

#### Overview

Using affordable software and hardware, traditional classroom lectures and presentations can be quickly recorded and made available to students through D2L. The recording captures both video of the classroom and projector. D2L is used to automate the process, and enhance the course experience.

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# In case you were wondering...

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#### But I live in Chicago



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#### Contact Information





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• Email: jmoore@depaul.edu





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condor.depaul.edu/jmoore/d2l-rug-2012/

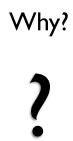




#### Problem

Want to faithfully capture classroom experience and make available to students

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Teach Better (hopefully) **Lower Cognitive Overload (for students) Course Review Cover Student Absence** 

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#### My Constraints

- Non-networked
- Portable
- Self-supporting
- Efficient
- Flexible
- Works with D2L

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## My Solutions







Basic Podcasting

Vodcasting

**Pencasting** 

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### Portable & Cheap



#### **Basic Podcasting**

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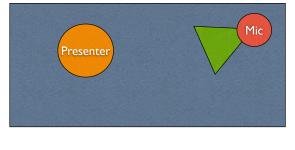
#### Prices vs Storage

- 2GB: \$30 approx. 10-12 hours
- 4GB: \$35 approx. 20-24 hours
- 8GB: \$55 approx. 40-48 hours



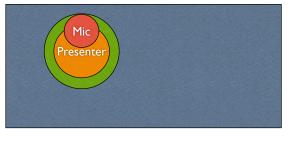
www.sandisk.com

## Fixed Microphone Problem



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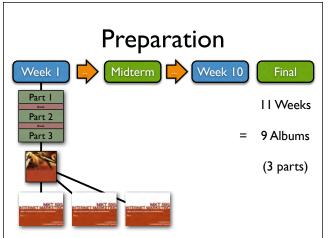
## Fixed Microphone Problem

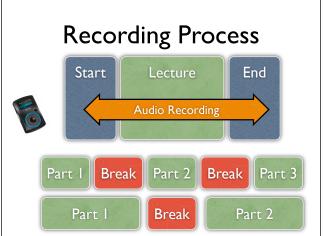


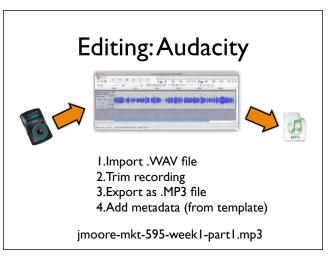
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#### Change Behaviour

- Decide what you will record
- Repeat/rephrase question
- "Let me repeat that your observation/ question was..."
- Tell students (in the syllabus) that you record classes
- And that technology can always fail...

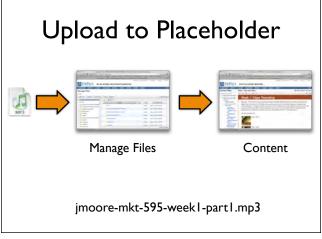






# File Sizes (I Hour) WAV 175MB MP3 50MB

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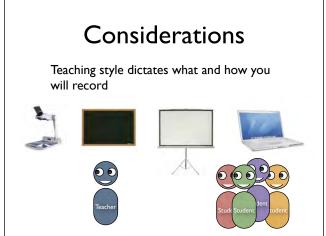
### Backup Method



If all else fails I have an audio recording

# Vodcasting

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#### What I Want To Record

Most Important



(non-ambiguous)

Less Important



Context (non-verbal / nuance)

#### Example Vodcast



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#### Software

Linux	Mac OS X	Windows
recordMyDesktop (free)	ScreenFlow (\$90)  Camtasia (\$105)	Camtasia (\$179)



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### Filming Wirelessly

- BT-1 Bluetooth Webcam
- 15 fps
- 3 to 10 meters (can be extended)
  - \$150

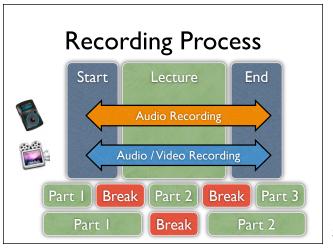


www.bt-1.com















- I.Open ScreenFlow file
- 2.Offset BT-I Camera by 0.5 seconds
- 3.Trim recording
- 4.Add credits (images at start/end)
- 5.Export as .M4V file (or .MOV)
- 6.Add metadata (from template)

#### File Sizes (I Hour)



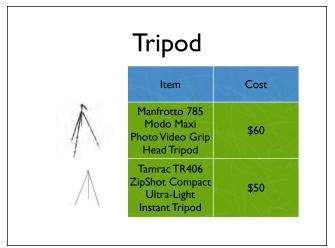


ScreenFlow	850MB to 1.5GB
MOV	250 to 350MB
M4V	180 to 280MB

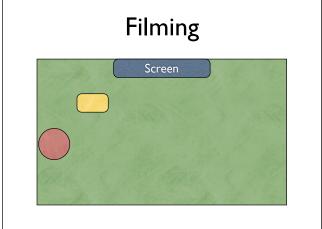
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#### **Desktop Tripod**









#### **Pencasting**

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#### Livescribe Echo

- \$100: 4Gig / \$150: 8 Gig
- Sold at Target and Amazon
- www.livescribe.com
- Smartpen
- Founded by Jim Marggraff (ex-LeapFrog)



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# Basic Parts Microphones Audio Jack Speaker

## Dot Paper

- Works like GPS
- Users will are able to print their own paper
- Pen uses ink that does not register with the infra-red camera

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### Pencast: Paper Replay



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# Papershow







Starter Kit: Approximately \$100

### Papershow Example

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#### Q&A

(Thank you!)

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#### **Contact Information**





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- Email: jmoore@depaul.edu
- URL: condor.depaul.edu/jmoore/



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# Classroom Lecture Capture on the Cheap Elgin Community College Friday, October 19, 10:25 - 11:25 am James Moore

condor.depaul.edu/jmoore/d2l-rug-2012/

Appendix

#### Vado or Flip

#### Flip

Best video quality Winner in terms of design and ease of use Only worth considering if filming I hour or less

#### Vado HD

Best overall

Can be used (with breaks) to film a 3-hour class Recommend you purchase spare batteries

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#### Vado Total Cost Cost Item Vado HD \$220 Battery Charger \$30 Battery (2 spare) \$30 (\$15 each) \$280

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