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Make Your Own Assessment

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**Melo3Ds**

Integration (and Creation) of Online Learning Resources. Why and How?

Lynne Crandall, Brenda Gunderson, and Nancy Kerner
University of Michigan at Ann Arbor

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**Learning Resources**
- **Learning Resources**
  - Any web-based teaching tool (e.g., tutorial, collection, ...)
- **Learning Objects (LOs)**
  - Interactive web resources that lead students to learning goals via informed pedagogy

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**Selection and Integration of LOs**
- **LO course collection**
  - Selection based on course needs and goals
  - Provided within syllabus or on website
- **LOs tagged for course integration**
  - Choice based on needs vs type of LO
  - Choice focused on LOs that address difficult concepts or skills

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**Selection and Integration of LOs (Physics)**

Physics
Games

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**Selection of Learning Resources (Physics)**

Chosen Java Applets = Games = LOs

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**Selection and Integration of LOs (Physics)**

Presentation by Anbo

[www-personal.umich.edu/~anbo/presentations/MELO2010physv2.swf](http://www-personal.umich.edu/~anbo/presentations/MELO2010physv2.swf)

- Created Assignments linked to selected LOs with directives on how to interact with the LO
- Visually link abstract homework problems to reality
Helpful Hints

- Use "Pause" feature often to reduce extra takes!
- Adjust screen resolutions to provide a "whole screen view" in a smaller video size.
- A headset/microphone combination is a worthwhile investment.
- Use the cursor locate feature to help viewers follow the cursor.

How might you SHARE your Video Wrapper?

Sitemaker
- Free to UM faculty, staff, grad students
- Allows you to manage access
- Allows easy integration of text, pictures, and video in a cleanly designed page.

Screencast.com (Jing)
- Jing uploads for you and you just send the link or post on Ctools site

Direct Email the Video File

Time to Make Your Own Video Wrapper

Pick ONE:
- Create a Wrapper for another LO in your collection
- Create a Wrapper to show how to do some steps or task at the umich.edu website (e.g. how to find your UM directory entry)
- Create a Wrapper to show your students how to do some task on your Ctools site (get to iTunes U)
- Create a 'card/message' in Word/ppt, wrap it with an audio message and send to … mom, friend, yourself

Create Your Own Learning Resource

- MERLOT's Content Builder is free and is an easy-to-use web-authoring tool to create Open Educational Resources.
  
  http://www.merlot.org/merlot/viewMaterial.htm?id=532449

- Can be used to create different types of websites for different user purposes:
  
  Teaching e-Portfolio, Lesson Plans, Online Courses, Tutorials, …

Homework Assignment

- Find three discipline LOs and present and critique one of the LOs using MERLOT evaluation criteria (content, ease of use, teaching and learning effectiveness)

- Contact your MELO faculty supervisor or workshop leaders for more information!

  Nancy
  Brenda
  Lynne

Thank You to …

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- Jessica Piney
- Michelle Lee
- Damian Khan
- Noah Gardner
- Tanya Breault
- Tom Brown
- Adena Rottenstein
- Tim Green

UM Consultants
- Victor Wng
- Chase Masters
- Lynne Crandall
Video LO Tutorials (Writing and Math)

Writing presentation by Ben Gunsberg
 screencast.com/t/MTE1MGl4MTgt

Mathematics presentation by Michelle Lee mishle@umich.edu
 screencast.com/t/Y2FjNzUxOWIt

Select one to watch and listen (using your headphones), then share with your neighbor ...

Process of Making YOUR HOUSE

- Find the LO
- Evaluate it, anything to fix/change, how do you want to make it YOURS?
- Primary fix = video (to explain, show, guide)
- What other components needed?
  - The roof = objectives
  - The basement = assessment/assignment

Some Screen Capture Background

Jing

Advantages:
- Free and Easy to Use
- Captured Shots or Videos can be saved or automatically uploaded
- Formats great for the web

Disadvantages:
- Maximum Video Length: 5 minutes
- Can annotate Screen Shot, but no video editing
- Videos are branded
- Video format not always what one would want

Using Jing

Instructions for Use:
1. Choose “Capture” from the Jing Sun.
2. Select the window of area you wish to record.
3. Select Screenshot or Video. Record.
4. Preview it.
5. Save it locally, or upload it to Screencast.net.

Show a little Jing now!

Using Jing

History:
Convenient location to:
- view
- share
- delete
recent Jings.
The Fully Wrapped LO = PreLab 03

Lesson 03:
In this lesson, you will practice confidence intervals for estimating a population proportion. The data will be generated by a simulation, so it is an excellent opportunity to practice what you have learned in this lesson.

Assignments:
Check the following video about how to use the simulation confidence intervals.

Video Wrapper:
A narrated screen capture video demonstrates the use of the learning object.

http://sitemaker.umich.edu/stats350.prelab/lesson03

Video Wrapped PreLab Part 1

Introduction:
Brief paragraph describes goals of the activity.

Video Wrapped PreLab Part 2

Lesson:
Watch the following video about how to use the simulation confidence intervals.

Rossman/Chance Applet Collection
Simulating Confidence Intervals

http://sitemaker.umich.edu/stats350.prelab/lesson03

Video Wrapped PreLab Part 3

Learning Object:
A link to actual online learning object is given.

Simulation Link:
The simulation may be found here.

Video Wrapped PreLab Part 4

Assignment:
Students complete a short assignment using the Learning Object.

Jing
- Free (with optional upgrade)
- Saved as files or links
- Image or video screen capture
- Documents, webpages, etc.

http://www.screencast.com/users/cmodey/folders/Jing/media/b5d8754-d693-4bde-ba59-952eaf29e4d
Advantages of LO?
- Addresses fundamental concept.
- Provides excellent visual demonstration.
- User can adjust controls.

Disadvantages of LO?
- Learning Objectives?
- Directions?
- Terminology/Notation unknown to our students

Initial Assessment of LO
- The “Simulating Confidence Intervals” LO has the potential to enhance students’ understanding of an important concept.
- However, the imperfections make the LO unsuitable as a standalone resource.

A Solution
- “Package” the LO within the framework of a larger, instructor created lesson.
- Instructor guidance using can alleviate the problems caused by LO imperfections.

Instead of:

My students will see:

Why a video screen capture?
- The video wrapper allowed the instructor to:
  - Introduce the LO
  - State the learning objectives
  - Explain inconsistency in notation
  - How it works
- After watching the video, students can use the LO independently.
Unique LO Collection Building (Psychology)

An Innovative End of Term Assignment

- Intro Psych students pick own “muddiest point”
- Student = peer reviewer
  found, reviewed, recommended LO
to address muddiest point
- Students submitted mini-review of LOand recommendation for why and how
to implement in course

Unique LO Collection Building (Psychology)

Students recommended many quality LOspreviously overlooked or undiscovered

Examples

Pavlov’s Dog: A classical conditioning simulationCataloged in: Science & Technology/Biology/Zoology

Mouse Party: A simulation for examining theeffect of common illicit drugs at the synaptic levelCataloged in: Science & Technology/Chemistry/Biochemistry

Unique LO Collection Building (Chemistry)

Presentation by Kevin Hartman,
screencast.com/t/MTE1MGY4MTgt

- “LO Scavenger Hunt” to find “best course LO”
- Student submits mini-review and recommendation forwhy and how to integrate LO in course
- Points awarded based on review, quality of LO,recommendation specifics, and peer feedback

Overall Outcome: The Big Idea

Move from a model where students are notonly engaged learners but also co-teachers.

(Potentially Useful) LO in Statistics

- Simulating Confidence Intervals
- Authors: Beth Chance,Allan Rossman (CP)

http://www.rosmanchance.com/applets/ConfSim/ConfSim.html
Interdisciplinary LO Collection

- Undergraduate students have different levels of academic training
  Why interdisciplinary?
- Success in undergraduate education demands a solid foundation in a variety of basic academic skills

Examples:
- Writing skills
- Working in Groups
- Presentation skills
- Study skills
- How can we work towards leveling the playing field?

Integrating LOs (Psychology) and Creation of an Interdisciplinary Collection

Presentation by Adena Rottenstein
http://www.screencast.com/t/0Dc1Otu3

- Unique course specific listings of LO collections
- LOs are video clips with relevant assignments
- Interdisciplinary collection details

MERLOT

- LO resource collection in MERLOT growing exponentially
- Useful LO evaluation criteria
- Why MERLOT?
- Ability to submit LOs and create personal LO collections
- Power of affiliation with a global teaching and learning community

Creation of an LO collection

- Time to create your own personal collection!
- See Assignment 1 on page 3 of your workshop handout

http://www.merlot.org

1. Create a Personal LO Collection on MERLOT

2. Make LO collections student accessible. How?