E-Learning Trends and Overview for Corporate Training Environments

Curtis J. Bonk, Professor, Indiana University President, SurveyShare cjbonk@indiana.edu http://php.indiana.edu/~cjbonk

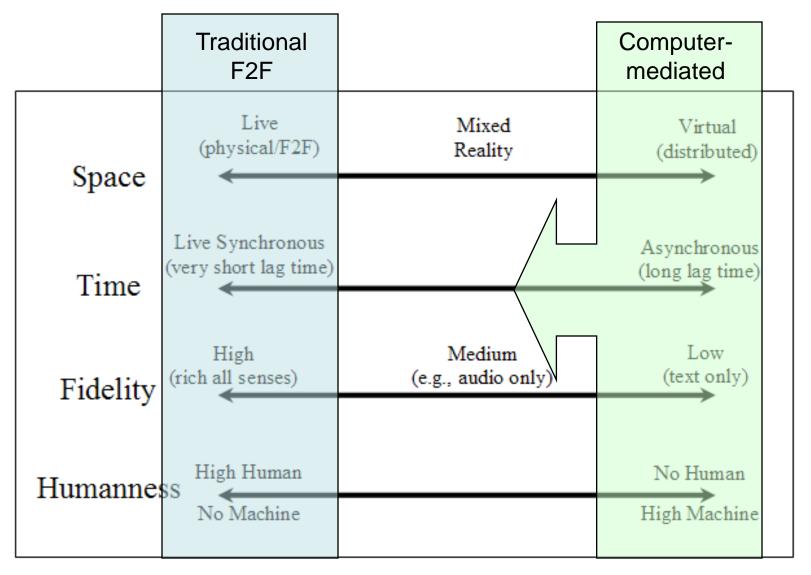






The Ten Forces that Flattened the Learning World

- **1.** Tools for Searching/Finding Media and Information Resources
- 2. Availability of Quality Online and Blended Learning Environments
- 3. Free and Open Source Software for Learning
- 4. Open CourseWare (free content)
- 5. Online Learning Object Repositories and Portals (shared content)
- 6. Virtual Collaboration Software (synchronous and asynchronous)
- 7. Online Massive Gaming, Simulations, and Virtual Worlds (e.g., Second Life)
- 8. Learning Mobility and Portability (low-cost mobile devices+wireless communication, podcasts)
- 9. Personalized Learning Tools (Blogs, MySpace, Flickr, and RSS)
- **10.** Open Information Communities (Wikipedia, Slashdot, Digg)



(Graham, 2006)

Types of Interactions Possible?

(Moore, M. G. (1989). Editorial: Three types of interaction. <u>American Journal of Distance Education, 3</u> (2), 1-7.)

- **1. Learner-Instructor**
- 2. Learner-Learner
- 3. Learner-Content



4a. Learner-Self: highlighted the importance of 'self talking', or internal dialogue when engaging with learning materials (Soo & Bonk, 1998)

4b. Learner-Interface: The learner's ability to use the communication medium facilitating the online course (Hillman, Willis, & Gunawardena, 1994)

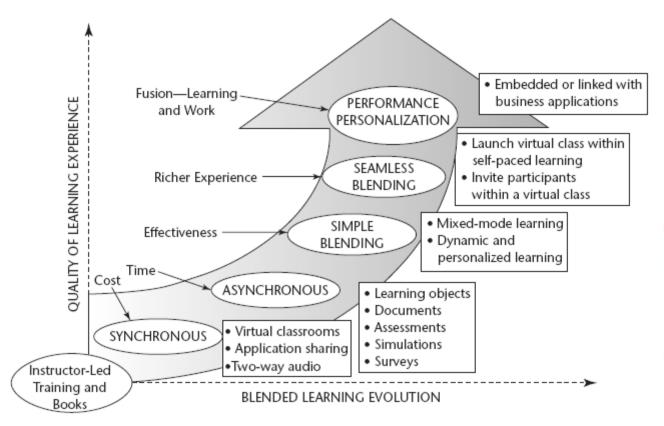
Harvey Singh (2006)

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Blending Learning and Work

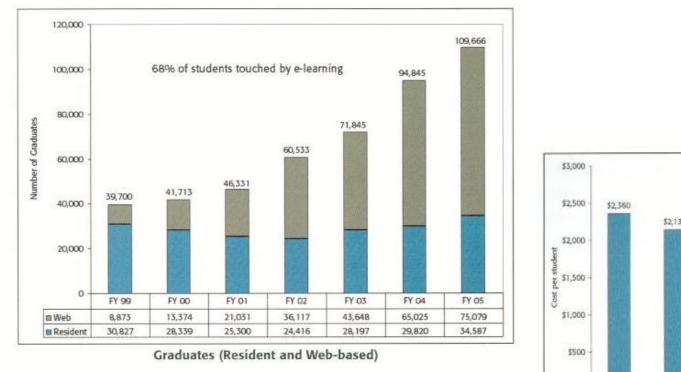
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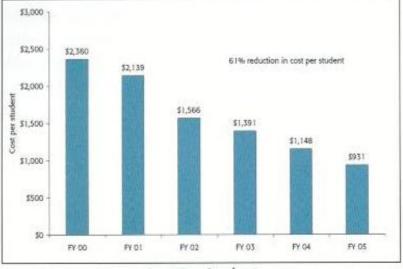
FIGURE 34.1. PAST, PRESENT, AND FUTURE OF BLENDED LEARNING.





Defense Acquisition University Shaping a Culture of Career-Long Learning (lower costs and more learners!)





Cost Per Student

Specific Learning Elements An Learning Ecology from Sun Microsystems (Wenger & Ferguson, 2006)

A Learning Ecology Model for Blended Learning

89

FIGURE 6.6. SPECIFIC KNOWLEDGE SERVICES.

Exploring	Self-Na ^v	vigation	Participating
	 Content repositories Learning content management Performance support Resource centers Learning portals E-books 	 Online communities of practice Discussion forums and chats Talent directories Learning communities Instant messaging 	
Collecting Content	 Continuous learning Skills assessment Pretests Online learning Virtual classrooms Blended learning Online certification Learning management 	 Collaboration E-mentoring or remote coaching Web conferencing Simulations Skills management Interaction with experts Online labs 	_ Connecting People





Informing

Guided Navigation

Guiding

1. Google Print Project





The complete plays of Shakespeare. Now at your fingertips.

In Shakespeare's day, gaining greater access to his plays meant duking it out with the other "groundlings" for the best view of the stage. It took centuries for the modern printing press to bring plays like *Hamlet* to people all around the world – and for the Bard to become one of the most quoted writers in history.

Now Shakespeare's oeuvre is even more accessible. Search within *Hamlet* for "to be or not to be" to read the rest of his famous soliloquy. Find out who called the world his "oyster" and why. Browse through a familiar play – or follow your curiosity to discover a new one. And if you decide you want to buy a copy, "All editions" will show you every version in <u>Google Book Search</u>, many of which are available for purchase.

Comedy <u>Tragedy</u> <u>Romance</u> <u>History</u>

The Comedy of Errors

"Time is a very bankrupt, and owes more than he's worth, to season. Nay, he's a thief too: have you not heard men say

That Time comes stealing on by night and day?" <u>All editions</u>

Love's Labor's Lost

"O, they have lived long on the alms-basket of words. I marvel thy master hath not eaten thee for a word; for thou art not so long by the head as honorificabilitudinitatibus: thou art easier swallowed than a flap-dragon." All editions

Much Ado about Nothing

"That a woman conceived me, I thank her; that she Brought me up, I likewise give her most humble thanks: But that I will have a recheat winded in my forehead, or hang my bugle

In an invisible baldrick, all women shall pardon me." <u>All editions</u>

The Merry Wives of Windsor

"Why then, the world's mine oyster, Which I with sword will open. I will retort the sum in equipage." <u>All editions</u>

<u>As You Like It</u>

Shakespeare in the Park



Google Book Search is a proud sponsor of <u>Shakespeare in the Park</u>.

Learn more about this summer's free performance of *Macbeth* at the Delacorte Theater in New York's Central Park.

Take a Literary Field Trip



Download <u>Google Earth</u> to visit the Globe Theater and other Shakespearean

BBC's download plans get backing, BBC News, January 31, 2007



The BBC's plans will allow viewers to download shows like Doctor Who





1.4m people downloaded Beethoven's symphonies from the

Programmes like Planet Earth could be available for longer



2. Blending Online and F2F Instruction

 Blended learning refers to events that combine aspects of online and face-to-face instruction" (Rooney, 2003, p. 26; Ward & LaBranche, 2003, p. 22)

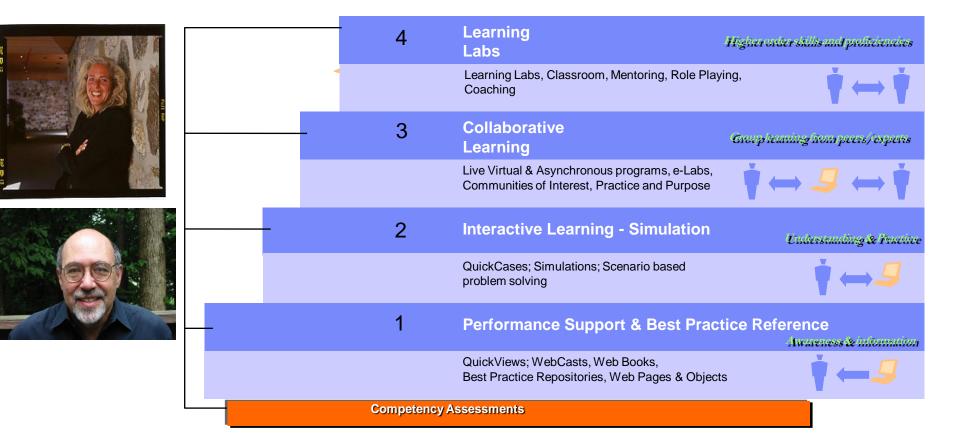


AMA Special Report, Effectively Implementing a Blended Learning Approach (Steven Shaw & Nicholas Igneri, 2006)



Source: American Management Association, AMA at Work

The IBM Four Tier Learning Model (2006) Blending Learning for Business Impact – IBM's case for learning success, 2006 Handbook of Blended Learning, Nancy Lewis, VP, & Peter Orton, IBM



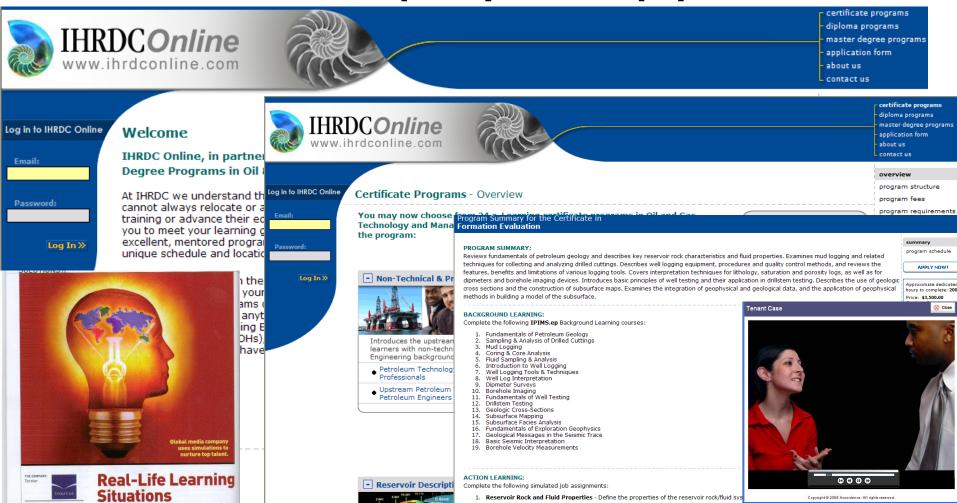
Blended Learning Scenario (copyright Microsoft, Ziob & Mosher, 2006; Handbook of Blended Learning Environments)

					-	
Pre Class	Day 1	Day 2	Day 3	Day 4	Day 5	Post Class
Self-study prep	In classroom	Virtual class	e-Learning	Virtual class	In classroom	Community newsgroups

IHRDC Certificate programs are all Blended Learning, a combination of e-Learning; mentor assisted learning; Practical

Assignments (On the Job)

and Peer Review quality written paper exercise.

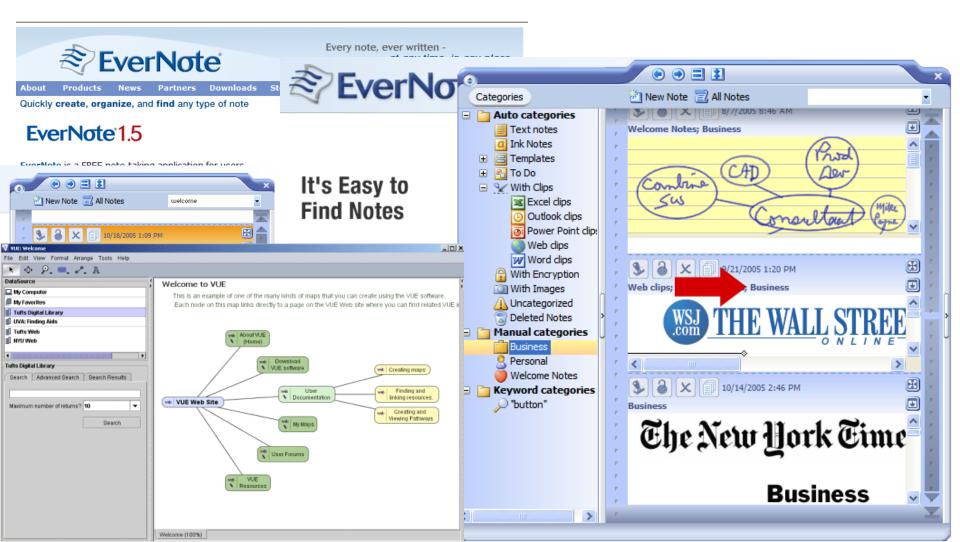


E-Learning Contracts: Meaningfulness Shell Oil: Workflow Learning

• In this context, authentic work-based activities are learning activities that are anchored in workplace practice and that are focused on developing the participants' ability to solve problems in their everyday professional job roles (Merrill, 2002).



3. Open Source Tools



OpenSource Courseware Asynchronous Discussion



Øoncourse.iu.edu	Suggestions Exit	
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Discussion Assignments Tests & Surveys Gradebook Drop Box Week 1 Discussion K-12 Group (2 responses) Curtis Jay Bonk Aug 27, 2005 9:30 pm ()) and () and (Search Moodle - A Free, Open Source Course Management System for Online Learning - Microsoft Internet Explorer Ele Edt Yew Favortes Tools Help Back - O + R C Course Management System for Online Learning - Microsoft Internet Explorer Ele Edt Yew Favortes Tools Help Google - moode.org * Address Tools Help	Links ale
Email Archive IU News Web Content Site Info Help Week 1 Discussion: Intro to Theories of Learning and Instruction>Week 1 Dis Group>Chapter 1 discussion>Obesidog? Sounds like a super hero! From Curtis Jay Bonk (Aug 28, 2005 10:48 pm) Message I love the name obesidog! It sounds like a super hero. Sorry the video of another computer. Remember to scroll to about 28 minutes into the video of	Main menu Site news Community Forums Generation Consumity Forums Model 1.2 Beta Consumity Forums by Martin Dougiamas - Tuesday, 24 February 2004, 06:34 PM Documentation by Martin Dougiamas - Tuesday, 24 February 2004, 06:34 PM After months of work we're proud to announce the Moodle 1.2 beta release! If you are unfamiliar with computer release jargon, the beta means that this is a test release to iron out any last problems before the final release (which we expect in a week or two). Development Development	Legin English (en)
DidTik.	As usual, it's available from the Moodle download page and here are the release notes. As usual, it's available from the Moodle download page and here are the release notes. Moodle Buzz Moodle Sites Course categories Course categories	advantages of Moodle over other systems is a strong grounding in social constructionist pedagogy. Moodle is Open Source software, which means you are free to download it, use it, modify it and even distribute it (under the terms of the GNU General Public

4. Open CourseWare

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OCW Home | Tufts University



forma	tion Administration.)		

Highlights of this Course

The <u>lecture notes</u> page features teaching notes and exercises used in class. Students complete a variety of communication <u>assignments</u>, for which we offer full descriptions.

Course Description

This course builds on managerial communication skills developed in Management Communication for Undergraduates (1,5,272) or Communication for Managers (1,5,280). It introduces interactive coral and interpressonal communication skills important to managers, including: presenting to a hostile audience, running meetings, listening, and contributing to group decision-making. Working in teams, students present a

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 <u>Calendar</u> 	2	Lecture	Fever	[Slides]
	3	Lecture	Vaccines and Passive Immunotherapy	(Slides)
Lectures	4	Lecture	Skin and Soft Tissue Infections	[Full Text] [Slides]
Exams and Quizzes	5	Lecture	Bacteremia and Infective Endocarditis	(Full Text) (Slides)
	6	Lecture	Acute and Chronic Menigitis	[Full Text] [Slides]
Readings	7	Lecture	Bone and Joint	(Full Text) (Slides)
 Cases 	8	Lecture	Urinary Tract	[Full Text] [Slides]
• <u>Cases</u>	9	Lecture	GI (Diarrhea and Others)	(Full Text) (Slides)
	10	Lecture	Pneumonia	[Full Text] [Slides]
	11	Lecture	Tuberculosis	(Full Text) (Slides)
Feedback	12	Lecture	Approach to Opportunistic Infection	[Full Text] [Slides]
	13	Lecture	Hospital Infections	(Full Text) (Slides)
	14	Lecture	Emerging Infectious Diseases	[Full Text] [Slides]
	15	Lecture	Viral Meningitis and Encephalitis	(Full Text) (Slides)
	16	Small Group	AIDS Cases (see Cases link)	

[Slides]

Review

Final Exam

17

18

Lecture

Examination

5. Free Portals on Oil and Gas Industry





Search by category:

Industry: Salactona

how NetApp has helped our customers by reading real-world case

Energy Case Studies

Anadarko Petroleum Chesapeake Energy Chevron Overseas Petroleum, Inc. Conoco EarthData Newfield Exploration Company Ocean Energy OILspace Petrobras

Federal Case Studies

GTSI North Texas Tollway Authority Summit County, Ohio Texas Legislative Council

Financial Services Case Studies

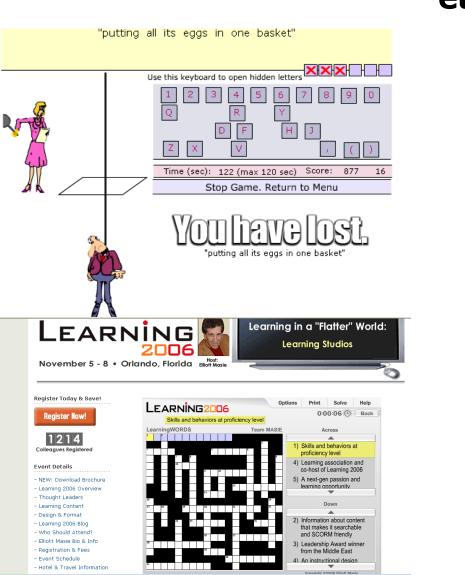
BayView Financial **BOK Financial Corporation** First American Trust HypoVereinsbank AG Maerki Baumann & Co. AG Merrill Lynch Canada Motley Fool SAS SEB







Online Referenceware and Terminology Exercises (puzzles, games, etc.)

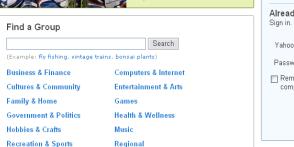


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6. Virtual Collaboration **Online Groups Tools**

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Regional

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Connect with people who share vour interests







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Online Apprenticeship and Mentoring (Simon Fraser University News:

http://www.sfu.ca/mediapr/sfnews/2001/Sept6/hightech.html)

Stage 2: Monitor Stage 3: Close Mentor Match Percentage Students Chat With Italian Civil Engineer Julie Rick Amy Julio 63% 91% 80% 42% 57% Lakeside students had many questions as they talked with an Italian Civil engineer named Paolo Paternostro who was serving an internship in California studying an quality. Using an IRC Chat and E-mail the students enjoyed their conversation as they explored Italy using the National Geographic World Atlas and the **Mentor Selection:** Internet Virtual Tourist II. As the students found item of interest about Italy they would ask questions and receive their-answers first hand. In an E- mail conversation later Mrs. Johnson and Paolo discussed their Chat. The following is an excerpt of the E- Mail. Good morning, Paolo, The class is excited today. Everyone is anxious to receive your e-mail. I really appreciate your taking the time to write to us and give us information about your country. We tried to save vesterday's dialogue, but could not come up with a way to do it, so much was lost to poor memory. Thank you so much for agreeing to fill in the gaps for us. Yesterday you told us that you lived in a village called "Castrovillari" located in a section of Italy called "Calabria" which is located in the toe of the boot. ど Done 🕜 Internet You said you were a civil engineer, educated in Italy, who had come to the United States 10 months ago to do an internship with a company in San Diego, California. http://www.3creek.com - Open Mentoring® Tour - Microsoft Internet Explorer Stage 1. Establish Stage 3: Clos Mentor Evaluation: Complete the evaluation and give feedback to the mentee.







http://www.3creek.com - Open Mentoring® Tour - Microsoft Internet Explorer

Synchronous/Virtual Learning

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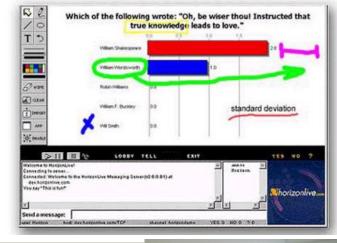
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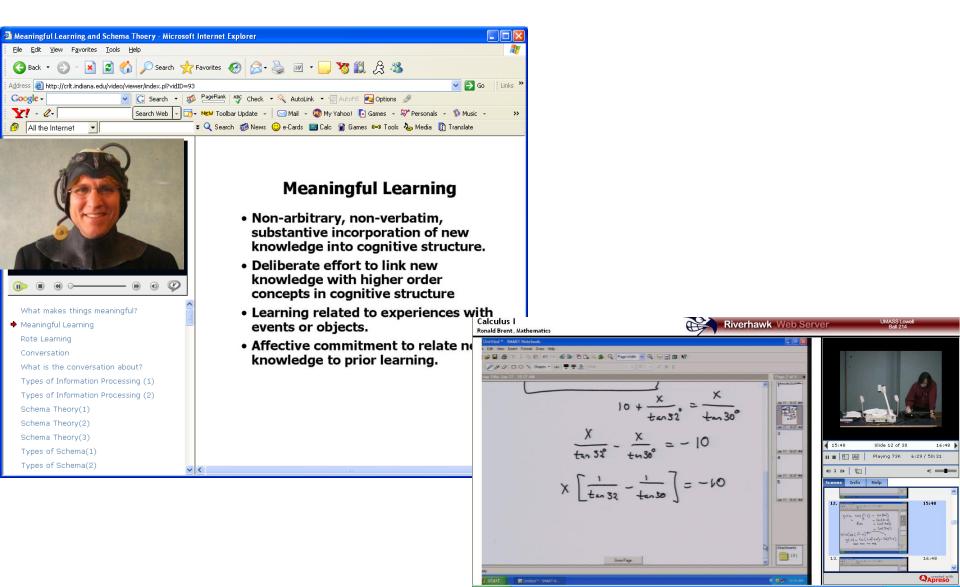
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HorizonLive : Polling

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Webcast Lectures (slides synched)



7. Online Gaming, Simulations, and Virtual Worlds CNEW, News.com, Nov. 14, 2006



Massive Multiplayer Online Gaming (MMOG)



Games and Simulations e.g., Online Jeopardy Game Thiagi.com

Please wait while Gameshow Pro 3 is loading....



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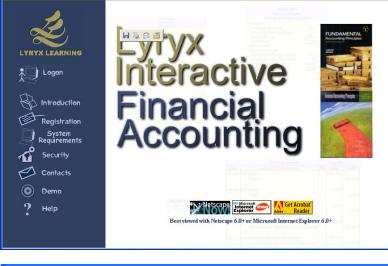




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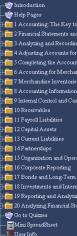


Hands-on Online Simulations (e.g., Financial Accounting; from the University of Calgary)



🗿 http://lifa.ly





Manage

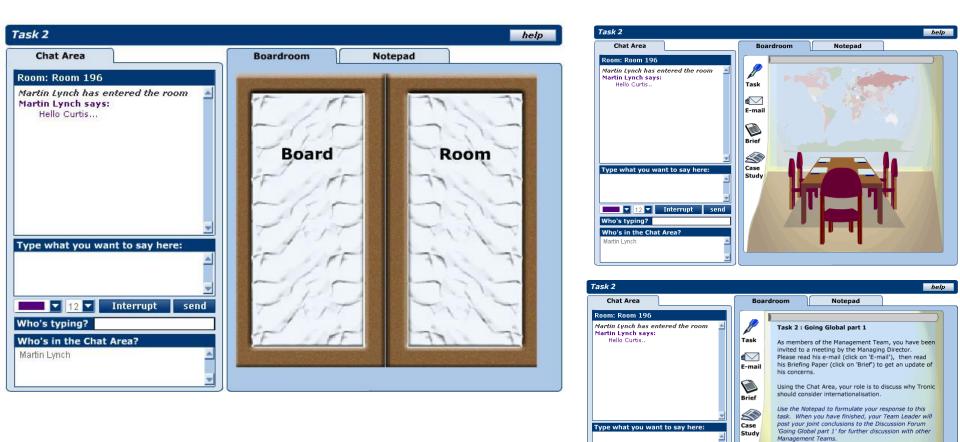
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10.3 Converting Receiva	A) AFDA B) Net Accounts Receivable	
10.4 Accounts Rec. Turs	What is the amount that will appear as bad debt expense	
10.5 Chapter Review	on the income statement for the year ended December 31, 2004	
11 Payroll Liabilities	on the meanie statement for the year charea becamber 51, 2001	
12 Capital Assets		
H 14 Partnerships	INCORRECT	
14 r annersmps	INCORRECT	
16 Corporate Reporting		
17 Bonds and Long-Term N		
18 Investments and Internat		
18.1 Purpose of Debt an	• •	
Lesson		
18.2 Accounting for Ten	That account is not used by this transaction.	
18.3 Long-Tem Investm	Try another	
18.4 Investments in Inter	Try another	

Business Class Simulated Boardroom Chat

eCollege Wales, Univ. of Glamorgan



You can read the company background again by

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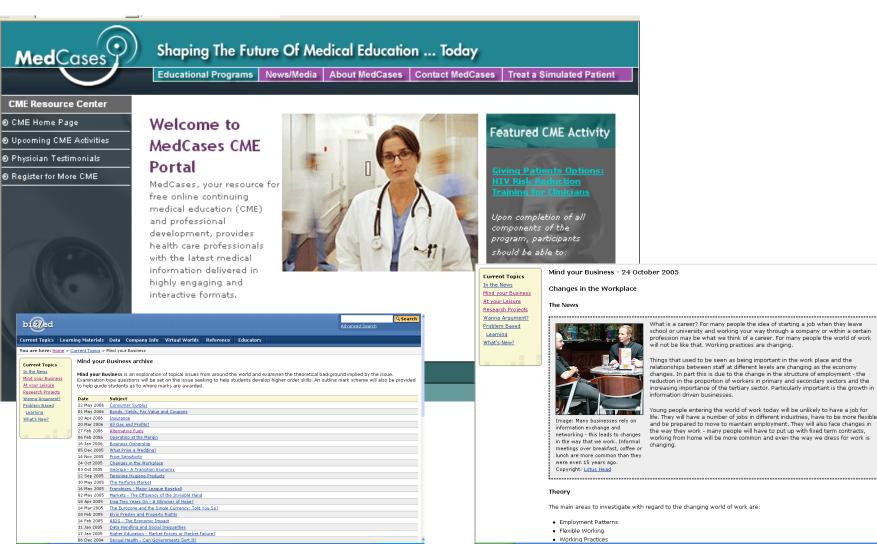
clicking on 'Case Study'.

📕 🔽 12 🔽 Interrupt send

Who's typing? Who's in the Chat Area?

Martin Lynch

Community of Learners: Medical and Business Cases Online (cases community) http://optionstraining.org/login



Resources

Definitions:

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Use the drop down boxes below to find **resources**

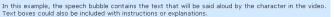
related to this name

Educational Simulations



DELIVERING TRAINING











During six trauma scenarios, each person assumes a role—nurse, x-ray technician, or emergency room physician. By selecting buttons from a menu, they control their avatar's actions, such as clearing a patient's airway.









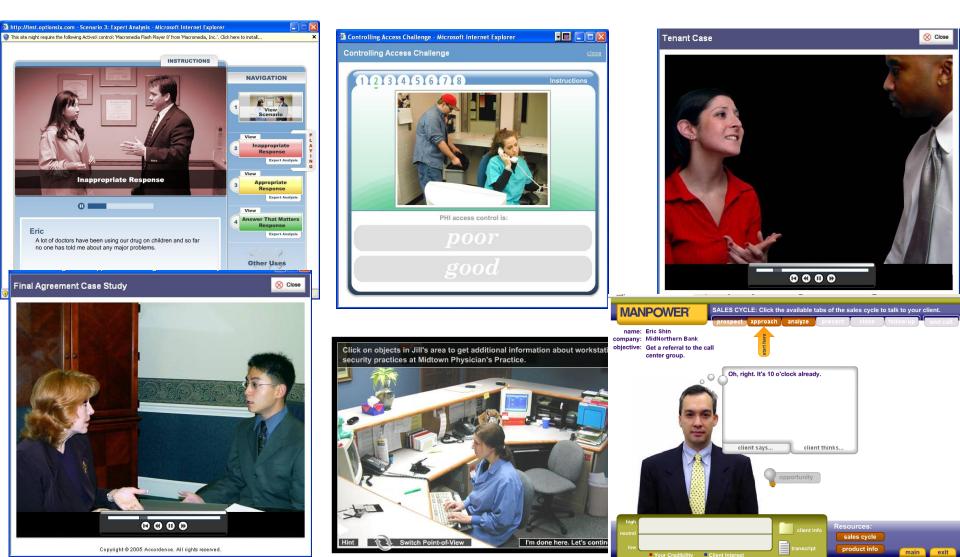
Real World Problems (PBL online): Real-time Cases



Copyright 2003 James Theroux, All rights reserved.

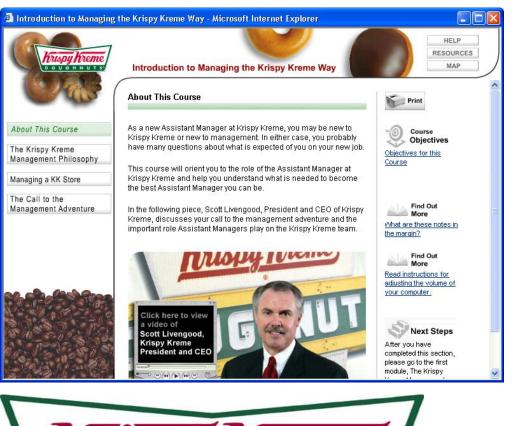
website by: ReFresh Labs

Video Scenario Learning (Option 6, Bloomington, IN; Allen Interactions)



Management 101 Krispy Kreme Assistant Mgr. Training (Option Six)

 ILT (fundamentals)-> WBT/OJT (performance)-> ILT (reinforcing performance) & Performance Support





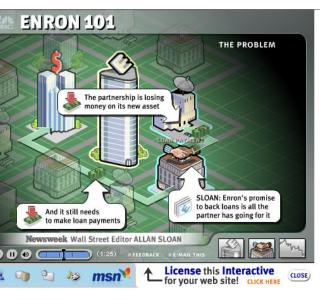
Self-Directed Learning Autonomy: Choice:

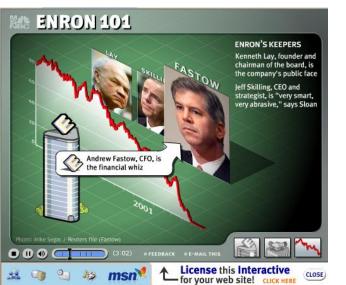
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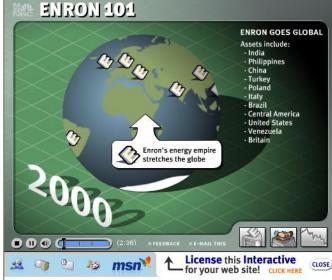


Figure 1. A screenshot of simulation in the sample soft skills course.

Interactive Online Stories & Flash Animation Cases







Ge source nos

ENRON 101



8. Mobile Learning and Portability

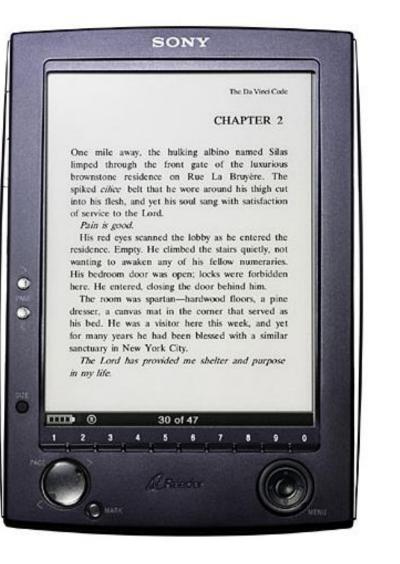


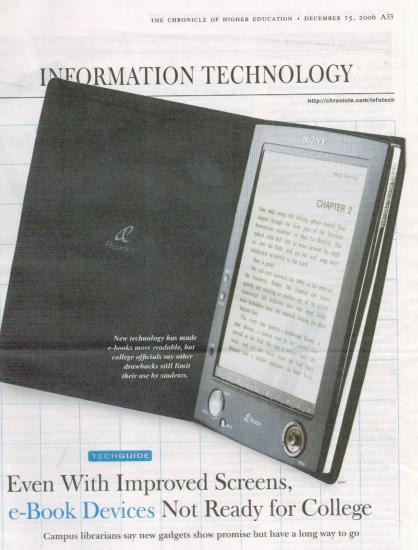




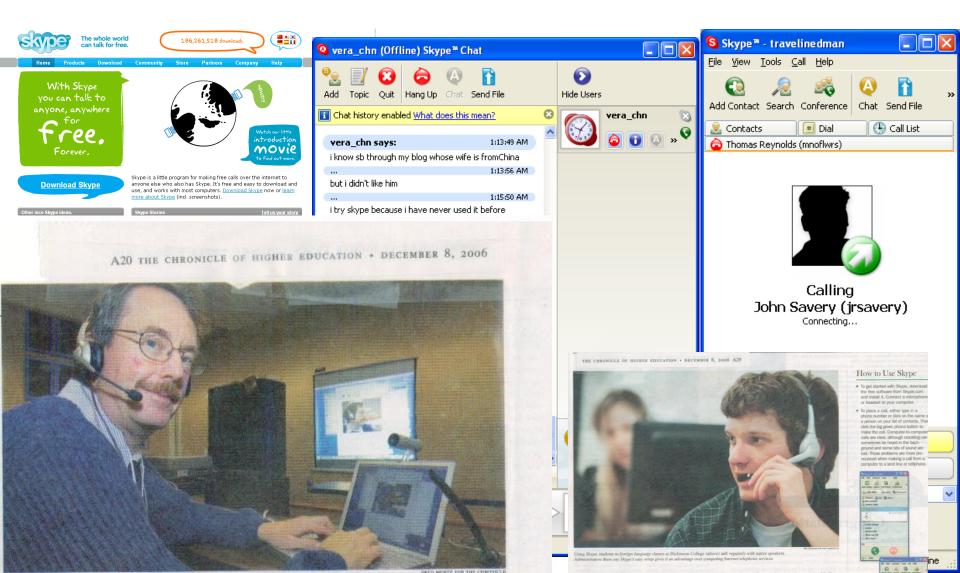


Electronic Books (e.g., The Sony Reader)





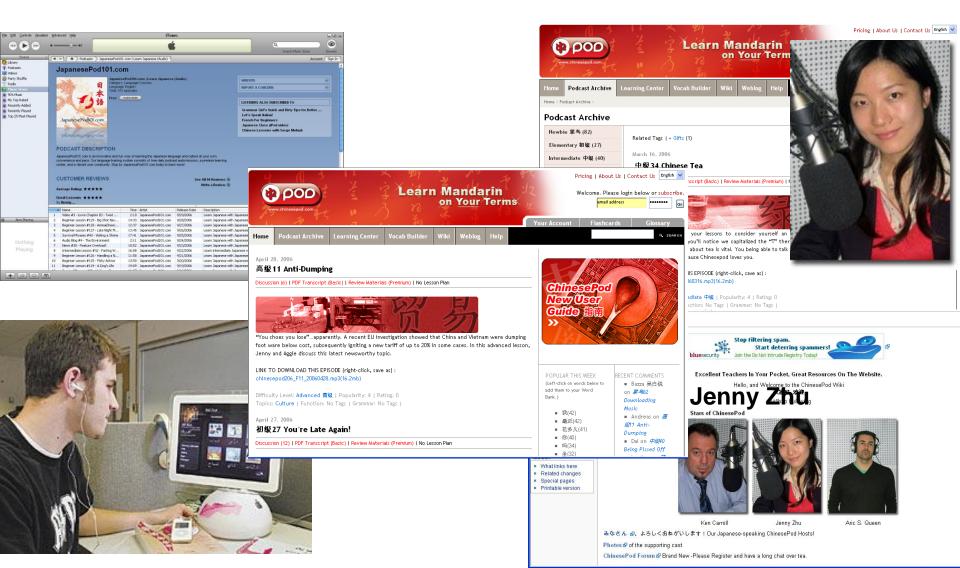
Skype: Online Phone Calls



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



Language Learning Online (e.g., ChinesePod—learn Mandarin)



Options: Watch, Listen, or Read Learning TRENDS by Elliott Masie - September 18, 2006. #402 - Updates on Learning, Business & Technology.

http://www.masie.com

CNN Pipeline

On-Site Visit to CNN Pipeline Studio in Atlanta Georgia

- On-Demand Content Objects Live and Stored
- Interview with Porter Anderson, CNN Pipeline Senior Producer
- Implications for Organizational Learning



9. Personalized Learning Tools (e.g., Business Blogs)

ELSA Home News Travel Money	Miker-Monday, August 14th
Small Business Inside Money V	Sam's Continental Divide Adventure Update #3
GET A QUOTE: Enter symbol(s) or Keywords O DJIA 11,612.71	Thanks a ton for sending me that stuff Mike it is going to save my but: Since the last update, Imanaged to take 2 days of in Bije Fork MIT to hang out with my friend Andy and go to a party on Flathead Lake (the layeet seminature) that should be that the sender of the Mississipping I had a great time and them managed to start putting the
Blogs put businesses on Web	miles host on
Updated 9/19/2006 10:30 PM ET E-mail Save Print Reprints & Pern ^{Sancurenty} in	des a <u>Surly Karate Monkey</u> equiped with their <u>"Nice Rack"</u> and <u>Arkel Panniers</u> . He is planning on riding the <u>te Trail</u> in its entirety. Godspeed!
By Jim Hopkins, USA TODAY	July 21st Bike and Trek Bicycles Commuter Night
SALLERA Ming Service : 612-339-2219 Service : 612-339-2219 Service : 612-339-2219 Service : 612-339-2235 Ming Ming	
Active Ac	

Attached are some pictures of the trip. Obviously pictures can't portray the view ... it was awesome

Jean Burngardne

The Color Amber sign in Lan

ng through Laconia and spotted this sig ow good it looks. Of the signs we have uld be one of my favorites (if not THE fa-

y that we were installing this sign, it was raining cats and di difficult to get a nice picture of it. Lee returned the next were ome paint on the posts after installation, and he was able to the state of the s

e in 2006

Some members of the Freewheel Staff look on curiously as Trek Bicycles Product Development team reveals future prototypes and concepts to our staff and customers. It was a fun night of collaboration, brainstorming, and future shaping! We were glad to help out. The free pizza and drink didn't hurt either! Stay tuned for more pictures.

Miker-Wednesday July 19th

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

II <u>Listen to a computer-generated podcast of this article</u>

March 10, 2006

Fon: The Global Wifi Network



A <u>video conversation</u> with <u>Martin Varsavsky</u>, the founder of <u>Fon</u>, at a presentation he gave at the <u>Harvard</u> <u>Berkman Center</u> on March 3, 2006.

Fon is a global wifi network of individuals ("Foneros") who provide free or low-cost wifi in their neighborhoods. If they choose to offer wifi for free, they in turn can access any other global Fon



March 12, 2006

Happy Independence Day, Mauritius!



Video montage in honor of Mauritius Independence Day.

The Indian Ocean island nation of Maurituis is a veritable paradise, but is going through hard times due to an outbreak of the mosquito-borne illness, <u>chikungunya</u>. Since the disease has scared away a lot of tourists, I thought Td put together this montage celebrating the country's 38th anniversary since independence. The five-minute montage features footage taken from all over the island, including its beaches, national parks, pilgrimage sites and the national dance known as sega.

For more on Mauritius, visit my <u>Mauritius diary</u> <u>and photo gallery</u>. -andy

Posted by acarvin at 03:59 PM Comments (2)

BM Listen to a computer-generated podcast of this article

Social Networking Software (Web 2.0)



Matt C. King (left) and Clinton DeMontelle, roommates at the U. of Nebraska at Lincob overcame their initial uncertainty about each other via Facebook and instant messages.

THE CHRONICLE OF HIGHER EDUCATION . SEPTEMBER 22, 2006 A35

A Week of Change at Facebook, as It Expands Its Membership . . .

TACEBOOK has eradented

The width years have been as a second second

When it was founded in 2004 by a group or students at Harcard University, Bacebook a lowed only people with valid college e-ma addresses to register—a restriction that gas the site an air of privaty missing from hroas er social networks like Priendster and My Srace.

In the past year, the network has quietly loosened its registration requirements. First, Facebook allowed high-school students to sign up, as long as they were invited to do so by a member of the site.

doors to employees at a handful of wellknown companies, including Apple, Microsoft, and PricewaterhouseCooper-

the perception, common money life in a dents, that Encohook was a source of the vate clubbouse on the Web. Many college of ficials have said that students continue to pocontact information and inscriminating pitures on the site without considering that it



Facebook, a nocial-networking site popular among college students, made its name serving campuser but none plans to create regional networks that will be open to all.

Oct 6, 2006, Chronicle

their personal petities visible to all other users profiles from the same region. Leaders of Facebook the could not be reached to discuss the changes. pro- Facebook's campus users can view only the sonal details to

The second secon







Are you looking to do a Reference search?

10. Open Information Communities (i.e., Learner Generated Learning) YouTube co-founders Chad Hurley and Steven Chen



Wikipedia: Participatory Learning

Entrer

Presents

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Today on CNET	News	Reviews	Compare prices	How-to	Downloads	N	3	P10
Today on News	Business Tech	Cutting Edge Access	s Threats	Media 2.0 Markets	Digital Life	My News Readers' Choice Extra	Blogs	-
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Belatedly, Britannica lambastes Wikipedia findings

By Candace Lombardi Staff Writer, CNET News.com Published: March 24, 2006, 12:05 PM PST

🕞 TalkBack 🛛 E-mail 🚘 Print

Encyclopedia Britannica has reopened the debate over how its accuracy stacks up against that of its online rival, Wikipedia.

The publisher of the venerable encyclopedia this week released a scathing 20-page rebuttal to a December article in the journal Nature that tallied errors in both Britannica and Wikipedia and found that the



WikipediA

English The Free Encyclopedia 694 000+ articles

A 32 THE CHRONICLE OF HIGHER EDUCATION . OCTOBER 27, 2006

Français L'encyclopédie libre

151 000+ articles

Svenska Den fria encyklopedin 98 000+ artiklar

> Polski Wolna Encyklopedia 81 000+ haseł

> > Português A enciclopédia livre 63 000+ artigos

Deutsch Die freie Enzyklopädie 280 000+ Artikel

日本語

フリー百科事典 135 000+ 記事

> Nederlands De vrije encyclopedie 86 000+ artikelen

Italiano L'enciclopedia libera 64.000+ articoli

Español La enciclopedia libre 61 000+ artículos

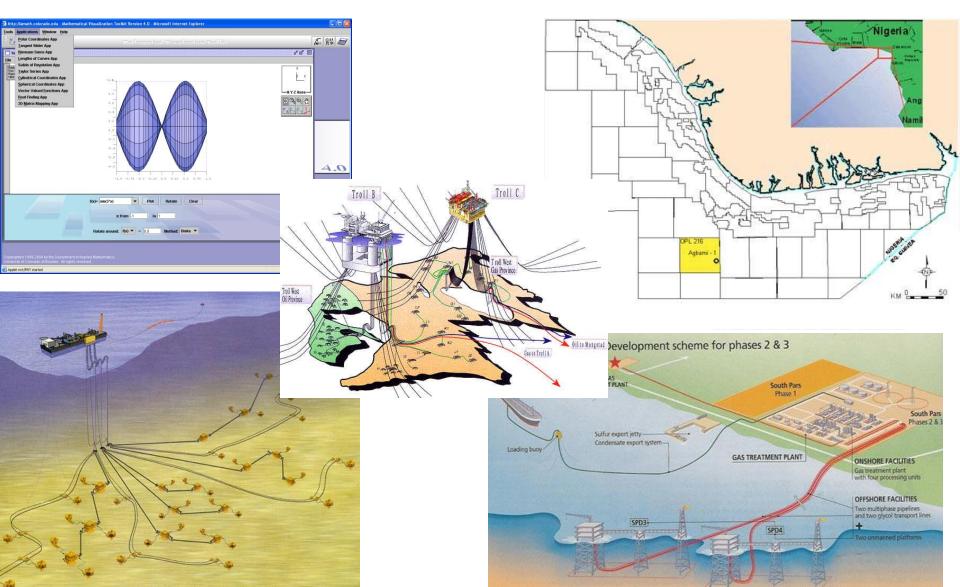
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search • suche • rechercher • 検索 • sök • zoeken • szukaj • ricerca • busca • buscar

English



Exploration and Demonstration: Virtual Fieldtrip and Tours



The Learning World is really flat!

