YOU as Digital Author & Composer: the iPad in the music classroom

Brian R Moore
Glenn Korff School of Music
University of Nebraska-Lincoln
Welcome!

YOU as Digital Author & Composer: the iPad in the music classroom

2013 NAfME National In-Service Conference

Brian R Moore - University of Nebraska-Lincoln
Session Description

Many schools and districts have embraced the iPad as a strategy for 1:1 technology initiatives as a means of providing personal and compelling content for students. Music is an area with great practice and promise in iPad adoption and application. Come learn what is possible for music composition and music learning with iBooks, GarageBand and iTunesU. Participants are encouraged to bring their own iPad.

http://music.unl.edu/nafme2013

Brian Moore is a music education faculty member in the Glenn Korff School of Music, University of Nebraska-Lincoln

brian.moore@unl.edu
I currently work with lots of students in using iPads and other technology for music at the University of Nebraska-Lincoln. Specific courses include:

- **MUSC 160 (Music as Art, Discipline & Profession)** - *required course for all freshman music majors* - survey of music history, critical listening, music degree advising - *red2go pilot delivers all course materials via an interactive music textbook being authored by myself and Dr. Anthony Bushard (music history)*

- **MUSC 189H (The 21st Century Artist/Scholar)** - *learning how to compose using the iPad* - targets non music majors in our honors program

- **MUED 343 (Composition Methods)** - *required methods course for all junior music education majors*
Gallery 1.1 Interactive Content - Fall 2013

Multi-touch (interactive) bookshelf for Fall 2013

http://music.unl.edu/nafme2013
Basic GarageBand

1. Multi-Touch Instruments
2. Smart Instruments
3. Sampler
4. Audio Recording
5. Loops

Taken from Apple’s description of GarageBand:

- Play musical instruments on the innovative Multi-Touch keyboard
- Tap out beats with an acoustic and electronic drum kit
- Record your voice using the built-in microphone and apply fun sound effects
- Use the Sampler to create an instrument from sounds you record, then play them on a keyboard
- Conduct an entire string orchestra with just one finger using Smart Strings
- Tap chords to instantly create keyboard grooves with the Smart Keyboard
- Strum chords on an acoustic and electric Smart Guitar, trigger fingerpicking patterns for popular chords, or switch to Notes view to try your hand at the real thing
- Groove with a variety of Smart Basses using upright, electric, and synth sounds
- Drag drum instruments onto a grid to create your own beats with Smart Drums
- Start a Jam Session with your friends
- Use your iPad, iPhone, or iPod touch to play or record live over Wi-Fi or Bluetooth with up to three of your friends
Advanced GarageBand

1. Sharing Compositions
2. Jamming via Bluetooth
3. Creating Original Loops

Sharing Compositions

Songs can be shared as GarageBand files (suitable for other iPads via a Mac, or for any Mac) and/or as audio files (for any computer). From the “My Songs” screen, touch the Select button - this will let you select any song and share it using the action button. Sending to iTunes will be the most often used option as this will let you get

http://music.unl.edu/nafme2013
to the file via your computer, iTunes and USB cable via iTunes’ “File Sharing” feature.

**Jamming via Bluetooth**

Multiple iPads can jam together on the same GarageBand song... This is usually accomplished via Bluetooth. It is very simple to setup and use. Please refer to the Gallery for screenshots.

**Creating Original Loops**

Any piece of music that you create on the iPad can become a source for a loop. When you share your music as an audio file to iTunes, it will appear in the loop menu under the category called “Audio Files”.

**Gallery 2.2 Jamming with multiple iPads**

Tap the jamming icon (the eighth note) on the menu bar

**Gallery 2.3 Loop Options**

Apple Loops
Examples

Since we are talking about you as a creator of instructional materials (author) and music (composer), some examples of various approaches are presented here in order of complexity to create (simple to complex)
Music Example 1 (GarageBand)

- You have created a piece of music via GarageBand - It is just a ‘drag & drop’... NOTE: Make sure you save your document with the “iLife Preview” option!

http://music.unl.edu/nafme2013
Media Window in iBooks Author
Music with Notation

Music Example 2 - Notation

- Using your favorite notation software, export the written score AND the audio playback. You can then drag the audio file onto iBooks Author...

- NOTE: saving a portion of a screen to create the image can be done a few different ways...

  🌟 Key shortcut... Command-Control-Shift-4 (you’ll get a cursor... draw a rectangle - it is now copied ready for you to paste)
  🌟 Grab - graphic application in your Utilities folder
  🌟 Export from your notation software - please check your manuals!

http://music.unl.edu/nafme2013
Example 1 Tap to hear the scale...

Example 2 Same Scale with Drums
Music with Images

- If your image (photo) is already in iPhoto, you are able to use the Media Window to drop in the desired picture.
- Example (Audio) 1 uses music with an image and a title. The other image with text does NOT have a title, with audio that is ‘looped’ - simply tap the picture to start/stop the music.

Come on - YOU can do this... really you can!

http://music.unl.edu/nafme2013
Example (Audio) 2 Brian’s Song

**Sample Song with Scrolling Score**

**Brian's Song**

- **Melody**
- **Bass Line**

**The Opening...**

- - -
Movies

Again, if you have your movies ‘saved to the Media Browser’ you have easy access. Of course you actually have to *make* your movie!
Keynote & Widgets

Keynotes and Widgets

- The most interactive and most technically demanding approach is through Keynote and Widgets.

Example 4 Giga from Partita in B flat - BWV 825

This version has different instruments for each of the three parts whereas the original is played by a single pianist.
Example 5 Invention No. 4 in D minor, Johann Sebastian Bach, BWV 775
iPad Basics

Welcome to the iPad for teaching and learning! While there are lots of resources available, we will focus primarily on aspects that will help you in the music classroom by creating content especially for music composition.

But what model of iPad do I have?

Click Here

Getting Started... an iPad “out of the box” works fine but you will need/want to have the following ready...

- An Apple ID (used to purchase apps from the Apple App Store INCLUDING any apps that are free). You can create one from an iPad - instructions here...
- Think what other devices (if any) you want to ‘sync’ your iPad with including a Mac computers (OSX), a Windows computer, and/or an iCloud.com account.
Resources on the iPad

Books on the iPad

1. Here are some free books available via the iBooks application on your iPad.
3. Another resource that discusses various education technologies is http://www.apple.com/education/ipad/teaching-with-ipad/
4. To view help directly from the iPad, you can use this web link (via Safari) http://help.apple.com/ipad

Lecturing with an iPad

iPad for Students (1:1)

iPad @ Work - Vol 2 (iBook by Apple)

iPad @ Work (iBook by Apple)

iPad User Guide (iOS 6) (from Apple) as iBook

iPad User Guide (iOS 7) (from Apple) as iBook
IMPORTANT TOPICS

• At A Glance > Overview
• At A Glance > Using the Multi-Touch screen
• Basics (note location of AirPlay button if available)
• App Store > Store Settings
• iBooks
• Settings

http://help.apple.com/ipad
Where to go from here?
On Tuesday, October 21, 2013 Apple made several hardware and software announcements that have implications for music teaching and learning (in a positive way!) New models of the full size iPad (iPad Air) and the iPad mini (including a retina’ display version) were announced as well as the next version of the Macintosh Operating System (OS X) now named Mavericks. There is a shift towards software that can create, edit and share content across multiple platforms and devices. New versions of the following Apple software was announced (and is available now)...

- Mavericks - for Macs only - required for any and all of the following updates...
- GarageBand - Mac and iOS - music creation
- iMovie - Mac and iOS - video creation
- iPhoto - Mac and iOS - photo editing and management
- Pages - Mac, iOS and Windows (web) - word processing & page layout creation
- Keynote - Mac, iOS - presentation creation
- Numbers - Mac, iOS - spreadsheet creation

GarageBand for iPad
GarageBand for Mac
iTunes for Mac or PC
• iTunes - Mac and Windows - *music and movie playback, format conversion, music excerpts and comments (lyrics) and album art*

• iBooks Author - Mac - *Multi-touch content creation for iPads*

*All of these software titles are now free for new hardware purchases - prior to Oct 21, 2013 each item was $4.99 to $19.99... Upgrade paths appear to be possible at this time IF your Macintosh had any previous versions of iWorks (Pages, Numbers, Keynote) or iLife (GarageBand, iPhoto, iMovie)*