

Day at a Glance

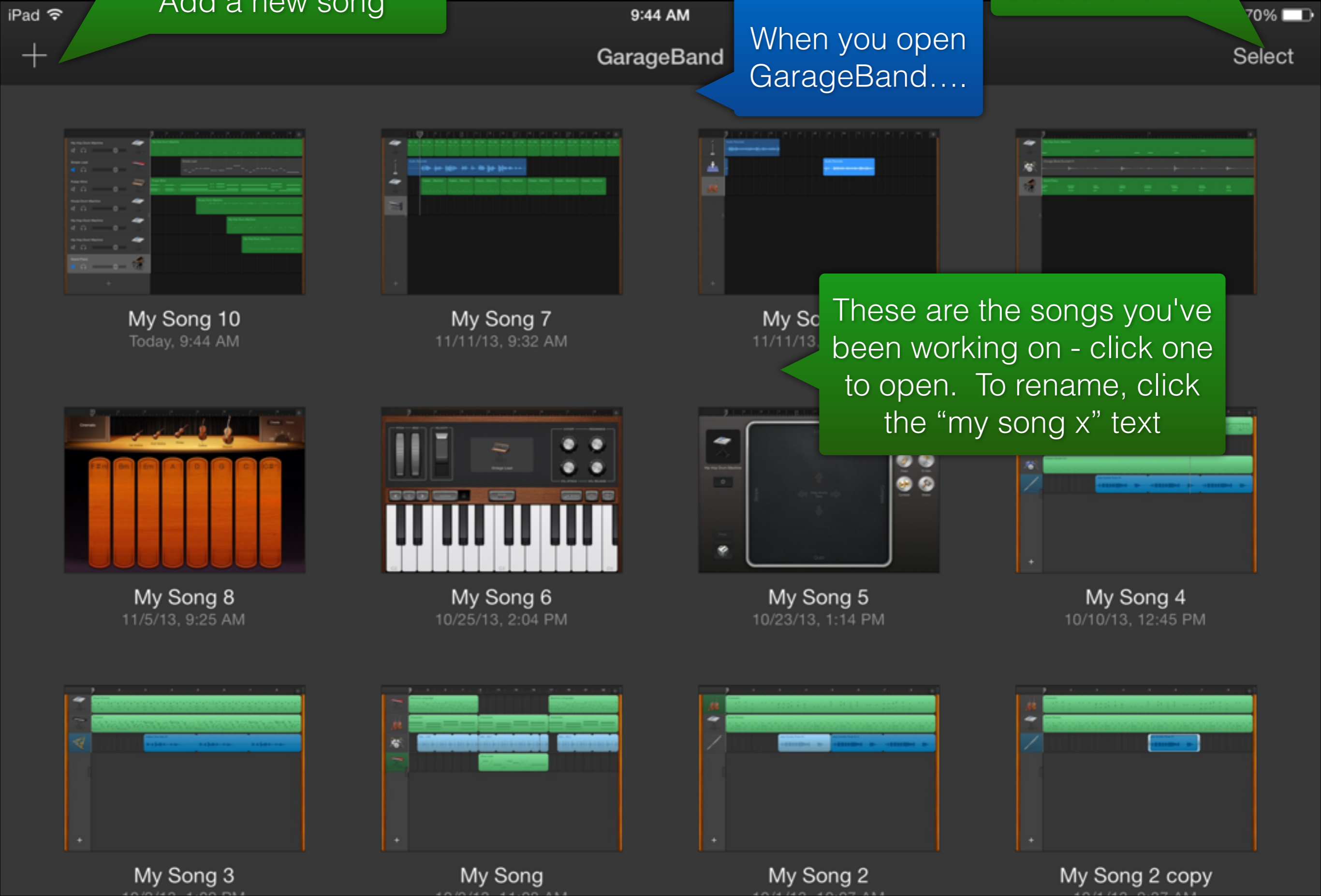
- Overview of GarageBand on iPad
- Create a Loop based composition
 - Chalk talk - ways to use in the classroom
- Create a Smart Instrument based composition
 - Chalk talk - ways to use in the classroom
- Creating practice track using intonation drone tracks
 - Will be demonstrated on mac GarageBand
- Digging Deeper
 - Midi editing & Quantization
- Mics / Recording gear suggestions
- Questions - always available at dcooper@lakeorion.k12.mi.us and @DakotahCooper on twitter
- Other Apps in the music classroom

Add a new song

Delete or share

When you open GarageBand....

These are the songs you've been working on - click one to open. To rename, click the "my song x" text



[< My Songs](#)

Instruments

When you open a new song it takes you to the instruments menu

**Smart Strings**

Tap to play orchestral or solo string parts.

Smart Strings is a string ensemble that helps you play by providing you with intuitive touch screen chord pads

[< My Songs](#)

Instruments

No reason to go through all of these. Basically, smart instruments help you, others don't. Play with them!



Smart Bass

Tap strings to play bass lines and grooves.



Smart Keyboard

Tap chords to create keyboard grooves.

[< My Songs](#)

Instruments



Smart Guitar

Strum an onscreen guitar to play chords, notes, or grooves.

[< My Songs](#)

Instruments



The keyboard gives you a piano with real keys you can play. If you touch the piano at the top you can change to many other keyboard options (synths, organs, etc)

Keyboard

Play an onscreen keyboard with piano, organ, and synth sounds.

[< My Songs](#)

Instruments



Physical drum set that plays when you touch each piece. You can also choose a few electronic drum pads as well.

Drums

Tap on drums to create a beat.

[< My Songs](#)

Instruments



Plug in an electric guitar with iRig or any other adapter and play through virtual amps and stomp boxes

Guitar Amp

Plug in your guitar and play through classic amps and stompboxes.

[< My Songs](#)

Instruments



Record any live sound to listen back.
After recording you can put the
recording through modulators (ala
alvin and the chipmunks)

Audio Recorder

Record your voice or any sound.

[< My Songs](#)

Instruments



Sampler

Record a short sound and the sampler makes a keyboard that plays that sound on each pitch.

Record a sound, then play it with the onscreen music keyboard.

[< My Songs](#)

Instruments



Drum set that helps you produce the beat you hear in your head by using an x-y chart and instrument pictures

Smart Drums

Place drums on a grid to create beats.

Navigation and control icons including a blue guitar icon, a list icon, a play button, a red record button, a volume slider, a music note icon, and a help icon (question mark) with a green arrow pointing to it.

A timeline ruler with markers numbered 1 through 8, and a plus sign icon at the end.

Cinematic

Inside Smart Strings

1st Violins 2nd Violins Violas Cellos Basses

Chords Notes

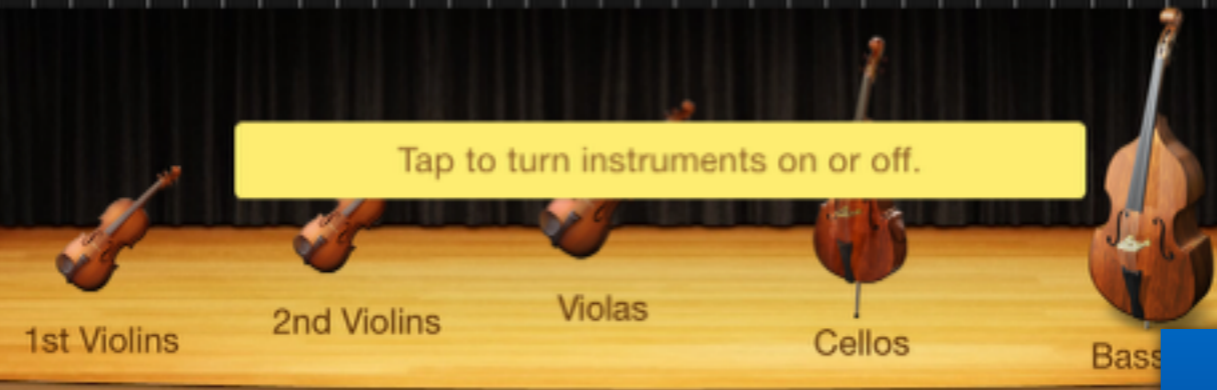
Autoplay control with a slider set to 2, and options for Off, 1, 2, 3, 4.

Em	Am	Dm	G	C	F	B \flat	Bdim

Cinematic

Choose a sound.

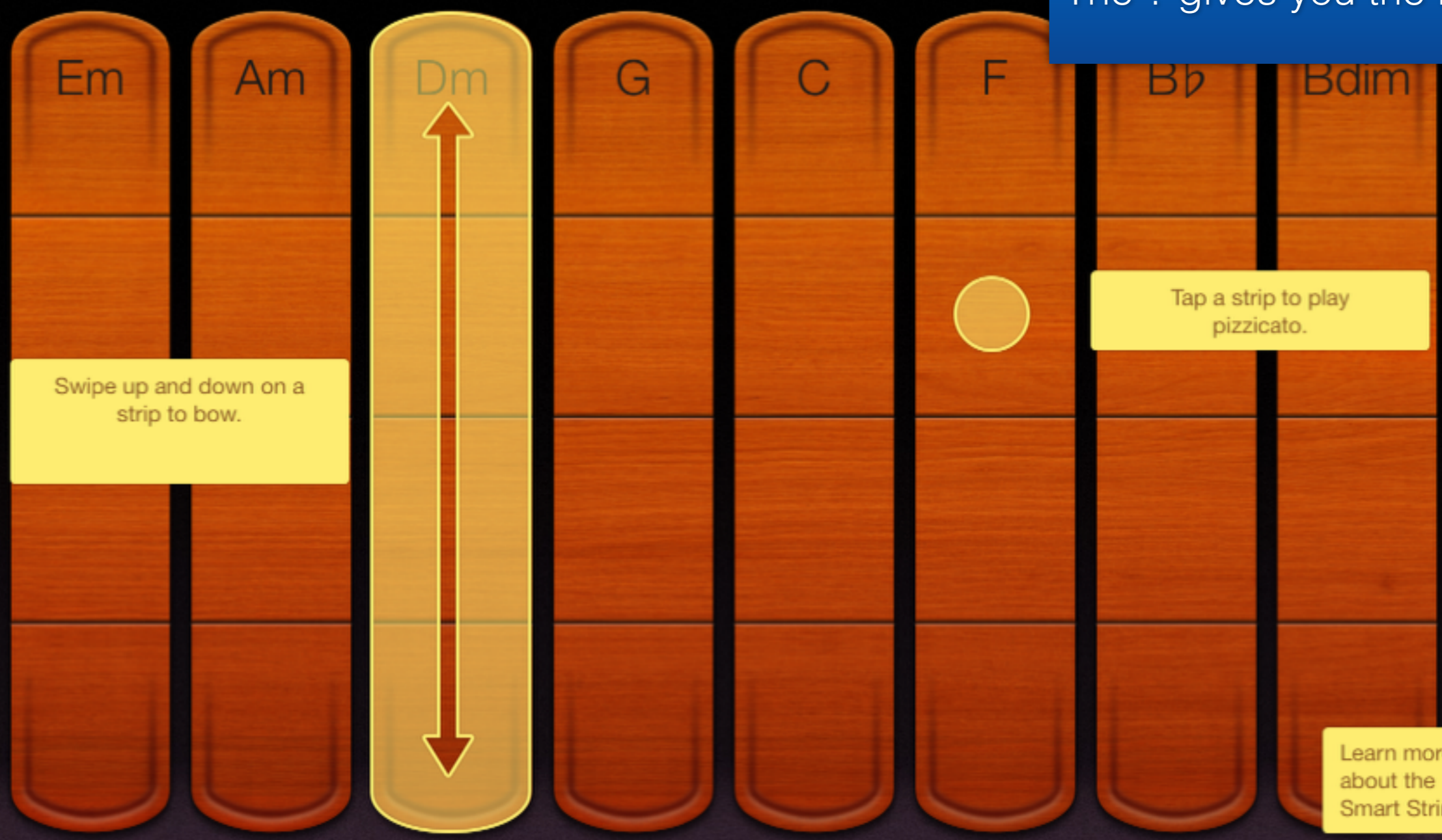
Tap to turn instruments on or off.



Chords Notes



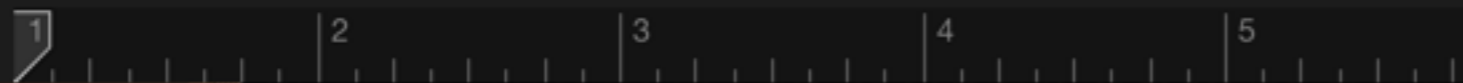
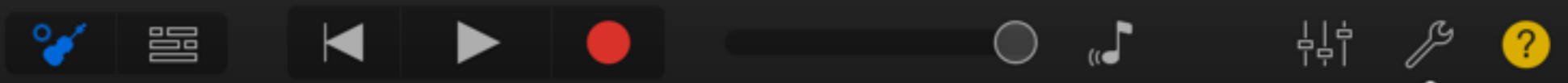
The ? gives you the basics!



Swipe up and down on a strip to bow.

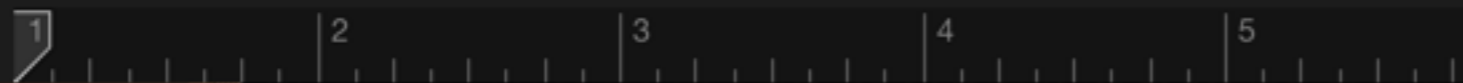
Tap a strip to play pizzicato.

[Learn more about the Smart Strings.](#)




Settings


- Metronome
- Count-In
- Sound Woodblock >
- Tempo 110 >
- Key C major >
- Time Signature 4/4 >
- [Edit Chords](#)
- Fade Out
- Run in Background Off >
- Airplay - Bluetooth





Cinematic

Solo

Track Volume 

Track Pan 

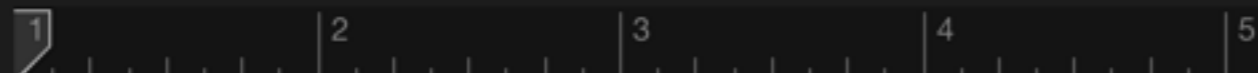
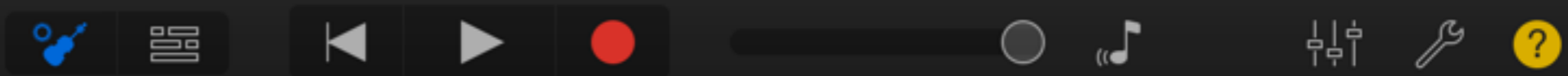
Echo Level 

Reverb Level 

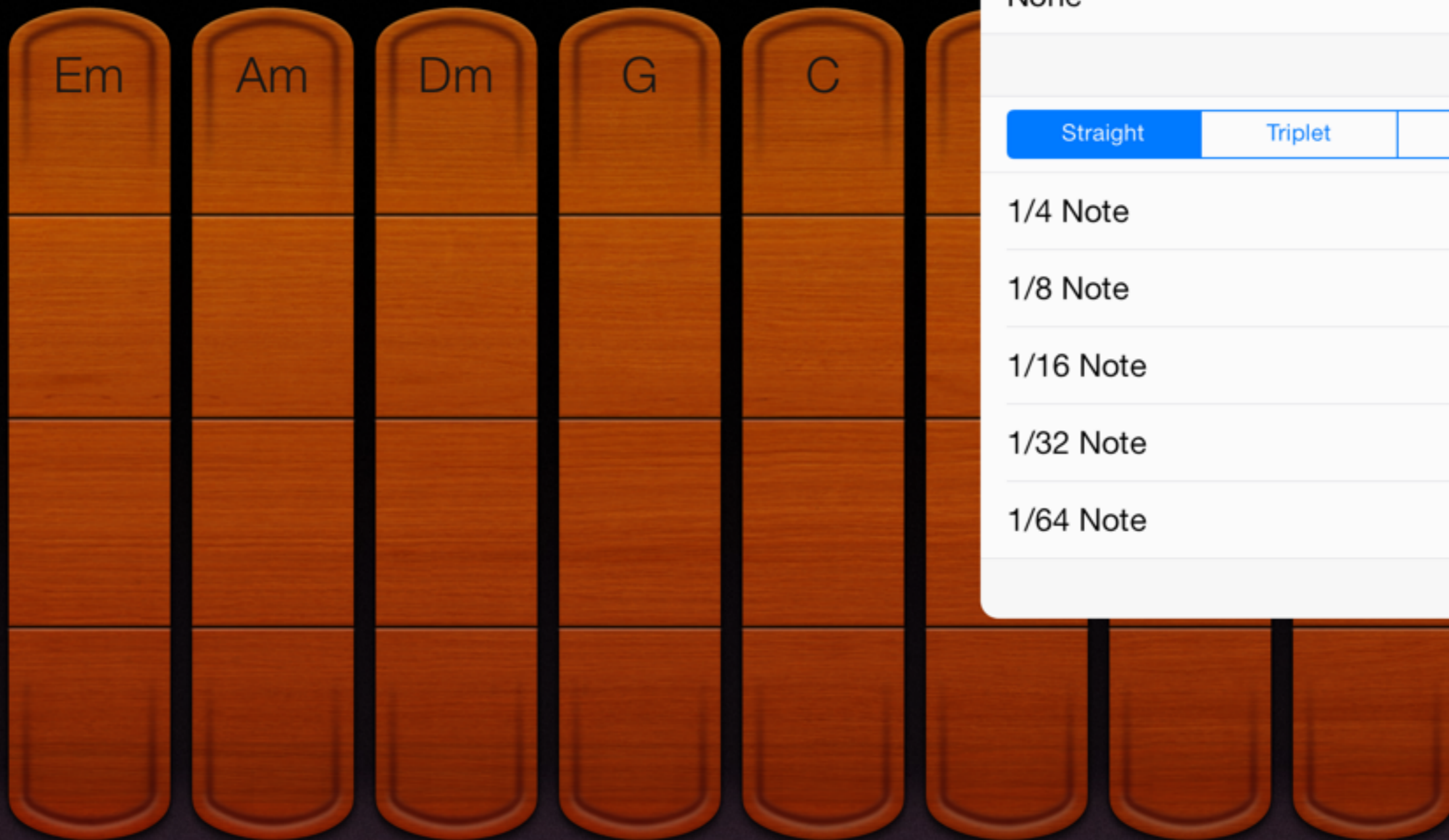
Quantization None >

Merge Recordings

Master Effects >



Cinematic



Back

Quantization

Quantization corrects the timing of notes in your recordings. Straight gives notes a more precise rhythm, while Triplet and Swing give notes a looser feel.

None



Straight

Triplet

Swing

1/4 Note

1/8 Note

1/16 Note

1/32 Note

1/64 Note

My Songs Instruments

Navigation and control icons: guitar icon, sheet music icon, back, play, record, volume slider, mute, undo, equalizer, settings, help.

Timeline with measures 1 through 8 and a plus sign for additional measures.



Instrument selection menu with a plus sign at the bottom and a hamburger menu icon.

Apple Loops Music

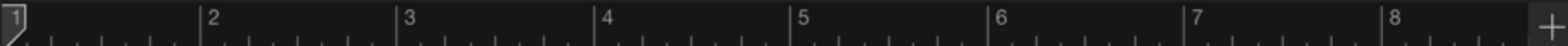
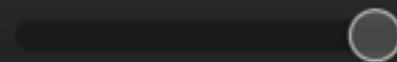
Search Apple Loops

- Instrument >
- Genre >
- Descriptors >

Reset Keywords

- 60s Shuffle Drumset 01 2 bars
- 60s Shuffle Drumset 03 2 bars
- 60s Shuffle Drumset 06 2 bars
- 60s Shuffle Fill 07 2 bars
- 70s Electric Piano 06 2 bars
- 70s Electric Piano 08 2 bars

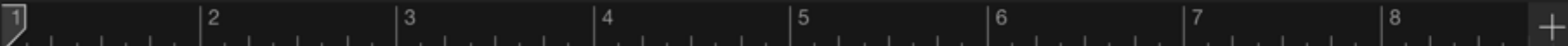
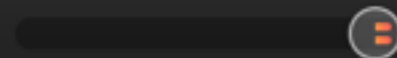
Touch to listen to a loop. When you hear one you want to add click and drag it into your work space



60s Shuffle Drumset 01



My Songs Instruments



Cinematic



60s Shuffle Drumset 01



To edit a loop click it, wait a second and then click it again...



Cut Copy Delete Loop Split Edit Rename

Cinematic



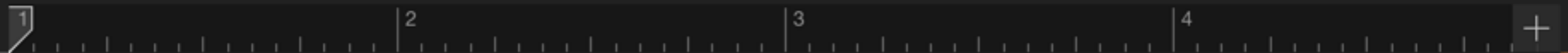
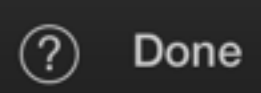
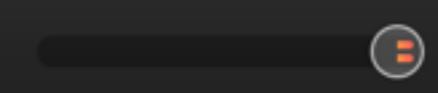
60s Shuffle Drumset 01



Brings up this menu

Edit is only available on midi tracks. Midi tracks are green and recorded audio tracks are blue. If you select edit it will bring up the following page.

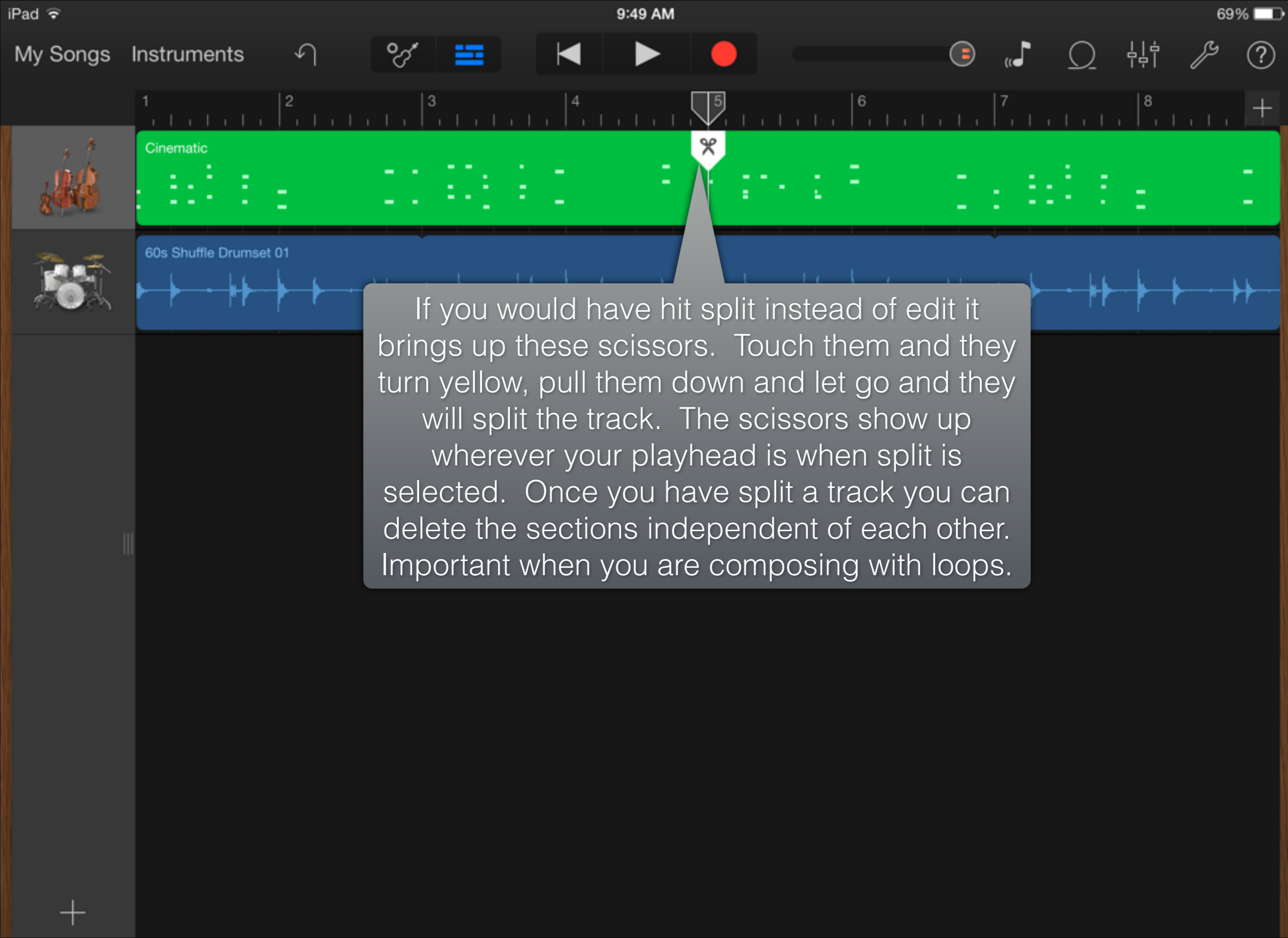




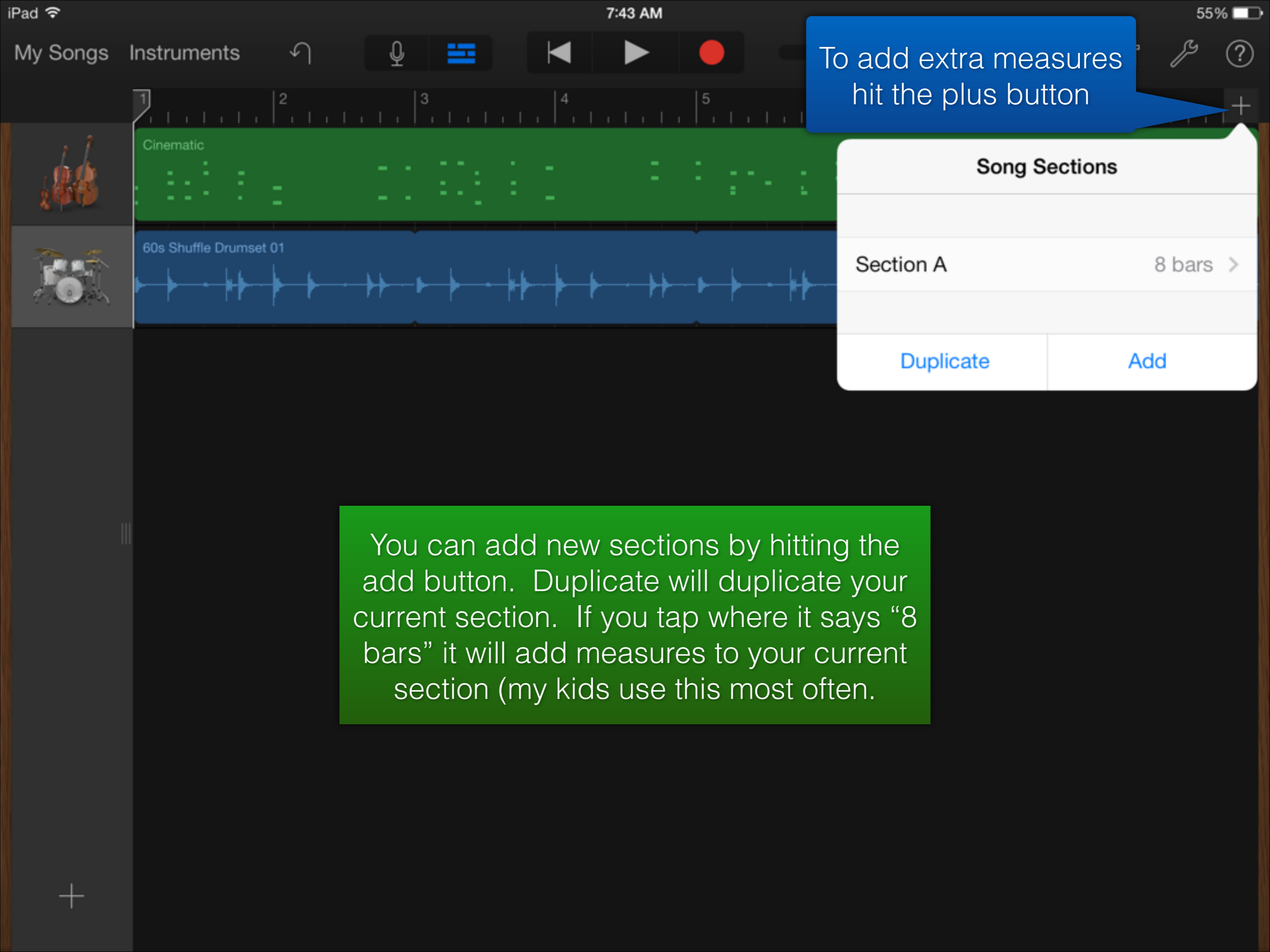
Cinematic

From here you can edit the length and note of each midi note! What mistake?

- A
- G
- F
- E
- D
- C3
- B
- A



If you would have hit split instead of edit it brings up these scissors. Touch them and they turn yellow, pull them down and let go and they will split the track. The scissors show up wherever your playhead is when split is selected. Once you have split a track you can delete the sections independent of each other. Important when you are composing with loops.



To add extra measures hit the plus button

Song Sections

Section A	8 bars >
Duplicate	Add

You can add new sections by hitting the add button. Duplicate will duplicate your current section. If you tap where it says "8 bars" it will add measures to your current section (my kids use this most often).

My Songs Instruments

Cinematic

60s Shuffle Drumset 01

< Song Sections Section Length

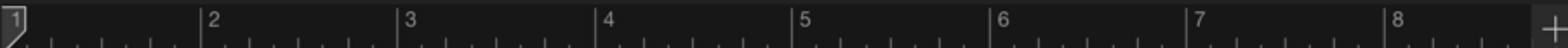
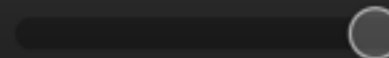
Automatic

Manual 8

Tap the arrows to change the length incrementally, or swipe vertically to change by larger values. Tap "Automatic" to fit the length to your recording.

If you hit "8 bars" this is what your screen will look like. From here you can add measures using the manual buttons or turn on automatic and record whatever you need.

My Songs Instruments



Cinematic

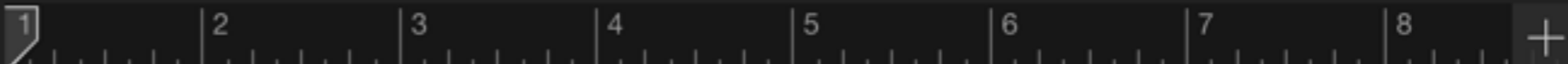
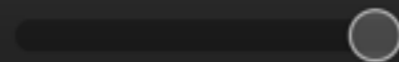


60s Shuffle Drumset 01

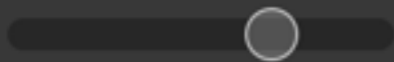


To access track volume touch the three lines and slide to the right

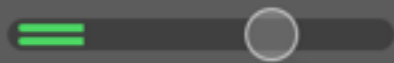




Cinematic



Kits



60s Shuffle Drumset 01



This will change individual track volume.

Listen to only this track

Mute this track



Students have composed using loops in my classroom to show their understandings of...

- Form
- Texture
- Style
- Affect

If you want them....

D D C C G G D D

She's got a smile that it seems to me
Reminds me of childhood memories
Where everything
Was as fresh as the bright blue sky
Now and then when I see her face
She takes me away to that
special place
And if I stared too long
I'd probably break down and cry

Sweet child o' mine
Sweet love of mine

Students have composed using smart instruments in my classroom to show their understandings of...

- Chord structure
- Verse/chorus
- Form
- Texture
- Style
- Affect

Secondary instrumental/vocal applications as I see them...

- Recording and listening back individually or large ensemble (might use a different app for this)
- Use of intonation cd to create a track to help with tuning issues (based on chord progression)
- create background track for sight reading to make kids stay in tempo

MIC/Recording gear suggestions

Interfaces

- PreSonus AudioBox USB 2x2 USB recording interface
\$149
- Apogee One (\$349), Apogee Duet 2 (\$495), Apogee Quartet (\$1,395)

XLR Microphones (these plug into an interface)

- MXL 990/991 combo (one condenser, one pencil mic)
\$118.99
- Blue Microphones Bluebird Cardioid Condenser Microphone - \$299.99

Direct USB Microphones - No interface

Blue Snowball
\$69

Blue Yeti
\$107.97

Blue Yeti Pro
\$190.88

Other apps you should check out

Elementary

- MadPad - record short video and turn these short videos into a drum pad
- SoundBrush - Paint pitch going up and down (different colors make different instrument sounds) and then play back

Other apps you should check out

Secondary

- n- Track Tuner - tuner that tracks pitch as well as timbre via frequency graph
- Voice Record Pro (free as of 11/13/13) don't pay for this type of app

Other apps you should check out

All

- GoodNotes - PDF viewer - you can also draw on them
- Penultimate - Note taker
- Three Ring - Keep track of student data - Google it
AMAZING!
- Aurasma - create trigger images and videos. Ex. You record your soprano section leader singing a piece of music and set that as the video - the trigger image as the sheet music. Any student that follows you will be able to watch that video by opening Aurasma on their device at home and hovering over their sheet music.
- Twitter - be connected - learn together. Find me at @dakotahcooper
- Socrative - Ask students ?'s - get answers in excel sheet