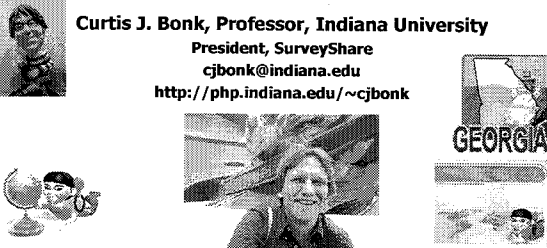



Wandering Through the Wonders of the Web 2.0: Emerging Technologies and Innovative Activities of for the 21st Century


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Schools, Teachers, and Students of the 1880s



I'm a librarian



Technology of the 1980s



Radio Shack TRS-80 Model III	
Introduced:	July 1980
Price:	US \$699 base model US \$2495 w/ 32K, dual drives.
CPU:	Zilog Z-80, 2.03 MHz
RAM:	4K, 48K max.
Ports:	Cassette tape, expansion, serial
Display:	12-inch BW monitor: 84 X 16 text
Storage:	0, 1, or 2 internal 170K floppy drives External cassette @ 500 / 1500 baud
OS:	BASIC in ROM, TRS-DOS on disk

Technologies of the 2000's



**Monday April 30, 2007, USA Today
Top 25 Things that Shaped the Internet**

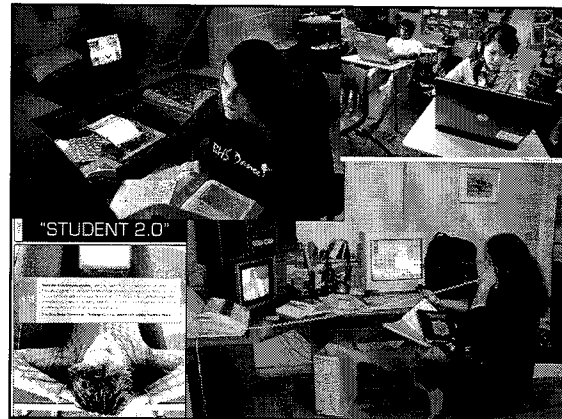
- 747 Million adults logged on in Jan, 2007
- 97 billion e-mails are sent each day
- Google had 500 million visitors in Dec, 2006
- USA: 1% broadband in 1998; 78% in 2007
- YouTube bought by Google for \$1.7 billion
- Adobe's Flash player on 98% of machines
- There are 75 million blogs!!!
- 19 million people play MMOG!
- 173 million personalized pages in MySpace

**Poll #1:
Raise your hands if you are a digital native
(grew up with a computer at home).**



Next Generation of Students

Tech Creates Bubble for Kids
Alejandro Gonzalez, USA TODAY, Updated 6/20/2006 10:34 AM ET

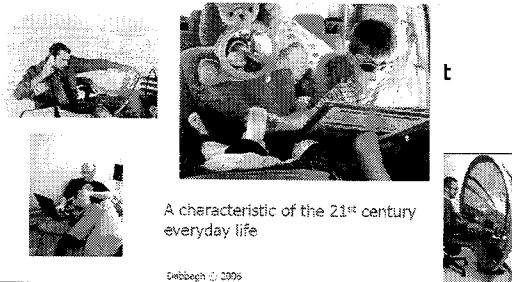


Neomillennial Learning Styles
Planning for Neomillennial Learning Styles: Implications for
Investments in Technology and Faculty
Chris Dede, Harvard University, Educause, 2005

- Fluency in multiple media--value all types of communication, activities, experiences, not a single best medium
- Actively seek, collect, and synthesize experiences, rather than absorb a single best source
- Active learning and collective reflection
- Non-linear and associated webs of learning
- Co-design of learning experiences for individual needs and preferences not pre-customized

Simulation: Xer

Multitasking





Bonk's Addiction Q'er

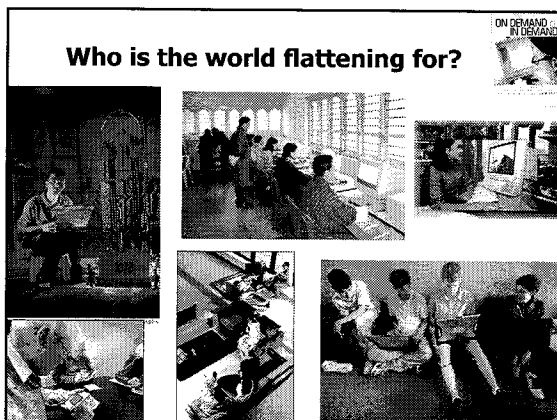
1. Who has 2 or more cell phones with Internet access?
2. Who has 2 or more laptop computers with wireless connections?
3. Who is on email in the morning? At noon? Who does it at night?
4. Who suffers from nervous tension when you cannot get on email?
5. Who is on the Web right now?



■ Thomas Friedman, author of "The World is Flat":
 ■ Tools for collaboration are changing the world
 ■ <http://mitworld.mit.edu/video/266/>

The Ten Forces that Flattened the World

1. 11/9/89: Berlin Wall came down
2. 8/9/95: Netscape went public
3. Work Flow Software (e.g., PayPal and eBay)
4. Open-Sourcing (Self organizing collaborative communities; Mosaic, Apache, Wikipedia, Linux, Mozilla/Firefox,)
5. Outsourcing (Y2K)
6. Offshoring (e.g., China, Mexico, Thailand)
7. Supply-Chaining (e.g., Walmart)
8. Insourcing (UPS fixing Toshiba laptops)
9. In-forming (e.g., Google, Yahoo!, MSN Web Search)
10. The Steroids: Digital, Mobile, Personal, and Virtual (e.g., wireless, file sharing, VoIP, video camera in phone)



3

Telegraph: Flattening the world in 1860

Blogging now begins young

Eighth-grade students Tayler Bernholtz, left, Amy Lostroh and Kelsey Cardiff check out a weblog discussion related to the Civil War historical-fiction book 'Guerrilla Season' At South Valley Junior High School in Liberty, Mo. (Blogging now begins young USA Today, By Ashley Bleimes, USA TODAY, November 15, 2006, 12D). http://www.usatoday.com/life/2006-11-14-blogs-education_x.htm

WE-ALL-LEARN:

Ten Forces that Opened the Learning World

- Web Searching in the World of e-Books (i.e., Darwin)
- Enormous E-Learning and Blended Learning
- Availability of Open Source and Free Software (e.g., Moodle)
- Leveraged Resources and OpenCourseWare (e.g., MIT)
- Learning Object Repositories and Portals (i.e., shared content)
- Learner Participation in Open Info Communities (YouTube)
- Electronic Collaboration and Interaction (sync and async)
- Alternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)
- Real-Time Mobility and Portability (e.g., iPhone)
- Networks of Personalized Learning (Blogs, RSS)

The Learning World is Flat
Thomas L. Friedman

Three Larger Trends of WE-ALL-LEARN

- The availability of tools and infrastructure for learning.
- The availability of free educational content and resources (OER—Open Educational Resources).
- A move towards a culture of open access to information, international collaboration, and global sharing.

The Learning World is Flat

The Ten Forces that Flattened the World

1. Web Searching (e.g., Google, MSN, Yahoo!) in the World of e-Books (i.e., Darwin, Shakespeare, etc.)

The Learning World is Flat

The Search is on!

The Learning World is Flat

New programs teach undergraduates how to use the Internet and the online card catalog in search of the best sources
 Chronicle of Higher Education, Andrea Foster, March 9, 2007
<http://chronicle.com/free/v53/i27/27a03801.htm>

- The explosion of electronic information is fueling students' confusion, librarians say. In 1996 there were 10,000 scholarly databases online; now they exceed 18,000. The Web is teeming with more than 100 million sites, up from 18,000 in 1995. Google and Microsoft recently began archiving books and scholarly journals and making them available via their search engines. And two online, academic-oriented encyclopedias, Citizendium and Scholarpedia, are starting up...

Google and Other Search Engines (Sergey Brin, Co-Founder) Google to Impact Chip in Brain!



The screenshot shows a Google search interface with a map of a city area. A news article snippet is visible on the right side of the page, titled "Google founder dreams of Google implant in your brain".

Google Working on Timeline and Map Views

The screenshot displays a Google search page with a map view on the right and a timeline view on the left, showing a sequence of events or data points over time.

The screenshot shows a webpage titled "UPEN Content Alliance". It contains text about digital content and a grid of small images or thumbnails.

Read, Listen, etc. to "An International Episode" by William James

The screenshot shows a digital library interface for the book "An International Episode" by William James. It offers options to read, listen, or watch the content.

All of Darwin's and Shakespeare's Works are Online

The screenshot is a news article from the Chicago Tribune titled "Google expands book project". It discusses Google's efforts to digitize books, including works by Darwin and Shakespeare.

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