

What do we see when we look through a computer?

Stephen Downes
National Research Council Canada
May 30, 2006









Theme of this conference:

Through the Eyes of Our Students: looking forward



The Net Generation:

- Always connected, immediacy
- Learns by Exploring
- Independent, open, expressive
- Interaction, shared authority

http://www.growingupdigital.com/
http://www.educause.edu/educatingthenetgen





What we see when we look at a computer:

- words and textual content
- images and graphics
- perhaps some video

In other words – traditional paper-based media...

But what does someone immersed in net culture see?



Virtual Reality

Is the online somehow unreal?

We might think so... but consider how we approach what we perceive through:

- mirrors
- telescopes
- telephones





Video games... Videoconferencing...



http://secondlife.com/

MMORPGS

http://en.wikipedia.org/wiki/MMORPG



It's all people...

Websites are people too...



The Net Generation creates its own media...



Identity Production in a Networked Culture: Why Youth Heart MySpace ... Danah Boyd http://www.danah.org/papers/AAAS2006.html

"The dynamics of identity production play out visibly on MySpace. Profiles are digital bodies, public displays of identity where people can explore impression management."



Blogs and Wikis

"Never have so many people written so much to be read by so few..."

-- Katie Hafner NY Times.



<u>Blogger</u> - <u>Live Journal</u> - <u>Movable Type</u> - <u>Wordpress</u> <u>Educational Blogging</u> - article <u>Educational Weblogs</u> - <u>Edublogs.org</u>

Wikipedia – as compared to Britannica by Nature



Photos, Podcasting and Vodcasting

Flickr
Podcasting - wikipedia
iPodder - Odeo —
Liberated Syndication

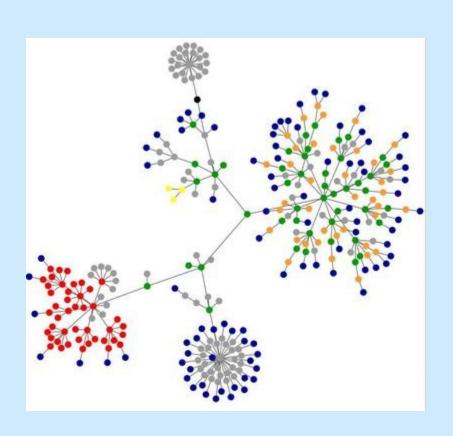
Youtube - video



Podcasting in Learning

Ed Tech Talk - Ed Tech Posse - FLOSSE Posse Bob Sprankle - Education Podcast Network





But... when we look at a website... at media...

What do we see?

Something like this.

Websites as Graphs

http://www.aharef.info/static/htmlgraph/

Each blue dot is a hyperlink to another website



New Media

Traditional media is linear – hypermedia is *multidimensional*

Traditional media is *composed* – hypermedia is *connected*

Traditional media *describes* – hypermedia *represents*

Traditional media is *static* – hypermedia is *dynamic*

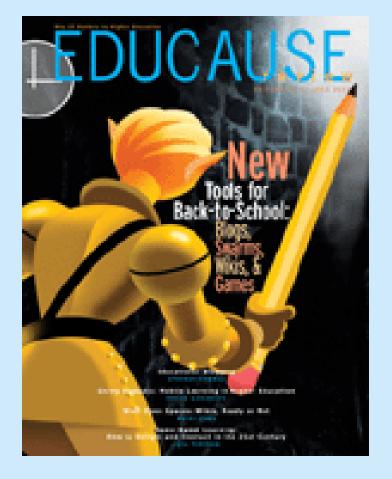


Codex Armenicus Rescriptus. Palimpsest, Monastery of St. Catherine, Mt. Sinai, 6th c. and 1st half of 10th c.



Misa Matsuda: networked technologies create "full-time intimate communities."

Danah Boyd: MySpace provides a fertile ground for identity development and cultural integration. As youth transition from childhood, they seek out public environments to make sense of culture, social status and how they fit into the world.



http://www.educause.edu/apps/er/erm04/erm045.asp

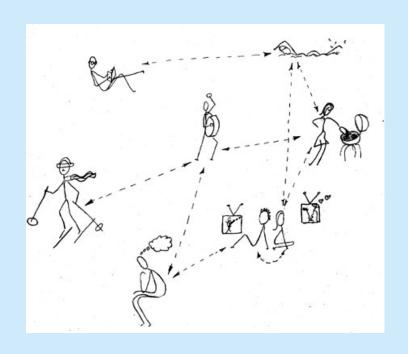
http://www.danah.org/papers/MySpaceDOPA.html



Social Networking

A website is not a person's *description* of themselves...

It is a *presentation* of themselves through their network



http://en.wikipedia.org/wiki/Social networking

Institute for Information Technology





http://www.socialcustomer.com/

When we look through the internet, we are creating networks... perception - as an extension of ourselves... McLuhan - our networks are extensions of ourselves - facets of our identity... when we look at the computer we see ourselves through our contacts, our liaisons, our interactions...



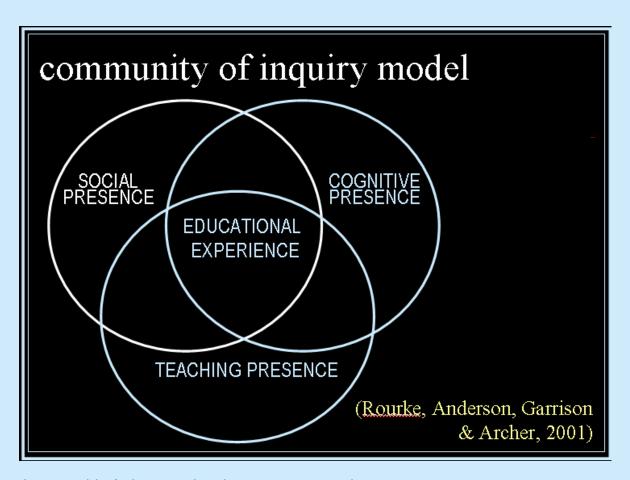
Why is this important?

In a nutshell – because it means that theories of online distance learning must:

- capture the expression of self as a network of connections
- place this self at the centre of the learning experience

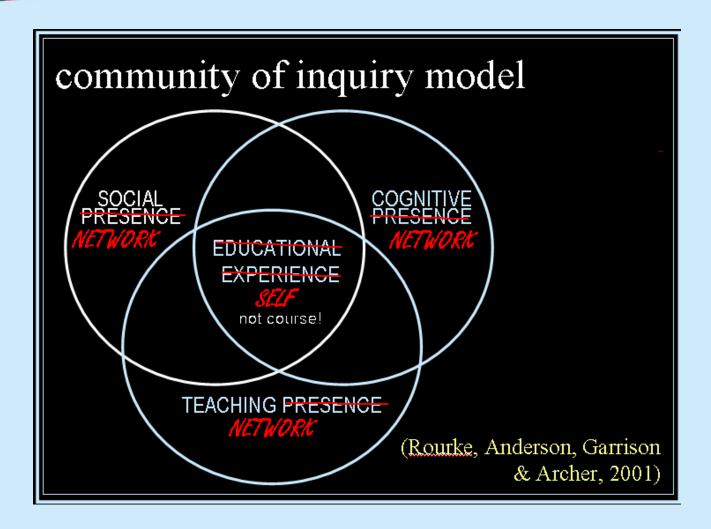


For example...

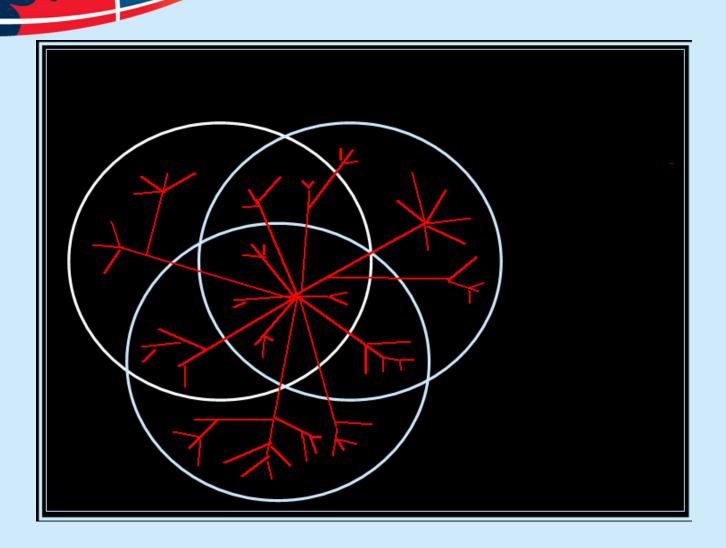


http://cider.athabascau.ca/

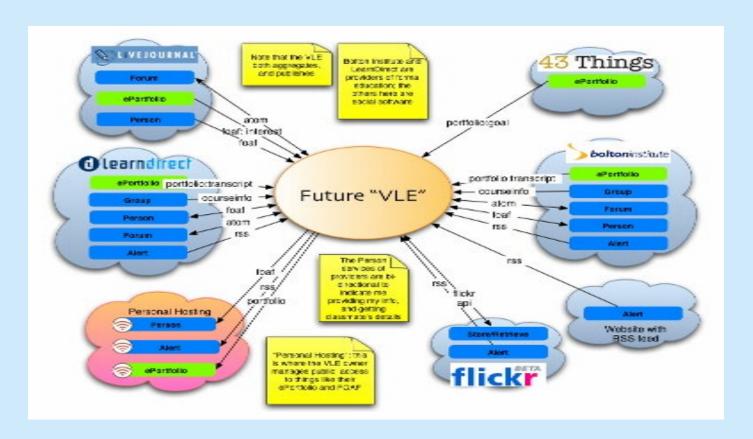












http://elearnmag.org/subpage.cfm?section=articles&article=29-1

Traditional Online Learning

- Institution Based
 - Online courses, learning management system
 - Content 'federations' closed network
- Product Based
 - Content packaging and CD-ROM delivery
 - Digital rights and authentication
- Content Based
 - The idea of courseware, course packs
 - Learning design and sequencing

Learning Networks

- Not Institution Based
 - Resource based, learning integration
 - Open access, content networks
- Not Product Based
 - Web based, content not packaged but agregated
 - Identity used to enable access, not restrict it
- Not Content Based
 - E-learning as engagement, conversation
 - Focus on services and interaction



Connective Knowledge

- Connectivism
- Connective Knowledge
- E-Learning 2.0

Principles of Connective Knowledge:

- Autonomy choice and control for the learner
- Diversity different cultures, different technologies
- Openness to read, to write
- Interaction to create community, to enquire, to assert



Application

Example - list of best practices:

- Outreach becomes communication
- Financing becomes open access (maybe?) or new models
- Assessment from tests to portfolios (maybe?)
- Teaching-Learning Process becomes self-guided
- Student Support becomes self-service (like games?)
- Technology becomes student controlled and owned
- Strategic partnerships created as needed by students

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Science --at work for___ Canada



