Openness, Data, and the Future of Education

David Wiley, PhD
Department of Instructional Psychology & Technology
Brigham Young University

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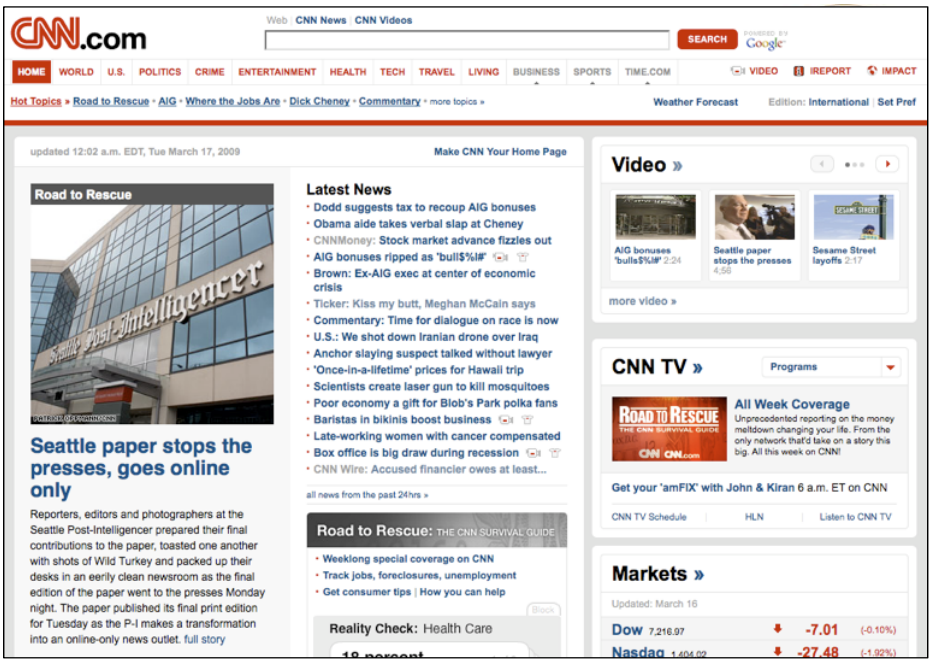

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Open Educational Resources

Hacking (c) to leverage the nonrivalrous nature of digital educational materials

Open, adj.

Providing users a collection of rights called “the four R’s” - for free

The 4 Rs

Reuse - verbatim copies

Redistribute - share copies

Revise - make adaptations

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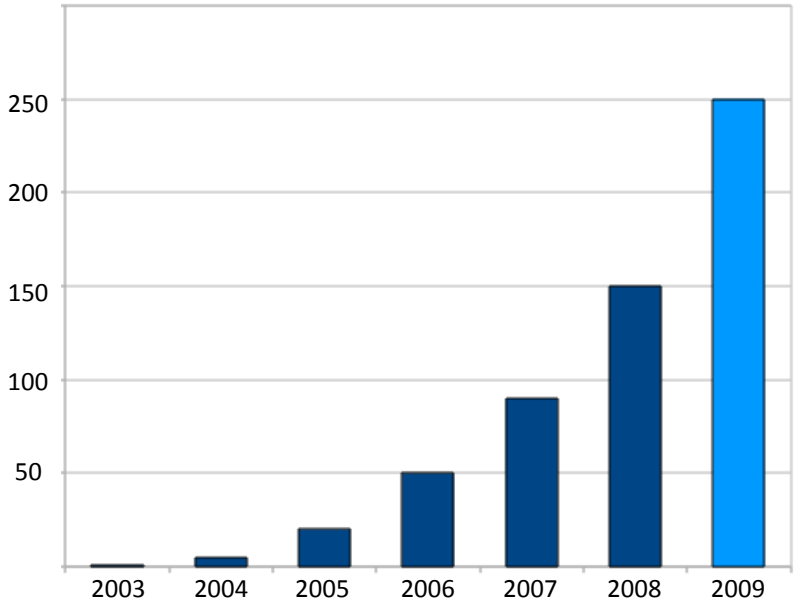

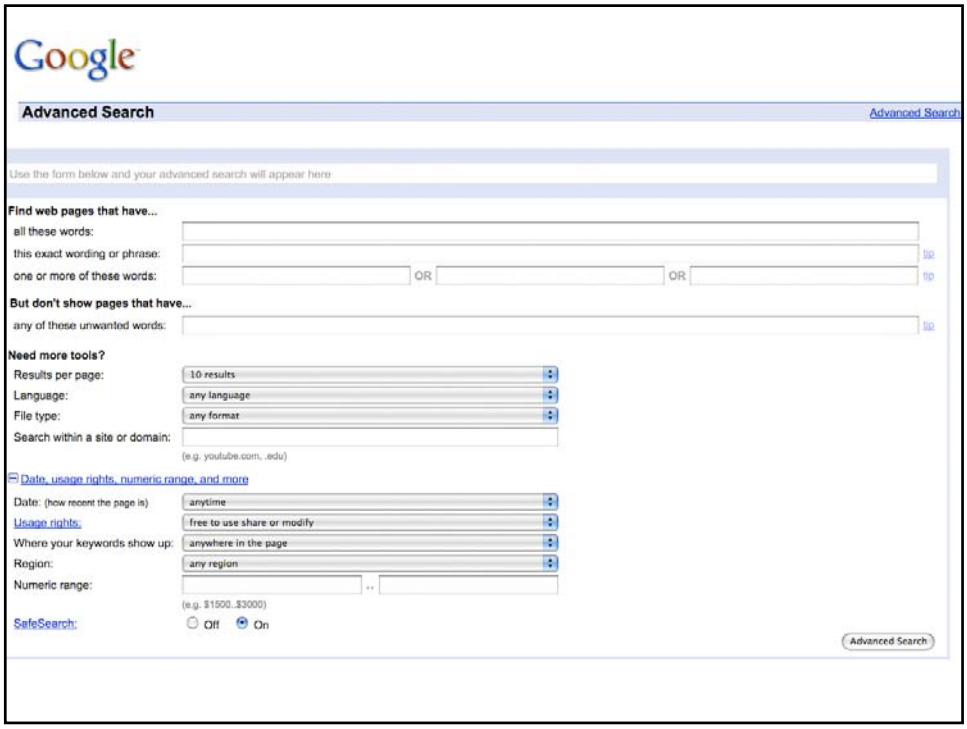
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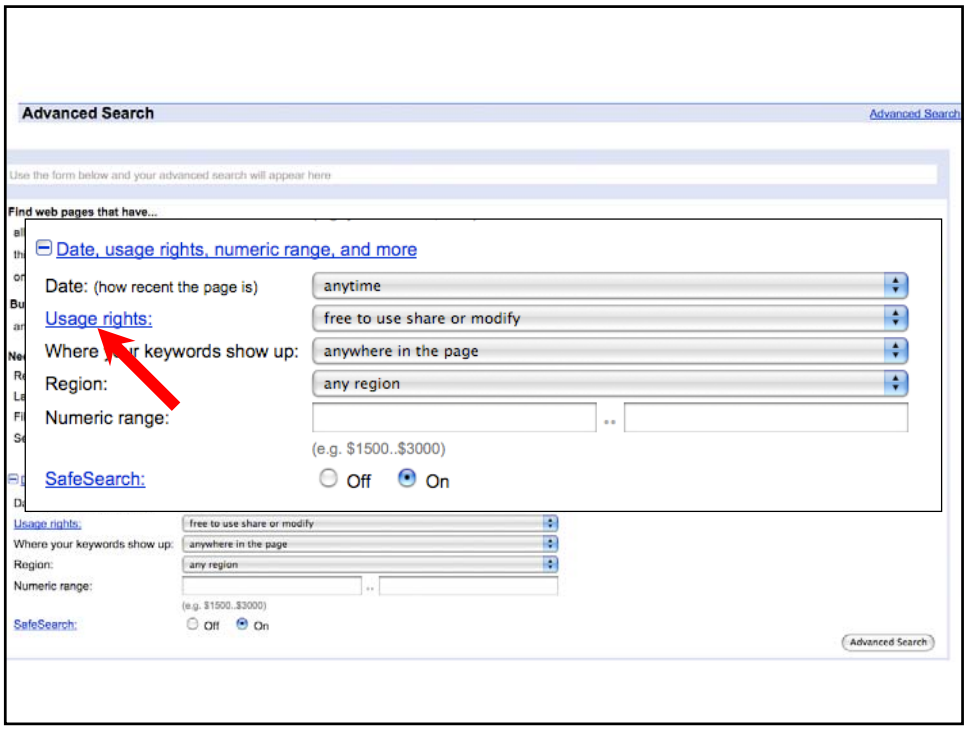
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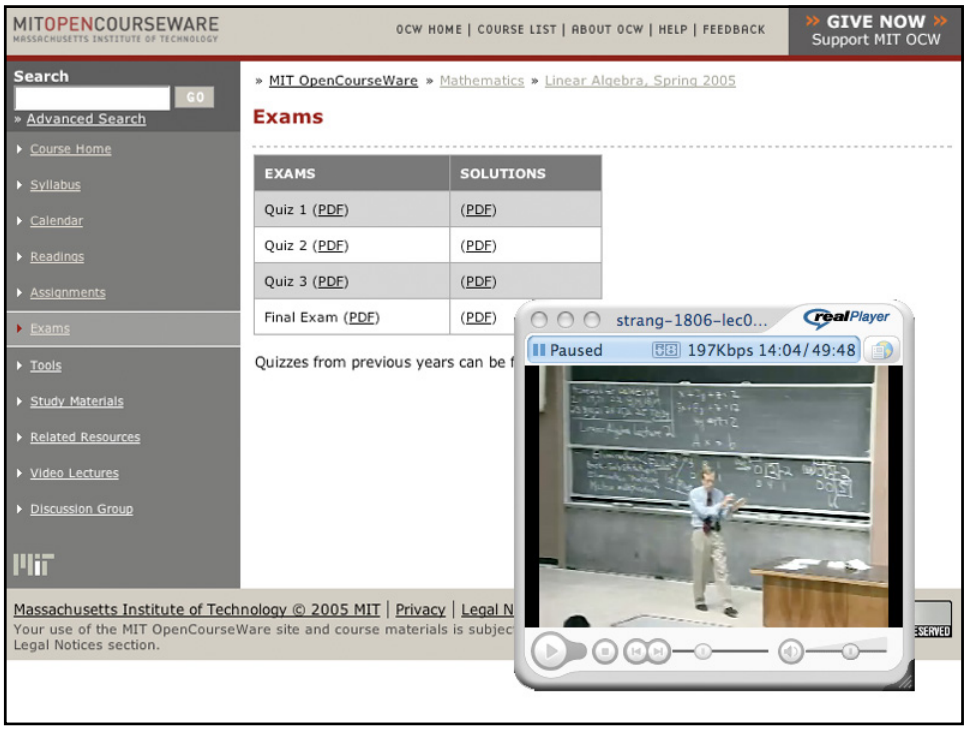
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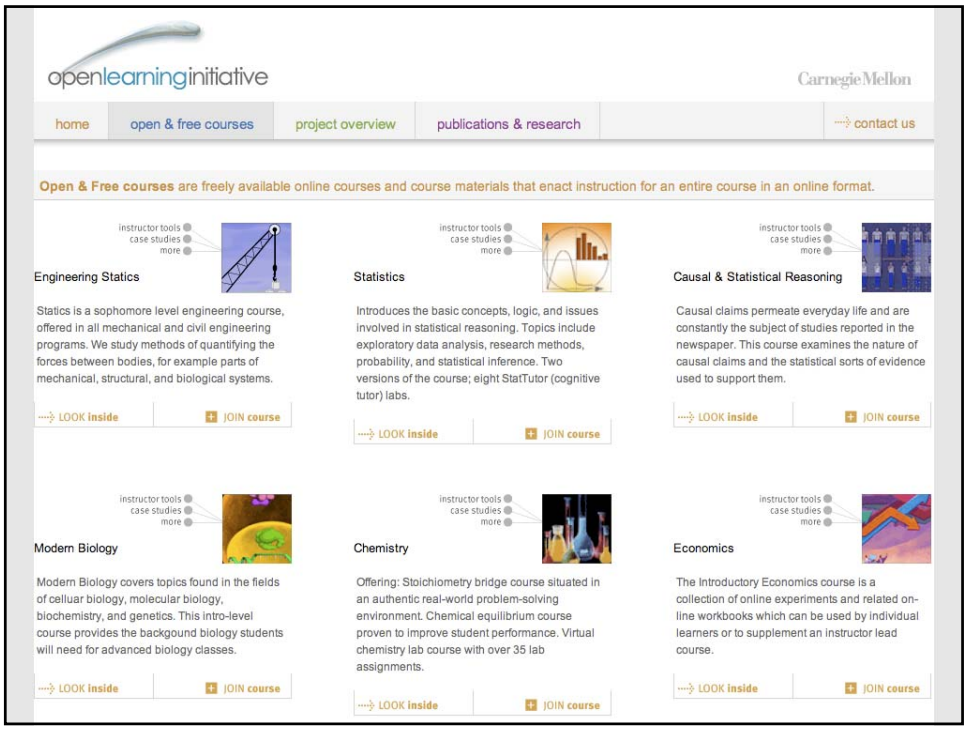
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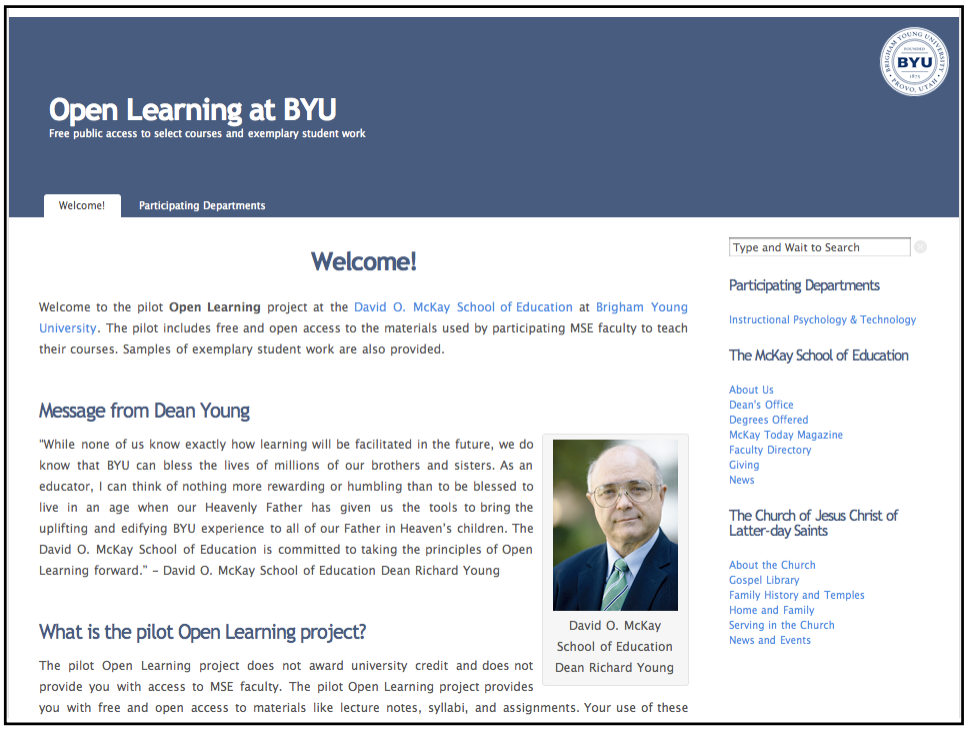
Open Learning at BYU
Free public access to select courses and exemplary student work
Welcome!
Participating Departments
Welcome!
Welcome to the pilot Open Learning project at the David O. McKay School of Education at Brigham Young University. The pilot includes free and open access to the materials used by participating MSE faculty to teach their courses. Samples of exemplary student work are also provided.
Message from Dean Young
"While none of us know exactly how learning will be facilitated in the future, we do know that BYU can bless the lives of millions of our brothers and sisters. As an educator, I can think of nothing more rewarding or humbling than to be blessed to live in an age when our Heavenly Father has given us the tools to bring the uplifting and edifying BYU experience to all of our Father in Heaven's children. The David O. McKay School of Education is committed to taking the principles of Open Learning forward." – David O. McKay School of Education Dean Richard Young
David O. McKay School of Education Dean Richard Young
What is the pilot Open Learning project?
The pilot Open Learning project does not award university credit and does not provide you with access to MSE faculty. The pilot Open Learning project provides you with free and open access to materials like lecture notes, syllabi, and assignments. Your use of these
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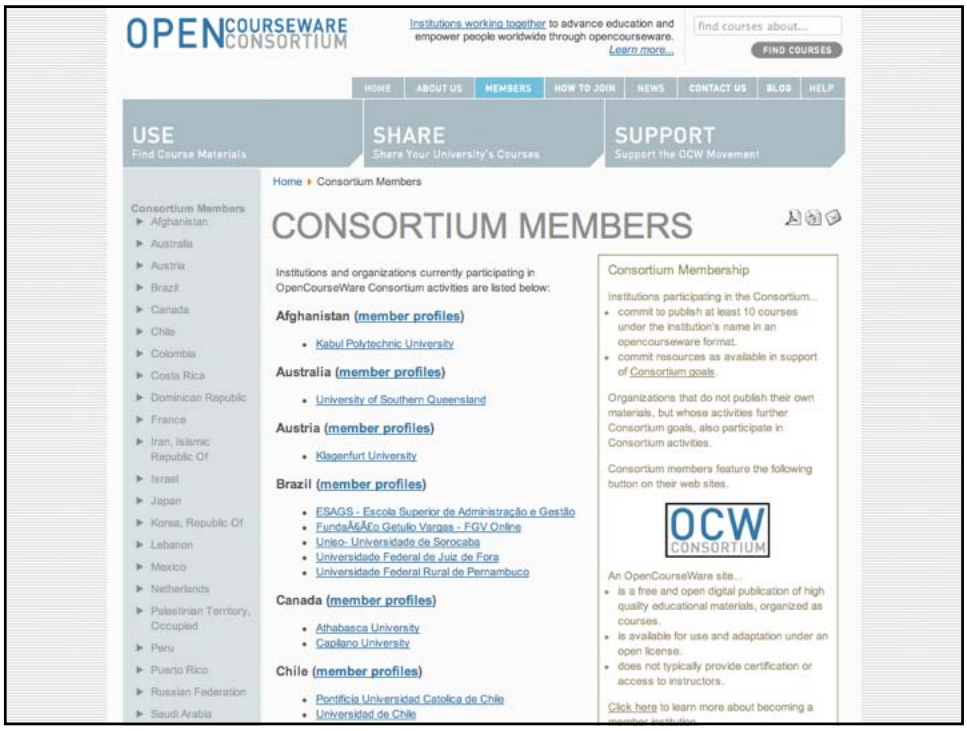
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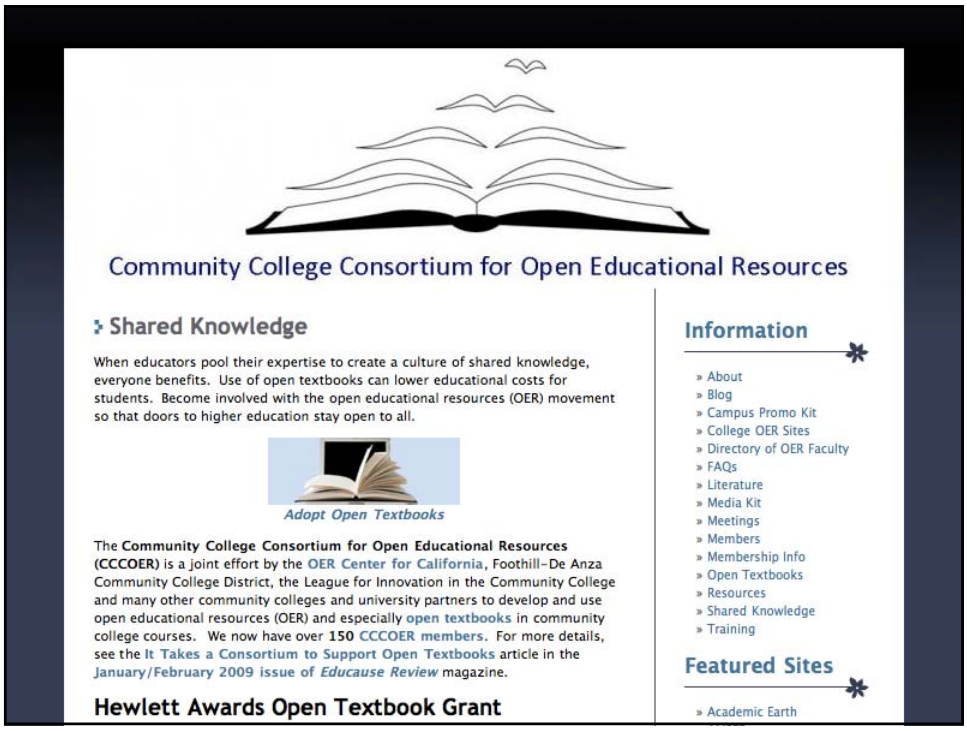
Community College Consortium for Open Educational Resources
Shared Knowledge
When educators pool their expertise to create a culture of shared knowledge, everyone benefits. Use of open textbooks can lower educational costs for students. Become involved with the open educational resources (OER) movement so that doors to higher education stay open to all.
Adopt Open Textbooks
The Community College Consortium for Open Educational Resources (CCCOER) is a joint effort by the OER Center for California, Foothill-De Anza Community College District, the League for Innovation in the Community College and many other community colleges and university partners to develop and use open educational resources (OER) and especially open textbooks in community college courses. We now have over 150 CCCOER members. For more details, see the It Takes a Consortium to Support Open Textbooks article in the January/February 2009 issue of Educause Review magazine.
Hewlett Awards Open Textbook Grant
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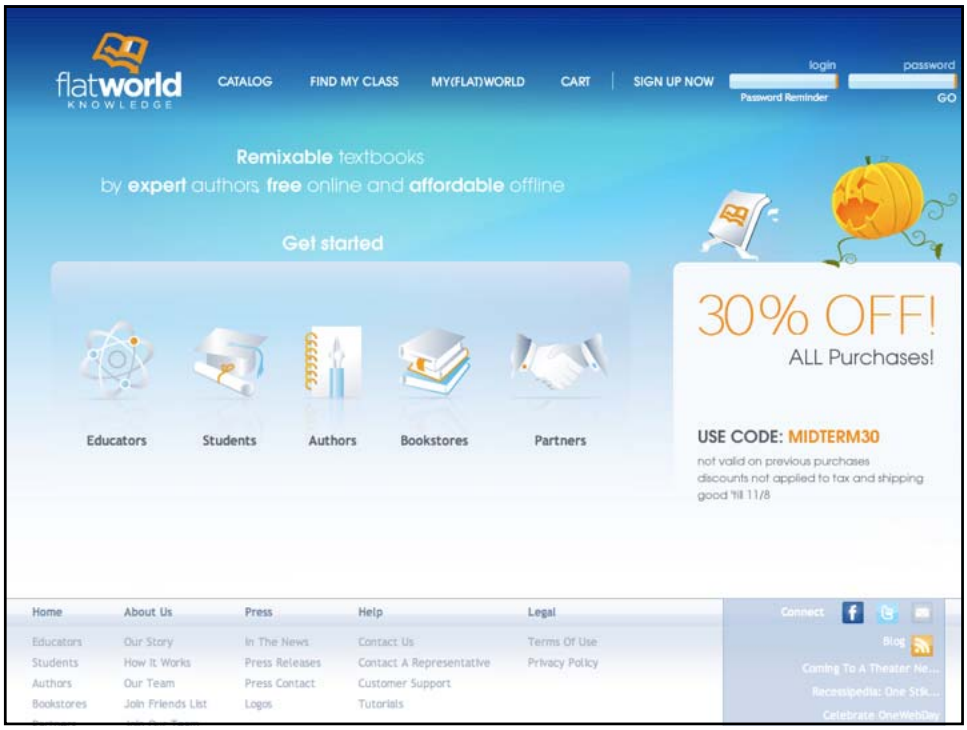
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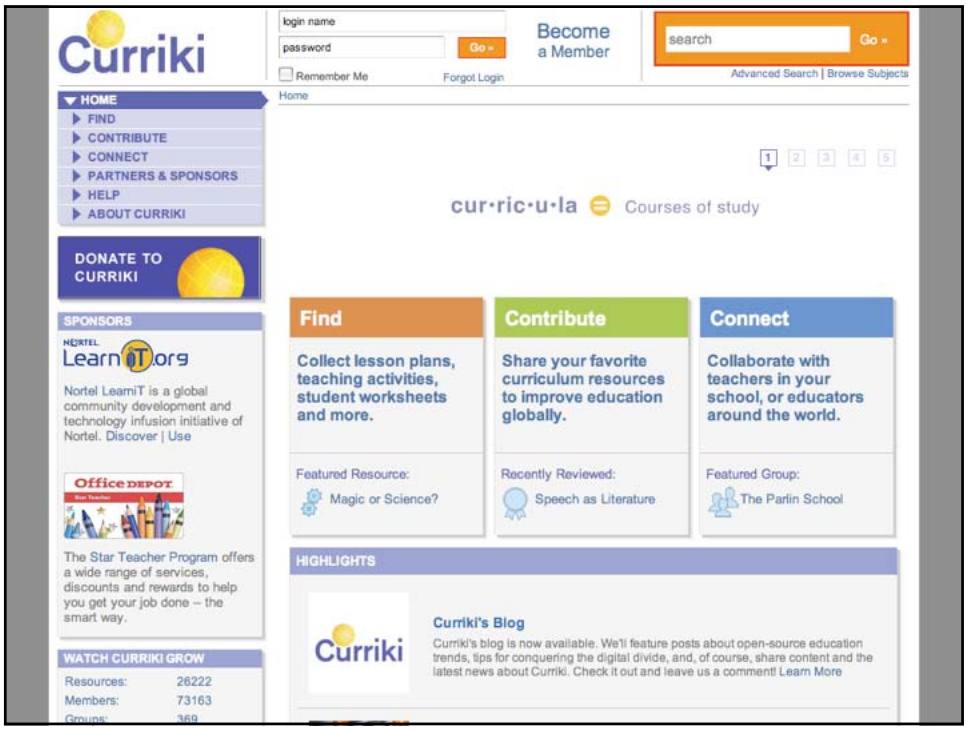
Bruce Davidson
Bruce Davidson has an M.S. in Physical Science Education from Old Dominion University. He has retired after teaching high school physics and biology and is currently working part-time for Newport News Public Schools in Newport News,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Bloom's 2 Sigma Challenge

Bloom, 1984

One-to-One Tutoring

And other methods compared to
30 students in the classroom

Average Tutored Student by 2 SD

In other words, the average student is capable of much more

Tutoring is Expensive

So we teach class instead!

If the research on the 2 sigma problem yields practiced methods (methods that the *average teacher* or school faculty can *learn in a brief period* of time and use with *little more cost or time* than conventional instruction), it would be an educational *contribution of the greatest magnitude*. (p. 5)

Bloom, 1984

To Tutor Or Not to Tutor?

That is the (false) question

“Strategic Tutoring”

What if we could do one-on-one tutoring just-in-time and just-on-topic?

Obs. 1 - Requires Great Insight

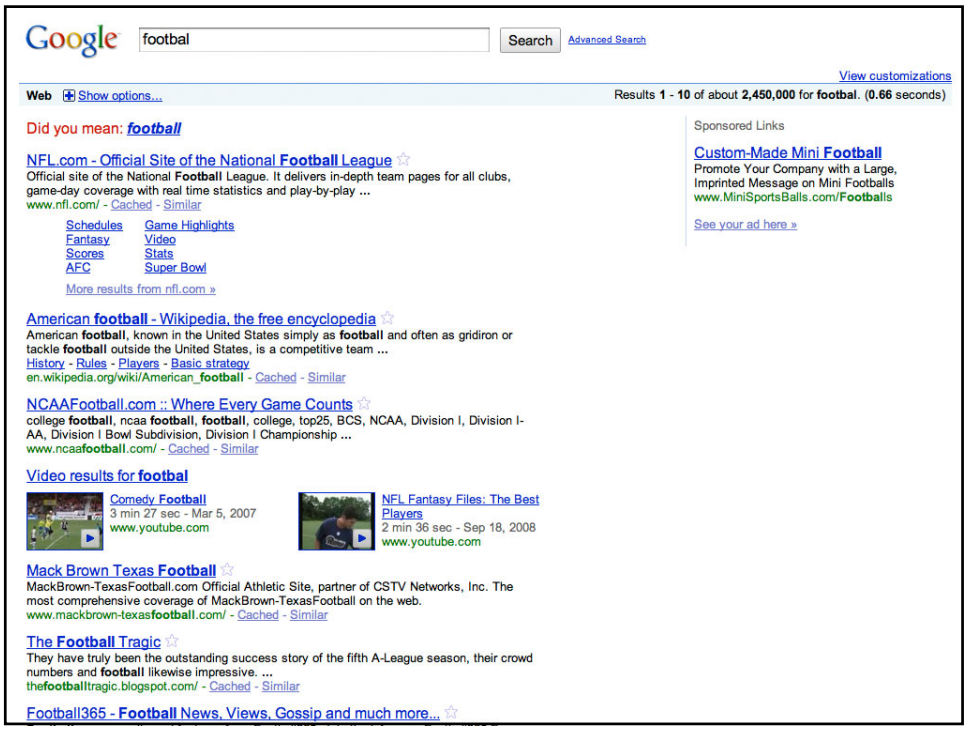
We’d have to know who needs help, when, and what they need help with

Obs. 2 - Data Are the Key

You'd need live, fine-grained data about students, assessment, and curriculum

Obs. 3 – Good Data Are Expensive!

Who gathers and analyzes data like this?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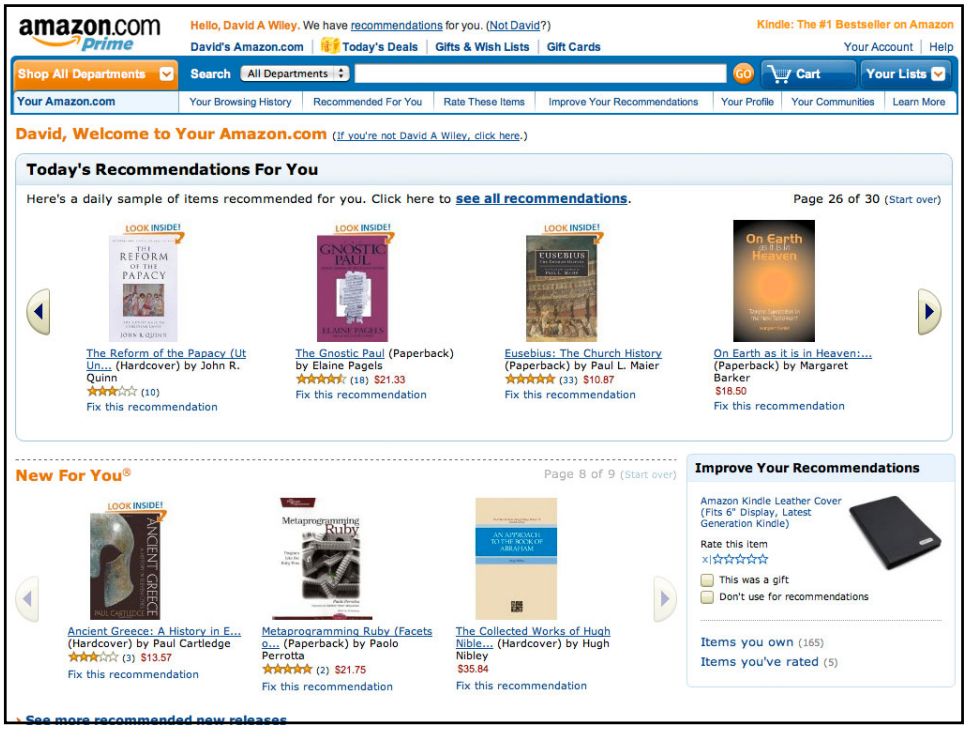
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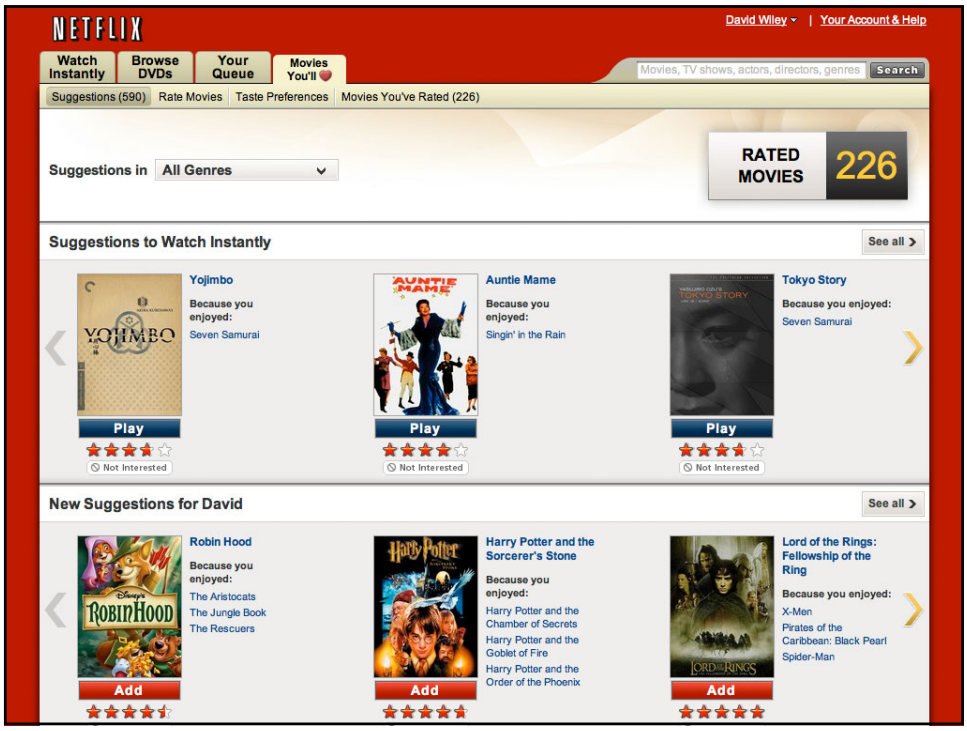
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Spider-Man
Add

Each and *Every* Interaction

Recorded and stored for analysis
to improve quality of service / experience

Even the Grocer!

Almost every industry uses data more effectively than education

How Can We Get the Data?

One option is to follow Google, Amazon, Netflix, WoW, etc.

Do School *Online*

Where each and every interaction can be captured and stored for analysis

What Kind of Data?

When they logged in, read, and worked
How long they logged in, read, and worked
Pathway information
Item-by-item analytics
&c.

OHSU Teaching Model

Online curriculum teaches as much as possible, teachers do proactive “strategic tutoring”

Another Benefit of Data

Engage in continuous improvement of curriculum materials

Can You Improve Curriculum?

Data aren't sufficient – you need permission

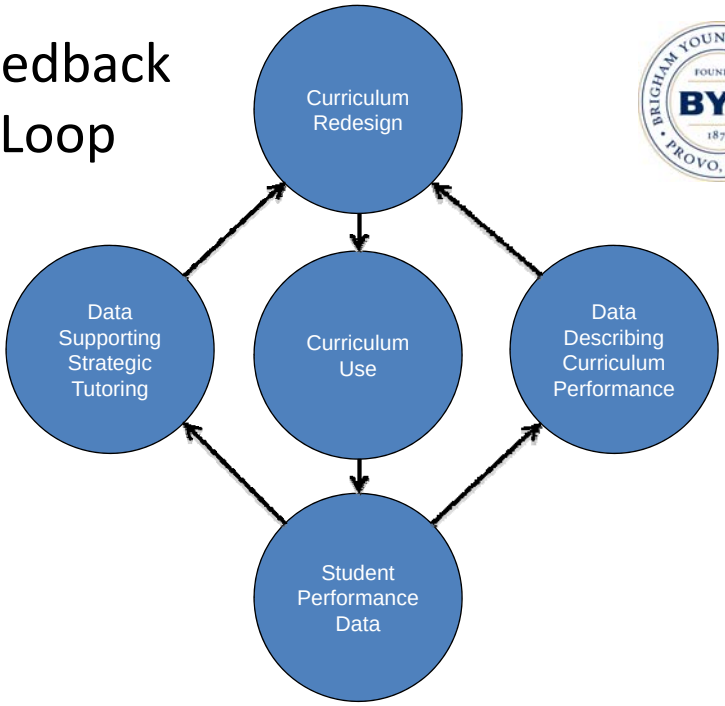
OHSU Charter Requires OER

Founders' way of "burning the ships"

Conjoint Continuous Improvement

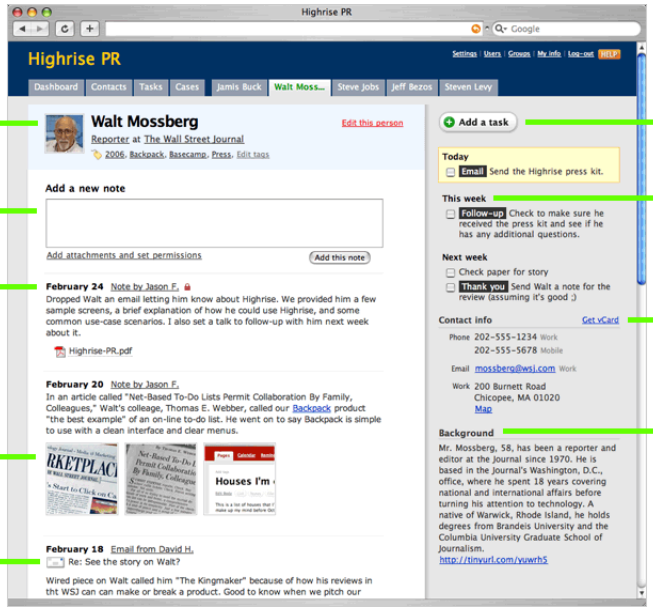
Student learning and curriculum effectiveness grow simultaneously

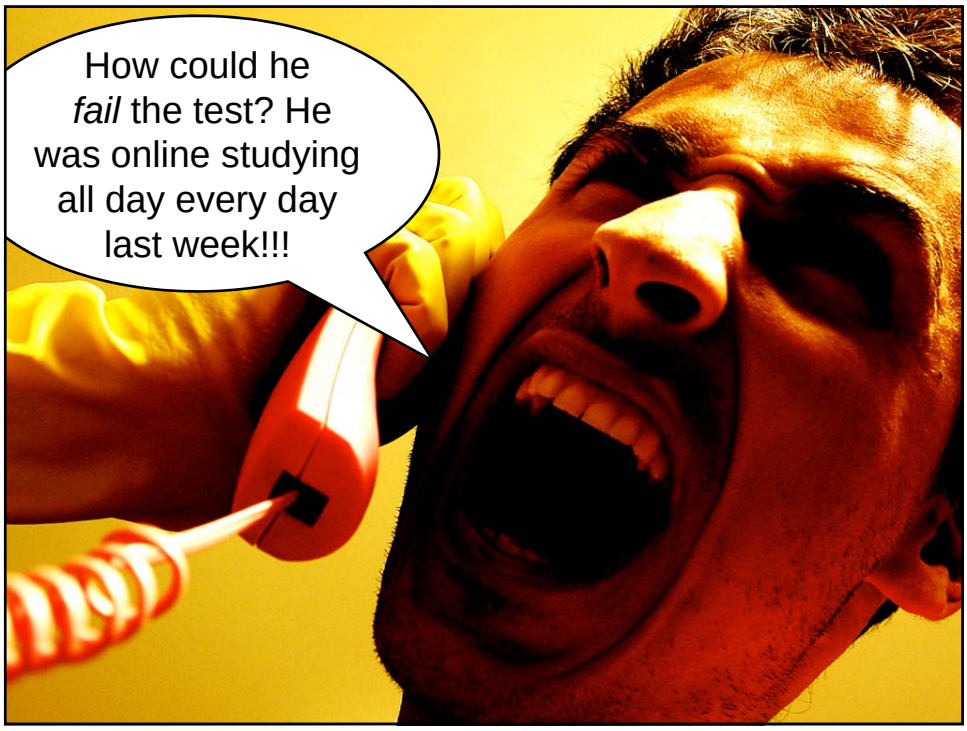
Feedback Loop



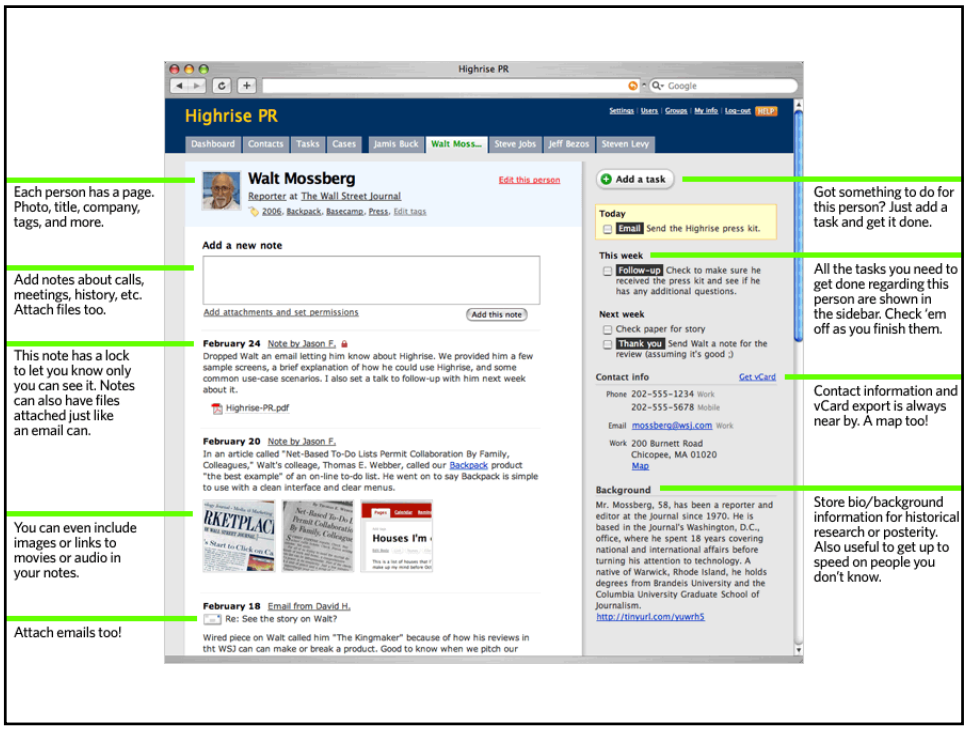
Capturing Out-of-Band Tutoring

Using customer relationship management (CRM) tools



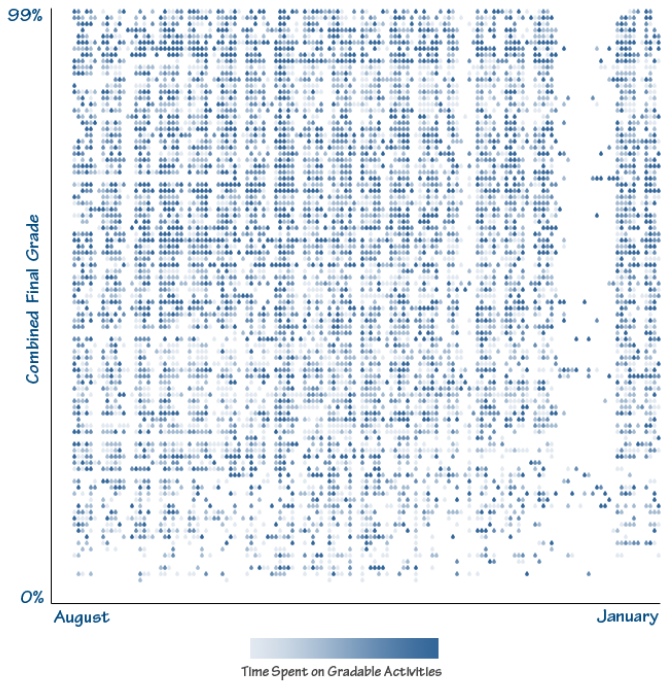

How could he *fail* the test? He was online studying all day every day last week!!!

He must have been playing World of Warcraft, because he only spent 32 minutes on Algebra.



Visualizing Educational Data

Creating new visualization techniques to support teaching and learning



Open Textbook Pilot

Replacing expensive textbooks with OER textbooks from CK12.org

2010-2011

2100 students in Earth Systems, Biology, and Chemistry

$10 per book

As opposed to $80+ per book

Textbook as Consumable

Students can highlight, annotate,
and keep their textbooks

At Least 50% Cost Savings

We believe levels of learning
will be constant or improve slightly

Thank You

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