

Resources on Creating a Whiteboard Animation

Using the DMC Equipment and Facilities

- Option I
 - a. Equipment:
 - i. a camera
 1. a DSLR camera such as [Canon T3i](#) or [Nikon D3300](#) will work the best. Use it in **manual recording mode**. Watch [this Canon T3i video tutorial](#) to learn how to record video using Canon T3i. Refer [this Nikon video tutorial](#) to learn how to record video using Nikon D3300.
 2. a [Canon M500](#) will work too. However, it doesn't have a fully manual recording mode, which makes it hard to prevent exposure value from changing while you are drawing.
 - ii. a tripod
 - iii. two Panel lights
 - b. Setup: Mount the camera on the tripod, make the camera facing down. Make the panel lights facing downward. Try to make the light even on the white piece of paper to avoid shadows when you are drawing.



- c. Use the DMC Video Studio or a nice place to record your drawing on a white piece of paper.
- Option II
 1. Equipment:
 - a. a webcam
 - b. a computer
 2. Setup
 - a. connect the webcam to a computer, make it face downward.
- Then use the DMC Audio Studio to record your voice over narration. Use iMovie or Final Cut Pro to edit. Use fast motion (i.e. faster speed) to create animated effect of drawing.

Using Regular Software Tools

1. PowerPoint
2. OneNote + a screen capture tool such as OBS or Quicktime player
3. AfterEffects+Blender

Using a Dedicated Whiteboard Animation App

1. **Show Me** <https://itunes.apple.com/us/app/showme-interactive-whiteboard/id445066279?mt=8&ls=1> this is the app Ruth Long, a DMC patron, used in her video that won a trip to BP field trip https://youtu.be/uYZ_dloxoNA. The free version has no way to save a drawing video to iPad, then transfer it to computer for further editing. The paid version will have full features. Here is the pricing page <https://www.showme.com/pricing>. It is subscription based, per month or per year. DMC doesn't have the subscription.
2. **Animation Creator HD** <https://itunes.apple.com/us/app/animation-creator-hd/id363201632?mt=8> \$3.99. We have experience with this app and the DMC guide on using this app is available at <https://wiki.rice.edu/confluence/display/DMCGUIDES/Whiteboard+Animation+via+Animation+HD>.
3. **Animation Creator HD Express** <https://itunes.apple.com/us/app/animation-creator-hd-express/id380381736?mt=8> free. This is John Haug, an ELEC305 student, used in his video of ELEC305 video project in Spring 2015. We are not sure he used the free version or the paid version. Sample clip is available at <https://youtu.be/NmhU2BetJKA?list=PLG2Jx49pBj9Gd4Zi1uPoN3licgBFYsVyG>

4. **VideoScribe** <http://www.videoscribe.co/>. subscription based \$12 per month <http://www.videoscribe.co/buy>. We have seen DMC patrons use it in this video <https://youtu.be/FCFW0ljxTP4?list=PLG2Jx49pBj9Gd4Zi1uPoN3licgBFYsVyG>. Since it is subscription based, the DMC doesn't have it either.
5. [Creating Animations with Adobe Flash](#)

Using Apple Devices

Record Your iPhone or iPad Screen Over Lightning With Your Mac That is Running on Yosemite

This method requires you that you have iPad air, the newer version and a Mac computer running on the latest OS Yosemite.

1. a Mac running OS X Yosemite
2. an iOS device running iOS 8 or later
3. a Lightning cable to connect them.
4. Your iOS device needs to have "trust" with the Mac you'd like to use for recording
5. QuickTime player, File->New Screen Recording, select the iOS device
6. Click the record button

Note: All the DMC computers are running on OS 10.9 Mavericks, not OS 10.10 Yosemite.

References:

1. Record Your iPhone or iPad Screen Over Lightning With Your Mac That is Running on Yosemite <http://www.makeuseof.com/tag/record-iphone-ipad-screen-lightning-mac/>.
2. New in OS X Yosemite: Record Your iPhone or iPad Screen with QuickTime <http://www.tekrevue.com/tip/record-iphone-screen-quicktime/>
3. Mac OS X Hidden feature in Yosemite - Mirror your Iphone or Ipad on your Mac Screen CC <https://youtu.be/hjoLUX7zdoQ>

Other animation tools

1. GoAnimate: https://goanimate.com/?ref=hf-2528&hf_tran_id=102dd9e8b369b1bb576650d45b7288
 2. Moovly <https://www.moovly.com>
 3. [Character Animator](#). A very user-friendly animation tool built in within After effects.
 4. PowToon <https://www.powtoon.com/>.
- e.g. [Association of Professors of Gynecology and Obstetrics \(APGO\) https://www.youtube.com/channel/UCB67eiHQzqqLUBHrDJzYdtQ/feed](https://www.youtube.com/channel/UCB67eiHQzqqLUBHrDJzYdtQ/feed)