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About Us…

- MIT Office for Educational Innovation and Technology
  - Dean for Undergraduate Education
  - Support innovation cycle
  - Novel uses of technology to support teaching and learning at MIT

OEIT
The Ground Rules

- I'm with the MIT Office of Educational Innovation and Technology
  - I don't work for MIT OpenCourseWare
    - I *do* work with them
  - I don't represent MIT OpenCourseWare or make institutional commitments about OpenCourseWare
    - And to be clear, MIT is not charging for OCW. “OpenCourseWare will remain free and open.”

- This presentation will be a status report, and opportunity for discussion
Wouldn’t it be great if MIT OCW…?

Early 2010
MIT OCW is a Publication

- MIT OpenCourseWare is a free publication of MIT course materials that reflects almost all the undergraduate and graduate subjects taught at MIT.
  - OCW is not an MIT education.
  - OCW does not grant degrees or certificates.
  - OCW does not provide access to MIT faculty.
  - Materials may not reflect entire content of the course.

...but...we’re at MIT, certainly we should be able to do more with OpenCourseWare...

*Wouldn’t it be great if MIT OCW...?*
...aha!
We were asking the wrong question!

What if **WE** experimented
with MIT OCW…?
Sure...OEIT can develop a custom copy of MIT OCW

- Mirror of MIT OCW site
- Within boundaries of Creative Commons by-nc-sa

✓ Project Greenfield
http://greenfield.mit.edu
What are others doing to build upon MIT OpenCourseWare?—OpenStudy

- Allowing users to connect with other learners
  - OpenStudy (9 courses)
    6.00 Introduction to Computer Science
    18.01 Single Variable Calculus (Fall 2006)
    6.001 Structure and Interpretation of Computer Programs
    6.002 Circuits and Electronics
    8.01 Physics I: Classical Mechanics
    8.02 Electricity and Magnetism
    18.01 Single Variable Calculus (Fall 2006)
    18.02 Multivariable Calculus
    18.06 Linear Algebra

Source: OpenStudy
https://ocw.mit.edu/courses/mathematics/18-01-single-variable-calculus-fall-2006/
What are others doing to build upon MIT OpenCourseWare?—Nixty

Building Upon MIT OpenCourseWare

- These work well because MIT OpenCourseWare remains a publication
  - “Magnify the value of [the] publication.”

- These services are provided and supported external to MIT OpenCourseWare
  - Very “light” integration (page/links or copy of content)

Launching Project Greenfield
April 2010

- MIT Faculty have asked us about…
  - Interactivity
  - Tools and services
  - Innovative browse mechanisms

- OEIT’s goals are to:
  - Support MIT faculty
  - Experiment, to show what’s possible (e.g., Web 2.0)
  - Prototype tools and services for published MIT OCW

- … all with MIT OCW course materials

Project Greenfield
New Developments

- MIT OpenCourseWare has been updating elements

- MIT is looking at how we approach E-Learning and Other Educational Possibilities
  - 3 MIT committees, one focusing on use of E-Learning to enhance student learning experience
  - OpenCourseWare will likely play a big role—expanding the use of OpenCourseWare with MIT Students
What are new developments with MIT OpenCourseWare?

- Transitioned to a new publication platform
  - Allows more rapid updates and changes (May 2010)
  - “New” Mirror program (forthcoming, November 2010)

- Improving interaction with video lectures
  - ~15 courses updated to date (September-October 2010)
  - Many of the most visited MIT OCW courses are because of their video lectures, adding more courses with video lectures
What are new developments with MIT OpenCourseWare? (cont.)

- Creating OCW Scholar
  - MIT extending core courses to provide more complete learning materials
  - Organizing materials by concepts, adding explanation videos and tutorials, adding self-check quizzes
  - OCW Scholar Courses (December 2010)

This fits into MIT OpenCourseWare as a publication. The course materials are organized by concept, are more complete versions of existing OCW courses, and have additional OCW Scholar materials targeted at self-learners.
Ok, so what do WE WANT to do?!?!
Projects Underway

- Video and transcript integration
- Concept browser
For more information on SpokenMedia, visit http://spokenmedia.mit.edu/
SpokenMedia player in the “new” MIT OCW webpage. We also see the playlist of all videos for the 8.01 Introduction to Physics course.
Concept Browser

- OCW is working on providing concept-type descriptions for some course materials
  - OCW Scholar
    - Concept level (1-10 concepts per course)
    - Includes learning objectives, some formative assessment
    - Created by faculty
  - OCW categorization project
    - Very high-level, course concepts
    - Hand applied
Concept Browser

- What are we doing?
  - Enabling search over text AND video materials (using SpokenMedia)
  - iPad application (Vijay Umapathy, M.Eng. student)
    - Search by concept, browse multiple media (text and video)
    - “Playback” from the concept

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