Learning 2.0 – new modes of learning & scholarship.

Connect ~ Discover ~ Create
A Celebration of Case Library & Geyer Center for Information Technology

Shift Happens
In order to cope with exponential change don’t we need to rethink what we need to learn and how learning could become a life long habit?
Cartesian View of Learning

Knowledge as substance

And pedagogy as knowledge transfer

Leading us to think of learning like this...

“The delivery model: I teach – you learn”

“Cultivate the neat rows of disciplinary knowledge”
The Social View of Learning

we participate
therefore we are

understanding is socially constructed

Suggesting we view learning more like this

“We learn in and through our interactions with others and the world”
Nothing Beats Collaborative Study Groups – especially around homework & exam preparation. The social construction of understanding is real.

And this works virtually as well -IMing or Second Life

The social life of learning on campus
They are ubiquitous

And in social networks across communities/friends

Blogs – Facebook – MySpace – LinkedIn, …
And in virtual worlds on/off campus

Second Life

new kinds of social spaces for collaboration & learning
Learning as supported through participatory architectures

we participate therefore we are

understanding is socially constructed

The architecture studio--
the atelier form of learning

a powerful social learning environment

where work in progress is made public.

learning as enculturation into a practice.

Does this generalize or scale?
Beyond textbook learning: learning-about ===> learning-to-be

dimensions of knowledge
(Michael Polanyi)

Reversing the Flow

Key: unleashing productive inquiry
MIT’s studio for 8.02 electricity and magnetism --
technology enabled active learning (teal)
following RPI’s & NCSU’s studio physics courses.

moving seamlessly between lecture, experiment & discussion
and addressing the drop out rate

Faulkes Telescope Project

Physical Location -- Maui

Students get remote access – run real experiments
pool and analyze their results with a master.
New kind of learning/scholarship platform:
the specialized scholar’s portal
(allow for mini-papers as well)

New ways for students to engage in research
New forms of peer review – a view into a practice

The power of visualization to help us
explore and learn.

Diffusion tensor MRI of a brain rendered in a
a 3d immersive space – CAVE
‘Modern’ kids from the global world growing up with mobile phones and internet

Do We Understand Them?

What creates meaning for them?

Life in the Digital Age –
A culture of participation:
Building, Tinkering, Remixing & Sharing

Creating meaning by what I produce and others build on – a remix, open source culture.
Remix & Mashup
creative tinkering & the play of imagination

But it is also ‘creative reading’ like in fandom – fans filling in the back story in highly imaginative ways.

Ah, creating meaning by integrating their imagination with that of the ‘author’ in remix.

sometimes seen on YouTube
A new kind of participatory media/medium
for students/teachers/parents/producers/consumers

An Important Distinction

Web 1.0
Mass Media

Web 2.0
Participatory Media

The rise of the amateur class (amator – Latin: lover) &
user generated content (UGC)
The Contrast

<table>
<thead>
<tr>
<th>Web 1.0</th>
<th>Web 2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presentation</td>
<td>Participation</td>
</tr>
<tr>
<td>Publication</td>
<td>Conversation</td>
</tr>
<tr>
<td>Aggregation of information</td>
<td>Aggregation of people and expertise</td>
</tr>
<tr>
<td>Consumption</td>
<td>Co-Creation</td>
</tr>
</tbody>
</table>

Ok, jsb – remix, user generated content, blogs and co-creation but where is there any guarantee of quality and a seat of authority??
Authority vs. Timeliness (in a rapidly evolving world)

But that finesses the question of quality.

Key: new reading practices are called for!

The Increasing importance of the library in the digital age

Curating content
Nurturing judgment
Scaffolding productive Inquiry
Molding a social space a scholarship practicum
Carla Hesse:

“Knowledge is no longer that which is contained in space, but that which passes through it, like a series of vectors, each having direction and duration yet without precise location or limit.

In the future, it seems, there will be no fixed canons of texts and no fixed epistemological boundaries between disciplines, only paths of inquiry, modes of integration, and moments of encounter.”
The Vector Space -- an "intellectual paint program" or alternative index that allows users to browse article metadata visually.

Public Secrets
By Sharon Daniel
Design by Erik Loyer

"I FIGURE THAT SOMEWHERE ALONG THE LINE WE ALL HAVE BEEN PUSHED AWAY IN OUR LIFE..."

"I WAS IN BEAUTY PAGEANTS, I WAS A BALLET DANCER... AND THEN I JUST MADE A MESS OF MY LIFE"
Amelie Hastie - Associate Professor, Film Studies - UC-Santa Cruz

... This <Vectors> digital format allowed me both to realize and to invent a mode of thinking that was deeply collaborative and which forged connections between ideas, objects, and images.

... I am continually trying to think (and propose thinking to my students) dialectically and dialogically about Images and theoretical texts; for a theorist-filmmaker like Sergei Eisenstein, this entailed forming new ideas out of the "collisions" that take place between images. Vectors allowed me to take this notion much further than one might do in a relatively linear moving-image media or in a written text, as I was able to converge and collide multiple writings, objects, images, voices, and ideas together, which would allow the reader/viewer/visitor to reveal those connections on the screen.
The Divine Comedy: Inferno
by Dante Alighieri (1265-1321) | translated by Henry Wadsworth Longfellow (1807-1882)

A radical process, a radical genre

McKenzie Ward
An interview with McKenzie from inside Halo

(and an example of machinima)

Shift Is Happening

**New institutional/personal dispositions**
open but skeptical
balance: fixity ---- fluidity
willingness to experiment/evolve ways of knowing
listening with humility

**New multi-modal literacies & their practices**

culture of participation & continuous learning
Thank You

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