

The Future of E-Learning

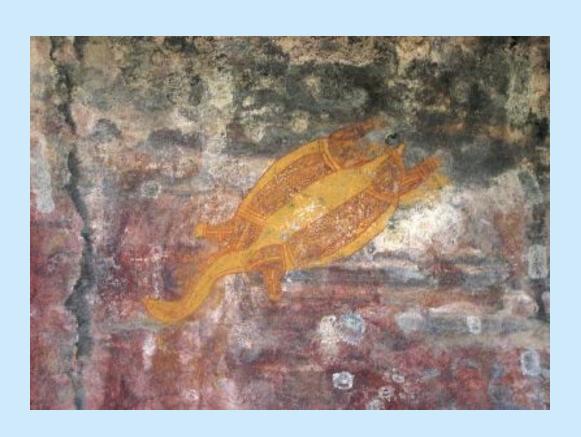
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National Research Council Canada
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We can, as we understand the prehistoric, understand the future by reading the artifacts.



Stephen Downes http://www.downes.ca

What is a Blog

- Defined by format, not content
- A series of dated entries, most recent first
- Like a journal, but not necessarily a journal
 - http://www.rebeccablood.net/essays/weblog_history.html
 - http://news.com.com/2010-1071-281560.html?legacy=cnet&tag=bt_bh
 - http://www.robotwisdom.com/weblogs/
- Some example blogs in learning technology:
 - http://www.bloglines.com/public/Downes
- Ease of use of blogging software



Using Blogs in Learning

- Replacement for typical course web page
- Link to items related to course
- Organize in-class discussions
- Organize seminars and readings group blogs
- Student created blogs as part of course work and assignment
 - http://www.crookedtimber.org/archives/000516.html



Blogging Systems

- Hosted
 - -Blogger http://www.blogger.com
 - Live Journal http://www.livejournal.com
- Server
 - Movable Type http://www.movabletype.org/
 - WordPress http://wordpress.org/

Related Systems

- Content Management Systems
 - -PostNuke http://www.postnuke.com/
 - -Scoop http://scoop.cim.com.au/
 - Drupal http://www.drupal.org/
 - -Plone http://www.plone.org/
- Wiki
 - http://c2.com/cgi/wiki?WikiWikiWeb
 - http://en.wikipedia.org/wiki/Main_Page

Blog Aggregation

- Blog Aggregation
 - -Blogdex http://www.blogdex.net
 - -Popdex http://www.popdex.com
 - -Daypop http://www.daypop.com
 - Blog Digger http://www.blogdiffer.com
 - Technorati http://www.technorati.com

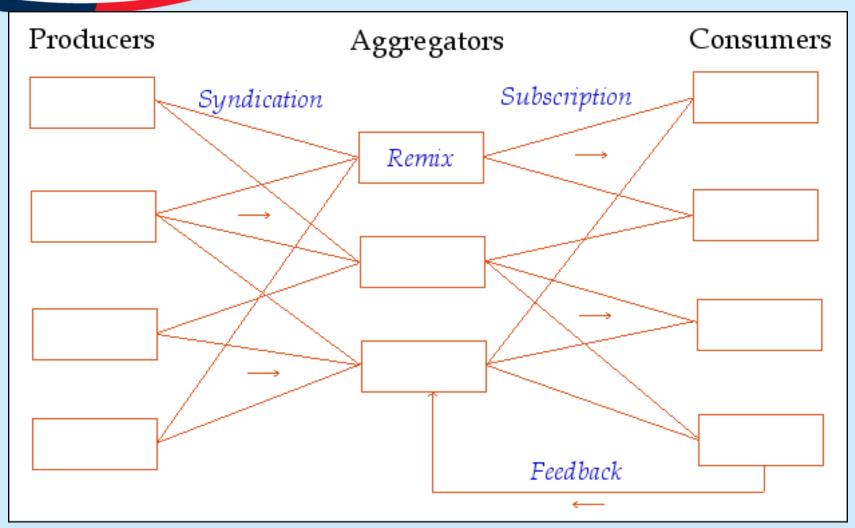


RSS Services

- RSS stands for Rich Site Summary (or Really Simple Syndication, or is actually called Atom)
- Sample: http://www.downes.ca/news/OLDaily.xml
- RSS reading...
 - -Bloglines http://www.bloglines.com



The Network is the Search





Putting It Together

- Web 2.0 :The web as platform, not medium
- Shift from 'we do it for you' to 'we do it ourselves' – that's the real story behind, eg. YouTube
- http://www.downes.ca combines content management, blog, wiki, RSS
- The idea is that no one tool does the entire job, but the collection works really well

NRC-CNRC Institute for Information Technology

New Media

- Photos Flickr http://www.flickr.com
- Music Podcasting -http://en.wikipedia.org/wiki/Podcasting
- Moblogging -http://www.typepad.com/news/2003/07/moblogging.html
- Collaborative Blogging FURL -<u>http://www.furl.net/</u>
- Social Networking Friendster, Orkut
 http://www.orkut.com LinkedIn, more...

Examples in Learning

- Weblogs at Harvard Law
 - http://blogs.law.harvard.edu/
- Weblogs at UPEI
 - <u>http://weblogs.upei.ca/</u>
- Educational Bloggers Network
 - http://www.ebn.weblogger.com/
- DDN
 - http://www.digitaldivide.net/articles/view.php?ArticleID=69
- BlogMeister http://landmark-project.com/blogmeister/

Theory and Practice

- Social Networks Duncan J. Watts
 - http://www.changethis.com/10.LongTail
- Connectionism, Neural Networks, and selforganizing networks
- Constructivism and student centered learning
- Connectivism
 - http://www.elearnspace.org/Articles/connectivism.htm



Connectivism

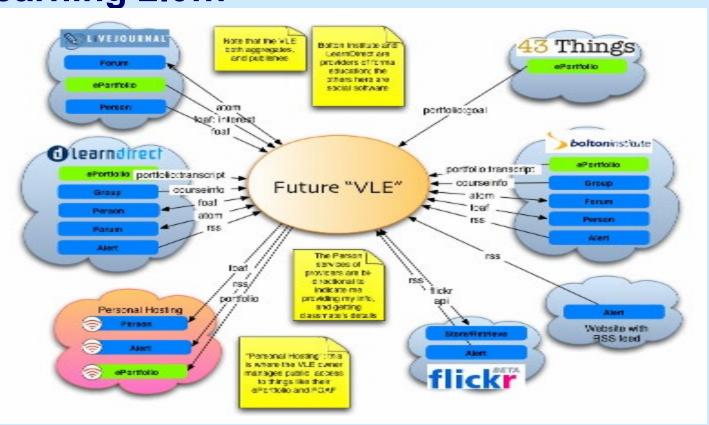
- Diversity of opinions.
- Connecting specialized nodes or information sources.
- Non-human appliances.
- Capacity to know more is more critical
- Continual learning through nurturing and maintaining connections
- Ability to see connections between fields, ideas, and concepts is a core skill

Learning Networks...

- Web of user-generated content...
- Social networks and communities (entails a genuinely portable (and owned) identity
- Networks of interactions (aggregate, remix, repurpose, feed forward) – syndication
- The personal learning centre

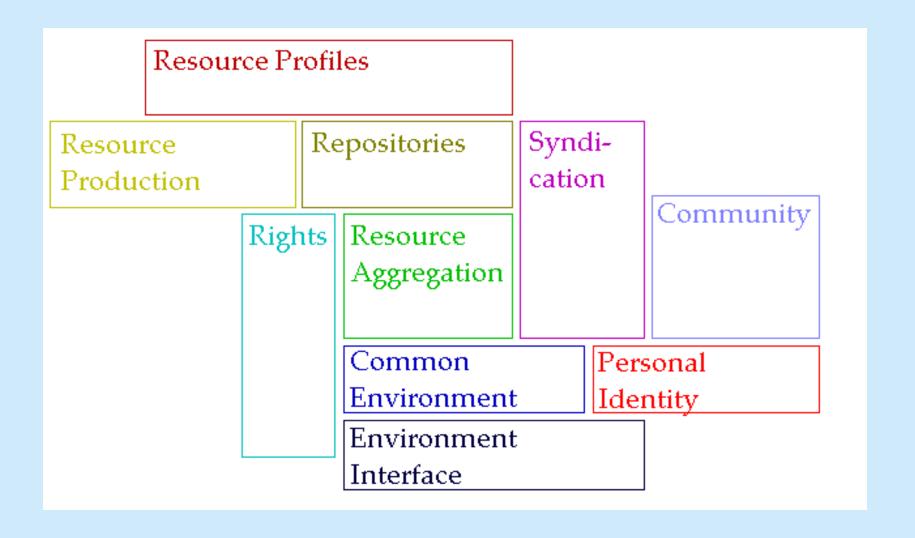


E-Learning 2.0...





Learning Network: Architecture





The Palm Tree and the Horse

Courses? No, not courses...

Learning objects not as collections or aggregations, but as elements in an ecosystem

Games, EPSS, simulations



Downes.ca

- Learning Networks
 - http://www.downes.ca/cgi-bin/website/view.cgi?dbs=Article&key=1097292310
- Educational Blogging
 - http://www.downes.ca/cgi-bin/website/view.cgi?dbs=Article&key=1097292310
- The Semantic Social Network
 - http://www.downes.ca/cgi-bin/website/view.cgi?dbs=Article&key=1076791198
- More Than Personal: The Impact of Weblogs
 - http://www.downes.ca/cgi-bin/xml/papers.cgi?format=full&id=3

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Science --at work for___ Canada



