Gnome Digital Media / recipe4DVD presents:

Take Garage Band

out of the Garage…

Date: Wednesday, January 12, 2005
Presenter: Bruce Nazarian, MPSE - Gnome Digital Media

– and some other cool add-ons, too!

– and a brief Q & A

GarageBand – Daydream
Tracks
Mixer
Rock Kit
Muted Electric Bass
Cymbal Swells
Guitar
Master Volume
Tools for GarageBand:
I/O, Keyboard, Midi

Audio In/Out

Just like in a professional recording studio, great microphones, preamps, and speakers mean you can create a higher quality product, and hear more accurately while Mixing.

Recipe 4 DVD

http://www.m-audio.com

Macworld Conference & Expo

Data In/Out

A good keyboard will let you program parts easily, and will likely also provide MIDI In and or Out as well.
The M-Audio 49-key is connected and powered by USB, so no need for a dedicated MIDI port or PSU.

http://www.m-audio.com

Extra MIDI Ins/Outs

In addition to the internal voices available, MIDI data can be routed to external voice modules via a MIDI Interface

MIDI 2 In 2 Out

MIDI 4 In 4 Out

http://www.m-audio.com

Extra Mixing Channels?

At some point, your music studio might even grow larger than your Mac - perhaps that's a good time for extra mixing channels to add to the fun.

Recipe 4 DVD

http://www.mackie.com

Macworld Conference & Expo

Need More Controls?

and then there's *The Big Knob* controller - which adds the Kitchen Sink for studio controls. Adds Speaker switching, talkback, input select, even LED metering!

http://www.mackie.com

Maybe some day...

Larrabee North,
Control Room A
Los Angeles, CA

Acoustic Design:
Steven J. Klein

Photo:
Ed Colver

Recipe 4 DVD

http://www.soundcontrolroom.com

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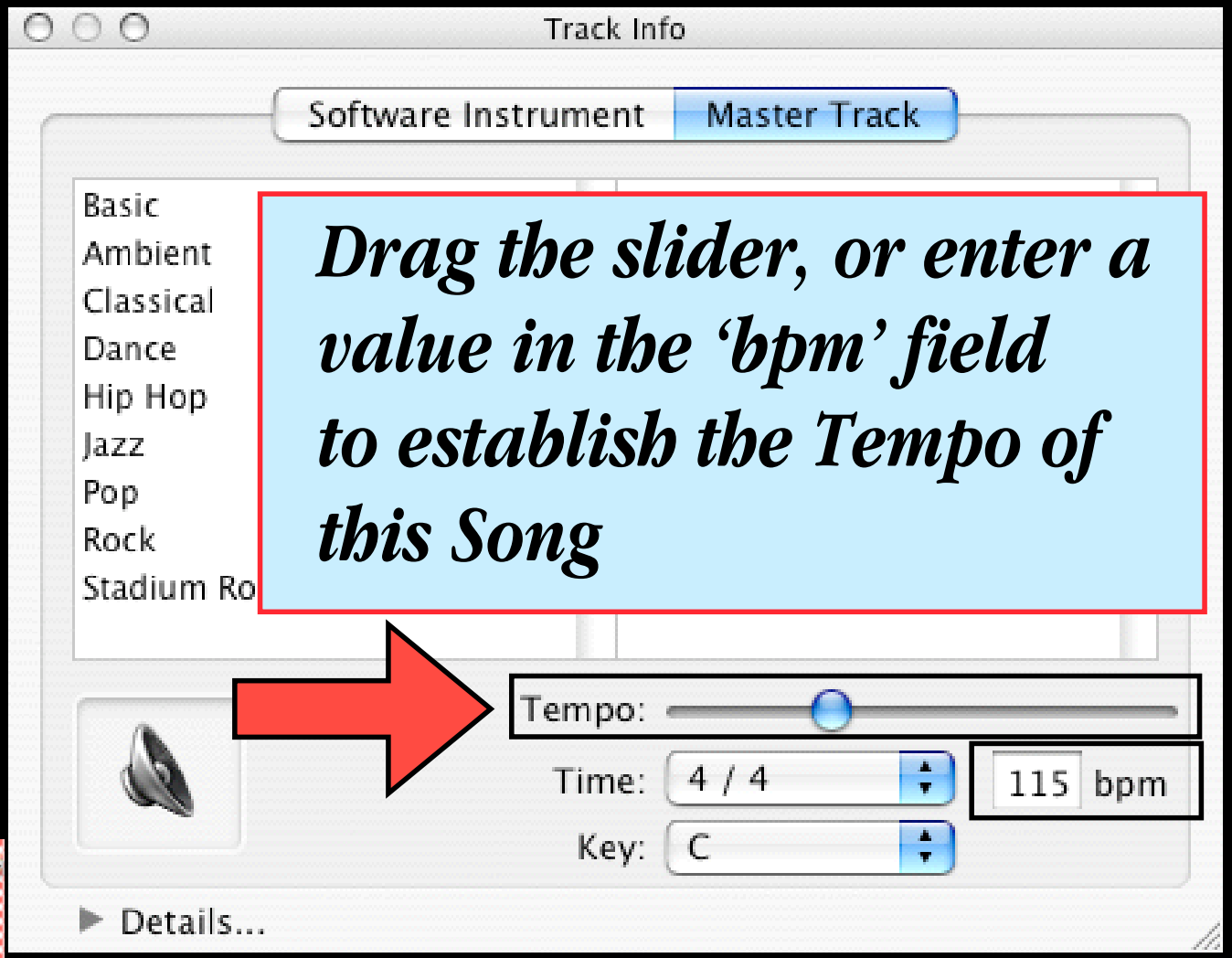
Music Basics
Tempo, Meter, Key

Tempo

Every GarageBand song has a defined tempo, to establish the speed of the song; this is set in the original song setup, and can be modified in the Master Track setup in Track Info - but each song can have only ONE tempo! This may make a bit difficult to do sophisticated musical functions like *accelerando* and *decelerando* (speeding up and slowing down) but pop music, in general is performed at a constant Tempo from start to finish.

Tempo - how fast?

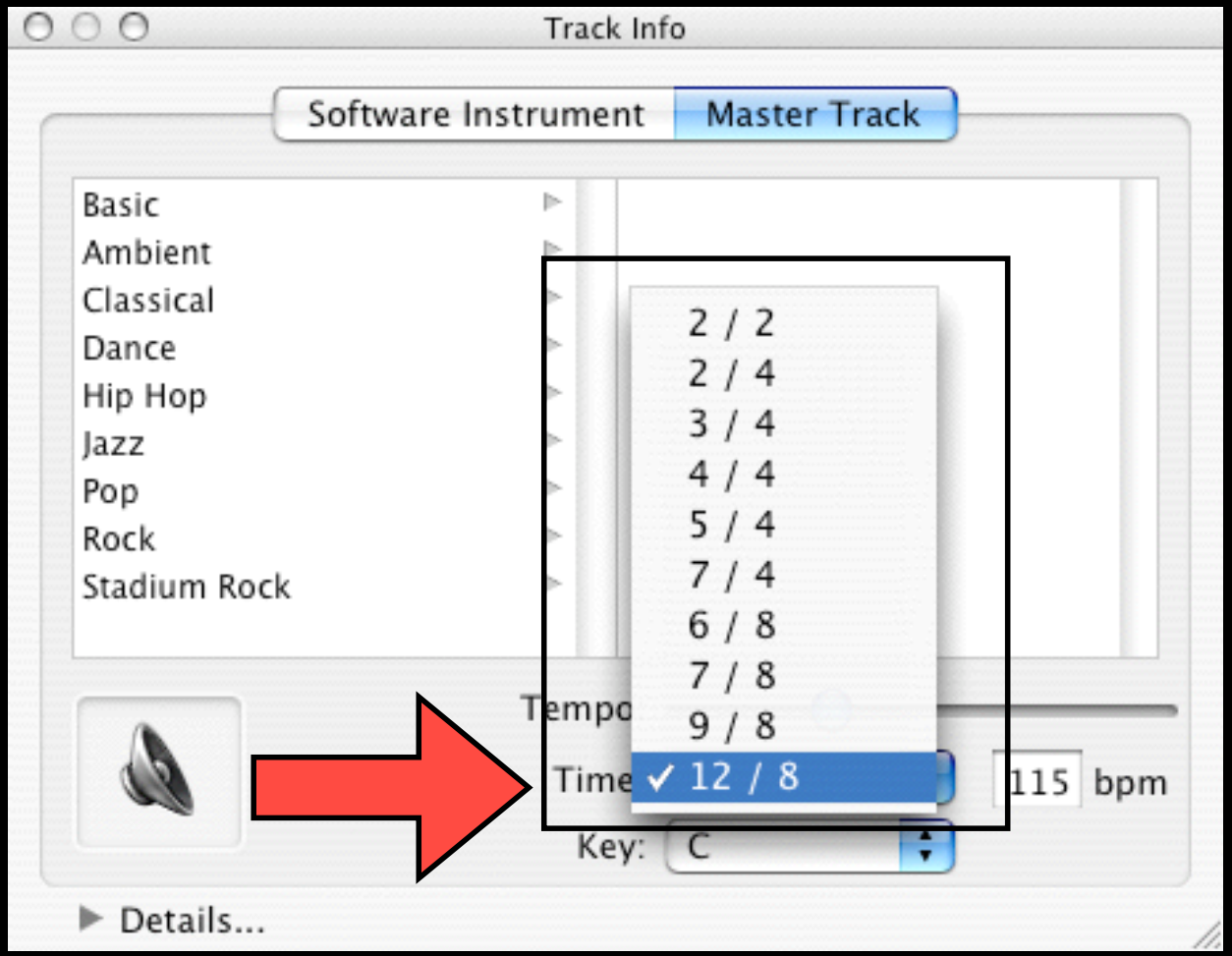


Meter - "Time Signature"

Every GarageBand song has a defined Meter, also called Time Signature, to establish the number of beats per minute; this can also be modified in the Master Track setup in Track Info - but each song has only ONE Meter!

Meter is denoted by a fraction, like 4/4 which means 4 beats per measure, each a quarter note, or 12/8 meaning 12 beats per measure, each one an eighth note. The "feel" of the song can be greatly influenced by the Meter you select.

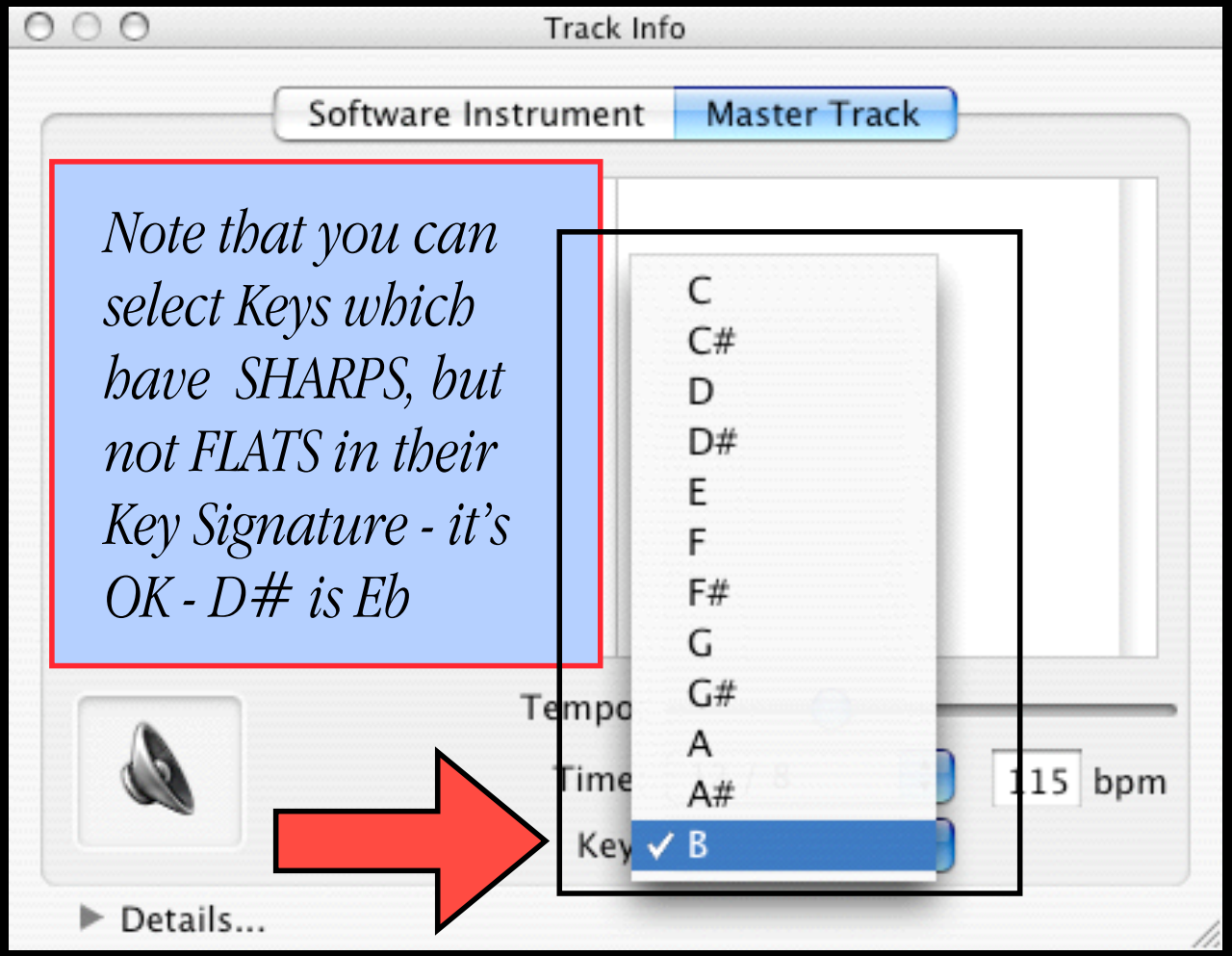
Meter - "Time Signature"



Key

Every GarageBand song has a defined Key, to establish the tonal home base, or modality of the song. Countless books havebeen written about the psychological effect of KEY on the MOOD of the song. Key is set in the original song setup, but can be modified in the Master Track setup in Track Info - **Each GarageBand song has only ONE Key**, so you may have to do some tricks to make something sound like it has modulated! (**Modulation** is music-speak for changing Keys during a song.)

Key - "Tonal Home Base"



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Hollywood Strings
Master Volume
Structure:
Verse, Bridge, Chorus,
or maybe not!

Structure - Song or Score ?

Every GarageBand composition can be arranged in the timeline to be free-form, or organized into pop song structure - The beauty of the system is that the timeline allows you to create, copy and rearrange pop song snippets to your heart's desire, or to compose flowing linear sequences that might resemble something like film scores or "electronica". Even long linear tracks can be segmented, and rearranged, looped, repeated, etc. Think of GarageBand as a "Word Processor for your Music"!

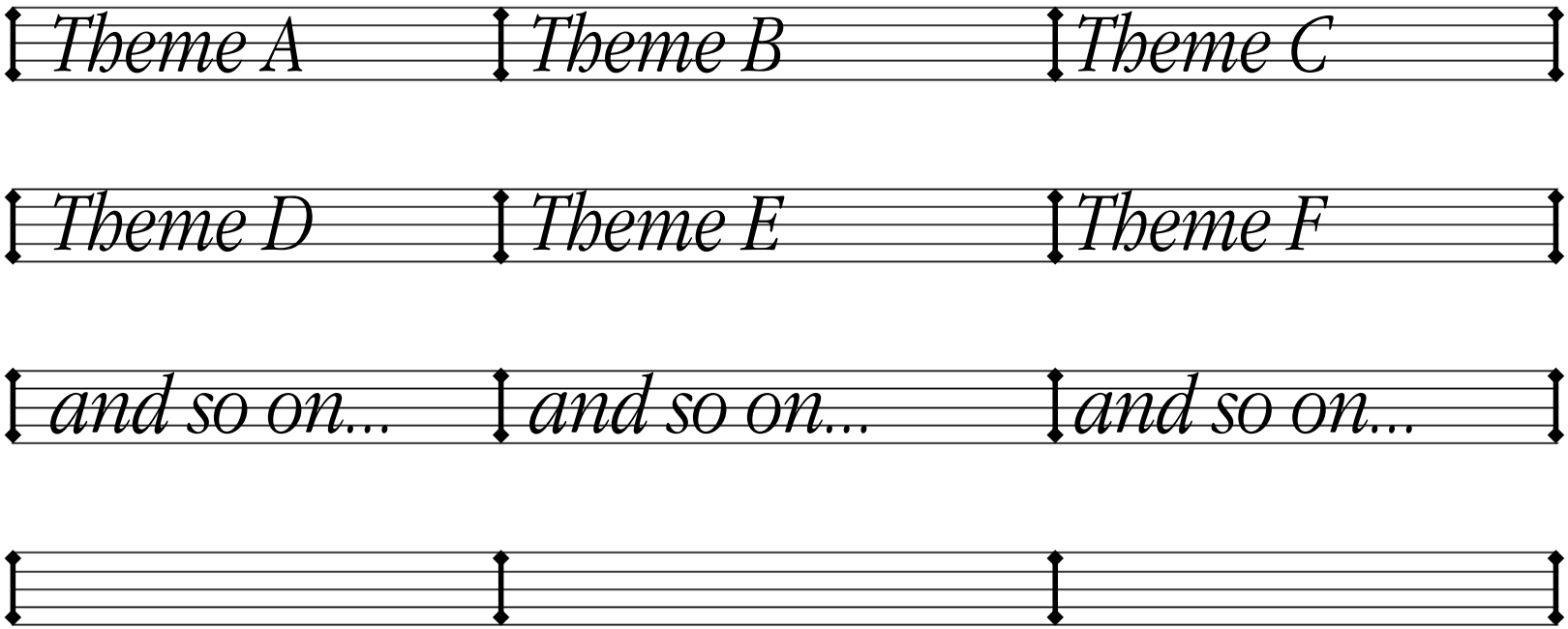
Pop Song structure

My Killer Composition

VERSE	*BRIDGE*	*CHORUS*
VERSE	*BRIDGE*	*CHORUS*
SOLO	*BRIDGE*	*CHORUS*
CHORUS	*CHORUS*	*CHORUS*

Linear structure

My Dreamy film score



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Master Volume
Mixing
and
Mastering

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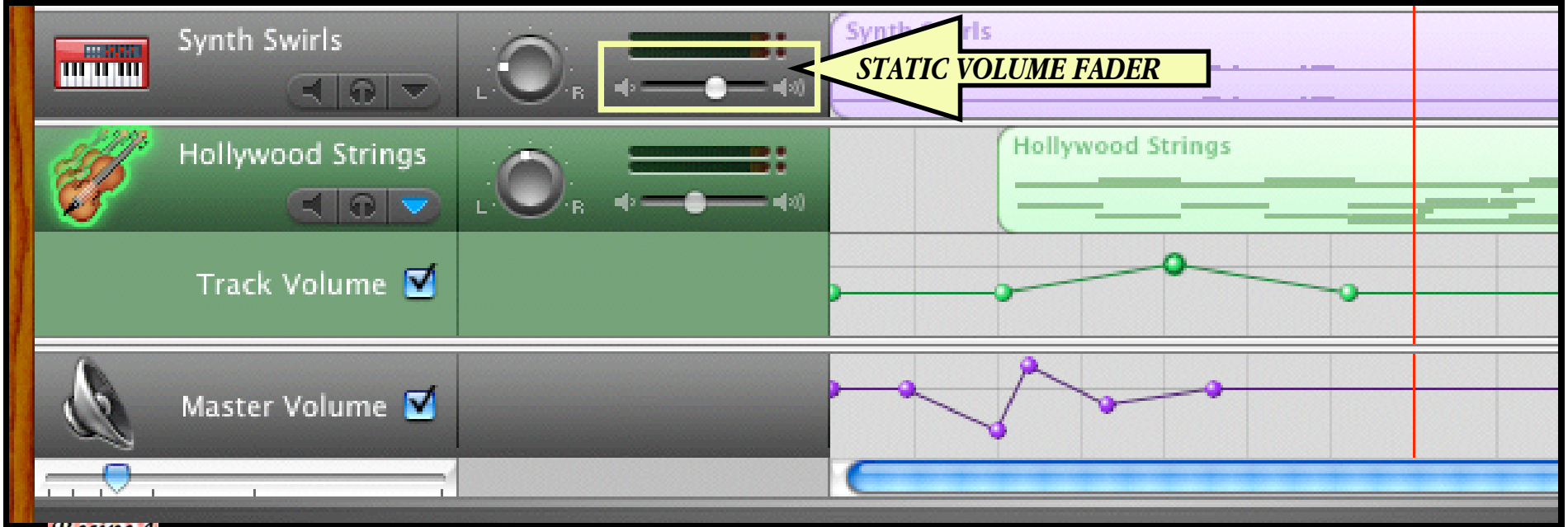
Hollywood Strings
Master Volume
7
13
19
25
31
TEMPO

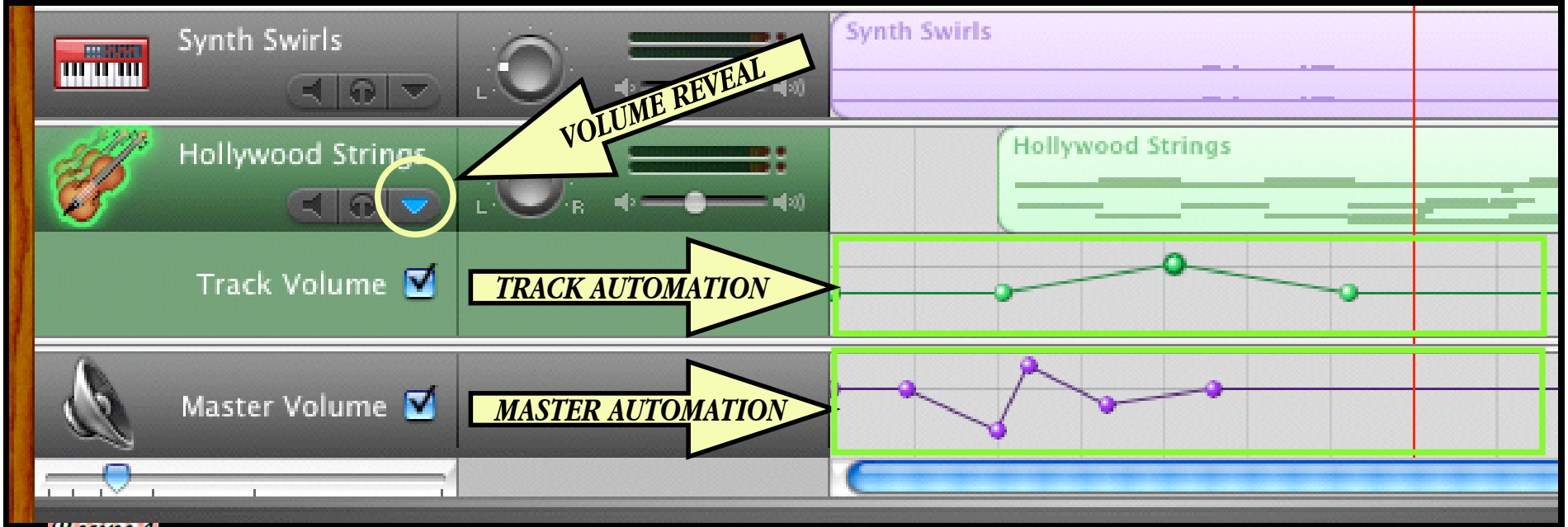
Level - static, or...?

You can set a fixed "static" volume for each track, and let that intsrument maintain a set level witin the mix, or...



Level - dynamic?

...you can open up the Track Volume automation control and set dynamic volume "rides" or "moves" to level or enhance. This is just like pro automated music mixing!



Recipe 4

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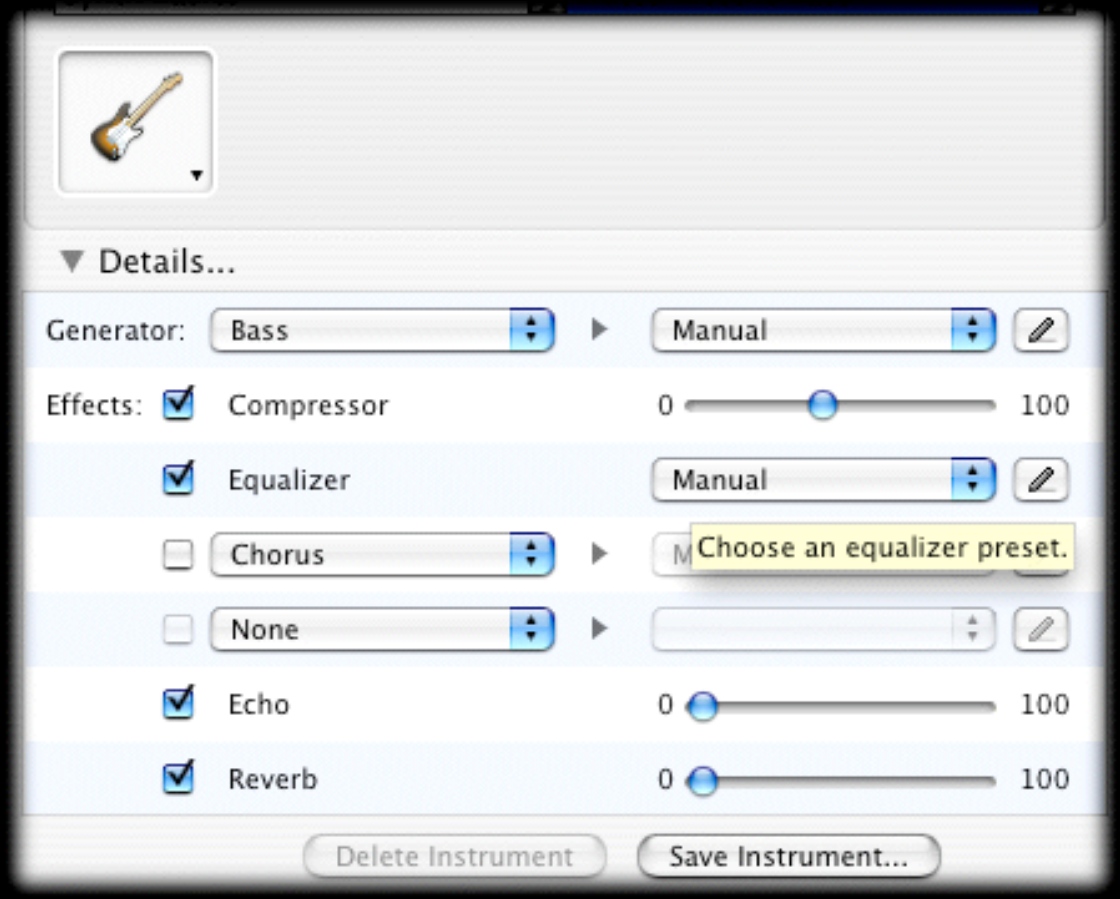
FX - a huge can of worms!

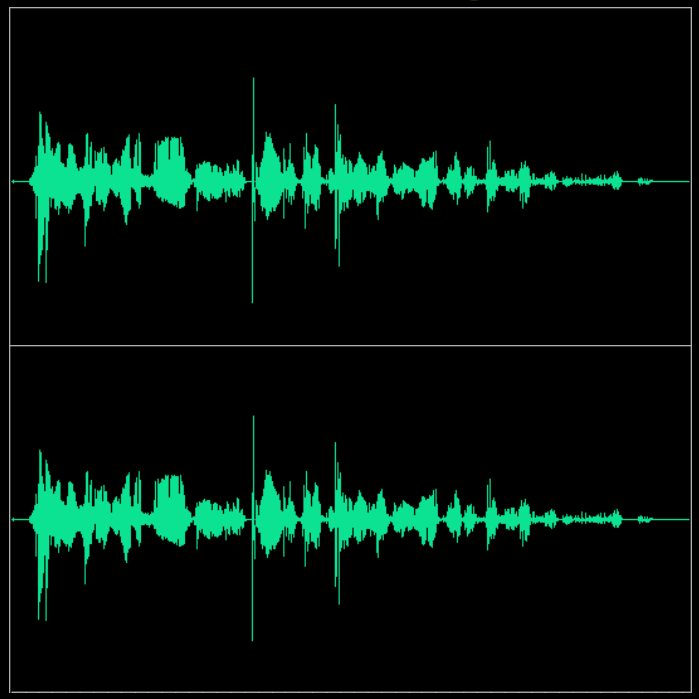


Tastefully used, effects can be great; but if overused, they can bury your song. Effects are programmed into each Instrument in the Track Info pane.

Mastering - final step

Mastering can dramatically shape the final sound of your creation:
Eq-ing and Leveling of the entire mix is possible in Pro Tools w/Waves, Bias Peak, even FCP!

Mastering - export AIFF



Don't forget you can submix your entire composition into a Stereo AIFF file, and use that as the basis of a new composition!

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GarageBand Performance Tips

Speed make a difference

A 2.5 GHz G5 is better than a 1.5 GHz G5!

Repeat after me:

"Faster is better"

"Faster is better"

"Faster is better"

2 CPUs make a difference

I mean, do we really have to have a discussion about how a dual processor system is inherently more powerful than a single-processor G5?

Repeat after me:

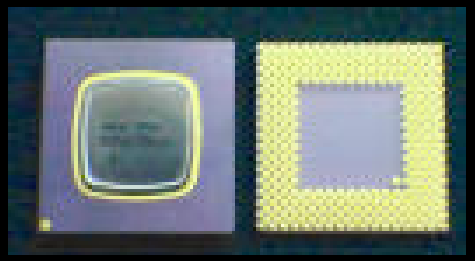
"Dual is better"

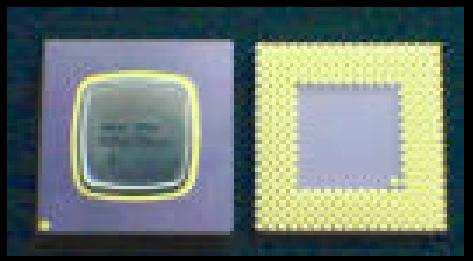
"Dual is better"

"Dual is better"

"Dual is better"

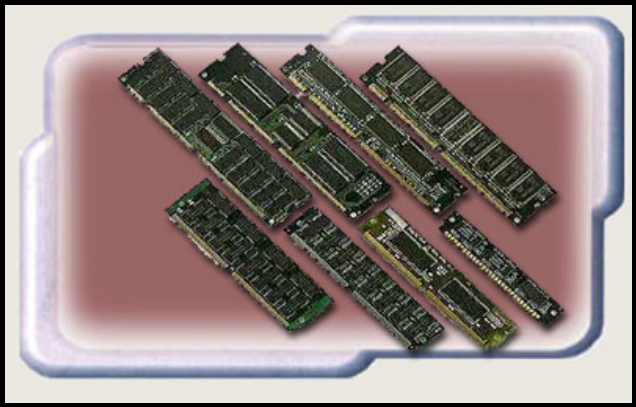
"Dual is better"





MAXimize RAM

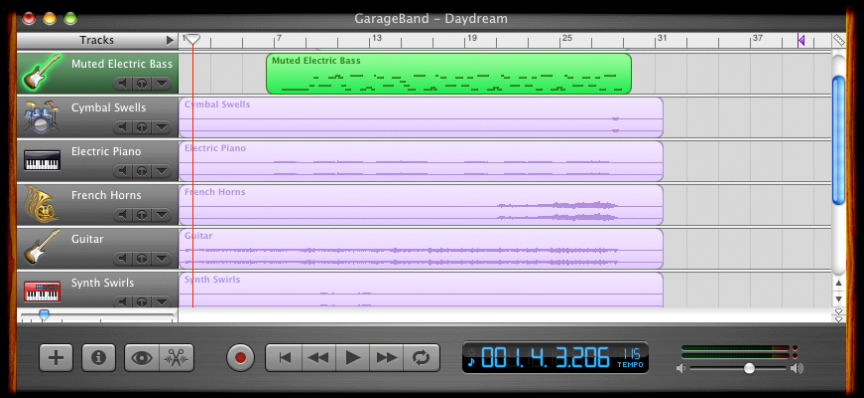
Nothing can unclog the congestion of a marginal machine like a giant helping of additonal RAM, so get our your Credit Card and surf over to your favorite RAM store.



Your Mac will love you for buying it gifts, and your GarageBand performance will benefit from the extra notes and tracks you will be able to add.

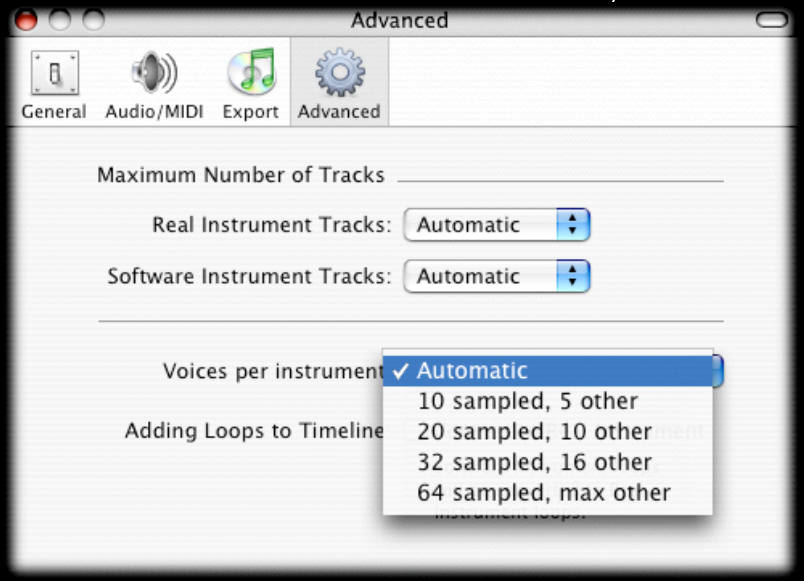
Minimize the screen size

Drawing all those cool tracks and events takes a bunch of horsepower, which might very well be wasted drawing pretty pix. Shrink the GarageBand screen as much as possible, and the CPU cycles you save can go for smoother playback, more voices etc.



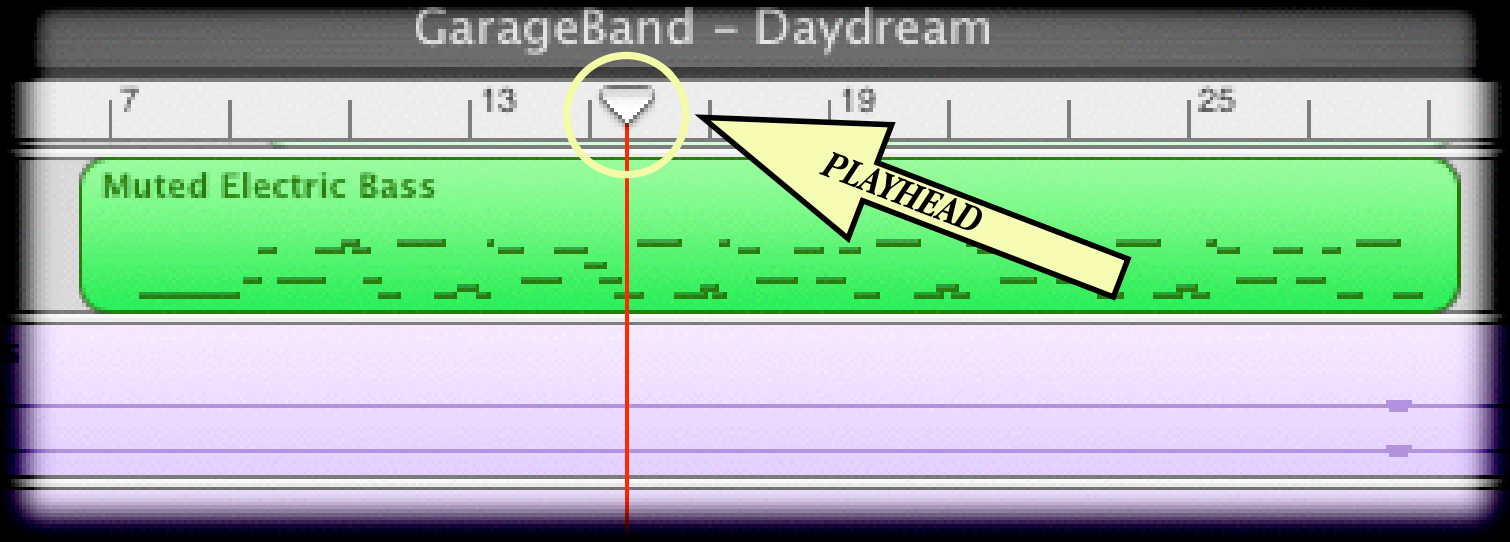
Minimize voice count

Software instruments also use CPU cycles to play sounds, and the more voices (notes) you play from a track, the more CPU power you use up. If you know you have a track, like a bass line, where you only want to hear one or at most two voices, limit the voice count in Adv. Prefs.



Watch the Playhead

The harder your Mac is working the more Red your Playhead will become - keep an eye on it, to warn you in case you're heading into the danger zone.



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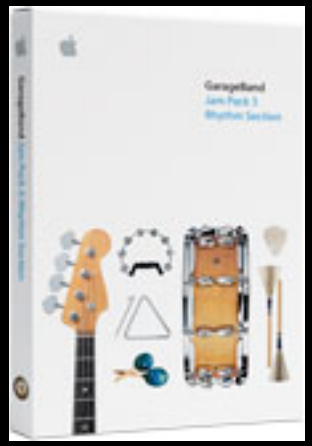
GarageBand
Enhancement
Add-Ons

Add-ons for Sounds

There are a TON of sounds, loops and effects that can be added to GarageBand - don't be boring! Add some!

Jam Pack 1

Jam Pack 2



Jam Pack 3

Add-ons for more voices

Consider using “Rewire” technology to link Garage Band with Rewired applications like “Reason”

“Rewire” links programs

REWIRE

“Rewire” can link Garage Band playback with Rewired applications like “Reason”

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Thanks for coming!

enjoy making music with GarageBand!

FOR MORE INFO...

http://www.apple.com/garageband