

# Enhancing Student Engagement in eLearning: A Theoretical Perspective



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Presented April, 2012 at CSEDU  
Porto, Portugal  
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# Outline

- Rationale
- Theory
- Practical examples

=====

- Breadth rather than depth
- Two parts to this presentation:
  1. This talk
  2. Your self-directed learning after the talk

## About this Presentation

# Why change our current teaching approaches?

1. Critiques of 'traditional' teaching
2. Net generation learners
3. Learning theories
4. Research evidence

Many examples will be given



# Four Critiques of Traditional Teaching

## 1. Learners are dissatisfied

*“My greatest concern is that the courses I teach will be as boring as the courses I took.”*

- A faculty member





## 2. Learners skip through courses

*“Students strive to finish their coursework as quickly as possible, with little attention to mastery of the actual course material and most attention on their final grades.”*

– a faculty member



### 3. Traditional teaching is not active nor interactive

*“What keeps me up at night is the rush to write out my lectures, so that I can ‘cover’ as much material as possible.”*

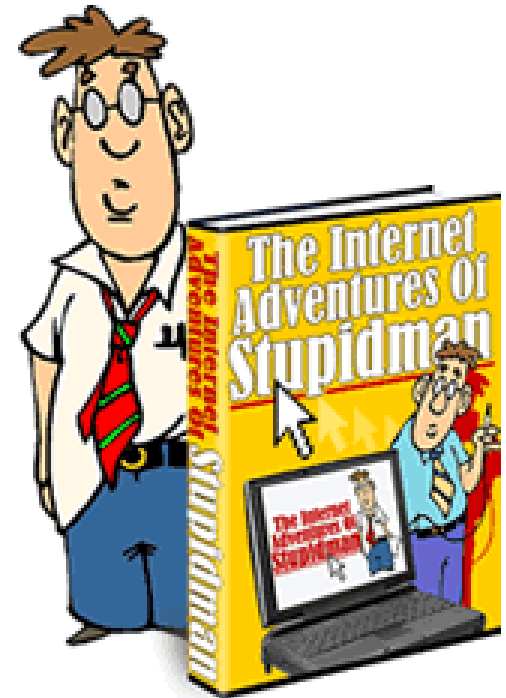
– a faculty member



## 4. Traditional teaching ignores what we know about effective learning

*“I’m not a psychologist so I don’t know much about how people learn. I teach the way I was taught”*

– a faculty member







## If engagement *in learning* is our goal, then...

Student activities should involve active cognitive processes:

- problem-solving
- reasoning
- decision-making
- evaluation

Students should be intrinsically motivated to learn from activities that are meaningful to them

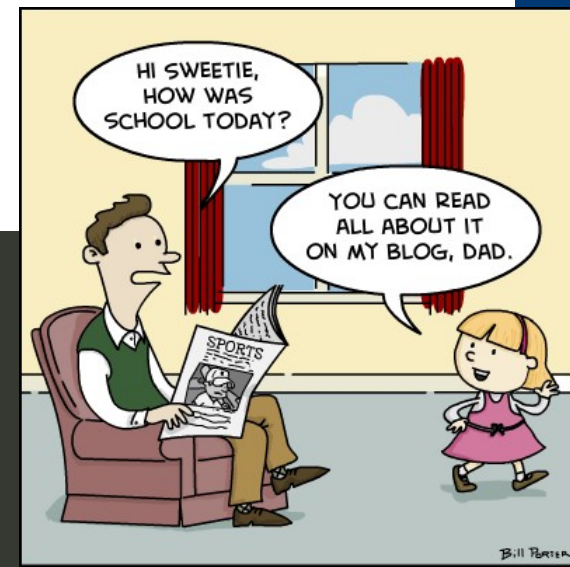
**But who are today's students?**

# Engagement

# Who are today's learners?

## *Net Generation Learners*

1. **Millennials:** Howe and Strauss (2000)
2. **Generation Y:** (or Gen Y): Nader (2003)
3. **Generation Z:** Tapscott (2009].)
3. **Echo Boomers:** Tapscott (1997, 2009).
4. **Net Generation** (or **Net Geners**): Tapscott (1997).
5. **Trophy Generation** (or **Trophy Kids**): Alsop (2008b; Tulgan (2009)
7. **Dot.Com Generation:** Stein & Craig (2000).
8. **Digital Aborigines:** Tarlow and Tarlow (2002).
9. **Nexters:** Zemke: Raines, and Filipczak: (1999).
10. **Digital Natives:** Prensky (2001a, 2001b, 2006).

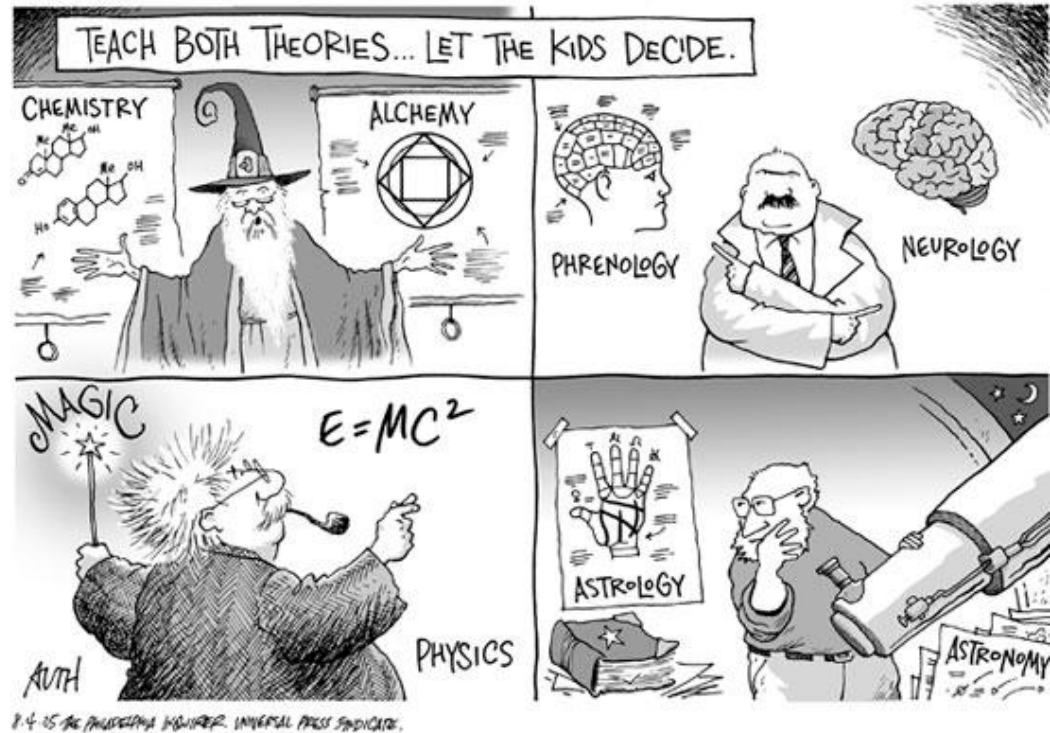
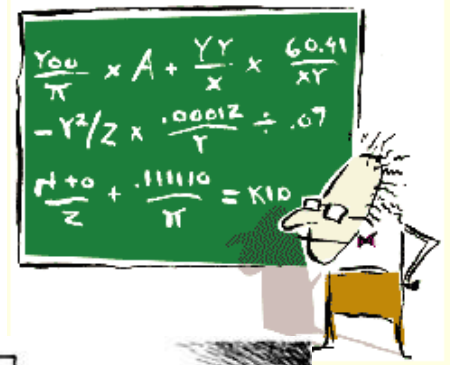


# Some Characteristics of Net Geners

1. Technology skilled
2. Rely on search engines for information
3. Interested in multimedia
4. Like to create Internet content
5. Learn by discovery / trial and error
6. Multitask on everything and have short attention span
7. Crave social interaction and prefer teamwork and collaboration.



# Learning Theory





# Elements of Motivation

- Curiosity
- Relevance
- Expectancy of success (confidence)
- Satisfaction

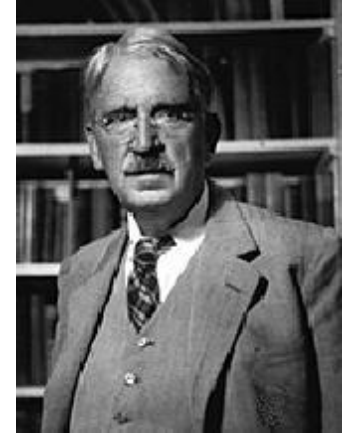
Adapted from John Keller

[www.arcsmodel.com/doc/Shellnut.pdf](http://www.arcsmodel.com/doc/Shellnut.pdf)

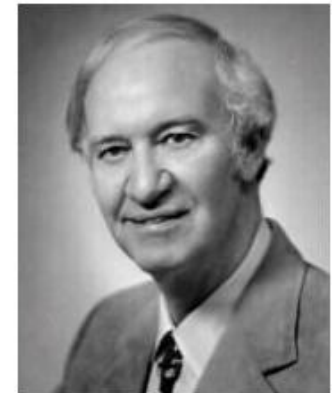
## Some Learning Theories Applied in Education

- Social Constructivism
- Experiential Learning
- Adult Learning Principles
- Reflective Practice
- Social Cognitive Theory/Self-Efficacy
- Communities of Practice

*Kaufman, DM & Mann, KV (2007; 2010)*



John Dewey



Malcolm Knowles

Lev Vygotsky



Maxine Green



Albert Bandura



## Some Principles Derived from Theories (1/2)

1. Learning is an active, rather than a passive mental process.
2. Learners should develop their own understanding through self-directed learning, combined with dialogue with their teachers and peers.
3. Learners should be given some challenging tasks they can't solve independently, and then work on these with more capable teachers or peers.



## Some Principles Derived from Theories (2/2)

4. Learning should be closely related to the understanding and solution of real-world problems.
5. Learners should practice, accompanied by reflection, self-assessment and constructive feedback from their teachers and peers.
6. Learners should be included in a 'Community of Practice' (CoP) involving their peers, more senior learners, teachers and others.





# Research Evidence about Learning-Centered Teaching

## American Psychological Association's Learning-centered psychological principles

[www.apa.org/ed/governance/bea/learner-centered.pdf](http://www.apa.org/ed/governance/bea/learner-centered.pdf)



# Research Evidence

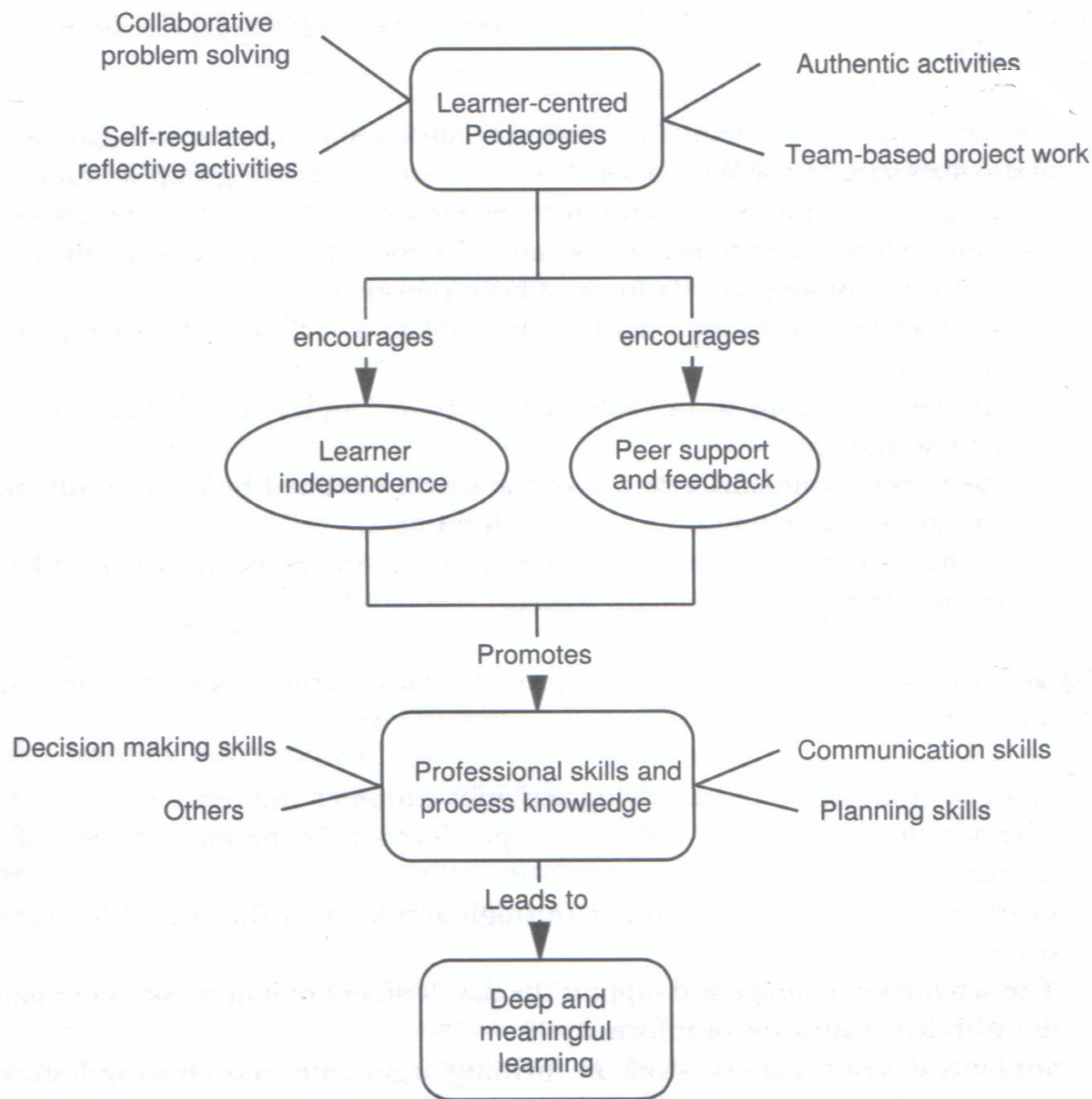
***APA Learning-Centered Psychological Principles (1997)***  
***(2 key ones)***

## **1. Nature of the learning process.**

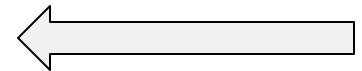
*The learning of complex subject matter is most effective when it is an intentional process of constructing meaning from information and experience.*

## **2. Social influences on learning.**

*Learning is influenced by social interactions, interpersonal relations, and communication with others.*



A Nice  
Overview



**Figure 13.4** Student assessment process in a networked peer learning task (McLoughlin and Luca, 2001)

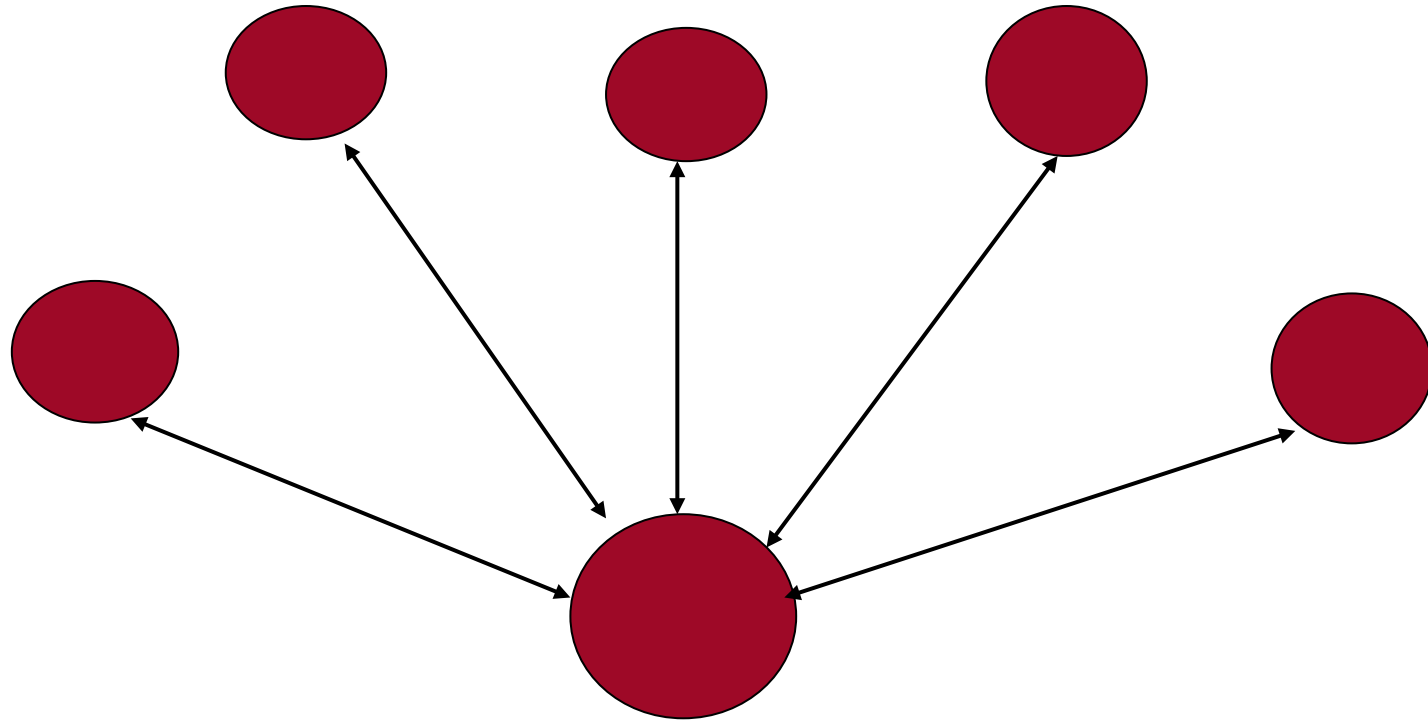
- **Use collaborative activities**  
e.g., cooperative learning structures such as think-pair-share, jigsaw, roundtable, value line  
[www.literacynet.org/icans/chapter01/overview.html](http://www.literacynet.org/icans/chapter01/overview.html)
- **Assign group and individual challenges**  
e.g., Cases, problems, team projects, competitions
- **Integrate technology appropriately**



# What is 21<sup>st</sup> century eLearning?

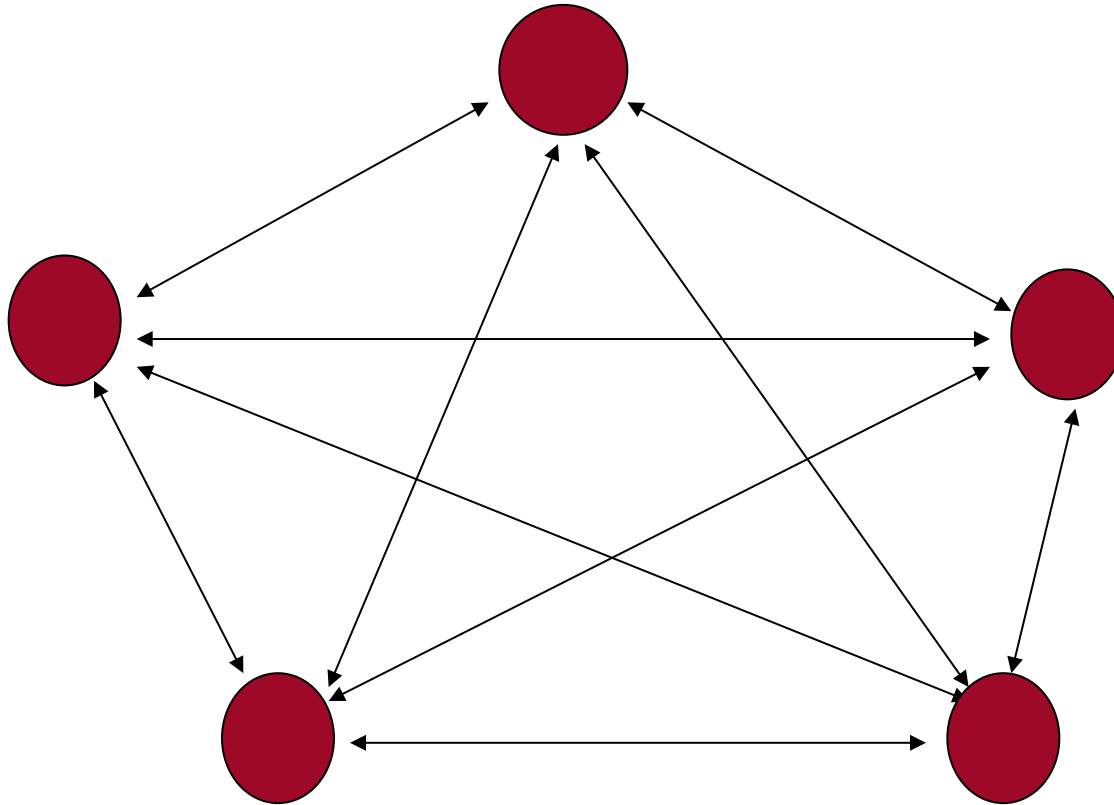


## Teacher-directed



## Teacher-directed vs student-centered teaching

## Student-centered



**Teacher-directed vs student-centered teaching**

Don't discard lectures...

Discuss the question below for one minute with  
your partner

I will ask a few of you for your answer

What's the benefit of a good lecture?

1. Provide an overview of your field
2. Explain difficult concepts
3. Model your thinking
4. Inspire students

But keep your lectures short or interactive!

What's the benefit of a good lecture?



# Use collaborative activities



## Write down one or two questions

“I’d like you to write down one or two questions you have at this point. Get the question exactly right so that it addresses what you are really interested in or confused about.”

“Take the questions you have written down and ask them to other students in the forum until you have satisfactory answers.”

- **Discuss a question**

“In pairs, discuss the following question online.”

**Collaborative activities you can easily  
use in your online teaching**

# Think-Pair Share (online)

1. Think about the following question
2. Discuss the question with your online partner(s)
3. Post your answers in the class forum

**Easy collaborative activities you can use  
in your online teaching (2)**

- Kagan and Kagan (1998) developed roughly 200 classroom "structures", which may be thought of as steps to classroom activities.
- The structures have various aims, such as: building team cohesion and positive relationships among students; information sharing; critical thinking; communication skills; and mastery (learning/remembering) of specified material.
- Many of the structures can fulfill a number of aims simultaneously, depending on how the teacher uses them.

## Cooperative Learning Structures

Structure	Brief Description	Functions (Academic & Social)
Roundrobin	<b>Teambuilding</b> Each student shares something with his or her teammates, by going around in a circle.	Expressing ideas and opinions, creation of stories. <i>Equal participation getting acquainted with teammates.</i>
Jigsaw	Each student on the team becomes an “expert” on one topic by working with members from other teams assigned the corresponding expert topic. Upon returning to their teams, each one in turn teaches the group; and students are all assessed on all aspects of the topic.	Acquisition and presentation of new material, review, informed debate. <i>Interdependence, status equalization.</i>

## Selected Cooperative Learning Structures



k3264548 www.fotosearch.com

# Assign Group Challenges



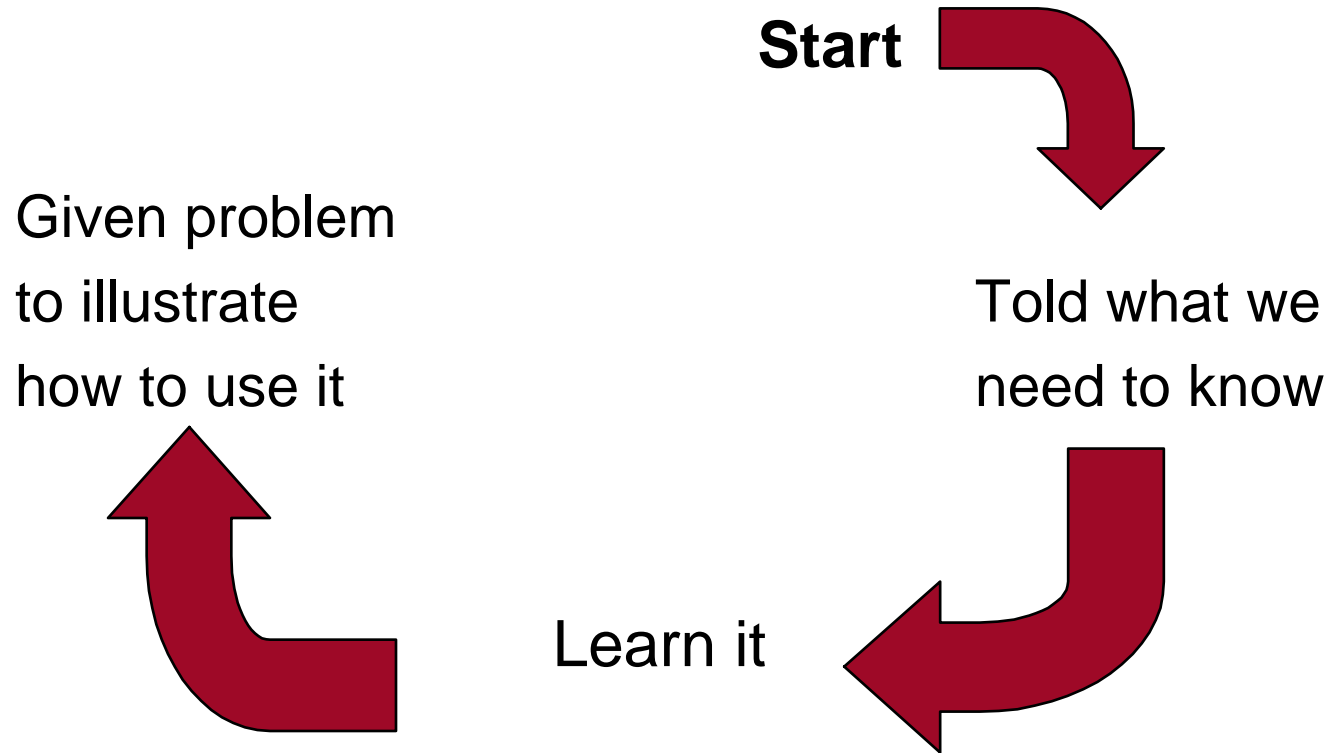
# Problem-Based Learning

## PBL

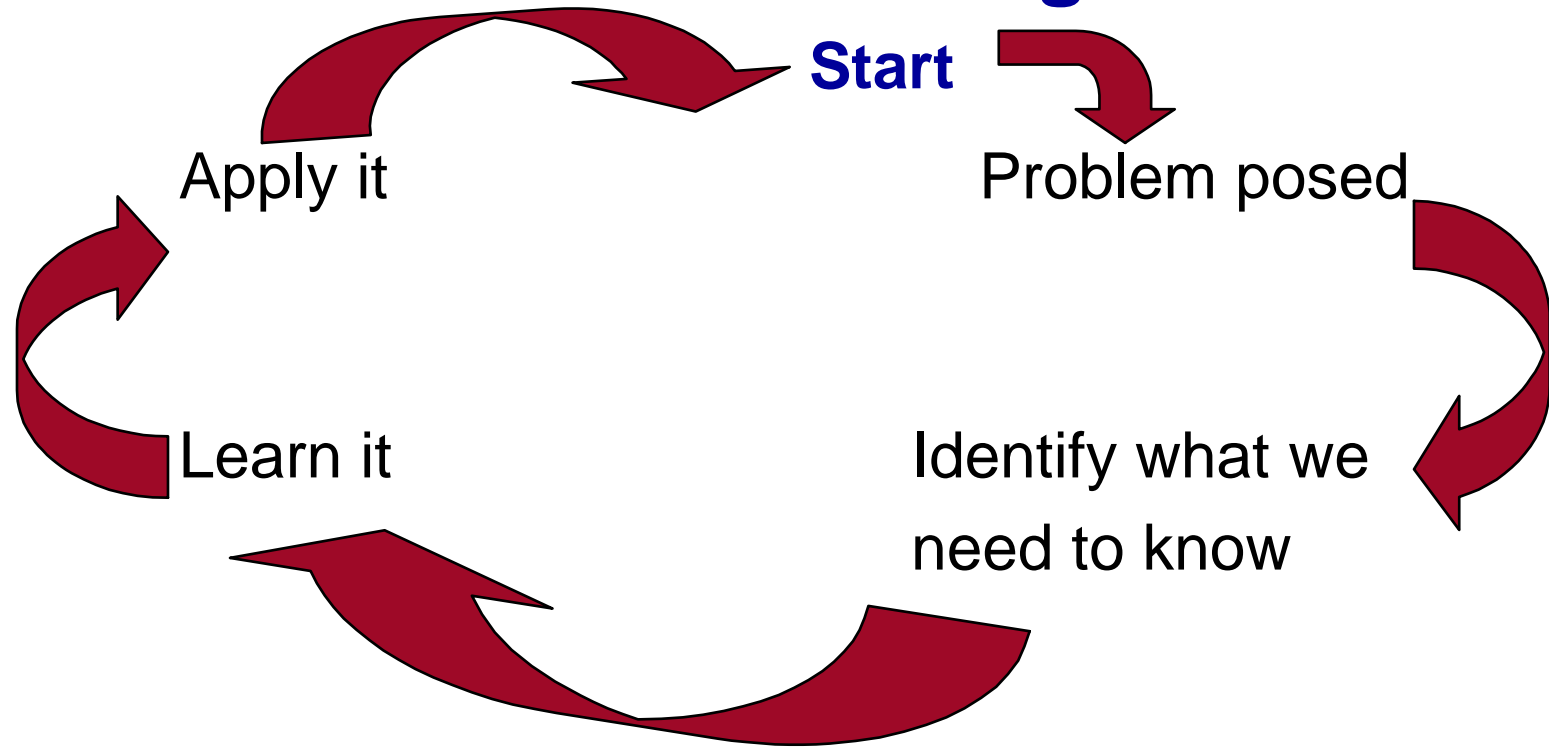


**One example**

# Subject-Based Learning: SBL



# Problem-Based Learning: PBL



Many other examples will be shown later



## EDUCATION

EXCELLENT TEACHERS TEACH/USE THEMSELVES WITH AUTHORITY

# Use Technology Appropriately

# Use technology in lectures, demos, activities, assignments

## Examples:

1. Music, podcasts, video, games, blogs, wikis, search engines, databases
2. Consider multiplayer virtual environments
3. Include simulations & games

Adapted from Berk (2009)



**How do we enhance engagement and learning for 'net geners'?**





# Simon Fraser University

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## podCasting @ SFU

Welcome to the podcasting service at Simon Fraser University. This site provides access to course lectures for registered students, as well as many items of interest to the general public.

Watch a [quick tutorial](#) on how to get started.

Many lecture recordings can now be subscribed to with a podcasting client (like iTunes) via an easily configured interface. The recordings can then be automatically updated and transferred to a portable device, for example an iPod, for convenient listening.

E-mail: [podcast@sfu.ca](mailto:podcast@sfu.ca)

### Recent Course Recording Statistics

<b>Summer 2011 Semester</b>	
Total Courses	70
Total Lectures	486
<b>Last Year</b>	
Total Courses	451
Total Lectures	7874
<b>Last Three Years</b>	
Total Courses	1353
Total Lectures	23622

### Course Lectures



Many courses, with thousands of lectures, are available each semester to students registered in the courses.

[Click here to find out if your lectures are being recorded and find out how to subscribe to them.](#)

### Public Lectures



Many of the presentations at the university are of general interest.

[Click here to see what is available and subscribe.](#)

### Public Events



Simon Fraser University hosts a wide variety of social, community, and educational events.

Coverage of the recent Dalai Lama visit, Julie Payette speech and many more events are available in this podcast.

[Click here to find out more and to subscribe.](#)

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[Webmaster](#)

http://cgis.fsu.ca/~lectures/pub\_html\_podcasts/cgi

# Videogames and Tangential Learning

[www.youtube.com/watch?v=rN0qRKjfX3s](http://www.youtube.com/watch?v=rN0qRKjfX3s)


YouTube - Video Games and Learning

www.youtube.com/watch?v=rN0qRKjfX3s

Search Browse Upload dkaufman98 Sign Out

## Video Games and Learning

kirithem 16 videos Subscribe



0:06 / 7:20

142,129

1,469 likes, 28 dislikes

Uploaded by kirithem on Sep 8, 2008

\*\*We've moved to The Escapist! New episodes weekly!\*\*

### Suggestions

- Animals Video for Kids**  
by teachmmobile  
26,018,727 views  
Featured Video
- white or black good or evil**  
by kirithem  
65,433 views
- Video Games and Moral Choices**  
by kirithem  
65,433 views
- Video Games and Storytelling**  
by kirithem  
149,435 views
- Video Games and the Uncanny Valley**  
by kirithem  
139,775 views
- Educational Games**  
by andy1288  
1,677 views
- Video Games and Choice**  
by kirithem  
84,651 views

## Ted Talks

### Ken Robinson; Changing Education paradigms



Creativity expert Sir Ken Robinson challenges the way we're educating our children. He champions a radical rethink of our school systems, to cultivate creativity and acknowledge multiple types of intelligence.

[www.ccccone.org/node/393](http://www.ccccone.org/node/393)



<http://secondlife.com/>





What Is Second Life?

World Map

Shopping

Buy Land

Community

Help

Join Now >>  
It's fast, free and easy!

## Avatar

Become  
Your  
Avatar.

FREE AVATAR >>

Name:  
Amy E.  
Residence:  
California, USA  
Occupation:  
Musician



Avatar Name:  
Keiko Takamura  
Residence:  
Flotsam Beach  
Occupation:  
Musician

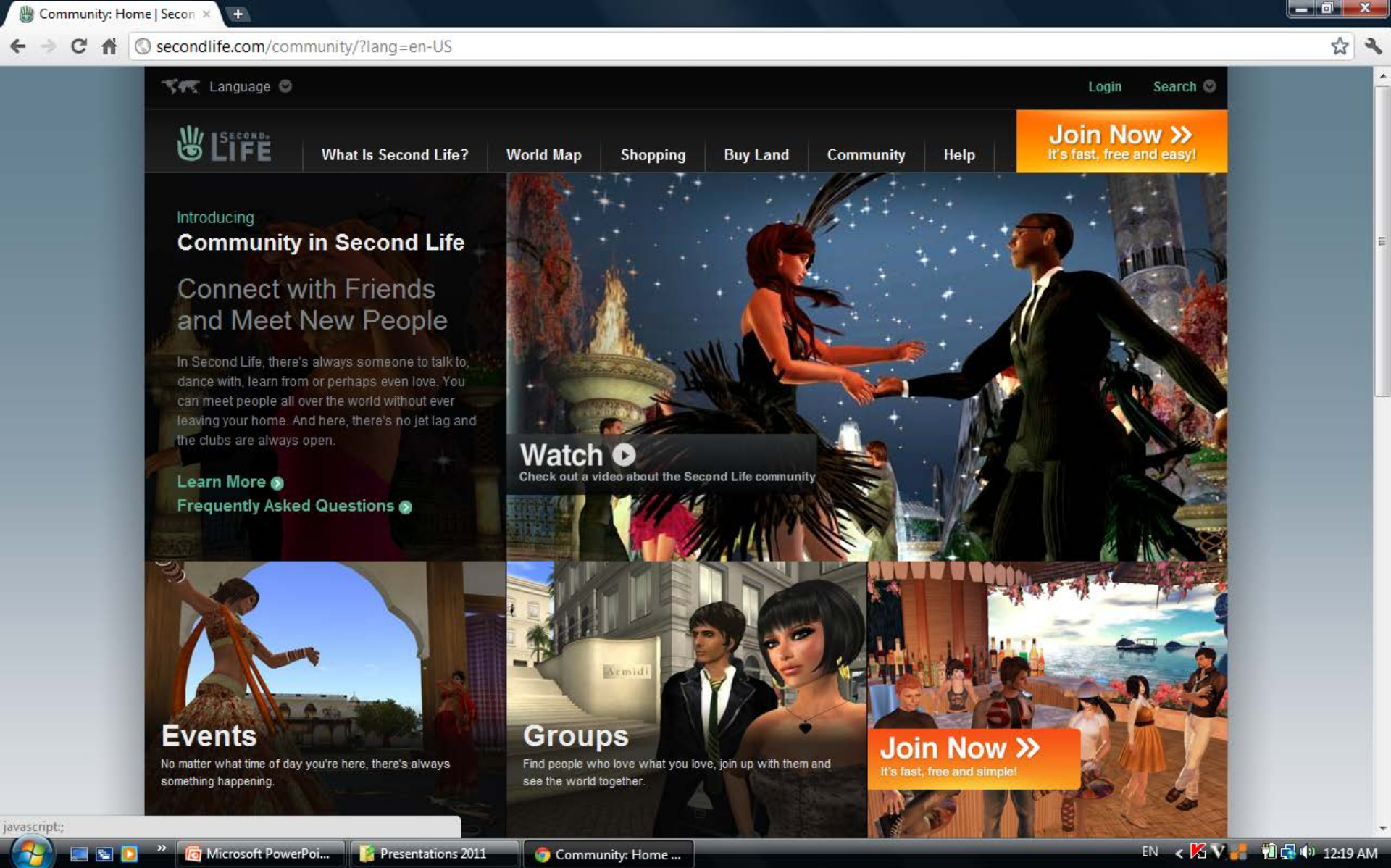
## What is an Avatar?

You may have heard the term "avatar" from friends, on the Web or in the news. For example, there's the James Cameron-directed movie "Avatar" and a popular animated TV show "Avatar: The Last Airbender." But, what exactly is an avatar in Second Life? In a virtual world, an avatar is a digital persona that you can create and customize. It's you — only in 3D. You can create an avatar that resembles your real life or create an alternate identity. The only limit is your imagination. Who do you want to be? [Create your avatar in Second Life by signing up now >](#)





<https://join.secondlife.com/?lang=en-US>



<http://secondlife.com/community/?lang=en-US>

# Rely on Search Engines for Information

Provide assignments that rely on search engine skills

Give guidance on how to think critically and interpret the information (information literacy)

Examples:

1. Webquests
2. Problem-solving
3. Writing papers requiring online searching



How do we Enhance Engagement for Net Geners?

Information literacy  
is important

## Webquests: A Taxonomy of Tasks

Design tasks	Powerpoint or report
Compiling tasks	Virtual exhibition
Mystery tasks	Solve a mystery
Journalistic tasks	Report on an event
Scientific tasks	Design a home
Study a webcam site	
Many others	

See <http://webquest.sdsu.edu/taskonomy.html>

## **Porto facts**

<http://en.wikipedia.org/wiki/Porto>

## **Porto video**

[http://www.youtube.com/watch?v=re4\\_9bIE4ts](http://www.youtube.com/watch?v=re4_9bIE4ts)

## **Porto information**

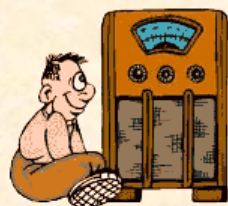
<http://www.travel-in-portugal.com/Porto/>

## **Webcam for Porto**

<http://www.truelookcams.com/portugal/porto/32359-porto-portugal>

# **Porto Resources**





# Radio Days: A WebQuest

<http://www.thematzats.com/radio/index.html>

By Cynthia Matzat


 [Introduction](#) |  [Task](#) |  [Resources](#) |  [Process](#) |  [Evaluation](#) |  [Conclusion](#)



## Introduction

Back before there were televisions and computers, there was radio. Families of the 1930s and 1940s would gather around the radio and listen to their favorite programs such as *Little Orphan Annie*, *Amos and Andy*, *The Guiding Light*, and *The Shadow*. Millions of Americans tuned in daily to their favorite programs, just as today we tune in to our favorite television shows. Radio allowed the listener to create their own images of characters and settings, a luxury that we no longer have in these days of television. Take a journey back to the "Golden Age of Radio" as you learn about Radio Days.

[Top](#)

 **The Task** You are an employee of a local radio station. Your boss, who grew up during the "Golden Age" of radio, has decided to add new programming to the station. He has assigned you and your co-workers the task of writing and producing a new radio drama. Your boss expects you and your co-workers to research the history of radio drama and use this knowledge to create a script for a new radio mystery/suspense series. He wants the script to contain references to sound effects as well as the actors' dialogue. In addition to the script,

[www.thematzats.com/radio/index.html](http://www.thematzats.com/radio/index.html)



- **Use multimedia in your presentations and activities**
- **Get students to share their favorites**

**Examples: music, images, video, games,**

**How do we enhance engagement for Net Geners?**

YouTube - Tom Lehrer CHI x

www.youtube.com/watch?v=DYW50F42ss8&NR=1


YouTube

Search | Browse | Upload

dkaufman98 Sign Out

# Tom Lehrer CHEMISTRY element song

**dongkoi** 35 videos Subscribe



**The Element Song**

0:03 / 1:25 240p

Like Add to Share

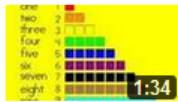

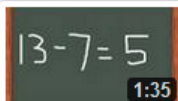



1,356,741

3,461 likes, 74 dislikes

Uploaded by **dongkoi** on Oct 12, 2007

follow me in twitter @iamdonhey

## Suggestions

-  **Counting Song- counting to 10 for young children**  
by Gracie48  
2,456,191 views Featured Video
-  **Daniel Radcliffe sings "The Elements" - The Gra...**  
by BBC  
1,342,495 views
-  **Tom Lehrer - New Math**  
by fezmovies  
1,436,247 views
-  **Periodic Table Of Elements Song With Lyrics**  
by luciebabes92  
270,844 views
-  **The element song**  
by luaker  
2,439,021 views
-  **Tom Lehrer - Poisoning Pigeons In The Park - no...**  
by 6funswede

Windows taskbar: 10:38 AM

Music

Tom Lehrer Chemistry elements song

[www.youtube.com/watch?v=DYW50F42ss8&NR=1](http://www.youtube.com/watch?v=DYW50F42ss8&NR=1)



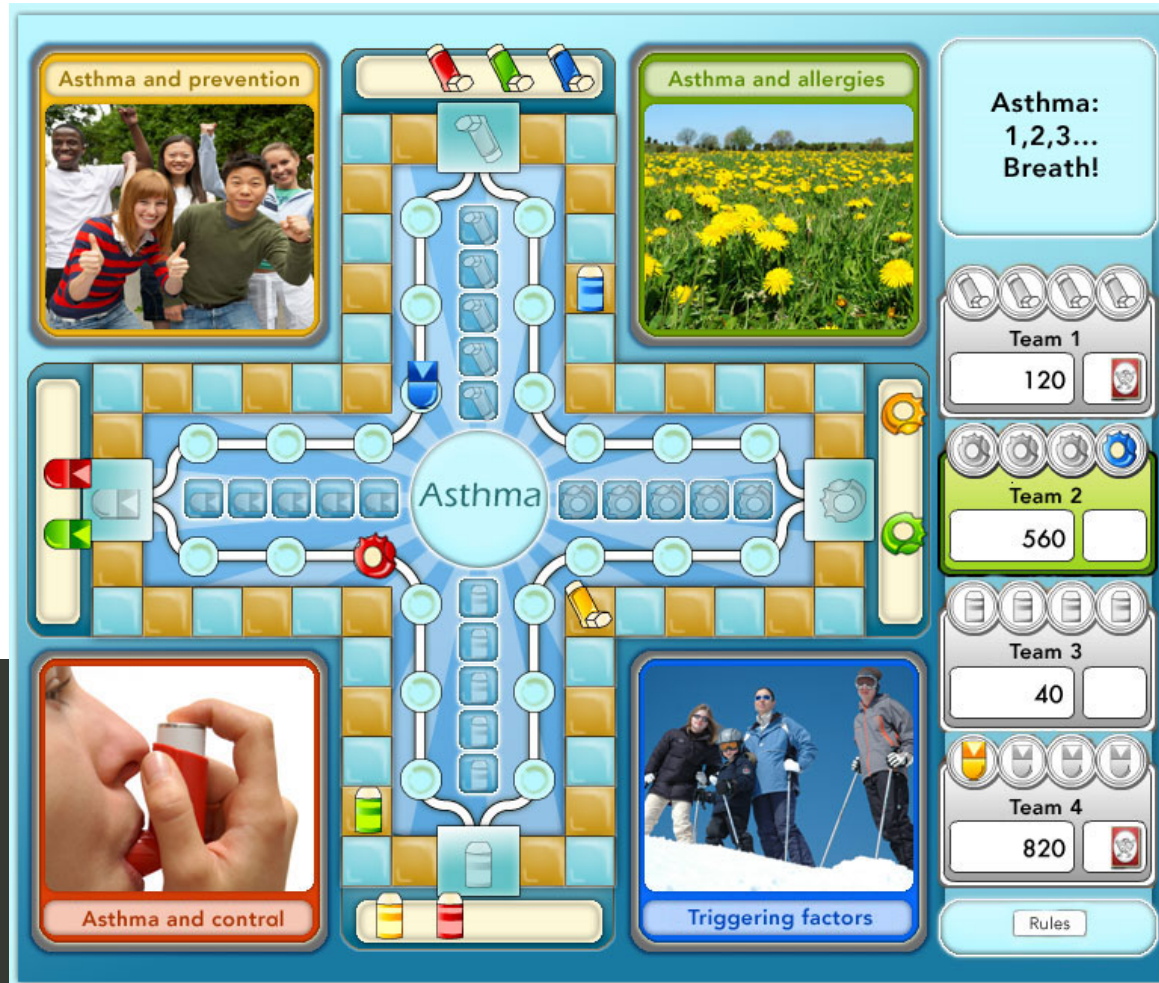
**Use interesting images in  
your presentations**



# Online Games

## *Game board for Asthma: 1,2,3... Breathe!*

[www.savie.qc.ca/carrefourjeux2/Accueil\\_content\\_an.asp](http://www.savie.qc.ca/carrefourjeux2/Accueil_content_an.asp)





# Create Internet Content

- Provide students with opportunities to contribute to websites

## Examples:

1. Write their own blogs
2. Create team wikis
3. Create YouTube videos, podcast, vodcasts with appropriate content
4. Create an e-Portfolio

**How do we enhance engagement for Net Geners?**

# Animations

← → M http://mashable.com/2010/10/27/create-animation mashable.com

File Edit View Favorites Tools Help

★ MoodleEdD eBay Customize Links Suggested Sites Get more Add-ons Yahoo! Mail

## 6 Free Sites for Creating Your Own Animations

October 27, 2010 by Sarah Kessler

33

1,622

Tweet

7

+1

395

13

Pin it

15

in Share

tumblr

email


Ads by Google

**Computer Animation Course** - Part time or full time courses. Get real experience & real results.  
[bcit.ca/Computer-Animation](http://bcit.ca/Computer-Animation)


The long and illustrious history of moving pictures all started with the zoetrope. Then there was the thaumatrope, the flip book, and my personal favorite, the phenakistoscope. And now we have (drumroll please): The Internet.

People have been excited about moving pictures for ages. But achieving a passable animation has never been as easy or required as little talent as it does today.

Previously, we made some suggestions for sites where you can get your webcomic on. This week, we're bringing you five excellent ways to tackle animation, the next step in your pseudo-artistic journey.



1. GoAnimate

Mashable on  Follow

Like 861237 likes. Sign Up to see what your friends like.

+1 59k Recommend on Google

Follow @mashable 2.8M followers

LinkedIn YouTube Stumble RSS

More subscription options »

**Digital Animation Course**  
Part time or full time courses. Get real experience & real results.  
[bcit.ca/Digital-Animation](http://bcit.ca/Digital-Animation)

**Page Flip Software**  
Next generation page flip software. Download and try for free!  
[www.3DIssue.com](http://www.3DIssue.com)

**Cheap Flights Canada**  
Save Up To 47% On Your Next Flight. Book Now. During This Special Offer

EN 11:58 PM 02/04/2012

[www.blogger.com](http://www.blogger.com)

<http://wordpress.com/>

The screenshot shows the WordPress.com homepage in a web browser. The browser's address bar displays "wordpress.com". The page features a navigation bar with a login form (Username, Password, Log In, Remember me, Lost your password?) and a search bar. The main content area is divided into several sections:

- Left Sidebar:** A large heading "A better way to blog." with an orange "Get started here" button and a link to "Learn more or sign up now."
- Top Row:**
  - Freshly Pressed:** A section titled "Freshly Pressed:" with a "Subscribe" button. It lists statistics: "The best of 373,999 bloggers, 381,621 new posts, 310,356 comments, & 80,257,379 words posted today on WordPress.com."
  - The Words of my Father:** A post by Whip Smart, featuring a photo of a family. It includes a link "Posts about humor →".
  - Coney Island Rocks!** A post featuring a photo of a boardwalk scene.
- Second Row:**
  - Play ball!** A post by 20 Prospect, featuring three small photos of baseball players. It includes a link "Posts about baseball →".
  - Ten Ways to Say "Thank you, Dad"** A post by Planet Mom, featuring a photo of a man and a baby. It includes a link "Posts about parenting →".
  - Photos from Ardenwood Farm** A post by A Happy Day, featuring a photo of a farm scene. It includes a link "Posts about photography →".
- Third Row:**
  - Surprise! It's a...** A post by Colour Her (Hope), featuring a photo of a chalkboard with "Mistake Boys Party" written on it. It includes a link "Posts about life".
  - You are lying to yourself. You won't remember.** A post by My Simple Inspiration, featuring a photo of a notebook and a yellow box.
  - My Dad Has No Rhythm, Yet Is Master Of The Dance** A post by Ramblings, featuring a photo of a family.

The browser's taskbar at the bottom shows several open applications: Microsoft PowerPoint, Presentations 2011, and the WordPress.com page in Google Chrome. The system clock indicates 10:50 PM.



# ePortfolios

<http://demo.mahara.org/>

The screenshot shows a web browser window displaying the Mahara Demo Site. The browser's address bar shows the URL <http://demo.mahara.org/>. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The toolbar shows various icons for navigation and search. The website's header features the Mahara logo, the text "Open Source ePortfolios", and a language selector set to "Site Default (English)". The main content area has a green heading "Welcome to the Mahara Demo Site" followed by a paragraph describing Mahara as a web application for building electronic portfolios. A red warning message states that the site will reset itself once a day at 7 a.m. GMT / UTC. Below this, it mentions that all content will be erased and only pre-configured content will be available. It also provides instructions on how to keep content before a reset by exporting it to a Leap2A portfolio. A "Demo accounts" section lists logins and passwords. A "Login" box on the right side of the page contains fields for username and password, and buttons for "Login", "Register", and "Lost Username/Password". The Windows taskbar at the bottom shows various application icons and the system clock indicating 12:20 AM on 03/04/2012.

http://demo.mahara.org/ Home - Mahara

File Edit View Favorites Tools Help

MoodleEdD eBay Customize Links Suggested Sites Get more Add-ons Yahoo! Mail

**maħara** Open Source ePortfolios  
*(mah-hah-rah;verb): to think, thinking, thought*

Language: Site Default (English) Change

## Welcome to the Mahara Demo Site

Mahara is a fully featured web application to build your electronic portfolio. You can create blogs, upload files, embed third-party resources from the web and collaborate with other users in groups.

**This site will reset itself once a day at 7 a.m. GMT / UTC.**

All content will be erased then and only the pre-configured content will be available.

If you want to keep anything before the reset, please export your portfolio in Leap2A under My Portfolio -> Export to be able to import it into another Mahara later on.

### Demo accounts

Logins	Password for all logins
<ul style="list-style-type: none"><li>student1</li><li>student2</li><li>tutor (institution staff account)</li><li>staff (institution staff account)</li><li>admin (institution admin account)</li></ul>	Testing1

You can also register on this site and use it with your own username until the site is reset at 7 a.m. GMT.

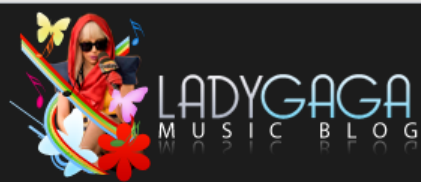
**Login**

Username: \*

Password: \*

Login Register  
Lost Username/Password

EN 12:20 AM 03/04/2012



HOME ABOUT THIS SITE CONTACT US WHO IS LADY GAGA MARKETPLACE

search our site...

APPEARANCES LADY GAGA LADY GAGA FASHION LADY GAGA LYRICS LADY GAGA MUSIC LADY GAGA MUSIC VIDEOS LADY GAGA VIDEOS

#### Lady Gaga News



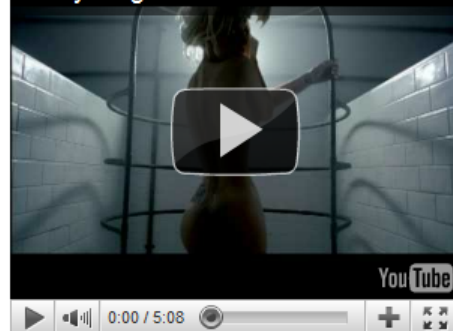
#### Lady Gaga becomes a 'billion-hit' artist

If you have watched any of Lady Gaga's online videos, you are part of this story. The controversial, and for some too racy, artist's online videos have recorded one billion hits making her a record breaker. The three videos on YouTube and Vevo that helped Lady Gaga set the record... [\[Read more\]](#)



#### Featured Music Video - Lady Gaga Bad Romance

#### Lady Gaga - Bad Romance



#### Music - Lady Gaga Songs

ladygagamusicblog

Due to licensing restrictions, some or all tracks may be unavailable for playback in your country.

#	Title	Artist
---	-------	--------

www.ladygagamusicblog.com/lady-gaga-becomes-a-billion-hit-artist/

Barack Obama (BARACKOBAMA) x

Barack Obama (BARACKOBAMA)

twitter.com/#!/BARACKOBAMA

twitter

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dkaufman98

2012

BARACKOBAMA.COM



Barack Obama

@BarackObama

Washington, DC

This account is run by #Obama2012 campaign staff. Tweets from the President are signed -BO.  
<http://www.barackobama.com>

Follow

Tweets

Favorites

Following

Followers

Lists



BarackObama

Barack Obama

Meet Alex: a father of four who's spending his summer learning how to be a community organizer. Watch the video: [OFA.BO/Ve7ftJ](http://OFA.BO/Ve7ftJ)  
9 hours ago



BarackObama

Barack Obama

Being a father is sometimes my hardest but always my most rewarding job. Happy Father's Day to all the dads out there. -BO  
11 hours ago



BarackObama

Barack Obama

Help bring someone new into this campaign today. Find a National Day of Action event near you: [OFA.BO/GGkG5f](http://OFA.BO/GGkG5f) #Obama2012  
18 Jun



BarackObama

Barack Obama

If you've enjoyed the President's tweets, don't worry—he'll still make frequent appearances here. More on this change: [OFA.BO/yEPdZZ](http://OFA.BO/yEPdZZ)  
17 Jun



BarackObama

Barack Obama

Welcome to a new @BarackObama. From now on, #Obama2012

About @BarackObama

1,377

695,652

8,726,655

146,031

Tweets

Following

Followers

Listed

Similar to @BarackObama · view all



whitehouse

The White House

Official WH twitter account. Comments & messages ...



SenJohnMcCain

John McCain

U.S. Senator John McCain (R-AZ)



SarahPalinUSA

Sarah Palin

Former Governor of Alaska and GOP Vice President...

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Barack Obama (BAR...

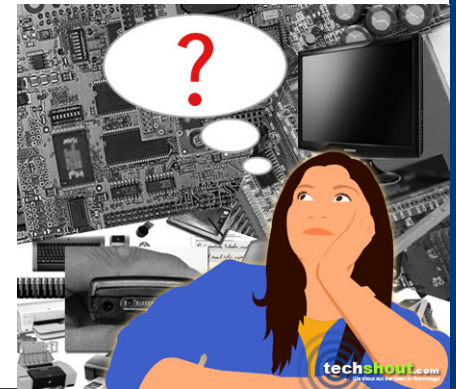
EN 10:13 PM

<http://twitter.com/#!/BARACKOBAMA>

- **Shorten your presentations and assign individual and group work**

**Examples:**

- 1. Use cases and problems requiring problem-solving and/or decision-making**
- 2. Use games and simulations**



**How do we enhance engagement for Net Geners?**



## Online Simulations in Physics, Biology, Math, Chemistry- Virtual Labs

## PHET at the University of Colorado

<http://phet.colorado.edu/>

The screenshot displays the PhET website interface. At the top, the PhET logo is on the left, and the text "Interactive Simulations UNIVERSITY OF COLORADO AT BOULDER" is on the right. Below the header, there is a search bar. The main content area is titled "Simulations > Physics". On the left side, there is a navigation menu with links to Home, Simulations, New Sims, Physics, Motion, Sound & Waves, Work, Energy & Power, Heat & Thermo, Quantum Phenomena, Light & Radiation, Electricity, Magnets & Circuits, Biology, Chemistry, Earth Science, Math, Cutting Edge Research, By Grade Level, All Sims, Translated Sims, For Teachers, Stay Connected, How to Run Simulations, Troubleshooting, FAQs, and For Translators. The main area displays a grid of simulation thumbnails with labels: Alpha Decay, Balloons & Buoyancy, Balloons and Static Electricity, Band Structure, Battery-Resistor Circuit, Battery Voltage, Bending Light, Beta Decay, and Blackbody Spectrum. On the right side, there are social media links for Facebook, Twitter, YouTube, and others. The bottom of the screen shows a Windows taskbar with various icons and the system clock.

LOUVRE

Napoleon Hall  
April 21 - July 18, 2011

LOUVRE

Sign in to my personal space



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Museum

Collection

Exhibitions

Auditorium

Activities

Eye-Openers

Visit

Français

日本語

中文



Home - Museum - Virtual Tours

## Virtual Tours

### Overview

#### Virtual Tours

- ▶ Near Eastern Antiquities
- ▶ Egyptian Antiquities
- ▶ Greek, Etruscan, and Roman Antiquities
- ▶ Islamic Art
- ▶ Sculptures
- ▶ Decorative Arts
- ▶ Paintings
- ▶ Prints and Drawings
- ▶ Architectural Views
- ▶ Medieval Louvre

#### History of the Louvre

- ▶ Gardens & Tuileries
- ▶ Books, DVDs & CD-ROMs
- ▶ About the Louvre
- ▶ Tenders & Contracts



My Personal Space ▶

Donate Online ▶

Professionals ▶

Teachers ▶

Families ▶

Under-30s ▶

Support the Louvre ▶



### Another Way to Visit the Louvre....

Visit the museum's exhibition rooms and galleries, contemplate the façades of the Louvre....Come along on a virtual tour and enjoy the view, thanks to the sponsorship of Shiseido.

A QuickTime plug-in is required (version 5 or later).

### Medieval Louvre and Architectural Views



© Musée du Louvre

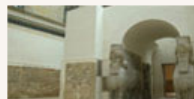
Medieval Louvre



© Musée du Louvre

Architectural Views

### Curatorial Departments



### Highlights

Cour Khorsabad

▶ View

The New Kingdom:  
Tutankhamun and his  
Successors

▶ View

The Venus de Milo Gallery

▶ View

The Mamluks

▶ View

# Virtual Tour of the Louvre

[www.louvre.fr/llv/commun/home.jsp?bmLocale=en](http://www.louvre.fr/llv/commun/home.jsp?bmLocale=en)




Virtual Tour of Oxford

www.chem.ox.ac.uk/oxfordtour/

# Virtual Tour of Oxford

Sheldonian Theatre (Encaenia 2005)  
panorama captured date 06/22/2005 (ID#=824)  
press buttons or mouse down to move in 360 degrees, press maximize for full screen



Map Satellite Terrain

## Virtual Tour of Oxford

This visually stunning resource uses interactive web pages which allow you to explore and manipulate 360 degree photographic panoramas of the city and university.

It is constructed from hundreds of high quality photographs of Oxford. Highlighted in the Sunday Times Jan 2004


For the full experience press on the symbol in the small panorama window

### Latest News

- Work is in progress to move nearly 3000 panoramas into the new design (currently # 763 added).

[Panorama Tutorials](#) Read the photography tutorial blog about how this panoramas are captured and created

The Oxford Eye  
([www.oxfordeye.com](http://www.oxfordeye.com))  
an exhibition of large limited edition prints



ICEL 2011 slides Jun... ICEL presentation J... Virtual Tour of Oxf...

EN 11:04 AM

Virtual Tour of Oxford  
[www.chem.ox.ac.uk/oxfordtour/](http://www.chem.ox.ac.uk/oxfordtour/)



# Virtual Large Mosques

Sites in 3D

Country: All ▼

City: All ▼

?

Türkçe | عربي | English

All

Egypt

France

Holland

Kuwait

Morocco

Saudi Arabia

Space

Syria

Turkey

Yemen

Palace

Museum

Inn

Bath

Castle

Tower

House

Square

Park

Nature

Religious

Other



AL-HARAM - Kaaba



AL-MADINAH - Prophet's Mosque



DAMASCUS - Umayyad Mosque



CAIRO - Mosque of Amr ibn al-As



asjid al-Quba



CAIRO - Al-Azhar Mosque



BURSA - Great Mosque



EDIRNE - Selimiye Mosque



ISTANBUL - Blue Mosque



CASABLANCA - Hassan II Mosque



CAIRO - Mosque of Ibn Tulun



SANA'A - al-Saleh Mosque



ISTANBUL - Suleymaniye Mosque



ISTANBUL - Fatih Mosque



ISTANBUL - Yeni Mosque



ISTANBUL - Sehzadebasi Mosque

Large

Historic

New

www.3dmekanlar.com/en/3d-baths.html

360\_MEDINE\_Mescid....exe  
1.2/4.6 MB, 1 min left

360\_MEDINE\_Mescid....exe  
Opening in 15 secs...

Show all downloads...

- Digital storytelling

<http://www.storycenter.org/>


- Concept mapping

[http://en.wikipedia.org/wiki/List\\_of\\_concept-\\_and\\_mind-mapping\\_software](http://en.wikipedia.org/wiki/List_of_concept-_and_mind-mapping_software)

## Other Artifacts to Create

← → http://www.storycenter.org/ Center for Digital Storytelling... x

File Edit View Favorites Tools Help




**CENTER**  
for DIGITAL  
**STORY**  
TELLING

We surface authentic voices around the world through group process and participatory media creation.

Our programs support people in sharing and bearing witness to stories that lead to learning, action, and positive change.

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### What's New

View our **Spring 2012 Quarterly Newsletter**



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50% off in April and May  
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### Upcoming Workshop Highlights

EN 9:40 PM 14/04/2012

# Digital Storytelling



# Concept Mapping

[http://users.edte.utwente.nl/lanzing/cm\\_home.htm](http://users.edte.utwente.nl/lanzing/cm_home.htm)

← → http://users.edte.utwente.nl/lanzing/cm\_home.htm Concept Mapping Homepa... x

File Edit View Favorites Tools Help

★ MoodleEdD eBay Customize Links Suggested Sites Get more Add-ons Yahoo! Mail

## An example Concept Map

Here is an example of a concept map. In this example the nodes are labeled, the links are also labeled and uni-directional.

```
graph LR
    SN[SAINT NICOLAS] -- "celebrated by" --> D[DUTCH]
    SN -- "has" --> B[BEARD]
    SN -- "rides" --> WH[WHITE HORSE]
    SN -- "is" --> S[SAINT]
    SN -- "lives in" --> SP[SPAIN]
    SN -- "helper of" --> BP[BLACK PETER]
    SN -- "gives" --> P[PRESENTS]
    SN -- "has" --> BO[BOOK]
    SN -- "definitely ain't the same as" --> SC[SANTA CLAUS]
    SN -- "celebrated by" --> BIRTHDAY[BIRTHDAY]
    SN -- "don't live on" --> POLES[POLES]
    SN -- "lives at" --> NP[NORTH POLE]
    SN -- "contains" --> CI[CLASSIFIED INTELLIGENCE ON KIDS' BEHAVIOUR]
    BP -- "listens" --> AC[AT CHIMNEYS]
    BP -- "climbs" --> OR[ON ROOFS]
    BP -- "is" --> BL[BLACK]
    BP -- "brings" --> GK[GOOD KIDS]
    BP -- "punishes" --> BK[BAD KIDS]
    P -- "to" --> GK
    GK -- "of" --> CI
    BK -- "of" --> CI
```

This one was made using CMap on the Macintosh.

## Concept Mapping links

EN 12:09 AM 03/04/2012

## Handheld game machines

<http://mediadesign.sfu.ca/portfolio/?link=28>

## Biofeedback

<http://mediadesign.sfu.ca/portfolio/?link=27>

## Mobile devices (e.g., smartphone, iPod)

[www.youtube.com/watch?v=w7bsOdbhZWI&feature=related](http://www.youtube.com/watch?v=w7bsOdbhZWI&feature=related)

# Some New Technologies



k4140422 www.fotosearch.com



# The 21<sup>st</sup> Century Teacher



# **There are MANY possibilities for enhancing student engagement and learning**

Podcasts, vodcasts, webquests, wikis, blogs, online surveys, online books and journals, synchronous chats, asynchronous discussions, e-portfolios, expert videos, digital storytelling, concept mapping, virtual field trips, tours, animations, debates, online games, simulations, moviemaking, role play, PBL, cases, .....on and on.....

Teachers need to  
figure out how to  
apply these learning-  
centered methods  
effectively and  
efficiently

# THERE ARE **MANY** ONLINE RESOURCES FOR TEACHERS



YouTube - How to Upload A Video to YouTube - Windows Internet Explorer

http://www.youtube.com/watch?v=9w-gQAws2uc&feature=related

Google


YouTube - How to Upload A Video to YouTube

YouTube

Search Browse Upload Create Account Sign In

## How to Upload A Video to YouTube

BEFORE & AFTER TV 115 videos Subscribe



Upload a Video to YouTube

From: BeforeAndAfterTV  
Added: October 08, 2008  
(more info)

Upload A video to Youtube

youtube.com/watch?v=jbJHt

width="425" height="344">

Options  
insight  
AudioSwap Captions

BeforeAndAfterTV

0:05 / 1:58

360p

PROTECT YOUR BUSINESS

Online backup starting at less than \$5 per month. Learn More

mozy BY DECHO

Suggestions

How to Upload a Video to YouTube NEWEST VERSION  
by BeforeAndAfterTV  
701,104 views

How to Dress if You have Large Breasts

Internet | Protected Mode: On

125%

EN

11:26 PM

[www.youtube.com/watch?v=9w-gQAws2uc&feature=related](http://www.youtube.com/watch?v=9w-gQAws2uc&feature=related)

# Podcasting Software

<http://podcast-software-review.toptenreviews.com/>

Browser window showing the website <http://podcast-software-review.toptenreviews.com/>.

Navigation bar: File Edit View Favorites Tools Help

Search bar: MoodleEd eBay Customize Links Suggested Sites Get more Add-ons Yahoo! Mail

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## 2012 Best Podcast Software Comparisons and Reviews

Rank	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Stars	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Reviewer Comments	Excellent	Very Good	Good	Fair	Poor					
Software	<a href="#">Propaganda</a>	<a href="#">ePodcast Producer</a>	<a href="#">WebPod Studio</a>	<a href="#">Podcast Studio</a>	<a href="#">Audacity</a>	<a href="#">Hipcast</a>	<a href="#">PodProducer</a>	<a href="#">Evoca</a>	<a href="#">Podcast Wizard</a>	<a href="#">WildVoice Studio</a>
Read Review	<a href="#">Read Review</a>	<a href="#">Read Review</a>	<a href="#">Read Review</a>	<a href="#">Read Review</a>	<a href="#">Read Review</a>	<a href="#">Read Review</a>	<a href="#">Read Review</a>	<a href="#">Read Review</a>	<a href="#">Read Review</a>	<a href="#">Read Review</a>
Overall Rating	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Ratings										
Content Capture	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Editing Features	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Publishing Options	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Ease of Use	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Help & Support	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★

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Airfares Just Dropped. Book Your Flight Now & Save Up to 47%. Hurry!

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AtTask Software Ensures Project Management Success—Learn How

[Top 10 Keyloggers of 2012](#)  
Side by side comparison of the best keylogger programs available!

[SKYACTIV Technology:](#)  
Affordability, Performance, & Efficient: Standard From Mazda

Address bar: <http://podcast-software-review.toptenreviews.com/propaganda-review.html>

Taskbar: EN 11:23 PM 02/04/2012

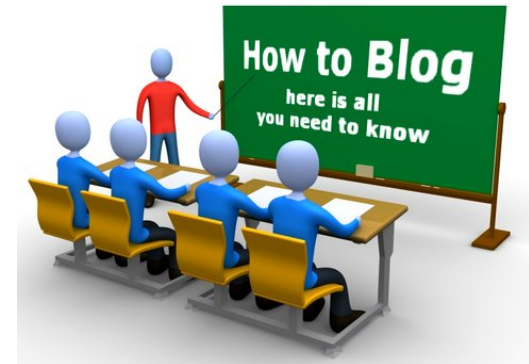


# SFU

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THINKING OF THE WORLD

[www.blogger.com](http://www.blogger.com)

<http://wordpress.com/>



Useful WebQuest Resource WordPress.com — Get a Free Blog Here — Google Chrome

← → ↻ 🏠 🌐 [wordpress.com](http://wordpress.com) ☆ ⚙️

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WordPress.com is also available in [Français](#).

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**Freshly Pressed:**

The best of **373,999** bloggers,  
**381,621** new posts, **310,356**  
comments, & **80,257,379** words  
posted today on WordPress.com.

**The Words of my Father**  
Whip Smart

[Posts about humor →](#)

**Coney Island Rocks!**

**Play ball!**  
20 Prospect

[Posts about baseball →](#)

**Ten Ways to Say "Thank you, Dad"**  
Planet Mom

[Posts about parenting →](#)

**Photos from Ardenwood Farm**  
A Happy Day

[Posts about photography →](#)

**Surprise! It's a...**  
Colour Her (Hope)

[Posts about life →](#)

**You are lying to yourself. You won't remember.**  
My Simple Inspiration

**My Dad Has No Rhythm, Yet Is Master Of The Dance**  
Ramblings

WordPress.com — Get a Free Blog Here — Google Chrome

EN < > 10:50 PM



Wiki Resources / Participatory Media Literacy

https://www.socialtext.net/medialiteracy/wiki\_resources

Socialtext

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Public Workspace: Participatory Media Literacy | What's New | Blogs

57 Revisions | Print | Tools

## Wiki Resources

▼ HIDE

### Wikis

- [Wikimatrix](#), extensive comparative list of wikis
- [Wiki Engines](#), another extensive list, for sysadmins or anyone who can tinker with server-side software
- [WikiIndex](#), a wiki of wiki, wiki people and wiki ideas
- [Wikipedia's list of wikis](#)
- [Wikipedia's comparison of wiki software](#)
- [Google Sites](#) Google's free wiki
- [PBwiki](#), a free wiki service.
- [Wetpaint](#), a free wiki service
- [List of open-source wiki software applications](#)
- [A comparison of wiki software](#)
- [Media Wiki](#)
- [PMWiki](#)
- [Barewiki](#)
- [Moinmoin](#)
- [Socialtext Enterprise Wiki](#)
- [PhpWiki](#)
- [Swiki/CoWeb](#)
- [WikiWiki](#)
- [TikiWiki](#)
- [Seedwiki](#)
- [Editthis.info](#)
- [Wikidot](#)
- [Zabwiki](#)

Kaufman et al JECR Dec 1 2010 [Compatibility Mode] - Microsoft Word non-comm

1CEL 2011 slides Jun... | 1CEL presentation J... | Kaufman et al JECR ... | Wiki Resources / Par...

EN 10:16 AM

# Social Resources

[https://www.socialtext.net/medialiteracy/wiki\\_resources](https://www.socialtext.net/medialiteracy/wiki_resources)

# **EMPOWERING ONLINE LEARNING: 100+ Activities for Reading, Reflecting, Displaying, and Doing**

Curtis J. Bonk  
Ke Zhang

2008

Jossey-Bass

A Wiley Imprint

[www.josseybass.com](http://www.josseybass.com)

- Berk, R. (2009). Teaching strategies for the net generation. *Transformative Dialogues: Teaching & Learning Journal*. 3(2), Nov., 2009: 1-24.
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- Kaufman, D. M., & Mann, K.V. (2007). *Teaching and learning in medical education: How theory can inform practice* (2<sup>nd</sup> ed.) [Monograph]. London, England: Association for the Study of Medical Education (ASME).

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## References