

BAREFOOT VODCASTING

Comprehensive lecture capture without support

25th Annual Conference on Distance Teaching & Learning
(half-day workshop PM-05)

Wednesday, August 5, 1:00-4:00 pm

James Moore
www.depaul.edu/~jmoore

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Abstract

Learn how to vodcast 'barefoot' — recording face-to-face lectures, workshops, and presentations without IS/IT support.

Using simple tools and techniques, classes can be recorded and then broadcast from any location in the world.

The equipment is low-cost and easily carried in a laptop bag.

Vodcasting can transform the effectiveness of blended classes and enhance the learning experience.

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Plan



Barefoot Vodcasting

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James Moore

Director of Online Learning - College of Commerce

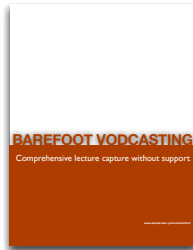


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www.depaul.edu/~jmoore/barefoot

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www.depaul.edu/~jmoore/barefoot/



Blog: PDFs, videos, examples

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Before We Begin



1:00 - 4:00 p.m.

Part 1
Break
Part 2
Break
Part 3

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Icebreaker



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Problem

Want to faithfully capture classroom
experience and make available to students

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Why?

?

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Classroom Capture



Podcast Producer 2
www.apple.com/server/macosx/



Sonic Foundry Mediasite
www.sonicfoundry.com



Tegrity Campus
www.tegrity.com



Panopto Socrates CourseCast
www.panopto.com

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My Constraints

- Non-networked
- Portable
- Self-supporting
- Efficient
- Flexible

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Barefoot



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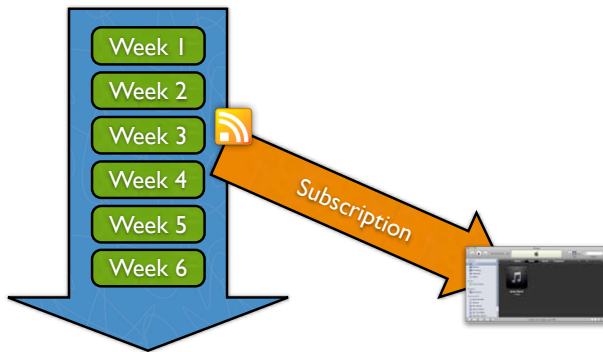
Podcast



Regular Subscription

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Subscription



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Podcasts

3 Types

Podcast	Audio	Plays on any MP3 player (and iTunes/QuickTime)	.mp3
Enhanced Podcast	Audio Slideshow	iPod with screen (and iTunes/QuickTime)	.m4a
Video Podcast (Vodcast)	Video	iPod with screen (and iTunes/QuickTime)	.m4v .mp4

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My Solutions



Basic Podcasting



Vodcasting



Pencasting

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Plan

1. Explanation
2. Demonstration
3. Recap

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Basic Podcasting

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Sansa Clip



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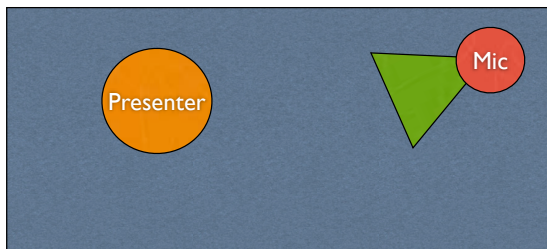
Prices vs Storage

- 1GB: \$30-35 approx. 5-6 hours
- 2GB: \$35-45 approx. 10-12 hours
- 4GB: \$45-65 approx. 20-24 hours
- 8GB: \$60-80 approx. 40-48 hours

www.sandisk.com

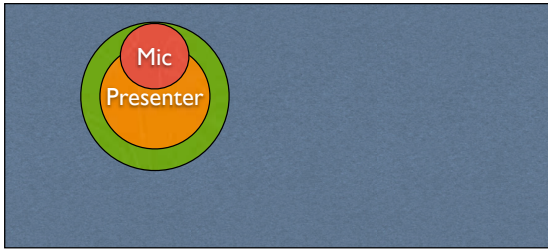
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Fixed Microphone Problem



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Fixed Microphone Problem



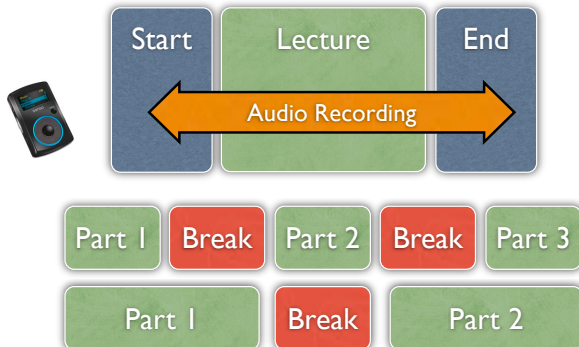
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Change Behaviour

- 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...

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Recording Process



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Editing: Audacity



- 1.Import .WAV file
- 2.Trim recording
- 3.Export as .MP3 file
- 4.Add metadata (from template)

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Audacity



Mac OS X - Microsoft Windows - Linux

<http://audacity.sourceforge.net>

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Naming Conventions

- jmoore-mkt-595-week1-part1.mp3
- jmoore-mkt-595-week1-part1-2009.mp3
- jmoore-mkt-595-301-week1-part1-2009.mp3


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Metadata

- **Title:** MKT 595 Week I Part I
- **Artist:** James Moore
- **Album:** MKT 595 Week I
- **Track Number:** I
- **Genre:** Education
- **Comments:** Class Recording (for more information visit <http://www.depaul.edu/~jmoore/>)

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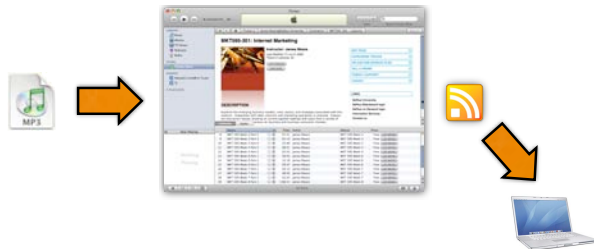
File Sizes (1 Hour)



WAV	175MB
MP3	50MB

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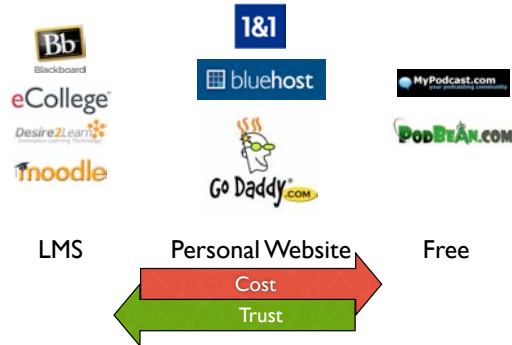
Upload to iTunes U



iTunes U is not the only option,
but it is free and easy to use

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Alternative Distribution



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Backup Method



If all else fails I have an audio recording

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Demonstration & Recap

Basic Podcasting

Vodcasting and **Pencasting** still to come...

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Vodcasting

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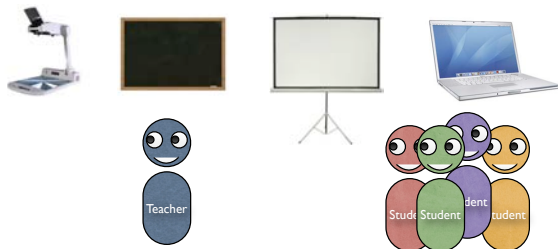
Reminder:Vodcasting

Podcast	Audio	Plays on any MP3 player (and iTunes/QuickTime)	.mp3
Enhanced Podcast	Audio Slideshow	iPod with screen (and iTunes/QuickTime)	.m4a
Video Podcast (Vodcast)	Video	iPod with screen (and iTunes/QuickTime)	.m4v .mp4

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Considerations

Teaching style dictates what and how you
will record



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And here it gets more complicated...

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What I Want To Record

Most Important



Content
(non-ambiguous)

Less Important



Context
(non-verbal / nuance)

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Software

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



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Basic Equipment



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Zoom H2



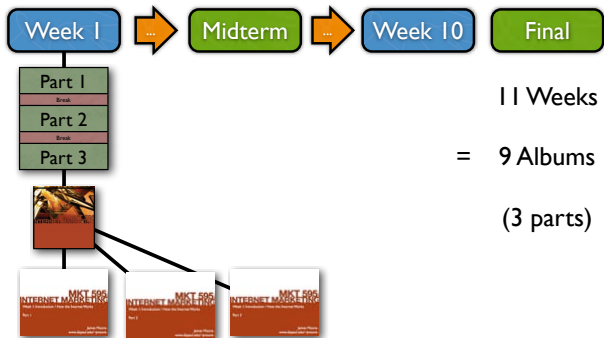
www.samsontech.com
Approx: \$150



Shielded USB Cable
Approx: \$5 - \$10

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Preparation



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Images



Course Artwork



Presentation Titles
Weeks 1 - 4
Weeks 6 - 10

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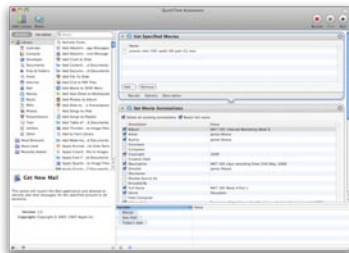
Metadata Template

Naming Convention:	jmoore-mkt-595-week-1-part-1-2008.m4v
Album:	MKT 595: Internet Marketing Week 1
Artist:	James Moore
Author:	James Moore
Copyright:	2009
Description:	MKT 595 class recording from 25th May, 2009.
Director:	James Moore
Full Name:	MKT 595 Week 1 Part 1
Genre:	Education
Information:	For more information visit: http://www.depaul.edu/~jmoore/mkt595/
Producer:	DePaul University
Track:	MKT 595 Week 1 Part 1
URL Link:	http://www.depaul.edu/~jmoore/mkt595/



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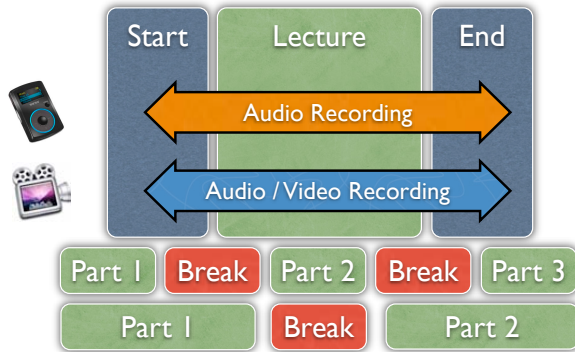
Automator



<http://www.apple.com/downloads/macosx/automator/>

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Recording Process



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ScreenFlow



1. Open ScreenFlow file
2. Trim recording
3. Add credits (images at start/end)
4. Export as .M4V file (or .MOV)
5. Add metadata (from template)

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Upload to iTunes U



iTunes U is not the only option,
but it is free and easy to use

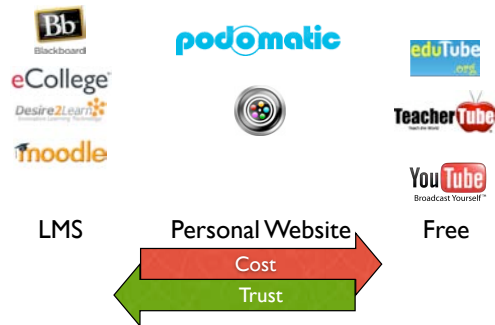
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Notes

- Redundancy
 - Two recordings (audio and video)
 - Can import audio recording into Screenflow
- ScreenFlow encodes immediately
- ScreenFlow offers powerful editing functions

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Alternative Distribution



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EduTube

- Up to 200MB
- Privacy through Groups



<http://edutube.org>

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TeacherTube

- No limit on filesize
- Allows embedding



www.teachertube.com

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YouTube EDU

- No length restrictions
- Up to 1GB
- “Qualifying 2- and 4-year degree granting public and private colleges and universities”



www.youtube.com/edu

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blip.tv

- Free & Paid (\$8 per month)
- Up to 1GB
- Hidden videos (Pro)



<http://blip.tv>

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podOmatic

- Free & Paid (\$9.99 or \$14.95 per month)
- 15 / 100 / 200 GB bandwidth



www.podomatic.com

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Others....

- Ooyala
www.ooyala.com
- Veoh
www.veoh.com
- Vimeo
www.vimeo.com

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File Sizes (1 Hour)



WAV	175MB
MP3	50MB



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

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Improvements...



Content
(non-ambiguous)



Context
(non-verbal / nuance)

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Eyesight Camera



Huckleberry
(\$28.95)

www.ecamm.com/mac/huckleberry/

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Firewire Camera



Item	Cost
iSight	?
Unibrain Fire-i	\$100
Cables to Go - IEEE 1394 Extender (16ft)	\$25

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USB Camera



Item	Cost
Logitech Qc 3000 for Business	\$28
Tripp Lite Active Extension Cable (16 ft)	\$25

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Mini Camcorders



Vado HD

Flip Mino

Flip UltraHD

Kodak Zi6

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Basic Comparison

	Vado HD	Flip Mino	Flip UltraHD	Kodak Zi6
Cost	\$220	\$160	\$200	\$150
Removable Battery	Yes (Li-Ion)	No	Yes (2 AA)	Yes (2 AA)
Recording Time	2 Hours	1 Hour+	2 Hours	2.5 Hours
Capacity	8GB	2GB	8GB	30MB + SD

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Vado or Flip



Flip
Best video quality
Winner in terms of design and ease of use
Only worth considering if filming 1 hour or less



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

Vado Total Cost



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

Desktop / Mobile



Item	Cost
Flexible MiniTripod	\$5-15
Manfrotto Modopocket	\$30
Gorillapod	\$20
UltraPod II	\$15

Medium



Manfrotto 785 Modo Maxi
Photo Video Grip Head Tripod (\$60)

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Two Cameras, One Tripod



6 Inch Twin Bar (\$90)
www.berezin.com

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Interviews



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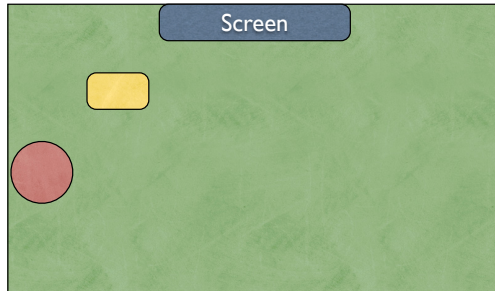
Large



Item	Cost
Manfrotto 055XPROB Pro Trip	\$85
Manfrotto 322RC2 Ball Head	\$110
Manfrotto 31DDB Tripod Accessory Arm	\$125

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Filming



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Filming Wirelessly

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



www.bt-i.com

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Wireless Audio

- Sennheiser MKE2 Gold Series Omni-Directional Lavalier Condenser Microphone
- SK100G2B - Body-Pack Transmitter for Sennheiser EW100 Series Wireless systems
- SKP500G2C Wireless Plug-In Transmitter (Evolution 500 Series)

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Demonstration & Recap

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Pencasting

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Livescribe Pulse

- \$150: 1 Gig / \$200: 2 Gig
- Sold at Target and Amazon
- www.livescribe.com
- Smartpen
- Founded by Jim Marggraff (ex-LeapFrog)



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Package

- Pen
- Headset / Microphone
- Docking station
- Journal



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Basic Parts



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Dot Paper

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

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System Requirements

- PC or Mac

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Competition



logear Mobile Digital Scribe
www.logear.com/product/GPEN200N/



Dane-Elec ZPen
www.danedigital.com

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What Does It Do?

- Digitizes what you write/draw
- Records audio
- Translates text
- Calculator
- Plays music
- Plays movies

Provides a platform for other software

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Pencast: Paper Replay



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Demonstration & Recap

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Q & A

(Thank you!)

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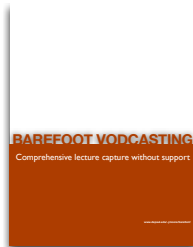
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