



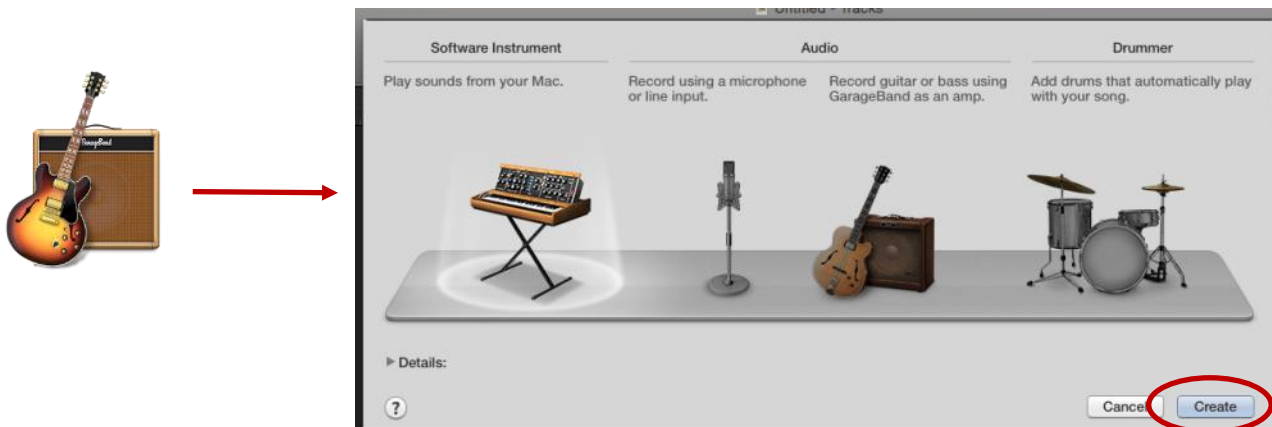
## *Create a song with Garageband*

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Garageband is a music software for Mac products. With a library of virtual instruments and sounds effects, users can create, mix, edit, and share original music.

\*\*Please see MakerStudio@GCLS staff to acquire headphones.

Double click on the Garageband icon displayed on the Desktop. Select **New Project > Empty Project**. When this window pops up, choose a picture, then click **Create**.



## Loops vs. MIDI

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**Loops** are pre-recorded, repeated sounds created by virtual instruments.

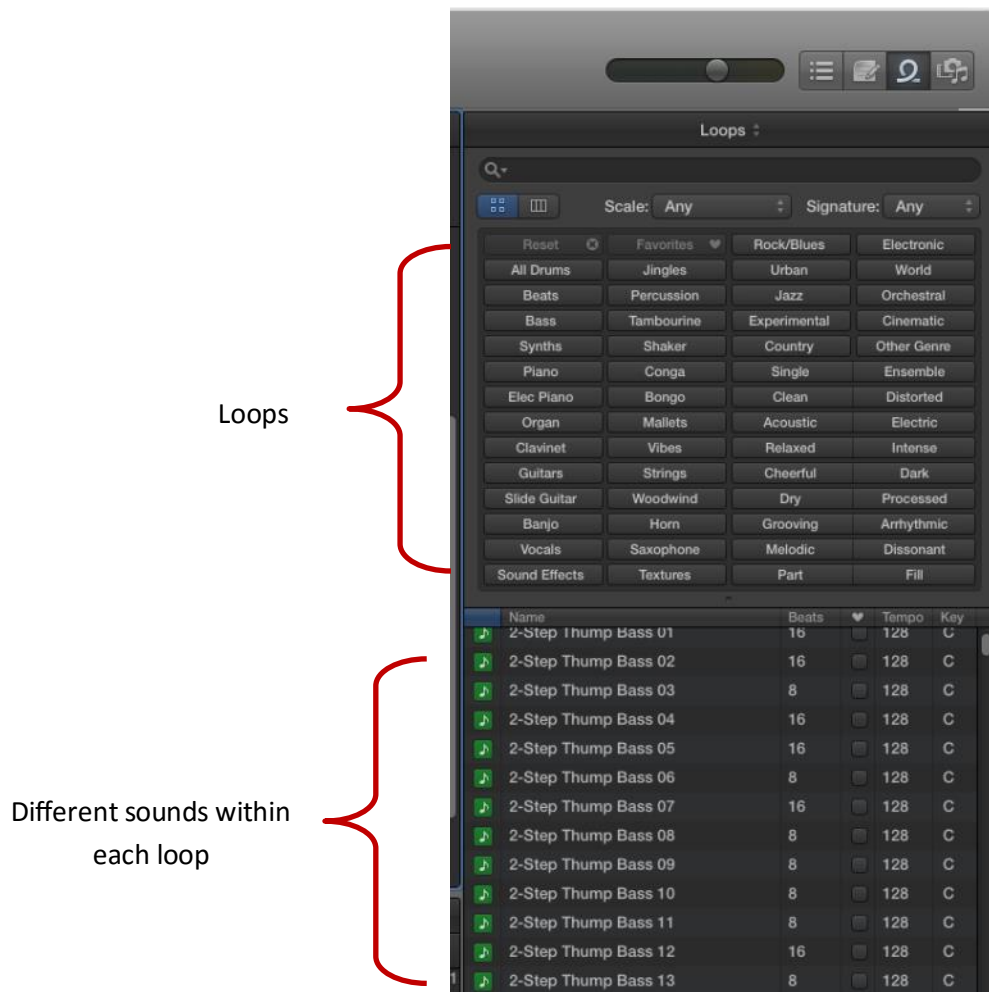
**MIDI** is short for *Musical Instrument Digital Interface*. It basically means you can record voice or instrument through a USB.

You can add loops or record your music to create an original song. Once added, you can edit, remix, and record your musical creation.

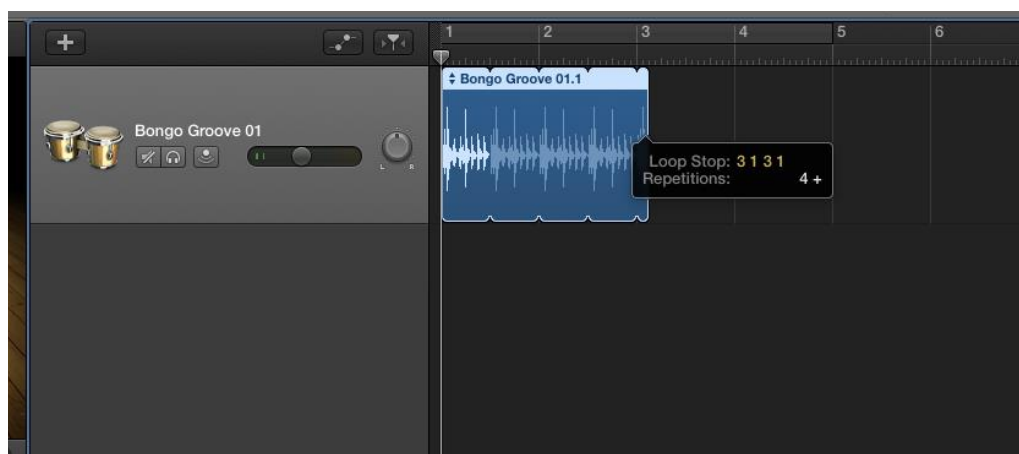
A MIDI keyboard is available to patrons who use Garageband with the iMac.

## A Closer Look: Adding Loops

1. On the right hand side, click the middle icon to search for loops.



2. Click and drag a loop to the middle area.



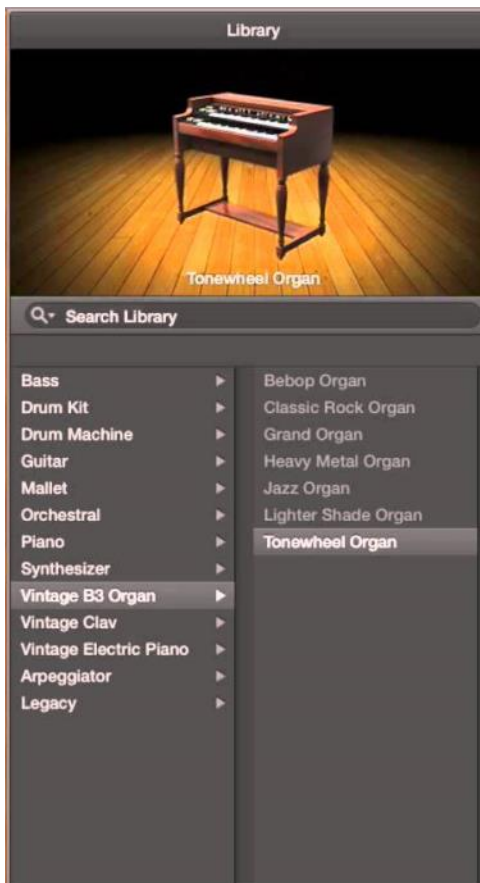
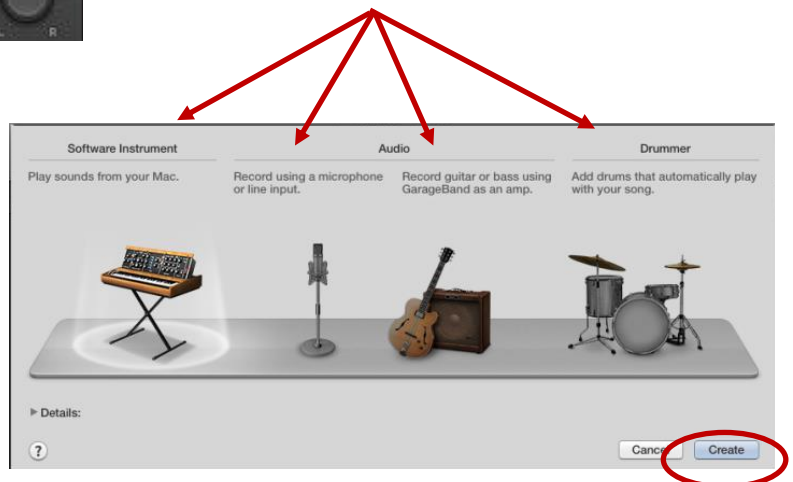
## A Closer Look: Adding MIDI file

**Note:** Before you start, make sure your device and headphones are plugged into the computer. Turn your volume and device on (if your device has a power switch).

Inside the track list, click the white plus sign at the top left corner.



Select one option from below.  
Then click **Create**.

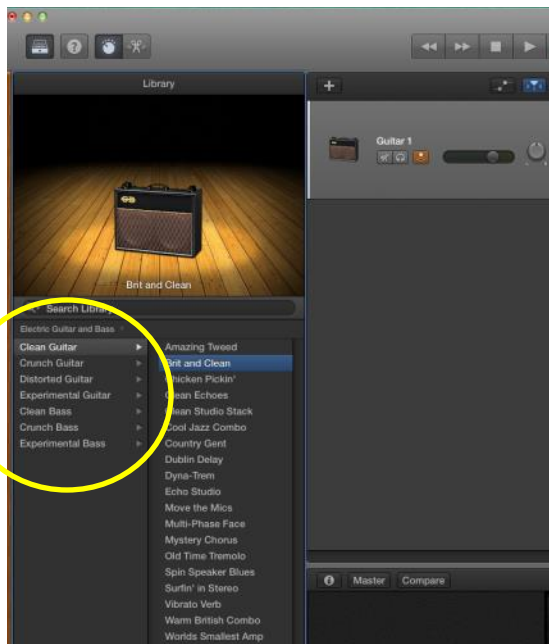
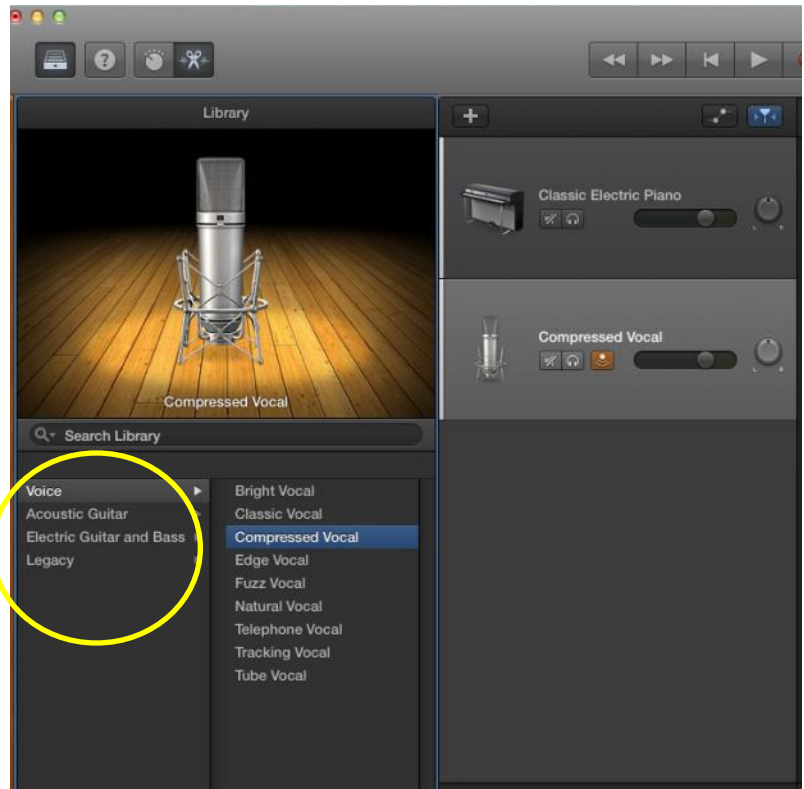


If you select *Software Instrument*, you can choose to play multiple virtual instruments through a keyboard. Select an instrument and sound, then press **record**.

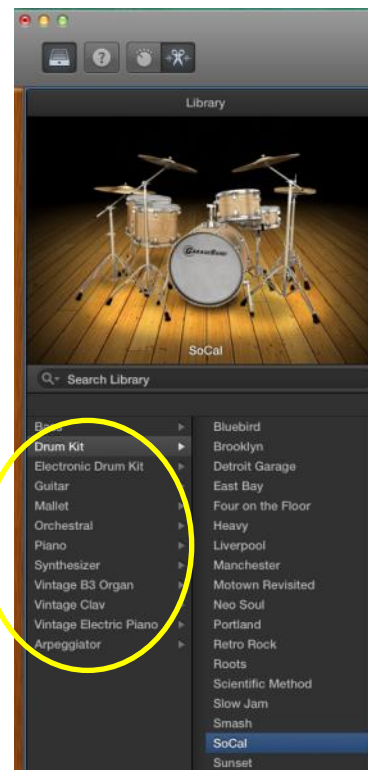


If you select Audio > Microphone, you can select a pre-recorded sound or record your voice via microphone.

Press **record**.



If you select Audio > Guitar, you can select a type of guitar and play via keyboard or record your guitar. Press **record** before playing.



If you select Drummer, you can select a type of drum and play via keyboard or record drums.

Press **record** before playing.

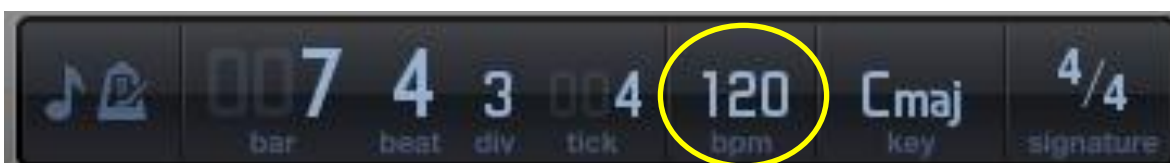
## A Closer Look: Editing a Track



To edit *tempo*, double click on a track. At the bottom, click on the word **Track**. Check **Enable Flex**.



Go to the top and enter a different number in the tempo spot.  
Tempo is how fast or slow you want the song. BPM means beats per minute.

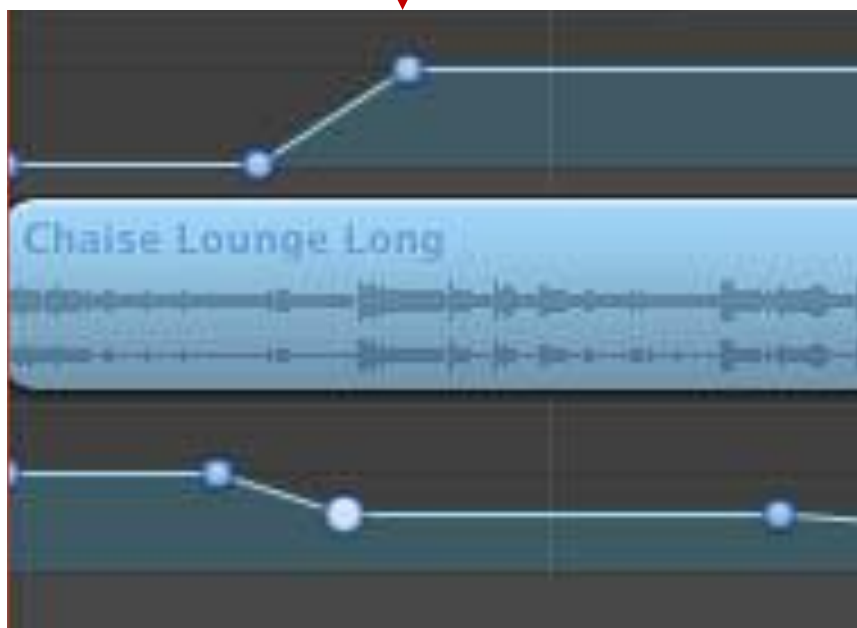


To *fade* in and out, enable **Automation Curves**. Automation curves change volume over time.

Click this button.



Double click on your loop. This will create a point.



Drag your point up  
and down to fade the  
volume.

- **Garageband X: How it Works** by Edgar Rothermich  
REF MAKE 781.3453 ROTHERMICH
- **Garageband tutorials:** <http://help.apple.com/garageband/mac/10.1/#/gbndd5d532f6>

