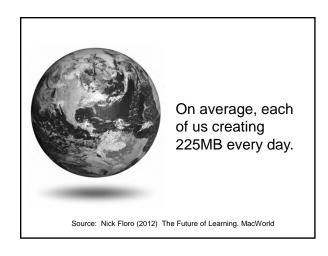


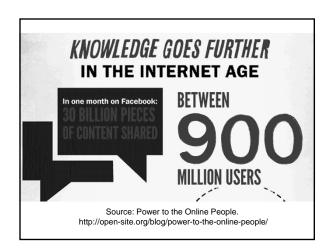
Recent Trends

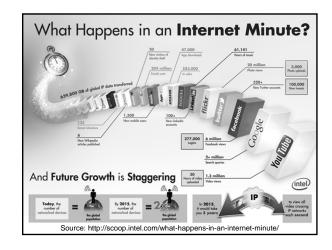
- · Information explosion
- Net Generation and iGeneration
- Web 2.0 and social media
- Learner-centered design
- Connectivism
- · Personal learning environment
- · Open learning

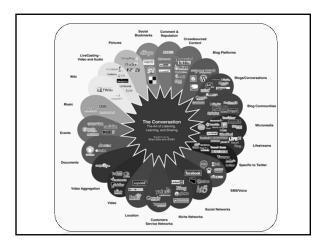












Net Generation

- Born after 1980
- · Also called Y Generation or Digital Natives
- · Highly networked, interactive, and social
- · See technology as an essential part of their lives
- 1st generation to be producers of content, not just consumers
- Prefer multi-tasking and quick, non-linear access to information
- · Visually-oriented
- Rely heavily on communications technologies to access information and to carry out social and professional interactions.



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iGeneration

- Generation Z or iGeneration after 1997
- · iGeneration has no OFF switch
- · Technology is a part of their DNA
- Represent the "individualized" nature of their media
- · Early introduction to technology
- Text me, don't call me. Prefer texting and social networking for communicating than talk face-to-face or on the phone
- · Desire for immediacy
- Technology is not a tool, but a part of life
- · Ability to use technology to create a vast array of content

Sources: Jayson, S. iGeneration has no off switch. USA Today. Feb 10, 2010 Nizram. Rise Of The iGeneration: Don't Call Me, Text Me. Feb 8. 2010



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Learner-Centered Design

- Puts the learner and his/her learning process in the center of every decision during design and delivery
- · Caters for diverse learner needs and characteristics
- Offers openness to experience and personal growth, cocreation of knowledge, and personal regard for each individual
- Facilitates learners in becoming active, self-directed and self-responsible participants in the learning process, in which peers and the instructor serve as facilitators, motivators and personal resources

Sources: Learner Centred Design: Learning/Design as Reflection and Adaptation. http://www.practicalpatternsbook.org/book/learner-centred-design



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Connectivism



- Knowledge is distributed
- Knowledge is interconnected
- Knowledge is personal
- Learning is a process of connecting specialized nodes or information sources

- Steven Downes

"...a form of knowledge and a pedagogy based on the idea that knowledge is distributed across a network of connections and that learning consists of the ability to construct and traverse those networks. " – George Siemens

Source: http://www.elearnspace.org/media/Professional Development/player.html



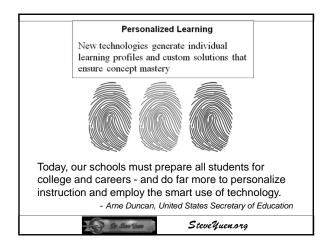
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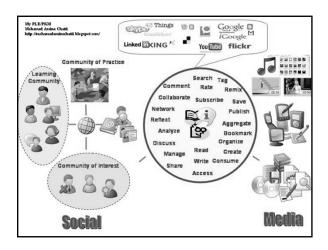
Personal Learning Environment

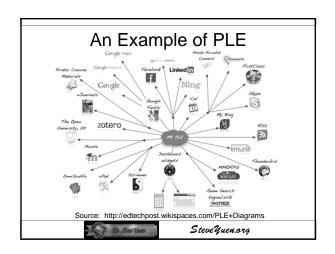
- Personalization of learning
- Learner-centered technologies
- Learners develop, control, and organize their own PLE lifelong learning
- Collaborative, informal, and on-demand learning

Denise Vincent (2010) Emerging technologies and the future of post-secondary education. www.slideshare.net/deevin/











Open Learning Movements

- OpenCourseWar OpenStudy e Consortium
 - OER Glue
- MOOC
- CK-12
- edX
- Khan Academy
- Flat World Knowledge
- Curriki



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E-Learning 1.0

- Includes all forms of electronically supported or enhanced teaching and learning
- The early promise of e-learning has not been fully realized ... (O'Hara, 2006; Downs, 2005)
- Learning content is provided by courseware authors, structured into courses by learning management system (LMS), and consumed by students
- Employs the use of LMS that is often cumbersome and expensive - and which tends to be structured around courses, timetables, and testing
- Often driven by needs of the institution rather than the individual learner
- Traditional e-learning is not flexible and is not integrated with the Web



E-Learning 2.0

- The second generation of e-learning
- Takes a "small pieces, loosely joined" approach that combines the use of discrete but complementary Web 2.0 tools to support the creation of ad-hoc learning communities
- Uses socially based software: collaborative, iterative, inclusive (discussion) = knowledge building and sharing
- Includes: blogs, Wikis, podcasts, social tagging and forums



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E-Learning 2.0

- Allows learners to easily access content through search, aggregation, and tagging
- Capitalizes on many sources of content aggregated together into learning experiences and utilize various tools including online references, courseware, knowledge management, collaboration and search
- Allows learners to create content and to collaborate with peers to form a learning network with distribution of content creation and responsibilities



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E-Learning 2.0 Features

- · Facilitation of content authoring
- · Knowledge and information sharing
- Diversity of learning content and media
- Ease of collaborative learning

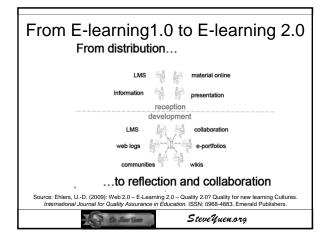
Source: Trondsen, E. (2006). Perspectives on eLearning 2.0. Learning on Demand. SRI Consulting Business Intelligence. http://goo.gl/yG1vj



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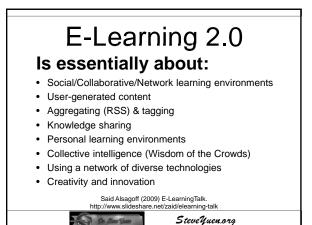
E-learning 2.0 environments equip learners with a range of technologies which allow users to contribute content, connect, communicate, and collaborate with other learners.





E-Learning 1.0	E-Learning 2.0
Top down and one way Reception	Bottom up, learner driven, peer learning Participation
Components – LMS, courseware, authoring tool	Blogs, podcast, wikis, social bookmarking, mash-ups, social networking tools
Learning platform	Personal learning environment (PLE)
Instructional content, Receiver	User-created content, Developer
Multimedia	Social networks and community of practice

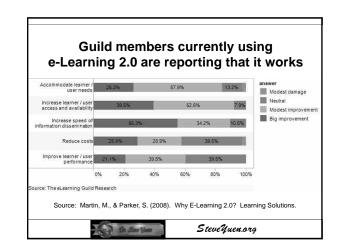
E-Learning 2.0
Create and share information and knowledge with other learners
Create content and collaborate with peers, interact and share their thoughts and comments
Quality is accessed by instructor, learners & peers
Reflection Tests, portfolios, learning products, & social interactions



Learning Tools for E-Learning 2.0 · Mostly free · Content authoring Wikis Social bookmarking Blogs Social learning networks · Learning Activity Management System · Personal learning spaces · Virtual classrooms · Virtual social worlds **Podcasts** · Open learning content RSS Mashups Steve Yuen.org

E-Learning 2.0 in Training • A study by Guild Research (2008) - 40% of respondents indicate they are making some use of e-learning 2.0 approaches - 70% of respondents plan to apply more e-learning 2.0 approaches over the next 12 months - younger workers demand e-learning 2.0 approaches to performance support

E-Learning 2.0 in Training • A Study by Martin and Parker (2008) - those organizations using e-learning 2.0 are reporting positive results - 57% of Guild members believe that e-learning 2.0 has helped them accommodate learner needs - 65% report increased learner access and availability; and almost 66% have increased the speed of information dissemination - 95% of those organizations making significant use of e-learning 2.0 strategies report that their efforts have been worthwhile

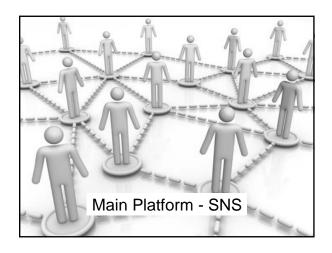


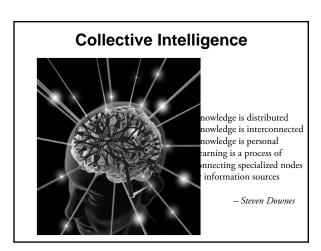
My E-Learning 2.0 Study

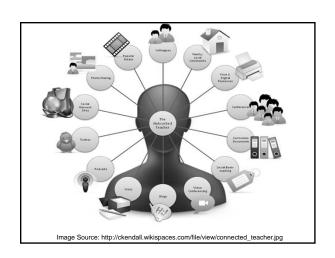
- Involved the design, development, and implemented of two online courses based on e-learning 2.0 concepts
- Investigated the students' opinions, experiences, and interactions in online courses based on an e-learning 2.0 instructional approach
- Examined students' preferred Web 2.0 tools in online courses



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E-Learning 2.0 Course Design

- Private social networking site
- Class blog
- Students' blogfolios
- Online forums and presentations
- Podcast channel
- Social bookmarking
- Wiki
- YouTube videos
- Mashup
- Tweets

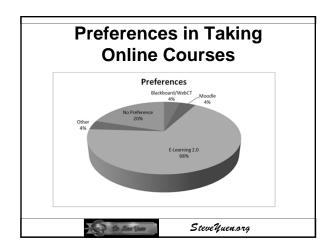


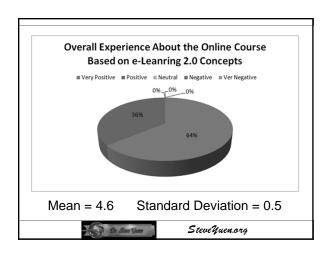
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Students Opinions on E-Learning 2.0 Courses E-learning 2.0 instructional approach a learners to express individuality and creativity. E-learning 2.0 instructional approach encourages learner-centered activities E-learning 2.0 instructional approach provides collaborative learning opportunities. 0.9 4 24 4.5 0.9 E-learning 2.0 instructional approach promotes knowledge sharing. 0 0 28 4.6 0.9 E-learning 2.0 instructional approach promotes class communications. 0 28 0.9 E-learning 2.0 instructional approach facilitates group learning. 0.8 48 4.3 40 SteveYuen.org

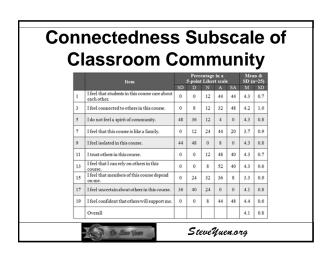
_	-Learning 2	.U	.0 Course			Mean & SD		
	Item	5-point Likert scale				(n=25)		
ħ	E-learning 2.0 instructional approach allows learners to create content and to collaborate with peers to form a learning network.	SD 0	4	0	36	60	M 4.5	0.7
8	E-learning 2.0 instructional approach capitalizes on many sources of content aggregated together into learning experiences.	0	4	4	36	56	4.4	0.8
9	E-learning 2.0 instructional approach allows learners the opportunity to configure their personal learning environments.	4	0	8	32	56	4.4	0.9
10	E-learning 2.0 instructional approach provides social learning environments.	4	0	0	40	56	4.4	0.9
11	E-learning 2.0 instructional approach provides learners with opportunities to interact with the content and share their thoughts and comments with the instructor and other learners.	4	0	4	44	48	4.3	0.9
12	E-learning 2.0 instructional approach is effective in online/hybrid learning environments.	4	0	0	32	64	4.5	0.9

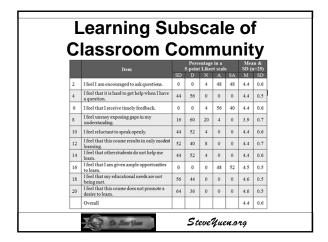
	Web 2.0 Tool		Percentage in a 5-point Likert scale					Mean & SD (n=25)		
		NS	NU	SU	U	VU	M	SI		
1	Blogfolio	0	4	16	36	44	4.2	0.9		
2	Chat	0	8	52	32	8	3.4	0.		
3	Class Blog	4	12	28	24	32	3.7	1.3		
4	Class Social Network	0	0	4	16	80	4.8	0.:		
5	Forums	0	0	28	36	36	4.1	0.3		
6	Groups	8	20	40	32	0	3.0	0.9		
7	Podcasts	12	4	8	36	40	3.9	1.3		
8	Photos	12	4	8	36	40	3.6	1.		
9	RSS	12	8	28	32	20	3.4	1.3		
10	Social Bookmarking	0	0	32	32	36	4.0	0.3		
11	Twitter	0	32	20	24	24	3.4	1.3		
12	Videos	4	0	8	44	44	4.2	0.9		
13	Wiki	8	0	24	40	28	3.8	1.		

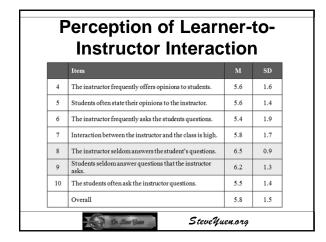


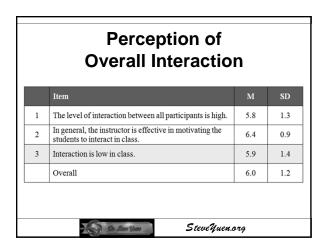


	Very Poor	Poor	Average	Good	Excellen
User-interface	0	0	4	% 36	60
Design and layout	0	0	0	40	60
Content	0	0	0	16	84
Reliability	0	0	0	36	64
Support	0	0	0	48	52









Conclusion

- Students' online course experience based on e-learning 2.0 concepts were very positive and encouraging
- Students preferred e-learning 2.0 environment because they could easily access course content, interact content with others, construct new knowledge, and collaborate with others to form a learning network
- Students could communicate with others and access knowledge in ways that encouraged creative and reflective practices that extended beyond traditional online learning
- Students had very positive and favorable feelings toward overall interaction, learner-to-instructor interaction, and learner-to-learner interaction

Dr. Store Yuan

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Final Thoughts

- Is not about further development nor about a new technology. Is a new model of learning or a new, separate, innovative variety of e-learning
- Describe a number of developments, trends and points of view, which require change from teaching to learning
- Learning = generating content + communicating with people (Learner driven, focused on group learning)
- Build on the metaphor of "participation" learning is perceived as an interlinked, social process in which Web 2.0 tools are used to develop learning results through collaboration and communication



Final Thoughts • Focus on constructive activities Allow learners to interact with content, to share their thoughts and comments with instructors and other learners, to gain from their learning experiences, and construct their own knowledge. • Create personal learning environments Enable the participation and collaboration of learners in content creation, sharing, and interaction. • The future of LMS

