the chords you want, and generate a solo to play over those changes. As the solo plays, you see the notation, you can sight read along. Pressing the “Loop Screen” checkbox on the notation will loop the notation the screen so you can master each 4 bar phrase (II-V-I) and then move ahead to the next one!

- The Soloist has its own separate channel and settings. But when the Soloist uses a Harmony, it becomes linked to the Thru Harmony channels and settings. Since we are already using 12 of the available 16 MIDI channels in Band-in-a-Box, we didn't want to use up another 2 channels on dedicated Soloist Harmony channels. So if you want to hear a Soloist with harmony, use the THRU Harmony settings. In other words, wherever a THRU harmony is selected, the Soloist part will use the THRU Harmony settings.
- We have designed the Soloist not to repeat any solo ideas so that the solos are always fresh, with new ideas forming and playing all the time. As a result, we have included a Refresh Soloist menu item under the Soloist menu that, when selected, will allow the Soloist to “think about” all of its musical notions again. Choosing the
“Refresh Soloist” option (Shift+F7) is like telling the soloist “It's OK, you can play whatever you like, even if it's something that you played 5 minutes ago.”

- The Soloist menu contains many options. It has all of the same editing options found in the Melody menu, so you can treat the Soloist track as a 2nd melody track. Even if you don't plan to use the Automatic Soloist feature, you can just use the Soloist track as a 2nd track for counter melodies, overdubs etc. The result; two melody tracks, two solo tracks, or one melody and one solo track all at your disposal for any song, without having to resort to an outboard sequencer.

**Automatic Guitar Chord Solos – “The Guitarist”**

With Band-in-a-Box, you can generate a guitar chord solo for any melody. Band-in-a-Box will intelligently arrange the melody into a guitar chord solo by inserting real guitar voicings throughout the piece. You can select from among many Guitarists to create your arrangement. And you can define your own Guitarists, choosing parameters such as strum speed, types of voicings (Pop/Jazz), embellishments, and many more. **You can easily make and learn a professional quality guitar chord solo to your favorite song!**

**Generate a Guitar Chord Solo**

Load in a song with a melody in it. We suggest the song GIT_TEST that should be in your Songs folder. If it isn't there, choose the song “Old Folks at Home” or any other song with a melody.

Open the Guitar window (Ctrl+Shift+G). Launch the Chord Solo function with the [Ch. Solo] button, or select Melody | Generate Guitar Chord Solo.

**Select Guitarist Window.**

Once you press the Chord Solo button, you'll see the Select Guitarist window.

Here are the steps needed to generate your Chord Solo:
1. **Select the Guitarist to Use.** In the main list at the left of the Window, you see the list of Guitarists that is already defined. For example, you can see that Guitarist #2 is called “Jazz Guitar, single position.” That will create chord solos that stick to a single position on the guitar neck whenever possible.

2. **Select Melody or Soloist track.** You'd normally want the Guitar Chord solo to be written to the Melody track, but you can also select the Soloist track as the destination.

3. **Confirm the Guitar Patch Selection.** The Guitarist that you pick (see item #1) will already have chosen the guitar patch to use, but you can override it with this setting.

4. **Select the Range of the song to use.** You can either generate a chord solo for the whole song, or just a region of the song. In either case, remember that you need to have an existing melody to work with. You can use the Melodist to generate a melody if you don't have one.

5. **Select the Main Guitar Position to use.** Band-in-a-Box has a setting called “Auto Set” that will set the main guitar position for the solo for you, based on the key signature. For example, in the key of C, Band-in-a-Box will choose the 5th position as the best position for the chord solo to be played. You can override this. For example, if you wanted the solo to be in the 12th position you could de-select the “Auto-Set” and then set the guitar position to 12th position.

6. **Change Guitar channel.** In case you already have a guitar track that has guitar channels (for example if it was already played on a guitar controller as a single string guitar part), then you might want to tell Band-in-a-Box not to change the guitar positions of the notes that it finds. Normally you'd want to set “OK to change existing guitar channels” to true.
7. Press [OK] to generate the Guitar Chord Solo.

You'll now see a message box confirming that a chord solo has been added.

Message...

Guitar Chord Solo written successfully.
There were 279 notes on the track, and with the chord solo there are now 643.

Playing the Guitar Chord Solo

The playback will begin automatically, and you'll see the guitar voicings on the guitar neck. For example, at Bar 8, the chord is a C#dim and Band-in-a-Box has voiced a Bb melody note with a 4-note guitar voicing of Bb, E, C#, and G.

This particular solo will be played in a single position, because those are the parameters of this particular guitarist. Other Guitarists will play in a range of positions (e.g. Guitarist #1), or in open position (e.g. Guitarist #8).

As you listen to the solo, you'll notice the following:
1. Some of the notes are left as melody, and some are assigned to chords.
2. Wide varieties of guitar chords are used, including some advanced chords. All of them are popular chords played by real guitarists – there are no theoretical chords.
3. The chords are strummed, to simulate a real guitar player.
4. The Track Type for the Melody has been set to Guitar, and the MIDI file will be saved with the Guitar Channels (11-16) preserved which preserves the fret positions.

Note: All of these items can be customized in the Guitarist Maker, which is launched by the [Edit...] button in the Select Guitarist dialog.

Redo Part of the Solo

Let's redo part of the solo at a higher fret position. This particular song GIT_TEST.MGU has 6 choruses, and the last 3 choruses have a much higher range of soloing. Let's redo that part of the solo, using a higher fret position.

We'll press the [Ch. Solo] button again, de-select the auto-set position button, and choose the 12 position. Since we only want to regenerate this for the choruses 4 to 6, we set the range to “Part of Song” and the range to start at chorus 4, bar 1, and range of 96 bars. This will rewrite the solo, by first removing the existing guitar chord solo (if any) and then generating a new one.
Saving the Guitar Chord Solo

Once you have generated a Guitar chord solo it becomes part of the notation track. You can edit it like any other part by deleting/inserting notes, etc.

The solo will be saved with the song (MGU) and exported to a MIDI file, with the string positions intact (because we use channels 11 to 16 for the Guitar part). You can remove the solo at any time, even after the solo has been saved/reloaded, by choosing *Melody | Remove Harmony (or guitar solo) from Melody Track*.

Guitar Settings

![Guitar Settings dialog]

The *Guitar Settings* dialog allows you the ability to adjust various parameters on the on-screen guitar fretboard so that music can be displayed effectively (and easily) on this window, regardless of the original instrument intended for the track data. It also offers the ability to enter notation using the on-screen guitar, and to play back track data in specific fretboard positions for educational and sight-reading purposes.

**Note Display Options**

![Note Display]

If *MIDI Thru* is selected (default = On), the Guitar will display the music played on a MIDI keyboard. If *Current Track* is selected (default = On), the current track will be displayed.

---

**Technical Note:** Since some of the guitarists can be assigned to strum the chords in a delayed fashion, if you repeatedly regenerate the solo, the melody will become more and more delayed. The solution(s) would be to choose *Edit | Undo Solo* prior to re-generating the solo, or picking a Guitarist that doesn't delay the strum. The Strum delay status is indicated on the “Info” panel of the Select Guitarist screen.
The guitar will display information on channels 11 to 16 on strings 1 to 6 if Multi-Channel Mode is set to = On (default). Channel 11 is referred to as the “base channel” (default = 11). You can edit notes on the Notation to set the channels of the notes. Guitar controllers will also record information in this manner, so you can record on a MIDI guitar and see the display on the Guitar Fretboard. The base channel is normally 11, but you can set it to any channel (e.g. if set for channel 5, this would mean that channels 5 to 10 would be the guitar channels).

The Fretboard Color can be brown or black (default=brown).

If you elect to not display note names, you can select “Use Inlays” and a guitar inlays will be displayed along the neck.

If Send Notes to (Editable) Notation Window is set, when you click on the Guitar notes (and the Notation window is open in Editable Notation mode or Staff Roll mode) the note will get inserted at the current time line on the Notation window.

If you would like to have Melody and Soloist parts written specifically for guitar, set this to “Yes.” Then the notes that are played on the six different strings will be assigned to six separate MIDI channels.

You can set the Fretboard Octave. For example, if the music is very low, and you need to boost the octave to display it on the guitar, set the guitar octave to 1 or 2.

There is an AutoSet Octave setting (discussed elsewhere). If selected, the Guitar Octave is set automatically.

Use Index Finger Position: If set, the scale will use the “index finger” to play notes that are one fret outside of the normal position, instead of the little finger.

Show out-of-range notes: If set, any note will be displayed on the guitar, regardless if it is the range of the guitar or not.

Show muted note of guitar style comping: For the three-note Jazz voicings, there is a high note that is applicable to the chord but is either not played or muted. You can choose to display this note on the guitar fretboard.
The note names will get displayed in up to two positions, depending on the settings for Show Notes at Aeolian Position and Show Guitar at Phrygian Position. (Default = true)

You can choose which notes will be displayed on the fretboard, either None, Root Only, Chord Tones, or Scale Tones.

Positions can be auto-set to None, Aeolian, or Phrygian.

The Auto-Switch Position setting allows the program to automatically switch the display of the guitar when a new track is loaded in. This auto-chooses the best position to display the track.

The Guitar can be sized using the Guitar Width and Guitar Height setting or the preset buttons that set the size.

[Set to Defaults] button sets the Guitar window to factory defaults.

The [Update] button will apply any change you have made to the fretboard size.

Editing Guitarists

Guitarists can be customized using the Guitarist Maker, which is described in a separate topic and is launched by the [Edit...] button in the Select Guitarist dialog ([Ch. Solo] button).

Melody Embellisher

When musicians see a lead sheet that has a melody written out, they would almost never play it exactly as written. They would change the timing to add syncopation, change durations to achieve staccato or legato playing, add grace notes, slurs, extra notes, vibrato, and other effects. Now you can have Band-in-a-Box do these automatically using the Melody Embellisher. If you enable the Embellisher, any melody will be embellished as it is played, so that you hear a livelier and more realistic melody - and it's different every time.

The Melody Embellisher feature is turned on and off by the Embellisher checkbox on the main screen.

The Melody Embellisher settings are accessed during playback with the embellisher (grace note) button on the main screen, or from the Melody | Embellish Melody during playback menu item.

The Melody Embellisher only functions during playback. If enabled, the melody that plays will be embellished. You’ll see the embellished melody on the notation as the melody plays, so you can see the embellished notes. When [Stop] is pressed, the notation reverts to the original unembellished melody.

The embellishment changes timing of notes, durations, velocities, legato, as well as adding grace notes, additional notes, and turns. Here is a before-and-after example that shows a typical embellishment of a melody.
As you can see in the notation examples, the embellished melody adds anticipation in bar 9, and in bar 10 adds extra notes and timing changes to spice up the melody.

Using the Embellisher

If you disable the Embellisher, by de-selecting the Embellisher checkbox, the melody (or solo) will play as normal with no changes.

There is a Melody Embellisher dialog. It is launched from the Melody | Embellish Melody Dialog menu item (control+option+l) or the Embellisher (grace note) button on the main screen. This allows you to customize the settings of the Embellisher, choose Embellisher type from presets, and make a particular embellishment permanent.
“Live Auto-embellish during every playback” is the same setting that is on the main page checkbox. If enabled, embellishment will occur during every playback. If disabled, embellishment will not occur unless you choose the [(Re-) Embellish NOW - Permanent] button in the dialog.

**Embellisher Presets**

The presets allow you to choose a combination of common settings for the Embellisher quickly.

The **Embellisher Memo** describes the current embellishment, with statistics counting the number of embellished notes.

If the song is playing and the Embellisher is enabled, you can update the embellishment by pressing this button. This is useful if you've changed settings, and want to hear what the new embellishment sounds like.

[Defaults] reverts to factory settings. [More] opens a dialog with additional settings to fine-tune the Embellisher, and [Stats] displays the same thing that appears in the Memo field, but will display it even when there is no current embellishment.

If the song is not currently playing, you can still create an embellishment and have it apply permanently by pressing the [(Re-) Embellish NOW – Permanent] button.

Normally the embellishment occurs live when the song is playing, and doesn't affect the Melody track permanently. But if you like the embellishment, and want to apply it permanently to the melody, you can choose the [Make Current Embellishment Permanent] option.

The original Melody track is not permanently affected unless you have press the [(Re-) Embellish NOW – Permanent] button. If you have done this, and want to restore the original melody, you can press the [Restore Original Melody] button.

The Embellisher is usually referred to as the Melody Embellisher, because you'll usually want to have it affecting the Melody track. But if you'd prefer it to affect the Soloist track, you can choose the Soloist track as the Embellisher track.
Embellisher Settings

The settings contain a number of parameters that affect the embellishment. They can be turned on and off, and can be set with certain percentage strength. The settings are:

**Humanize:** The velocities, durations (legato), and timing of the notes are humanized. The original velocities etc. of the notes are ignored. This is useful when the melody has been entered in a stiff manner.

**Adjust Octave:** The octave of the Melody is changed to the best octave for the current Melody instrument. For example, if the instrument were a Piccolo the octave would be raised to the best range for a piccolo. There is an additional setting for the octave in the “More” settings dialog.

**Anticipations:** An anticipated note is played early, or “ahead of the beat,” as in this example.

Unembellished notes

Embellishment with anticipations on beat 1 and 3

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Less Anticipations: This is the opposite of anticipation. This finds notes that are anticipated, and “embellishes” them by playing them later (on the beat).

**Grace Notes:** The grace notes are brief notes played just before, and a semi-tone below the original note. The grace notes intentionally don't show on the notation, so that it will remain easily readable. They can be heard.

**Doubled Notes:** Melody notes are doubled with the same pitch.

Unembellished … "C” quarter note is doubled to 2 eighth notes.

Embellished …

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**Extra Notes:** Extra notes are added between melody notes.

Unembellished … In this before-and-after example, an Eb and E note are added between the D and F.

With Extra Notes added …

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**Note “Turns”:** With a note turn, a single note is replaced by a group of notes that includes the original note and the semitone or scale tones above and below.

Unembellished … In this before-and-after example, the C note is replaced by a “turn” of 3 notes with a note a scale tone above the C.

Embellished with turn …
Vibrato: Vibrato can be added according to the additional vibrato settings available in the “More” dialog. The vibrato can't be seen on the notation window, but you can examine the events in the Event List.

If set, the Melody will be delayed a little, providing a “laid-back” feeling.

There are additional settings in the Embellisher Additional Settings dialog box.

- **Vibrato Depth**: This is the amplitude of the vibrato, ranging from 0 - 127.
- **Vibrato Speed**: This is the speed of the vibrato (slow-fast) range 0 - 127.
- **Only use Vibrato if Note is this many ticks**: e.g., If set to 120 ticks (one quarter note), then only notes of at least that duration will get vibrato.
- **Start the Vibrato after this many ticks:** For notes that will get vibrato, the vibrato will start after this many ticks.
- **Adjust Octave Method:** If the octave is to be adjusted, it will either only adjust it if the notes are outside the playable range, or always adjust it to the best octave, according to the setting you make here.
- **Dynamic Range:** Refers to the range of velocities used for the humanization. Useful range 30 to 50.
- **Legato Settings:** Refers to the amount of legato for the notes. Useful range 55 to 75.

## The Reharmonist

### Generate Chords for a Melody

Generate chords for a melody, or an improved chord progression for a melody, with the “Reharmonist” feature. This feature generates a chord progression in the chosen genre, based only on the melody.

The idea of the Reharmonist is to generate a completely new chord progression for a melody, in a genre that you choose (Jazz, Country, etc.). This ignores any existing chords in the song.

### Chords for a Whole Song

This example uses the melody of Bach’s Brandenburg Concerto #1 in F, 1st movement, but you could use the melody of any song you choose.

Press the [Re-Harm] button to open the Select Re-Harmonist dialog and choose “Whole Song.”

You could also use **Windows | Auto-Generate Chord Reharmonization**.

Deselect “Show-All” and then select the “Bossa Nova (Latin)” genre.

Note that the program has analyzed the melody, and decided that the key should be F (this is independent of any key that was already set in the song).

Now press “OK – Reharmonize.” You will then have an entire chord progression written for the song, in a Bossa Nova style.

The Chord Progression generated is different every time, so the one that you get will be different from this one.
Play the file that you have generated. Notice the “Bossa” style of chord progression, with 2-5 progressions, and other typical Bossa chords.

Revisit the Reharmonize dialog, and try generating a new chord progression, in a new Genre.

For example, “EZ listening (Pop)” will generate a Pop style chord progression, very different from the Jazz chords in the Bossa version.

Reharmonize Part of a Song
Now let’s use the Reharmonist in an “interactive mode” where it gives us choices of various chord progressions at each bar. Let’s see if we can interactively improve on the chord progression, according to our own tastes.

The first 2 bars generated originally are:

Make sure that the currently highlighted cell is bar 1.
Now press the Re-Harm button, but this time choose “Part of Song” and under “Set Range” enter Bar 1, Chorus 1, and the # bars as 2.

Here are two of the possible variations the Re-Harmonist has suggested for the first two bars.

See a List of Possible Reharmonizations
This could also be done with the menu command Windows | Chord Reharmonist Dialog (choose your own).
In the Reharmonize melody – new chords for 2 bars of the melody dialog you can choose from a list of reharmonizations for any 2 bar segment of the song.
Use the feature interactively by displaying a menu of possible chord progressions for a portion of the melody, and audition them to choose the best one using the “Bar Reharmonist.” This allows you to hear some new chord progressions for existing melodies, or brand new progressions for tunes without chords.
The reharmonization starts at the Bar # indicated. Use the [-2] and [+2] buttons to navigate to the segment to be recompiled.

Choose a chord progression, and press [Do-Reharmonize NOW] and the program will insert that progression.

The progressions are sorted in alphabetical order, or from “best to worst” depending on this setting.
Chapter 9: Recording Tracks

Overview
Band-in-a-Box has a built-in sequencer allowing you to record and edit up to two MIDI tracks. One track is the Melody track, the other is the Soloist track, and they are identical in function. Most often melodies are recorded, but the two sequencer tracks can be used for any type of MIDI recording – overdubs, extra parts, or 2-part melodies. MIDI can be recorded into Band-in-a-Box in a number of ways:
- From a MIDI keyboard or MIDI controller connected to your computer.
- In the Notation window using your mouse.
- With the Wizard feature using your QWERTY keyboard.

Real Time Recording
If you want to record using your MIDI controller (keyboard, guitar, wind), click on the [Record] button, or
- type the letter R or
- choose Record Melody from the Melody menu, or
- go to Edit Soloist Track | Record Soloist in the Soloist menu.

The Record Track or Record to Soloist Part dialog box will appear:

Choose where you want to start recording your track:
- from the start of the song,
- at a specified bar,
- at the tag,
- from the end of the track.

If you select “Overdub Underlying Notes,” you will hear the melody that you're overdubbing.
The [Filter] button in the Record dialog opens the Record Filter dialog. This lets you choose which MIDI information you want to record and which you want to leave out. You can eliminate unnecessary MIDI information or select new MIDI information, like controllers, to add to an existing track.

Click OK to return to the Record dialog, and press the [Record] button or the letter R again to begin recording.

**Tip:** If you're sure that the settings are correct, just press R twice, and you won't have to see the Record Track dialog.

When the recording is finished, you have several options.

[OK - Keep Take] will save the take that was just recorded.

**Copy 1st Chorus to Whole Song**
If you have recorded one chorus of the song, checking this at the end of the recording will copy the same recording to all of the choruses.

**Overdub Underlying Notes**
You have the option to merge the recording with existing melody. If there is no underlying melody - this option will be grayed out.
Retain Past Last Recorded
You have the option to keep or erase any melody after the last recorded note.

Step Edit Notes
You can step edit a recorded track, or create a new track in the Edit Note/Time Etc., dialog. Select Step edit Notes... from the Melody menu.

<table>
<thead>
<tr>
<th>Note</th>
<th>Vel</th>
<th>Time</th>
<th>Bar</th>
<th>Beat</th>
<th>Tick</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>65</td>
<td>83</td>
<td>1024</td>
<td>1</td>
<td>1</td>
<td>64</td>
<td>87</td>
</tr>
<tr>
<td>58</td>
<td>74</td>
<td>1112</td>
<td>1</td>
<td>2</td>
<td>32</td>
<td>30</td>
</tr>
</tbody>
</table>

This feature is very useful if you have recorded a good take with just a minor glitch. Rather than scrap the take, you can use the step edit feature to fix the track and save it.

Note Number
The note is played out through the MIDI driver so you can hear it. The note is also drawn on the Keyboard at the top of the screen so you can see it.

Input the MIDI Note Number. There are 128 MIDI notes. Every C note is a multiple of 12, which makes middle C (called C5 for the 5th octave) note number 60. For example, C5 = 60, C#5 = 61, D5 = 62 etc.). In the example above therefore the note = 64 would be 4 semitones above middle C, an E.

Velocity
Type in a velocity to control the volume that the note is played at. Change the velocity to zero to stop a note from being played. Note that you can globally change the volume of a melody track, from the melody pull down menu.

Time
Represents the total time in ticks for the current event from the beginning of the song. At 120 ppq resolution, a quarter note equals 120 ticks and a bar of 4/4 time is 480 ticks. This number includes the lead-in bar of 480 ticks.

Bar #, Beat Number, Tick
The Bar, Beat, and Tick show the time that the note is played. Ticks are the smallest unit, equal to 1/120th of a quarter note.

Duration
This is the length of time that the note is played. 120 ticks of duration = 1 beat (quarter note).

Previous/Next Event
Use these arrow controls to move through the MIDI track one note at a time.

Insert Before/After
This allows you to insert an event before or after the currently displayed event.

Note: You can get better results by using the Notation window to edit notes instead of this window. To do this, you open the Notation window and mouse click on a note while holding down the option key in Staff Roll or Editable notation mode.
Entering Notes Manually in the Notation Window

You can enter melody notes directly to the track in the Notation window in either the Editable Notation Mode or the Staff Roll Mode.

Enter the Editable Notation mode from the Standard Notation screen with a single mouse click on the [N] button.

In the Editable Notation mode you can enter, move, and edit notes and rests using standard mouse techniques – point and click, drag and drop, and Option+Click to open the Note Edit dialog box.

Recording with the Wizard Feature

This is a very helpful feature if you don’t have a MIDI keyboard but you want to record with a “live” feel. Use the Wizard to record notes from the computer’s QWERTY keyboard for a track that’s more natural than step time.

Here’s how it works:

1. Enable the Wizard checkbox.
2. Press [r] key to record.
3. As the song plays, play the melody on any keys on the bottom two rows of the QWERTY keyboard, in the rhythm of the melody. The “wizard” notes won't be the correct melody of course, but don't worry about that as you record. When you're finished, look in the Notation window. You’ll see notes in the right places and with the correct durations, but with the wrong pitches.
4. Drag the notes with the mouse and drop them on the correct place on the staff. You’ll hear the notes play as you drop them, and the names will show in the note name box. For sharps, flats, and naturals, hold down the shift key, control key, or key respectively. You’ll end up with a melody that sounds like it was recorded live, without the rigid feel of tracks entered in step time.

Tip: If you have the wizard “On,” the spacebar won’t stop playback. You need to press [Esc] key to stop playback when the Wizard is on. This is to prevent stopping the song inadvertently if you mistakenly hit the spacebar while playing the wizard.

Importing Pre-Recorded MIDI Data

Standard MIDI files can be read in to the Melody or Soloist tracks from MIDI files or from the clipboard. You can read in all of a MIDI file, or selected channels and a specific range of bars. Use one of the following two commands:

1. Melody | Import Melody from MIDI File... to select a MIDI file from disk using the file dialog.
2. Melody | Import Melody from Clipboard - when the MIDI data is already copied from another program to the clipboard.

Once chosen, the Import MIDI File dialog box opens.

Import Which Channel(s)?

You'll need to know which channel(s) of your MIDI file the melody is on. You then select these channels for Band-in-a-Box to read in. If you select all of the channels, Band-in-a-Box will read all of the channels and merge them to the Melody track. You can import and play the complete file on the Melody track if the Track Type is set to “Multi (16) Channel” in the Melody menu.

If you have such a MIDI guitar part that was recorded with separate pitch bend information on 6 channels, you can import the 6 channels into Band-in-a-Box. Set the Melody track to be a guitar track (Melody | Track Type), and then use the Guitar Settings dialog (in the Guitar window) to set the “Output guitar tracks on 6 channels for this song” to be true. This has been done for the “Nashville Solos” files like NG001.MGU (available as an add-on to Band-in-a-Box). When this option is set, the patch changes, panning and so on will be sent on all 6 MIDI channels.
# bars to offset from start
If you want to start reading from the beginning of the MIDI file, select 0 as the offset. If you want to be read starting at bar 32, for example, select an offset of 32 (bars).

How many bars to import
Leave this setting at the default of 1000 to read-in the entire file (unless it’s longer than 1000 bars!), or set it to the number of bars that you are interested in if you don't want the whole file.

# blank b. to insert at beginning
This will insert blank bars into the Melody track. Remember that Band-in-a-Box normally has a 2 bar lead-in count. If your MIDI file has no lead-in, then you’ll need to set this to equal 2 to compensate for the 2 bars of lead-in.

Include notes early by (120 ppq)
If you’re reading in a MIDI file starting at bar 5, it would be annoying to have a note that was played 1 tick earlier than bar 5 left out of the MIDI file that is read in. To include it, you can set this, and the note will be read in.

Include continuous controllers and pitch bend/Patch changes
Select the items you want to include when the track is imported.

Merge with existing data on Track
You can choose to merge the imported data with your existing Melody track.

Record using The Melodist
There’s always the option to let Band-in-a-Box do it all by writing an original melody with its Melodist feature. It will do this over the chord changes you enter in the Chordsheet, or it will generate its own changes for whatever style you select from the Melodist dialog.
This feature is useful for stimulating ideas, for creating instant songs for sight reading exercises, to demonstrate different musical styles, or for background music.
Additional Options for Melody/Soloist Track
Manipulation of melodies is done with functions like insert/delete beats, time shift track, copy melody from bar... to bar..., etc. Press Option+C to Copy Chords and/or Melody over a range of bars.

Time Shift Melody.
This will move (slide) the melody a certain number of ticks. There are 120 ticks per quarter note. For example, to give the song a more laid-back feel, time shift it about 10 ticks ahead.

Intelligent Humanize of Melody and Soloist track.
Most quantize routines can leave the music sounding stiff and unmusical. Some attempt to “humanize” a part by adding “randomization,” which rarely has the desired effect since humans don't randomly change timing or volume. Band-in-a-Box uses intelligent humanization routines that can humanize a melody from one feel to another, from one tempo to another, and vary the amount of swing to 8th notes. The results are very musical, with natural sounding melodies.

Let's look at some of the parameters found under the Humanize menu items.
In this example, Melody | Humanize Melody was selected. This opens the Quantize to New Tempo or Feel dialog box.

We have broken down the Humanize effect into 5 main categories:

1. Tempo
2. Lateness
3. 8th note spacing
4. Legato
5. Feel

The best way to learn how these parameters combine is to try them. You can always press [Undo] button if you don't like the results. For example, try changing the tempo of a song to see the changes that this will make to the 8th note spacing and lateness.

Tip: Usually, when a musician plays at faster tempos, he/she plays the swing 8th notes closer together, and a little later.
These categories are very straightforward and you should have no trouble achieving the desired results. Remember to apply such parameters as Legato and Lateness sparingly.

**Insert Beats/Delete Beats in Melody.**
For example, to insert 2 bars in the melody at bar 5, Choose Melody | Insert Beats In Melody, and select bar 5, and select 8 beats (2 bars) to insert.

**Additional Copy function for Chords/Melody**
This allows you to Copy Chords and/or Melody for a range of bars. Press the [Copy] button to launch the dialog box or select the Copy From.. To option from the Edit menu or press option+c.
Chapter 10: Audio Features

RealTracks and RealDrums

With the introduction of RealDrums and RealTracks, Band-in-a-Box adds live audio to its mix. These “real” parts add a human element that brings new life to any Band-in-a-Box arrangement. Any Band-in-a-Box part can be played in audio by a “real” drummer or instrumentalist from tracks recorded by top session players and recording artists. These features are fully described in their own topics, but using them is easy as 1-2-3.

Generating RealDrums

1. **Ctrl+click** (or right click or double click) on the Drums part on the main screen. A contextual menu will open.

2. Click on *Choose Real Drums*... to open the **RealDrums Picker**.

3. Choose a RealDrums style and press **[OK]**.

Your song will play with an audio drum track generated from live recordings by a studio drummer.

Generating RealTracks

1. **Ctrl+click** (or right click or double click) on the instrumental part that you want to convert to audio. A contextual menu will open.

2. Click on *Choose RealTracks*... to open the **Assign RealTracks to Tracks** dialog.
3. Choose a RealTracks instrument and press [Generate Track].
Your song will play with an audio instrumental track generated from live recordings by a studio drummer.

**Render MIDI Track to AIFF File**

Any Band-in-a-Box MIDI track can be automatically rendered to an AIFF audio file from its contextual menu. The menu opens with either a right mouse click, Control+click, or a double click on the part name. By selecting the Menu command *Save MIDI track as AIFF file* the complete Band-in-a-Box track will be rendered to an audio file. The file can then be imported into another audio program, such as GarageBand or Cubase.

**Rendering Audio Files**

**Direct-to-Disk Audio Rendering**

Audio rendering means converting a MIDI song to audio format, usually to an AIFF file or a compressed M4A file. Press the [Audio] button on the main Band-in-a-Box screen to render your Band-in-a-Box song to an AIFF, M4A, or WAV file. The song is rendered automatically in 5 – 10 seconds through the built-in Apple DLS Music Device or Core MIDI. It’s that easy!

You can choose to render the full mix of MIDI tracks and RealTracks together, or just the mix of RealTracks or MIDI tracks alone. By selecting “Individual RealTracks” or “Individual MIDI Tracks” each track will be rendered to its own separate file. This allows for complete control when the files are imported into another program for further editing and mixing. There is a choice of output formats.
- **AIFF** (Audio Interchange File Format) is a lossless audio format most commonly used on Macintosh computer systems. The audio data in a standard AIFF file is uncompressed pulse-code modulation (PCM). This is the format to use for the highest quality, but the file size is large – typically 10MB per minute of stereo audio at a sample rate of 44.1kHz and a 16 bit sample size.

- **M4A** is an audio file that uses high-quality MPEG-4 audio compression. It uses the same compression algorithm as an MP4 video file, but an M4A file is audio-only and does not contain a video track.

- **WAV** is another lossless audio file format (usually PCM) based on the Resource Interchange File Format (RIFF). It is more common on Windows systems, but can also be played by the Macintosh. Use this format to export lossless audio files to a Windows computer.

When rendering audio files you have the choice of making stereo or mono files. The Auto Channels setting will use the current Band-in-a-Box setup.

The Normalize option will normalize individual tracks or the complete arrangement. Normalizing boosts the volume to a maximum level without distortion. Most professional music tracks are normalized.

To enable this, set the “Normalize Rendered Files” option to true.

By default, the rendered files are save to /Applications/Band-in-a-Box/Song Renders in a subfolder ending in _Render Folder.

This example shows the default location for rendering the individual tracks of the =GeorgPG Demo file. The =GeorgP Demo_RenderFolder will be created in Song Renders, and, since Individual RealTracks is selected, it will contain separate AIFF files for both the pedal steel and guitar RealTracks.

![Render to Audio File(s)](image)

Click on this button to specify a different folder location for the rendered audio file.

With the audio rendering feature you can save your files directly as audio files for use in other programs (GarageBand, Cubase, etc.) or in Internet formats.

**Audio Reverb Control**

The Reverb control for individual tracks with RealTracks or RealDrums is added so you can easily add audio reverb.

![Audio Reverb Control](image)

At the top of the screen, there is an “A.REV” (Audio Reverb) control. Click on an instrument radio button, and then set the Audio Reverb for it. The Audio Reverb varies from 0 to 127. Clicking on the left hand side of the control allows you to enter a setting, or click on the up/down arrows.
Note that this only applies to RealTracks, since MIDI tracks have MIDI Reverb, which is set via a “REV” control.

There is also a feature that automatically adds reverb to RealTracks, according to instrument type. (No Reverb is added to Bass for example, but most instruments get reverb.) This feature defaults to on, but you can turn it off in RealTracks Settings or Reverb Settings dialog.

If you just want more or less added, you can adjust the “Strength %.” For example, the default adds a reverb of 40 to most tracks, but if you set the strength to 75%, then 30 will get added.

**Reverb Settings**

The default is a “room” type of reverb, but the reverb type is also settable and is saved with the song. To do this, press the Audio Reverb toolbar button, and adjust the various parameters in the Reverb Settings dialog.

You can enable/disable the audio reverb. If you disable it, this will save some CPU cycles, so this might be advisable on an older/slower machine if you hear that the audio is clicking or not keeping up.

Click on the green Select a Preset button to open the list of presets. This list will show only the “Band-in-a-Box Default Reverb” until you save some presets of your own.
As you adjust the settings, they will be applied to the current song. The [Swap “Default”] button toggles between your current settings and the default settings. This allows you to hear the effect of the changes you make to the settings.

Use the row of “room” buttons to load typical settings for different types of spaces. These buttons are a convenient way to either apply a particular effect or to load settings that you can then tweak to make your own preset.

Reverb Parameters

**Pre-Delay** is the time delay of first reflections.

**Decay** is the time it takes for reverb to decay. Reverb time is measured as RT60, the time it takes for reverb to decay to a level -60 dB below the dry signal level.

**LF Rolloff** gradually reduces the bass frequencies. If you can’t add enough reverb because the sound gets too muddy, try increasing the LF Rolloff slider. It is adjustable between 50 Hz and 500 Hz.

**HF Rolloff** is the rate at which the high frequencies die away as the reverb decays. Rooms with hard surfaces are typically bright, but rooms with soft surfaces are usually darker. It is adjustable between 1 KHz (dark) to 11 KHz (bright).

**Density** is the density of low-level echoes near the end of the reverb tail. High Density settings add a sheen to the sound.

**Level** adjusts the final level of the plug-in.

Typical Reverb Settings

- A large hall might have long Pre-Delay, long Decay, and moderate Density.
- A hard large space, such as a gymnasium, might have long Pre-Delay, high Density and high HF Rolloff.
- A soft large space, such as a concert hall with carpet, padded seats, hangings, might have medium Density and low HF Rolloff.
- A small hard space, such as a tile washroom, might have short Pre-Delay, medium-to-long Decay, high Density, and high HF Rolloff.
- A small soft space, such as a large living room, might have short Pre-Delay, short Decay, medium-to-low Density, and low HF Rolloff.

Saving Settings to Presets

You can save your reverb types as presets, and the current settings will also be saved with the song in a Preferences/PGReverbSettings.bin file.

To save the current settings to a preset, type in a name for your preset in the “Preset Name” field.

Then click on the red **Save a Preset** arrow and choose a location in the Preset list. You can write over an existing name.

A prompt will ask you to confirm that you want to save the preset.
Select [Yes] to save the new preset to the chosen location.

**Auto Reverb**

Enable “Auto-Add Reverb to RealTracks” to automatically apply preset amounts of reverb to RealTracks according to the instrument type. No reverb is added to the Bass part, for example, but most instruments get reverb.

If you just want more or less reverb added overall, you can adjust the “Strength %.” For example, the default Band-in-a-Box reverb setting is 40 for most tracks. If you set the strength to 75%, the Band-in-a-Box becomes 30.

You can save the current settings as the Default Reverb.

Click on [Restore Defaults] to go back to the original “factory” reverb settings for Band-in-a-Box Default Reverb.
Band-in-a-Box is a favorite of musicians, students, and songwriters everywhere. They know that as well as creating great accompaniments and arrangements, Band-in-a-Box has amazing wizards to save time and work, endless opportunities for advancing musical skills, and, above all, it’s fun!

Want to play along on your computer’s QWERTY keyboard? That’s what The Wizard is for, and it doesn’t make mistakes.

Got a recording to transcribe? The Audio Chord Wizard saves your time, your ears, and your patience by figuring out the chords for you. In just a few minutes, you can be playing along with the recording by following the chords on the screen.

Need to know the chords for a MIDI file? Just load the file with the MIDI Chord Wizard and turn it into a great sounding Band-in-a-Box arrangement at the same time.

Band-in-a-Box knows chords. The Chord Substitution Wizard lets you choose 4-bar sections to substitute or automatically substitutes chords for all or part of the song for you. Build and audition your own chords with the Chord Builder and Chord Preview features.

Guitarists can view any part on the guitar fretboard in the Guitar Window, and use the Guitar Tutor to see how different styles of guitar playing use different chords and positions.

The Animated Drum Kit is a MIDI feature that is fun to watch, and fun to play. You can play along on drums with your computer keyboard, and record or overdub drum parts too! Use the Chord Breaks feature to take your own instrumental breaks while brushing up on your timing too.

With these features, you might find that Band-in-a-Box becomes your best musical friend!

**The Wizard**

The Wizard is an intelligent play along feature that uses your QWERTY keyboard to play along with Band-in-a-Box. This also allows you to record to the melody or soloist track without an external MIDI keyboard, and can even be used to trigger the Soloist Wizard. Also, play along using the Wizard can use the harmony feature, so you can play along live from your QWERTY keyboard in 4-part Saxophone harmony for example.

**Turning the Wizard On/Off**

Click on the Wz box to turn the Wizard feature On/Off, or select the Wizard Playalong option from the Song menu, or press Option+W.

**Playing the Wizard**

The Wizard keys are only active during playback. The active keys are the lower 2 rows of the keyboard.

```
A S D F G H J K L ; ' ← This row plays PASSING tones (2nd, Fourth, Sixthth)
Z X C V B N M , . / ← This row plays CHORD tones (root, 3rd, Fifth, Seventh)
```

**Changing Instruments / Settings For The Wizard**

The Wizard is a play along instrument, so is treated just like the THRU instrument. Changing Instruments, Volume, Reverb, etc. for the Wizard is therefore the same as for the THRU instrument. (i.e., Click on the THRU button, then select instrument etc.) You can record the Wizard and it will use THRU harmonies if selected.

**Play Regular Notes**

There is now an option to play regular “non-smart” notes, for those of you up to the task of poking out actual melodies on your QWERTY keys.

In the Song menu, toggle Wizard Uses ‘Smart’ Notes “Off” (unchecked) to have the Wizard provide you access to a chromatic scale, and toggle “on” to have Band-in-a-Box provide you with notes based on the chord/key of the song.

**Soloist Wizard**

Additionally, you will find another great Wizard feature in the Soloist menu; the Solo Wizard. Toggling this option “on” enables the Soloist Wizard. As you play notes on the MIDI or QWERTY keyboard, the program will play “correct” notes in the style of the current Soloist! This means that you can play a perfect solo every time, simply by pressing any key on your MIDI keyboard or QWERTY keys.
Beyond impressing your friends with your newfound improvisational prowess, this feature has practical implications as well. For example, you can concentrate on practicing your solo phrasing and playing “in time” without concerning yourself with which notes to play (Band-in-a-Box will supply the correct notes: see the next section for details.)

**Recording Using the Wizard**

To record the Wizard, press the [Rec] button to record, and play the Wizard. This will be recorded. You can use the feature of recording the Wizard to enter music without a MIDI keyboard that doesn't sound as stiff as most music entered in step time. This is how it works:

- Press [Rec] to record.
- As the song plays, play the melody that you want on any Wizard key, using the same key for each note, in the rhythm of the melody. The Wizard notes won't be the exact melody, but don't worry about that as you record.
- When you're finished, go to the Notation window. You now have the notes with the correct durations and times, but the wrong pitches.
- One by one drag the notes up to the correct melody note, holding down the shift, control, and key for sharps, flats, and naturals respectively. You'll then have entered a melody that sounds like it was recorded from a keyboard, without the stiff sound of a melody entered in step time!

**Note:** If you have the wizard on, the SPACEBAR won't stop playback. You need to press ESCAPE to stop playback if the Wizard is on. This is because people mistakenly hit the spacebar while playing the wizard, which would stop the song inadvertently.

**Audio Chord Wizard (“Chords from MP4”)**

This amazing wizard automatically figures out the chords from any MP4, M4A, AIFF or other audio file and displays them in Band-in-a-Box. Just load an audio file to instantly see the chords.

Launch the Audio Chord Wizard with the toolbar button or with the *Windows | Run AudioChordWizard* menu command.

**Audio Chord Wizard Window**

The **Audio Chord Wizard** window shows an overview of the open wave file with the bar lines and chords as interpreted by the wizard below. Controls and settings are found in the toolbar at the top of the window, and the lower part of the window either shows chords and bars in a Chord Sheet view or notes in a Note Bars view.

The zoom buttons at the bottom of the screen adjust the scale of the display. The minus button shrinks the display to show more bars, the plus sign expands the display but shows fewer bars.
Primary Program Controls

Toggle Play/Pause (Spacebar or multimedia Play/Pause key).

Stop play, rewind to beginning (Esc key or multimedia Stop key).
Press letter “W” to rewind without Stop.

Set Nearest Bar to Current Time (Tab or F8 key).
Exit and send chords to Band-in-a-Box.

Set the Bar One location. The Audio Chord Wizard works best if you do this first, before any other actions. Moves nearest bar line to current play position. Tab key also sets bar lines.

Moves nearest bar line to current play position. Tab or F8 keys also set bar lines.

Exit and send chords to Band-in-a-Box.

Average tempo, Control+click the tempo box for options.

Song time signature, 2/4 to 12/8 supported.

Song key signature.

Use to correct pitch of song if necessary to improve chord recognition..

Select either the Chord Sheet view to follow along with the chords of the song, or the Note Bars view to see the notes interpreted by the Audio Chord Wizard in a piano-roll type of display.

Keyboard Shortcuts

Keyboard shortcuts make it easier to navigate the song and tap in bar lines without having to work the mouse with start/stop/scroll actions.

Play/Pause - Space Bar.
Stop – Esc.
Tap Barline - Tab key.
Jump To Song Start- W key.
Jump Forward One Bar - right arrow key.
Jump Back One Bar - left arrow key.
Jump Forward Four Bars - down arrow key.
Jump Back Four Bars - up arrow key.
Chordsheet Overview

The Chordsheet window in the Audio Chord Wizard shows the chords for the whole song on a single screen. This allows you to click on a bar on the Chordsheet to jump to that area of the song.

You can mark sections of the song using part markers, and the sections will begin on a new line with a line space between so they are clearly seen. So you can then also learn the form of the song, as you can see the various sections (intro/verse/chorus/break) at a glance, or quickly jump to the any section simply by double clicking on that part of the Chordsheet.

For this discussion, open up /Band-in-a-Box/Tutorials/Frontier.m4a.

You will now see the song, and the Chordsheet window in the Audio Chord Wizard is visible.

Play the song.

Locate the start of bar 1 on the waveform and click on the [Set Bar One] button. You may have to stop the song and start over again to pinpoint the location, but once you do the Audio Chord Wizard can accurately mark the rest of the bar lines. You can insert your own bar lines by clicking on this button or by pressing the Tab key. When a new bar starts, hit the [Tap Barline] button (or Tab key). This is called “tapping in a bar line.”

Bar lines can be tapped in as the song is playing or when it is stopped. You’ll see that if you tap a bar line near to an existing bar line the existing line will be moved to the location of your tap.

The first time you do that, the program will consider that point to be “bar 1.” Tap in a few more bar lines. Click on the Chordsheet, and the music will jump to that location.

Now, let’s define some sections in the song.

If a bar begins a new section, click on the bar # on the Chordsheet, or press the P key to put in a part marker. Pressing P again will change the part marker, and then turn it off.

Now the song is divided into sections, with space between each section, and each section starting on a new line. To change the # of bars per row, or rows per screen, right-click or Control+click on the Chordsheet.
Chords may be edited in the **Audio Chord Wizard** with a right mouse click or **Control+click** on the chord. When **Edit Chord** is selected, a highlight cell opens at the chord location. Type in the name of the new chord using standard Band-in-a-Box chord entry characters and press the **Enter** key to make the edit. The edited chord name is colored blue.

Individual edits can be removed with the **Remove Chord Edit** command, or all edits in the song can be removed with the **Remove All Chord Edits** command. Part markers, chord symbols, key signature, and tuning setting are saved in Band-in-a-Box, and are passed back and forth to the Chord Wizard.

The Audio Chord Wizard is a great way to learn the chords of songs. You can add section markers and divide the song logically into sections, so it is also a great way to learn the “form” of the song, an essential part of learning popular songs.

As well as the chords of the song, the Audio Chord Wizard also figures out,
- the tempo of the file,
- bar lines throughout the song,
- fine tuning detection (e.g. 5 cents sharp from A440),

Note: **Audio Chord Wizard** estimates the chord progression of an audio file. It is NOT an Audio-to-MIDI transcriber, which would be a much more elaborate program.

**Note Bars**

The **Note Bars** display is an alternative to the Chordsheet window. It shows many of the notes found in the file. This serves as a helpful guide to transcription, and can also help to verify chord names.

The Audio Piano Roll is divided by a blue horizontal line. Notes below the blue line have been identified as the bass part by the Audio Chord Wizard.

The note bars look like a MIDI Piano Roll, but they are not exactly the same as a MIDI Piano Roll. Audio Chord wizard detects the strongest frequencies found in each eighth-note time slot, and displays them in the Note Bars window.

Sometimes the displayed frequencies REALLY ARE instrument notes played in the audio file. But they could be spurious information, such as the accidental loudest frequency of a drum beat. A midrange frequency note-bar might be showing the sum of harmonics from several instruments, each instrument's harmonics contributing to the strength of that frequency.
The Notes Bars display information is real and useful, but try not to assume that every displayed note-bar is a real note in the audio.

**Opening Files**

When the Audio Chord Wizard button is pressed, the program window will open and then launch the **Open Wave File** dialog for selection of the audio file to be analyzed. There is a file named Frontier.m4a in the /Band-in-a-Box/Tutorials folder that you can use to try out the Audio Chord Wizard.

![Open Wave File dialog](image)

When you select a file to open you will see a series of **Progress** messages. The Audio Chord Wizard is then launched, and more progress messages will flash on screen as the file is analyzed and imported. As well as interpreting the chords, the program is also inserting bar lines and setting the tempo.

**Chord Detection**

Chord Detection accuracy depends on the accuracy of the bar lines. If bar lines are not well-aligned then the Chord Detection can be expected to be rather poor. It is quick and easy to align the bar lines on most songs, once you get the hang of it.

The first task is to locate the beginning of Bar One. Since an audio file could have an arbitrary amount of silence at the beginning of the song, and many songs begin with a pickup partial bar, ACW cannot easily guess the first bar without a hint from you.

The shortcut keys and mouse playback controls make it easy to find Bar One. Tap the space bar to begin play, watch the Location Cursor, and listen for the downbeat. If the Location Cursor passes the downbeat and you were not completely certain of the location, you can tap the **W** key to rewind to the song beginning and replay the first part of the song, to audition the downbeat as many times as necessary to make sure of its location.

You can also single-click in the Chords panel to jump the playback position. If the rhythm is unusually complicated near the downbeat, you could repeatedly click just a little before the suspected Bar One location, to zero-in on the exact downbeat.

In the following example song, we have discovered the downbeat of Bar One, so we **Control-click** on that location to Set Bar One.

![Set Bar One](image)

Now the Bar One bar line is red (shown below). The red Triangle bar indicator indicates that we have edited that bar line. The Red Triangles are called Good Bar Lines (GBL's). The green Triangle bar indicators are bar lines which ACW has automatically inferred from its automatic tempo detection PLUS your edited Good Bar Lines. We call the green automatic bar lines Inferred Bar Lines (IBL's).

On this example song, the initial automatic tempo detection did a pretty good job. Simply setting Bar One has caused the first four bars to be properly aligned to the music. On some songs, Set Bar One is the only action necessary to get good bar alignment for the ENTIRE tune.
Approaching Bar 5, the automatic tempo tracking begins to drift. The current position of the Location cursor is where Bar 5 SHOULD be. That is easy to fix.

If you prefer real-time control, just tap Tab or the F8 key where the downbeat should actually be. If you prefer stopped-time editing, you can either mouse-drag Bar 5 to its desired position, or drag the playback Location cursor to the desired position and then tap Tab or the F8 key.

When we tap the Tab key, or alternatively click on the [Tap Barline] button, the Audio Chord Wizard will automatically recalculate the bars to the right of the playback position as playback continues.

Now the Good Bar Line is drawn red to show that it was edited. The chords are now much better. In the case of this song, setting this one bar line is sufficient to get good tracking to the end. Songs which have drastic tempo changes, loose feel, or time signature changes could require a few more adjustments.

When satisfied with the bar lines and chords, click the [OK – Send to BIAB] button to return the chords and tempo map to Band-in-a-Box.

**Special Cases**

**Time Signature:**

If a song is not in the default 4/4 time signature, set the Time Signature very early before you do anything else.

**Bad Initial Tempo Estimates**

**Double/Half Tempo:**

Sometimes Audio Chord Wizard will guess double or half of the tempo you might prefer.

**Slightly Wrong:**

Sometimes syncopated songs can have musical anticipations which make ACW guess a tempo slightly too fast or slightly too slow.
Chapter 11: Wizards, Tutors, and Fun

**Completely, Horribly Wrong:**

Some songs have rhythms difficult for a computer to understand. Sometimes a song's rhythmic beats are spaced in such a way that a song with a perfect Tempo of 120, might mathematically BETTER fit the audio beats at some simple (but wrong) related ratio such as 80, 100, 160, or 180 BPM.

If the initial Tempo Estimate is pretty good, the Tap Bar line function will be the easiest way to fix such errors, requiring only a few keyboard taps during playback.

But if the initial tempo estimate happens to be horribly wrong, it helps to make the initial tempo “in the ballpark” BEFORE you tap a few Tabs or F8's to make it completely right.

**Control+click** on the Average Tempo control for some easy automatic fixes.

In some cases, there is a good reason to initially set the tempo artificially slow by using the “Find Best Half Tempo” function.

For example, if the initial tempo estimate is considerably faster than the tempo that you want to tap in, the Tap Bar line function can mistakenly think that you want a very fast tempo, which fills the remainder of the song with unwanted fast-tempo bars. In that case, if you initially set the tempo very slow, ACW will be unlikely to misinterpret your Tap Bar Lines.

**Set Key Signature**

Once the chords look reasonable, for instance if your song looks like it is probably in the key of F, set the Key Signature control to F for better chord spelling. This only affects the cosmetic display of notes and chords (flats and sharps). The Key Signature control does not currently affect the basic accuracy of Chord Detection.

**Adjust Fine-Tuning**

If a song is significantly off from concert pitch, the notes are “in the cracks,” which makes chord detection less accurate.

If your chords look reasonable, there is no need to bother with fine tuning. Most songs are recorded pretty close to concert pitch.

But if you see numerous chord errors, it may help to adjust the Fine Tune control.

If you are playing along with a song on your keyboard, you might decide to make an ear-estimate of how far out-of-tune is the song:

For instance, you could adjust the fine-tuning control on your keyboard until your keyboard matches the song’s pitch (according to your ear). Then you could look at your keyboard's tuning readout, and adjust ACW's Fine Tune control to match. Either click-drag ACW's Fine Tune control (like a slider control), or **Control+click** the Fine Tune control then type in a number.

The Fine Tune control currently does not change the pitch of playback, it only improves chord detection on mistuned songs.

The Fine Tune control is calibrated in cents, $1/100$th of a semitone. Therefore, if a song is perfectly in the key of C, but if you set Fine Tune to $+100$ Cents, ACW would display chords in the key of B. Similarly, if you set Fine Tune to $-100$ Cents, it would display that song's chords in the key of C#.

That simple use of the Fine Tune control is just a backwards way to transpose the chords. But if you set Fine-Tune somewhere in the middle, ACW looks for notes that are somewhere “in the cracks” between the piano keys. For instance, if your song SHOULD be in the key of C, but it was unfortunately recorded 50 cents sharp.

There could be many reasons that a song was recorded off concert pitch. Maybe the recording studio had a broken tape recorder. Perhaps the piano tuner was smoking crack, or the singer couldn't quite hit the highest note. Maybe
the vinyl record cutter was off-speed, or some record executive decided that the song was 10 seconds too long for airplay, and instructed the mastering engineer to speed it up a little bit. In such cases, the Audio Chord Wizard can get confused, mis-identifying some pitches too high and other pitches too low, detecting nonsense chords. So if your favorite song was unfortunately recorded 50 cents sharp, you can set the Fine Tune control to +50 cents so that ACW will properly display in the “original” key.

**Auto Estimate Tuning**

ACW can automatically estimate the tuning, which helps in some cases. Since the estimation is math-intensive, ACW only analyzes one bar of music at a time.

**Control+click** somewhere inside a bar and pick the Estimate Tuning function.

After the process is finished, up pops the results dialog.

As advised in the dialog, results can be improved by carefully picking the bar. Bars with relatively long notes are easier to analyze, compared to bars containing flashy fast melodies.

It can be useful to spot-check a few bars. If several spot-checks give similar answers (within a few cents), you have good confidence that the results are actually meaningful, not being randomly affected by out-of-tune melodies or loud drums.

However, if the first estimate reads +43 and the next measurement reads -12, then it probably means that your song is not a good candidate for automatic Tuning Estimation.
Odd Length Bars and Drastic Tempo Changes

If a 4/4 song contains occasional bars of 3/4, 5/4, or whatever, or if there are sections where the music has an extreme ritard or accelerando, sometimes you can just Tap Bar Lines to adjust it.

But it is sometimes more convenient to manually add or delete bar lines. The following example song has an overall Time Signature of 4/4, but Bar 9 should have a time signature of 2/4. If you simply Tap Bar Line on 9:3 to shorten the bar, then ACW will mistakenly decide that you wish to make all the following bar lines double-tempo 4/4.

Solution

First, Control+click on the beat 9:3, and Insert a bar line.

Now a new bar line is added, and three new GBL bar lines are flagged red.

Control+click on the new shortened Bar 9 and set the Time Signature to 2/4.
Change Bar 10 to its desired duration. Hover the mouse over the red triangle marker at Bar 11, and the mouse cursor becomes a drag cursor. Click and drag the bar line to the location marked 11:3.

Now we have edited bar 9 to have a 2/4 Time Signature and preserved the song tempo on both sides of the 2/4 bar.

**Note Bars Display**

The Note Bars display looks like a MIDI Piano Roll, but it is not exactly the same as a MIDI Piano Roll. Audio Chord wizard detects the strongest frequencies found in each eighth-note time slot, and displays them in the Notes Display.

Sometimes the displayed frequencies REALLY ARE instrument notes played in the audio file. But they could be spurious information, such as the accidental loudest frequency of a drum beat. A midrange frequency note-bar might be showing the sum of harmonics from several instruments, each instrument's harmonics contributing to the strength of that frequency.

The Notes Display information is real and useful, but try not to assume that every displayed note-bar is a real note in the audio.

**Display Controls**

**Horizontal Scroll Bar**

Scroll forward/back in the wave file.

**Plus/Minus Zoom Buttons**

Zoom the display to show more or less detail.
MIDI File Chord Interpretation Wizard

Many people who play music by ear think of songs in terms of “Chords and Melody.” However many MIDI files lack chord symbols, so they become difficult to learn without the user having to figure out the chords in a time consuming process.

Now you can open up any MIDI file in Band-in-a-Box, and Band-in-a-Box will automatically figure out the chords of the song for you. It automatically analyzes the MIDI file, figures out where the Bass, Piano, Melody, and other tracks are, and then figures out the chord changes for the song. The chords are written onto the Band-in-a-Box chordsheet like any other song. This allows you to quickly learn how to play a song from a MIDI file - just read it into Band-in-a-Box and you'll see the chord symbols, and then learn the melody! You can also read tracks into the Melody and Soloist tracks.

You can import the chords from a MIDI file. To do this, first blank the Chordsheet, by choosing File | New. Then select the menu item File | Import Chords from MIDI File or press the keystrokes (Ctrl+Option+I). This launches the Chord Wizard dialog.

Press the [Open (Change)…] button to select the MIDI file that you'd like to import. If you select the “All” checkbox, then all files will be displayed. If you deselect the “All” checkbox, then only filenames ending with .MID will be displayed.

**Note:** Any Band-in-a-Box song can quickly be converted into a MIDI file by pressing the [MID] button, or with the keystrokes Option+S, or from the menu File | Save Standard MIDI File. The song will be saved in the Band-in-a-Box folder with the same file name, but the file type will be “.MID.” For example, the Band-in-a-Box song Violet.MGU becomes the MIDI file Violet.MID.
Once you've selected the file, you can press the **[INTERPRET CHORDS NOW]** button. When you do that, the chords will be interpreted from the MIDI file, and written onto the Chordsheet.

Prior to pressing the button, you might want to make some custom settings.

When you load in the MIDI file, Band-in-a-Box automatically interprets many things from the MIDI file for you. Normally you'd want this to happen, but if for some reason you'd prefer to make the settings yourself, you can set “Auto Interpret settings from MIDI file” to false.

**The settings that are determined automatically for you are:**

- The **key signature** of the song (MIDI file). Some MIDI files contain a special event that states the key signature of the file, but most don't. For the ones that don't, Band-in-a-Box analyzes the tracks and makes a “best guess” at the correct key signature for the song. It usually gets it right, but if it’s wrong, it’s likely out by a 4th or 5th interval.
- Tempo, time signature.
- The channels used for the Bass part, Piano (comping) parts.
- The channels used for the Melody parts.
- The number of bars in the song to import, including the number of lead-in bars in the song.

Once you have loaded in the MIDI file, (by pressing the **[Open (Change)…]** button), and assuming that you have the “Auto Interpret” set to true, you'll see that the dialog displays the settings that the Chord Wizard has found in the MIDI file for the key signature and channels used for the song.

**Let's work with an example song called Violet Song.MID.**

This should be included in your Songs folder. For this example, we're going to interpret the chords of this MIDI file and read them into Band-in-a-Box.

Start with a blank chordsheet by choosing **File | New**.

Choose the MIDI file Chord Wizard dialog by choosing **File | Import Chords from MIDI File**.

Press the **[Open (Change)…]** button to select the MIDI file, and then choose the file that you'd like to import. In this case it is called “Violet Song.MID.”

Once you load in the file, you'll notice that the Chord Wizard has analyzed the MIDI file and made these determinations for you.

It has automatically determined that the “Violet Song.MID” file

- **# of lead-in bars in MIDI file** 2  
  has 2 bars of lead-in,

- **How many bars to import?** 103  
  has 103 bars of chords,

- **Key**  F
  **Tempo** 120
  **TimeSig.** 4 / 4
  is in the key of F with a 4/4 time signature, and a tempo of 120.

- **Bass part is on channel(s)** 2  
  The Bass part is found on channel 2.
The chording (comping) parts are found on Channels 3, 6 and 7.

The Melody is found on Channel 4.

There are no other parts like the Melody that should be put on the Soloist track.

Presets for Chord Options

Now, after loading in the MIDI files, you'd normally have a look at these settings to see if they seem reasonable for your MIDI file. If they are not, you can change the settings. For example, if you know that the key signature of the song is not F but is C, then you would set that. Similarly, if you knew that the Melody channel was on channel 3, you could set that to override the Chord Wizard settings.

Once you've done that, choose one of the Presets to quickly enter the settings to the type of song that you are trying to interpret. Preset choices are:
- Jazz Standard, Jazz (Modern), Pop (with seventh chords), Pop (with no seventh chords), Rock, Pop Ballad, Solo Piano and Solo Piano (Jazz).
Presets

Chord Options

When you choose one of these presets, it automatically makes a number of settings in the Chord Options section of the dialog, but you can override them in this dialog. These include,

Chord Resolution: (Range from 1 beat to 4 bars, default = 2 beats). This is the minimum number of beats for a chord. For example, if you set it to 2 beats, then the Chord Wizard will never attempt to come up with different chords that are only a beat apart.

Tip: If you have a song that has a short section that does include chords every 1-beat, you can redo that section of the song with a 1-beat resolution.

Include Slash Chords: If set, the Chord Wizard will include “slash chords” like F7/A or Cm/G.

Bass Part Type: You can set this to “Root only,” “Root third and 5th,” or “Walking bass.” If you choose “Root Only” the Chord Wizard will assume that any bass note is the root of the chord. Choosing “Root-3-5” will cause the Chord Wizard to assume that the bass pattern is mainly on the root-3-5 of the chord. If you choose “Walking bass” it will assume that the bass notes can be changing and can include many notes beside the root. Setting the “Walking bass” line will likely result in fewer chords overall than setting the “Root only” option.

Chords Allowed: The setting for “Allow Sus” chords determines if chords like Csus or Bbsus7 will be included. The “Allow 7th chords” specifies if 7th chords like C7 or Bbm7 would be allowed. Simple Rock songs might not have 7th chords or SUS chords. Allowing chords with no thirds should be set in a hard rock song, or similar song with “power chords” that might not contain the 3rd of the chords.

Bass Delay: Usually a bass player plays the root of the chord at or near the time when the chord changes. But in solo piano playing or some bass styles, the bass doesn't state the root until later on, and this setting should be set to “delayed” in a solo piano style of this type.

Method: You can also set the primary style of the song to Jazz or Pop using the Lead sheet Method combo box.
Using the Chord Options Presets to make settings for Violet Song.MID.

For the song “Violet Song.MID,” we know that this is a Jazz Swing type of song, so we press the preset called “Jazz Standard.”

By doing this, we see that the chord options have then been set to Chord Resolution of 2 beats, no slash chords, walking bass, sus chords, 7th chords, and Jazz lead sheet.

These settings look OK for our Jazz song; if we wanted to customize it (for example to allow slash chords) we could do it at this point.

So, to recap, using the Chord Wizard is a 3-step process.

1. We loaded in the song “Violet Song.MID.”

2. Pressing the preset button called “Jazz Standard,” we then looked at the Chord Options settings for the various channels and they looked OK so we didn't make any changes.

3. We then press the [INTERPRET CHORDS NOW] button – this gets the Chord Wizard to interpret the chords and write them to the Chordsheet.

Once we've pressed the [INTERPRET CHORDS NOW] button, we can see the results by looking at the Chordsheet. Here are the chords that were interpreted,

<table>
<thead>
<tr>
<th></th>
<th>F6</th>
<th>G7</th>
<th>C7</th>
<th>FMaj7</th>
<th>D7</th>
<th>Gm7</th>
<th>C7</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>F6</td>
<td>2</td>
<td>G7</td>
<td>C7</td>
<td>3</td>
<td>FMaj7</td>
<td>D7</td>
</tr>
<tr>
<td>6</td>
<td>C7</td>
<td>10</td>
<td>Gm7</td>
<td>C7</td>
<td>11</td>
<td>F6</td>
<td>12</td>
</tr>
<tr>
<td>14</td>
<td>FMaj7</td>
<td>15</td>
<td>G7</td>
<td>16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>C7</td>
<td>22</td>
<td>Gm7</td>
<td>C7</td>
<td>19</td>
<td>F6</td>
<td>20</td>
</tr>
<tr>
<td>22</td>
<td>Bb6</td>
<td>Bdim</td>
<td>F6</td>
<td>23</td>
<td>Bbmaj7</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Dm7</td>
<td>G7</td>
<td>27</td>
<td>Dm7</td>
<td>G7</td>
<td>27</td>
<td>Gm7</td>
</tr>
<tr>
<td>30</td>
<td>FMaj7</td>
<td>31</td>
<td>G7</td>
<td>32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>C7</td>
<td>35</td>
<td>Gm7</td>
<td>C7</td>
<td>36</td>
<td>F6</td>
<td>37</td>
</tr>
<tr>
<td>38</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>C7</td>
<td>43</td>
<td>Gm7</td>
<td>C7</td>
<td>44</td>
<td>F6</td>
<td>45</td>
</tr>
<tr>
<td>46</td>
<td>FMaj7</td>
<td>47</td>
<td>G7</td>
<td>48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>C7</td>
<td>51</td>
<td>Gm7</td>
<td>C7</td>
<td>52</td>
<td>F6</td>
<td>53</td>
</tr>
<tr>
<td>54</td>
<td>Bb6</td>
<td>Bdim</td>
<td>F6</td>
<td>55</td>
<td>Bbmaj7</td>
<td>56</td>
<td></td>
</tr>
<tr>
<td>59</td>
<td>Dm7</td>
<td>G7</td>
<td>60</td>
<td>Dm7</td>
<td>G7</td>
<td>59</td>
<td>Gm7</td>
</tr>
</tbody>
</table>

Chord Wizard results – interpreting from “Violet Song.MID.”

So that we can see how well the Chord Wizard did, we can compare it to the “correct chords” of the song, input by a musician listening to the song. You can see these by loading in the song “Violet Song.MGU.”
As you can see, by comparing the two sets of chords, the Chord Wizard got almost all of the chords correct in this example. The Chord Wizard purposely avoids chords like “C13,” it will put a simpler “C7” instead, since this is more like a typical lead sheet.

If you've read in the entire MIDI file, you have 103 bars of chords on the Chordsheet. This actually contains 3 choruses of the song. You might want to reduce that to a single chorus, by setting the chorus end of the song to bar 36, and then erasing the excess bars (after bar 36) by choosing Edit | Erase.

Examining the song that has been interpreted by the Chord Wizard.

You'll notice that the title (Violet Song), key (F,) and tempo (120) have been set to the values found in the file. Part markers are not set; the Chord Wizard doesn't try to guess where part markers might be occurring. You need to put the part markers in yourself. You also need to choose the style to use (a Jazz Swing style in this case).

If you examine the Melody track by opening the Editable Notation window and option clicking on some notes, or menu Windows | List Editor Window (Ctrl+Shift+L), you'll notice that the Melody track contains notes from Channel 4, which is what we specified in the Chord Wizard dialog.

Importing part of a MIDI file, or redoing a section of the Chordsheet.

Normally we'd want to import an entire MIDI file worth of chords. But if you only want to import some bars, you can deselect the “Import Complete Song” checkbox, and then specify where to start in the MIDI file (i.e. “the # of lead-in bars in MIDI file”) and what bar to start at in Band-in-a-Box (“Insert to BB starting at bar #”) and the # of bars to import (“How many bars to import”).

For example, using the song “Violet Song.MID,” we could redo a section of the song using different settings (for example, a chord resolution of 1 beat instead of 2 beats). If we were unhappy with the results at bar 7 and 8, we could redo this by making the settings as follows:

Other Settings for the Chord Wizard

The “correct chords” for the song “Violet Song.MID.”
Band-in-a-Box and PowerTracks Pro songs contain special events that write the exact chord names into the MIDI file. So if the Chord Wizard sees these events, it will use them instead of interpreting the chords, since they are likely to be completely accurate. If you'd prefer the Chord Wizard to ignore these chord events, you set the “OK to use PG Music Chord names from MIDI file” to false.

**Note:** If you set this to TRUE, then the Chord Wizard won't be working – it won't be interpreting chords since it relies instead on the chord names being present in the MIDI file.

The setting for “Write Chord Summary Notes to Soloist Track” is only used for diagnostic or special purposes. If set, the Soloist track will contain a special track that has a chord written every 2 beats (or whatever the setting for chord resolution is) that contains every note found for the chord. This shows you the type of logic that the Chord Wizard was basing its decisions on. If you encounter a song that gives incorrect results for the chords, you can try this setting, and then examine the Soloist track to see the actual notes of the chords.

You can optionally include controllers, pitch bend, and patch changes from the MIDI file.

**The Reharmonist**

**Generate Chords for a Melody**

Generate chords for a melody, or an improved chord progression for a melody, with the “Reharmonist” feature. This feature generates a chord progression in the chosen genre, based only on the melody.

The idea of the Reharmonist is to generate a completely new chord progression for a melody, in a genre that you choose (Jazz, Country, etc.). This ignores any existing chords in the song.

**Chords for a Whole Song**

This example uses the melody of Bach’s Brandenburg Concerto #1 in F, 1st movement, but you could use the melody of any song you choose.

Press the [Re-Harm] button to open the Select Re-Harmonist dialog and choose “Whole Song.” You could also use Windows | Auto-Generate Chord Reharmonization.

Deselect “Show-All” and then select the “Bossa Nova (Latin)” genre.
Note that the program has analyzed the melody, and decided that the key should be F (this is independent of any key that was already set in the song).

Now press “OK – Reharmonize.”

You will then have an entire chord progression written for the song, in a Bossa Nova style.

The Chord Progression generated is different every time, so the one that you get will be different from this one.

Play the file that you have generated. Notice the “Bossa” style of chord progression, with 2-5 progressions, and other typical Bossa chords.

Revisit the Reharmonize dialog, and try generating a new chord progression, in a new Genre.

For example, “EZ listening (Pop)” will generate a Pop style chord progression, very different from the Jazz chords in the Bossa version.

This dialog can also be opened from the menu command Windows | Auto Generate Chord Reharmonization.

Reharmonize Part of a Song

Now let’s use the Reharmonist in an “interactive mode” where it gives us choices of various chord progressions at each bar. Let’s see if we can interactively improve on the chord progression, according to our own tastes.

The first 2 bars generated originally are:

Make sure that the currently highlighted cell is bar 1.

Now press the Re-Harm button, but this time choose “Part of Song” and under “Set Range” enter Bar 1, Chorus 1, and the # bars as 2.
Here are two of the possible variations the Re-Harmonist has suggested for the first two bars.

<table>
<thead>
<tr>
<th>Bar</th>
<th>Chord</th>
<th>Chord</th>
<th>Chord</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a</td>
<td>FMaj7</td>
<td>F69</td>
<td>Gm7</td>
</tr>
<tr>
<td>1a</td>
<td>FMaj7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

See a List of Possible Reharmonizations
This could also be done with the menu command Windows | Chord Reharmonist Dialog (choose your own).
In the Reharmonize melody – new chords for 2 bars of the melody dialog you can choose from a list of reharmonizations for any 2 bar segment of the song. The reharmonization starts at the Bar # indicated. Use the [-2] and [+2] buttons to navigate to the segment to be recompiled.

Use the feature interactively by displaying a menu of possible chord progressions for a portion of the melody, and audition them to choose the best one using the “Bar Reharmonist.” This allows you to hear some new chord progressions for existing melodies, or brand new progressions for tunes without chords.

Choose a chord progression, and press [Do-Reharmonize NOW] and the program will insert that progression.

The progressions are sorted in alphabetical order, or from “best to worst” depending on this setting.

Chord Breaks
Insert Breaks (silence) in arrangement, also called Chord Breaks, is found in the Preferences 2 dialog. This is a great feature for practicing tempo control.
Select the # of bars, and Band-in-a-Box will play for, say 4 bars (selectable), and then will rest all instruments for the next 4 bars. Once set, this feature works automatically with all songs until you turn it off.

During the silence, you keep playing (comping, drums, melody, etc.), trying to stay in tempo. Drummers can mute the drum part.

When the band comes back in after the 4 bars, you’ll get instant feedback on how well you have maintained the tempo, if the band comes in time with you or not.

Once set, this feature works automatically with all songs until you turn it off.

**The Guitarist**

**Guitar Fretboard Window**

This is a window for guitar and bass players!. The onscreen fretboard displays any Band-in-a-Box track on guitar or bass. This Guitar window has features such as auto-setting of correct positions, notes named on screen, auto-octave adjust to play in selected position, and sizable guitar fretboard. They are explained in detail in the Guitar Settings.

Guitar players will be able to “read-along” to a Melody/Solo simply by looking at the guitar fretboard. An easy, intuitive, and fun way to learn guitar!

**Launching the Guitar Window**

To launch the Guitar Window, press the guitar button, or Ctrl+Shift+G or choose the menu item Windows | Guitar Window.

**Quick Tour of the Guitar Window**

Once launched, you’ll see the various areas of the Guitar window.

The top title bar states the key of the song is F, the Soloist track is displayed, and the guitar is at the 5th position.

The fretboard is displayed with the highest notes of the guitar at the top, and the open position of the guitar on the left.

There are names for the open strings displayed on the left (E B G D A E).

There are fret positions marked at the bottom of the fretboard. You can mouse click on these positions to change the current fret position. In the diagram above, the current position is position 5.

There are Note Names displayed. They are displayed for two positions on the guitar fretboard. One of the positions is the scale beginning with the third of the scale on the lowest string. In the key of F, this is the 5th position beginning on an A note (the third of the scale). Because it begins on the third of the scale, this position is referred to as the Phrygian Position (since an A Phrygian scale is the same as an F scale). Similarly, the other popular scale is the scale beginning on the 6th of the scale, in the key of F, this is up at the 10th position, and is called the Aeolian Position.

There are note names displayed in color, with ellipses around the notes that are in the scale. The root note of the scale is highlighted in red, the third and fifth of the scale are in purple, and the rest of the scale tones are circled in gray.

**Automatic Settings for Guitar Display**

Band-in-a-Box does many things automatically on the guitar window, to insure that the notes are displayed intelligently on a guitar fretboard. These include:

- Automatically setting the 2 positions that will display the note names based on the key.
- Auto-Scanning the track to be played, and adjusting the **display octave** on the guitar fretboard to insure that the best octave is picked to minimize the number of notes that will be outside of the current position displayed on the fretboard.

- After Auto-scanning the track, the **best position** for displaying the music on the guitar is determined. This is always one of the 2 positions (Aeolian or Phrygian) as discussed above, though you may over-ride this by clicking on any fret position.

- Color coding note displays. In addition to the note names being outlined in the colors (as discussed above), when the note is played, it is highlighted in green if it is a scale note, and yellow if it is an out-of-scale note.

**Guitar Window Toolbar**

At the bottom of the Guitar Window is the toolbar.

![Settings...](image)

These are the Guitar Settings. See below for details.

![<POS>](image)

The position button toggles between the 2 popular positions displayed with note names.

When you open the Guitar window, the first thing you'll want to do is choose the track that you want to display. Usually this will be a Melody track or a Soloist track. In the illustration here, the Melody track is the current track, and it colored blue to indicate this.

To get to the Soloist track, click on the `[S]` button or use the keystrokes **Ctrl+F5**. Similarly, you can display other tracks like Bass, Piano, etc.

**The Guitar Settings Dialog**

The Guitar Settings dialog opens with the `[Settings...]` button in the Guitar window. Use these settings to control the appearance and output of the Guitar window.

<table>
<thead>
<tr>
<th>Note Display</th>
<th>Fretboard Octave</th>
<th>Auto-Switch Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Track</td>
<td>0</td>
<td>Guitar Width (def =550) 934</td>
</tr>
<tr>
<td>MIDI Thru</td>
<td></td>
<td>Guitar Height (def =80) 136</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Multi-Channel Mode</th>
<th>Base Channel</th>
<th>Auto-Set Position</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>11</td>
<td>Phrygian Position</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fretboard Color</th>
<th>Show out of range notes</th>
<th>Show muted note of guitar style comping</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brown</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Use Inlays | Send Notes to (Editable) Notation Window | Output guitar track on 6 channels for this song
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100%</td>
<td>150%</td>
</tr>
</tbody>
</table>

![Note Display](image)

- Current Track
- MIDI Thru

[Image]
**Note Display Options:** If MIDI Thru is selected (Default=On), the Guitar will display the music played on a MIDI keyboard. If Current Track is selected (Default=On), the current track will be displayed.

The guitar will display information on channels 11 to 16 on strings 1 to 6 if Multi-Channel Mode is set to on (default). Channel 11 is referred to as the base channel (Default=11). You can edit notes on the notation to set the channels of the notes. Guitar controllers will also record information in this manner, so you can record on a MIDI guitar and see the display on the guitar fretboard. The base channel is normally 11, but you can set it to any channel (e.g. if set for channel 5, this would mean that channels 5 to 10 would be the guitar channels).

The Fretboard color can be brown or black. (Default=brown)

If you elect to not display note names, you can select “Use Inlays” and a Guitar inlay will be displayed along the neck. The inlays will only display if note names are not being displayed.

If Send Notes to Notation Window (Default=On) is set, when you click on the Guitar notes (and the notation window is open in editable notation mode or note roll mode) the note will be inserted at the current time line on the notation window.

If you would like to have Melody and Soloist parts written specifically for guitar, set this to “Yes.” Then the notes that are played on the six different strings will be assigned to six separate MIDI channels.

You can set the fretboard octave. For example, if the music is very low, and you need to boost the octave to display it on the guitar, set the guitar octave to 1 or 2. There is an auto-octave setting (discussed elsewhere). If selected, the Guitar Octave will get set automatically.

Use Index Finger position: If set, the scale will use the “index finger” to play notes that are one fret outside of the normal position, instead of the little finger.

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**Show out-of-range notes:** If set, any note will be displayed on the guitar, regardless if it is the range of the guitar or not.

The note names will get displayed in up to two positions, depending on the settings for **Show Notes at Aeolian Position** and **Show Notes at Phrygian Position** (Default=True).

The Guitar can be sized using the Guitar Width and Guitar Height setting or the preset buttons that set the size.

The **Auto-Switch position** setting allows the program to automatically switch the display of the guitar when a new track is loaded in. This auto-chooses the best position to display the track.

The [Set to Defaults] button sets the Guitar window to factory defaults.

**Guitar Tutor**

Use the “Guitar Tutor” to analyze any song. This feature will show the chords that are playing on the virtual guitar fretboard, in your choice of a Jazz, Pop, or Folk perspective. The Guitar Tutor is a fun way to learn about new guitar chords while playing along with your favorite Band-in-a-Box tune.

The Guitar Tutor is most useful on styles that aren’t guitar styles. This would apply to styles that don’t have an exclamation point (!) in the file name. This is because the guitar styles already have a guitar part that you can learn from, on the Guitar part.

Using the Guitar Tutor, you can see (and optionally hear) guitar chords played on the guitar fretboard. This teaches you how to play the chords on guitar.

To turn the Guitar Tutor on, launch the Guitar window and press the [Tutor] button.
Chapter 11: Wizards, Tutors, and Fun

Using the Guitar Tutor

Enable the Chord Tutor display by setting that checkbox. This will *silently* display the chords on the guitar fretboard. If you would also like to *hear* the notes, select the “Play chords through MIDI” checkbox.

The Tutor part uses the MIDI Thru part to playback on. You can control volume, panning, etc. by using the Thru settings at the top of the main Band-in-a-Box screen. You can select the patch in the Tutor dialog.

The tutor will display Jazz, Pop, and Folk voicings in easy, medium, and advanced forms. The advanced forms use inversions, and changing patterns of chords, while the easy ones just stick to the common “campfire” chords.

One of the tutors uses 3-note Jazz voicings to simulate the famous Big Band chord guitar comping styles. If you use this, you'll only see 3 notes in the chords of course. Since it sometimes helps to see the entire 4 chord voicing, in this case there is the option to show the muted note as well.

### Note

This applies to the Guitar Tutor. There is also the option to show this for the Guitar Styles. This option is present in the Guitar Options Dialog.

The Guitar Tutor stays enabled until you change the Guitar track to another track (for example, to change it to the Bass track). You can easily re-enable it by clicking on the [Tutor] button again.

Turn the tutor off by disabling the “Enable Chord Tutor Display” setting.

Chord Substitution Wizard

Reharmonizing a song with the Chord Substitution Wizard is a fun and educational way to perform or practice a familiar song in a brand new way. This feature is very easy to use; simply highlight an area of chords and select “Chord Substitution.” The possible chord substitutions are instantly displayed for you.

For example, if you had chords such as “Dm7 G7 Cmaj7,” a list of substitutions including the tritone substitution “Dm7 Db7b5 Cmaj7” would be offered to you for use in your song. There are also helpful comments associated with each substitution, showing you why a given substitution might work in each case (e.g., is the melody
compatible with the substitution, etc.). Or you can enable the “Auto-Substitution” feature and the substitutions will be selected according to the general preset preferences.

There are 2 ways to get chord substitutions, you can let Band-in-a-Box show you a list of possible substitutions to pick from yourself (User | Chord Substitution Dialog), or you can let Band-in-a-Box pick them automatically (User | Auto-Substitutions).

**Chord Substitutions Dialog**

The appearance of this dialog depends on what chords are present at the highlighted bar. This bar number is shown in the dialog and may be changed. In the example above, the chord is an F7 chord, so the substitutions shown are for an F7 chord. The substitutions shown may work for up to 4 bars, depending on the substitution. In the examples above, the substitutions work for 2 bars.

You can control what types of substitutions to see by using the Jazz/Pop checkbox. Some substitutions include more chords than the original, some simplify the progression, and these can be viewed using the checkboxes. You can elect to exclude substitutions that have a chord on each beat.

The “Types of Substitutions to include” combo box will filter the substitutions to include only the best substitutions or all of them.

The “reload” [Recompile] button is only used if you have edited the chordsub.txt file to add your own substitutions.

Once you see a substitution that you like, you can enter it onto the worksheet by pressing the [Do Substitutions now] button, or double clicking on the substitution line. You can then move the current bar to the next part of the song that you need a substitution for and repeat the process.

You can undo the substitution by pressing the [Restore] or [All] button.
Auto-Chord Substitution Dialog

You can quickly auto-generate substitutions for an entire song or portion of a song using the auto-substitution dialog (accessed from the User menu). For example, we can generate substitutions for the! Freddie.MGU song. Here is the original chord progression.

By using the auto-substitution dialog, we can generate substitutions for the whole song, and we get this result:

You can see that Band-in-a-Box chose the substitutions for about 70% of the chords in the song (that's what we told it to do in the dialog). It began by replacing the F7 chord with a Cm7 F9 progression. Some of the substitutions chosen are more advanced than that (replacing an F7 with a B13 for example)

Here are the settings in the auto-substitution dialog that produced this result:

You can see that Band-in-a-Box chose the substitutions for about 70% of the chords in the song (that's what we told it to do in the dialog). It began by replacing the F7 chord with a Cm7 F9 progression. Some of the substitutions chosen are more advanced than that (replacing an F7 with a B13 for example)

Here are the settings in the auto-substitution dialog that produced this result:

Chord Substitutions for whole song or range of song

- **Style**
  - Jazz
  - Pop
  - Jazz or Pop

- **Choose Substitutions with**
  - More chords
  - Less Chords
  - More or less Chords

- **% to Substitute**
  - 70

- **Types of subs to include**
  - Best Subs Only

- **Only choose substitution is Melody is Compatible**

- **Include Chord Subs with each beat**

- **Range**
  - Whole Song
  - Part of Song
  - Bar
  - # bars

- **Set Range for Part of Song**
  - Tip: bar -1 (negative 1) is the very beginning of the song.
If you'd like Band-in-a-Box to only generate for a certain range of bars, you should first highlight that range of bars in the Chordsheet, then launch the dialog. The Range will then be set to Part of the song and the bar # and # of bars settings will also be set. You can override these settings with manual settings, if necessary.

Using the Chord Substitution Wizard

Load in the song !Freddie.MGU. The tune begins with an F7 chord for 8 beats. Let's make that part a little more interesting by trying some substitutions for that chord.

- First, press Shift+Return with the highlight bar on bar 1. You'll hear the F7 chord played.
- Then choose Edit | Chord Settings (Option+Z), and the Chord Options dialog will be launched.

Notice the following buttons: Preview, Builder and Chord Subs: The [Preview] button allows you to hear the chord, which is similar to what we did above by pressing Shift+Return.

The [Builder...] button allows you to try different chords, and build up chords by selecting root and extension.

The [Chord Subs...] button is the one that we're interested in this time. By pressing this button you'll now see a dialog with substitutions selected for the chord progression that begins with F7 for 2 bars.

There are a number of substitutions that have been identified. For example, the first substitution replaces the two bars of F7 with a Cm7, F7 progression. The program has also looked at the melody of this song (which contains an “a” note) and commented in the Memo that this “a” melody note is not compatible with the Cm7, so doesn't advise this substitution.
Choose one of the substitutions that you would like, and press the [Do Substitutions now] button (or double click on the substitution). This will enter the substitution to the Chordsheet, and the dialog will show substitutions for that new progression.

Press [Close] if you are happy with the substitution, or [Restore] to restore (undo) the substitution. Press [All] to undo all of the substitutions that you have made.

**Chord Builder**

The Chord Builder is launched with the menu item **User | Chord Builder**, with the keystrokes **Ctrl+Shift+H** or with the Chord Builder toolbar button.

This opens the **Chord Builder** dialog with a list of chord roots and their extensions.

This feature allows you to hear and build chords up by clicking on the root, extension (and alternate root if applicable). Chords are previewed as they are built.

To enter a chord at the current bar, click on the root of the chord (in the “Root” group), the extension (Maj7 etc.), and also an alternate “slash-note” root if desired.

For example, to make the chord F9/A, you would click on the “F” root, the “9” extension, and the Slash Root of “/A.” As you click on them, you’ll hear the bass note played on the Bass part, and the extension played on the Piano track.

If you are happy with the sound of the chord, you can press the **[Enter Chord]** button. That enters to enter the chord at the bar and beat specified. If you would like the chord to be inserted automatically when you click on the note/extension names, select the “Enter chord when clicked” option.

Change the Bar/Beat settings to enter at a different bar.

The **Chord Builder** can be left open as you work entering chords into Band-in-a-Box. Remember that you can also play chords in from the MIDI keyboard by pressing **Ctrl+Enter** after you've played a chord.

**Animated Drum Kit**

This sizable window is a cool animated 3D display of a complete drum kit, with all 61 Drum sounds displayed on their instruments. Watch the various drum instruments being played, or play-along/record on any of the drum instruments by using QWERTY keys or a mouse. Very educational and lots of fun!

To launch the Drum Kit window, click the Drum button, or choose the **Windows | Drum Window** option. Then the Drums Kit window will display an animated display of a complete GM drum kit.

You can do several things with the Drums Window:

- Watch the Drum part being played on the Drums Window in real time.
- Play along with the drums in real time by mouse clicking on the Drum Instrument, or using QWERTY keys (the key names to use are listed on the Drums Window).
- Record a drum part into Band-in-a-Box. To do this, simply press RECORD in Band-in-a-Box and play along.

**Note:** If you want to record a drum part to the Melody track, you'll have to set the Melody channel to 10 using the **M | MIDI Settings…** menu item.
**Drum Display**

All the General MIDI percussion instruments are shown.

<table>
<thead>
<tr>
<th>Acoustic Bass Drum</th>
<th>Bass Drum 1</th>
<th>Side Stick</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acoustic Snare</td>
<td>Hand Clap</td>
<td>Electric Snare</td>
</tr>
<tr>
<td>Low Floor Tom</td>
<td>Closed Hi-Hat</td>
<td>High Floor Tom</td>
</tr>
<tr>
<td>Pedal Hi-Hat</td>
<td>Low Tom</td>
<td>Open Hi-Hat</td>
</tr>
<tr>
<td>Low-Mid Tom</td>
<td>Hi Mid Tom</td>
<td>Crash Cymbal 1</td>
</tr>
<tr>
<td>High Tom</td>
<td>Ride Cymbal 1</td>
<td>Chinese Cymbal</td>
</tr>
<tr>
<td>Ride Bell</td>
<td>Tambourine</td>
<td>Splash Cymbal</td>
</tr>
<tr>
<td>Cowbell</td>
<td>Crash Cymbal 2</td>
<td>Vibraslap</td>
</tr>
<tr>
<td>Ride Cymbal</td>
<td>Hi Bongo</td>
<td>Low Bongo</td>
</tr>
<tr>
<td>Mute Hi Conga</td>
<td>Open Hi Conga</td>
<td>Low Conga</td>
</tr>
<tr>
<td>High Timbale</td>
<td>Low Timbale</td>
<td>High Agogo</td>
</tr>
<tr>
<td>Low Agogo</td>
<td>Cabasa</td>
<td>Maracas</td>
</tr>
<tr>
<td>Short Whistle</td>
<td>Long Whistle</td>
<td>Short Guiro</td>
</tr>
<tr>
<td>Long Guiro</td>
<td>Claves</td>
<td>Hi Wood Block</td>
</tr>
<tr>
<td>Low Wood Block</td>
<td>Mute Cuica</td>
<td>Open Cuica</td>
</tr>
<tr>
<td>Mute Triangle</td>
<td>Open Triangle</td>
<td></td>
</tr>
</tbody>
</table>

Some percussion instruments are triggered by multiple MIDI notes. When controlled by more than one MIDI note, a percussion instrument will show different behavior in response to the different notes. For instance, the Hi-Hat responds differently to Close Hat, Pedal Hat, and Open Hat MIDI notes.

The on-screen instruments may be played by mouse-click or computer keys. When playing by mouse-click or computer keys, the **shift** key adjusts velocity between two user-specified levels.
Drums that you play show up in blue (the computer played drums are red). There is an option to display all the QWERTY names on the drums at the same time, so that you can see what keys to hit without having to mouse over the instrument. The drums can be moved off-screen without snapping back to the middle.

To display the QWERTY keys on the notes, select the option in the Drums Window Settings dialog to “Display QWERTY Chars on Drums.”

Multi-note instruments send different notes depending on where you click on the instrument. For instance, the Kick Drum can send three different notes, Ac. Bass Drum (MIDI note 35), Bass Drum 1 (MIDI note 36), and Square Kick (MIDI Note 32).

The hint line at the top of the window describes the current control under the mouse cursor. Use the hint line to learn the mouse-responsive areas of each drum instrument.

**Multi-Note Drums Instruments**

**Kick Drum** - Ac. Bass Drum, Bass Drum 1, Square Kick  
**Snare** - Acoustic Snare, Side Stick  
**Hi Hat** - Closed, Pedal, Open  
**Floor Tom** - Low, High  
**Electronic Pad** - Multi-zoned for Hi-Q, Slap, Electric Snare  
**High Conga** - Mute, Open  
**Surdo** - Mute, Open  
**Cuica** - Mute, Open  
**Metronome** - Bell, Click  
**Whistle** - Long, Short  
**Triangle** - Mute, Open  
**Guiro** - Long, Short  
**Scratch** - Push, Pull

**Computer “QWERTY” Drum Keys**

**Numeric Keypad Drum Keys**

Strike computer keys to play drums.
Drums are grouped on the computer keyboard by category. The kick, snare, and hi-hat sounds are on the lowest keyboard row. The lower-middle row contains toms and cymbals. The upper-middle row contains Latin drums, and the top row contains Latin hand percussion.

The numeric keypad keys contain the remainder of the Latin hand percussion plus the electronic tones.

**Drum Kit Main Window**

The Drums main window can be resized to tile with other windows of interest.

On 256 color displays, the image does not look its best. The window looks its best if the computer is in Thousands-of-colors (16 bit) or Millions-of-Colors (24 bit) video mode.

**Drum Transport Controls**

- **Record**: Place Band-in-a-Box in Record mode so drum instruments can be recorded.
- **Play**: Start Band-in-a-Box song playback.
- **Rewind**: Stop and return to song start.
- **Stop**: Stop Band-in-a-Box playback.
- **Size Buttons 1/1, 1/2, 1/4**: Preset the window to full size, half size, or quarter-size. If the window has been changed to a size different from these, by dragging a window border, none of the size buttons will be down.

**Settings Dialog**: Adjust program behavior.

**Drum Window Settings**

In the Drum window, press the [Settings] button (to the left of the Record button), to adjust the **Drum Window Settings**.

**Note**: If your computer video is in 256-color mode, the colors in the Drums window may sometimes appear strange. To display the drum window at its best, use Thousands-of-colors (16 bit) or millions-of-colors (24 bit) video modes.

**Velocity**: When playing drums with a mouse or computer keys, the shift key toggles between two levels of note velocity. The default velocity is 90, with a default shift key velocity of 127.

The two velocity levels can be set any way desired. For instance, if you want the shift key to send quiet notes, program the shift velocity lower than the non-shift velocity.
**Randomize:** Enables the Randomize checkbox to send random velocity levels when playing by mouse or computer keyboard.

**Range:** Control the amount of velocity randomization. Usually a small range works best, around 10% to 30%.
If velocity is set to 127, and the random range is set to 20%, notes would randomly vary between a maximum velocity of 127 and a minimum velocity of 102.

**Instrument Hints:** Customize appearance of the Hint line with Note Name, MIDI Note Number, and Computer Key.

**Display Qwerty Characters on Drums** displays the QWERTY key names that play each drum in the kit.

**Show:**
- “Show All Instruments” shows all instruments in the drum window.
- “Show Used Instruments” displays the basic trap kit, but does not display any extra instruments unless they are used in a song. The drum window is cleared each time Play or Stop is pressed.
Chapter 12: User Programmable Functions

Band-in-a-Box offers users the ability to program many of its most powerful features from scratch. Those with the interest and enthusiasm can actually create their own personalized versions of these features:
- Styles
- Harmonies
- Soloists
- Melodists
- Guitarists

Have fun!

The StyleMaker

Overview of the StyleMaker

The StyleMaker is the section of the program that allows you to create brand new styles or edit existing styles. This is done by recording patterns for each of the Drums, Bass, Piano, Guitar, and Strings parts. If you don't want an instrument in a style, you don't need to record any patterns for it.

The StyleMaker opens with the User menu commands Make A New Style (STYLEMAKER) or Edit Existing User Style.

Styles with RealTracks and RealDrums

The StyleMaker has settings to assign RealDrums, RealTracks, Volume Adjustments, Timing Offset adjustments, Long Style Name, Tempo, and Resolution. This allows you to create or edit styles to assign specific RealDrums or RealTracks to the style.

To access this dialog, enter the StyleMaker and then press the [PATCH] button to launch the Misc. Style Settings dialog.
Using RealDrums in Styles
You can assign a RealDrums style to replace the MIDI drums in an existing Band-in-a-Box style with the RealDrums Settings.

Enable “Style uses RealDrums” in order to designate a RealDrums style. If your style is in the correct directory, it should appear when you press the “RD” button. You can then select your RealDrums style, and whenever the current style is played, it will use your RealDrums style (provided that RealDrums are enabled).

Most RealDrums styles include several variations. Select “Vary ^styles with each play” to hear a different variation each time the song is played.

There are also additional volume controls here. If you have your dB setting exactly where you want it in your style file, but with this particular Band-in-a-Box style you want it a bit higher or lower, you can enter a setting here.

There are also fields for adjusting the ‘a’ or ‘b’ subsection volumes only.

You can also remove the check mark from either “Allow ‘a’ substyle RealDrums” or “Allow ‘b’ substyle RealDrums,” which means that for this style, the one with the checkmark remaining will be used for the entire song, regardless of what substyle is currently called for in the song.

There are many Band-in-a-Box styles with RealDrums. The style names begin with a minus sign.

-22JAZZ sw 8 160 Jazz Swing style

They are listed in a separate category in the StylePicker.
Using RealTracks in Styles

RealTracks can be assigned to any Band-in-a-Box instrument part in a style by using the “Assign Soloist (MIDI) or RealTracks (audio) to style” feature.

To assign RealTracks to a style select the “Instrument” part that you want to replace with a RealTrack.

![Assign Soloist (MIDI) or RealTracks (audio) to style]

Then select the RealTracks instrument that you want for this part in the style.

**Note:** This list also includes soloists, the RealTracks listing begins at #361.

![Soloist/RealTracks to use:]

Styles can have multiple RealTracks. For example, you could have RealPedalSteel and RealAcousticGuitar. And also RealDrums.

**Styles with RealTracks**

There are many existing Band-in-a-Box styles that have been made with RealTracks. The style names begin with an equals sign.

![RealStyles: [All]]

RealStyles are styles that use only RealTracks and no MIDI instruments. These style names begin with an underscore.

![RealStyles: [All]]

RealStyles and Styles with RealTracks have their own categories in the StyleMaker.

**Soloists in Styles**

Styles can also use MIDI soloists. For example, make a style with a banjo part that has the same quality as the Band-in-a-Box Banjo Soloist. Here we are assigning an Earl Scruggs Bluegrass solo to the Strings part.

![Assign Soloist (MIDI) or RealTracks (audio) to style]

![Soloist/RealTracks to use:]

**Chapter 12: User Programmable Functions**
**Volume and Timing Offsets**

The volume and the timing of the RealTracks or Soloist parts can be adjusted to match the rest of the style.

![Volume and Timing Offsets](image)

**MIDI Styles**

The simplest style consists of 1 pattern each for the instruments that you want in the style. If you like, you can use options available to you called “masks.” Masks are options that you set for a pattern to specify when you want the pattern to be played. There is a list of masks below.

**Masks Available for Patterns**

Complex styles can be made allowing patterns to be recorded that are played only at certain times. These are referred to as masks.

<table>
<thead>
<tr>
<th>Mask Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substyle masks</td>
<td>Substyle A or Substyle B</td>
</tr>
<tr>
<td>Chord duration masks</td>
<td>On chords lasting 1, 2, 4 or 8 beats</td>
</tr>
<tr>
<td>Bar masks</td>
<td>On certain bar numbers</td>
</tr>
<tr>
<td>Beat masks</td>
<td>On certain beat numbers</td>
</tr>
<tr>
<td>Chord masks</td>
<td>On certain types of chords</td>
</tr>
<tr>
<td>Roman Numeral masks</td>
<td>On certain Roman numerals (e.g., II chord)</td>
</tr>
<tr>
<td>Next interval masks</td>
<td>Only when next chord of song is certain interval (e.g., up a fourth)</td>
</tr>
</tbody>
</table>

But the StyleMaker is loaded with options and features that allow your styles to grow in complexity and number of patterns. For example, it is possible to input up to 600 patterns in a given style.

In addition, patterns can be classified by many ways allowing them to be played only at appropriate times. For example, patterns can be given varying lengths or can be assigned to certain types of chords or only to be played on even or odd number bars and many others. We believe that the StyleMaker satisfies both the need to create simple styles with repetitive patterns and the ability to create complex styles intelligently.

To create a style you will be creating Bass / Piano / Guitar / Strings patterns (in the key of C) and Drum patterns. Once made, the styles are saved to disk and are then ready to be used by the program for playing any song in the selected “User style.” Styles end up as files with a .STY extension, different from song files, which have a .SG? or an .MG? extension.

The StyleMaker has been designed to be as flexible as possible. A simple style would consist of three patterns (one each for bass, drums, and piano) but more complex styles are created by using more patterns.

The styles consist of two substyes, “a” and “b.” Typically, the “a” sub-style would be the more “laid-back” portion of the style such as a verse or, in the case of a Jazz Swing style, a two-beat part. The “b” substyle would be a chorus section (bridge) or “Swing” part in reference to a typical Jazz Swing style.

On the StyleMaker page, you’ll see rows of dots that line up with their respective instruments / substyle / length in beats / etc. These are locations for your patterns that you’ll be recording. In order to create a Style, you'll need a MIDI instrument of some sort (keyboard, MIDI guitar, drum controllers) with a MIDI Out port. Styles are made by entering Drum, Bass, and/or Piano patterns in the desired style.

**Drum patterns:**

- Are entered in step time, Tap mode, and Real Time from a typical drum programming screen (grid).
- Are always entered as 1-bar patterns (longer patterns may be chained together using BAR MASKS – described below).

The drum patterns are entered from the drum screen in 4 sections (these 4 sections appear when you click on the drum button).
Chapter 12: User Programmable Functions

A patterns  This row is for 1 bar drum patterns for the “a” substyle.
B patterns  This row is for 1 bar drum patterns for the “b” substyle.
Fills     This row is for 1 bar drum patterns for the “a” substyle.
Endings   This row is for endings. Endings are 2 bars (2 patterns of 1 bar each). If you’ve made a style and haven’t included an ending, a 2-bar “auto-ending” can be generated automatically, based on the style.

Tip: If you are making a simple style, you only need to use the top row (“a” patterns).

Bass / Piano / Guitar / Strings patterns:
- Are played in real time from a MIDI keyboard, MIDI guitar, etc. by clicking on [Rec] or typing “r” with the cursor placed on the first dot of the A or B section of the desired instrument starting with 8 Beat.
- Are played in based on a C7 chord (C E G Bb) though all 12 notes may be used.
The patterns for Bass/Piano/Guitar/Strings are classified by the length of the pattern, i.e., the number of notes that the chord lasts without a change of chord.

Click on the Piano/Guitar/Strings buttons to toggle between each instrument’s A/B recording sections. You get to the instrument screen by mouse clicking on the instrument name button.

For example, click on the Bass button and you will see similar to the following:
The important rows are indicated with an asterisk *, meaning that if you are making a simple style you'll only have to use these rows. The “a” and “b” refer to the “a” and “b” substyles found in Band-in-a-Box. The numbers 1, 2, 4, 8 refer to the length of the recorded patterns in terms of number of beats. For example, a 2 bar pattern would be 8 beats.

Explanation of the numbers on the StyleMaker screen.
The StyleMaker screen is full of patterns, mostly empty indicated by a period (.). When a pattern has been recorded, there is a number in place of the period for example (5). These numbers indicate whether a pattern has been recorded at the location. A period indicates no pattern and a number from 1 - 9 indicates that a pattern has been recorded with the actual value corresponding to the desired weight the pattern is to be given relative to other similar patterns. Patterns that you don't want to hear very often in the style are given low weights. Usually you will use weights in the range of 0 - 8 where
0 = no pattern recorded
1 – 8 = pattern recorded
9 = special weight that is really given a much higher weight internally by the program. A pattern with a weight of 9 will always be played (if not masked out by other options).

“a” and “b” refer to the 2 substyles available in the Band-in-a-Box program.

Explanation of the pattern lengths 8, 4, 2, and 1 beat.
You may ask, “Why would I need to have different pattern lengths in a style?” Whenever Band-in-a-Box encounters a chord change in a song it will begin to playback a new pattern, starting at the beginning of the pattern.
It first scans the chord to see how long that chord is going to last without a chord change. For example, let's look at these chords:

| 1 | Dm7 | 2 | G7 | C6 | 3 | FMAJ7 | 4 | (These chords are in substyle “a.”)

When Band-in-a-Box is playing back your style, it starts by looking at the Dm7 chord, and counts that it lasts four beats before the next chord change to a G7 chord. It then looks to the style that you have created and sees if you have any patterns created in the A 4 beat line — if so, you will get an appropriate pattern that you have recorded for chords lasting four beats.

**Note:** If you don't want to classify patterns according to this method (don't worry), you can just record all of your patterns on the A 8 beat line. When Band-in-a-Box sees that you haven't any 4 beat patterns it will choose an eight beat pattern and then only use the first four beats of it.

Then when Band-in-a-Box encounters the G7 chord, it sees that it lasts two notes before the next chord change. So Band-in-a-Box will look for any A 2 beat patterns. There is tremendous advantage to being able to record different length patterns. Eight beat patterns might be blank for the first four beats for example; a situation that could not apply for four beat patterns or the entire pattern would be blank!

Here is another example of chords with the durations of the chords displayed for you underneath:

| 4 bar e.g. | F | Bb | C7 | F6 | |
| chord duration | 4 | 2 | 2 | 8 |

Patterns may be entered for chord durations of 1, 2, 4, and 8 notes. The Band-in-a-Box program sorts out everything else about determining the length of the chord durations in the song and combining lengths for unusual lengths (3 = 2 + 1 etc.).

So now we know what the rows are for: they are for patterns of different lengths and different substyles (A and B). The columns across the screen are used to contain multiple variations of similar sounding patterns. The program will randomly pick between the similar patterns on playback. The number that is recorded and displayed on the screen refers to the weight assigned to that pattern. Normally if you have three similar patterns with equal weight they will be picked equally, but if you assign lower or higher weights in the range 0 - 8, you can fine tune how often patterns are played.

**Note:** Normally weights are in the range 0 - 8. A weight of 9 may also be assigned when you have a pattern that only occurs under certain conditions, but you want to ensure that whenever that condition occurs that the pattern will always be picked.

The Bass and Piano / Guitar / Strings patterns are always recorded in two bar chunks regardless of the chord duration. If a shorter chord duration is entered, the remainder of the pattern is ignored. Patterns are also entered for the A and B substyles.

Drum patterns are not of variable duration like the Bass and Piano patterns. The Drum patterns are always one bar long. Longer patterns than one bar may be chained together using bar masks (see below). When you record a new pattern (Bass / Piano or Drums), a dialog box will be displayed with several options, all set to defaults of 0. If you are making a simple style, or if you don’t understand all the options, just leave them at their default settings. When you record a pattern with all the default settings, it is called a generic pattern. Generic patterns may be picked at any time by the program.

Playback of patterns in the StyleMaker is done from the StyleMaker screen:

- **Play** button plays pattern back exactly as played.
- **Chord** button plays pattern back as Band-in-a-Box would, e.g., on a specific chord set by the user from a menu.

**Stopping Playback:**
Clicking the mouse button or pressing the <Spacebar> stops playback of the pattern.

**Erasing Patterns:**
Patterns are erased by assigning a weight of zero to the pattern. Type a 0 at the pattern.

**NOTE:** All user styles are entered in 4/4 time.

Chapter 12: User Programmable Functions
The Band-in-a-Box Program is capable of playing back in any time signature (via the Bar Settings option on the Edit Menu or Option+B) so user defined waltz styles would be made as 4/4 but played as 3/4.

**Editing Existing Styles**

The easiest way to become familiar with the StyleMaker is to start with an existing style and modify it. In this tutorial, we will describe several ways to edit an existing style. These include:

- changing patches saved with style
- adding/editing drum patterns to a style
- copying and pasting drum patterns
- recording additional bass patterns
- adding strings to a style by importing strings from another style

Let's edit the Light Rock Style, which is called ZZLITROK.STY.

1. To select a style for editing from the main screen:
   - Mouse click over top of the style on the Title window. This area on the main screen indicates the style that is currently in memory. If you want to edit the current style, (in this example it is ZZLITROK.STY) then choose either User | Edit Existing User Style or press Option + Y.
   - If you want to edit a different style then load a different style from the StylePicker, or by selecting the Load Style From Disk… option on the User menu, or press ⌘ + u, or select a style from the Style menu.

2. The StyleMaker window is then opened and you will see the display of the style prepared for editing.

The StyleMaker shows you patterns that have been recorded for Drums and Bass constantly. If you would like to see the patterns recorded for Piano, Guitar, or Strings, then select the appropriate instrument button to view them.

The currently selected instrument for Piano/Bass/Strings is indicated by the highlighted instrument button. In the diagram, you'll notice that the Piano is the current instrument. Clicking the mouse on a different instrument button will change the instruments.

The StyleMaker begins by displaying the Drums and Bass. Let's have a closer look at the Drums.

The ZZLITROK.STY Drums screen will look similar to this:

<table>
<thead>
<tr>
<th>DRUM</th>
<th>A Pattern</th>
<th>B Pattern</th>
<th>Fills</th>
<th>Endings</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5 5 5 5 2 2 8 . . . . .</td>
<td>5 5 5 3 5 4 5 8 . . . .</td>
<td>3 5 5 3 6 1 6 . . . .</td>
<td>5 5 . . . . . . . .</td>
</tr>
</tbody>
</table>

You will notice that there are 4 rows of drum patterns:

- **A Pattern** is the row to record drum patterns for the “a” substyle.
- **B pattern** is the row to record for the “b” substyle.
- **Fills** are recorded on the Fills row.
- **Endings** are recorded on the Endings row. (2 consecutive patterns of 1 bar.) If you’ve made a style, and haven’t included an ending, a 2-bar ending based on the style can be generated automatically, based on the style.

Let's have a closer look at the **A Pattern** row.

Each of the numbers represents a drum pattern that has been already recorded. There are 8 patterns that have been recorded on this line. The numbers themselves are called **weights**. The weights can be from 1 to 8 (a weight of 9 is a special case explained below). Most of the patterns have weights of 5, which is the default. Assigning a higher or lower weight will cause
that pattern to be played more or less often relative to the other patterns. The 2 patterns with a weight of 2 will be played less often than the patterns with weights of 5.

Use of a weight of 9 on one of the patterns is a special case. Patterns with a weight of 9 will always be played instead of any other patterns on the same row. These patterns usually have other options associated with them to ensure they are played under certain circumstances only. For example the pattern on this row has an option set of “Bar Mask = post fill” which means it will be the bar after a drum fill. In this case, the pattern has a Crash cymbal on beat 1. This pattern will always be played when the song is at the first bar of a new part (which is the bar after a drum fill).

You can examine the options for any pattern by selecting the pattern by mouse clicking on it, and then clicking on the [EDIT] button. Move around the screen to different patterns by either using the cursor keys or mouse clicking on the desired pattern.

Let's examine the Drum pattern by pressing the [REC] button. This opens the Drum Editor window. This screen allows you to create or Edit drum patterns in step time.

There are 16 columns, representing 1 bar of 16th notes. The numbers on this screen represent velocities from 0 to 127. Using the bottom row of the computer keyboard i.e. the XCVBNM.. / keys is the fastest way to put in commonly used velocities, or by selecting the various commonly used velocity buttons at the bottom right of the Drum Pattern Entry screen. You can also just type in the number that you want. Try typing in some new drum notes. Press the [PLAY] button to audition them.

Let's create a new drum fill.
- Move to an empty location on the “Fills” line.
- Press [REC] to open the Drum Pattern Entry screen.
- Type a drum pattern in the drum grid.
- Save the pattern by pressing [EXIT] to exit the Drum Editor.
- Accept the generic settings in the Drum Pattern Recorded dialog box.

You will see your new pattern on the Fills line as represented by a weight number.

Let's use COPY/PASTE to simplify creating a new drum pattern.
- To make another fill, move to an existing fill.
- Choose the [COPY] button to copy that drum fill to the clipboard.
- Move to an empty pattern.
- Choose the [PASTE] button to paste in the previous drum fill.
- Now press [REC] to launch the Drum Pattern Entry screen and step edit the drum fill. You will only need to change a few notes of the fill to make a variation of the one you have copied.

Save the style by pressing the [SAVE] button. Save allows you to rename the style so you don't affect the original ZZLITROK.STY.

Change the Patches that are assigned to the Style.

Each style can have patches assigned to it. For example if you want the style's Piano part to use a Rhodes piano, you can select the piano patch of 5, which is the General MIDI number for the Rhodes Electric Piano.
- Press the PATCH button.
- This displays the Misc. Style Settings dialog box.
- Select the [Set Patches...] button.
- You will then see a dialog box allowing you to type in patches you would like for the style. If you don't need a specific patch, use 0 for no change of patch number.

Let's add Strings to the Style.

There are 2 ways to do this.
1. You could move to the strings part (by clicking on the strings button) and then record the strings patterns.
- or -
2. The easiest way is to import strings from another style that already has strings. This allows you to use existing string patterns. For example, the Miami Pop style has a nice strings part.

Let's import the “Miami Pop” strings into our style.
- Choose the [LOAD] button.
- Select the ZZMIAMI.STY style from the file dialog.
- Select the [Strings] button to display the String patterns for this style.
- Select an 8-beat String pattern to copy and press the [COPY] button.
- Choose the [LOAD] button.
- Select the ZZLITROK.STY style.
- Press the OPEN button to open this style.
- Choose an empty 8-beat “b” String pattern (because that is where the String pattern was recorded in) and press the [PASTE] button.

The strings will play in the “b” substyle only, because that's how they were made in the Miami Pop style. You could now import the Guitar from the ZZCONTRY.STY for example, using the steps above. It is quite easy to quickly add instruments to styles by importing instruments from other styles.

Let's Record some new bass patterns.

Note: If you are not able to play patterns in real time (“live”), then you shouldn't record these Bass, Piano, Guitar, or Strings patterns. You cannot enter them in step time.

Recording a Bass Pattern
Move the highlighted cell to an unused Bass pattern. If you're recording a pattern lasting 8 beats, record this on the top line “A 8 beat.” This pattern will be used when the song has chords lasting 8 beats or more without a chord change.

Press the [REC] button to record the bass pattern. You will need to wait during a 2 bar lead-in. Then you record the 2 bar pattern.

Play the pattern on a C7 chord. You can use all 12 notes; just play a pattern that you would have normally played in the song if the song were on a C7 chord (C E G Bb). When you're finished recording the pattern, you'll see a dialog box listing all of the options available. Just accept all of the defaults by pressing the [OK] button.

Press the [SAVE] button to save your new style.

Press the [EXIT] button to close the StyleMaker window and exit. Make sure that you have saved the style first, otherwise edits will be lost.

Creating New Styles
Making Drum Patterns
There are 2 screens in the StyleMaker associated with making drum patterns.

1. The StyleMaker screen with drum patterns.
2. The Drum Pattern Editor, allowing step editing of patterns.

1. The StyleMaker screen with drum patterns looks like this:

```
DRUM

A Pattern 5 5 5 2 2 8 . . .
B Pattern 5 5 5 3 5 4 5 8 . .
Fills 3 5 5 3 6 1 6 . . .
Endings 5 5 . . . . . . .
```

The screen will look like this. The solid box indicates the currently selected pattern. Empty patterns are indicated by a (.), i.e., patterns that have not been recorded yet. If a pattern has been recorded there will be a number in place of the (.) indicating the weight of the pattern.

The 4 rows are for the different types of patterns, “a” substyle, “b” substyle, Fills and 2 bar Endings.
Drum Pattern Entry

**Drum Pattern Entry** screen is where the Drum patterns are made.

To enter the Drum Editor: With the highlight bar on a pattern on the drum area of the StyleMaker screen press the **REC** button to record the pattern in Step Time.

You'll now be in the **Drum Pattern Entry** screen. There are 16 rows across, indicating 4 beats with 4 divisions per beat.

### Changing Timebase of Drum Pattern

Change the time base to 12 by clicking the mouse on the [Timebase] button. This allows for drum patterns in 3/4 time. The program will ignore the 4th column of each beat. [Timebase 12] will then be displayed in the timebase button.

### Moving around the Drum Editor Screen

Move around the screen with cursor keys, or mouse click. The black flashing highlight bar indicates where you are. The different drum instruments are named along the left side and the 4 beats are displayed along the top.

### Tempo Changes

Tempo changes are done using the [TEMPO] button or press the [ ] and [ ] keys from the main Stylemaker screen.

### Entering notes onto the drum editor screen.

A typical pattern may look like this:

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Beat 1</th>
<th>Beat 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Closed Snare</strong></td>
<td>105</td>
<td>77</td>
</tr>
<tr>
<td><strong>Open Snare</strong></td>
<td>80</td>
<td>65</td>
</tr>
<tr>
<td><strong>Hand Claps</strong></td>
<td>67</td>
<td>65</td>
</tr>
<tr>
<td><strong>Timbale</strong></td>
<td>68</td>
<td>65</td>
</tr>
</tbody>
</table>

This pattern is in a time base of 12, you see 4 beats with 4 divisions per beat.

(In a Timebase =12, only the first three divisions of each beat are accessible.)

The numbers are velocities. Move around the Drum Pattern screen and type in the numbers as above. These are velocities and should range between 0 and 127. The fastest way to put the numbers onto the screen is to use the hot keys on the bottom row of the typewriter keyboard - XCVBNM, or the velocity buttons 0, 50, 60, 70, 80, 90, 100, 110, 120 and 127 at the bottom right of the Drum Pattern Entry screen.

### Using Alternate Drum Notes

What are alternate notes? Alternate notes can be entered for any note. This tells Band-in-a-Box to randomly choose a different note to the one specified. For example:
- you might want a note to be a closed high hat 80% of the time, and an open high hat 20% of the time.
- you might want a note to be high conga 60% and low conga 40% of the time, or
- high tom 30% of the time and NO note the other 70%.

This allows one drum pattern to sound like many, because it will be played different ways depending on which of the notes are picked.

### How to put in an alternate note:

From the **Drum Pattern Entry** screen, press the [EDIT] button. This displays the **Alternate Drum Notes** dialog box.

Select the Alternate Drum Note type, such as Open High Hat or Bass Drum, from the Alternate Note...
drop down menu. When you exit the box, you will see that the box has a border indicating that an alternate note is located there.

Playing the Drum Patterns
Play the drum pattern by pressing the [PLAY] button.
Stop playback by pressing the [STOP] button or the < Spacebar >.
Press the [PLAY] button again to hear the pattern again if you have made changes.
When the pattern is sounding like you want, press the [EXIT] button.

Drum Pattern Options

Relative Weight (USUAL SETTING = 5)
Relative Weight is the number that you assign to the pattern from 1 - 9. Numbers from 1-8 indicate how often you want the pattern to be played in relation to the other patterns on the same row.
A weight of 9 is a special setting that ensures that the pattern will ALWAYS be played. Patterns assigned a weight of 9 usually have other options set which instruct the pattern to only be played at certain times (bar after a drum fill for example).

Playback Bar Mask (USUAL SETTING = 0)
Playback Bar Mask determines on what bars of the song the pattern will play.
The bar numbers are counted relative to the last part marker. Bar 1 is the first bar after a part marker for example.
Bar mask setting of 0 is the default. This lets the pattern be played at any time.
Other bar mask settings:
1. pattern played at odd number bars only 1, 3, 5, 7, 9...
2. pattern played at even bars only 2, 4, 6, 8, 10...
3. pattern played on 3rd of 4 bar (3, 7, 11, 15..)
4. pattern played on 4th of 4 (4, 8, 12, 16, 20...)
5. pattern played on 5th of 8 (5, 13, 21...)
6. pattern played on 6th of 8 (6, 14, 22...)
7. pattern played on 7th of 8 (7, 15, 23...)
8. pattern played on 8th of 8 (8, 16, 24...)
9. PRE-FILL special value - refers to the bar before a fill
10. FILL refers to the bar of a fill (not applicable to drums because there is a special row for drum fills).
11. POST-FILL refers to the bar after a fill (same as the first bar after a part marker).

**Drum Fill on Substyle** (USUAL SETTING = Any)

This setting is only relevant on the Drum Fills line. It lets you specify if you want the drum fill to be used on the “a” substyle, the “b” substyle, or either. The default setting is Any.

**Late Triplets** (USUAL SETTING = usual setting = 0)

This is only relevant in drum patterns with time base =12 (triplet feel). If you want the 3rd triplet to be played late (as is usually done in slow jazz style), then set a number from 0 - 11. Default is 0 (not late at all). A typical setting for a slow triplet style is triplets late =5 (the units are 120/beat).

**Now let’s make the ending drum pattern.**

Endings are 2 bars long. In the case of the drums, this is done by 2 consecutive 1 bar patterns on the ending row. Move to the Endings row. Input a 1 bar pattern in the first column and then another 1 bar pattern in the 2nd. These 2 patterns are the ending patterns so you should make the 2nd pattern an ending drum pattern typically with a crash cymbal on beat 3 for example.

**“Auto Endings”**

If you’ve made a style, and haven’t included an ending, a 2-bar ending can be generated automatically, based on the style.

**Making Bass Patterns**

Bass patterns are recorded live from a MIDI keyboard. If you can't play in real time, or if you don't have a MIDI keyboard you'll have to import these instruments from other styles (as we will be doing with the strings).

**The Bass Screen**

If you're making a simple bass pattern you'll only need to record pattern(s) on the A 8 beat row (the top row). These patterns will be chosen for every chord, regardless of the length. But if you want the style to play different patterns when the song is encountering chords that last 1, 2, 3, or 4 notes, you should record separate patterns on these rows.

**Recording a Bass Pattern**

Move to the top row of the bass area, in column 1. Press the [REC] button. This will begin the recording of the bass pattern. You will hear a 2 bar lead-in and then you record a 2 bar bass pattern. For your bass pattern, you will play a pattern based on a C7 chord. You can use all 12 notes, but should just play the pattern as you would if the chord was a C7. You should center the bass patterns around MIDI note 48 (C3).

**Tip:** If you are uncertain what to play, edit another style that comes with the program by pressing the [LOAD] button and selecting another style - you can then play the bass patterns by pressing the [PLAY] button to see what patterns we used to make it, and imitate them in your style.

After you have recorded the bass pattern, a dialog box with options will appear. This allows you to specify the conditions that must occur for this pattern to be played back in the song. These are called masks. Usually you can just accept all the defaults, which allow the pattern to be played at any time.
### Bass Pattern Options

<table>
<thead>
<tr>
<th>Bass Pattern Recorded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative Weight</td>
</tr>
<tr>
<td>PlayBack Bar Mask</td>
</tr>
<tr>
<td>PlayBack Beat Mask</td>
</tr>
<tr>
<td>Roman Num Mask</td>
</tr>
<tr>
<td>Chord Type</td>
</tr>
<tr>
<td>Interval –Next Chord</td>
</tr>
<tr>
<td>Half Octave Range</td>
</tr>
<tr>
<td>Play Pushed – how often %</td>
</tr>
<tr>
<td># Ticks to push (120 ppq)</td>
</tr>
<tr>
<td>Ok To Use Macro Notes</td>
</tr>
</tbody>
</table>

#### Relative Weight  Usual Setting = 5
Set this number higher/lower if you want the pattern to be played more/less often than the other patterns on the same row. This number is also displayed on the main StyleMaker screen.

A setting of **9 (always)** is a special setting that instructs the pattern to always be played instead of the other patterns on the same row. These patterns always have other options set which specify the times that this pattern would be eligible to be played.

#### Playback Bar Mask  Usual Setting = 0
Playback Bar Mask determines on what bars of the song the pattern will play. The bar numbers are counted relative to the last part marker, and range from 1-8. Bar 1 is the first bar after a part marker for example. Other bar mask settings:

1. pattern played at odd number bars only 1, 3, 5, 7, 9...
2. pattern played at even bars only 2, 4, 6, 8, 10...
3. pattern played on 3rd of 4 bar (3, 7, 11, 15...)
4. pattern played on 4th of 4 (4, 8, 12, 16, 20...)
5. pattern played on 5th of 8 (5, 13, 21...)
6. pattern played on 6th of 8 (6, 14, 22...)
7. pattern played on 7th of 8 (7, 15, 23...)
8. pattern played on 8th of 8 (8, 16, 24...)

Special bar masks:

1. PRE-FILL special value - refers to the bar before a fill.
2. FILL refers to the bar of a fill (this allows you to put in “bass fills” for example).
3. POST-FILL refers to the bar after a fill (same as the first bar after a part marker).
Playback Beat Mask  Usual Setting = 0
Set the beat mask to a beat from 1-4, if you want the pattern to only be played on certain beat numbers.  1= Beat 1,
2= Beat 2, 3= Beat 3, 4= Beat 4.

Roman Numeral Mask  Usual Setting = 0
If you have a pattern that should only be played on the I chord or the IV chord (of the key), you can use these
Roman Numeral Masks.  This setting is rarely used.

Chord Type  Usual Setting = Any Chord
This setting is very useful.  This allows you to record patterns that will only work on certain types of chords.  For
example, you can record a specific riff that will only work on a minor 7th chord.  You then play the pattern on a
Cmin 7 (not a C7).  There are chord types for most types of chords.

Interval - Next Chord  Usual Setting = Any Interval
This setting allows you to restrict the pattern to be played only if the next chord is a certain interval away.  For
example, you can record a bass pattern that is walking up a fourth and then assign an Interval of Up 4th so that the
pattern would only be played if you're going up a 4th.

Half Octave Range  Usual Setting = Full Octave
This is a new setting in the StyleMaker.  Usually a pattern will be picked on any of the 12 roots.  You can select a
smaller range, either A to D, or Eb to Ab.  In this case, the pattern would only be picked if the chord in the song is in
that range.

Play Pushed - how often %  Usual Setting = 0 %
#ticks to push pattern  Usual Setting = 0
Pushed patterns are patterns that are played before the chord begins.  Jazz styles typically use pushed patterns for the
piano.  Patterns are recorded in the normal way (non -pushed) and then you assign the % of time and amount (in
ticks, 120 ticks = 1 beat) to push the pattern.  The pattern only plays pushed in the song (not in the StyleMaker).

Ok To Use Macro Notes (Bass)  Usual Setting = No
Bass Macros are special notes that you record.  When they are played back they are replaced by a function,

List of Bass Macro Notes
-  Note number 72 (C): Pop Walking Note(s).
  On playback, the note number 72 will be replaced by intelligent notes walking in a Pop/Country mode to the next chord.
  Maximum 4 walking notes per pattern.
-  Note number 76 (E): Note a semitone below Root of Next Chord.
-  Note number 77 (F): Root Of Next Chord.
-  Note number 78 (F#): Note a semitone ABOVE Root of Next Chord.
-  Note number 79 (G): Best Fifth (a Fifth above or below the Root depending on how high the root is.  Also stays on the root
  if in a slash chord (C7 /E).

Remember to get Bass Macros Working you must:
-  Hit the right note number (you may be out by an octave).
-  Check the “OK To Use Macro Notes” box.
-  Playback the pattern with the [CHORD] button.  (The [PLAY] button gives you an “as played” playback with the strange
  sounding high macro notes.)

Making Piano, Guitar, and Strings Patterns
Piano, Guitar and Strings are all considered together because they have all the same options available.  They, like
the Bass patterns, are recorded live from a MIDI keyboard.  If you can't play in real time, or if you don't have a
MIDI keyboard, you'll have to import these instruments from other styles (as we'll be doing with the Strings).
In this section we will refer to Piano patterns, but this information applies equally well to Guitar and Strings
patterns.

Moving to the Piano Pattern Screen
Move to the Piano area by mouse clicking on the [Piano] button.
If you’re making a simple piano pattern you’ll only need to record pattern(s) on the A 8 beat row (the top row). These patterns will get chosen for every chord, regardless of the length. But if you want the style to play different patterns when the song is encountering chords that last 1, 2, 3, or 4 beats, you should record separate patterns on these rows.

**Recording Piano Patterns**

Move to the top row of the piano area, in column 1. Press the [REC] button. This will begin the recording of the piano pattern. You will hear a 2 bar lead-in, and then you record a 2 bar piano pattern. For your piano pattern, you will play a pattern based on a C7 chord. You can use all 12 notes, but should just play the pattern as you would if the chord was a C7.

**Tip:** If you are uncertain what to play, press the LOAD button and edit another style that comes with the program - you can then play the piano patterns by pressing the PLAY button to see what patterns we used to make it, and imitate them in your style.

After you have recorded the piano pattern, a dialog box with options will appear. This allows you to specify the conditions that must occur for this pattern to be played back in the song. These are called masks. Usually you can just accept all the defaults, which allow the pattern to be played at any time.

<table>
<thead>
<tr>
<th>Piano Pattern Recorded</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Playback Weight</strong></td>
</tr>
<tr>
<td><strong>Playback Bar Mask</strong></td>
</tr>
<tr>
<td><strong>Playback Beat Mask</strong></td>
</tr>
<tr>
<td><strong>Roman Numerals</strong></td>
</tr>
<tr>
<td><strong>Chord Type</strong></td>
</tr>
<tr>
<td><strong>Interval – Chord</strong></td>
</tr>
<tr>
<td><strong>Half Octave Range</strong></td>
</tr>
<tr>
<td><strong>Play Pattern Pushed</strong></td>
</tr>
<tr>
<td><strong># ticks to push pattern (120 ppg)</strong></td>
</tr>
</tbody>
</table>

**Playback Weight** (Usual Setting = 5)

Set this number higher/lower if you want the pattern to be played more/less often than the other patterns on the same row. This number is also displayed on the main StyleMaker screen.

A setting of 9 (always) is a special setting that instructs the pattern to always be played instead of the other patterns on the same row. These patterns always have other options set which specify the times that this pattern would be eligible to be played.

**Playback Bar Mask** (Usual Setting = usual setting = 0)

Playback Bar Mask determines on what bars of the song the pattern will play. The bar numbers are counted relative to the last part marker, and range from 1-8. Bar 1 is the first bar after a part marker for example.

Other bar mask settings:

1. pattern played at odd number bars only 1, 3, 5, 7, 9...
2. pattern played at even bars only 2, 4, 6, 8, 10...
3. pattern played on 3rd of 4 bar (3, 7, 11, 15..)
4. pattern played on 4th of 4 (4, 8, 12, 16, 20...)
5. pattern played on 5th of 8 (5, 13, 21..)
6. pattern played on 6th of 8 (6, 14, 22...)
7. pattern played on 7th of 8 (7, 15, 23...)
8. pattern played on 8th of 8 (8, 16, 24...)

Special bar masks:
1. PRE-FILL special value - refers to the bar before a fill.
2. FILL refers to the bar of a fill (this allows you to put in “piano fills” for example.).
3. POST-FILL refers to the bar after a fill (same as the first bar after a part marker).

**Playback Beat Mask** (Usual Setting=usual setting = 0)
Set the beat mask to a beat from 1-4, if you want the pattern to only be played on certain beat numbers. 1= Beat 1, 2= Beat 2, 3= Beat 3, 4= Beat 4.

**Roman Numerals** (Usual Setting usual setting = 0 )
If you have a pattern that should only be played on the I chord or the IV chord (of the key), you can use these Roman Numeral Masks. This setting is rarely used.

**Chord Type** (Usual Setting usual setting = Any Chord)
This setting is very useful. This allows you to record patterns that will only work on certain types of chords. For example, you can record a specific riff that will only work on a minor 7 chord. You then play the pattern on a Cmin 7 (not a C7). There are chord types for most types of chords.

**Half Octave Range** (Usual Setting = Full Octave)
This is a new setting in the StyleMaker. Usually a pattern will be picked on any of the 12 roots. You can select a smaller range, either A to D, or Eb to Ab. In this case, the pattern would only be picked if the chord in the song is in that range.

**Interval - Chord** Usual Setting(usual setting = Any Interval)
This setting allows you to restrict the pattern to be played only if the next chord is a certain interval away. For example, you can record a bass pattern that is walking up a fourth and then assign an interval of Up 4th so that the pattern would only be played if you're going up a 4th.

**Play Pattern Pushed - how often % Usual** Setting(usual setting = 0 %)

# ticks to push pattern (120 ppq) Usual Setting(usual setting = 0)

Pushed patterns are patterns that are played before the chord begins. Jazz styles typically are pushed patterns for the piano. Patterns are recorded in the normal way (non -pushed) and then you assign the % of time and amount (in ticks, 120 ticks = 1 beat) to push the pattern. Pushed patterns only play pushed in the song, not in the StyleMaker.

**Use Macro Notes** Usual Setting(usual setting = No)
Piano Macros are special notes that you record. When they are played back they are replaced by a function, as listed below:

**List of Piano Macro Notes (same as Guitar/String macro notes)**

<table>
<thead>
<tr>
<th>MIDI Note number</th>
<th>Note</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>83 B</td>
<td>Pop Chord Diatonic Below</td>
<td></td>
</tr>
<tr>
<td>84 C</td>
<td>Pop Chord</td>
<td></td>
</tr>
<tr>
<td>85 C#</td>
<td>Pop Chord Diatonic Above</td>
<td></td>
</tr>
<tr>
<td>88 E</td>
<td>Jazz Chord Chromatic Below</td>
<td></td>
</tr>
<tr>
<td>89 F</td>
<td>Jazz Chord</td>
<td></td>
</tr>
<tr>
<td>90 F#</td>
<td>Jazz Chord Chromatic Above</td>
<td></td>
</tr>
</tbody>
</table>

**Remember to get Macro Notes Working you must:**
- Hit the right note number (you may be out by an octave).
- Check the “Use Macro Notes” box.
- Playback the pattern by pressing the [CHORD] button. (Pressing the [PLAY] button gives you an “as played” playback with the strange sounding high macro notes.)

**Transpose Root Pattern Usual** Setting(usual setting = No)
This is a rarely used setting. It only is relevant when voice leading is set to smooth (see below). It determines
where the center of the pattern is considered to be. If checked, the center of the pattern will be moved to the song’s key.

**Embellish Pattern** Usual Setting (usual setting = No)
If checked, the pattern will be embellished. This is useful in Jazz styles.

**Transpose Down Limit** (usual setting = Usual Setting = 6)
This setting is quite useful. It controls the range that the pattern will be played over. For example, if the transpose down range is set to = 2 the pattern (recorded in C) will be transposed a maximum of 2 semitones down, and therefore up to 10 semitones up to play all 12 possible roots of the chords.

**Type Of Voice Leading** Usual Setting (usual setting = Transpose Only)
Transpose Only = C7 chord based
Smooth voice leading
Riff based
The easiest type of voice leading is transpose only. If the notes C E G Bb were played as a C7 pattern, the Band-in-a-Box would transpose that voicing to a F7 chord as F-A-C-Eb, which is fine but not very smooth. A more pleasant setting would be smooth voice leading then the F7 would be voiced automatically as C-Eb-F-A.

**Riff based voicing** is used when you have recorded a pattern with a melodic riff in it. This setting ensures that Band-in-a-Box will not try to transform any of the notes into chord tones.

**Chord Selection Dialog Box**
This section is accessed by the [CHORD] button. This plays back a pattern on a specific chord that you choose. You can hear what patterns will sound like in a style by “trying them out” on certain songs. Macro notes recorded in a pattern will play their corresponding chords; smooth voice leading is demonstrated etc.
Just choose a chord and then press [OK].

**Note:** This does not apply to drum patterns, since drum patterns don't play any differently on different chords.

**Miscellaneous Style Settings, RealDrums, and RealTracks**
From within the StyleMaker, press the [PATCH] button. The Misc. Style Settings dialog box opens, which allows you to set some miscellaneous settings for the style. These include settings to assign RealTracks and RealDrums to a style.

**Waltz**
If you want to make a Waltz style, check the Waltz checkbox. Then the StyleMaker will record and play patterns in 3/4 time. The “8 beat row” will record “6 beat” (2 bar) patterns, the “4 beat” will record 3 beat (1-bar) patterns. The
2 -beat and 1 -beat still record 2 and 1 beat patterns. The new style is made as a waltz, and will play with a 3/4 lead-
in. There is no need to put a 3/4 time signature change in bar 1.

You will also notice that any style will play better if set to 3/4 time. This makes songs like “Take Five” sound better, which are written as 3/4 + 2/4 bars. Try out the swingSwing_number9 demo of 5/4 time signature. So, if we haven't made as Bossa Waltz for example, you can set a time signature of 3/4 in bar 1, and get a Bossa Waltz.

Pattern Pushing
Patterns can be pushed individually or on instrument basis (random % of time).

Pushes can get a Velocity Boost, so that they are played louder than other patterns. Usually a setting of 10 is a good boost to give pushes.

# ticks to push: Choose the number ticks for each push to use. 30 = 16th note, 40 ticks = triplet, 60 = half note.

In this example, the Bass part patterns will be pushed randomly 10% of the time, in the A substyle, and 20% of time in the B substyle.

Since Rests can be “Shots,” that play a chord on beat 1, the style can define what instrument to use for this, and at what velocity.

Similarly, each Push is accompanied by a drum stab, and the style can define what instrument to use and at what velocity.

Set Patches...
The Set Patch and Volume for Style dialog box allows you to assign instruments to a style including default instrument volumes. When the song is played back using the style, these patch changes will be sent to your synthesizer along with the default instrument volumes. Remember to always use General MIDI Instrument numbers, not the Patch numbers of your synth, unless you have a General MIDI synth. If you don't require a specific instrument for the style, type a 0 for no patch change. The patch changes take effect immediately in the style, so that when you are recording Bass parts for example, you will hear the bass patch that you have selected.

Thru Patch
If you set the Thru Patch to other than 0, the instrument that the user plays along with, using your style, will be the Thru patch that you set. If you're making a “heavy rock” style, you might want to set the thru patch to be Rock guitar if you expected that the user would want to always play along on Rock guitar.
Melody Patch
If set to other than 0 all melodies will be played on the specified instrument. If you're making a “Grover Washington” style for example, you might want any melodies to be automatically set to Saxophone.

Volumes
You can set a default volume for each instrument in your style. The default volume is 90. The volume range is 0 - 127.

RealDrums Settings
RealDrums are actual recordings of studio drummers, pieced together by Band-in-a-Box to create a unique “real” drum track that is played along with the MIDI tracks created by Band-in-a-Box styles.

RealDrums Settings (Audio Drums, instead of MIDI drums)
Enable “Style uses RealDrums (audio drums)” in order to designate a RealDrums style, then press the [RD] button to select your RealDrums style. Whenever the current style is played, it will use your RealDrums style provided that RealDrums are enabled in the RealDrums Settings dialog. There are also additional volume controls here.

To make your overall dB setting a bit higher or lower for this particular Band-in-a-Box style you can enter a setting here. There are also fields for adjusting the “a” or “b” subsection volumes only.

If you remove the check mark from either “Allow ‘a’ substyle RealDrums” or “Allow ‘b’ substyle RealDrums” the one with the checkmark remaining will be used for the entire song, regardless of what substyle is currently called for in the song.

Choose “Vary ^ styles with each play” to hear a different variation each time [Play] is pressed, so the song sounds fresh each time. One time you’ll hear it with brushes, the next time with sticks and ride cymbals, etc.

Long Name (32 chars)
A long style name can be stored in the style (up to 32 characters), and this will appear on screen and in the StylePicker.

Jazz Style?
This lets Band-in-a-Box know if the style you've made is a Jazz style or not. If it’s a Jazz style it will use the Jazz Snare/Bass Drum instead of the Pop Snare/Bass Drum, and also makes some other decisions based on this setting.

Tempo
This allows you to set the default tempo for the Style. This is stored with the style. You can also change this tempo by the tempo button on the StyleMaker main screen. Tempos can also be changed by the [ and ] keys. When creating a new song the tempo will be set to the default tempo for the style/
Resolution
Styles can either have Triplet (swing eighth notes) Straight (even eighth or sixteenth notes) resolution.

‘Riff’ voicing type uses chord tones
This is an option for piano, guitar, and string patterns. If selected, voicing modifies to match the chord and scale. Deselect for a simple transpose ignoring chord type.

Assign Soloist (MIDI) or RealTracks (audio) to style
Styles can contain RealTracks and RealDrums or MIDI soloists.
To assign RealTracks to a style set the “Instrument” to use, and the RealTracks #. In the example, we are using RealGuitar for the Guitar track.

Styles can have multiple RealTracks. For example, you could have RealPedalSteel and RealAcousticGuitar. And also RealDrums.

Styles can also use MIDI soloists. For example, make a style with a banjo part that has the same quality as the Band-in-a-Box Banjo Soloist. Here we are assigning an Earl Scruggs Bluegrass solo to the Strings part.

Use the dB or volume offset to match the level of the Soloist or RealTrack to the other instruments in the style. The acceptable range is a MIDI setting of –127 to 127. When applying this offset to audio (RealTracks) a value of 32 is approximately 6dB.

The Timing offset (RealTracks or MIDI) in ticks (120 per beat) setting allows you to make a song or style with a more "laid-back" feel for a certain RealTracks.

The Timebase option allows styles to use Half Time and Double Time RealTracks.

For example, you can make a Jazz Ballad style (tempo 65) that uses a Sax Soloist at tempo 140 (playing double time).
Multistyle(s)

Enter the name of a style: zzjazz, or multiple styles separated by semicolons: zzjazz;zzbossa and these will appear as MultiStyles, substyles c/d/e/f etc.

You can click on the [STY] button to choose the styles for your MultiStyle from the StylePicker window.

**Importing Patterns into a Style**

Importing a pattern into a style is a powerful feature that greatly speeds up the making of new styles. In the interests of not “re-inventing the wheel” with each new style, this allows you to import a pattern from another style.

**How to Import a Pattern into a Style**

A pattern can be copied from one style to another by copying and pasting. The Miami Pop style has a nice Strings part, in this example we’ll import the Strings from Miami Pop style into the Light Rock style, ZZLITROK.STY.

**Let's import the “Miami Pop” strings into the Light Rock style.**

- Choose the [LOAD] button.
- Select the ZZMIAMI.STY style from the file dialog.
- Select the [Strings] button to display the String patterns for this style.
- Select an 8-beat String pattern to copy and press the [COPY] button.
- Choose the [LOAD] button.
- Select the ZZLITROK.STY style.
- Press the OPEN button to open this style.
- Choose an empty 8-beat “b” String pattern (because that is where the String pattern was recorded in) and press the [PASTE] button.
- Press the [SAVE] button to save the Lite Rock style with Strings.

The strings will play in the “b” substyle only, because that's how they were made in the Miami Pop style.

You could now import the Guitar from the ZZCONTRY.STY for example, using the steps above. It is quite easy to quickly add instruments to styles by importing instruments from other styles.
Intelligent Guitar Styles

Would you like to hear some realistic, accurate MIDI guitar from Band-in-a-Box styles, with strumming, picking, and accurate fret fingering? You'll get it with Version 11! “Guitar Styles” are styles that show strummed and picked guitar parts accurately on the guitar fretboard, and they sound great. These styles also play accurate guitar voicings, in your choice of Pop, Jazz, Country, or Folk Guitar chording. There's even a “walking guitar comping” style that plays guitar that emulates the famous “Basie Big Band” Jazz style. The “Guitar Styles” play like any regular style, and when you view them on the virtual guitar fretboard you can see exactly which strings and frets are used so it is a great learning tool as well.

Information about Guitar Styles for Playback.

Guitar Styles are identified by the exclamation point (!) in the style name. This is not a requirement, but is usually present in the style name. Guitar styles require Version 11 of Band-in-a-Box. With an earlier version the guitar track will play wrong notes. For the typical user who is just using the styles for playback and isn't making their own styles there's not much that you need to know about the styles, since they play normally like other Band-in-a-Box styles.

You can see which tracks have intelligent guitar parts by looking at the title window of the Guitar fretboard, when the track is highlighted. If it is a guitar style track, it will say [Guitar voicings] after the name of the track. The usual track that has the intelligent guitar styles is of course the Guitar part. Some of the styles have more than one guitar, so the Piano and/or Strings part might also have an intelligent guitar part. In these cases, you can also view the guitar on those tracks.

The styles can be set to use different types of voicings for guitar. For example, there are Jazz, Pop and Folk (open position) voicings. Also, some of the styles allow the guitar to play advanced chords and inversions. Some of the styles play chord patterns, so the chord in the song might be F7, but the guitar plays a “walking-chord” pattern of F7, Cm7/G, Abdim, F7/A on each beat. There can be “finger-picking” styles that have a lowest note alternate between root and 5th.

Guitar parts use channels 11 to 16 for the notes, corresponding to strings 1 to 6 of the guitar. When the notes are output to MIDI, they are re-channeled to the Guitar channel, so that it only uses 1 channel. When you make a MIDI file, the notes will all be written on the single guitar channel. Some other sequencers (e.g., PowerTracks Pro for Windows) will recognize guitar parts on all 6 channels, so if you want to write the MIDI file from an intelligent guitar style, you can set Band-in-a-Box to do this from the Preferences “Write Guitar part on 6 channels” option.

As previously mentioned, you don't need to be aware of the details of how this is done; you just play the styles as usual.

Let's Examine the Intelligent Guitar Styles

Load in the song! Freddie.MGU from the “Songs” folder. This is a demo song for the style! Freddie.STY. The exclamation point (!) in the name of a style is a convention to indicate that the style is an “intelligent guitar style.” This means that the patterns on the guitar part will play with correct guitar voicings on the fretboard.

Play the !Freddie.MGU song.

Open the Guitar window and click on the [G] button to view the Guitar track on the guitar fretboard.

As the song plays, you'll see and hear the guitar played on the fretboard using correct Jazz voicings. For some chords, you'll notice that the guitar plays different voicings on each beat in a walking pattern. For example, on an F7 chord lasting 4 beats, the guitar might play “F7, Gm7, Abdim, and F7/A,” with each chord lasting one beat, just as a professional Jazz guitarist might do.

The !Freddie.MGU style uses 3 note chord voicings in order to emphasize the lower range and to enhance the percussive rhythm effect.
Since in these cases the guitarist is usually fingering the 4th note and muting it, if you want to see what the 4th note of the voicing would be you can set this option by pressing the [Settings] button in the Guitar window and checking the box for “Show muted note of guitar style comping” in the Guitar Settings dialog.

**Note:** Remember that for any style you see with an exclamation point (!) in the style name (an intelligent guitar style) you can view and hear the guitar part played on the guitar fretboard as described above.

### The Harmony Maker

The **Harmony Maker** editing module allows you to create (or edit) your own harmonies. This can be used in the program to harmonize melodies, solos, or live playing on the Thru channel.

Sophisticated options control usage of passing harmonies (diantonic, dominant approach and chromatic), drop octave voicings (e.g. drop 2), octave doubling, patch selection, and more. An unlimited number of harmonies can be created and can be saved to disk as harmonies files. Changes in harmonies can be heard “live” as a song is playing.

To get to the **Harmony Maker** you can open either the Melody [M] or Thru [T] dialog to select a harmony, and then click on the [Edit] button. Or you could go to the Harmony menu and select **Edit Current Harmonies File**.

The **Harmony Maker** screen allows you to design a harmony.

This harmony can be used in the future for the melody or the thru harmony part.

Each harmony can use up to 3 channels, Harmony Channel A, B, and C.

If your harmony only has one instrument, then you will use Channel A for all the voices. If your harmony uses Flute and Bass, then you could use Flute on Channel A, and Bass on Channel B.

Let's make the Harmony called Shearing Quintet. The Shearing Quintet was a famous Jazz quintet with a distinctive sound that consisted of:

- **Piano** playing a 4-part harmony with the melody doubled one octave below.
- **Vibes** doubling the melody.
- **Electric Guitar** doubling the melody one octave below.

<table>
<thead>
<tr>
<th>Harmony Maker</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>#</strong> 20 George Shearing Quint <strong>Title</strong> George Shearing Quint</td>
</tr>
<tr>
<td><strong>Memo</strong> 4 part piano harmony. Melody doubled by vibes and guitar (octave down). George Shearing Quintet!</td>
</tr>
<tr>
<td>Voice</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>✓ mel</td>
</tr>
<tr>
<td>✓ 2</td>
</tr>
<tr>
<td>✓ 3</td>
</tr>
<tr>
<td>✓ 4</td>
</tr>
<tr>
<td>(5)</td>
</tr>
<tr>
<td>✓ Mel2</td>
</tr>
<tr>
<td>✓ Mel3</td>
</tr>
<tr>
<td>✓ LH</td>
</tr>
<tr>
<td>✓ LowRoot</td>
</tr>
<tr>
<td>Acoustic Piano</td>
</tr>
</tbody>
</table>
Let's hear our Shearing harmony playing as we develop it. To do this, we need a song with a melody to be playing before we enter the Harmony Maker. So let's exit the Harmony Maker, and start a song with a melody playing (like Old Folks at Home.mgu). Now go back into the Harmony Maker.

**Voices**

You'll see the voices down the left side of the dialog box.

Mel is the melody.

Voice 2 is a chord tone below the melody.

Voice 3 is 2 chord tones below the melody.

Voice 4 is 3 chord tones below the melody.

Voice 5 (rarely used) is an additional chord tone, usually the 9th or 11th in the scale.

Mel2 and Mel3 are used to double the melody.

**Settings for Each Voice**

<table>
<thead>
<tr>
<th>Voice</th>
<th>Chan</th>
<th>Octave</th>
<th>Low</th>
<th>High</th>
<th>O Double</th>
<th>V.Boost</th>
</tr>
</thead>
<tbody>
<tr>
<td>mel</td>
<td>A</td>
<td>0</td>
<td>0</td>
<td>127</td>
<td>-1</td>
<td>-6</td>
</tr>
</tbody>
</table>

**Channel** is described above. A 1-instrument harmony will use Channel A only. Additional instruments can use Channel B and C.

**Note:** These channels are set to numbers in the Harmony Channels dialog box, available in the M | MIDI Settings… dialog box.

For the Shearing Quintet harmony, we will set the Piano to Channel A, the Vibes to B, and the Guitar to C.

**Octave**

This allows the harmony to “drop down” or “go up” by a number of octaves. This octave change will only happen in a certain range, as chosen in the **Low** and **High** settings.

For example, in the Shearing Quintet harmony, we want the 2nd voice of the Piano part to drop down an octave when the melody note is higher than MIDI note 68 (the Ab above middle C). So when the melody is higher than this, the harmony will become a “drop 2” voicing.

There is also an Overall Harmony Octave setting, available by pressing the [More…] button that changes the octave of the entire harmony.

**O. Double (Octave Double)**

This setting lets you double any voice. Usually you want to do this by doubling an octave below (i.e. octave =-1), but you can set the octave from -2 to +2. (The doubling will always be on the same channel, if. If you want a different instrument to double the voice, then use the Melody Doubling Voices.)

For the Shearing Quintet harmony, the only voice that needs a doubling like this is the Piano melody, so we'll set this to = -1 on mel (the melody voice).

**V. Boost (Velocity Boost)**

This allows you to increase or decrease the velocity (loudness) of each voice, to make the voice stand out more or less in the harmony. Default =0.

For the Shearing Harmony, we set the Melody to a boost of 10, and the vibes and guitar to a negative boost of (-5, and -20). This makes the piano stand out, and the vibes and guitar quieter.

**Patches**

The Patches setting at the bottom allows you to assign a patch to the harmony. If you set “No Patch change” the harmony won't change the patch. This is a useful setting for making a generic harmony that doesn't change the patch of the Melody or Thru channel for example.
For the Shearing Quintet harmony, we will set the patches as follows:
Channel A: Piano
Channel B: Vibes
Channel C: Guitar

When we have made changes to the harmony, we will hear these changes on the harmony channel.

Important note: You need to press the UPDATE button after you've made any changes for the changes to take effect.

You make Copy a Harmony to the clipboard, and then move to a new harmony and PASTE the harmony to the new location.

For example, if you want to make a harmony similar to the Shearing Quintet harmony, choose [Copy], move to a new harmony, and choose [Paste]. Then rename that harmony “Shearing - modified” and you can make changes to it (such as using different instruments).

You should never have to press these [Save] buttons since the harmony is saved automatically for you. All of the 256 harmonies are saved in a single .har file called default.har. If you have run out of harmonies, you can start a new harmonies file by pressing the [SaveAs]. For example, if you want to make a disk of add-on harmonies, you can make one and save it as MyName.HAR. Then you could share it with other Band-in-a-Box users who could load in your bank of harmonies (from the Har| Edit a Harmonies File…) without disrupting their own existing default.har file.

As stated above, each .har file has 256 harmonies, so you probably need only 1 file (default.har) for all your harmonies. But if you've made a great harmony and want to give it to your friend for example, you can export a single harmony as a.h1 file. Your friend can then import this harmony into their .har file. Or, you could upload some.h1 files that you've created to your favorite web site for other Band-in-a-Box users to enjoy by importing them into their default.har harmonies file.

The best way to develop a harmony is to hear it as it’s playing. The preferred way to do this is to have a song playing that has a melody in it. Any changes to the harmony will be heard on the melody as soon as you press the [Update] button. You can also play along as the song is playing, and hear the new harmony on the Thru channel.

If you don't want to have a song playing, and want to hear the harmony, then set the Test Chord to a certain chord. Then you can play on the MIDI keyboard (with no song playing) and hear your harmony. This allows you to examine exactly what notes Band-in-a-Box is using to make your harmony.

Additional harmony settings are accessed by pressing the [More] button, which brings up the Additional Harmony Options dialog box:
Use Close Harmony
This only applies to 2 and 3 part harmonies.
If set to =0, then it will use only close harmonies (mainly 3rds for 2 part harmonies).
If set to =1, it will use mostly 3rds, with some 6ths for 2 part harmonies.
If set to =99, it will use mostly 6ths, with some 3rds for 2 part harmonies.
If set to =100, then it will use only wide harmonies (i.e. mainly 6th for 2 part harmonies).
If set to between 2 and 98, it will vary between close and open harmonies (for 2 and 3 part harmonies).

Use Passing Chords (Melody)          Default = 100%
Band-in-a-Box will sort out when to use passing harmonies, based on factors like the duration of the note, the next
note, the chord tone, the velocity, previous notes, and other factors. You don't need to be aware of any of this. You
can visually see when the harmony is using a passing chord. The harmony display is usually blue, but when there is
a passing chord, it displays as RED.
If you don't want passing chords, set this value to = 0. We usually leave it at 100%.

Lowest Harmony Note
You can set a lowest note for the harmony to play. When the melody is low, harmonies begin to sound “muddy,” so
you can avoid the harmony being played below a certain note.

Overall Harmony Octave
This is very useful setting. It sets the overall octave of the harmony. For example, when we made the 5-part
Trumpets harmony, we wanted the harmony to always be played an octave higher than the recorded melody. This is
because the 5-part harmony is spread over 2 octaves and needs a high

Volume Adjust of Entire Harmony
You can set an overall adjust to the entire harmony, so it will be quieter.

No harmony if duration less than
If harmonies such as “Garner Piano” harmonize every note, they produce unrealistic harmonies, since a piano player
(like Garner) wouldn't harmonize notes of a short duration. You can specify a harmony to only occur for notes
longer than a certain duration. In the example of Garner, we set the threshold to 200ms, notes shorter than that will
not be harmonized.

OK to make new harmony with chord
This option is for how the program fixes the harmony when chord changes occur during a sustained note harmony.
Most harmonies have a feature that changes the pitch of the harmony voices under the Melody note when the chord
changes, if the underlying voice wouldn't be a chord tone. This sounds unrealistic for certain types of harmonies
like “Garner” or “Guitar harmonies,” since it would be unrealistic for those instruments to change the inner voicings
in this manner. If you de-select the option to “Make new harmony with new chord,” the voices that would conflict
with the new chord merely stop playing instead of changing to new notes.

Use Guitar Harmony Voicings
This harmony type uses real guitar chord voicings that display correctly on the guitar fretboard. Setting the “Use
Guitar Harmony Voicings” checkbox means that guitar chord voicings will be used, instead of any other voicings
specified in the Harmony Maker. Check out Harmony #32 (J Pass) for an example of this.

The Soloist Maker
This module allows you to define your own soloists. For example, let's say you want to create a soloist in a style
similar to John Coltrane, the great Jazz saxophonist. The Soloist Maker allows you to define the parameters
essential to a soloist's playing, such as instrument range (i.e. tenor saxophone), extra legato playing, playing more on
top of the beat than most jazz musicians, and playing straighter 8th notes than usual swing 8th notes.
In addition, you can set phrasing options, such as how long the phrase should be, and how much “space” to leave
between phrases. You can also set how “outside” the playing should be. In the case of a John Coltrane style, you
set that to the maximum! Then “turn it loose” and hear the soloist play over any song!
10 easy steps to make a Soloist:

1. Bring up the Soloist window by pressing the [Solo] Button or Shift+F4.
2. Select a blank spot in your list of soloists and press the Soloist Maker [Edit] button.
3. Insert the title of your soloist and any memo note you wish to add. (The Num field will be filled in for you.) Call this one “Bebop Saxophone.” For the memo, you can put in information like, “Basic bebop Sax solo, will work with most swing styles. Check ‘Double Time?’ if tempo is slower.”
4. Choose the type of soloist, i.e., Swing 8th notes, Even 8th notes, Swing 16th notes, etc. This should be set to Swing 8ths.
5. This style uses the default ST2 database, J_SWING.ST2. Another choice could be made from the Soloists folder by clicking on the [.ST2] button.
6. Press the [Choose] button to select the instrument the soloist should play (i.e. Tenor Saxophone). Note: You may also select an instrument from the Patch Change window, but selecting an instrument with the ‘choose’ button also fills in the note range information specific to that instrument. You'll notice that the correct range for tenor saxophone has been filled in to the Note Range settings.
7. Modify (if required) the phrase length, space length, and outside range parameters.
8. Change the Legato Boost to 10 %. This will add 10% to the duration of the notes.
9. Increase the Lateness by -5. This will play the notes more “on the beat” than other jazz soloists.
10. Increase the 8th Note spacing by -5. This will play the 8th notes in a more even feel than other Jazz soloists.

If your screen looks something like the one shown, press [OK]. Then, give Band-in-a-Box a few moments to load its knowledgebase of solo ideas and new parameters, and an additional few moments to analyze the chords. Playback will then begin automatically. Enjoy the solo!
The Melodist Maker

In addition to the Melodists supplied with the program, this module lets you define or edit your own melodists. You can choose the parameters to control the type of chords, melody and intro to be generated, as well as a number of settings controlling song form, theme continuity, endings type, anticipations, feel, style, harmony, soloist, patch changes and more.

Launching the Melodist Maker

The Melodist Maker is launched from the Melodist selection dialog. Press the Melodist Maker [Edit…] button to launch the Melodist Editor dialog.

Melodist Editor Dialog

<table>
<thead>
<tr>
<th>Melodist Editor</th>
<th>Melodist is</th>
<th>Even 15th notes</th>
<th>Unique Themes</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Num</td>
<td>18 Swing 64 bar 'ColeP'</td>
<td>Title</td>
<td>Swing 64 bar 'ColeP'</td>
<td></td>
</tr>
<tr>
<td>Memo</td>
<td>Swing 64 bar 'ColeP' *autoloads SINATRA.STY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melodist Editor</td>
<td>Melodist is</td>
<td>Even 15th notes</td>
<td>Unique Themes</td>
<td>100</td>
</tr>
<tr>
<td>Num</td>
<td>18 Swing 64 bar 'ColeP'</td>
<td>Title</td>
<td>Swing 64 bar 'ColeP'</td>
<td></td>
</tr>
<tr>
<td>Memo</td>
<td>Swing 64 bar 'ColeP' *autoloads SINATRA.STY</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This dialog has settings that allow you to create a Melodist.

The Num selection box allows you to select the Melodist that you'd like to edit.

The top area of the Melodist Maker screen allows you to set the Title of the Melodist and supply a Memo.
The ST2 area allows you to select the associated ST2 database for the Melodist. Here are some ST2 Melodist databases.

- MEL1Melody1.ST2 (Jazz Swing, 8th notes)
- MELPOP1MelodyPOP1.ST2 (Pop Ballads, 16th notes)
- MELWLZ1MelodyWLZ1.ST2 (Waltzes, 8th notes)
- MELROK1MelodyROK1.ST2 (Rock, 8th notes)

**Note:** Soloist databases also have extensions of ST2, but they are not compatible with Melodists. Melodist databases can be easily identified, as they all begin with MEL.

The **Patch change area** of the Melodist Maker screen allows you to select a **Patch** (instrument), **Harmony**, and **Change Instrument** setting (each chorus). You can also **Change Style** for the Melodist, and specify the feel for the style in the “.STY is” box.

- **Legato Boost** changes the legato (length) of the notes generated. Instruments like Saxophone have longer legato phrasing.
- **Lateness** refers to how much after the beat the notes are played. This is normally left at zero for Melodists.
- **8th note spacing** is usually left at zero. If set to a non-zero value, the 8th notes will be farther apart (units of 120ppq).
- **Increase velocity** is used to increase or decrease the volume of the Melodist.
The next section of the Melodist Maker allows you to select options that control what type of melody will be generated. Here's an explanation of these options.

**Unique Themes**
Default = 100
This is normally left at 100%. But if you want to force the Melodist to stick with the same theme throughout the song, set this to a lower value (say 80%). It shouldn't be set much lower than 80.

**Unusual Placed Phrasing**
Default = 0
The Melodist tries to make phrases that are appropriate for the position in the song. For example, the first 2 bars of the melody are appropriate for “opening phrases.” But if you want to experiment with phrases that don't follow these rules, set the Unusual Placed Phrasing to a value higher than 0% (e.g. 30%).

**Simple 1st and 2nd Endings**
Default = 80%
This setting only applies to Melodists that are using the Jazz Swing (MEL1Melody1.ST2) or Waltz (MELWLZ1MelodyWLZ1.ST2) databases. This determines the % of time that endings of the A sections (in AABA forms) will be simple endings (1 or 2 notes) instead of complete phrases. Usually AABA tunes end with simple phrases at the end of the A section, so this option is normally left at 80% or higher.

**Choose Unusual Chord Progressions**
Default = 0
If set to a value other than zero, the Melodist will generate a typical chord progressions. For example, instead of a Dm7 | G7 | Cmaj7, the Melodist might generate Dm7 | Db7 | Cmaj7 Am7.

**Force Long Phrases**
Default = 20
This determines the % of time that the Melodist will try to generate long phrases (4 bars or more). The “downside” to setting it higher than 20 will be a loss of uniqueness in the phrases generated. The setting shouldn't be set much higher than 20.
Mix Minor and Major Chord Progressions  Default = 0
Typical "major key" chord progressions have progressions like (in the key of C) Dm7 | G7 | Cmaj7, whereas in the key of Am, they would be | Bm7b5 | E7 | Am6. This setting determines how much the two types of progressions should be mixed in a single song.

Chord Substitutions Throughout the Form  Default = 0
Normally an AABA song has identical chords for each "a" section. If this setting is greater than zero, the Melodist will generate chord substitutions throughout the various "a" sections, while preserving the identical melodies!

Number of Variations to Choose From  Default = 15
As the Melodist is determining what type of phrase to generate, it will narrow the possibilities to the number of variations set in this variable. Setting a higher number results in more interesting melodies, but the chord progressions are more unusual.

Tempo Range  Default from 110 to 180 bpm
The Tempo Range setting determines the tempo range that the tune will be created with (it will be a random tempo in the range). The auto-tempo setting must be set on the Melodist Selection screen for the tempo range to work.

Transpose A2 Section  Default = 30
In songs with an AABA form, it is common for the second "a" section to be transposed. For example, the first "a" section might be in the key of Eb, and the second would be transposed up to the key of Gb. Melodists store these settings, and some Melodists are set to transpose the A2 sections. This setting determines the % chance that the song will be generated with a transpose. The transpose will be usually 2, 3, or 4 semitones. The song will only be transposed if the "A2 transpose" setting isn't set to "none" on the Melodist selection screen.

Anticipations in Phrases  Default = 20
Melodic phrases often begin a little before the beat; this is referred to as an anticipation. This setting determines what % of the phrases will be anticipated.

Since Melodists can also generate Solos, a specific Soloist can be set in this setting. If set to "0 - no Soloist," the program will intelligently pick a Soloist.

Melodists can be copied and pasted to quickly make new Melodists that are variations of each other.

You can export (save) and import (load) individual melodists to/from .M1 files. This would be useful if you wanted to send a Melodist to a friend for example.

The entire Melodist file, with 256 Melodists may be saved to a .MEL file. The usual file is DEFAULT.MEL. The DEFAULT.MEL file is auto-saved every time the OK button is pressed, so you don't need to explicitly save by the [Save As] button unless you want to save alternate .MEL files and go beyond 256 Melodists.
The Guitarist Maker

- The [Edit...] button in the Guitarist Selection window launches the Guitarist Editor, where you'll see the options for making or editing Guitarists.

- The Guitarist is selected from the “Num” field.
- You can title the Guitarist using the “Title” field.
- The Memo field allows a 100-character memo about the Guitarist.
- The Guitar Patch is selected using the Guitar Patch field.
- Frets To Move field: If set to zero, the guitar chord solo will be limited to chords that can be played within the current position. If set to 5 (for example), the chords will be limited to chords that can be played within the current position and up to 5 frets away from the current position.
- Force Open Position forces all of the guitar voicings to the open position. The exception is when the melody notes are so high that they can't be played using open position voicings. If the melody is in a high range, and
you want a “forced open position,” you should likely transpose the melody to a lower octave prior to generating the solo.

<table>
<thead>
<tr>
<th>Note</th>
<th>Threshold Time</th>
<th>Chord Voiced (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>On new chord</td>
<td>50 ticks</td>
<td>90 %</td>
</tr>
<tr>
<td>Beat 1</td>
<td>50 ticks</td>
<td>90 %</td>
</tr>
<tr>
<td>Beat 2</td>
<td>150 ticks</td>
<td>70 %</td>
</tr>
<tr>
<td>Beat 3</td>
<td>110 ticks</td>
<td>70 %</td>
</tr>
<tr>
<td>Beat 4</td>
<td>150 ticks</td>
<td>70 %</td>
</tr>
<tr>
<td>Passing Note</td>
<td>50 ticks</td>
<td>0 %</td>
</tr>
</tbody>
</table>

The settings for Note duration thresholds to get a chord refer to the length that a note must be before a chord will be generated.

Looking at the settings above (for Guitarist #2), these would be interpreted as follows:

- If a note occurs and it is the “First Note of a New Chord,” and the note is not followed by another note for at least 50 ticks (120 ticks = 1 quarter note), then a chord will get voiced 90% of the time.
- If a note occurs (not the first note of a chord), that is on “Beat 1 of a bar,” and the note is not followed by another note for at least 50 ticks (120 ticks = 1 quarter note), then a chord will get voiced 90% of the time.
- Similar interpretations for notes occurring on “Beat 2, 3, and 4.” You can see that the threshold is higher for notes on beat 2 and 4, which is how a guitar player makes chord solos.
- “Passing notes” are defined as short duration notes that aren't on the beat, and are followed by a note that is on the beat. In the example above, passing notes will never be voiced as chords, since the tick threshold is set to zero.

There is a further threshold applied to whether or not a note is voiced to a chord. These are durations in milliseconds.

<table>
<thead>
<tr>
<th>Time threshold to get a chord (ms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time to previous note</td>
</tr>
<tr>
<td>Time to the next note</td>
</tr>
</tbody>
</table>

In the settings as illustrated, if the note occurs less than 100ms after the previous note, the note will not be voiced as a chord. If the note is followed by another note within 80ms, then the note will not be voiced as a chord.

**Strumming Settings**

If the Guitar Chord were all played at the same time, it would sound as if it was “plucked.” Guitar playing is more typically a strum.

<table>
<thead>
<tr>
<th>Strumming Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed of strummed chords</td>
</tr>
<tr>
<td>Delay start time of strum</td>
</tr>
</tbody>
</table>

**Strum Speed:** If you set the Speed of the strum to, say, 80ms, then the guitar chord will be “strummed” over a period of 80ms.
Strum Delay: If the Delay start time is left at zero, the strum will end at the original time of the melody note. If you set it to 50% delay, the strum will be in its midpoint at the original start time of the Melody note, and if it's set to 100%, the strum won't start until the time of the original note. The most musical setting is about 50% delay. A delay of 0% also sounds good, and has the added advantage that it doesn't shift the actual time of the Melody note (relevant if you keep regenerating the solo on the Melody track).

The [Plucked] or [Strummed] buttons apply preset values.

Chord Types to Include
You can decide which types of chords should be included in the chord solo:

Chord Types (Best/Good/Advanced/Unusual/Barre/Open Strings).
- **Best Chords** are the most commonly played chords by pro guitarists.
- **Best Chords if nothing else** will consider best chords for inclusion if no other chords are found.
- **Good chords** are popular alternate chords.
- **Advanced chords** are chords that are difficult to play, or have advanced voicings.
- **Unusual chords** are voicings that should be avoided in most cases, but have some uses.
- **Barre chords** are chords that require the index finger to be played in a Barre position.
- **Lenny B Chds** sets the percentage of shell type Lenny Br. voicings, usually a shell of two notes on strings 4/5 or 5/6 and then a higher note on strings 1 or 2.
- **Include Open Strings** can be set to Never/Sometimes/Favor. If set to “Never,” no chords that require an open string will be played. If set to “Favor,” it will play open strings whenever possible, and “sometimes” is a “middle ground” setting.

OK to use chords with this # of Notes. You can select the # of notes for chords to be included in the chord solo. In the example above, chords with 2-6 notes will be included.
Embleshment types allow setting of the types of embellishments to do,

- “Pop” Guitarists should be set to use 9ths only. This will change C7 chords to C9 and Cm7 to Cm9.
- The “7ths/9ths” setting should be used for Jazz. This adds the embellishments of C to Cmaj7 and Cm to Cm7.
- The “7/9/11/13” embellishment should be used for “Advanced Jazz” Guitarists and add 11ths and 13ths voicings.

If you make changes to the Guitarist settings, you need to manually save them, by pressing [Save As], and then finding the Band-in-a-Box folder and saving the file as default.git.

Individual Guitarists can be copied, pasted, exported, or imported to/from disk.
CoreMIDI and Apple DLS Synth Tutorial

Selecting a MIDI Driver

Band-in-a-Box offers two MIDI Output options - Apple DLS Music Device (Built-in Mac sounds) and CoreMIDI.

The Apple DLS Music Device (Synth) does not require a Mac MIDI Interface or external synthesizer, and is the simplest way to quickly make Music with Band-in-a-Box.

Hint: The Apple DLS Music Device is an Audio Unit softsynth which has properties very similar to the QuickTime Music Synthesizer.

CoreMIDI is the OS X standard MIDI driver method. CoreMIDI facilitates communication with external MIDI devices, and it also enables inter-application “piping” of MIDI data between MIDI applications.
CoreMIDI requires some setup, but is not terribly complicated.

CoreMIDI with a MIDI Interface and External Synthesizers

If you have not done so already, follow the manufacturer’s instructions to install your MIDI interface. Installation details may vary, depending on the manufacturer and the model of your MIDI Interface.

Hint: It is helpful to occasionally check your manufacturer’s web site and download/install MIDI Interface driver updates which might become available.

Apple “Audio MIDI Setup” Application

Audio MIDI Setup is usually found in your Applications folder. It can be helpful to locate Audio MIDI Setup in the Finder, then drag its icon to the Dock, so it will be easy to launch the program (from the Dock) when necessary.
Audio MIDI Setup can also be launched from Band-in-a-Box...
Specific details of your Audio MIDI Setup screen will differ from this example, depending on your MIDI interface and your connected external MIDI devices. This is a relatively complicated example, with an eight port MIDI interface and four different synthesizers.

If your MIDI Interface has been properly installed, the picture of your MIDI Interface will automatically appear in the Audio MIDI Setup window, showing input/output “pins” for each MIDI input and output socket on your MIDI Interface.

You need to inform Audio MIDI Setup about your external devices (keyboards, synthesizers, drum machines, mixers, etc.). Click the [Add Device] button for each of your external devices, and then double-click each new device to set Manufacturer, Model, number of Send/Receive MIDI channels, and other relevant information.

After your external devices have been created and configured, the last step is to “wire them up” to the picture of your MIDI interface. For instance, in the above illustration, the KX-88 keyboard controller is connected to MIDI input/output pair #8 on the MTPII MIDI Interface. Click on an input/output “pin” on the picture of your MIDI Interface, and drag to an output/input “pin” of the picture of an external device.

After supplying this information, CoreMIDI will know what devices are “on the other side” of your MIDI interface(s).
Band-in-a-Box MIDI Port Selection for External Devices

This example shows Band-in-a-Box configured to receive/record from a MIDI keyboard on MIDI Interface Port 8. Band-in-a-Box transmits tracks on an assortment of synthesizers, connected to various MIDI Interface ports. This scheme would be useful on a large MIDI setup, if your best Drum sounds are on a Port 5 synthesizer, best Piano is on a Port 2 synthesizer, etc.

Your setup does not have to be so complex. If you want all tracks to be played on a single synthesizer (the most common situation), set the desired destination in the Bass popup menu, and then click the ‘set all ports to this’ button, to quickly set the destination for all tracks. You can get excellent results with all instruments assigned to a General MIDI compatible device, such as an Apple DLS synth module.

Apple DLS Synth and a Controller Keyboard

If you have a small MIDI controller keyboard, but you do not have any external MIDI Synthesizers, Band-in-a-Box can easily support this.

Select the port that your controller is connected to as your MIDI Input, and then select QT Music Instruments for your output ports. Band-in-a-Box will receive/record from a keyboard connected to the MIDI interface, but playback and keyboard MIDI Thru will go to the built-in Mac synth.
Inter-Application Communication with IAC or Virtual Ports

Virtual Ports can be used to “pipe” Band-in-a-Box MIDI playback into most CoreMIDI-compatible sequencers and other MIDI software. This means that when you play a song in Band-in-a-Box, the MIDI information will be sent to another application, rather than directly to a MIDI interface or Apple DLS softsynth.

One reason to do this would be to use a third party application as an Audio Unit or VST plug-in host. An example of such a program is Rax (http://www.audiofile-engineering.com/rax/).

With Band-in-a-Box, you can either use the BIAB Virtual Ports or the IAC (Inter-Application Communication) bus. These are just two different ways of accomplishing the same thing.

To use the IAC bus, you first need to enable the IAC driver in the Audio MIDI Setup window (MIDI Devices). Double-click on IAC Driver, make sure “Device is online” is checked, and add at least one port.

Hint: If Band-in-a-Box is running when you enable the IAC driver, you may need to quit and re-open the Band-in-a-Box application before it is recognized.

In Band-in-a-Box, go to the CoreMIDI Choose Ports dialog, and select IAC on all output ports.
Next, launch your third party MIDI application, and select IAC as the input port. This is often done in the program's Preferences | MIDI window.

**Hint:** It can sometimes make a difference which MIDI application you open first. For example, you may need to launch the third party application before you launch Band-in-a-Box.

**On Non-GS Synthesizers, Avoid GS Commands**

GS is a Roland-authored set of SysEx commands. GS is recognized by many (but not all) Roland synthesizers. GS is also recognized by some non-Roland synthesizers.

In a perfect world, the worst that would happen to a non-GS synthesizer is that the synthesizer would simply ignore GS messages (and therefore GS parameters like Master Volume or Reverb would not work).

However, there are many synthesizers available, especially amateur-written softsynths. It is possible that you may find occasional devices that can get confused and malfunction, if presented with GS messages.

In order to make sure you get the control response you expect, and avoid possible malfunctions on some synthesizers. Unless you know that your synthesizer understands GS messages, make sure to specify MIDI control messages.
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Band-in-a-Box Menu

About Band in a Box... gives important program information such as the version and build and the people who make it possible. There is also contact information for PG Music Inc., technical support, and the PG Music web page, www.pgmusic.com.

Preferences is a direct link to the Preferences dialog, which is also available with the [Prefs] toolbar button.

Services opens a submenu of the available services in the operating system.

Hide Band-in-a-Box will minimize the Band-in-a-Box window. Restore it by clicking the Band-in-a-Box icon on the dock.

Hide Others/Show All either shows or hides other open windows and applications.

Quit Band-in-a-Box exits the program.
File Menu

New is used to blank the Chordsheet and start a new song.

Open song… is used to open an existing song.

Open Filtered by Style lists only the songs in a folder with current style.

Open Song with Melody lists only the songs in a folder with melodies (*.mg?).

Open Favorite Songs opens the dialog listing the last 150 songs played.

Open Song by Title opens the Song List with the full title, file name, and style of each song in the folder. A “Find” function allows you to search the title list for a word or phrase to find a title quickly. For example, type in “Old folks” and the search will find the song title “Old Folks at Home,” plus any other songs with “Old folks” in the title.

Import Chords from MIDI File uses the MIDI file chord wizard to interpret chords from any MIDI file, and also read tracks to the Melody and Soloist tracks.

(re)-make Song Titles list makes the list of song titles for the current folder. It can be used to update the list when new songs are added to a folder.

Save saves an existing song to the same folder with the same file name.

Save song As… saves songs using the file dialog to name the file and choose a folder for the saved file.

Chapter 14: Reference
**Save Standard MIDI File** makes a standard midi file. You can save in Type 1 (multi-tracks) or Type 0 (single track) files. Karaoke MIDI files are also supported. See the settings in the **Preferences** dialog box to control how the Melody, Solo, and Harmony are written to a MIDI file.

**Save song with Patches...** If you would like to save certain patches with a song, then type in the number of the patch (instrument) that you would like. Leave the other instruments at zero (0) for No Patch change. Remember that - as with all other Band-in-a-Box functions - you use the General MIDI number for the instrument, regardless of the synth you are using.

**File utilities...**

<table>
<thead>
<tr>
<th>Open Next Song</th>
<th>Open Previous Song</th>
<th>Auto Rename 8 Character song filenames...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rename any Song on Disk...</td>
<td>Rename Current Song on disk...</td>
<td>Delete a Song from Disk...</td>
</tr>
<tr>
<td>Erase it! (Delete Current Song from Disk)</td>
<td>Load Previous Style</td>
<td>Load Next Style</td>
</tr>
<tr>
<td>Render Song to Audio...</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Open Next Song** and **Open Previous Song** will open the next/previous song in alphabetical order. For example, if the song loaded has a file name of “Paul,” choosing load-next-file will find the next file in alphabetical order after Paul; maybe it would be “Peter.” The hot keys for this are **Shift+F8** and **Ctrl+Shift+F8**.

**Auto Rename 8 Character song filenames** will rename all song files in a folder using the song title as the name. The **Auto Rename Song Files** dialog will open.

If you have a folder with files that are in the short filename format, you can quickly convert the filenames to long file names. Band-in-a-Box will use the title of the song as the file name, so if you have a file called oldFolk.mgu, Band-in-a-Box read the actual song title stored within the song, and rename the filename to "Old Folks at Home.MGU."

You can set options as follows:

- **Convert names in ALL CAPS to Upper /Lower Case:** If the song title found is **OLD FOLKS AT HOME**, setting this option would allow the file name to be called **Old Folks at Home**.
- **Convert names to ALL CAPS** converts a song title with upper and lower case to an upper case file name.
- **Replace Underscore with Space Char / Replace Space char with Underscore** are options to make the file names with either spaces or underscores between words.
- **Rename files even if the title is “Untitled Song.”** Since Band-in-a-Box's default song title is **Untitled Song**, setting this option would rename the files to names like **Untitled Song**. If enabling this option results in a duplicate file name, Band-in-a-Box will append the original file name (e.g., **MySong.MGU**), so the full name would be ‘**Untitled Song MySong.MGU**.’ This ensures that all file names will be unique, even if the song titles are the same.
- **Maximum # characters for filename.** Since song titles are a maximum of 65 characters, you can auto-rename song file names up to this 65 character limit.

After renaming the files, Band-in-a-Box will offer to remake the songlist.doc file. This file is used by the **SongPicker** dialog that shows you the songs with full titles and other information.
Rename any Song on Disk… or Rename Current Song on disk… allows you to rename files.
Delete a Song from Disk… deletes a song file without exiting the program.
“Erase it!” (Delete Current Song from Disk) deletes the current song.
Load Previous Style/Load Next Style This function, (analogous to the Load Next Song function) loads in the previous (or next) style in alphabetical order of the file name. To load the next style, in alphabetical order, choose the menu item File | File Utilities | Load Next Style, or use the hot key Command+Shift+F8 (Control+Command+Shift+F8 for the previous style).
Render Current Song To Audio opens the Render to Audio File(s) dialog, which automatically renders the full mix or selected tracks to either a compressed or an uncompressed audio file in mono or stereo.
Play Song generates an accompaniment and starts playback of the current song.
Replay Already Constructed Song plays an existing song arrangement from the beginning without regenerating a new arrangement.
Notation Window opens the Notation.
Page Setup… takes you to the setup dialog for your printer.
Print… opens the Print Options dialog.
Lyric Window opens a lyric entry line above the Notation Toolbar where lyrics can be typed in line by line. Use the esc key to exit from the Lyric window.
**Edit Menu**

**Edit | Undo** and **Edit | Redo** allow you to undo or redo most operations.

**Edit | Cut** functions like a delete command. It removes bars of chords from a song.

**Edit | Copy** and **Edit | Paste** are to copy chords from one part of the song to another. Copying a section of chords can be done in the same manner as copying text in a word processor.
Copy From…To… / Copy Rests / Erase From… To…
One of the best ways to copy chords is the Copy From… To… command, or pressing Option+C, which will launch the Copy Chords and/or Melody dialog.
The Copy Rests command will similarly bring up a dialog to allow copying of rests.
The Erase From… To… command launches the Erase Chords and/or Melody dialog. These dialogs allow you to specify the number of bars to copy or erase, the location to copy to, and the option to copy or erase the Chords, Melody, and/or Soloist.
Intro Bars Auto-Generate
This command will launch the Generate Chords for Intro (or Remove Intro) dialog where you can specify the characteristics of the intro you wish to generate.
Clear LeadSheet blanks the Chordsheet and restores the default song settings.
Insert Measure(s) inserts a certain # of bars into the Chordsheet.
Delete Measure(s) removes a certain # of bars from the Chordsheet.
Shrink cuts chord durations by 50% (e.g., 4beats>>2beats; 2beats>>1beat).
Expand doubles the durations of chords (e.g., 1beat>>2beats; 2beats>>4beats).
Unfold (convert to 1 BIG chorus)
Choose this command to unfold a multi-chorus song into one BIG chorus. When selected, Band-in-a-Box will display all choruses and verses of a song without loops or repeats. It is useful, for instance, when you have a song with 3 choruses and want to convert it to a single large chorus, or to customize a song with the “Edit Bar Settings” feature to change meter, tempo, patches, styles, and/or harmonies and generate a MIDI file for export.
Set Time Sig Of Scrap allows a new time signature to be selected for highlighted bars on the Chordsheet.
Transpose opens a dialog where the song can be transposed up or down by a semitone, or by any number of semitones. These operations can also be performed with keystrokes.
Blank Lyrics removes the lyrics from a song.
Slide Tracks
This allows you to move any of the Bass, Drums, Piano, Guitar, Strings, Melody or Soloist tracks ahead or behind by a certain amount. You could, for example, slide the Bass track so it plays a little ahead of the rest of the band. This has the effect of making the bass player “drive the band,” and is useful in Jazz styles to make the music sound more exciting.
Chord Settings
This launches the Chord Settings dialog box, where you can put in rests and pushes. You can launch the Preview, Chord Builder, or Chord Substitution functions from this window.
Bar Settings
This command opens the Edit Bar Settings dialog where you can change meter, tempo, patches, styles, and/or harmonies at the current bar.
Song Memo…
A song memo of up to 2000 characters may be added. When a song has a memo associated with it, a little red square is visible around the [memo] button (located to the right of the song title). Clicking on the [M] button launches the Song Memo dialog, where you can type in a short memo about the song, style, etc.
Enter Lyrics at Current Bar opens the lyric entry window for the current location in the song.
Copy Lyrics to Clipboard puts a copy of the lyrics in the clipboard.
Move Lyrics up/down Row(s)… allows previously entered lyrics to be shifted up or down in a range of +/- 24 rows.
Edit Chord “Shortcut.txt” will edit the file SHORTCUT.TXT using Teach Text. This is the chord shortcuts file.
Refresh Chord Shortcuts saves changes to the SHORTCUT.TXT file. Changes must be saved with this command or they will be lost.
Song Menu

Title/Key/Tempo/Embel...
Opens the Main Settings dialog. This dialog offers you the option to set the title, key, and chorus begin/end, etc. These settings are usually entered on the main screen.

Chorus begins at
Shows the bar number for the start of the chorus. Choose this command to set a new beginning for the chorus by clicking on the bar in the Chordsheet.

Chorus ends after
Shows the current bar setting for the end of the chorus. Use this command to set a new ending for the chorus by clicking on the bar in the Chordsheet.

Total Choruses =
Show the number of choruses for the song, click to change.

Vary Middle Style
If checked, the middle chorus(es) of the song will be played in the “b” substyle.

Overall Loop
If checked the song will play again from the beginning each time it reaches the end.
Additional Song Settings
These additional song settings are saved with the song.

Vary Style in Middle Choruses
If checked, the song will play in substyle B throughout the Middle Choruses. The Middle Choruses include all choruses except the first and last. If not checked, the middle choruses will play “a” and “b” substyles as set in the Chordsheet with part markers.
For example, in Jazz Swing, since the B substyle is Swing, all of the middle choruses will have swing bass. (The A substyle is playing half notes on the bass.)

Allow Pushes in Middle Choruses Default =
This is used if you have put pushes into a song, but don't want the pushes to play in the middle choruses. The middle choruses are usually used for soloing, so you may not want the pushes to play.

Rests

Allow Rests in First Chorus Default =
This is used if you have put rests into a song, but don't want the rests to play in the first chorus.

Allow Rests in Middle Choruses Default =
This is used if you have put rests into a song, but don't want the rests to play in the middle choruses. The middle choruses are usually used for soloing, so you may not want the rests to play.

Allow Rests in Last Chorus Default =
This is used if you have put rests into a song, but don't want the rests to play in the last chorus.

Allow Pedal Bass in Middle Choruses Default =
This determines whether Pedal Bass effect will be allowed in middle choruses.

Allow Embellishment of Chords Default =
The Jazz styles include embellishment of chords. This means that if you type a C7 chord, the piano player may play a C13 or a C7b9. This makes the arrangement sound more authentic.

Tip: If you are hearing flat 9 and flat 13 embellishments on a C7 chord that is clashing with the melody, you should rename the chord C9 or C13, which will ensure natural 9 and 13 embellishments. To disable the embellishment for a certain song, uncheck this option. There are very few situations that you wouldn't want it on, especially if you name some chords as C9 instead of C7 (in situations where the melody clashes with the embellishment as discussed above.) You would need to uncheck it for any song that you don't want it on.

Tag Settings

A tag (or coda) is a group of bars that are played in the last chorus of a song. If you check the “Tag Exists?” field, then the tag will play during the last chorus of the song. The tag begins after the bar you specify as “Tag Jump After Bar #.” The song then jumps to the “Tag Begin at Bar #” and plays until “Tag Ends After Bar #.” At the end of the tag, the song then plays a 2 bar ending as usual.

Generate 2 Bar Ending for This Song Default =
You can disable the ending for a certain song. You can disable the endings for all songs by clearing the checkmark for the “Allow Any Endings” setting in the Preferences dialog.

Use 4-Bar Ending for RealTracks adds two bars on the end of the song for the ending note on RealTracks to fade (decay).

Start the 2 bar ending early
The usual Band-in-a-Box ending is 2 bars appended to the end of the song. This option gives you an alternative to end the song on the last bar of the song. Band-in-a-Box will still play an ending on the chord that you specify, and the ending will occur as a 2 bar phrase beginning 2 bars before the end of the form. This results in more natural endings for many songs.

Note: “Auto Endings”
If you've made a style, and haven't included an ending, a 2-bar ending can be generated automatically, based on the style.

Fadeout ending # bars
You can quickly choose a fadeout ending. Just press the Fade button and Band-in-a-Box will fade out the last “X” bars of the song (you can specify how many bars). Or customize the fadeout with precise values for each bar.
Solos should have a “bluesy” feel.
Check this setting for solos with more syncopation, flatted thirds, and sevenths.

**Allow RealTracks substitution based on tempo**
Default = [ ]
When set, the program will find the best RealTracks to use at the current tempo.

**Allow RealTracks Shots, Holds, and Pushes**
Default = [ ]
When set, this song will support Shots, Holds, and Pushes for those RealTracks that have them (as shown in the “H” column of the RealTracks Picker).

**Play**
Generates a new arrangement and plays the song.

**Stop**
Stop playback with this command or the esc key.

**Hold (Pause)**
Pauses the song. Repeating this command resumes play from the exact location where the song was paused.

**Play From Bar#**
Choose a chorus and bar to play from in the current arrangement. Parts are not regenerated. Use this command during playback to jump to any bar in the song.

**Play From Current**
When the song is stopped this command starts playback again at the bar with the highlight cell.

**Go (Open and Play)**
Launches a file dialog for selection of any song in any folder. The selected song loads and plays automatically in Band-in-a-Box.

**Juke Box Play**
Opens the Juke Box Options dialog to select and play a jukebox list.

**Previous Juke Song/Next Juke Song**
Navigate back and forth in a jukebox set list.

**Wizard Playalong**
Enables the Wizard feature for play along on the computer keyboard.

**Wizard Uses ‘Smart’ Notes**
Toggle this on so the Wizard will only play notes based on the chord/key of the song. Toggle smart notes “Off” (unchecked) to have the Wizard provide you access to the chromatic scale.

**Freeze all Tracks**
Freeze all tracks so that Band-in-a-Box will not overwrite them with new arrangements.

**Un-Freeze all Tracks**
Un-freeze all frozen tracks.

**Freeze a single track**
Freeze any track so that it will not be overwritten by Band-in-a-Box. You can use this menu command repeatedly to freeze individual tracks in a song.

**Generate (even if tracks are frozen)**
Force generation of a song that is frozen.
Use this list for a quick pick from the list of 24 original Band-in-a-Box styles.

You either can pick a musical style before or after you have entered the chords to a song. Once you load a style, the song will be played back using your chosen style. All style files have a .STY extension.

Besides these built-in styles, there are many more styles available for use with the Band-in-a-Box. Here are other ways to access styles.

Pressing the [Style] button will bring up the StylePicker window with information on all the styles found in your Band-in-a-Box folder.

The [F] button brings up the Recently Played/Favorites dialog where you can choose from the styles that you use most often or from your list of favorites.
User Menu

Load Style From Disk…
Go to the file dialog and open a style from the Styles folder.

Load Favorite Styles…
Opens the Favorites/Recently Played dialog.

Save Style As…
Save a new style or and edited style, or rename an existing style.

Make A New Style (STYLE MAKER)
Launches the StyleMaker with a blank new style.

Edit Existing User Style
Launches the StyleMaker with the current style selection loaded. This allows you to edit an existing style (*.Style) from disk. The resulting style can then be saved with the same name or a different name.

Current Style:
This shows the file name of the current style in use.

Style Information…
Shows a summary of information about the current style.
OK to Load Styles w/ songs
Normally this is checked so that songs load with the associated style. But let’s say we’ve discovered a new style, and want to try it out on many different songs. In that case, we would ensure that this item is NOT checked. Then when a song is loaded, it will play in the new style we are trying out.

Mute Melody during middle choruses
This gives the Soloist(s) a chance to play on a given song during the middle choruses. Toggle this option “On” if you would like the melody to be muted during these choruses.

Kill Melody in Middle choruses
This command will permanently erase the middle choruses of the Melody.

Force song to # choruses
Toggle this option “On” if you would like a given song to have a preferred number of choruses.

Auto-Generate Song Title
Band-in-a-Box will generate an infinite variety of titles for your songs.

‘Jazz Up’ the Chords
This will “Jazz Up” the chords by changing chords like C and Cmaj to 7th and 6th chords. Song embellishment will be turned on for the song. Select the type of 7ths from the list box then click on the [OK – Jazz UP] button.

‘Jazz Down’ the Chords
This will “Jazz Down” the chords by changing chords with 7ths (e.g. C7) to triads (e.g. C) and 9ths and 13ths to 7th chords. Song embellishment is turned off. Press [OK – Jazz Down] to proceed.

Chord Substitution Dialog (choose your own)…
This allows you to see a list of possible chord substitutions for the current chord progression.

Auto-Generate Chord Substitutions…
This will automatically pick chord substitutions for all or part of the song.

Chord Builder…
Allows you to build up chords using mouse clicks. You can enter chords “by ear” without having to know the actual chord names or any music theory. This feature also illustrates the differences between various chord types.

Play Current Chord
Click on any chord and use this command or press Shift+Return to instantly hear how it sounds.
Melody Menu

Import Melody from MIDI File... allows you to import MIDI data from a file (*.MID) into the Melody track.
Import Melody from Clipboard... allows you to import MIDI data that has been pasted into the clipboard (e.g., from a sequencer).
Record Melody... launches the Record Tracks dialog to record a MIDI melody.
Record Melody From Bar #... lets you click on any bar to start recording there.
Step edit Notes... allows you to enter/edit a melody in step time using an event list.
Quantize Melody…

The Quantize Melody… and Quantize Soloist… menu commands open the Quantize dialog, where all or part of the Melody and Soloist tracks can be quantized. The dialog and settings are identical for both tracks.

Resolution
Choose the division you would like the track quantized to. Choosing 16 will quantize to 16th notes.

Starting at Bar# and Chorus #
Quantization will begin at the place you select and applied for the number of bars.

#Bars to quantize
Leave at 999 to quantize the entire track, or specify 1 or more bars.

Quantize durations %
Choose 100% if you want the notes quantized exactly to the division. Otherwise, the notes will be moved the % toward the target quantization.

Quantize Start Times. By default, this option is set to “Yes.” If you don't want the beginnings of the notes quantized, set it to “No.”

Quantize Durations. This quantizes the END of the notes. By default, this is set to “Off.”

Humanize w/ straight feel and Humanize w/ swing feel
Band-in-a-Box uses intelligent humanization routines, which can humanize a melody from one, feel to another, from one tempo to another, and vary the amount of swing in 8th notes (but not randomly). The results are very musical with natural sounding MIDI melodies.

Humanize Melody…
Opens the Quantize to New Tempo or Feel dialog. The humanize effect is broken down into 5 main categories: Tempo, Lateness, 8th Note Spacing, Legato, and Feel.

Transpose Melody…
Transpose the melody track without affecting the other tracks in the song.

Copy 1st chorus to all song
This stretches the melody track out over the entire song (all choruses).

Kill entire melody
Erases the melody track and any data that was contained therein.

Kill Melody Choruses
Eliminates the Melody from the First Chorus, Middle Choruses, or Last Chorus as selected from a list box.
Adjust Level of Melody
Allows you to increase or decrease the volume (velocity) of the Melody track without affecting the other tracks.

TimeShift Melody (ticks)...
Allows you to move the Melody forwards or backwards in small increments relative to the rest of the song tracks. (Measured in ticks or parts per quarter, PPQ.)

Insert Beats In Melody
Allows you to insert a blank beat or beats into the song relative to the current time signature.

Delete Beats in Melody
Allows you to delete a beat or beats from the song relative to the current time signature.

Copy to Soloist Track
Copies the entire contents of the Melody track to the Soloist Track. Useful for a temporary holding area for your Melody or bouncing tracks.

Move to Soloist Track
Copies the entire contents of the Melody track and erases the original data from the Melody track, preparing it for a new track or data.

Swap Melody and Soloist Track
This performs a “double copy/move” so that the data that was in the Melody track is transferred to the Soloist track and visa versa. This is also known as track bouncing.

Melodist – Generate Chords and Mel launches the Melodist feature.

Melody Maker
These sub-menu items allow you to edit Melodist files using the Melody Maker.

Track Type
Normally you'd leave the track type set to Single. But you can set it to:
- Guitar – Channels 11 to 16 will display on the guitar as strings 11 to 16, TAB will show, the notation will be up an octave, and the MIDI file will contain the channels preserved.
- Multi – All channels are preserved and output on the channels. This would be useful for importing an entire MIDI file, and playing it from the Melody channel (using a silent style).
- Piano – In this mode, channels 8 and 9 are treated as the left and right hand of a piano part.

Note: When saving a MIDI file and the track type is Guitar, any notes on the guitar channels (11 to 16) are preserved, so that any fret positions are preserved. (Channels 11 to 16 correspond to strings 1 to 6, so that a G5 note on Channel 11 would be shown on the high E string at the third fret.)

Embellish Melody during playback
This toggles the Melody Embellisher feature on or off.

Embellish Melody Dialog...
The Melody Embellisher dialog opens, allowing you to customize the settings of the Embellisher, choose an embellisher type from presets, and make a particular Embellishment permanent.
Convert Harmony to Melody Track
Converts a single line Melody track to include the current harmony selection.

Remove Harmony (or guitar solo) from Melody Track
Removes a harmony from a track, providing that the harmony was put there by Band-in-a-Box in the first place using the Convert Harmony to Melody Track command.

Generate Guitar Chord Solo…
Opens the Select Guitarist dialog for generating a guitar chord solo.

Rechannel to Guitar Display…
This takes a melody, and converts it to Guitar Channels 11 to 16. When it encounters a chord, it will determine the fret position that it's most possible to play that chord with. Otherwise, if it's a single note, it will play it at the current position at the guitar neck. If you want to convert an existing melody to a customized Guitar part, this command is a good starting point, and you can edit the track further to achieve a better result.

Utilities
A Utilities sub-menu has utility functions to eliminate note overlap and transpose the Melody.
**Eliminate Note Overlap – Preserve Double Stops / Eliminate Note Overlap – Remove Double Stops** eliminates note overlap while double stops are either preserved or eliminated.

**Transpose One Octave DOWN / Transpose One Octave UP** transposes the Melody part one octave in either direction. This is often useful if the Melody instrument has been changed. Transposing can be done while the song plays.

**Transpose Waltz Melody & Soloist to 4/4**

If you have a song with a 3/4 time signature, you can instantly hear it as a 4/4 feel.

To use this feature, load in any song in 3/4 time. Then load in a 4/4 style. If there’s a Melody (or Soloist) present, you’ll be asked if it’s OK to change the Melody from 3/4 to 4/4. If you click YES to that, the transformation will occur and you can listen to the Melody in 4/4 time.

If you click NO to the offer to transform the Melody, you can still convert it later by choosing *Melody* | *Edit* | *Utilities* | *Transform 3/4 to 4/4*. Note that if you choose the manual command, the Melody prior to transformation should have 6 beats before bar 1 beat 1 of the Melody begins (as it normally would in a 3/4 style).

**Transpose 4/4 Melody & Soloist to Waltz**

You can automatically transform any 4/4 song/melody to a Waltz 3/4 feel. To use this feature, load in any song in 4/4 time. Then load in a Waltz style. If there’s a Melody (or Soloist) present, you’ll be asked if it’s OK to change the Melody from 4/4 to 3/4. If you click YES to that, the transformation will occur and you can listen to the Melody in 3/4 time.

If you click NO to the offer to transform the Melody, you can still convert it later by choosing *Melody* | *Edit* | *Utilities* | *Transform 4/4 to 3/4*. Note that if you choose the manual command, the Melody prior to transformation should have 8 beats before bar 1 beat 1 of the Melody begins (as it normally would in a 4/4 style).
Soloist Menu

**Generate and Play a Solo...** opens the Select Soloist dialog where a preset Soloist style can be selected or your own Soloist can be defined.

**Start a Soloists File...** allows you to make and edit Soloist styles saved under the filename of your choice. See Soloist Edit dialog for additional details on importing/exporting/saving Soloists.

**Edit a Soloists File...** opens a file dialog where you can select any Soloist file (*.Soloist) to edit. If you have not created any of your own Soloist files or if you want to edit the one you are using, use the Edit Current Soloist File command.

Band-in-a-Box comes with over 100 Soloists built-in. If you want to make your own or modify an existing Soloist, use the Soloist Maker (edit) module. The Soloist Maker allows you to define the parameters essential to a soloist's playing, such as instrument range (i.e. tenor saxophone), extra legato playing, playing more on top of the beat than most jazz musicians, and playing straighter 8th notes than usual swing 8th notes.

In addition, you can set phrasing options, such as how long the phrase should be, and how much “space” to leave between phrases. You can also set how “outside” the playing should be.

**Edit Current Soloists file...** opens the Select Soloist dialog with the currently installed Soloists file.

**Refresh Soloist** allows the Soloist full access to all solo ideas contained in its database. Use to refresh after several Soloists have been made.

**OK to Load Soloists w/ song**
Enable this option if you want Soloists to be automatically loaded with a song that was saved with Soloist information.

**Allow Soloist Harmony (on THRU)**
Enable this option to permit the Soloist to utilize the Harmony features. This will allow the Soloist to make a harmonized solo with the harmony of your choice. See the Select Soloist dialog for additional details.

**Edit Soloist Track**
This menu command opens a sub-menu of editing options.

- **Import Soloist from MIDI File** allows you to import MIDI data from a file (*.MID) into the Soloist track.
- **Import Soloist from Clipboard** allows you to import MIDI data that has been pasted into the clipboard (e.g., from a sequencer such as PowerTracks).
- **Record Soloist ...** records a MIDI part to the Soloist track instead of recording to the Melody track.
- **Record Soloist From Bar # ...** records at the current location of the highlight cell. When you click to select the bar to begin recording a prompt will ask you to select which chorus to record. At the end of recording the regular Band-in-a-Box confirmation dialogs will open.
- **Step edit Notes...** allows you to enter/edit a solo in step time from an event list.
Quantize Soloist opens the Quantize dialog. The Humanize feature is an advanced version of this function.

Resolution per bar
Choose the division you would like the track quantized to. Choosing 16 will quantize to 16th notes.

**Starting at Bar# and Chorus #**
Quantization will begin at the place you select and applied for the number of bars.

**#Bars to quantize**
Leave at 999 to quantize the entire track, or specify 1 or more bars.

**Quantize durations %**
Choose 100% if you want the notes quantized exactly to the division. Otherwise, the notes will be moved the % toward the target quantization.

**Quantize Start Times.** By default, this option is set to “Yes.” If you don't want the beginnings of the notes quantized, set it to “No.”

**Quantize Durations.** This quantizes the END of the notes. By default, this is set to “Off.”

**Humanize w/ straight feel and Humanize w/ swing feel**
Band-in-a-Box uses intelligent humanization routines, which can humanize a Soloist from one feel to another, from one tempo to another, and vary the amount of swing in 8th notes (but not randomly). The results are very musical, with natural sounding MIDI solos.

**Humanize Soloist …** opens the Soloist: Quantize to New Tempo or Feel dialog. The humanize effect is broken down into 5 main categories: Tempo, Lateness, 8th Note Spacing, Legato, and Feel.

**Transpose Soloist …** allows you to transpose the Soloist track without affecting the other tracks in the song.

**Copy 1st chorus to all song** stretches the Soloist track out over the entire song (i.e. first, last, and middle choruses).

**Kill entire Soloist** erases the soloist track and any data that was contained therein.

**Kill Soloist Choruses** eliminates the Soloist from the First Chorus, Middle Choruses, or Last Chorus as selected from a list box.

**Adjust Level of Soloist …** allows you to increase or decrease the volume (velocity) of the Soloist track without affecting the other tracks.

**TimeShift Soloist Part (ticks) …** allows you to move the Soloist forward or backwards in small increments relative to the rest of the song tracks. (Measured in ticks or parts per quarter, PPQ.)

**Insert Beats in Soloist** allows you to insert a blank beat or beats into the song relative to the current time signature.

**Delete Beats from Soloist** allows you to delete a beat or beats from the song relative to the current time signature.

**Copy to Melody Track** copies the entire contents of the Soloist track to the Melody Track. This is useful for a temporary holding area for your soloist or for bouncing tracks.

**Move to Melody Track** copies the entire contents of the Soloist track and erases the original data from the Soloist track, preparing it for a new track or data.

**Swap Melody and Soloist Track** performs a “double copy/move” so that the data that was in the Soloist track is transferred to the Melody track and vice versa. This is also known as track bouncing.

**Convert Harmony to Soloist Track…** converts a single line Soloist track to include the current harmony selection.

**Remove Harmony (or Guit solo) from Soloist Track** removes a harmony from a track, providing that the harmony was put there by Band-in-a-Box in the first place using the Convert Harmony to Soloist Track command.

**Generate Guitar Chord Solo** opens the Guitar feature dialog for generating a guitar chord solo.

**Rechannel to Guitar Display** converts channels on a track to channels 11 to 16. Channels 11 to 16 are used by Band-in-a-Box to indicate strings 1 to 6 of a guitar. It uses the current position marker on the guitar for this command.

**Utilities**
There is a Utilities sub-menu that has utility functions to eliminate note overlap and transpose the Solo.
Eliminate Note Overlap – Preserve Double Stops / Eliminate Note Overlap – Remove Double Stops opens a Choose Range dialog to select the range of bars where note overlap will be eliminated while double stops are either preserved or eliminated.

Transpose One Octave DOWN / Transpose One Octave UP transposes the Soloist part one octave in either direction. This is often useful if the Soloist instrument has been changed. Transposing can be done while the song plays.

**Track Type**

Normally you'd leave the track type set to Single, but you can set it to:

- Single Channel
- Multi (16) Channel – All channels are preserved and output on the channels. This would be useful for importing an entire MIDI file, and playing it from the Melody channel (using a silent style).
- Guitar – Channels 11 to 16 will display on the guitar as strings 11 to 16, TAB will show, the notation will be up an octave, and the MIDI file will contain the channels preserved.
- Piano – In this mode, channels 8 and 9 are treated as the left and right hand of a piano part.
## Harmony Menu

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Melody Harmony…</strong></td>
<td>Shows the current Melody harmony selection. Click to open the Select Melody Harmony dialog.</td>
</tr>
<tr>
<td><strong>Thru Harmony…</strong></td>
<td>Shows the current Thru harmony selection. Click to open the Select Thru Harmony dialog.</td>
</tr>
<tr>
<td><strong>Favorite Melody Harmonies…</strong></td>
<td>This option brings up your favorite 50 Harmony styles (based on recent usage) and allows you to choose one to use on the Melody track.</td>
</tr>
<tr>
<td><strong>Favorite Thru Harmonies…</strong></td>
<td>This option brings up your favorite 50 Harmony styles (based on recent usage) and allows you to choose one to use on the Thru track.</td>
</tr>
<tr>
<td><strong>Start a New Harmonies File…</strong></td>
<td>Allows you to make and edit Harmony styles saved under the filename of your choice.</td>
</tr>
<tr>
<td><strong>Edit a Harmonies File…</strong></td>
<td>Allows you to edit a Harmony file that is in your \bb directory.</td>
</tr>
<tr>
<td><strong>Edit Current Harmonies File…</strong></td>
<td>Allows you to edit the Harmony file that is currently loaded on your system.</td>
</tr>
<tr>
<td><strong>OK to Load Harm. w/ songs</strong></td>
<td>Toggle this option “On” if you want to load any harmony settings that were saved/embedded in a given song.</td>
</tr>
<tr>
<td><strong>Save Harmony with this song</strong></td>
<td></td>
</tr>
</tbody>
</table>
Toggle this option “On” to allow Band-in-a-Box to embed the **Save Patches and Harmonies W/Song** dialog where you can choose to save the Melody and/or Thru harmony settings for the currently open song so that they may be recalled automatically later.

**Change Harmony with new chord**
Toggle this option “On” to allow the program to vary the harmony characteristics (i.e. inversions) each time a new chord is encountered in the song.

**Allow Melody Harmony**
Toggle this option “On” to allow the Melody MIDI channels to utilize the harmony features.

**Allow Thru Harmony**
Toggle this option “On” to allow the Thru MIDI channels to utilize the harmony features.

**Allow Soloist Harmony (on THRU)**
Toggle this option “On” to allow the Thru MIDI channels to utilize the harmony features for the Soloist track.

**Convert Harmony to Melody Track…**
This converts a single line Melody track to include the current harmony selection.

**Convert Harmony to Soloist Track…**
This converts a single line Soloist track to include the current harmony selection (On the Thru harmony).

**Use Passing harmonies for THRU**
When you play along on a MIDI keyboard (or the wizard), and use a Thru harmony, you can use passing harmonies. For example, on a C7 chord, with an Ab note, the harmony might be a B diminished chord, which is a passing harmony.

**MIDI Menu**

The **MIDI Settings** dialog box allows you to setup settings for each part (Bass/Drums/Piano etc.). You can also set the Harmony channels by pressing the [Harmony] button inside this dialog box.
**Select MIDI Driver or Apple DLS Synth…**

Opens the **MIDI Drivers** dialog where you can choose from the installed drivers.

When CoreMIDI has been selected as the MIDI driver the selections in the **MIDI** menu changes to provide access to CoreMIDI features.
**CoreMIDI Audio MIDI Setup** launches the Apple **Audio MIDI Setup** dialog.

**CoreMIDI (choose ports)** opens the Select Ports/Instruments dialog.

**Select MIDI Driver or Apple DLS Synth** returns to the MIDI Drivers dialog.

**MacOS X CoreMIDI**

The MIDI | CoreMIDI Audio MIDI Setup menu item opens the Apple Audio MIDI Setup dialog, which controls the system settings for audio and MIDI.

There are two separate windows for Audio Devices and MIDI Devices, selected by clicking on the one you want in the bar at the top of the dialog.

Each window has its own Apple Help topic, which opens by clicking on the [?] button.
CoreMIDI is the OS X standard MIDI driver method. CoreMIDI facilitates communication with external MIDI devices, and it also enables inter-application “piping” of MIDI data between MIDI applications.

This opens the Select Ports/Instruments dialog where MIDI ports are configured.

When Mac OS X CoreMIDI has been selected in the MIDI Drivers dialog (MIDI | Select MIDI Driver or Apple DLS Synth) the Select Ports/Instruments dialog opens for your assignments.

CoreMIDI is the OS X standard MIDI driver method. CoreMIDI facilitates communication with external MIDI devices, and it also enables inter-application “piping” of MIDI data between MIDI applications.

This opens the Select Ports/Instruments dialog where MIDI ports are configured.

When Mac OS X CoreMIDI has been selected in the MIDI Drivers dialog (MIDI | Select MIDI Driver or Apple DLS Synth) the Select Ports/Instruments dialog opens for your assignments.

Make General MIDI Patch Map…

Band-in-a-Box makes its patch (instrument) selections from the standardized General MIDI patch list, which is identical to the basic set of Roland GS Patch numbers. If you are using a non-GM (General MIDI) device you will need to remap the patch numbers for the GS instrument list by selecting the MIDI | Make General MIDI Patch Map command.

This opens the GS Patch Numbers dialog, where you can make a customized General MIDI patch map for your non-GM instrument.
Type in the patch number that your synth uses for each instrument listed. For example, suppose that your sound source has Acoustic Piano at patch location 41. In the GS Patch Numbers dialog, select the box beside Acoustic Piano and type 41. Do the same for all of the instruments in the General MIDI patch list. If your synth doesn't have an exact match, use a close sounding patch that it does have.

(GS Patch Numbers)
Once you have made a patch map in this way, whenever Band-in-a-Box encounters Acoustic Piano (which is General MIDI instrument #1), it will look up this Patch Map Location and then send out Patch 41 to your synth/sound module.

Furthermore, you will never have to refer to instruments in Band-in-a-Box by your synth's number. Instead, you'll use the General MIDI instrument numbering (e.g., Acoustic Piano = 1). So if you are Saving a Song with Patches or Assigning favorite instruments or combos you will still type #1 to tell Band-in-a-Box that the patch is Acoustic Piano.

Set Favorite Patches/Combos...
For each of the 8 parts (Bass, Piano, Drums, Guitar, Strings, Melody, Soloist, and Thru) you can assign up to 10 “favorite” instruments. Once assigned, these instruments can be quickly and easily set.

Use General MIDI instrument numbers. If you use a custom patch map it will handle the conversion to your synth's non-GM patch numbers, always enter GM patch numbers for the favorite instruments.

A Favorite Combo is a group of patch changes (1 for each part) that are sent out as a “batch” when you send one of the combos.

<table>
<thead>
<tr>
<th>Favorite Instruments</th>
<th>Favorite Combos</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bass 53 34 35 36 37 38 39 40 59 68</td>
<td>33 34 35 36 38 39 40 41</td>
</tr>
<tr>
<td>Piano 1 5 8 12 18 19 25 27 30</td>
<td>61 1 5 1 5 5 1 5 1 19</td>
</tr>
<tr>
<td>Drums 1 9 17 25 26 33 41 49 57 65</td>
<td>33 33 33 33 33 33 26 26 33 33</td>
</tr>
<tr>
<td>Soloist 1 5 12 27 57 58 60 67 72</td>
<td>74 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>String 49 50 51 52 53 54 55 56 69</td>
<td>111 49 49 49 49 49 49 49 49 49</td>
</tr>
<tr>
<td>Melody 1 5 25 27 49 63 60 67 74</td>
<td>91 1 25 25 57 58 66 66 67 67 83</td>
</tr>
<tr>
<td>Thru 1 5 25 27 49 63 60 67 74</td>
<td>91 0 0 0 0 0 0 0 0 0 0</td>
</tr>
</tbody>
</table>

Edit Drum Kit (Note Values)...
If you have been unable to find a preset drum map that matches your synth's drum notes, then you may need to type in the drum notes that your sound source uses. This is done in the Assign Drum Map dialog.
If you already know the MIDI note numbers assigned to the MIDI drum kit you are using (check the manual for your synth or drum machine) just type them into the drum map. Another way to enter them is from your MIDI keyboard.

To do this, you need to hook your MIDI controller up to play the drum sounds from the synth or drum machine. Play up and down the keyboard to hear all the drum sounds.

Type the MIDI note numbers for the various instruments as you find them on your drum machine or keyboard.

**Save/Load MIDI Setup/Drum Kit…**
Allows you to save different custom MIDI setups or load in preset or custom setups.

**Send Sys-Ex File…** is a command that sends SysEx information to your MIDI device.

**Style Aliases**

Let's say you have a new style for jazz called “Dizzy.” You can create an alias so that when Band-in-a-Box looks for a Jazz Swing style, it will load in “Dizzy” instead, so you don't have to make changes to all your songs. And when you have found a new favorite style, just change the alias. You can also load or save sets of “Alias” files and share them with others.

To make an alias, click on the original style then select the style you would like to load (substitute) in its place. If you want to type in a style name that you don't have, use the Custom button. When you have successfully made an alias, you will notice that there will be a small arrow in the Styles box on the main screen indicating that you have an alias loaded.
Choose Patch from Higher Bank…
This will display a list of higher bank patches as found in *.PAT text files. Choose a .PAT file from the Synth Kits folder.

Insert Current MIDI Chord
Enters the last MIDI chord played on the MIDI controller into the current location in the song.

Output chords to external device…
This is useful with an external arranger that can read chords in real time. Band-in-a-Box will output chords in root position on the selected channel during playback.

Thru Transpose Settings…
Transpose the Thru part, which is the live playing on the MIDI keyboard, so you can play any song in any key.

Filter for Recording…
Used to filter the MIDI information that is recorded to the Melody track.

Return to Factory Settings…
This will return program options to factory defaults, excluding MIDI Drivers and patch map set in the MIDI Settings dialog.

What add-ons do I have?
One of the greatest strengths of Band-in-a-Box is the ability to add-on and enhance the program through add-on RealTracks, RealDrums, Styles, Soloist, and Melodist disks. The list off available add-ons is large, and it keeps growing. The “What Add-ons” feature scans your computer's Band-in-a-Box directory and displays what add-ons are and aren't found.

Choose MIDI | What add-ons do I have? to analyze your current installation and see which add-ons have been found.
This dialog displays the add-on styles and soloist disks you have installed in your Band-in-a-Box program folder. If any styles or soloist add-ons incorrectly appear in the "Not Found" window try reinstalling the appropriate add-ons from the original disc or download.
**GS Menu**

- **Reset Sound Canvas to Factory**… resets the module to factory settings.
- **Reset Sound Canvas And Send BB**… sends a reset message to the Sound Canvas and then sends the startup Band-in-a-Box patch changes.
- **Adjust Master Volume**… sets the overall output level for Band-in-a-Box.
- **Reverb Type** … or **Chorus Type** … Roland GS instruments allow different type of reverb and chorus settings. These settings boxes allow you to make a selection.
- **Assign Part/Chan/Patch/Bank**… If you are using a Roland GS synthesizer or sound module you can customize its settings with the **GS | Assign Part/Chan/Patch/Bank** menu command.
- The **Part Settings/Roland GS** are for GS compatible synthesizers only.
These synthesizers have 16 parts. The default is for part 1 to be channel 1, part 2 channel 2, etc., but you can change a part to another channel. This allows you to use the same channel for 2 parts, so that you hear a layer of 2 instruments playing the same part.

Send General MIDI Mode ON sets the external module to General MIDI mode. This command will ensure that the module is ready to accept GM-specific MIDI data such as Bank, Controller, and Patch information.

Send GS mode On Message (Roland) / Send XG Mode On (Yamaha): Since the inception of the GM (General MIDI) standard, there have been two major subsets/extensions of this standard - GS (Roland) and XG (Yamaha). Therefore, in addition to the GM Mode-on menu item feature there are additional commands to send a GS mode ON or a XG mode ON message at any time by accessing the GS menu.

Auto-Send GM mode at start sends a “General MIDI mode on” message when the program boots up.

Auto-Send GS mode at start sends a Roland GS system on message when the Band-in-a-Box program boots up.

Auto-Send XG mode at start sends a Yamaha XG system on message when the Band-in-a-Box program boots up.

Panic! (send all MIDI note-offs) This sends a sweep of all MIDI notes “Off.” Use if notes are stuck “On.”

Turn Local OFF (external MIDI keyboard)

If you are hearing the information played on your keyboard played twice (an echo effect) then Turn Local OFF. If you can’t hear what you are playing at all, set then Turn Local ON.

When program quits, turn Local ON

Normally while using Band-in-a-Box the “local-off” setting for your MIDI keyboard is best, since the THRU part will be coming from Band-in-a-Box and you don't want to hear your MIDI keyboard doubling the notes that are being played. However, when you exit Band-in-a-Box, you might want the “local on” setting for your synthesizer turned back on. This option defaults to true.

Set Panning to Mono / Set Panning to Stereo

Mono/Stereo menu options are available to easily switch all parts to mono or stereo. Also, if your current settings are mono, the program will offer to convert to stereo when you exit the MIDI Driver selection dialog.
Windows Menu

Notation Window toggles between the notation and the Chordsheet views.

Drum Window launches the animated Drum Kit.

Guitar Window launches the on-screen Guitar fretboard.

List Editor Window launches the List Edit utility for editing MIDI events.

Switch to Next Track / Switch to Previous Track selects parts in the row of Notation buttons.

Chord Reharmonist Dialog (choose your own) shows you the current bar in the song with a list of suggested chord progressions for the current melody, based on the melody and genre that you choose.

Auto-Generate Chord Reharmonization generates an entirely new chord progression for a complete song or a portion of a song. Selecting this menu option opens the Reharmonist dialog.

RealDrums Settings launches the dialog for enabling RealDrums substituting them in styles and songs.

RealDrums Picker opens the list for choosing a RealDrums style for the current song.

RealTracks Settings opens the dialog for enabling RealTracks and showing notation and saving RealCharts.

RealTracks Picker opens the Assign RealTracks to Track dialog for assigning RealTracks to any BB part.

Run Audio Chord Wizard (standalone) launches the Audio Chord Wizard program.

Run Audio Chord Wizard (with Audio file) presents an Open Wave File window for the Audio Chord Wizard.

Read Chords from AudioChordWizard enters the chords into Band-in-a-Box.

Plugin Mode for Sequencer-DAW enters the plug-in mode. The Band-in-a-Box window becomes smaller and you can use it with your DAW (GarageBand, etc.). To export a Band-in-a-Box track, drag the radio button for the part you want to export into the blue “drop station” rectangle in the upper left corner of the main screen. When the rectangle turns green, drag and drop it to your DAW or the Finder.
Help Menu

Search will list all menu items related to the search term.


Panic! All Notes Off!!
This sends a sweep of all MIDI notes “Off.” Use if notes are stuck “On.”

Visit web site www.pgmusic.com … Launches your Internet browser and loads the PG Music Inc. home page.

Keystroke Commands – “Hot Keys”
It's often faster to use keystrokes instead of picking up the mouse. We've added many keystroke “hot keys” to mute instruments or to adjust volume, panning, reverb, chorus, or bank of instrument without using the mouse.

If a hot key is not performing as expected, it might be because the operating system has assigned a different function to that key. You can disable the operating system hot keys assignments by going to the Apple System Preferences/Keyboard & Mouse and clicking on the Keyboard Shortcuts tab. Scroll down to find the key you are looking for, and uncheck it in the “On” column. Then your Band-in-a-Box hot key should work properly.

Keystroke List
This is a list of keystroke “hot keys.” These keys are also listed on the pull down menus beside the function.

Play the song ⊙A
Set the first bar of the Chorus ⊙B
Copy ⊙C
Delete the Highlighted Chord Area ⊙D
Set the Last (Ending) bar of the Chorus ⊙E
Display and edit Favorite Patches Dialog ⊙F
Reset Sound Canvas and send BB MIDI settings ⊙G
Melody Harmony ⊙H
Insert x bars in the highlighted chord area ⊙I
Jukebox play ⊙J
Previous jukebox song ⊙J
Next jukebox song ⊙J
Open Main Settings dialog (title, key, tempo, etc.) ⊙K
Set the number of choruses in a song ⊙L
Display and edit the MIDI Settings ⊙M
New song ⊙N
Open song from disk ⊙O
Print current song ⊙P
Quit the program ⊙Q
Replay already constructed song ⊙R
Save already open song to disk ✽ S
Thru Harmony ✽ T
Load style from disk ✽ U
Paste ✽ V
Set the number of lead in bars ✽ W
Cut ✽ X
Load a “SETUP.DK” file from disk ✽ Y
Undo song settings ✽ Z
Send General MIDI mode On ✽ =
Panic! All notes Off ✽ /

Additional Hot Keys
Press [ ] 4 times to set tempo and play a song. [=]
Press [+] to just set the tempo. [+] r
Records a melody to the currently loaded song. r
Plays the song from the current cursor position. x
Enters lyrics in the Lyrics window. l
Moves the cursor to the right. tab
Moves the cursor to the left. Shift+Tab
Help F1, Shift+1, Ctrl+F1
Save song F2
Save song with patches ✽ +F2
Open song F3
Load favorite song Shift+F3
Load songs with melodies ✽ +F3
Play song F4
Select Soloist Shift+F4
Quit + end program ✽ +F4
Edit current bar options F5
Melodist Generate Chords/Melody Shift+F5
Save MIDI file F6
Open filtered by style F7
Refresh Soloist Shift+F7
Jukebox start/stop F8
Load next song Shift+8
Choose a user style F9
Choose a favorite style Shift+F9
Edit user style ✽ +F9
Allow Melody harmony F10
Select Melody harmony Shift+F10
Allow Thru harmony F11
Select Thru harmony Shift+F11
Panic – all notes off F12
Quick Song Settings
These are for entering songs quickly in the Chordsheet and Notation windows. Typing special words, instead of chord names, will make the following settings:

- begin <Enter> - sets the beginning of the chorus to the current bar
- chorusend <Enter> - sets the end of the chorus to the current bar
- end <Enter> - sets the end of the song to the current bar
- tkc <Enter> - sets key signature to C, tkbb would set it to Bb
- trc <Enter> - transposes song to key of C
- t125 <Enter> - sets tempo to 125

Direction

- Arrows
  - Move the cursor in the appropriate direction.
- < >
  - Adjust the tempo by increments of 5.
- l
  - Displays the Lyric Mode. Hit ESC or '=' to exit.
- p
  - Set/Advance Part Marker at cursor location.

During Playback

- delete
  - Pauses Song / Resumes Playing Song.
- [+] or [=]
  - Increments Patch number by +1.
- [+] or [-]
  - Decrements Patch number by +1.
- shift [+] or [-]
  - Increments Patch number by +5.
- shift [+]
  - Decrements Patch number by +5.
- 0 + 9
  - Select Favorite Instruments/Combos
- esc
  - Stops Song
- Ctrl+9 +1
  - Transposes Melody down 1 octave

Muting Parts

You can also mute a Part by Option-Clicking its button at the top-left of the Main Window.

- ² 2
  - Mutes the Combo (all the instruments)
- ² 3
  - Mutes the Bass
- ² 4
  - Mutes the Piano
- ² 5
  - Mutes the Drums
- ² 6
  - Mutes the Guitar
- ² 8
  - Mutes the Strings
- ² 9
  - Mutes the Melody
- ² 0
  - Mutes the THRU

Selecting Parts

- Ctrl+2
  - Selects the Combo

Hold down Ctrl+Shift and the letter to change the value for the selected part:

- E,R
  - Decrease/Increase Reverb
- T,Y
  - Decrease/Increase Chorus
- U,I
  - Decrease/Increase Panning
- O,P
  - Decrease/Increase Bank
- Q,W
  - Decrease/Increase Volume

Holding down Ctrl+Shift and I+9 and 0 keys (on top row of keyboard) selects favorite instrument patch.

Hold down Ctrl+Shift and [+] and [=] keys to decrease/increase patch by 1.
For example, let's change the Piano part to Rhodes Piano using keystrokes.
1. Press \texttt{Ctrl+4} to select the Piano part.
2. Press \texttt{Ctrl+Shift+2} to select the Favorite #2. That is Rhodes Piano.

**Chord List**

(Commonly used chords are displayed here in **bold** type)

(Major chords)
- C, CMAJ, C6, \textbf{CMAJ7}, \textbf{CMAJ9}, CMAJ13, C69, CMAJ7\#5,
- C5b, Caug, C+,
- CMAJ9\#11, CMAJ13\#11,

(Minor chords)
- Cm, Cm6, Cm7, Cm9, Cm11, Cm13,
- C-7: You can type C-7 for Cm7 (i.e. use the minus sign) or C7-9 for C7b9
  - Cmaug, Cm\#5,
  - CmMAJ7,

(Half diminished)
- \textbf{Cm7b5},

(Diminished)
- Cdim,

(Dominant 7th chords )
- C7,7+, C9+, C13+, \textbf{C13}, C7b13, C7\#11, C13\#11, C7\#11b13, \textbf{C9},
- C9b13, C9\#11, C13\#11, C9\#11b13, C7b9, C13b9, C7b9b13, C7b9\#11,
- C13b9\#11, C7b9\#11b13, C7\#9, C13\#9, C7\#9b13, C9\#11, C13\#9\#11, C7\#9\#11b13,
- C7b5, C13b5, C7b5b13, C9b5, C9b5b13, C7b5b9, C13b5b9, C7b5b9b13,
- C7b5\#9, C13b5\#9, C7b5\#9b13, C7\#5, C13\#5, C7\#5\#11, C13\#5\#11, C9\#5,
- C9\#5\#11, C7\#5b9, C13\#5b9, C7\#5b9\#11, C13\#5b9\#11, C7\#5\#9, C13\#5\#9\#11,
- C7\#5\#9\#11, C13\#5\#9\#11,

( suspended 4 chords )
- \textbf{Csus}, \textbf{C7sus}, C9sus,
- C13sus, C7susb13, C7sus\#11, C13sus\#11, C7sus\#11b13,
- C9susb13, C9sus\#11, C13sus\#11, C9sus\#11b13, C7susb9, C13susb9,
- C7susb9\#11, C13susb9\#11, C7susb9\#11b13, C7sus\#9, C13sus\#9, C7sus\#9b13, C9sus\#11,
- C13sus\#9\#11, C7sus\#9\#11b13,
- C7susb5, C13susb5, C7susb5b13, C9susb5, C9susb5b13, C7susb5b9,
- C13susb5b9, C7susb5b9\#11, C7sus\#5, C13sus\#5, C7sus\#5\#11, C13sus\#5\#11, C9sus\#5,
- C9sus\#5\#11, C7sus\#5b9, C13sus\#5b9,
- C7sus\#5b9\#11, C13sus\#5b9\#11, C7sus\#5\#9, C13sus\#5\#9\#11, C7sus\#5\#9\#11,

Notes about entering chords:
- It is not necessary to type upper or lower case. The program will sort this out for you.
- Any chord may be entered with an alternate root ("Slash Chord") e.g.: \texttt{C7/E} = C7 with E bass
- Separate chords with commas to enter 2 chords in a 2 beat cell e.g.: Dm7,G7
New chords added:
- C5b: This is C flat 5. It is spelled this way to avoid confusion. C2 C5 C4 C69 C7alt Cm7#5

Chord Shortcut Keys: Speed up chord entry with these shortcut keys.
- J = Maj7 (To type CMaj7, just type CJ. It will be entered as CMaj7.)
- H = m7b5 (H stands for Half diminished)
- D =dim
- S =$sus

Files and Folders

Band-in-a-Box Folder
The Band-in-a-Box program installs by default to its own Band-in-a-Box folder inside the /Applications folder. Unless there is an important reason to install it to a different location, we suggest that you accept the default location.

Band-in-a-Box
The /Band-in-a-Box folder has a clean look with only one program file in the folder (the Band-in-a-Box application). The rest of the files are in subfolders.

AudioChordWizard
The powerful Audio Chord Wizard feature can be run as a stand-alone program from this folder to interpret the chords from popular audio file types such as MP4, M4a, AIFF, and CD audio.

Data
These files contain the lists and data for the various Band-in-a-Box features. Most of them are not directly edited, but user edits to the program features are saved to them. For example, if you add or make new styles and rebuild the list in the StylePicker the file BBW.LST is updated.

One file that can be edited is pgshort.txt. Follow the directions given to add your own shortcuts for entering chords in Band-in-a-Box.

Drums
This folder has subfolders containing the files for all of the RealDrums sets installed in your program. It is the default location recognized by Band-in-a-Box when it installs RealDrums sets and generates a RealDrums part.

If this folder is moved or the RealDrums files are installed in a custom location, the new location must be entered in the RealDrums Settings dialog so that Band-in-a-Box knows where to find them.
Drums – Demos
Every RealDrums style has a Band-in-a-Box demo song, which can be loaded directly from this folder as a song file. Once a demo song has been played from this folder, you can then use the SongPicker (Select Song by Title) dialog to choose songs from a list.

Manuals
This folder includes a manual with a guide to latest features in the current Band-in-a-Box upgrade, Band-in-a-Box -- Upgrade Manual.pdf, plus a recent version of the full manual named Band-in-a-Box ---- Mac Manual.pdf. These files are bookmarked for easy reference, and individual pages can be printed out as required. Helpful supplements are sometimes included, such as the Band-in-a-Box CoreMIDI help.pdf that explains how to set up external MIDI devices to the Macintosh.

Melodist Demos
These are Band-in-a-Box songs made with the Melodist feature that generates complete songs with chords and melodies. You can select individual songs to hear an example of the different Melodist styles, or you can play them all by clicking on the [Juke Songs Now] button in the Melodist dialog.

Preferences
The Preferences you set in the program are saved in the Preferences folder, and this folder also has a file named Interface_X86.BBW with all the program settings including MIDI and audio driver setup. If this file is removed to the trash the program will open like a new installation the next time it runs. It will prompt for all of the initial setup selections. This is useful as a “global reset” if system settings have been changed by accident and are difficult to restore.

RealTracks
This folder has subfolders containing the files for all of the RealTracks instruments installed in your program. It is the default location recognized by Band-in-a-Box when it installs RealTracks sets and generates RealTracks. If this folder is moved or the RealTracks files are installed in a custom location, the new location must be entered in the RealTracks Settings dialog so that Band-in-a-Box knows where to find them.

RealTracks – Demos
Every RealTracks instrument has a Band-in-a-Box demo song, which can be loaded directly from this folder as a song file. Once a demo song has been played from this folder you can then use the SongPicker (Select Song by Title) dialog to choose songs from a list.

Soloist Demos
These are Band-in-a-Box songs made with the many soloist styles available. There are subfolders for every Soloist set. Once you select a song from the File | Open menu command you can use the [Song] button to choose from a list of songs in the subfolder.

Soloists
Soloist files are stored here, both for MIDI soloists and solos that use RealTracks instruments. If you install soloist add-on sets this is where to put them.

Songs
This is the default folder for storing your Band-in-a-Box songs, the default folder that is selected by the File | Open Song menu command. It includes the basic Band-in-a-Box song library, and the songs you make yourself will be stored here unless you specify a custom folder for them. Band-in-a-Box accompaniments are saved with the file extension *.sgu. If a melody has been recorded the file extension will be *.mgu. The “u” indicates a song made with a user-editable style. The original 24 Band-in-a-Box styles are an exception, they use song file names ending in numbers from 1-9 and letters from A-O, but all later styles end in “u.”

Songs and Lessons
Band-in-a-Box comes with a large library of songs that demonstrate some of the most popular styles of music as well as songs for listening, learning, and jamming. This folder is packed with musical content for a variety of tastes and purposes.
Style Demos
Every Band-in-a-Box style has a demo song stored in this folder. There are a lot of them, the easiest way to play them is to pick the style that interests you in the StylePicker dialog and then click on the [Song Demo] button to hear the demo song for that style.

Styles
Band-in-a-Box styles use the file extension .sty and are stored in this folder. These are the styles that are listed in the StylePicker. If you add new styles, they will be installed in this folder and added to the StylePicker list by clicking on the [Re-Build] button.

Synth Kit Documentation
These are documents that describe the synth kits provided in the Synth Kits folder.

Synth Kits
Even though the General MIDI and GM2 patch lists have been widely adopted, Band-in-a-Box supports many other MIDI patch lists and drum kits. The .DK files in this folder are pre-formatted GM patch lists for most of the popular synthesizers, GM and non-GM, in use since the introduction of Band-in-a-Box. The .PAT files are for the patches found on higher banks GM and other synths, and include the custom bank change commands to provide access to any patch on any MIDI synthesizer. Users can write custom .DK and .PAT files and save them to this folder.

Tutorials
This folder contains the files provided for use with the tutorials found in the help file.
Be sure to visit the FAQ pages at www.pgmusic.com for information about known troubleshooting issues as well as the latest technical support bulletins.
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Registration Form

Please register your program. Registering your PG Music software entitles you to free, unlimited technical support, advance notice of product upgrades, and news about new product releases. If you haven't registered your PG Music software yet, please take a few moments and do so now.

How to Register

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Name
____________________________________________________________________________________

Address ______________________________________________________________________________________

City _________________________________________________________________________________________

State/Province ________________________________________________________________________________

Zip/Postal Code _________________________________________________________________________________

Country ______________________________________________________________________________________

Telephone __________________ Fax __________________

E-mail address __________________________________________

Computer (check): PC MAC Model ____________________________

Operating system (e.g. Windows XP, Vista; Macintosh OS X) ____________________________

What MIDI interface are you using? ____________________________

What primary synth/sound card do you use? ____________________________

Favorite Styles: Jazz ___ Rock ___ Pop ___ Country ___ Other ____________________________

Purchased from _______________________________________________________________________________

Date of purchase _______________________________________________________________________________

Comments/Suggestions__________________________________________________________________________

_____________________________________________________________________________________________

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