

# GarageBand on the iPad

## TIES Workshop

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### Resources

<http://www.ipadcreative.com/blog/2011/3/29/a-superb-40-minute-garageband-tutorial-video.html> (Excellent tutorial video)

<http://www.butterscotch.com/tutorial/How-Do-I-Use-GarageBand-On-iPad-?src=TCsearch&q=GarageBand+iPad> (Original website for the tutorial)

<http://iosmusicandyou.com/2012/03/22/ipad-music-app-review-and-tutorial-garageband-note-editing/> (Note Editing, new feature)

General Help Information: Clicking on the question mark in the upper right corner of the screen will bring up an overlay of information and instructions. Tapping on a help item will often bring up a second screen with more information.

### Instruments

There are 2 kinds of instruments: instruments that look and “play” like regular instruments (Keyboard, Drums) and “Smart” instruments that can play automatically (Smart Drums, Smart Strings, Smart Bass, Smart Keyboard, and Smart Guitar). The Smart Guitar may also be played as a normal guitar. In addition, you will find a guitar amp for use with a connected electric guitar, an Audio Recorder (with internal or external mic), and a Sampler for creating original sounds.

#### Drums

1. Regular drums – touch sensitive both in volume and placement on the drum; different drum kits
2. Electronic drum kits – synthesizer; can customize them with the buttons, save the kit
3. Smart Drums
  - a. Drag onto grid – up/down is loudness; r/l is complexity
  - b. Roll the dice for a random rhythm
  - c. Can change the drum kit
  - d. When done, record onto the track.

#### Keyboards

1. Regular keyboard
  - a. Octave changer (arrow keys)
  - b. Sustain – holds notes longer (on or off)

- c. Glissando/Scroll – slide or move the kb up and down
  - d. Scale – major, minor, blues, etc. – to return to the regular keyboard, open again and turn off.
  - e. Arpeggiator
    - i. Turn on the Arpeggiator and use descriptors to choose the arpeggio style and range.
    - ii. Hold down the chord that will be arpeggiated.
    - iii. Slide “Sustain” to “Latch.” Play other notes to transpose the arpeggio. Press Latch again to turn off.
  - f. Keyboard controls
    - i. Keyboard layouts
    - ii. Velocity – controls for touch sensitivity
    - iii. Key controls – show or hide Glissando/Slide control
  - g. Choice of Keyboard – center icon
    - i. Tap to change kind of keyboard – some have customization knobs, can save a custom instrument.
2. Smart Keyboard
- a. Towers - tap to play; each tower is a chord.
    - i. Strum whole chord or play higher or lower ranges of the chord
    - ii. Gray areas are bass notes only.
  - b. Auto play
    - i. will match the tempo of your song.
    - ii. towers divide, lower area are bass notes
    - iii. mix and match to play chord over a different bass tone
    - iv. tap top of tower to stop.
  - c. Smaller selection of keyboard choices

### Strings – Guitar/Strings/Bass

- 1. Smart Guitar
  - a. Tap chord name to play whole chord, tap strings to play chord tones.
  - b. Autoplay – tap to start and stop
  - c. Kinds of guitars – autoplay style will change, some have effect pedals
  - d. Notes – changes it to the traditional guitar format
    - 1. Can bend the strings
    - 2. Change scale – you lose the fret marks, but easier to improvise
- 2. Smart Bass - works very similar to the Guitar
- 3. Smart Strings – new
  - a. Choice of whole strings section or just certain instruments
  - b. Notes view changes to individual instruments – still sounds like a section, but can tell pitches (only 1<sup>st</sup> position notes)
  - c. Hold the left icon down for pizzicato

### Guitar Amp

Plug in an electric guitar to record directly into GarageBand, then edit and modify the recording. See <http://www.butterscotch.com/tutorial/Getting-Real-Guitar-Sound-On-GarageBand> for directions.

## Audio Recorder

Use for recording vocals or any acoustic instrument

1. Setup
  - a. External mic set up similar to guitar setup (see Butterscotch video) – use the mic jack button to modify settings.
  - b. If using built-in mic, use the VU display to set recording level
2. Record using red button at the top of the screen.
  - a. Turn off the metronome and/or count-in sounds with the tools icon (wrench)
  - b. Tap red button or stop button to stop recording
  - c. Undo to delete the recording
3. Change the sound of the recording with the icons that automatically appear after recording.

## Sampler

The Sampler allows you to create an original sound that can then be used on the keyboard at any pitch.

1. Record a short segment
2. Trim the segment by adjusting the ends of the segment window.
3. Tune the sound if desired
4. Shape the sound if desired
5. Save (or Revert)

## **Recording and Layering**

### Song Set-Up

1. Wrench – tool kit
  - a. Metronome (keeps beat)
    - i. On/off
    - ii. Count-in gives you 4 beats before recording – on/off
    - iii. Choose sound of the metronome
  - b. Tempo – tap to set or use beats/second
  - c. Key of song
  - d. Time Signature
  - e. Fade Out – on/off
  - f. Air Play – Bluetooth – on/off
2. Song sections – plus sign
  - a. Default setting is 8 measures per section.
  - b. Change number of measures per section
  - c. Duplicate sections (will show up with new letter)
  - d. For unlimited measures, turn on Automatic before recording
  - e. Edit and delete sections by choosing Edit song sections.

### Recording

1. Record up to 8 tracks

2. Record in instrument view
3. Timeline – numbers across the top, playhead shows progress.
4. Unless turned off, previously recorded tracks play in the background when recording a new track.

### Track Editing

1. Touch horizontal lines icon to display Timeline view
2. Tap on track to choose track to edit
  - a. Trim by adjusting ends
  - b. Moving by dragging
3. Double-tap on a region to edit
  - a. cut, copy, paste, delete
  - b. Loop causes the segment to repeat until the end of the song section.
  - c. Split by moving scissors to desired place, then swiping down.
  - d. “Edit” in green (instrumental) tracks allows you to edit individual notes.
    - i. Move individual notes by dragging
    - ii. Double-tap on a note to drag it longer, cut, copy, delete, or change the velocity (loudness)
    - iii. Add notes using the pencil icon (slide to activate)
4. Add a track with the plus sign at the bottom of the screen
5. Move back and forth between tracks/instruments with icons at the top of the screen.
6. Unlimited undo back to most recent save.
7. Swipe screen right or left to show other Sections; choose “All Sections” under the plus sign at the end of the timeline to show the entire song at once.
8. Pinch to zoom
9. Slider settings
  - a. Mute – turns off a track
  - b. Solo – turns off all the other tracks
  - c. Track volume
  - d. Track pan – left and right speaker settings
  - e. Echo, reverb
  - f. Quantization
 

Use this to align the rhythm in a recording. 1/1 will align notes to one note per measure. 1/64 will align notes down to a 64<sup>th</sup> note accuracy.

### Loops

1. Timeline view – loops icon
2. Search by instrument, genre, descriptors
3. Drag to timeline – will automatically fill the section.
4. Edit the loop like other regions – if you shorten the loop, it will automatically shorten for the rest of the song.
5. Create your own loops from other snippets you’ve recorded – just tap and choose Loop.

## Sharing

Share GarageBand songs as song files or as GarageBand files to others, your iTunes library, or to your computer.

1. From the My Songs page, choose Edit in the upper right hand corner.
2. Select song to share, then click on the Share icon in the upper left corner.
3. Share Song to Facebook, YouTube, or Soundcloud if you have accounts and want to go public.
4. Share Song Via Mail – a sound file is emailed to the address you choose. The recipient can download the file.
5. Share Song via iTunes: a window opens
  - a. iTunes – will send a sound file to your iTunes library
  - b. GarageBand – will export the file in GarageBand format to File Sharing

## Syncing and Opening Songs

1. Connect your iPad to the computer you sync with.
2. In iTunes, select your iPad, then across the top of your screen choose the Apps tab.
3. Scroll down to File Sharing.
4. Choose the GarageBand app; a list of songs you've exported appears on the right.
5. Choose a file and click "Save To."
  - a. GarageBand files – go to Music>GarageBand
  - b. Music files – go to Music>iTunes>iTunes Media>(folder)
6. To open your GarageBand file, open GarageBand on your computer, then File>Open>(file location)
7. To sync iTunes songs back to your iPad:
  - a. Open and play the song in iTunes (this tells the iTunes library it's there)
  - b. Sync "Recently Added" or the appropriate folder back to your iPad.

## Jam Sessions

Up to four IOS devices can play together in GarageBand

Tutorial:

[http://www.maclife.com/article/howtos/how\\_jam\\_and\\_record\\_group\\_garageband\\_ipad#slide-0](http://www.maclife.com/article/howtos/how_jam_and_record_group_garageband_ipad#slide-0)