

# The New Normal: Teaching Outside the Box

Richard Culatta - Creative Learning Solutions



“In the past, you had to memorize knowledge because there was a cost to finding it. Now, what can’t you find in 30 seconds or less? We live an open-book-test life that requires a completely different skill set.”

- Mark Cuban







# The New Normal and Teaching

*Recognizing the existence of the "new normal" concept helps us to avoid becoming complacent in our teaching styles and methods.*



Modified Instructor Role  
Increased Interactivity  
Increased Mobility

# Modified Instructor Role

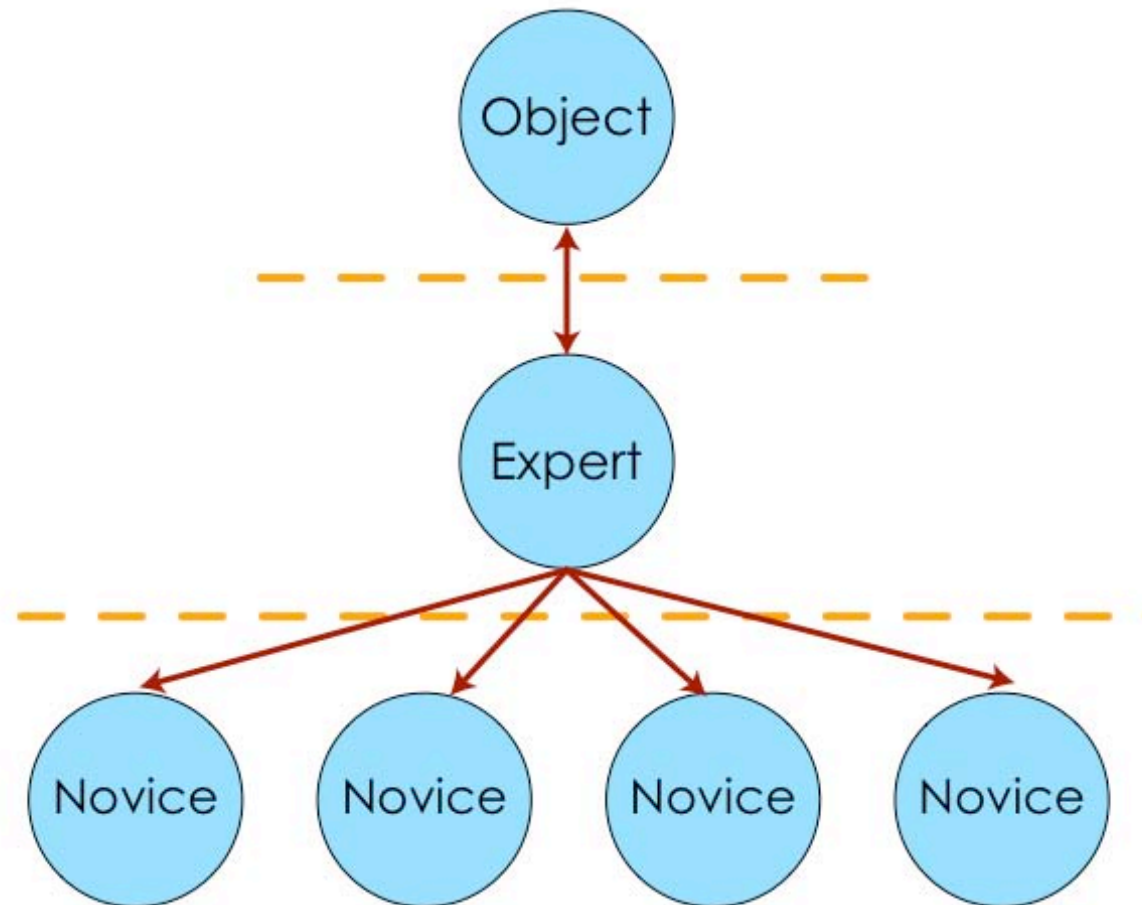
Dispenser of Facts



Creator of a Learning Community

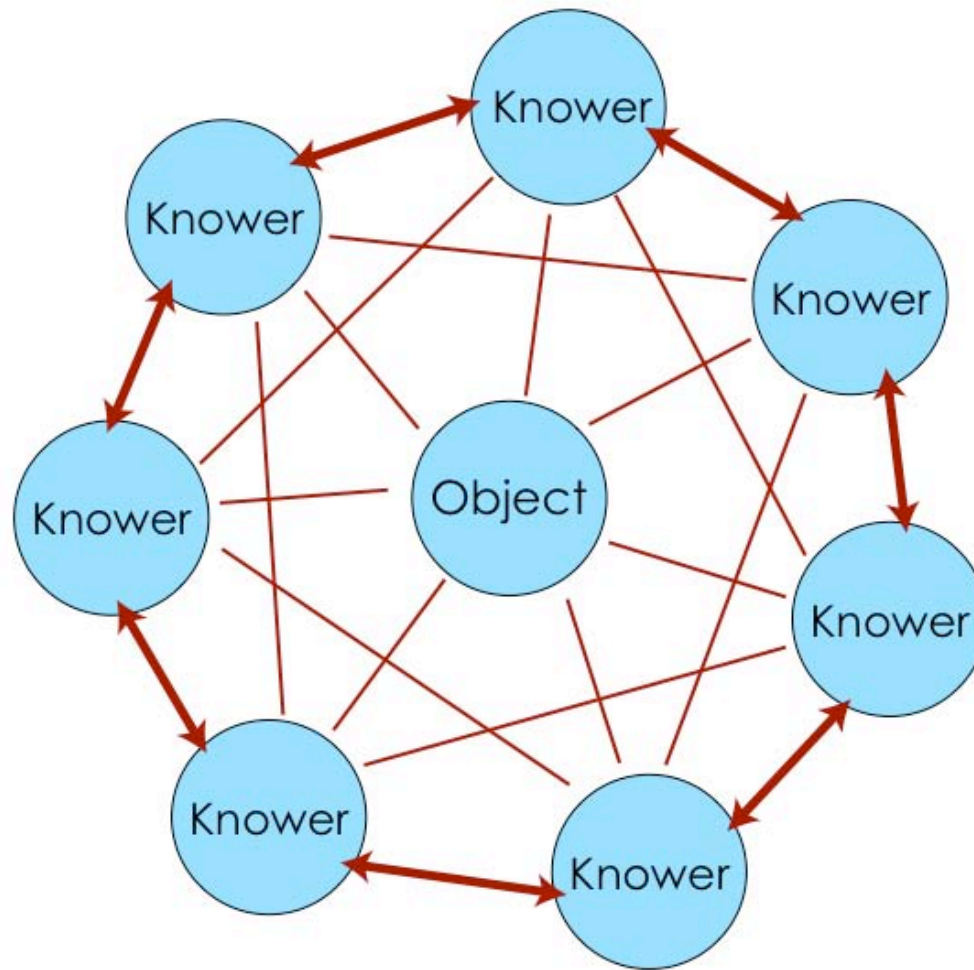


# Traditional Teaching Paradigm





# New Teaching Paradigm



# Guide to Learning Objects

Major Challenge: Keeping on top of all of the learning materials that are available

# Guide to Learning Objects

Major Challenge: Keeping on top of all of the learning materials that are available

The screenshot shows a web browser window with the URL <http://www.bloglines.com/myblogs>. The page title is "Bloglines | My Feeds (862) (121)". The browser's address bar shows "http://www.bloglines.com/myblogs". The page content includes a navigation menu with "My Feeds", "My Blog", and "Clippings". A list of feeds is displayed on the left, including "EdTechTalk - Educational Technology That Talks... - Educational Technology That T" (32 items), "The Edu-Blogger (0) (11)", "The Google Weblog (0) (2)", "GUUUUI - The interaction designers coffee break (23) (32)", "iterating toward openness (32)", "John Battelle's Searchblog (16) (6)", "IdsWebguy (10)", "MacNN | The Macintosh News Network (34) (15)", "Official Google Blog (200)", and "Paul Allen (the lesser) (125) (4)". The main content area shows the selected feed "EdTechTalk - Educational Technology That Talks... - Educational Technology That T" with 133 subscribers and a description: "Facilitating discussions on all matters related to Educational Technology". The feed is currently empty, showing "0 Items | Updated: Thu, Aug 3 2006 9:09 PM". A "Display" button is visible, and a hotkey legend is provided at the bottom of the feed area.

Hotkeys: j - next article k - previous article m - collapse/expand left pane s - next sub  
f - next folder A - read all n - toggle keep new o - open article O - open article in background  
r - refresh left pane

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# Respects Attention Economy

"...in an information-rich world, the wealth of information means a dearth of something else: a scarcity of whatever it is that information consumes.

What information consumes is rather obvious: it consumes the attention of its recipients.

Hence a wealth of information creates a poverty of attention and a need to allocate that attention efficiently among the overabundance of information sources that might consume it."

- Herbert Simon, 1971



Modified Instructor Role  
**Increased Interactivity**  
Increased Mobility

# Increased interactivity

Passive Users/Learners



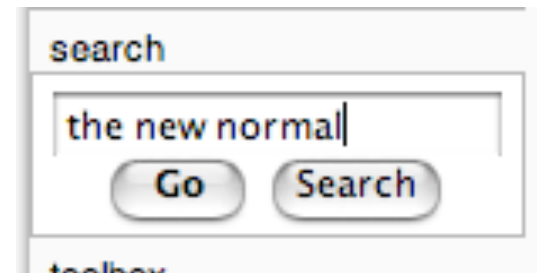
Active Users/Learners

- User to publisher connection
- TV
- Web 1.0

- User to user connection
- Interactive Media
- Web 2.0

# Course Materials

- All materials should be customizable
- All materials should be searchable
- All materials should be annotatable



# Increased interactivity

- Course materials are created by *both* students and instructors
- Student feedback drives course content

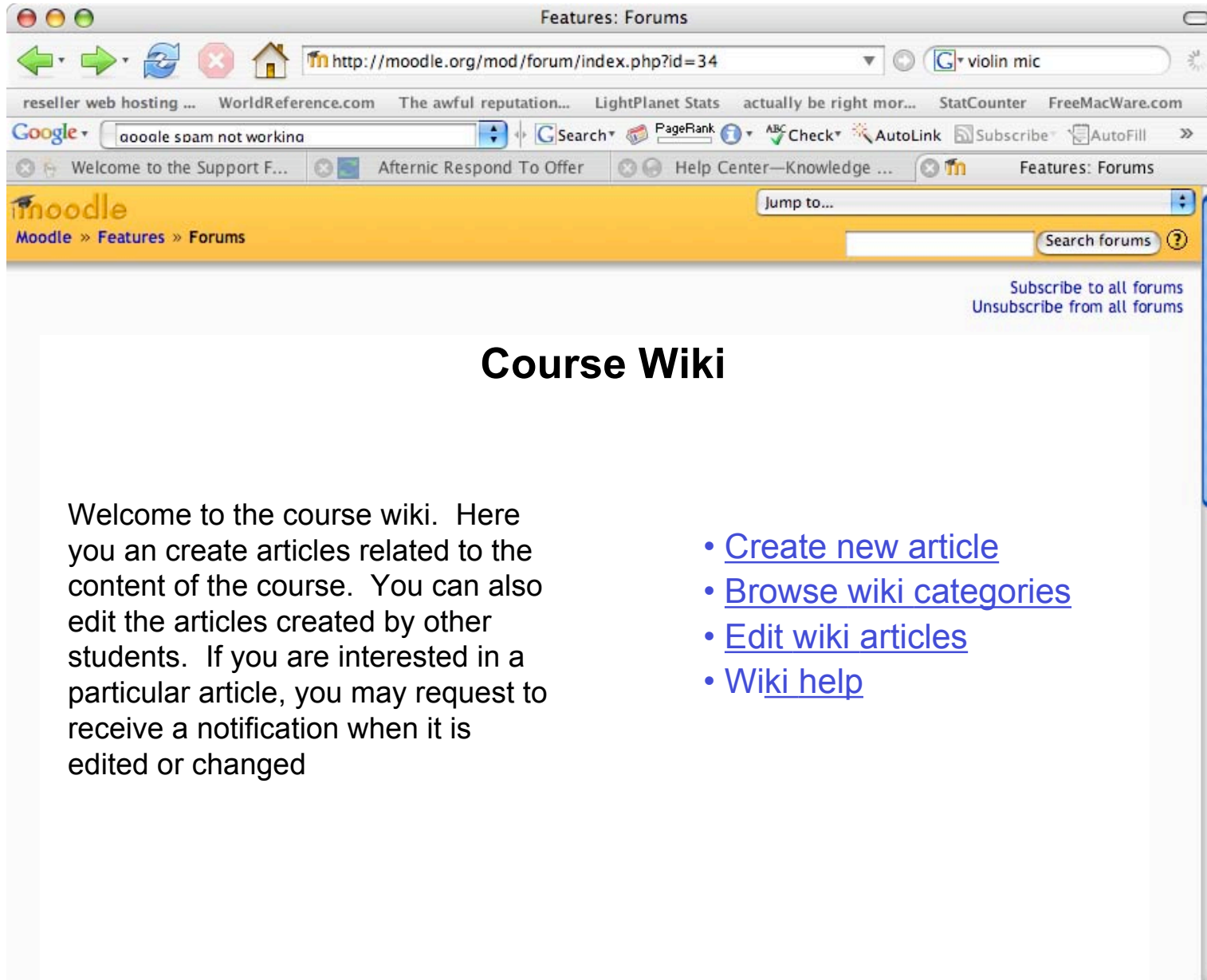


# Increased interactivity

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# Moodle: Course Wiki



The screenshot shows a web browser window with the URL `http://moodle.org/mod/forum/index.php?id=34`. The browser's address bar and search bar are visible. The page content includes the Moodle logo, a breadcrumb trail "Moodle » Features » Forums", and a search bar. The main heading is "Course Wiki". Below the heading, there is a welcome message and a list of links for creating, browsing, editing, and getting help with the wiki.

Welcome to the course wiki. Here you can create articles related to the content of the course. You can also edit the articles created by other students. If you are interested in a particular article, you may request to receive a notification when it is edited or changed

- [Create new article](#)
- [Browse wiki categories](#)
- [Edit wiki articles](#)
- [Wiki help](#)

# Moodle: Discussion Forums

The screenshot shows a web browser window displaying the Moodle forum interface. The browser's address bar shows the URL `http://moodle.org/mod/forum/index.php?id=34`. The page title is "Features: Forums". The Moodle logo and navigation links are visible at the top. Below the navigation, there are links to "Subscribe to all forums" and "Unsubscribe from all forums".

## General forums

Forum	Description	Discussions	Subscribed	RSS
<a href="#">Demo Course Discussion</a>	This forum is for the discussion of improvements to this course.  It is not a place to experiment with posting. Please use the other forums in forums section of this course.	24	No	
<a href="#">News forum</a>	This forum is for general news and announcements.  It is an example of a "No discussions, no replies" forum.	1	No	

## Learning forums

Forum	Description	Discussions	Subscribed	RSS
5 <a href="#">A Standard forum for</a>	This is a standard forum without	111	No	<a href="#">RSS</a>

# Moodle: Discussion Forums

Features: Demo Course Discussion

http://moodle.org/mod/forum/view.php?f=662

reseller web hosting ... WorldReference.com The awful reputation... LightPlanet Stats actually be right mor... StatCounter FreeMacWare.com

Google aooale spam not working

Welcome to the Support F... Aternic Respond To Offer Help Center—Knowledge ... Features: Demo Course Di...

moodle

Moodle » Features » Forums » Demo Course Discussion

Jump to... Search forums

Everyone can choose to be subscribed  
Subscribe to this forum

This forum is for the discussion of improvements to this course.  
It is not a place to experiment with posting. Please use the other forums in forums section of this course.

Add a new discussion topic

Discussion	Started by	Replies	Last post
Listening Quiz: Howto	Mike velez	0	Mike velez Tue, 1 Aug 2006, 10:55 PM
Windows Media Video not showing in FireFox	Joseph Rézeau	0	Joseph Rézeau Thu, 20 Jul 2006, 04:44 AM
Should this forum be on the Forum List?	chris collman	2	chris collman Mon, 17 Jul 2006, 09:28 PM
Should FRSHS use Moodle in its courses?	Roger Crider	0	Roger Crider Thu, 13 Jul 2006, 12:33 AM
Whiteboard features	Nathalie Vu-Van-Toan	4	chris collman Fri, 30 Jun 2006, 10:26 PM
Workshop	Wissam Nahas	2	Matt Gibson Fri, 23 Jun 2006, 12:02 AM
How could this course be improved?	Darren Smith	14	Darren Smith Wed, 14 Jun 2006, 04:07 PM
Unable to restore Features Demo course to my moodle	Eddie McLafferty	0	Eddie McLafferty

# We're hiring Why sayers

People who want to make things better. Make things more fun. More clever. People who aren't restricted by convention, but challenged by it. People who fit perfectly at Ikea. Because it's the why that makes us successful. Just give us a call and submit a voice application. We'll be in touch with you as soon as possible.

The Ikea logo, consisting of the word "IKEA" in a bold, yellow, sans-serif font, with a registered trademark symbol (®) to the upper right of the letter "A".

Call (866) 831-8611 or visit [www.IKEA.com](http://www.IKEA.com).

# Encouraging Inquiry

*A typical student asks .17 question per hour  
in a conventional classroom*

*and*

*27 questions per hour in one-on-one interactions.*

# Gaming and Simulations

- Games and Simulations support:
  - Active learning
  - Experiential learning
  - Problem-based learning
  - Immediate feedback
  - Learner-centered learning
- Gaming environments include:
  - Problem-solving in complex systems
  - Creative expression
  - Social relationships
  - Peer assessment



# America's Army









# Mass Casualty Incident Response

Features of the game include:

- Models that can be easily adapted for use in many different incidents reflecting local needs
- Exercises that require real-time decision-making under stressful conditions
- Multi-player mode, allowing first responders to practice working together
- Engaging and challenging scenarios that utilize the appeal and attraction of video games

# Mass Casualty Incident Response

**Header Data:**

	00:45	13:21 PM		77.3	58
ACTION	ELAPSED TIME	CURRENT TIME	WIND	TEMP	HUMIDITY
Tx / Rx					

**Scene:** Scene - Main lobby facing South. Elevators behind you.

**log**

- 10:22 Am - Arrived on Scene
- 10:24 Am - Entered Building Main Entrance
- ...

**Actions Panel**

faslayout.psd

← 1024 Pixels →

← 768 Pixels →



Modified Instructor Role  
Increased Interactivity  
Increased Mobility

## Increased Mobility

- More than one quarter of all Americans use portable devices that enable them to go online to surf the Web or check email. (PEW, 2004)
- 2/3 of students carry a portable media device (Kaiser Family Foundation)
- 15% of students between the ages of 8 and 18 have their own handheld internet device (Kaiser Family Foundation)



# Increased Mobility

- The learning experience should not be confined by physical location (students should be able to learn whenever and wherever)
- The learning experience should not be confined by the dates of a course



# Augmented Reality

Students should be able to learn whenever and wherever is most effective for the topic being taught.



# Agilix: Mobile Learning

Backpack.bb - Blackboard Backpack

File Edit View Insert Format Tools Window Help

Trebuchet MS 12 91%

Calendar People **Biology 101** Oceanography Naval Engineering Financial Accounting Notes

Monday, July 11, 2005 | Oceanography | People | **Biology 101**

Biology 101

Description: An introductory botany course for non-science majors

Quick View

- Calendar
- Tasks
- Announcements
- Staff Information
- Course Information
- Course Documents**
- Assignments
- External Links

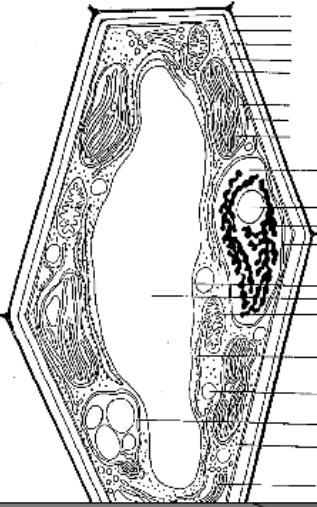
Detail View

New Group

Be prepared to label for mid-terms

which is all the living parts of the cell. The large structure inside the protoplasm is the **nucleus**, which is surrounded by a double membrane full of pores or openings. Inside the nucleus are roughly spherically shaped bodies called **nucleoli**. Also present in the nucleus are the **chromosomes**, the information carriers of the cell.

Everything **outside** the nucleus is the **cytoplasm**. As this swirling mass of living matter passes around us, we see many bodies of various sizes. These are the **organelles**. One class of these organelles appear green and they are the **chloroplasts**, the site of photosynthesis. Some appear white and these are the **amyloplasts** filled with starch. We must also be careful of fast moving smaller bodies called **mitochondria**. They are the site of respiration that releases energy to the cell. All the reactions found in the chloroplasts and mitochondria are carried out by **enzymes**. These are special protein



1 2 3 4 5 6

# Thoughts

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