Gnome Digital Media / recipe4DVD presents:

Garage Band Advanced

"take GarageBand out of the Garage…"

Date: Wednesday, July 13, 2005
Presenter: Bruce Nazarian, MPSE - Gnome Digital Media

Recipe 4 DVD

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Welcome to GarageBand!

- Glad you could make it, you will enjoy the time…

- Get ready to explore some new ideas

- Our Agenda:
  - Tools for Garage Band - a review
  - Mixing and Mastering - Tips on Dynamics, FX, EQ, etc.
  - GarageBand performance tuneup tips
  - and some other cool add-ons, too!
  - and a quick Q & A, (if there's time)

Recipe 4 DVD

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Tools for GarageBand:

Make your studio *rock!*

Recipe 4 DVD

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Recording Gizmos

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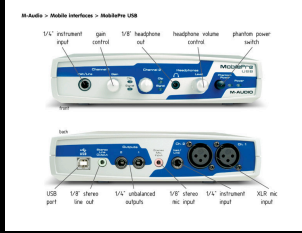more accurately   while mixing.

http://www.m-audio.com

Recipe 4 DVD

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Audio Ins and Outs

M-Audio > Mobile Interfaces > MobilePre USB

1/4" instrument input · gain control · 1/8" headphone out · headphone volume control · phantom power switch

USB port · 1/8" stereo line out · 1/4" unbalanced outputs · 1/8" stereo mic input · 1/4" instrument input · XLR mic input

MobilePre USB

Balanced mic preamps reduce noise, and transfer better fidelity into your recording device - this one runs off USB power, making your Powerbook Music studio completely road-worthy!

http://www.m-audio.com

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Great Mic = Better Vocal

$99 m-audio mic

In particular, great microphones and clean mic preamps mean you can capture a performance with far superior fidelity, to help create a higher quality end product.

A great mic can make all the difference, and a large-capsule Condenser mic is acknowledged to be a great way to capture vocals.

http://www.m-audio.com

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Better Monitors

Accurate speakers mean you can hear more accurately while mixing, creating a superior final mix.

http://www.m-audio.com

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Performance Data In

A good keyboard will let you program parts easily, and can also be used with MIDI modules, 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

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Extra In/Out Channels?

Lots of I/O can really help separate things if you're using an external mixer or MIDI stuff.

MOTU Traveler Firewire I/O - 22 ins, 20 outs! - RUNS ON BUSS POWER!

http://www.motu.com

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Need More Control?

... there's always *The Big Knob* controller - which adds the Kitchen Sink in studio controls. Add Speaker switching, talkback, input select, even LED metering!

http://www.mackie.com

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Dare to dream big!

Larrabee North, Control Room A Los Angeles, CA

Acoustic Design: Steven J. Klein

Photo: Ed Colver

http://www.soundcontrolroom.com

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Mixing and Mastering

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Mixing - getting it right

Every GarageBand composition will likely be comprised of a number of different Tracks and Instruments, each occupying a particular place in the "soundscape".
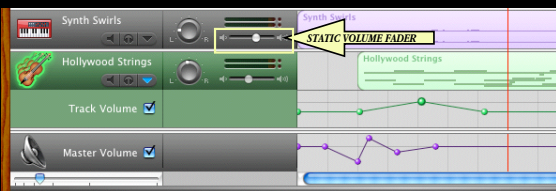
Using boring mono sounds flat and dry is SO 1940's, but for many compositons, a little bit of reverb, echo, Fx and Eq is like the right combo of spices in a well-made delicacy! But before you spice it up, get the levels right!
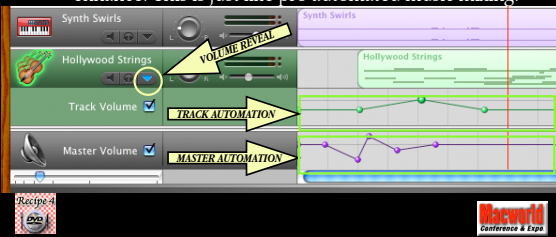
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Level - static, or...?

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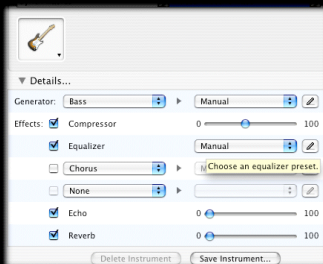

STATIC VOLUME FADER

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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!

VOLUME REVEAL

TRACK AUTOMATION

MASTER AUTOMATION

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FX - a can of worms?

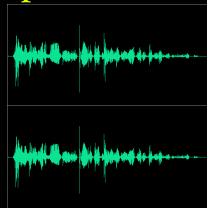Tastefully used, effects can be great; but if overused, they can bury your song. Effects are programmed into each Instrument in the Track Info pane.

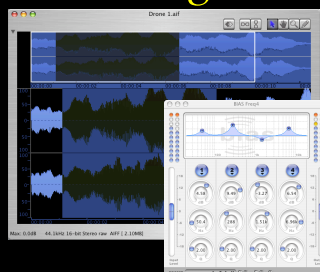16

Export AIFF for Mastering

Don't forget you can submix your entire composition into a Stereo AIFF file, and use that as the basis of a new composition, or load it into your Mastering tools for the final "polishing"!

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Mastering - final step

Mastering can dramatically shape the final sound of your creation: Eq-ing and Leveling of the entire mix is possible in tools like Bias Peak!

http://www.bias-inc.com

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Mixing in Surround Sound

Surround Sound mixes (5.1 for your DVDs) can be created in tools like Bias DECK...

http://www.bias-inc.com

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GarageBand Performance Tips

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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"
"Faster is better"
"Faster is better"

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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?
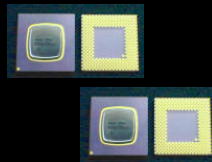
Repeat after me:
"Dual is better"
"Dual is better"
"Dual is better"
"Dual is better"
"Dual is better"

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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. 4 GB is good, 8 GB is great!

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

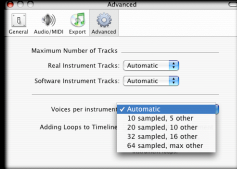23

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.
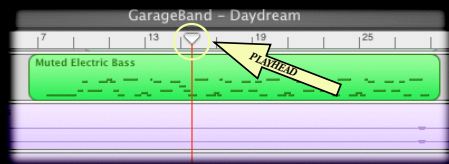
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Minimize voice count

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.

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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

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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   Jam Pack 4

http://www.apple.com/garageband

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Add-ons for Sounds

Great sounds can be found from Native Instruments

B4

FM7

Pro-53

and even more

http://www.native-instruments.de

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Add-ons for Effects

There are a TON of sound effects that can be added into GarageBand or Soundtrack.. be adventurous!

Sound Effects

Ambiences

"Found Sounds"

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Add-ons for Drums

Besides drum LOOPS, you can find lots of individual drum SOUNDS that allow you to create your OWN personal rhythms easily - many work as Audio Unit plugins for GarageBand

Double-Click To Install
iDrum Demo
The Drum Machine For Mac OS X

iDrum

iDrum for Mac OS X.
Free demo available
on download

http://www.glaresoft.com

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Add-ons for Drums

Beyond iDrum, BFD is an incredible new Drum unit that works on Macintosh.

BFD adds multiple drum samples, with multiple velocity levels, for a very authentic performable live drum sound. BFD also provides multiple miking samples, so you can vary room and dry sounds.

http://www.fxpansion.com

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Add-ons for Drums

Battery provides multiple drum samples, with multiple velocity levels, for a very authentic performable live drum sound. Extensive control is possible with this killer drum set.

http://www.native-instruments.com

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Add-ons for more voices

You can use "Rewire" technology to link Garage Band with Rewired applications like "Reason"

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"Rewire" links programs

"Rewire" can link Garage Band playback with Rewired applications like "Reason"

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"Rewire" demo w/ Reason

Your *Garage Band* Composition can control a *Reason* sequence in real time!

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Join a GB Community!

iCompositions
Share your GarageBand Creations.

Post your *Garage Band* Composition for the public to hear, and share tips and tricks with other GarageBand users online! Find tools, loops, chat, and more! *Google* to find them...

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Q&A

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Thanks for coming!

enjoy making music
with
GarageBand!

FOR MORE INFO...

http://www.apple.com/garageband

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