Education in the Age of Social Computing

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http://wiki.cse.cuhk.edu.hk/irwin.king/home

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Facebook in 2004.02

2008 at **23** and **\$1.5** billion later...







Global Internet Traffic

Alexa as of May 2009	China	USA	Japan	India	Brazil	Global
J	Baidu	Google	Yahoo.jp	Google.in	Google	Google
2	QQ	Yahoo	FC2	Google	Orkut.br	Yahoo
3	Sina	Facebook	Google.jp	Yahoo	Windows Live	YouTube
4	Google.cn	YouTube	YouTube	Orkut.in	Universo Online	Facebook
5	Taobao	Myspace	Rakuten	YouTube	YouTube	Windows Live
6	163	MSN	Livedoor	Blogger	Globo	MSN
7	Google	Windows Live	Ameblo.jp	Rediff	MSN	Wikipedia
8	Sohu	Wikipedia	mixi	Facebook	Google	Blogger
9	Youku	Craigslist	Wikipedia	Wikipedia	Yahoo	Baidu
10	Yahoo	EBay	Google	Windows Live	Terra	Myspace

China's Great Firewall





Twitter in Iran's Revolution

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Rallying Iran: Time Tempers a Challenger Forged in Revolution http://bit.ly/epfBT

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Road Map

- Social Computing
- Web 2.0 and Social Computing for Education
- Categories of Educational Activities
- Examples of Social Computing for Education
 - Mashup, Twitter, facebook, VeriGuide
- Cast Studies for Education
- M-learning
- Future Research and Challenges
- Conclusions





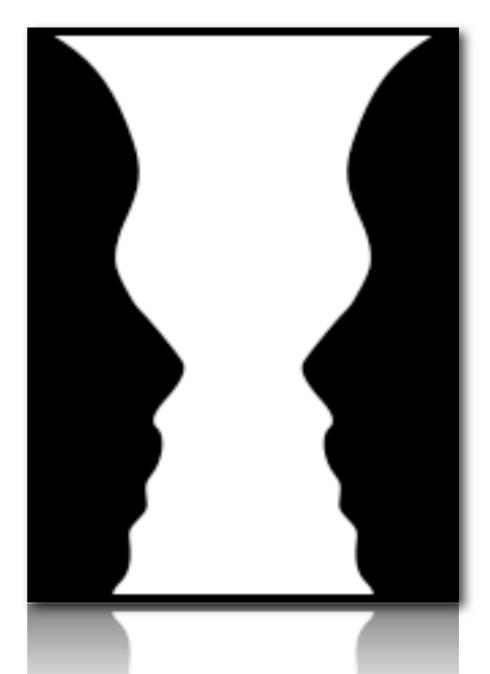
Web 2.0

- Web as a medium vs. Web as a platform
- Read-Only Web vs. Read-and-Write Web
- Static vs. **Dynamic**
- Restrictive vs. **Freedom & Empowerment**
- Technology-centric vs. User-centric
- Limited vs. Rich User Experience
- Individualistic vs. Group/Collective Behavior AttentionTrust.org krugle
- Consumer vs. **Producer**
- Transactional vs. **Relational**
- Top-down vs. **Bottom-up**
- People-to-Machine vs. People-to-People
- Search & browse vs. Publish & Subscribe
- Closed application vs. Service-oriented
 Services
- Functionality vs. **Utility**
- Data vs. Value



Web 2.0 Revolution

- Glocalization-think globally and act locally!
- Weblication-Web is the application!
- Three C's
 - Connectivity
 - Collaboration
 - Communities





Definition of Social Computing

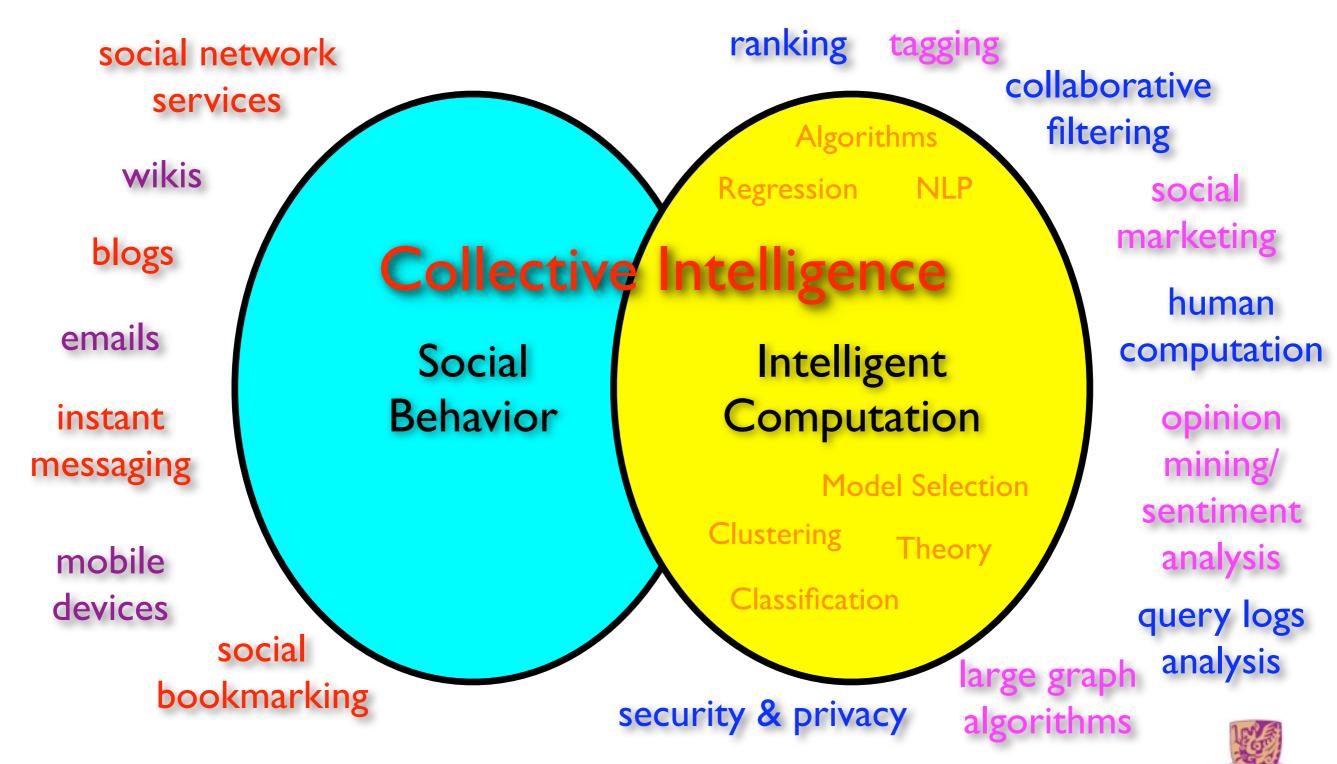
Any Computer-mediated communication and interaction



- In the weaker sense: supporting any sort of social behavior
 - blogs, email, instant messaging, wiki, social network services, social bookmarking
- In the stronger sense: supporting "computations" that are carried out by a group of people
 - recommender systems, online auctions, prediction markets, reputation systems, tagging, verification games



Social Computing



Social Networking Sites

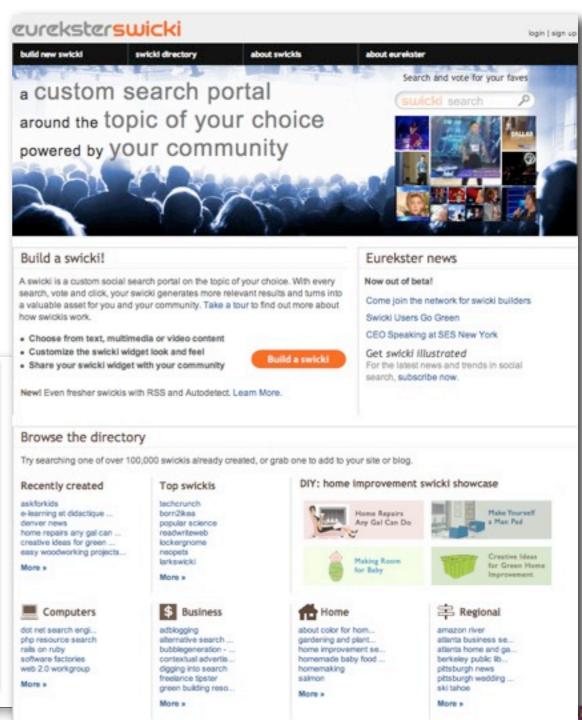
 Example of Social Networking Sites: FaceBook, MySpace, Blogger, QQ, etc.



Social Search

- Social Search Engine
- Leveraging your social networks for searching





Social Media







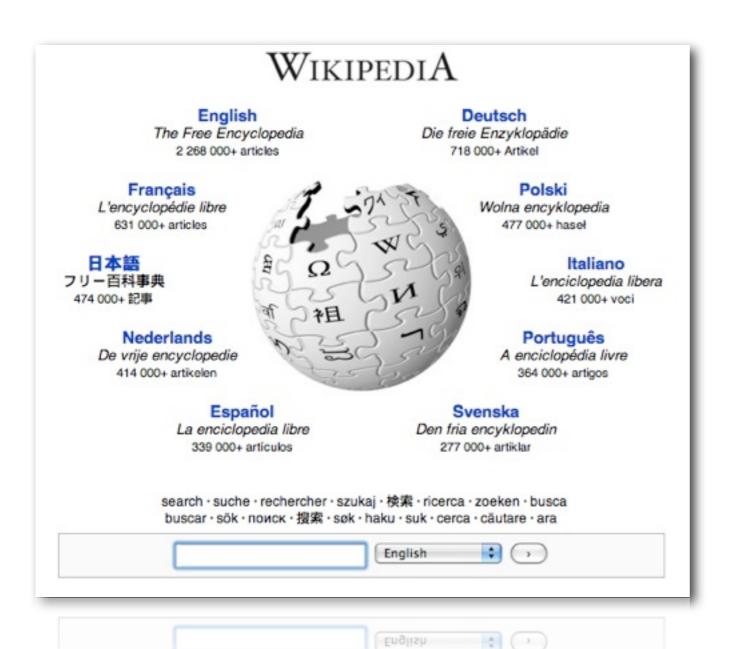
Education in the Age of Social Computing, Irwin King, IWMTE2009, June 26, 2009, Taipei, Taiwan

Social News/Mash Up





Social Knowledge Sharing









Control each knol is owned by you the author

search - suche - rechercher - szukaj - 续渠 - ricerca - zoeken - busci buscar - sők - поиск - 提票 - sek - haku - suk - cerca - căutare - ara

easy to write and manage



Social Gaming





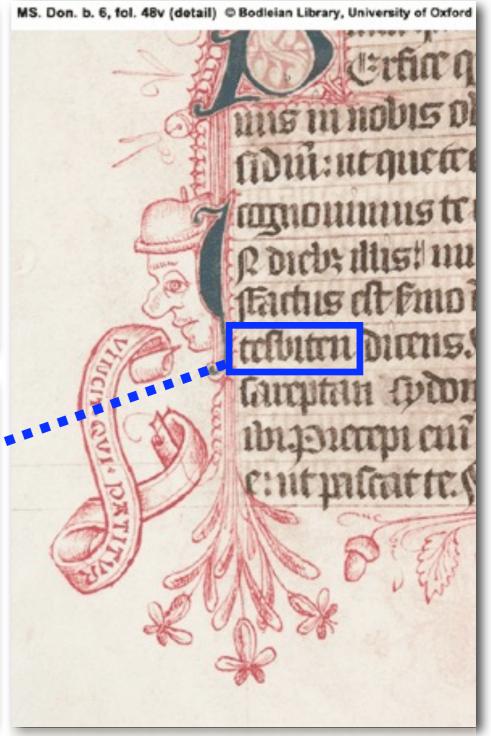
Idea of Human Computation



 Take advantage of people's desire to be entertained and perform useful tasks as a side effect

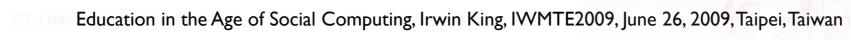
Social/Human Computation

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	Text in the box:				
	☐ I have read and agree to the Terms of Use and Privacy Policy				
	Sign Up				
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	☐ I have read and agree to the Terms of Use and Privacy Policy				
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Problems signing up? Check out our help pages

Sign Up





Human Computation



Games With A Purpose

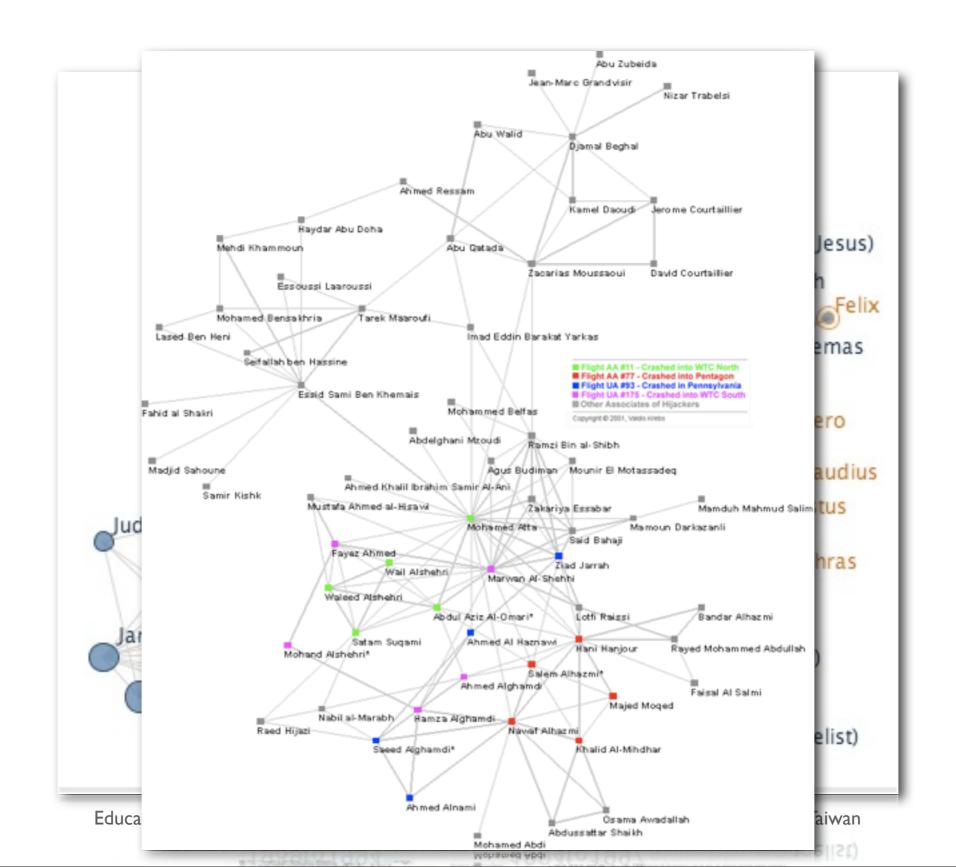


Matchin

- Image search by aesthetic value
- Babble
 - Translate foreign language into English
- InTune
 - Tags songs with description text
- Squigl
 - Image segmentation
- Verbosity
 - Database of common knowledge description

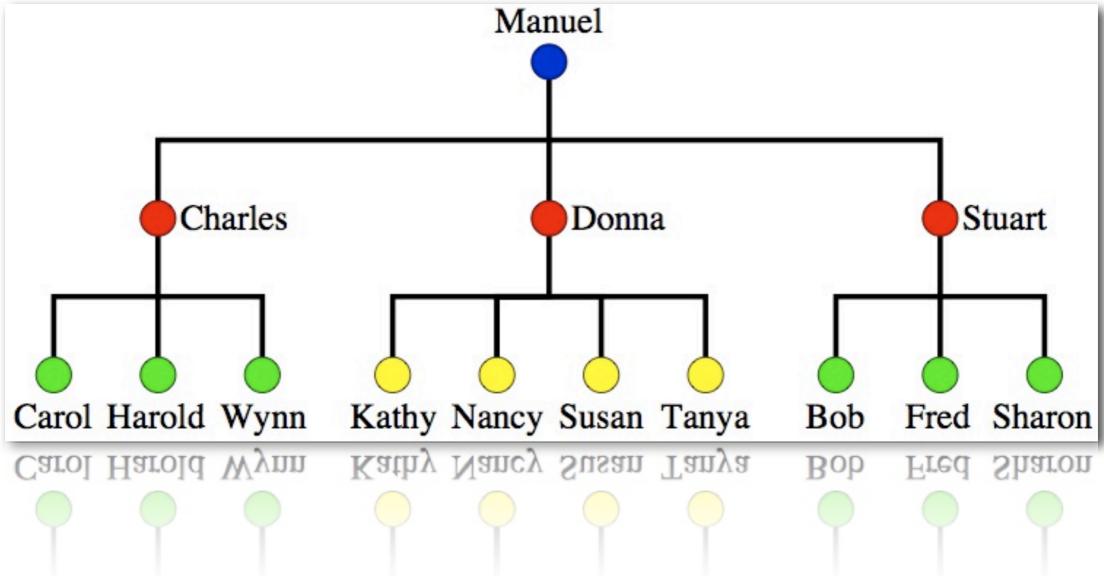


The Social Web

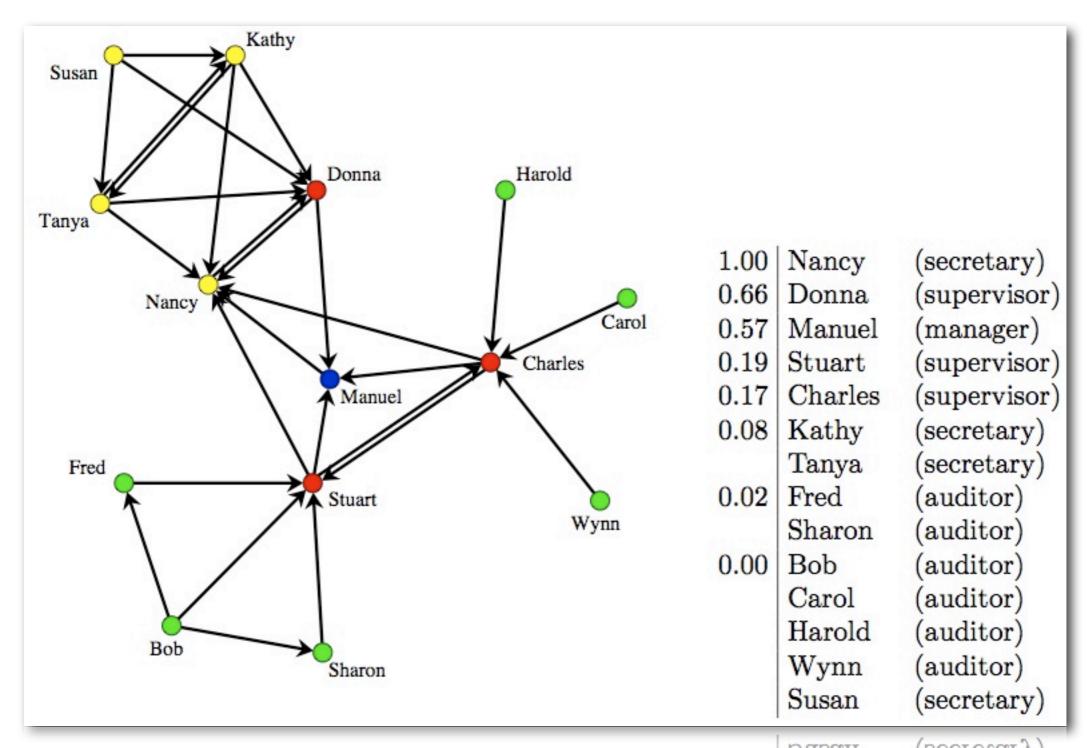




Organizational Chart



Social Network Chart





Social Computing for Education

- They can be useful for collaborative learning, selfassessment, constructivist activities, personal expression, and project-based work.
- Example: Web 2.0

It's the second generation of Internet-based services that let people collaborate and share information online in previously unavailable ways.

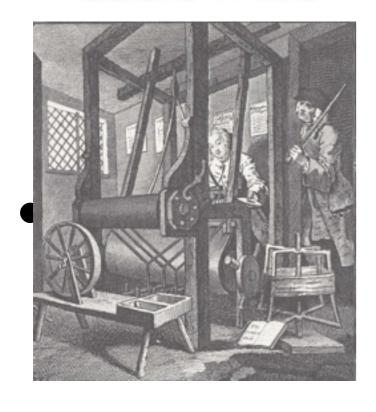


"Web 2.0 is an attitude, not a technology" - Ian Davis

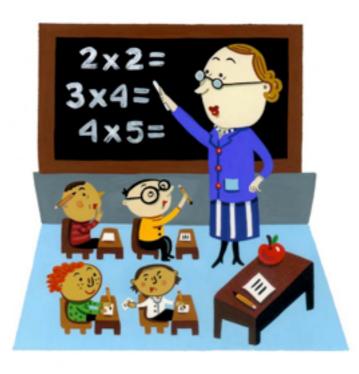


Why Social Learning?

Before 1900's



1900's



After 2000



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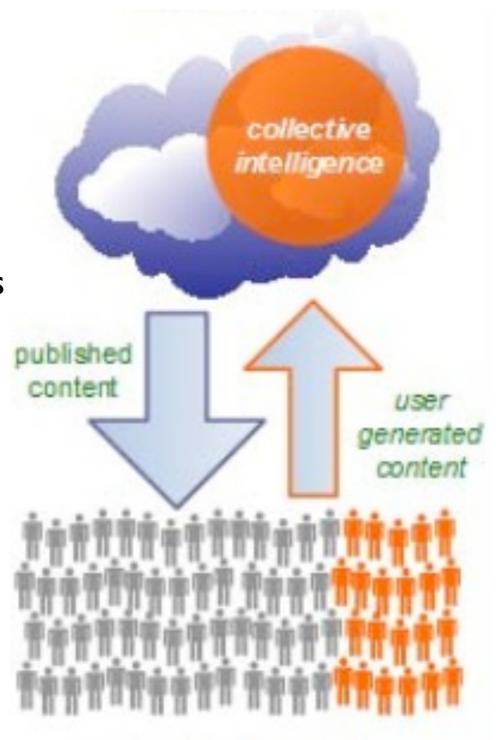
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Categories of Educational Activities

- Media sharing
- Media manipulation
- Conversational arenas
- Online games and virtual worlds
- Social networking
- Blogging
- Social bookmarking
- Recommender systems
- Collaborative editing
- Wikis
- Syndication





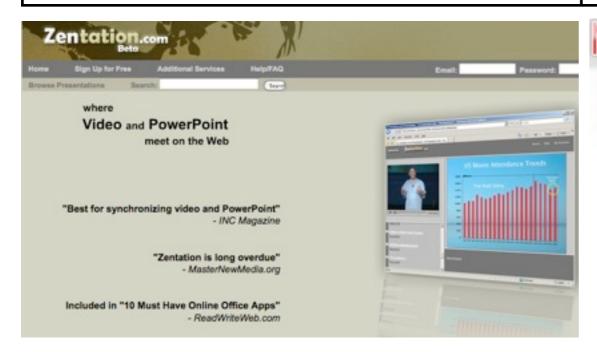
Media Sharing

General

Uploading and downloading media files for audience or exchange

Educational

Sites have emerged that welcome creative digital material organized by educators





Zentation: Share video and powerpoint

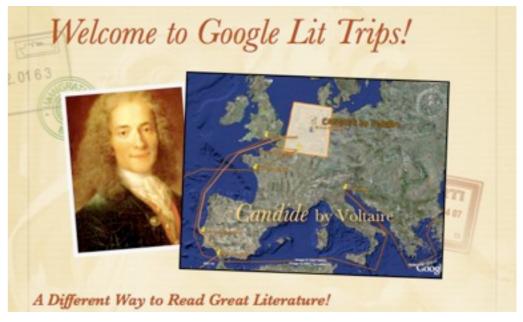
NoteCentric: Share university class notes



Media Manipulation

General	Educational		
Use web-accessible tools to design and edit digital media files	Provide graphical representations education materials		





Thumbstacks: Allow presentations to be built and played online

Googlelittrips: Link literature to places or maps



Conversational Arenas

General

One-to-one or one-to-many conversations between internet users

Educational

Support educational conversations by a variety of tools



Think: Teachers and students create learning projects, participate in a website competition...



Chatmaker: Users can create chat rooms for personal websites, blogs, newsgroups...



Online Games and Virtual Worlds

Educational General Rule-governed games or themed Develop multi-player online games environments that invite live for educational purpose interaction with other users





Current Map, Aerial Photo, Processes&Guidelia

[VATAR - Vue /

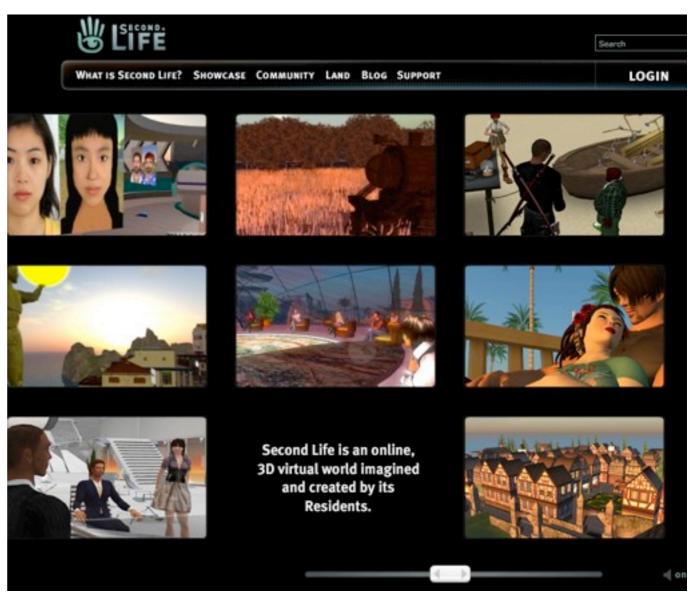
Vue: Provide a virtual educational and research institute

Schome: An education system to support people in learning throughout their lives



Online Games: Second Life

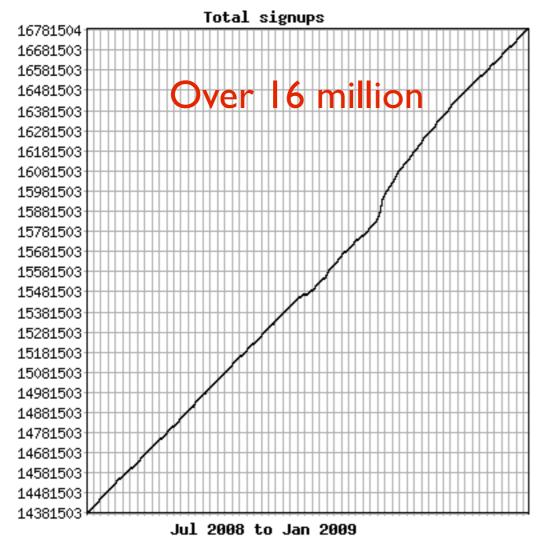
- Second Life: The Second Life Grid platform provides a powerful platform for interactive experiences
- Use it for classes, research, learning and projects
- University have set up virtual campuses where students can meet, attend classes, and create content together



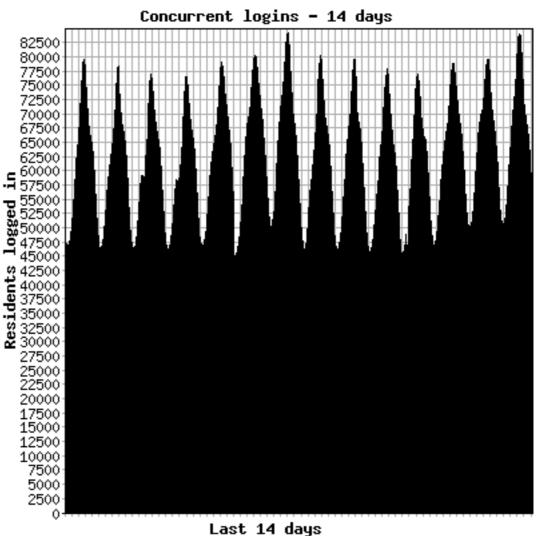


Online Games: Second Life

 Linden Lab statistical feeds for signups and active users on 14 Jan 2009

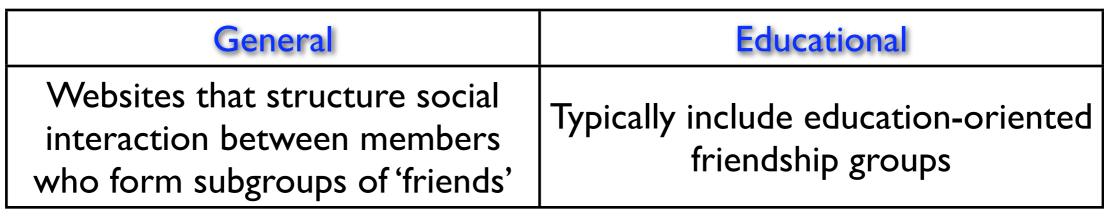


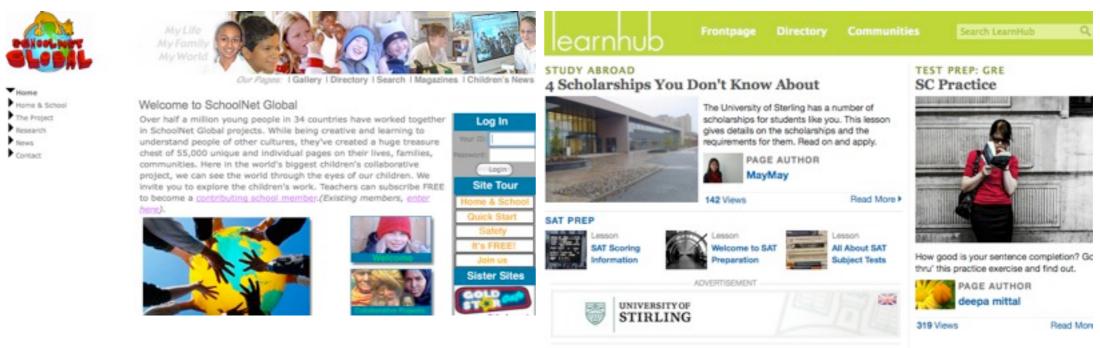
Total signups from July 2008 to Jan 2009



Concurrent online users in the last 14 days

Social Networking



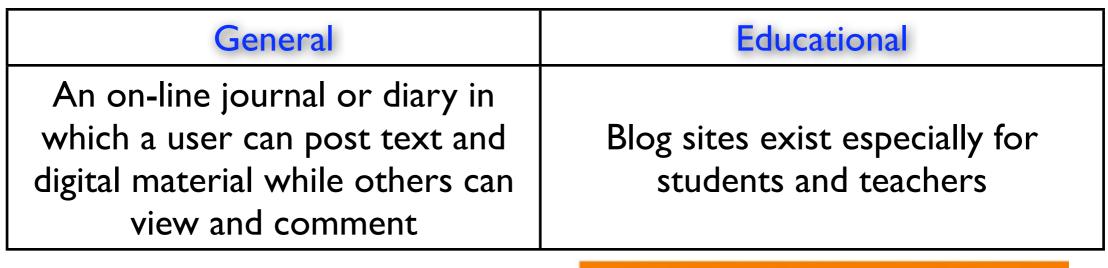


Schoolnetglobal: Provides a childoriented design and security service for cross-site collaboration

Learnhub: Teachers can create learning communities.



Blogging





Edublogs: Blogging for teachers and students

Nature: Encourages scientific authors to blog around their findings



Blogs and Risk

- What's so great about blogs?
 - Tool for personal reflection
 - Citizen journalism
 - Forum for publishing your views or expertise
 - Reader feedback
- Blogging and risk avoidance
 - Services are advertising to high school and younger audiences who are not savvy about personal security: MySpace, AOL, Xanga, Facebook
 - Posting personal info: names, birthdays, towns, dorms, etc.
 - Harassment and bullying via blog postings; libel suits



Blogging and Anonymity

- They only seem anonymous
- Identities of bloggers can be traced
- Police departments now look for blogs, Yahoo group postings, etc. when investigating crimes (recent cases in high schools north of Boston)

High schools beginning to have blogging policies for

students





Wikis

General

Web-based services allow users unrestricted access to create, edit and link pages

Educational

Sites that allow students and teachers to establish their own wiki with an educational slant



Pbwiki: students and teacher can create their own wiki

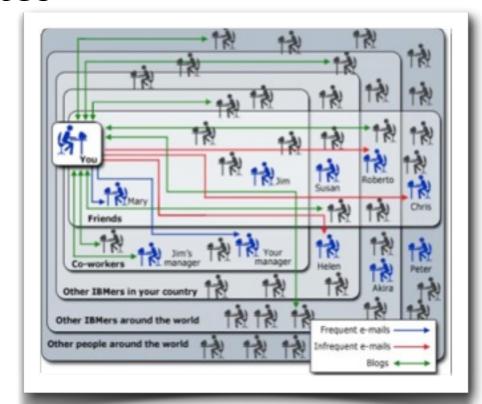


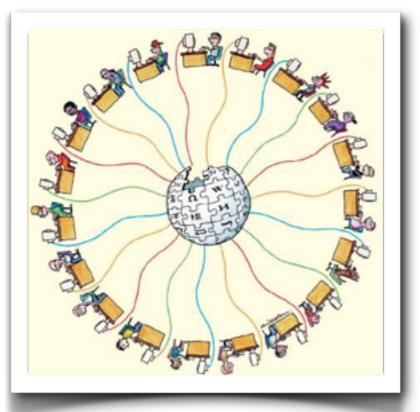
Wikiversity: devoted to learning resources, learning projects, and research for use in all levels, types, and styles of education



Blogs vs. Wikis

- Blogs generally have a topical element and a single author (but not always)
- Wikis are designed to be easy to use collaboration spaces for storage of shared material.
- Blogs are more like journals; Wikis are shared reference sites







Social Bookmarking

General

Allow users to submit their bookmarked web pages to a central site where they can be tagged and found by others

Educational

Bookmarks sharing systems designed for research and education users





BibSonomy: A system for sharing bookmarks and list of literature

Citeulike: A website for the collecting and sharing research publications



Social Bookmarking Enabling...

- Save and tag bookmarks and searches
- Share resources among peers and colleagues
- Find relevant, reliable resources more easily
- Evaluate the quality of the resources

H Diigo

Segnalo

RawSugar

Shadows

- Update courses automatically with dynamic content feeds
- Contribute to course collections, both students and instructors





Recommender Systems

GeneralEducationalWebsites aggregate and tag user
preferences to make novel
recommendationsRecommender systems designed for
research and education users



Ratemyteachers: An (infamous) example of recommendation technology in education involves user evaluation of teachers.



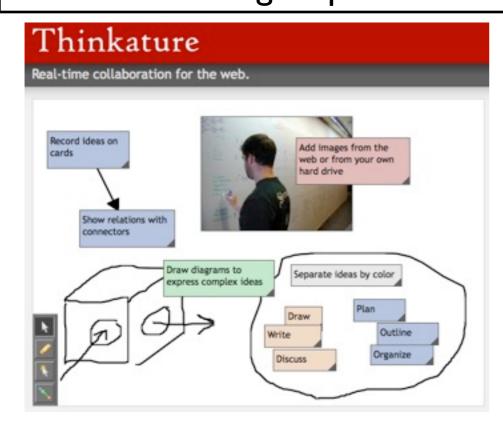
Collaborative Editing

General

Web tools used collaboratively to design, construct and distribute digital product

Educational

Text, spreadsheets and other documents can be stored centrally and permit collaborative editing



Thinknature: Websites incorporate more visual tools for collaborative pages



Bubbl.us: Some emphasizing mind-maps for brainstorming



Syndication

General

Users can 'subscribe' to RSS feed enable websites so that they are automatically notified of any changes or updates in content via aggregator

Educational

Websites from which students can take advantage of syndicated content





Podcastschool: A website contains podcasts for school students

Stanford: A website contains syndicated material sponsored by Stanford

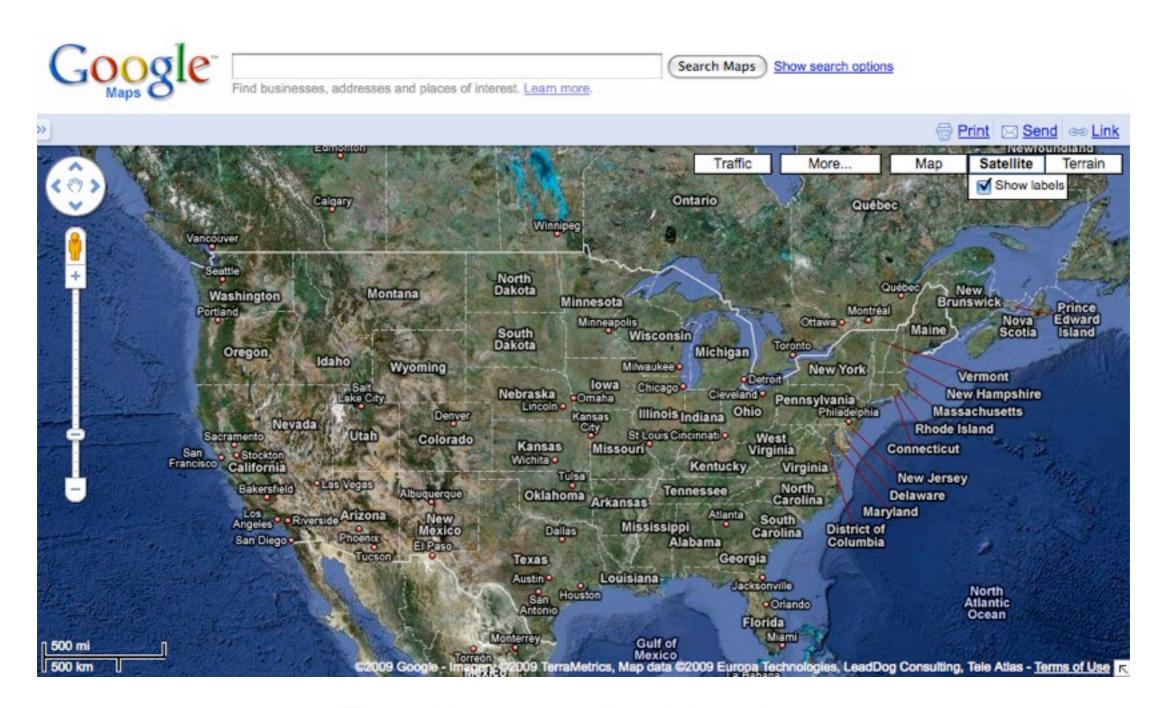


Mashup

- A mashup is a Web application that combines data or functionality from two or more sources into a single integrated application
- Prominent mashup genres
 - Mapping mashups
 - Video and photo mashups
 - Search and shopping mashups
 - News mashups



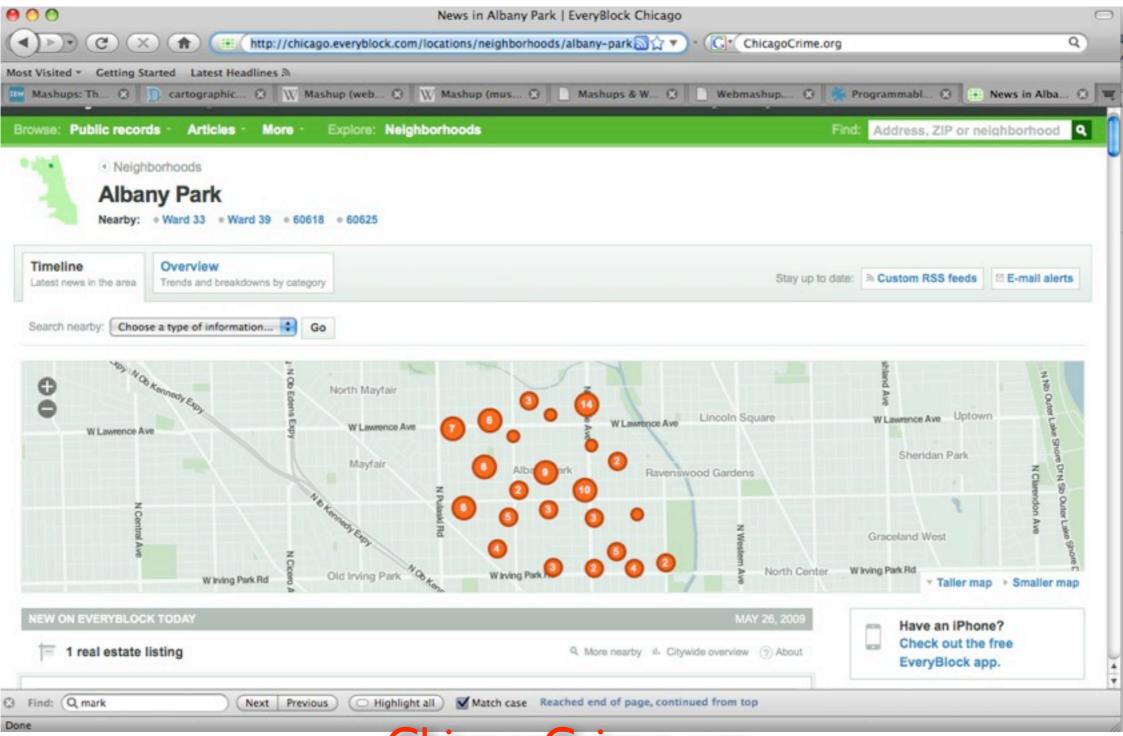
Mapping Mashups



Google map: the floodgate

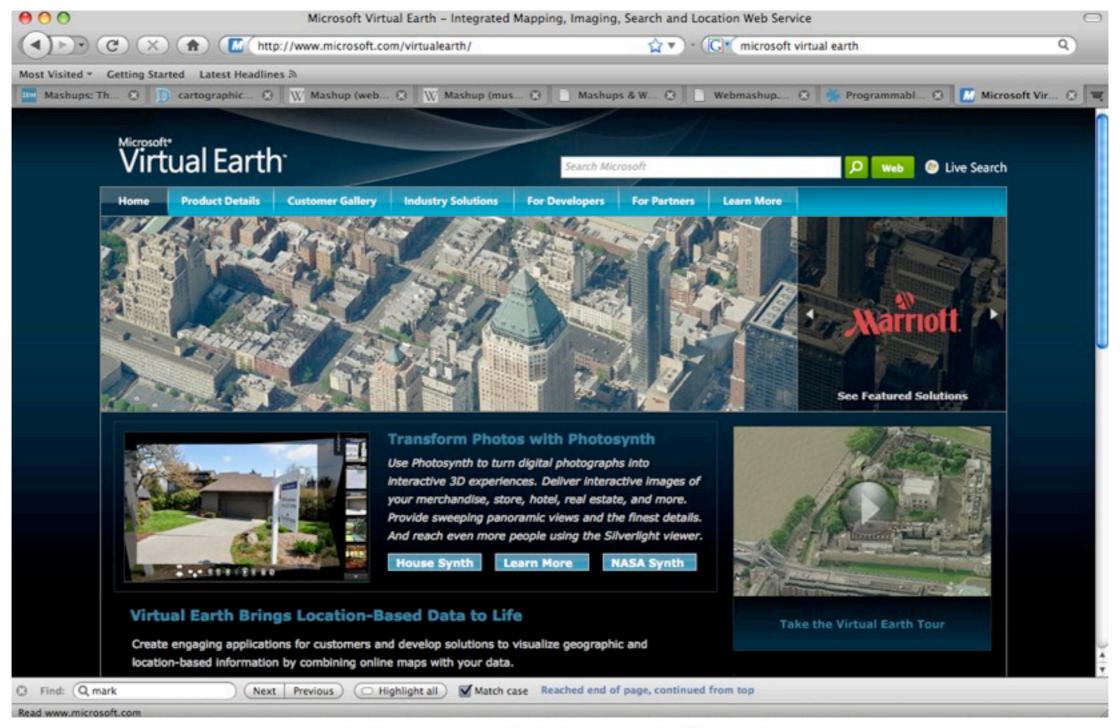


Mapping Mashups





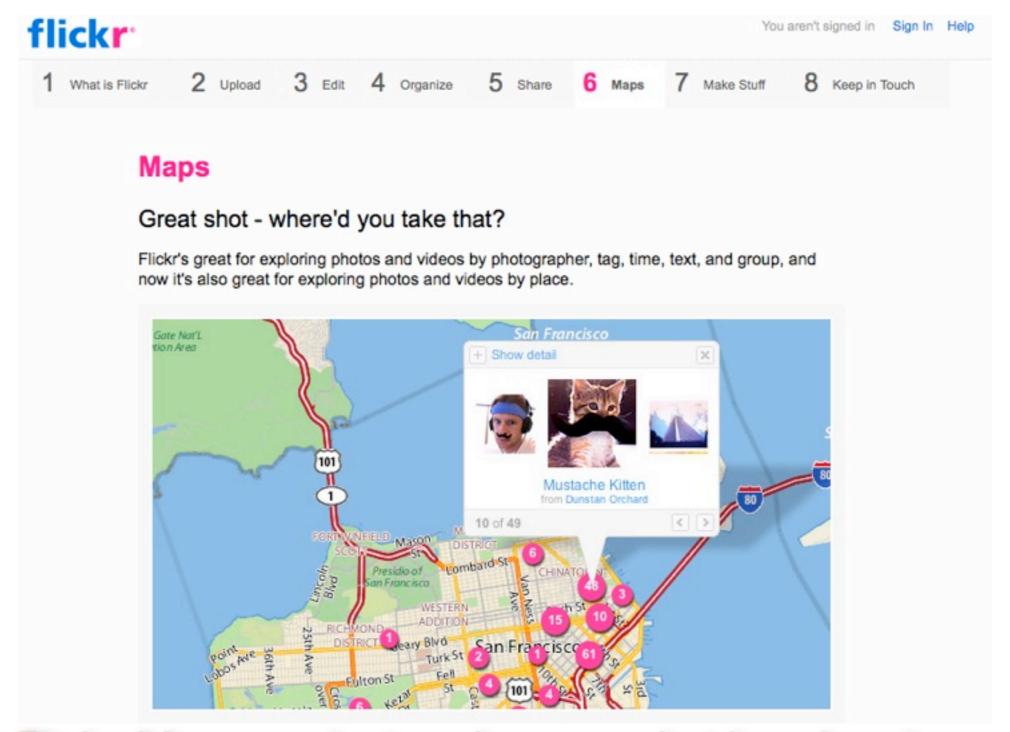
Mapping Mashups



Microsoft Virtual Earth



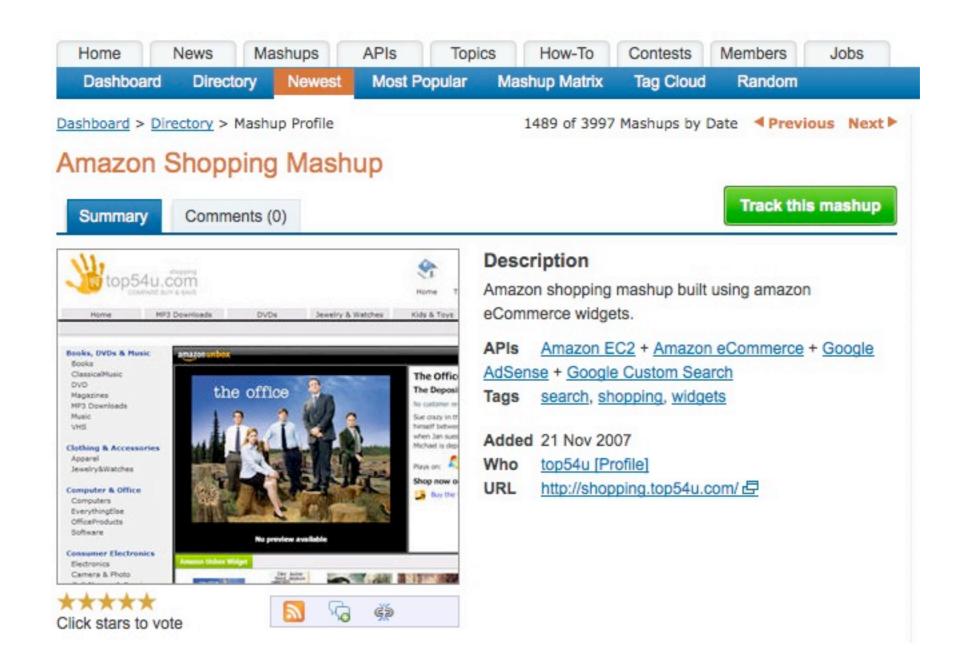
Video and Photo Mashups



Flickr Maps: exploring photos and videos by places



Search and Shopping Mashups



Amazon shopping mashup



News Mashups



why the name change?

Your Ad Here

<<< 1 2 3 4 5 6 7 8 9 ... >>>

17 new stories since your last visit

0 read

new Canonical Demos Early Stage Android-On-Ubuntu

source: slashdot

posted: Wed May 27, 2009

An anonymous reader notes Ars Technica's report from the Ubuntu Developer Summit in Barcelona, where Canonical has unveiled a prototype Android execution environment that will allow Android applications to run on Ubuntu and "potentially other conventional Linux distributions." "Android uses the Linux kernel, but it isn't really a Linux platform. It offers its own totally unique environment that is built on Google's custom Java runtime. There is no glide path for porting conventional desktop Linux applications to Android. Similarly, Java applications that are written for Android can't run in regular Java virtual machine implementations or in standard Java ME environments. This makes Android a somewhat insular platform. Canonical is creating a specialized Android execution environment that could make it possible for Android applications to run on Ubuntu desktops in Xorg alongside regular Linux applications. The execution environment would function like a simulator, providing the infrastructure that is needed to make the applications run. Some technical details about the Android execution environment were presented by Canonical developer Michael Casadevall... They successfully compiled it against Ubuntu's libc instead of Android's custom libc and they are running it on a regular Ubuntu kernel."

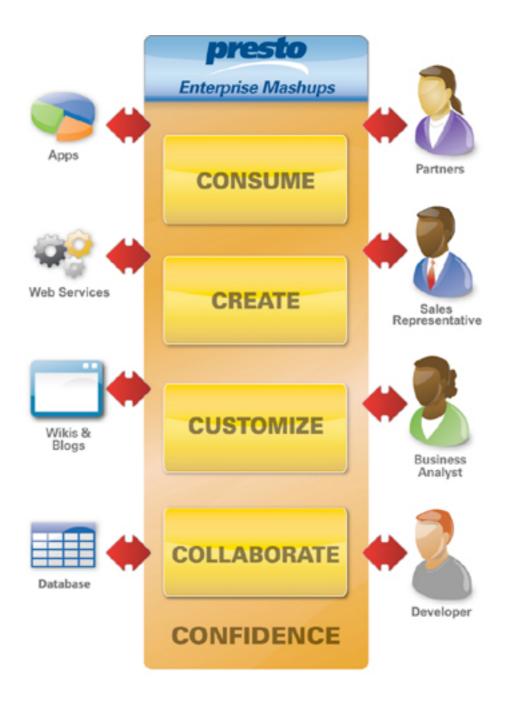


Read more of this story at Slashdot.

Doggdot.us: combines Digg.com, Slashdot.org, and Del.icio.us

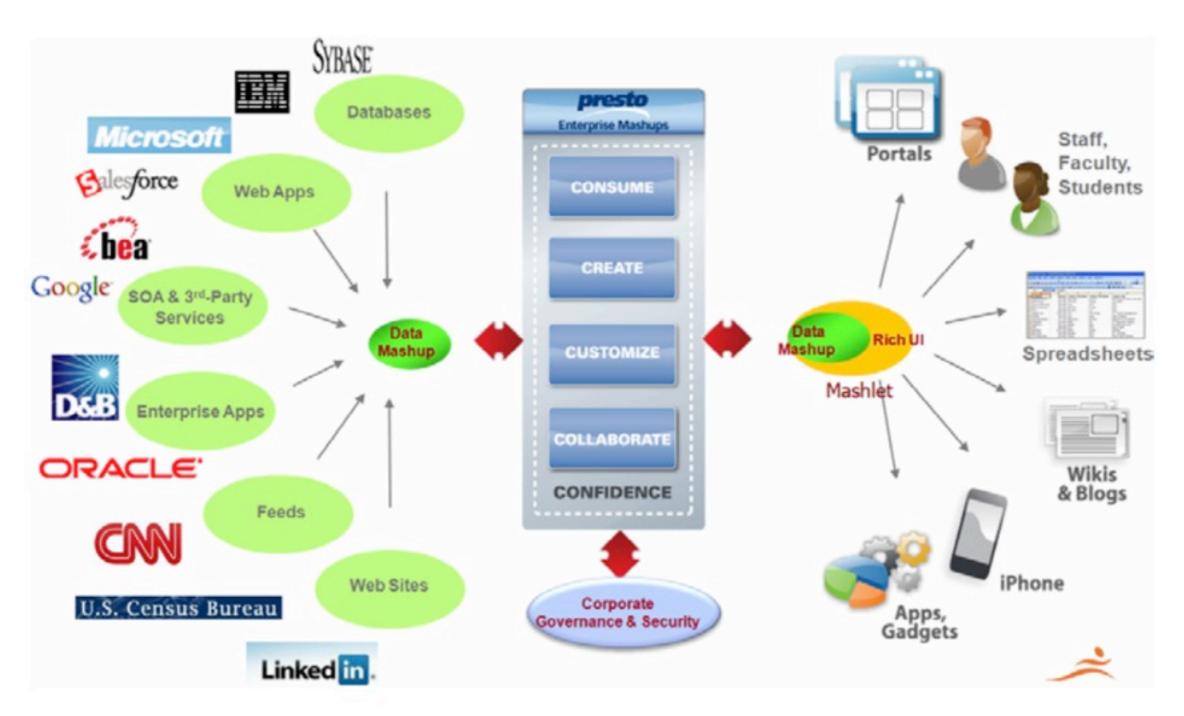


Presto Mashup Overview





Mashups for Higher Education





Mashups for Higher Education

Research & Collaboration

• Enterprise Mashups can allow individuals to quickly research, define and share ideas across different networks

Budgets and Forecasting

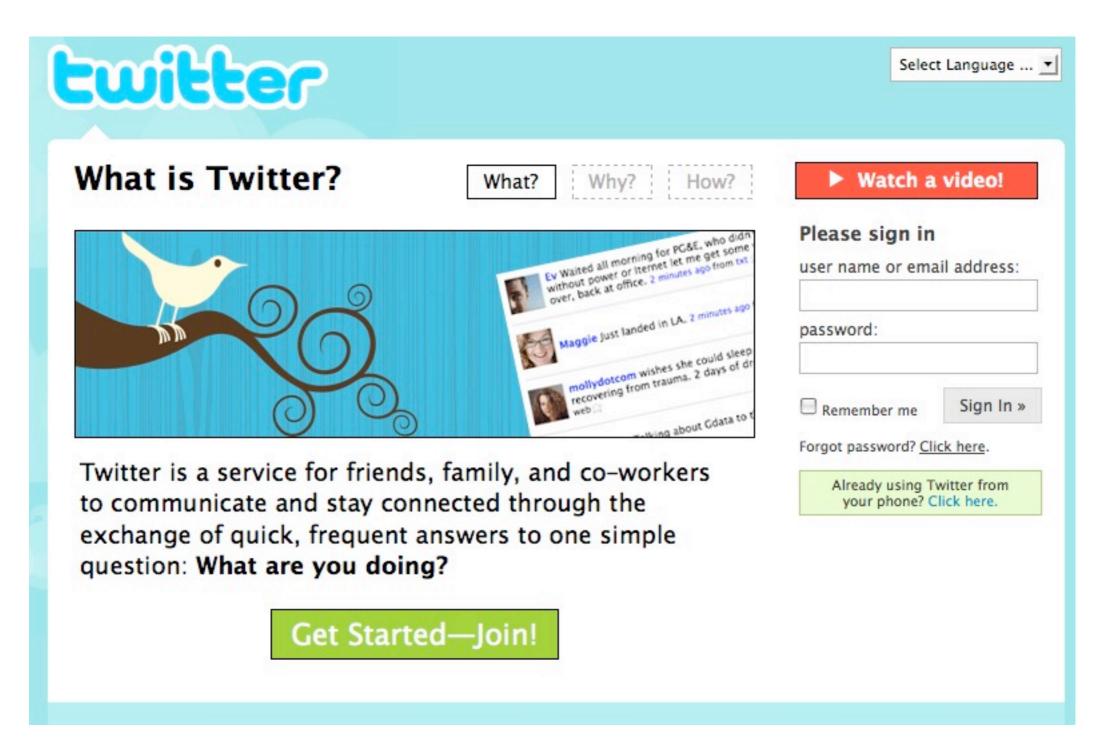
 Enterprise Mashups can provide university administrators with real time data to make faster more cost effective decisions

Social Mashups

 Enterprise Mashups can bring dynamic personalized information to university students offering an improved campus and academic experiences



Twitter



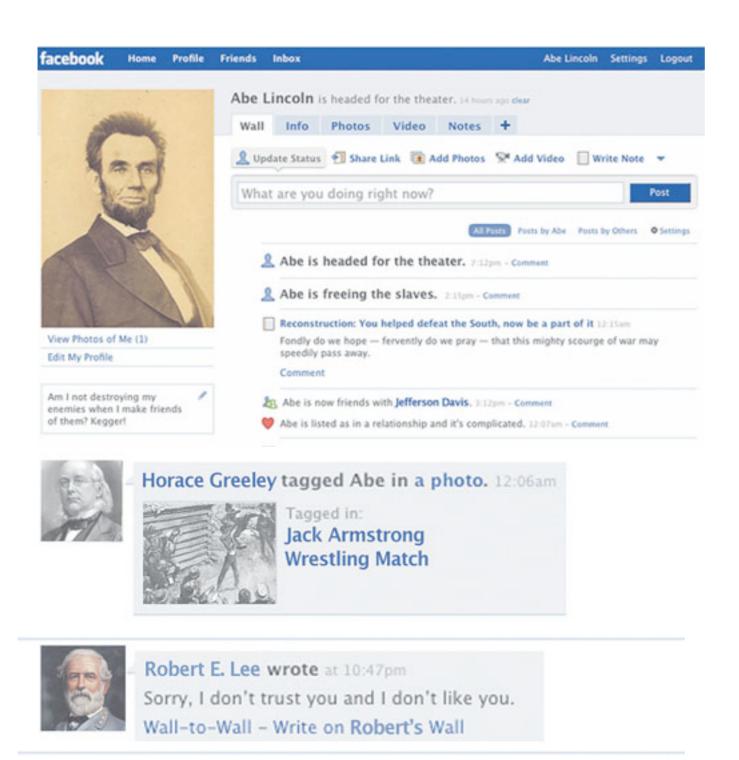


Twitter as Learning Tool

- Collect immediate feedback on courses
- Support relationship among learners
- Post tips, questions, assignments
- Build professional networks (other "like minded" people)
- Broadcast messages
- Offer collaborative file sharing
- Offer mind mapping



Facebook Learning



A terrific parody of what Abraham Lincoln's Facebook page might look like

Includes popular, and lesser-known facts, about Lincoln



Facebook Learning





got a crush on Honest Abe 5:25 Added 15 hours ago

A friend of Lincoln



Harriet Tubman wrote at 10:35pm God won't let master Lincoln beat the South 'til he does the right thing. Wall-to-Wall - Write on Harriet's Wall

Lincoln's unwillingness to emancipate the slaves

Abe is depressed and having a hard time getting out of bed today. 10:55pm - Comment

Lincoln's depression



Facebook Classroom

For students

 Books iRead, DoResearch4me, Flashcards, Wikiseek Search, SkoolPool, Rate My Professors, JSTOR Search, Notely, Study Groups, Get Homework Help, SwapRoll, Notecentric, Class Notes

For teachers and administrators

 BookTag, Webinaria Screencast Recorder, Mathematical Formulas, SlideShare

For Everyone

 Calendar, To-Do List, Zoho Online Office, Courses, Files, WorldCat, HeyMAth!, CourseFeed



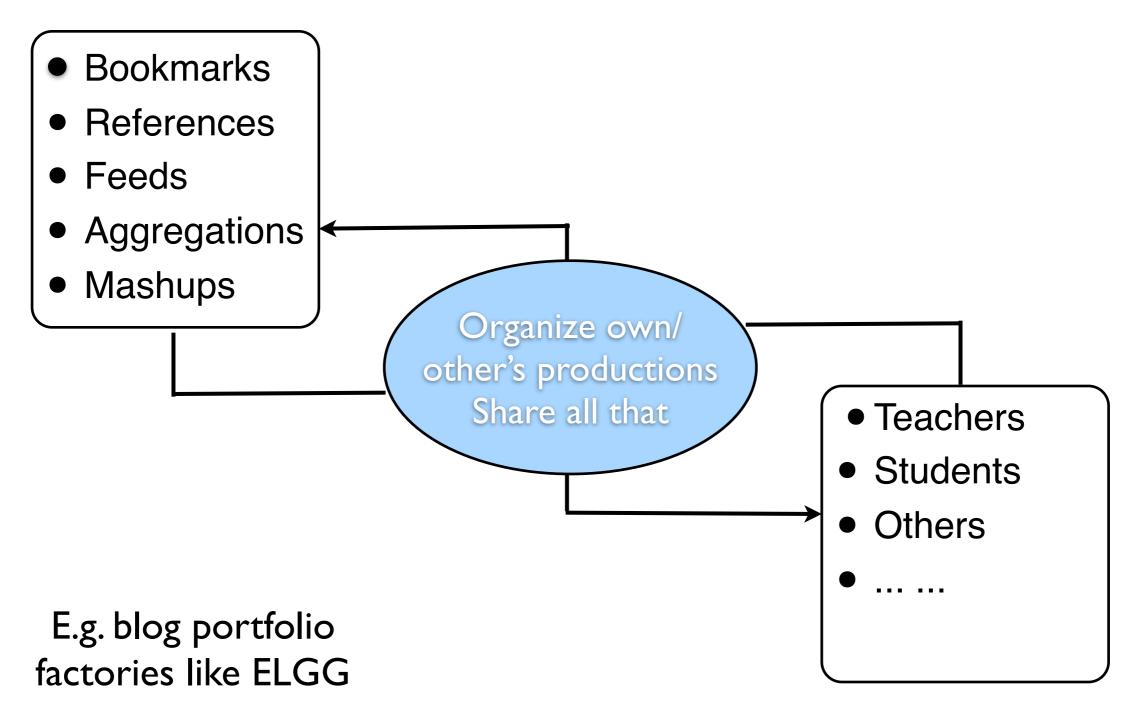
Case Studies for Education

- Manage the information space
- Write to the information space
- Computer enhanced project-oriented learning
- Personal learning environments
- Integrated authoring and management of activities
- Microlearning
- ... more





Manage the Information Space





Write to the Information Space

- Digital story telling
 - "Be there" with (multimedia) stories
 - Connect them to other stories, to resources, ..
 - Kids to it all the time, some teachers do it too
 - MySpace, YouTube, Blogs,
- Contribute to expertise
 - Add articles to wikis, post podcasts to YouTube, upload slides to Furl, ...
 - Fix / comment productions
 - Link ideas, remix productions

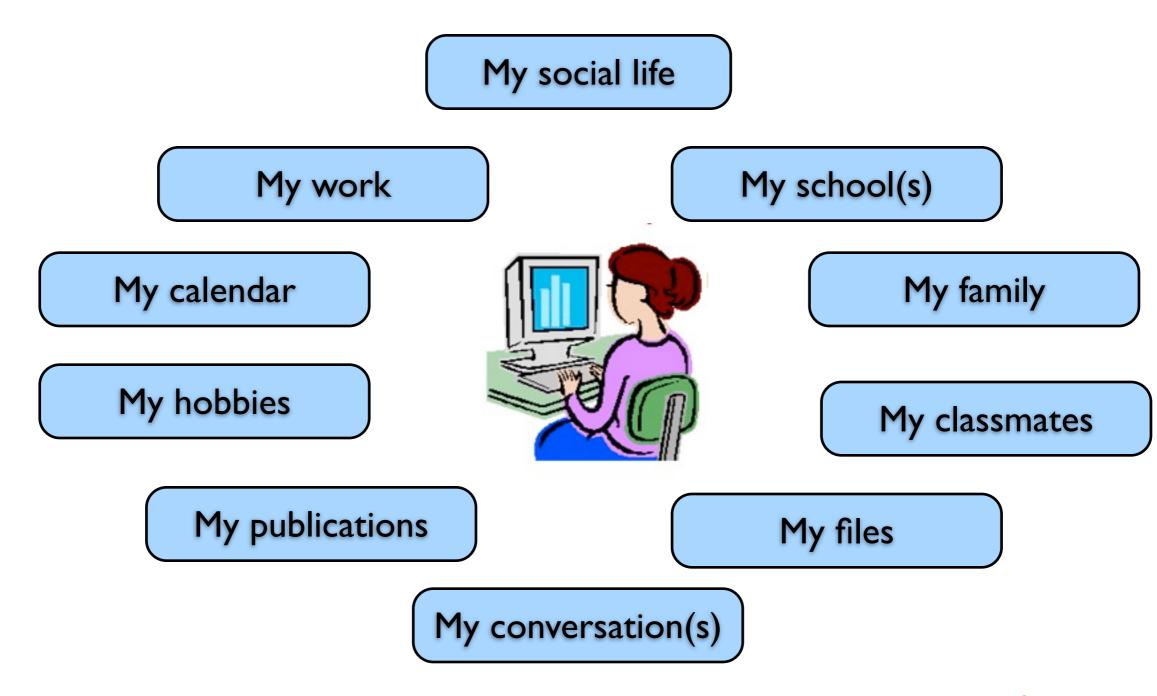


Project-Oriented Learning

- Organizing and augmenting the information space does not guarantee formal learning ...
- Teachers have to engage in storyboarding:
 - Orchestrate
 - Monitor
 - Scaffold (Tutor)
- Levels of cooperation between learners:
 - Individual, group
 - Class, school (social environments!)
 - Virtual community, world (social environments!)



Personal Learning Environment

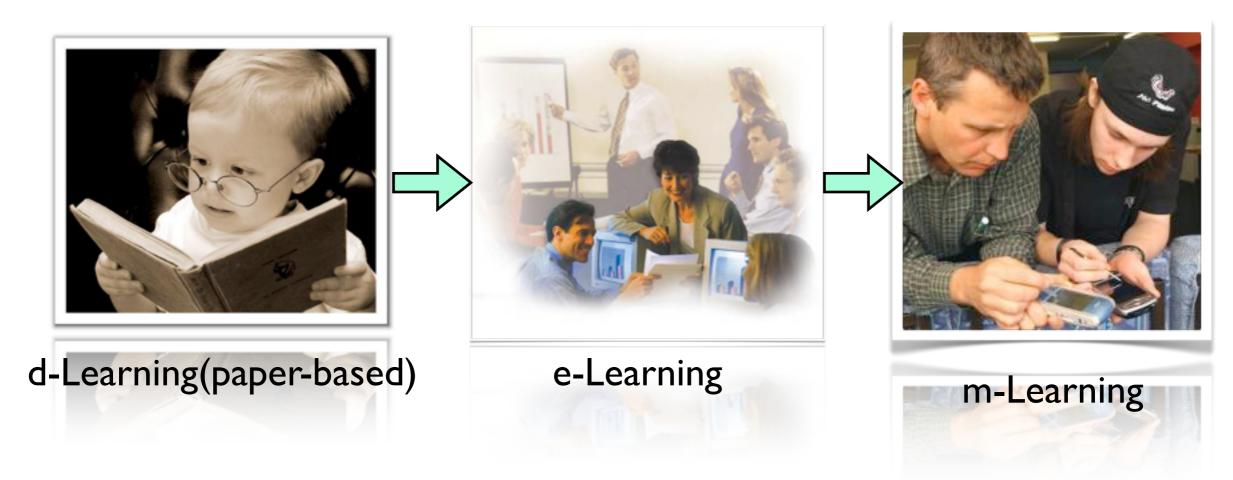


Learners do have an environment, and school is part of it But they **organize** it ...



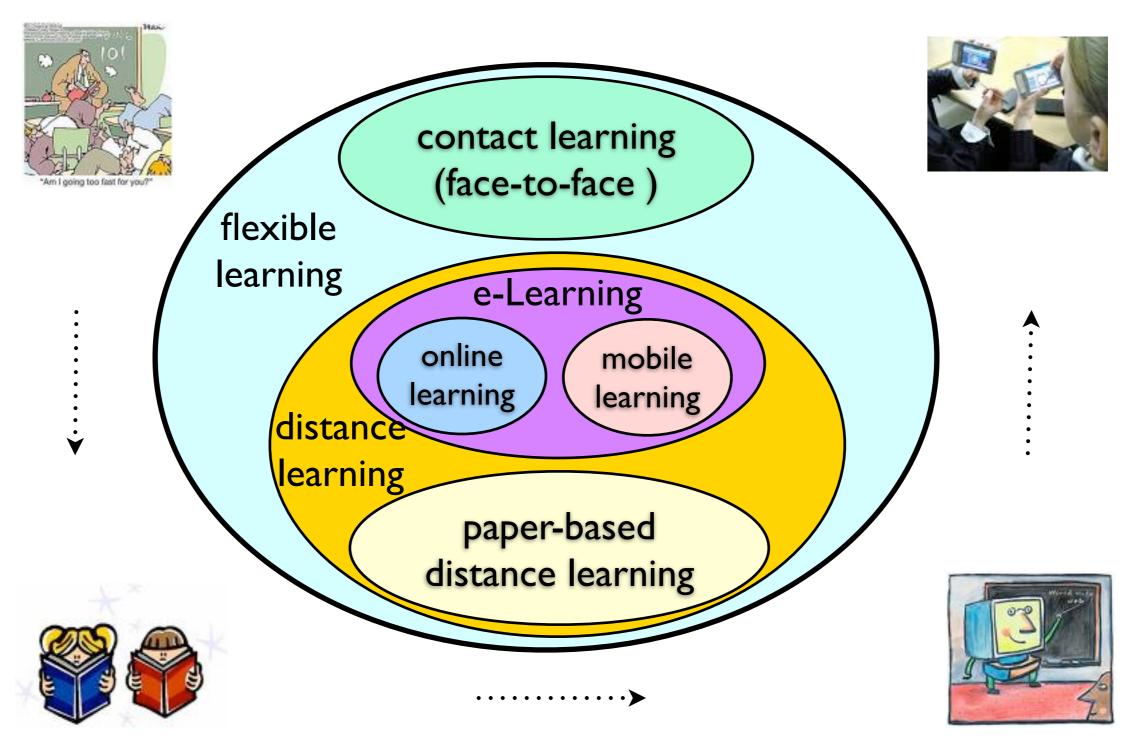
Status of Learning

 The evolution in education and training at a distance can be characterized as move from distance learning (d-Learning) to electronic learning (e-Learning) to mobile learning (m-Learning).





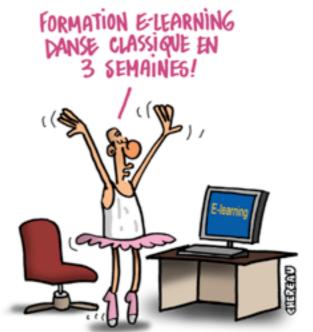
Categories of Learning



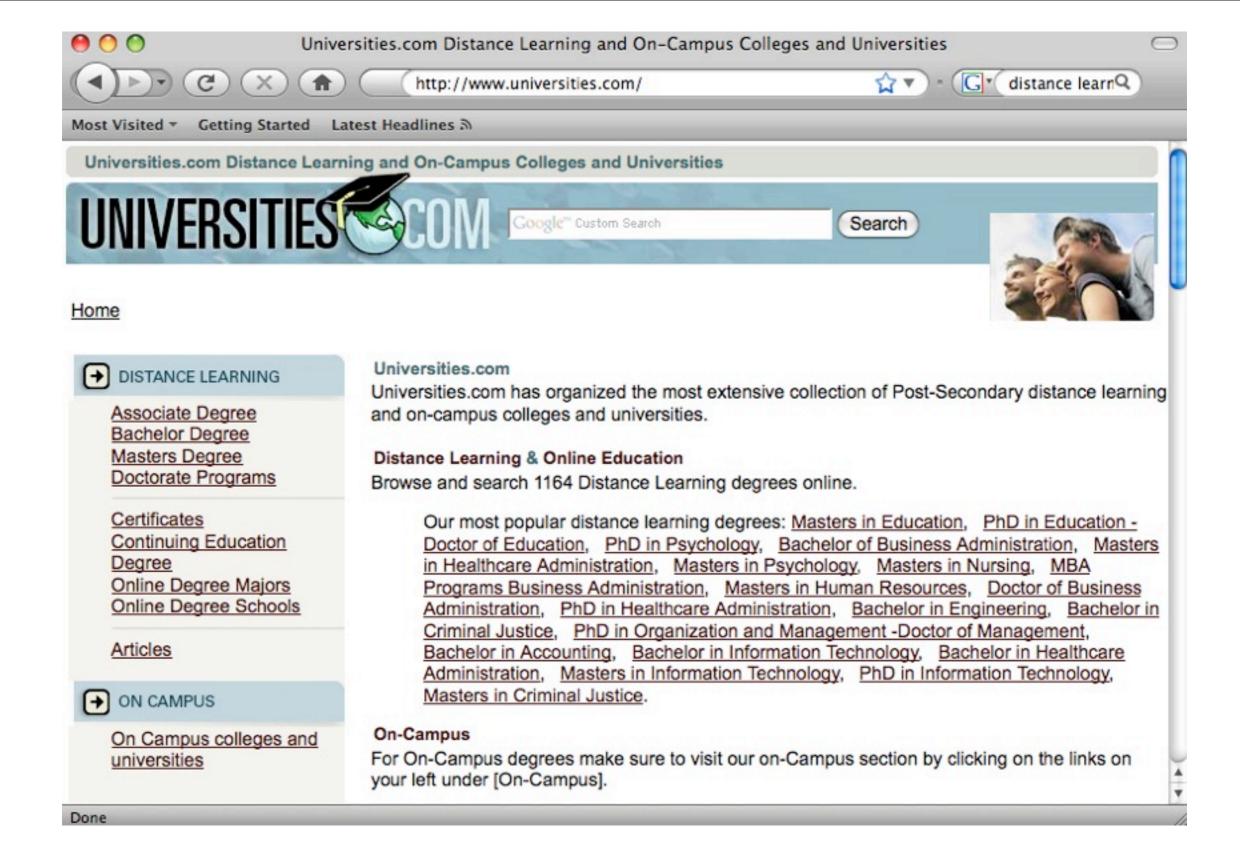


e-Learning

- A subset of technology-based training and encompasses all learning activities conducted on the internet
- Can be "live" (also known as "synchronous") learning, meaning students communicate with peers and instructors in real-time, or it can be completely selfpaced, which is known as "asynchronous" learning
- Covers a set of applications and processes, including
 - Computer-based training
 - Web-based learning
 - Virtual classroom
 - Digital collaboration







UNIVERSITIES.COM: The most extensive collection of distance learning



What is m-Learning?

New Learning Paradigms	Mobile Technologies
Individual/Learner centered	Personalized Services
Collaborative learning	Networked/Wireless
Situated learning	Mobile awareness
Contextual learning	Context awareness
Ubiquitous learning	Ubiquitous
Life long	Durable



What is m-Learning?

- Refers to the use of mobile and handheld devices, such as PDAs, mobile phones, smart phones, laptops, and tablet PCs, in teaching and learning
- Learn "on the go"!





Why m-Learning?

- Enhance learner success
 - Real world skills
 - Access your learning materials from anywhere
 - Just-in-time learning / reference tool for quick access to data in the field
 - Interact with others
 - Collaborate learning



















m-Learning Devices

- PDAs
- Tablet PCs
- Mobile phones
- Wearable computers
- Laptop computers
- E-book readers
- Hybrid devices



















Limitation of m-Learning Devices

- Small screen size and limited storage capabilities
- Batteries require regular charging
- Lack of common platform
- More easily lost or stolen
- Much less robust than desktops
- Out of date very quickly
- Security issues
- Bandwidth problems
- More difficult to upgrade





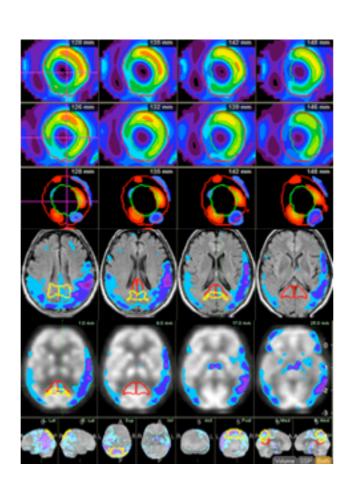
The Horizon Project

- iPhone in Medicine
- Mobile MAAP
- Mobile Initiatives at Seton Hall University
- MIT Mobile Project



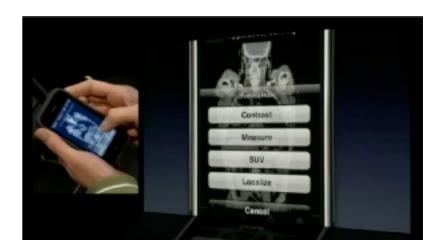
iPhone in Medicine





Multi-planar reconstruction data sets

Medical resources developed for the iPhone can be used by students and practitioners



Images



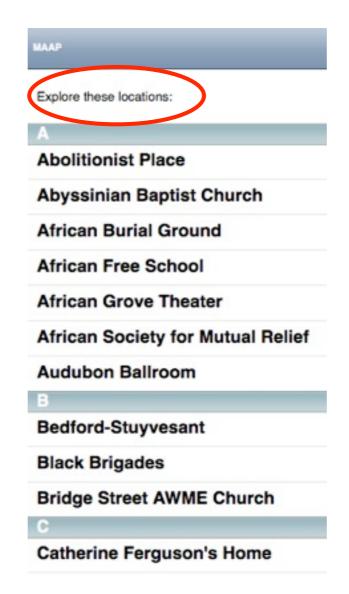
online version

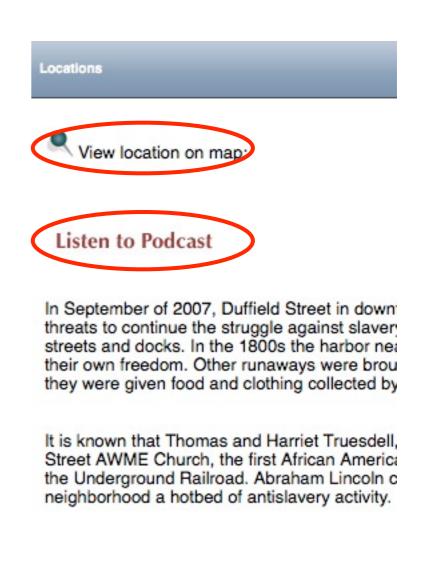
http://jeffreyleow.wordpress.com/2008/06/10/iphone-in-medical-education/



Mobile MAAP







Mapping the African American Past (MAAP) illustrates places and moments that have shaped the long history of African Americans in New York City.

http://maap.columbia.edu/m/index.html



Mobile Initiatives at Seton Hall University

 Seton Hall University is committed to providing a unique and advanced technological environment for students, faculty, administrators and other community members.

SHUmobile Blogs



Editing Video on the Nokia N95



PC Suite Download Information

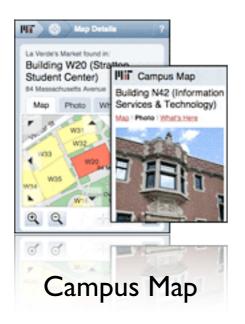
- SHUmobile Forum
- SHUmobile Wiki

http://tltc.shu.edu/mobile/



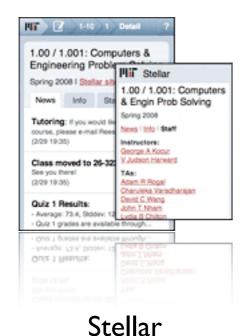
MIT Mobile Project















Emergency Information

3DOWN

http://mobi.mit.edu/

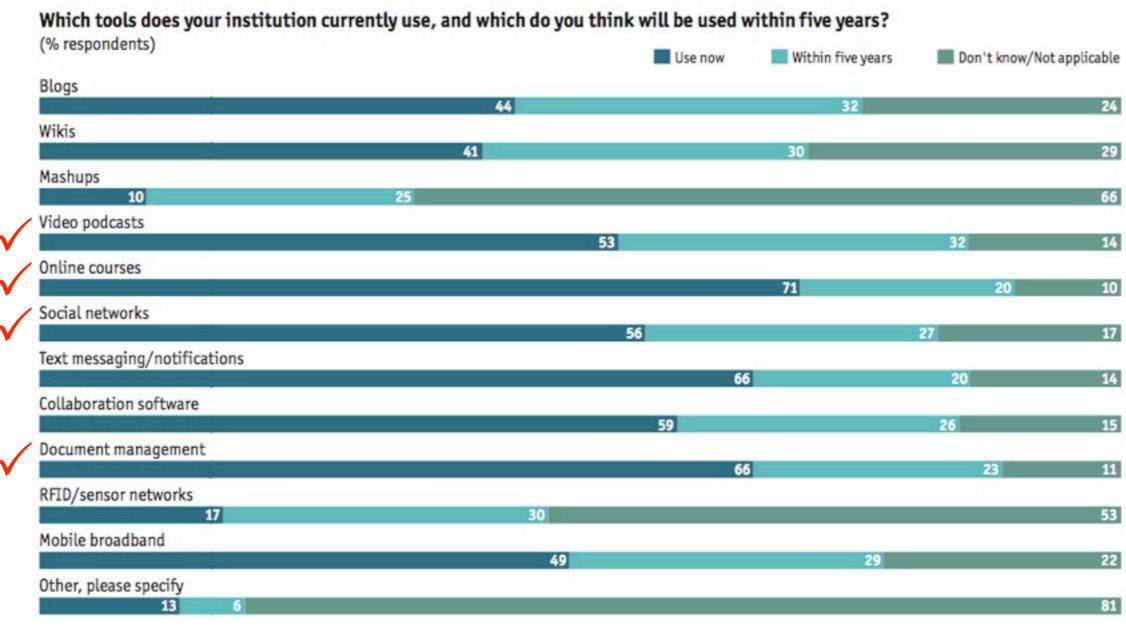


Tensions and Areas for Further Research

- Teaching vs. learning
- Walled garden vs. open arena
- Private learning vs. collaborative learning
- Digital native vs. digital immigrant
- Social networking vs. anti-social networking
- Rip-mix-burn vs. cut-tweak-paste
- Transitory marks vs. persistent marks
- Print literacy vs. digital literacy
- Serial processing vs. parallel processing



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New Challenges

- Quality and reliability of information and resources
- Responsibility and awareness of security and privacy issues
- Ethical questions, e.g. http://www.ratemyprofessors.com/, and cyberbullying
- Need for new skills (danger of new digital divides) -- both for learners and teachers



Summary

- New availability of resources for learning
 - Easy access to free and a variety of information resources
 - Education providers pressured to open up their resources to show their quality
- New learner empowerment and networks
 - New empowerment in choosing the learning provider
 - New means to express and show one's skills
- New participation in learning processes
 - Digital natives expect to use participative approaches



Acknowledgments

- Prof. Michael R. Lyu
- Prof. Jimmy Lee

- Dr. Zenglin Xu
- Dr. Zhirong Yang
- Thomas Chan (M.Phil)
- Hongbo Deng (Ph.D.)

- Zhenjiang Lin (Ph.D.)
- Hao Ma (Ph.D.)
- Haiqin Yang (Ph.D.)
- Xin Xin (Ph.D.)
- Chao Zhou (Ph.D.)





Workshop on Social Computing in Education 2009

Home New since last time: 1 file

http://groups.google.com/group/WSCE2009 Call for Papers



Workshop on Social Computing in Education (WSCE2009) in conjunction with SocialComp-09, August 29-31, 2009, Vancouver, Canada

Welcome to the workshop on Social Computing in Education (SCE2009). The workshop is held in conjunction with the SocialComp-09, Vancouver, Canada from August 29-31, 2009.

With the advent of Web 2.0 and related technologies, Social Computing has become a new paradigm in ways we communicate, learn, and educate. Social platforms such as wikis, blogs, twitters, forums, groups, podcasts, mashups, virtual worlds, and sites for social networking, recommender systems, social bookmarking, social news, knowledge sharing, etc. are generating novel ways we acquire, access, manipulate, process, retrieve, present, and visualize information in the teaching and learning space. The social media for education has become dynamic, ubiquitous, distributed, real-time, collaborative, bottom-up, many-to-many, value-based, and personalized. This workshop solicits contributions on using Social Computing and related technologies for education, the emerging applications of Web 2.0 as an educational platform, as well as privacy, risk, security, and policy issues associated in Social Computing for Education 2.0.





For this volume, King and Baeza-Yates selected some pioneering and cutting-edge research work that is pointing to the future of the Web. Based on the Workshop Track of the 17th International World Wide Web Conference (WWW2008) in Beijing, they selected the top contributions and asked the authors to resubmit their work with a minimum of one third of additional material from their original workshop manuscripts to be considered for this volume. After a second-round of reviews and selection, 16 contributions were finally accepted.

that integrate seamlessly on how we live, both in our working or leisure time.

The work within this volume represents the tip of an iceberg of the many exciting advancements on the WWW. It covers topics like semantic web services, location-based and mobile applications, personalized and context-dependent user interfaces, social networks, and folksonomies. The presentations aim at researchers in academia and industry by showcasing latest research findings. Overall they deliver an excellent picture of the current state-of-the-art, and will also serve as the basis for ongoing research discussions and point to new directions.



springer.com

World Wide Web







Economist Intelligent Unit 2008

In what ways do new technologies pose the greatest challenges and risks to colleges and universities? Select up to three. (% of respondents)

Potential increase in student plagiarism

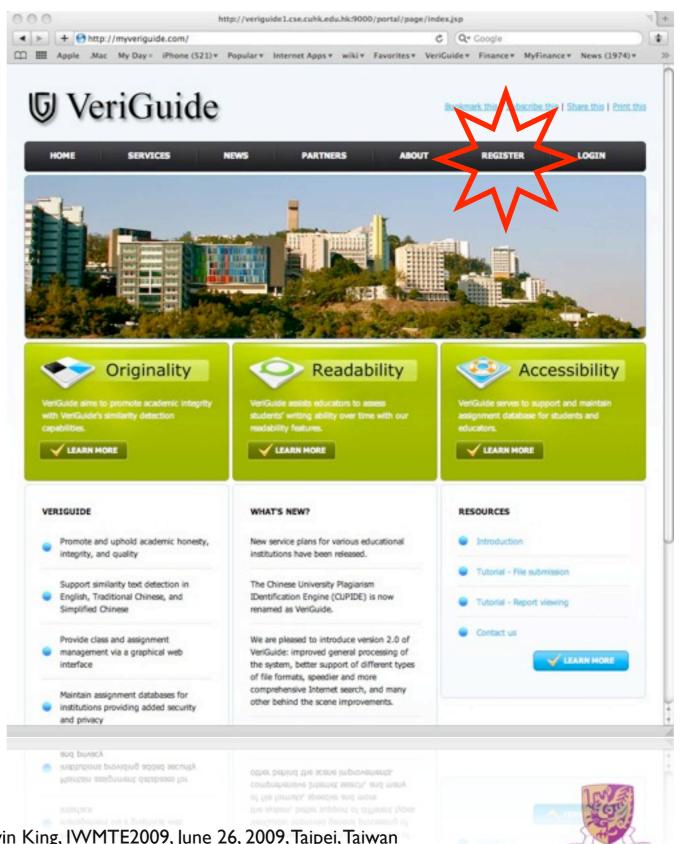
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Potential increase in student plagiarism



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- II. MEMPM Matlab Toolbox
- 7. Conference Activities



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- Chair, SIG and Regional Chapters Committee for Asia and the Pacific, (INNS)
- Director of International Programmes, Faculty of Engineering (ERGIP)
- Member of <a>RGC Engineering Panel, The Hong Kong SAR Government
- Co-Founder, Co-Principal Investigator and Chief Technologist, The <a>VeriGuide Project
- General Co-Chair, Workshop on Social Computing in Education (WSCE2009), in conjunction with SocialComp'09
- General Co-Chair, Workshop on Social Web Search and Mining, in conjunction with CIKM2009
- Program Co-Chair, The first SIGMM Workshop on Social Media (WSM2009) in conjunction with ACM Multimedia 2009 (
 <u>ACM MM'09</u>), October 19-24, 2009, Beijing China

Research interests: Machine learning, social computing, web intelligence, information retrieval, multimedia information processing

Caltech's motto, "...the truth shall set you free."

News

Keynote, Invited Talk, Advisory Committee, Technical Program Committee Member, Reviewer, Panel Chair, Panelist, or Tutorial Speaker at () ICONIP'09, () CollaborateCom2009, () CIKM2009, () ACML'09, () ICCCI'09, () APSIPA ASC 2009, () WI'09, () SocialCom-09, () SIGIR2009, () IJCAI-09, () CASoN2009, () IWSSIP2009, () IJCNN2009, () FAW2009,

http://www.cse.cuhk.edu.hk/~king





