Podcasts and Wikis and Blogs, Oh My!: Online Learning is Not in Kansas Anymore
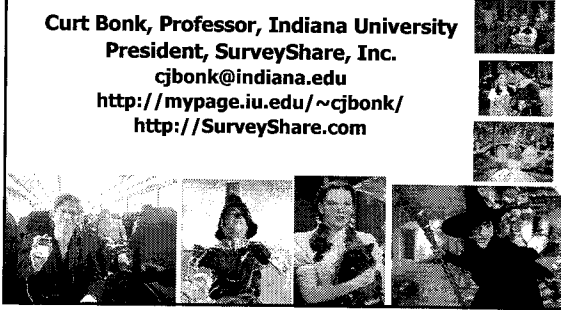
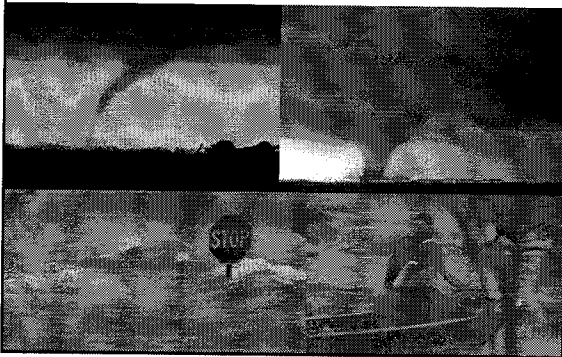Curt Bonk, Professor, Indiana University
President, SurveyShare, Inc.
cjbonk@indiana.edu
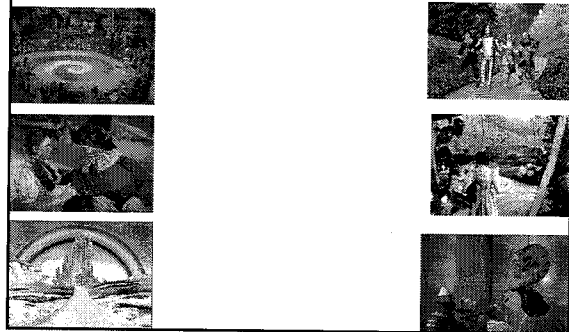http://mypage.iu.edu/~cjbonk/
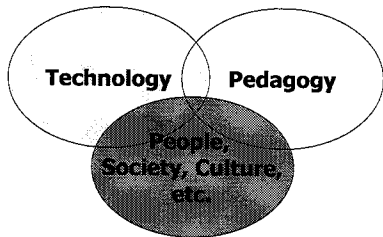http://SurveyShare.com

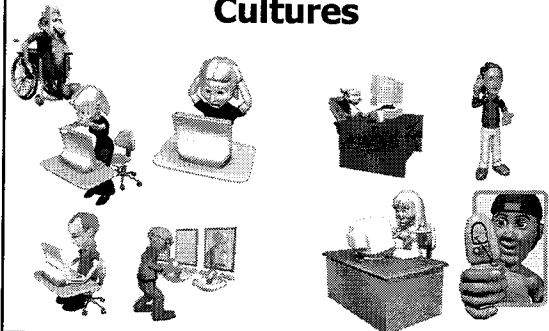## Podcasts and Wikis and Blogs! Oh My!

E-Learning Not in Kansas?

If it is not in Kansas, can we find e-learning in the UK?

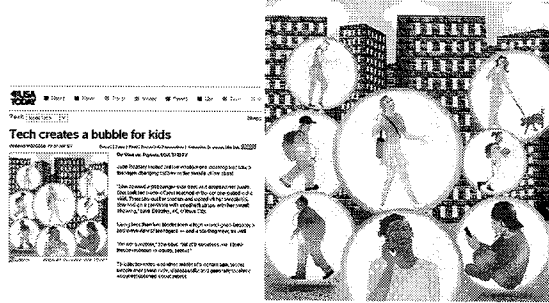## Nature and Nurture: An Interactional Model

Technology   Pedagogy

People, Society, Culture, etc.

Part I. People, Society, and Cultures

Next Generation of Students

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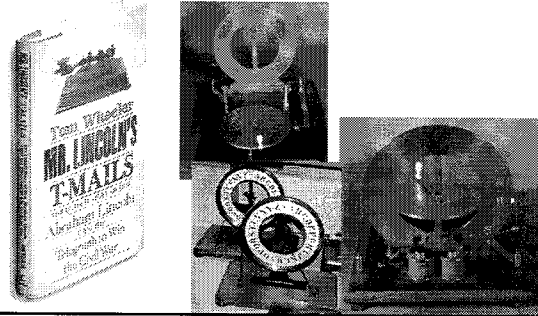
Tech Creates Bubble for Kids
Alejandro Gonzalez, USA TODAY, Updated 6/20/2006 10:34 AM ET

Telegraph:
Flattening the world in 1860

How Lincoln won the Civil War
Mr. Lincoln's T-Mails: The Untold Story of How Abraham Lincoln Used the Telegraph to Win the Civil War
by Tom Wheeler; Collins, 227 pages, $24.95.
By Russ Juskalian, Special for USA TODAY
Updated 11/26/2006 5:29 PM ET
http://www.usatoday.com/money/books/reviews/2006-11-26-lincoln-book_x.htm

* Wheeler argues that the use of the telegraph by Lincoln and his Union generals may have provided the advantage necessary to win the war.
* The telegraph was a killer app for its use along rail lines, enabling more efficient scheduling of trains—which, in turn, increased traffic, and profits.
* With this breakthrough, telegraph lines exploded across the Northern parts of the USA. The Southern states, afraid that industrialization would change their way of life dramatically, moved far more slowly in establishing both railroads and telegraph lines.

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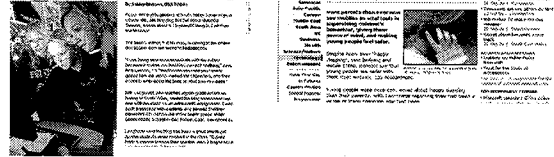
Eighth-grade students Tayler Bernholtz, left, Amy Lostroh and Kelsey Cardiff check out a weblog discussion related to the Civil War historical-fiction book 'Guerrilla Season' At South Valley Junior High School in Liberty, Mo. (Blogging now begins young USA Today, By Ashley Bleimes, USA TODAY, November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

Schools of the 1880s

EXCITEMENT IN LEARNING
NEW...LOW COST Audio Visual Method WITH DISCUSSIONAL CONTROL
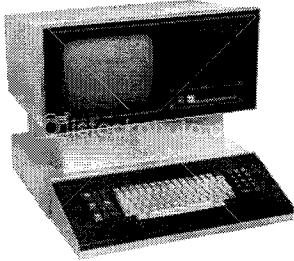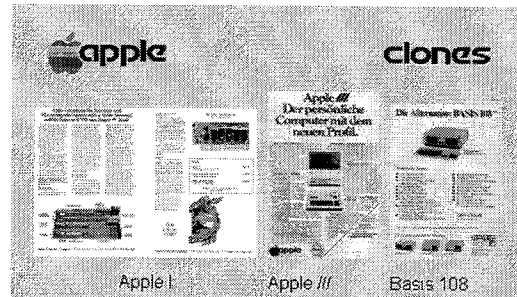
Dramatic NEW Teaching Aid...

DUKANE CORPORA

AMERICAN OPTICAL OPAQUE PROJECTOR

Technology of the 1980s

Technology of the 1980s

Technology of the late 1990s: Course Management Systems
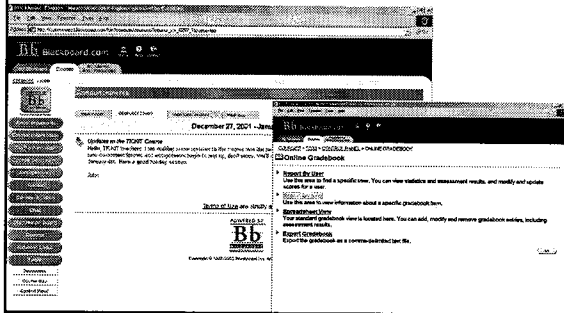
Entice Students with Technology Giveaways

Effects of interactive multimedia in distance learning

Giti Javidi and Ehsan Sheybani, 2004, In Proceedings of the IASTED International Conference WEB-BASED EDUCATION

"The advancement in technology is shaping every aspect of our life, including education. One decade ago, the Internet was not critical to education. However, now, it has become an integral part of learning process. Internet technology is having a dramatic effect on colleges and universities, producing what may be the most challenging period in the history of higher education."

Increased Broadband Access

Total broadband subscriptions, percentage of OECD, top 5 countries, June 2005

Source : OECD

3
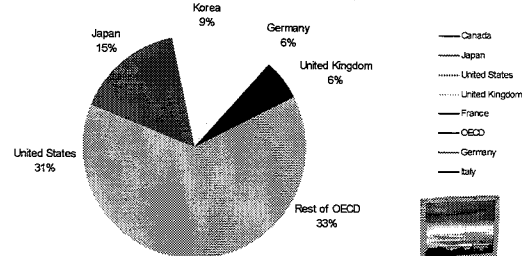
Singapore and Taipei
(Intel Press Release, 2006)

- Singapore, the island city-state in Southeast Asia, is about to complete a major new public/private project that will see large chunks of the 270 square mile city provided with Wi-Fi access by the end of 2008. The entire city, indoors and out, is due to be covered by 2015.
- In the coldest capital in Canada, the city residents of Iqaluit (pop. 6,000) enjoy free wireless from one free hotspot (with two more due soon to cover the suburbs), **while Taipei, Taiwan (pop. 2.6 million) has a few more—over 4,000 hotspots that provide coverage for 90 percent of the city.**

The Learning World has become Flat!

The Learning World is Flat

You.

A Different Generation??? Multitasking...
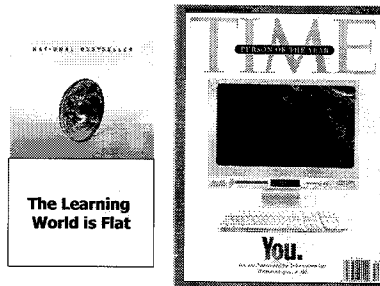### "YOUNG AND WIRED," Katherine Seligman, San Fran Chronicle, Sunday, May 14, 2006

Gloria Kwan listens to her iPod while text messaging a friend who's in class.
Chronicle photo by Mike Kepka

INFORMATION TECHNOLOGY

"YOUNG AND WIRED, Computers, cell phones, video games, blogs, text messages -- how will the sheer amount of time spent plugged in affect our kids?"
Katherine Seligman, San Fran Chronicle, Sunday, May 14, 2006

Harker student Stephanie Lil (wearing a false nametag), during language class, recording her voice in Spanish for the teacher to evaluate later. Chronicle photo by Mike Kepka

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USA Today, October 3, 3006

Totally wireless on campus
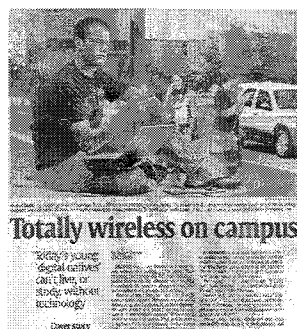
Top 5 "In" Things on Campus
June 7, 2006, USA Today

iPods knock over beer mugs

Learning in Cafes, Libraries, and Pubs
USA Today, October 5, 2006

ON DEMAND
IN DEMAND

Computers, quiche and quiet

Yahoo News
Love me, love my blog," as Netorati couple-surf
BY SARA LEDWITH Thu Aug 3, 8:30 AM ET

- Nick Currie and his girlfriend Shizu Yuasa (R) surf the internet over breakfast in Tokyo in this handout photo. As the Internet evolves -- with its webcams, iPods, Instant Messaging, broadband, wi-fi and weblogs -- its image as a relationship-wrecker is changing. Now a sociable habit is emerging among the Netorati: couple-surfing. (Nick Currie/Handout/Reuters)

- "For my birthday, he upgraded my RAM and I thought it was incredibly romantic," writes Jess.

All learning in one's own hands?

THE KOREA TIMES

3. You might see photos or other images on the PDA

Mobile
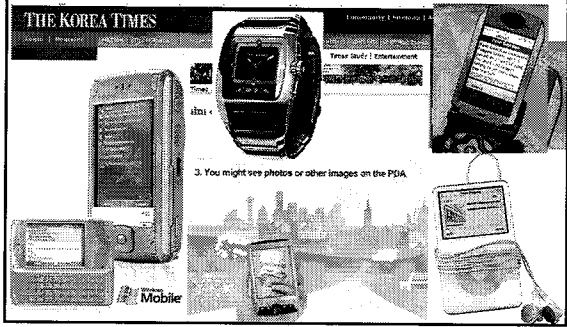
EDUCATION with Student News

DELL

Students prefer online courses   of age

Classes popular with on-campus students

Friday, January 13, 2006; Posted: 3:18 p.m. EST (20:18 GMT)

(AP) -- Andy Steele lives just a few blocks from the campus of Black Hills State University in Spearfish, South Dakota, so commuting to class isn't the problem. But he doesn't like lectures much, isn't a morning person, and wants time during the day to restore motorcycles.

So Steele, a full-time senior business major, has been taking as many classes as he can from the South Dakota state system's online offerings. He gets better grades and learns more, he says, and

Andy Steele takes an online course the library of Black Hills State University

start it

Behaviorist Interactivity
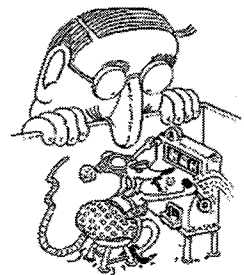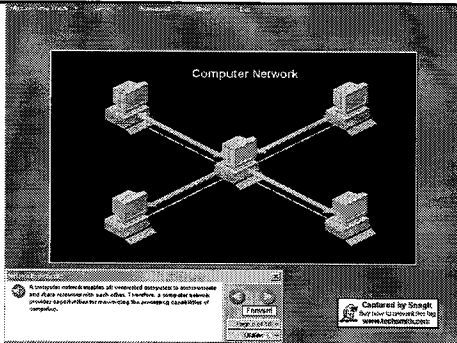
Online PowerPoint?

Simulation: Xer

- Genxers have a rapid-fire information consumption capability. Rushkoff argues that many of the things for which this generation is maligned, such as short attention spans and lack of ability to concentrate on a single task at once are not problems but actually brilliant coping mechanisms for a world overloaded with information.

Simulation: Xer

- "The skill to be valued in the twenty-first century is not the length of attention span, but the ability to multitask - to do many things well at once.... [and] the ability to process visual information very rapidly." (Rushkoff, 1996:50)

Learner Control: Xer

- Xers expect a range of options, in terms of what they learn and how they learn it. They require autonomy and flexibility for their own learning. They demand a variety of instructional methods from which they can choose to learn, e.g., videotapes, self-paced modules, interactive CDs.
  - "Online gives me something to do when I'm bored with the professor."
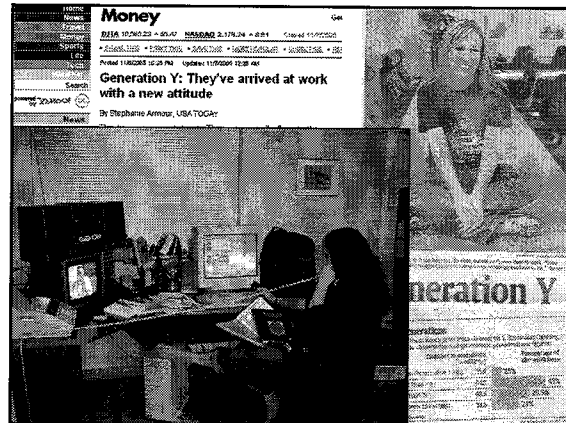 - "I respect myself more as a self-teacher."
    - Dziuban, Moskal, & Hartman (2005)

Neomillenial 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

6

CAMPUSMOVIEFEST.COM showcases the collab work of tens of thousands of student filmmakers from around the world

Dual Coding Theory

Figure 6. A Model of Animations, Dual-Coding and Information Processing.

Revised from "The Basic Model of Learning and Memory Underlying Modern Information
Processing Theories," by R. M. Gagné and M. P. Driscoll, 1988, *Essentials of Learning for
Instruction*, p. 13.

The promise of multimedia learning: Using the same instructional design methods across different media
Richard E. Mayer, Learning and Instruction, 13 (2003) 125-139.

Fig. 1. A cognitive theory of multimedia learning.

The promise of multimedia learning: Using the same instructional design methods across different media
Richard E. Mayer, Learning and Instruction, 13 (2003) 125-139.

A review of research on the design of multimedia explanations:

(a) a multimedia effect: in which students learn more deeply from words and pictures than from words alone—in both book-based and computer-based environments,

(b) a coherence effect: in which students learn more deeply when extraneous material is excluded rather than included—in both book-based and computer-based environments,

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The promise of multimedia learning: using the same instructional design methods across different media
Richard E. Mayer, Learning and Instruction, 13 (2003) 125-139.

(c) a spatial contiguity effect: in which students learn more deeply when printed words are placed near rather than far from corresponding pictures—in both book-based and computer-based environments, and

(d) a personalization effect: in which students learn more deeply when words are presented in conversational rather than formal style—both in computer-based environments containing spoken words and those using printed words.

Part II. Technology Trends: Podcasts and Wikis and Blogs, Oh My!!!!

(1) Blogs, (2) Wikis, and (3) Podcasts

- **Definitions**
- **Leading Figures**
- **Instructional Ideas**
- **Research, Data, and Other Examples**

Trend #1: Blogging (75,000 new blogs each day, USA Today, March 27, 2006)

Quarter	Blog Population
Q1 2000	29,500
Q2 2000	66,400
Q3 2000	115,000
Q4 2000	197,000
Q1 2001	352,000
Q2 2001	628,000
Q3 2001	951,000
Q4 2001	1,200,000
Q1 2002	1,570,000
Q2 2002	2,140,000
Q3 2002	2,570,000
Q4 2002	3,070,000
Q1 2003	3,730,000
Q2 2003	4,580,000
Q3 2003	5,780,000
Q4 2003	7,300,000
Q1 2004	9,620,000
Q2 2004	12,600,000
Q3 2004	16,200,000
Q4 2004	21,000,000
Q1 2005	31,600,000
Q2 2005	37,800,000
Q3 2005	45,200,000
Q4 2005	53,400,000

Hosted Blog Growth

Growth Rate	
-
606%
126%
131%
105%

Scholars who Blog, Chronicle of Higher Ed, (Glenn Reynolds, instapundit.com; Stephen's Web, www.downes.ca)

According to Linda Evarts (2003)

"Web logs — blogs for short — are the surprise wedding of the informational capacity of journalism and the speed of instant messaging....Composed of short and frequently updated postings arranged in chronological order, blogs are Web sites similar to online journals, offering information on topics ranging from foreign policy to poetry."

Blogging growing around the globe!

canada.com
WHERE PERSPECTIVES CONNECT

Tuesday » October 10 » 2006

China says number of blogs tops 34 million with 55 million regular readers

Canadian Press

Tuesday, September 26, 2006

BEIJING (AP) - The number of blogs in China has topped 34 million, more than 30 times as many as the country had four years ago, news reports said Tuesday.

Some 17.5 million people in China consider themselves Web log writers, while 55 million regularly read them, newspapers and the Xinhua News Agency said, citing a report by the government's China Internet Network Information Centre.

Web logs are hugely popular in China, where the government controls all media and the Internet offers most people the only public forum for expressing opinions. Most blogs deal with pop culture, travel, family matters and other nonpolitical subjects.

Educational use of Blogs

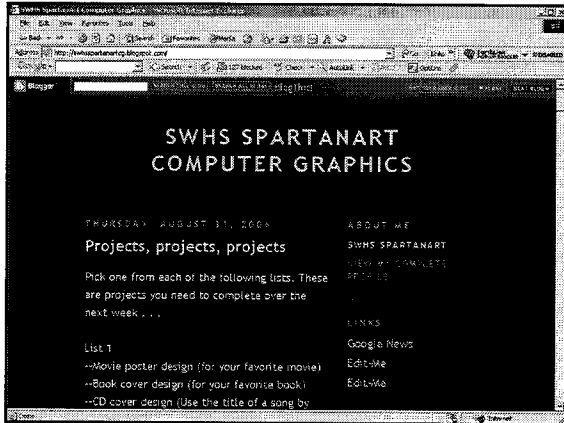| For instructors	For students
▪ **Professional practice**	▪ **Reflections or journals**
▪ **Networking and knowledge sharing**	▪ **Dialogue with peers**
▪ **Course management tool**	▪ **Group work**
	▪ **Communicate with instructor**
▪	▪ ... ...

Blogging Questions

1. Who has a blog? Any for a specific class?
2. Who regularly reads other people's blogs?
3. Who assigns blogging tasks?
4. Who has created a video blog?
5. Who thinks it is an utter waste of time to blog?

Use of Weblogs
(especially English writing class)

1. Instructor or Tutor blog: resources, information, space to chat
2. Learner blog: reflections, sharing links and pics, fosters ownership of learning
3. Partner blog: work on team projects or activities
4. Class blog: international exchanges, projects, PBL
5. Revision: review and explode sentences from previous posts, add details
6. Nutshell: summarize themes or comments across blogs
7. Blog on blog: reflections on feelings, confusions, and experiences with blogs

Blogger Software:
You have many choices!

1. Blogger: http://www.blogger.com/
2. Diaryland: http://www.diaryland.com/
3. Live Journal: http://www.sixapart.com/livejournal/
4. Movable Type: http://www.sixapart.com/movabletype/
5. Pitas: http://www.pitas.com/
6. TypePad: http://www.sixapart.com/typepad/pricing
7. Xanga: http://www.xanga.com/

New Pew Survey Defines Today's Bloggers
Jimmy Moore, July 22, 2006

- Among the different kinds of blogs out there, here is the breakdown:
- Personal life - 37 percent (can you say MySpace.com?)
- Political - 11 percent
- Entertainment - 7 percent
- Sports - 6 percent
- News/Current Events - 5 percent
- Business - 5 percent
- Technology - 4 percent
- Religion/Faith - 2 percent
- Health - 1 percent

Pew Research Group
New Pew Survey Defines Today's Bloggers
Jimmy Moore, July 22, 2006

- Most bloggers are young, 18-30 year olds
- Most bloggers spend hours on Internet per day
- Most bloggers share their personal experiences
- Most bloggers write daily or almost daily
- Most bloggers LOVE to write and are good at it
- Most bloggers never published their writings b4
- Most bloggers have a full-time job (and it's not blogging!)

Vlogging (Video Blogging)
e.g., Andy Calvin's Waste of Bandwidth

Adventure Blogging
(Ben Saunders, Mark Fennell)

Business Blogs

Blogs put businesses on Web search map

Trend #2. Wikis

Debates about Wiki Quality

Brandon Hall, Chief Learning Officer Magazine, July 2006

"A wiki is a collection of Web pages that can be easily viewed and modified by anyone, providing a means for sharing learning and collaboration."

For Teachers New to Wikis

- Wikis are free, online writing spaces.
- Wikis use simple formatting rules, so no HTML understanding required.
- Highly collaborative composing and creativity
- Authors do not claim ownership
- Published online
- Wikis provide a history and anyone can revisit prior versions of text

How use in teaching

1. Provide space for free writing
2. Debate course topics and readings
3. Share resources (websites, conferences, writing, etc.)
4. Maintain group progress journal
5. Require group or class essay
6. Have student revise Wikipedia pages
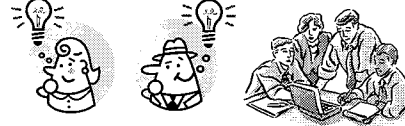7. Write a wikibook

Wiki Resources/Options

- Wikipedia
- Wikibooks
- Wiktionary
- Wikiversity
- Wikispecies
- Wikiquote
- Wikinews

What is a wiki?

- What I Know Is

- collaborative web-writing
- cross class/ interdisciplinary projects
- project spaces

What is a wiki?

- Ward Cunningham, in 1995

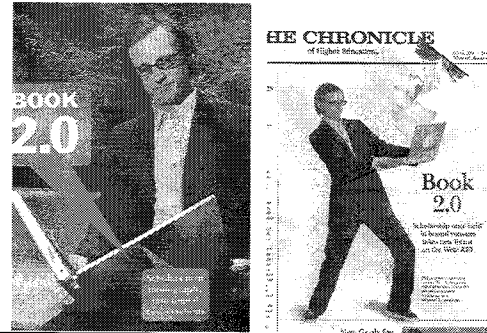- The name, wiki, is based on the Hawaiian term *wikiwiki,* meaning "quick"

Wiki Questions

1. Who regularly reads Wikipedia articles just for fun?
2. Who regularly reads Wikibooks?
3. Who seeks Wikipedia for content?
4. Who has edited or written new articles on Wikipedia or Wikibooks?
5. Who thinks it is ok for college students to cite from Wikipedia?

Wiki Software

- **Wiki software is a type of collaborative software that runs a Wiki system.**
  - Java based:
    http://sourceforge.net/projects/friki
  - Perl based (Twiki)
    http://twiki.org/
  - PHP based
    http://www.qwikiwiki.com/
  - PHP & MySQL
    http://www.mediawiki.org/

Wikibook Creation and Collaboration

Stanford Debuts Wiki of All Things Stanford
October 10, 2006
Campus Technology

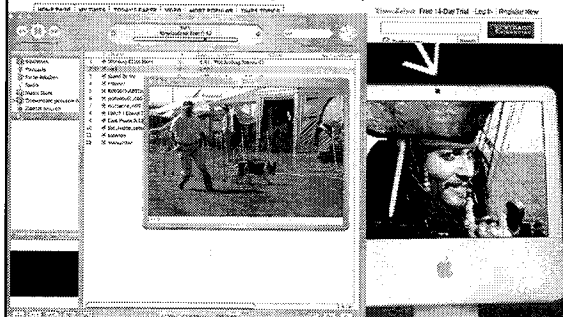## 3. Podcasting, Webcasting, and Coursecasting
(Adam Curry; www.dailysourcecode.com)

Apple Plans to Inhabit Living Room
The New York Times
By JOHN MARKOFF and LAURA M. HOLSON
Published: September 13, 2006

Podcast Questions

1. Who has listened to a podcast?
2. Who listens to a certain podcast on a regular basis?
3. Who has created a podcast?
4. Who has created a vodcast?
5. Who thinks podcasting is simply more talking heads?

Webcasts: WorldBridges Goals

What is Worldbridges?
- **Worldbridges is a network of individuals and organizations that use live, interactive webcasting and other new media technologies to help people connect, learn, & collaborate.**
(Webheads, Koreabridge, Worldbridges Tibet, EdTechTalk, etc.)

Goals & Values
- **Our primary goal is to foster understanding and cooperation amongst the citizens of the world. We value civility and respect, open source collaboration, fair distribution of income, and a sense of world identity.**

Coursecasting: Purdue and IU

Podcasting and Coursecasting
(in schools—kids have power!)

"Just the word 'podcast' scares a lot of teachers away," Ms. Schrock said. "There are a lot of misconceptions."
"All you need is a computer, access to the Internet and a microphone that you can buy at Toys 'R' Us," Mr. Warlick said. "I listen to podcasts on my computer." (NY Times, Jan 25, 2006)

Language Learning
(ChinesePod—learn Mandarin)

Jenny Zhu

Listen: iTunes, PodcastAlley

Educational Applications of Podcasting

1. Recordings of lectures (Coursecasting)
2. Supplemental textbook or entire book
3. Student projects
4. Interviews
5. Language lessons
6. Oral reports
7. K-12 classroom interactions
8. Downloadable library of resources
9. Recordings of performances

Podcasts and Wikis and Blogs Oh My!
(Find papers as PublicationShare.com
archived Talks at TrainingShare.com)

James Bonk