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Design of learning activities based on Web 2.0 tools













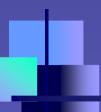


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Social software in education /1

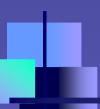
- Social software can be used for self-publishing, management of online media collections, collaboration, electronic portfolios etc.
 - Wikis, weblogs, social bookmarking
 - Inovation in education
 - Instructional design (learning activities)
 - Personalized learning environments
 - Collaboration, peer-to-peer learning, socializing
 - More cognitive, social and teaching presence of the learners



Social software in education /2

- Frequently used social software tools for online education (Mejias, 2006):
 - Blogs (personal web publishing)
 - Wikis (collaborative content management systems)
 - Distributed classification systems (classification of items by associating them with keywords/tags)
 - Rich site summary (RSS) feeds (subscription system that alerts the user when new content is available on a web publishing resource)

Mejias, U. (2006). Teaching Social Software with Social Software. *Innovate: Journal of Online Education*, 2(5)



Web 2.0

- Web 2.0 is a broad and evolving term describing new trends in using the web, with an emphasis on interconectivity, interactivity, and userproduced content
- Software [as a] Service
 - Online word processors (http://www.writely.com)
- Use of Collective Intelligence
 - Amazon (other shoppers activity patterns are used to advertise things you might like)
 - Wikipedia, Edupedia
 - Google search ranks based on how many other sites link to that page
 - Social bookmarking (http://del.icio.us) shared, tagged bookmarks
- Everyone as Publisher ("Read-Write Web")
 - Blogs, wikis, Flickr (photos), eVite (invitations), Podcasts
- Aggregation & Tagging (solves the problem of information overload)
 - RSS aggregators, del.icio.us

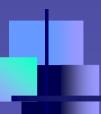


E-learning 2.0

 Various inovative approaches related to the use of Web 2.0 tools for online learning

	E-learning 1.0	E-learning 2.0		
Components	Courseware, LMSs	are, LMSs Wikis, blogs		
Ownership & information flow	Predominantly top-down	Bottom-up, collaboration, learner-driven, peer learning		
Development time	Long	Rapid/none		
Content size	~ 60 minutes	1-15 minutes		
Delivery	According to schedule	When you need it		
Content access	LMS	Search, RSS feed		
Content creator	Lesson author	User(s)		

Karrer, T. (). Understanding E-Learning 2.0. Learning Circuits.



Web 2.0 tools /1

- Diverse tools for online publishing, content creation and cooperation
 - Photo management and sharing: Flickr, Zoto
 - Social bookmarking: del.icio.us, Ma.gnolia
 - Audio/video sharing: Odeo, YouTube, Google Video
 - Communication: MySpace, Facebook, YackPack & Chingswing (audioconferencing), Yaplet (chatroom on webpage)
 - Brainstorming and collaboration: Bubble.us (mental maps), Thinkature
 & Imagination Cubed (interactive whiteboard), NoteMesh (note exchange), FunAdvice (questions and advice)
 - Creative learning: JotForm (online form design), LettrPop (newsletters, invitations), Bubblr (comic strips), Mojiti (video editing), SlideStory (PPT+voice)

Orehovački, T., Konecki, M., Radošević, D. (2007). Alati za e-obrazovanje 2.0. *CARNet Users Conference - CUC 2007*.



Online learning activities /1

Pedagogical activities for online learning

(E)LEARNING STRATEGIES



Learning technologies



E-TIVITIES

- Audio & video recordings
- E-mail
- LMS
- Weblog
- Wiki
- Web site

"... educational activities designed by e-moderators which include individual contributions and responding to the contributions of other learners in various CMC environments."

(Salmon, 2002)

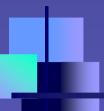
Kovačić, A., Bubaš, G., Zlatović, M., Balaban, I. (2008). Designing e-learning activities with a wiki for students of English as a foreign language. "New Learning Cultures", Electronic Proceedings of the EDEN 2008 Annual Conference, Lisbon, Portugal.



Online learning activities /1

Examples of e-tivities and suitable Web 2.0 tools

- Learner Pre-Questions Collaboration: <u>FunAdvice</u> (questions and advice)
- Cite model / Interviewing Audio/video sharing: <u>Odeo</u>, <u>YouTube</u>, <u>Google Video</u>
- Anecdote Creative learning: <u>Bubblr</u> (comic strips), Mojiti (video editing)
- Identify a problem Communication: Yaplet (chatroom on webpage)
- Examples/Non-examples Video sharing: YouTube, Google Video
- Group/individual inquiry Social bookmarking: del.icio.us, Ma.gnolia
- Project Creative learning: <u>JotForm</u> (online form design), <u>SlideStory</u> (PPT+voice)
- Group/individual feedback Communication: MySpace
- Graphic organizers Brainstorming and collaboration: <u>Bubble.us</u> (mental maps),
 <u>Thinkature & Imagination Cubed</u> (interactive whiteboard)
- "For" and "against" dialogues Communication: YackPack & Chingswing (audioconferencing), Yaplet (chatroom on webpage)
- Reflection Creative learning: <u>LettrPop</u> (newsletters), <u>SlideStory</u> (PPT+voice)
- Questions for assessment Creative learning: <u>JotForm</u> (online form design)



A case of blended learning /1

The blended learning environment

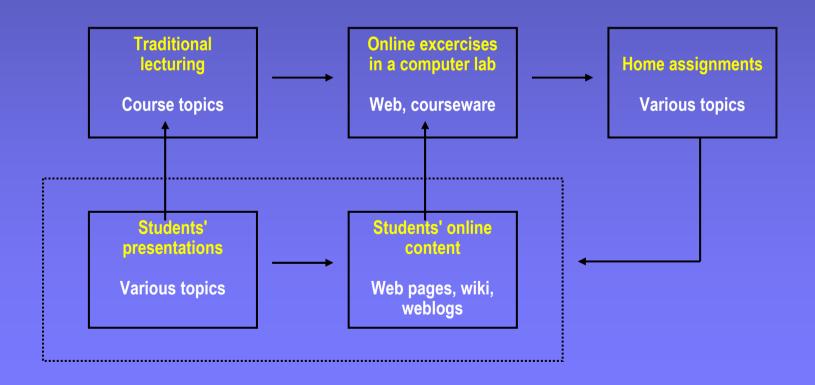


Bubaš, G., Kermek, D. (2007). Courseware tools and social software in a hybrid university course: A case study with an evaluation of the online components. *Proceedings of the International Technology, Education and Development Conference - INTED2007*, Valencia, Spain.



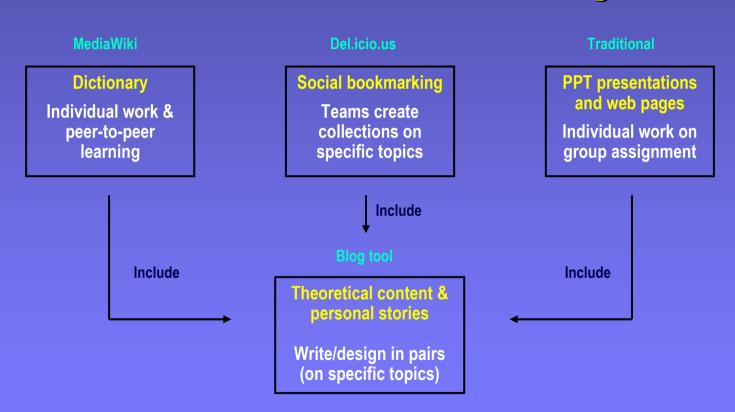
A case of blended learning /2

Common sequence of offline and online activities



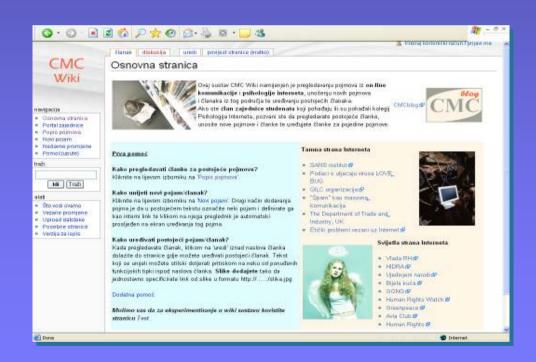


Use of Web 2.0 tools for online learning activities



Wiki in a blended learning course /1

Students work individualy to create their own dictionary of online communication and psychology of internet use — results of collective effort: descriptions of 240 terms in 4 weeks



Wiki in a blended learning course /2

Functions/results of e-tivities with a wiki system

Personal web publishing	Development of vocabulary and concepts	Peer-to-peer learning	
Self-organizing activities	WIKI	Collaboration	
Sense of responsibility	Orientation toward public interest	Empowerment	

Blog tool in a blended learning course /1

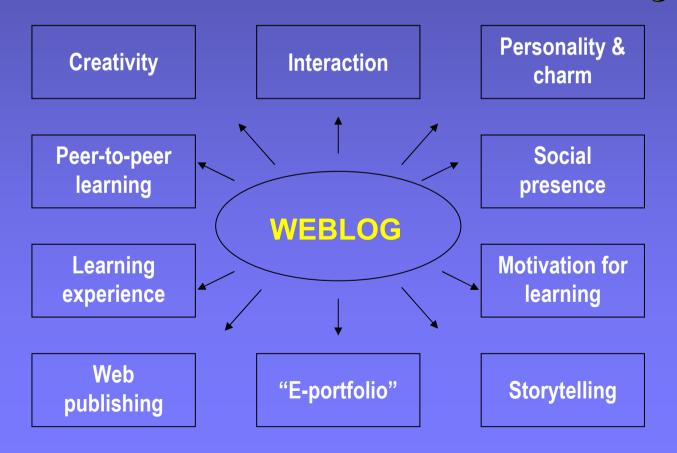
Students work in a team to create a blog with educational content and their experiences on a specific topic. They work on visual design and link external web pages of team members and terms in the wiki dictionary of the course.

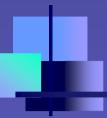




Blog tool in a blended learning course /2

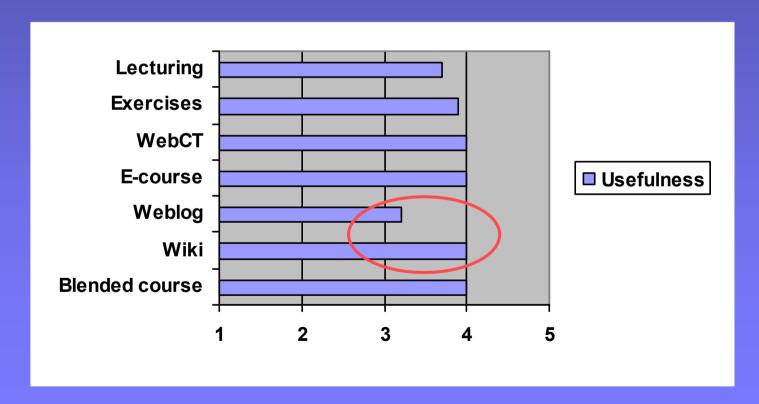
Functions/results of e-tivities with a weblog





Evaluation of online tools /1

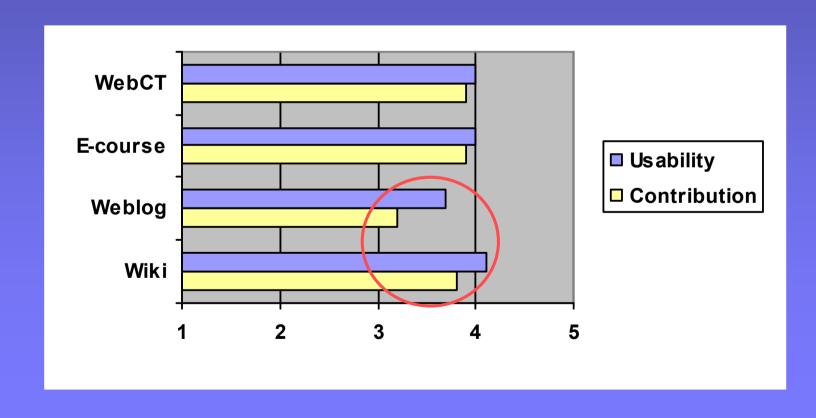
Usefulness of online tools (1 -very bad; 5 - very good)





Evaluation of online tools /2

Usability and contribution to the blended learning course (1 -very bad; 5 - very good)





→ Goals

- Research into experimental use of a wiki for EFL/ESP.
- New and more motivating out-of class activities complementing the basic course
- Variety, personalization, individualization of teaching and learning

Challenges

- Changing role of the teacher / students
- Greater responsibility and preparation
- ICT support and competence
- A broader view of what education should/could be

Kovačić, A., Bubaš, G., Zlatović, M., Balaban, I. (2008). Designing e-learning activities with a wiki for students of English as a foreign language. "New Learning Cultures", Electronic Proceedings of the EDEN 2008 Annual Conference, Lisbon, Portugal.



The *Engwiki* homepage



- · Hoin Page
- · Community portal
- . Current events
- s Recent changes
- w. Random page
- · Decations

apamh



toolbox

- w. What links hare
- · Related changes a Special pages
- Printable version or Decreased Int.

article discussion view source history

Main Page

Početna stranica na hnatskom jeziku - Engwiki projekt

Students are welcome to add their comments to Engwiki articles and activities. IMPORTANT - comments should strictly be posted on discussion pages of corresponding articles (see 'Discussion' link at the top of each page)

A definition and taxonomy of e-tivities conducted in the academic year 2006/2007 and 2007/2008

Welcome to Engwild - the elearning facility that enables you to browse, create, edit and link articles related to the course English for Information Technology I - Engleski jezik I (2006/2007, 2007/2008) and Business English III - Posiovni engleski ezik II (2006/2007, 2007/2008) at the Faculty of Organization and informatics in Varadum 6. The list of e-testigatinstructions for Positovin jezik II can be viewed here.



The limits of my language are the limits of my world. All I know is what I have words for. Ludeig Wittgenstein

Find lots of insightful quotes iff on language, learning, science and Me , including those by Einstein, Gardner, McLuhan, Groucho Marx, W.C. Fields and many more.

A Log in / create account

NEW! Warmly recommended articles on using Wikipedia, wikipediation and wiki slang submitted by our students.

Go to All pages if to view the content. Go to Help if see how to create a new page or edit an existing page.

IMPORTANT: You are only entitled to submit texts you have written yourself, or copied from a public domain or a similar free resource — with a link to its source. DO NOT SUBMIT COPYRIGHTED WORK WITHOUT PERMISSION!



Papers on Engwiki presented at conferences in Croatia and abroad:

- ★ ICT for Language Learning, Florence 2007 #
- Symposium on e-learning, FOI Varazión 2007 (in Croatian) dP



ou are welcome to use the Merriam-Webster Online Dictionary and Thesaurus & or the PC Webopedia &



Engwiki e-tivities

- wiki-based learning activities
- intended for collaborative language learning

Taxonomy of e-tivities

<u>Extensive:</u>
 (free) input and output,
 content and non-linguistic challenge

Intensive:

(controlled) input and output, insisting on accuracy; less open-ended

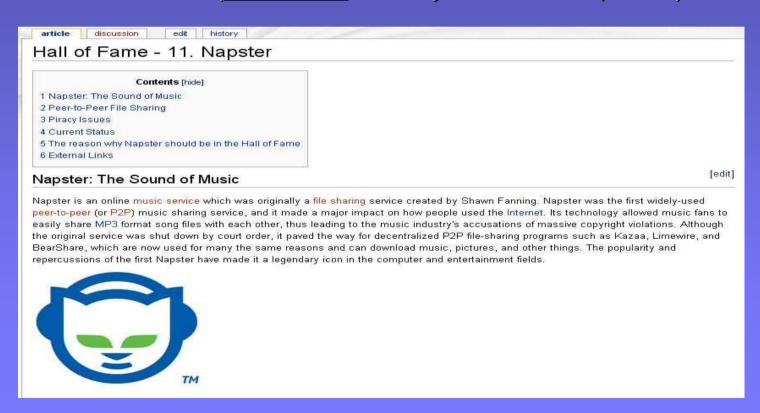


Example 1 of an e-tivitiy for *Engwiki*

Content-based wiki article (theme "E-book")

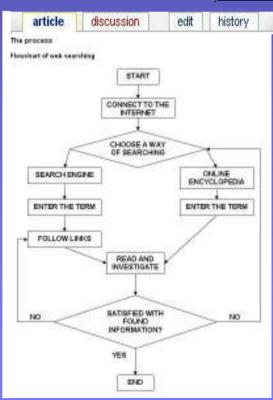


- Example 2 of an e-tivitiy for Engwiki
 - Hall of fame (extensive activity; theme "Napster")



Example 3 of an e-tivitiy for *Engwiki*

Flowchart (intensive activity; theme "Web search")



Interpretation of the flowchart

Step 1

How to search the web for information?

First of all we need an Internet service provider (ISP) and some hardware to connect to the Internet. What is ISP? An ISP provides access to the Internet. You sign up for an account with an ISP just as you do for telephone service or utilities. What kind of Hardware do we need? For a broadband connection such as Digital Subscriber Line (DSL) or cable, you need a DSL or cable modern. This is usually included as part of the start-up hardware from your ISP when you sign up for a broadband account. For a dial-up connection, you need a dial-up modern. Many computers come with this type of modern already installed.

Step 2

When the Internet connection is established we have to choose a way of searching. We can either use a search engine (such as Yahoo!, Google, and Ask.com) or an online encyclopedia (such as Wikipedia) to find the required information.

Step 3 A

If we choose the search engine fist of all we have to enter the wanted term. But, what is actually a search engine? The term "search engine" is often used genetically to describe both crawler-based search engines and human-powered directories. These two types of search engines gather their listings in radically different ways. Crawler-based search engines, such as Google or Yahoo, create their listings automatically. They "crawl" or "spider" the web, then people search through what they have found. A human-powered directory, such as the Open Directory, depends on humans for its listings. You submit a short description to the directory for your entire site, or editors write one for sites they review. A search looks for matches only in the descriptions submitted.

Step 4 A



Evaluation of e-tivities

EXAMPLES OF PREDOMINANTLY EXTENSIVE (FREE) INPUT AND OUTPUT E-TIVITIES								
LAMINIFELS OF FREDOMINANTET EXTENSIVE (FREE) INFOT AND OUTPUT E-TIVITIES								
Collections of online resources								
Hotlist Media Scrapbook								
M _u =3.44 ; M _i =3.44 ; N=16		M _u =3.19 ; M _i =3.25 ; N=16						
, , , , , , , , , , , , , , , , , , , ,								
Quiz								
M _g =3.38 ; N=87								
Histories, biographies and analogies								
Paradoxes		Decades of the 20th Century		Hall of Fame				
M _u =2.88 ; M _i =3.00 ; N=	:56	Mu=3.02 ; Mi=	=3.06 ; N=98	M _g =3.35 ; N=79				
Narratives and role plays								
Storyboard (Complaints) Debate (Gl		, , , , , , , , , , , , , , , , , , , ,		lot) Your Cup of Tea?				
M _u =3.71 ; M _i =3.83 ; N:	=7	Mu=3.83 ; Mi=	=3.91 ; N=12 M _L		ı=2.74 ; M₁=3.11 ; N=47			
Opinion-based e-tivities								
Brainwriting		allenge	Chain Letter		Friend or Foe?			
M _u =3.82 ; M _i =4.05 ; N=11	M _u =2.66;	M _i =3.07 ; N=29	M _u =3.58 ; M _i =4.09 ; N=11		M _u =2.57 ; M _i =2.83 ; N=30			
Experience-based e-tivities								
Time capsule		My First Encounter With						
M _u =2.69 ; M _i =2.98 ; N=45			M _g =3.39 ; N=87					

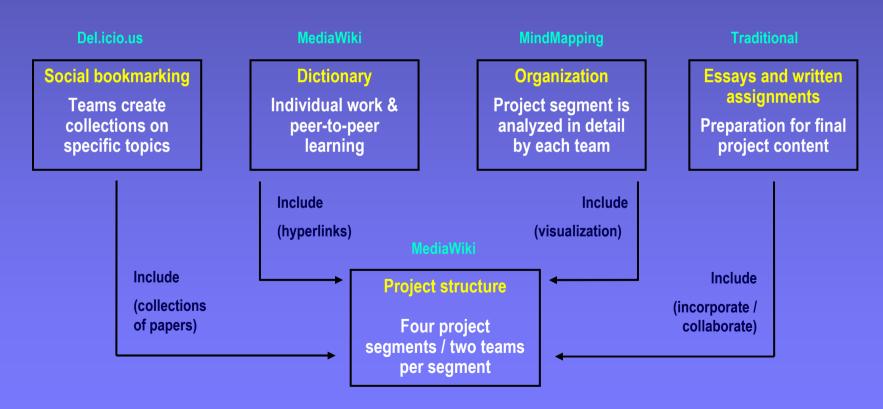
^{*} M_n - average rating of usefulness; M_l - average rating of interestingness; M_g - average rating of general aspects of e-tivity

** the rating for M_n, M_i and M_n was performed on a Likert-type scale ranging from 1-very poor to 5-very good



University CRM project /1

Project-oriented e-tivities for teams of students





Conclusion

- Wikis, blogs and social bookmarking tools can be used for the creation and implementation of useful and interesting online learning activities.
- Various Web 2.0 applications enable novel designs of online learning environments.
- Inovation in online education may be costly, but it is also rewarding and potentially very effective.