Mogućnosti komunikacije alata za e-obrazovanje s programskom okolinom – institucijskim repozitorijem, lokalnim CMS-om i aplikacijama Web2.0

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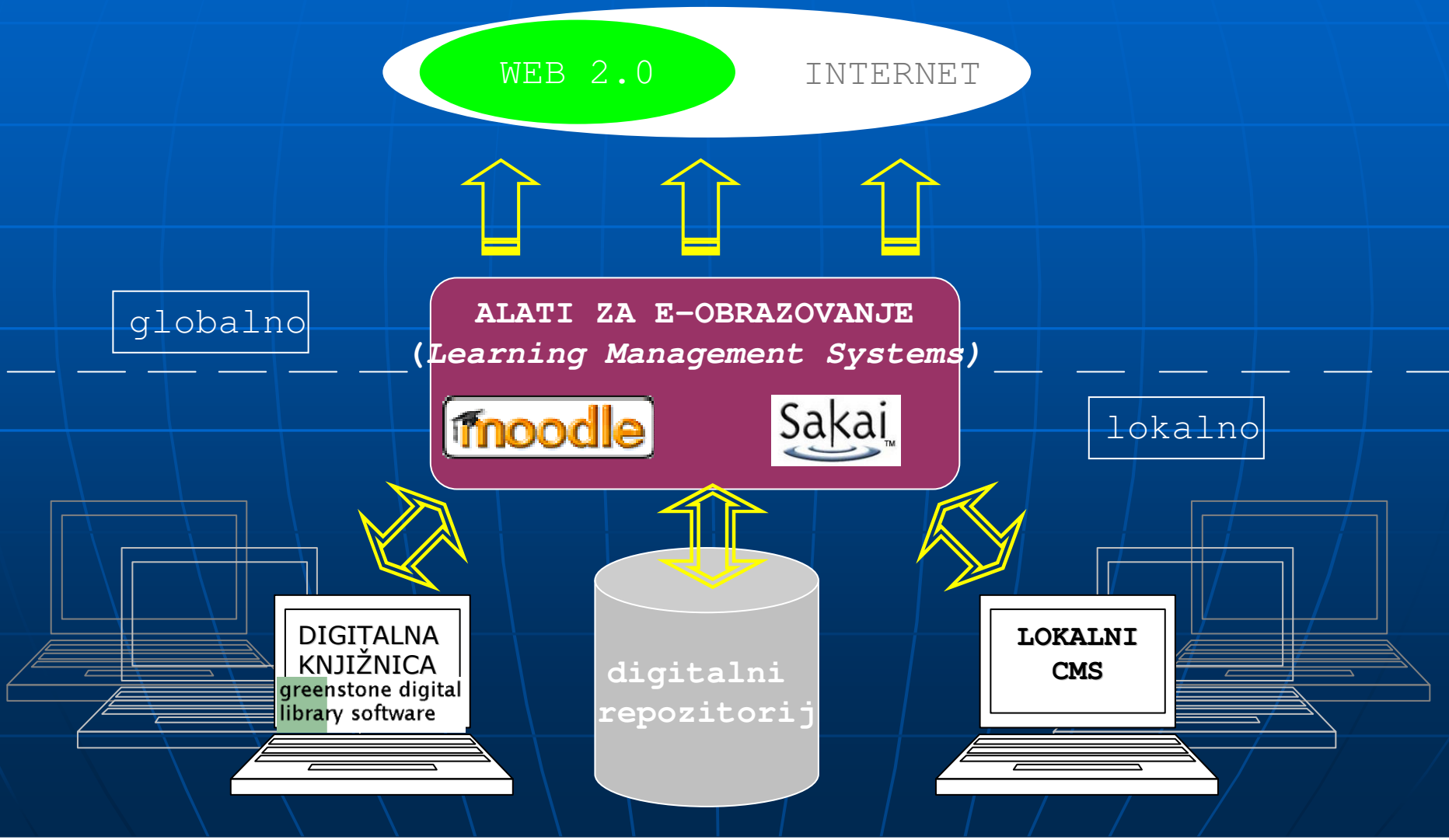
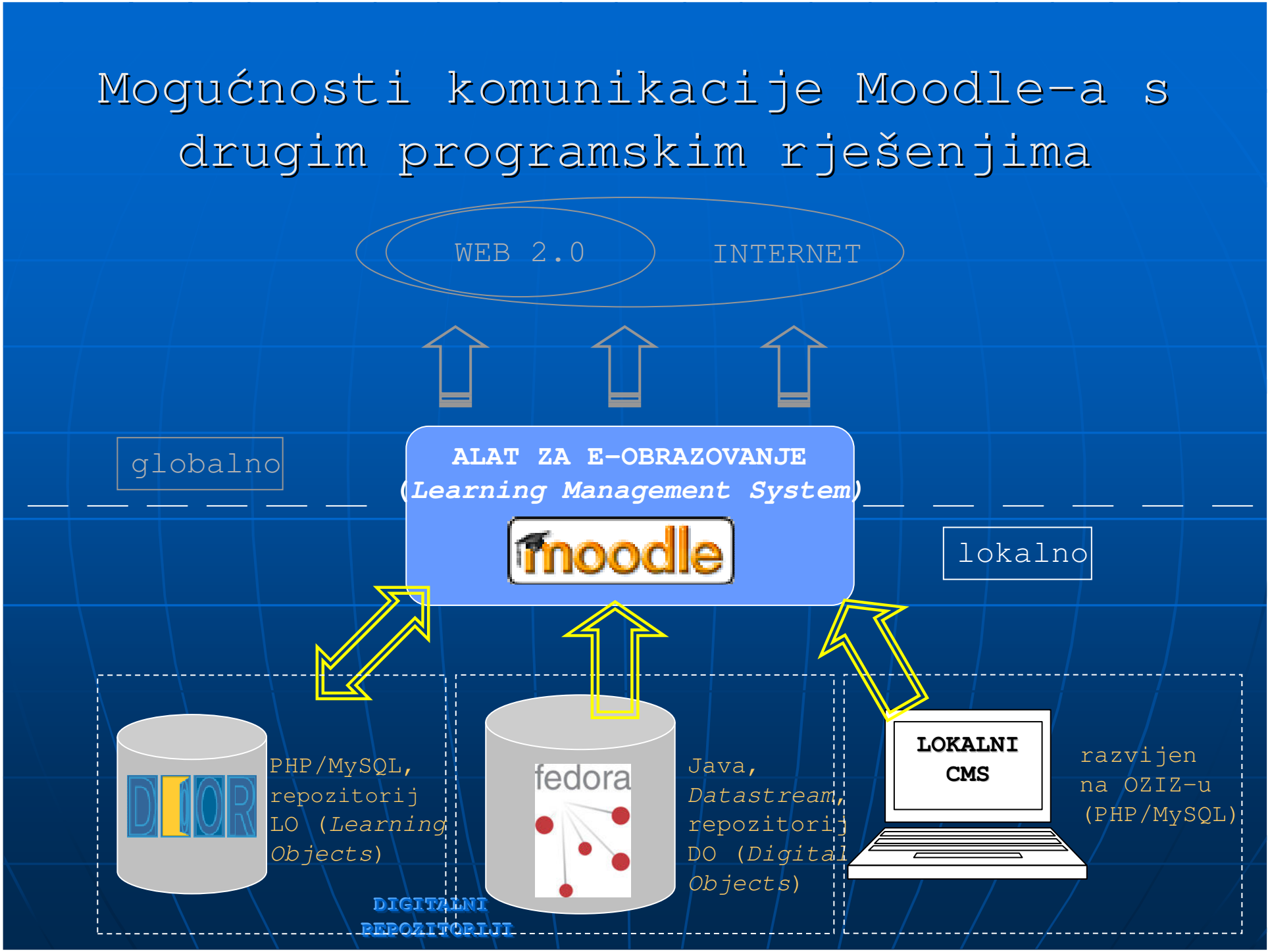
Mogućnosti komunikacije alata za e-obrazovanje u vlastitoj programskoj okolini



Moodle na OZIZ-u

- OZIZ (Odsjek za informacijske znanosti)
- ~ 350 korisnika, 90% kolegija svih godina
- trenutna verzija 1.7.2. (uskoro na 1.8)
- Većinom se koristi za:
  - Objavljivanje vijesti vezanih uz kolegij uz automatsko slanje istih na e-mail studenata
  - omogućen pristup nastavnim materijalima "na daljinu" (*alias* SUSTAVI UČENJA NA DALJINU)
  - zaprimanje studentskih zadaća (*Bologna*) i njihovo ocjenjivanje
- "Tu i tamo" koristi se:
  - Za kontrolu nazočnosti vježbama (blok *attendance*)
  - Brzo testiranje
  - Raspravište u okviru kolegija na teme kolegija itd.

Mogućnosti komunikacije Moodle-a s drugim programskim rješenjima

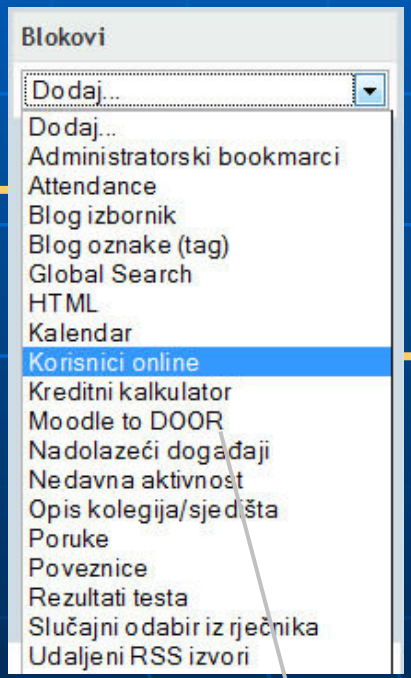


Mogućnosti komunikacije **Moodle**-a s drugim programskim rješenjima

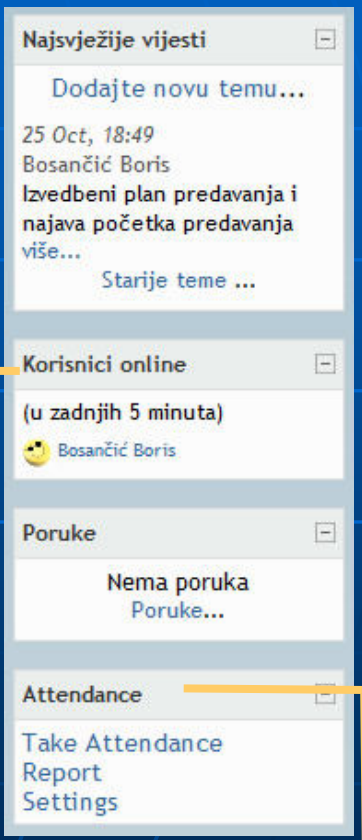
- Implementirane putem blokova i modula koji dolaze u obliku *plugina*
- **Modules and Plugins** – zasebna stranica na mrežnim stranicama Moodle-a s koje se mogu preuzeti softverski moduli s dodanom funkcionalnošću (blokovi, moduli, patchevi, razne integracije i sl.)
- Voditi računa o verziji programa koja podržava određeni modul ili *plugin*
- *Jednostavna instalacija plugina:* svodi se na kopiranje određenih direktorija i datoteka; nakon učitavanja administratorke stranice u Moodle-u sustav sam dovršava postupak instalacije

Blokovi u Moodle-u

- Blokovi su zasebne softverske jedinice kreirane s prvotnom namjerom da omoguće prikaz pohranjenih informacija unutar sustava prema određenom kriteriju (Nedavna aktivnost, Nadolazeći događaji i sl.)
- Blokovi se koriste i za smještaj tražilica, statičnih stranica i sl.
- Na koncu, blokovi otvaraju i Moodle prema mrežnom okruženju... (Moodle to DOOR, Udaljeni RSS izvori)

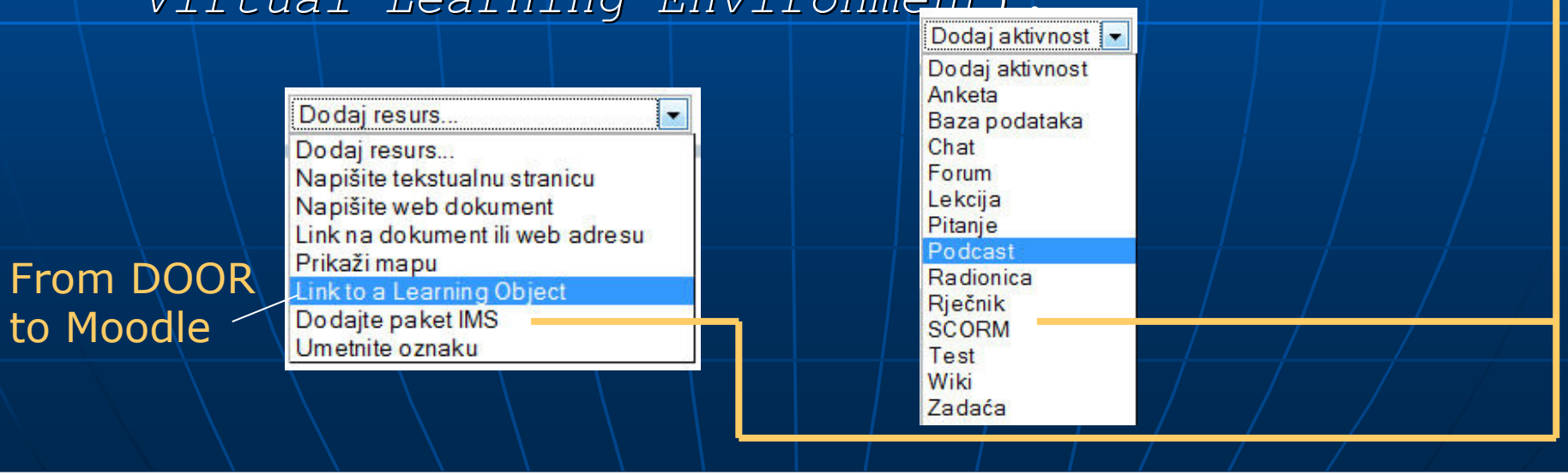


From Moodle to DOOR



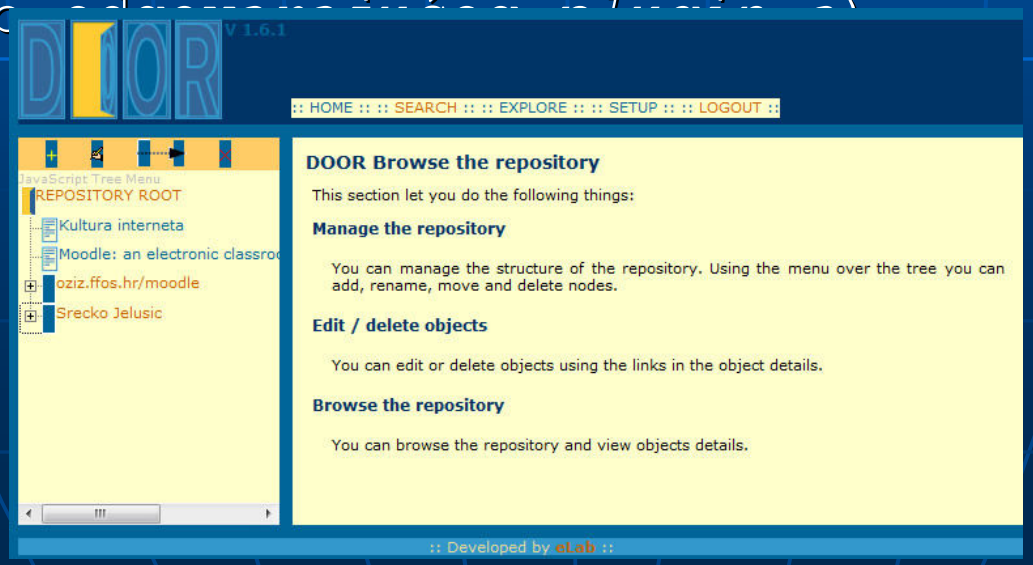
Moduli u Moodle-u

- Moduli su softverske jedinice zadužene za upravljanje sadržajima i aktivnostima unutar Moodle-a
- kroz zasebne module implementirana je podrška za uvoz standardiziranih paketa sadržaja (*SCORM, IMS*) što predstavlja primjer interoperabilnosti sustava u *VLE* (engl. *Virtual Learning Environment*).



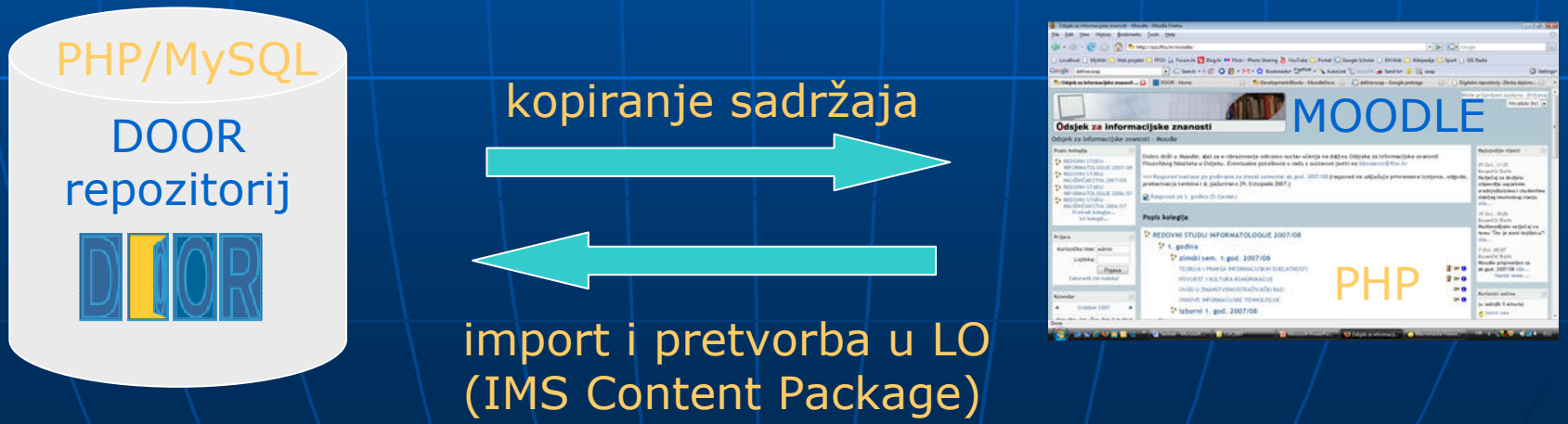
DOOR – digitalni repozitorij LO (*Learning Objects*)

- *Digital Open Object* ***Repository***
- *Open source* (*GPL*) programsko rješenje digitalnog repozitorija LO (*Learning Objects*)
- Pohranjuje sadržaj u obliku "sadržaj + metapodaci"
- Podržava međunarodne standarde metapodataka IMS *Metadata 1.2.1.* i *Content Package 1.3.1.*
- Integriran s Moodle-om !!!
  (preko [illegible])



Povezivanje Moodle-a s DOOR repozitorijem

- Postoje dva *plugina:*
  - *Iz DOOR-a u Moodle* (preko modula)
  - *Iz Moodle-a u DOOR* (preko zasebnog bloka)



Kreiranje vlastitih blokova u Moodle-u

- http://docs.moodle.org/en/Development:Blocks – mrežna stranica koja objašnjava kreiranje blokova u Moodle-u
- Nužno poznavanje PHP-a
- Mogućnost korištenja osnovnog predloška na osnovu kojeg se razvija vlastiti blok s vlastitom specifičnom funkcionalnošću
- Mogućnost odabira da li se blok želi ponavljati u istom kolegiju (npr. blok attendance za nazočnost vježbama i predavanju)

FEDORA digitalni repozitorij

- Ključna svojstva:
  - podrška za raznolike (heterogene) tipove podataka (text, slike, audio, video itd.)
  - sposobnost višestrukog prikaza ovih objekata
  - sposobnost pridruživanja prava na pristup na poj

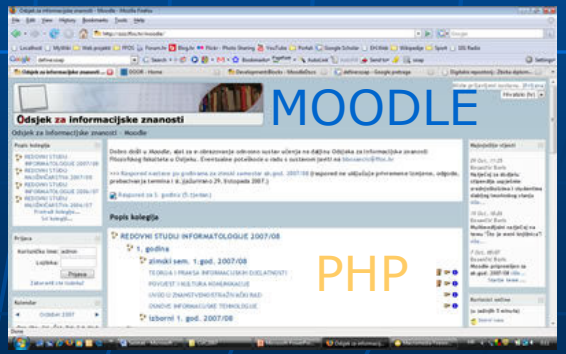
Povezivanje Moodle-a s FEDORA repozitorijem

- Komunikacija preko web servisa
- SOAP (*Simple Object Access Protocol*)
- SOAP ostvaruje komunikaciju između aplikacija, baziran je na XML-u

Kreiran vlastiti blok
koji upućuje PHP SOAP zahtjev

Web servisi

SOAP (XML, HTTP)



FEDORA odgovara generirajući rezultate u XML-u koji se ponovno mogu procesuirati u PHP-u i prikazati u okviru bloka

Povezivanje Moodle-a s lokalnim CMS-om

LOKALNI CMS:

- Platforma Apache/MySQL/PHP
- Informacije o nastavnicima (vlastite stranice, vrijeme konzultacija, kontaktni podaci i sl.)
- Ostale informacije s mrežnih stranica Odsjeka (obavijesti, satnice, informacije o studentima i sl.)

Povezivanje Moodle-a s lokalnim CMS-om preko zasebno kreiranog bloka:

Npr. BLOK naziva NASTAVNIK koji bi sadržavao:
- ime i prezime nastavnika s poveznicom na njenu/njegovu mrežnu stranicu u okviru stranica Odsjeka
- aktualno vrijeme konzultacija nastavnika

i sl.

E-learning sustavi

Uz Moodle postoji još nekoliko e-learning sustava koji nalaze svoje mjesto u obrazovnom procesu:

- Blackboard
- Sakai
- Qwaq
- Second Life (!) i sl.

Sakai

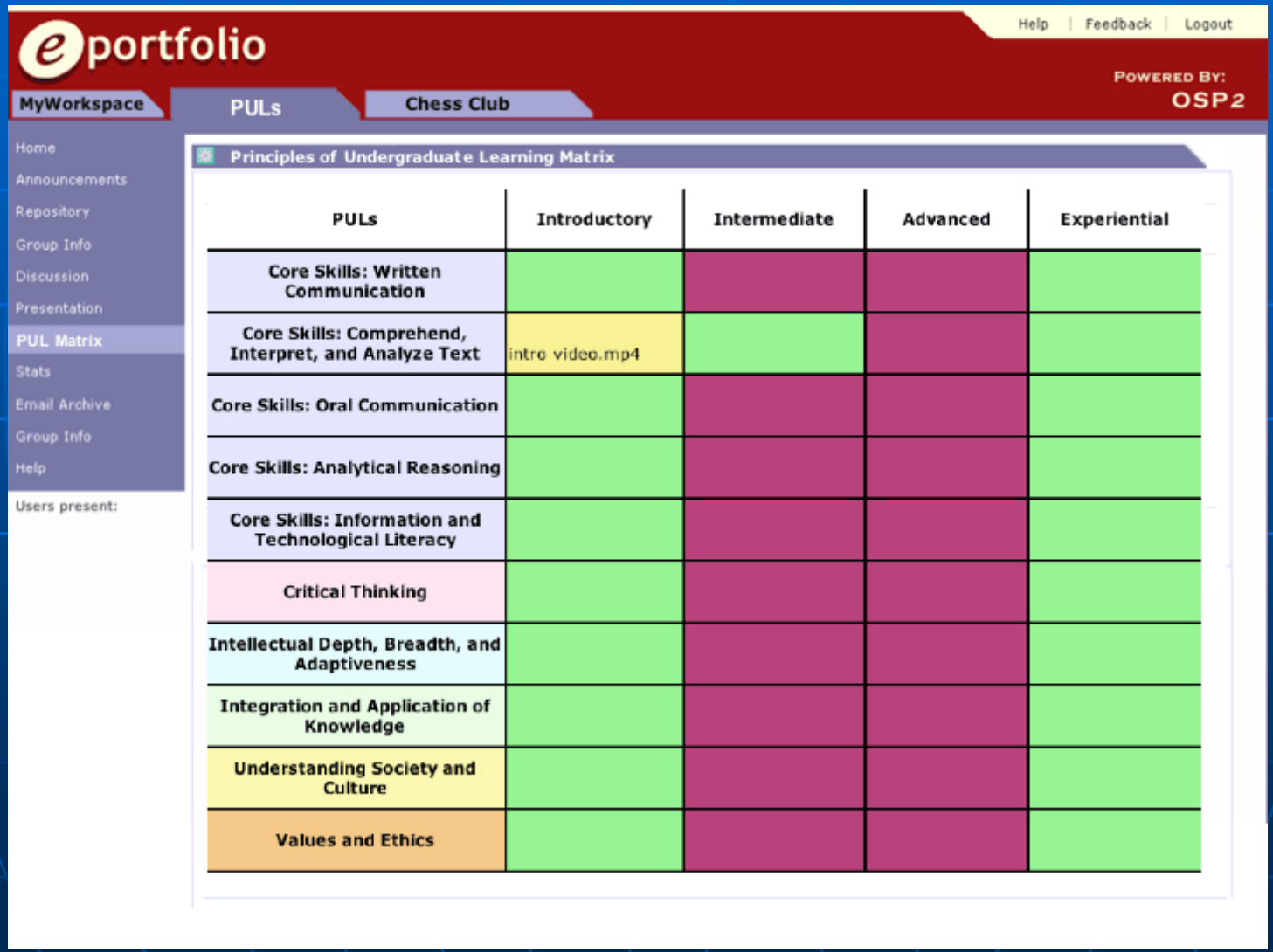
http://sakaiproject.org/index.php

- online sustav za suradnju i izgradnju obrazovnog okruženja
  - podučavanje, učenje, ad hoc grupna suradnja, znanstvena suradnja i dr.
- besplatan, open source alat
- servisno orijentirana arhitektura (service oriented architecture)
- Sakai Community

Alati

- **glavni alati (generic collaboration tools)**
  - Announcements, Drop Box, Email Archive, Resources, Chat Room, Forums, Threaded Discussion, Message Center, Message Of The Day, News/RSS, Preferences, Presentation, Profile / Roster, Repository Search, Schedule, Search, Web Content, WebDAV, Wiki, Site Setup
- **alati za podučavanje (teaching tools)**
  - Assignments, Grade book, Module Editor, QTI Authoring, QTI Assessment, Section Management, Syllabus
- **portfelj alati (portfolio tools)**
  - Forms, Evaluations, Glossary, Matrices, Layouts,

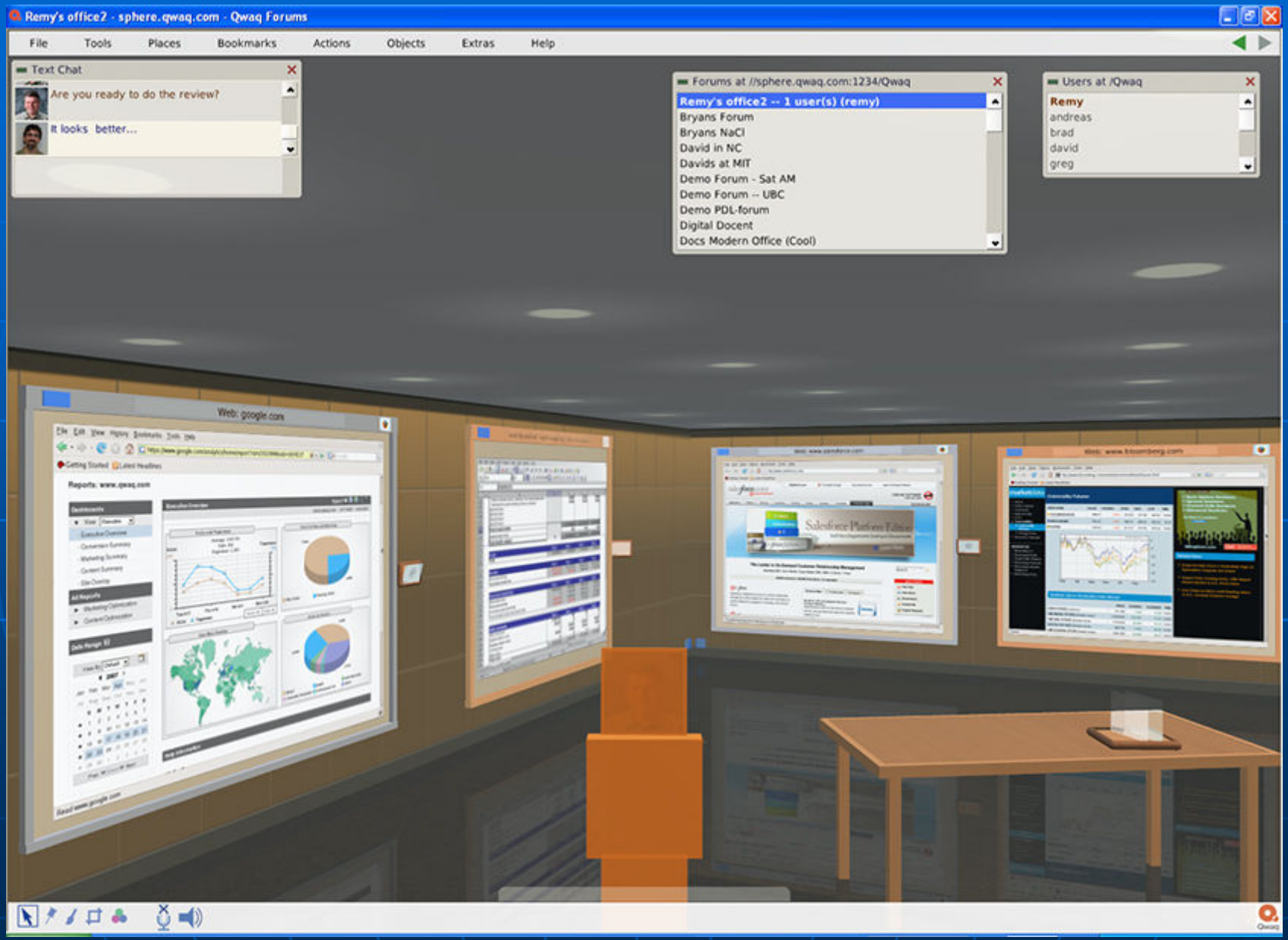
Indiana University – Open Source Portfolio Initiative (OSPI)



Qwaq

http://www.qwaq.com/

- kreiranje virtualnog prostora za tvrtke i profesionalne ustanove (virtualni uredi)
- Qwaq forumi
  - 3D okruženje
  - VoIP
  - tekst chat
  - multi-sharing
  - izmjene sadržaja unutar foruma (updates)
  - korištenje avatara
  - interaktivnost
  - manipuliranje sadržajem korištenjem *drag-and-drop* tehnike i dr.


Remy's office2 - sphere.qwaq.com - Qwaq Forums
File
Tools
Places
Bookmarks
Actions
Objects
Extras
Help
Text Chat
Are you ready to do the review?
It looks better...
Forums at //sphere.qwaq.com:1234/Qwaq
Remy's office2 -- 1 user(s) (remy)
Bryans Forum
Bryans NaCl
David in NC
Davids at MIT
Demo Forum - Sat AM
Demo Forum -- UBC
Demo PDL-forum
Digital Docent
Docs Modern Office (Cool)
Users at /Qwaq
Remy
andreas
brad
david
greg
Web: google.com

Tehnologije Web2.0

1960-e:

- J. C. R. Licklider – ideja o povezivanju računalnim mrežama i razvoju i primjeni jednostavnog korisničkog sučelja (povezivanje, širenje znanja, razvoj sposobnosti učenja)

Danas:

- u posljednjih nekoliko godina dio Web projekata i usluga izdvaja se kao posebno učinkovit (povezivanje, razmjena informacija i znanja) – "Social Software"

...

- mreža kao platforma (potpuna iskoristivost aplikacija kroz browser)
- korisnici kao vlasnici podataka i informacija
- korisnici vrednuju aplikaciju korištenjem iste
- interaktivno, bogato, *user-friendly* sučelje
- folksonomija
  - ~ social indexing
  - ~ social tagging
- *div* princip

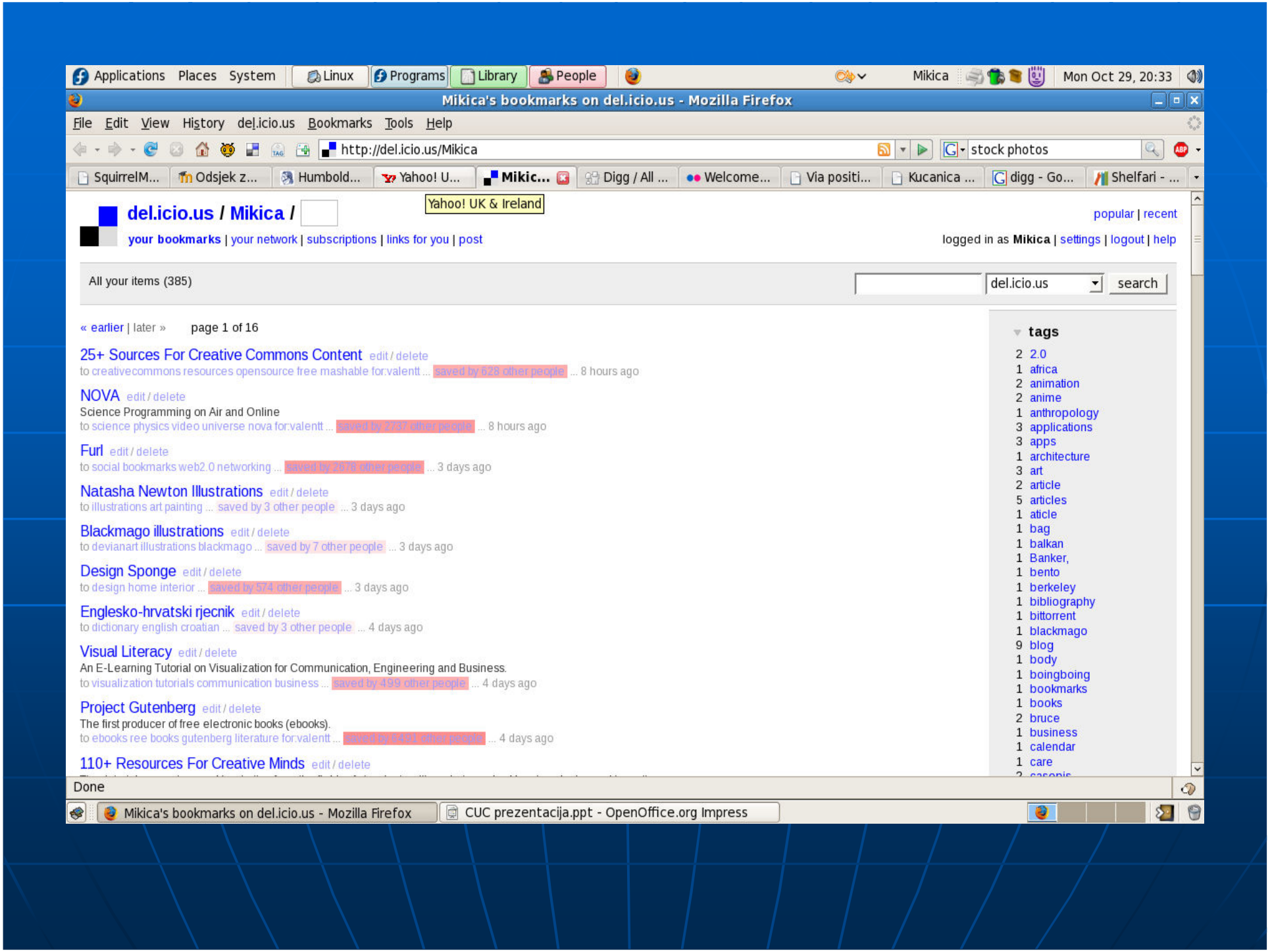
...

- blog
- videoblog
- Wiki
- podcast
- RSS feed
- social bookmarking and annotation
- social networks
- personalizirane stranice
- prijenosne aplikacije (!), itd.

del.icio.us

http://del.icio.us/

- social bookmarking
  - arhiviranje
  - sharing
  - pretraživanje
  - dostupnost
- Furl (http://www.furl.net)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People
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25+ Sources For Creative Commons Content edit / delete
to creativecommons resources opensource free mashable for:valentt ... saved by 628 other people ... 8 hours ago
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Science Programming on Air and Online
to science physics video universe nova for:valentt ... saved by 2737 other people ... 8 hours ago
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to social bookmarks web2.0 networking ... saved by 2676 other people ... 3 days ago
Natasha Newton Illustrations edit / delete
to illustrations art painting ... saved by 3 other people ... 3 days ago
Blackmago illustrations edit / delete
to devianart illustrations blackmago ... saved by 7 other people ... 3 days ago
Design Sponge edit / delete
to design home interior ... saved by 574 other people ... 3 days ago
Englesko-hrvatski rjecnik edit / delete
to dictionary english croatian ... saved by 3 other people ... 4 days ago
Visual Literacy edit / delete
An E-Learning Tutorial on Visualization for Communication, Engineering and Business.
to visualization tutorials communication business ... saved by 499 other people ... 4 days ago
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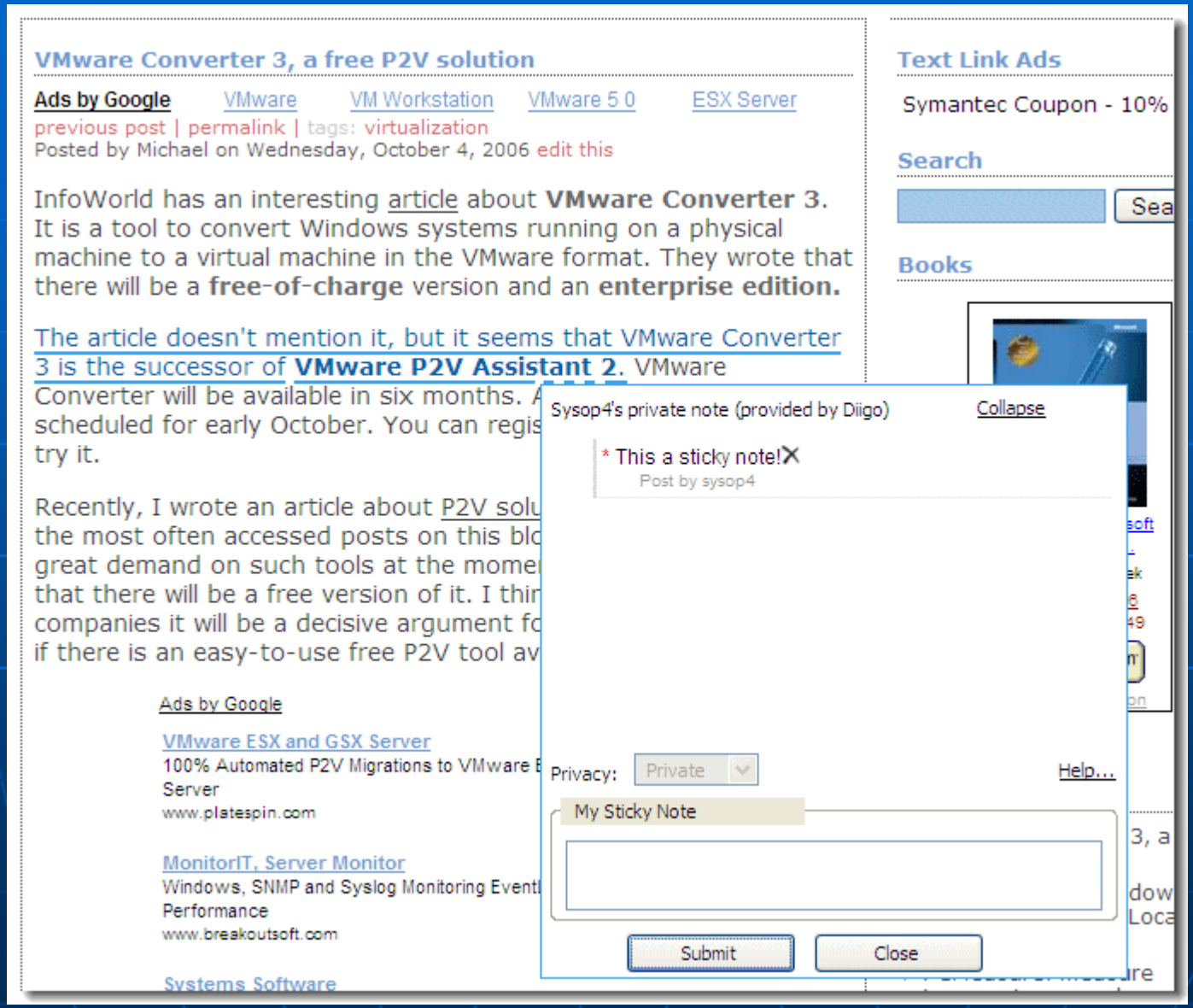
diigo

http://www.diigo.com/

- social annotation
- online sadržaji – arhiviranje, sharing, manipuliranje i interakcija (highlight, clip, sticky-note)
- instalacija diigo tool bar-a
- flash tutorial

  http://www.diigo.com/help/flash_tutorial


VMware Converter 3, a free P2V solution
Ads by Google
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VM Workstation
VMware 5 0
ESX Server
previous post | permalink | tags: virtualization
Posted by Michael on Wednesday, October 4, 2006 edit this
InfoWorld has an interesting article about VMware Converter 3. It is a tool to convert Windows systems running on a physical machine to a virtual machine in the VMware format. They wrote that there will be a free-of-charge version and an enterprise edition.
The article doesn't mention it, but it seems that VMware Converter 3 is the successor of VMware P2V Assistant 2. VMware
Converter will be available in six months.
scheduled for early October. You can regis
try it.
Recently, I wrote an article about P2V solu
the most often accessed posts on this blo
great demand on such tools at the mome
that there will be a free version of it. I thin
companies it will be a decisive argument fo
if there is an easy-to-use free P2V tool av
Ads by Google
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100% Automated P2V Migrations to VMware
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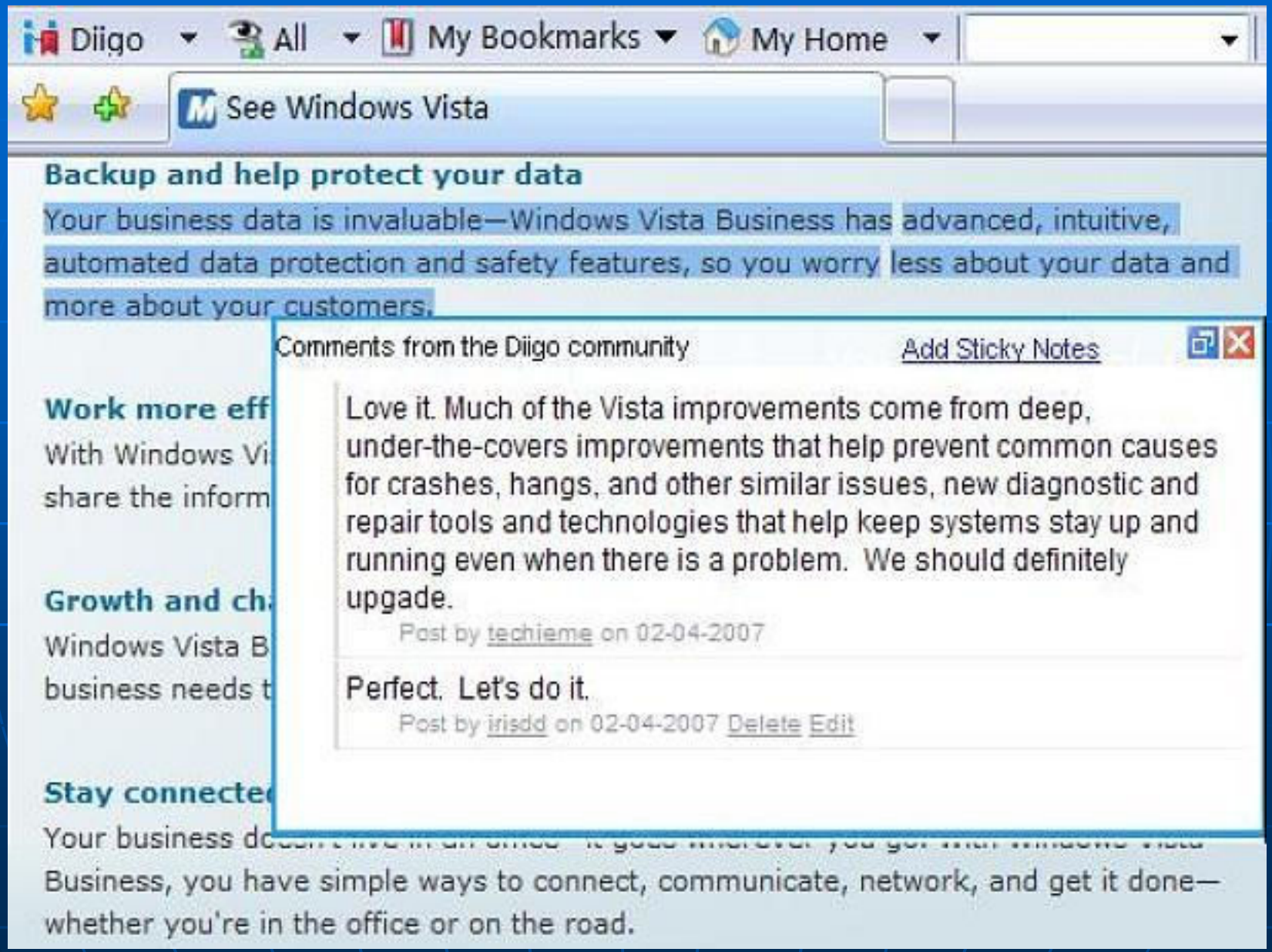
Diigo
All
My Bookmarks
My Home
See Windows Vista
Backup and help protect your data
Your business data is invaluable—Windows Vista Business has advanced, intuitive, automated data protection and safety features, so you worry less about your data and more about your customers.
Comments from the Diigo community
Add Sticky Notes
Love it. Much of the Vista improvements come from deep, under-the-covers improvements that help prevent common causes for crashes, hangs, and other similar issues, new diagnostic and repair tools and technologies that help keep systems stay up and running even when there is a problem. We should definitely upgade.
Post by techieme on 02-04-2007
Perfect. Let's do it.
Post by irisdd on 02-04-2007 Delete Edit
Work more eff
With Windows Vi
share the inform
Growth and ch
Windows Vista B
business needs t
Stay connecte
Business, you have simple ways to connect, communicate, network, and get it done—whether you're in the office or on the road.

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2008 Chevy Cobalt SS Turbo! 260HP, 0-60 in 5.7, Nurburgring in 8:22.85

autoblog.com — The new Cobalt SS Turbo gains 55 horses over the outgoing supercharged SS, and apparently, it goes like stink. Coupe arrives in Q2 2008, with sedan variant to follow after that. The coupe set a class record for FWD sport compacts, lapping the Nurburgring in 8:22.85. More... (Motorsport)

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Has Facebook Replaced Yahoo in the Big 3?

centernetworks.com — Execs leaving, potential acquisitions... Has Yahoo been replaced by Facebook to sit along side Google and Microsoft in the big 3 More... (Business & Finance)

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167 diggs — digg it

RIAA denied default judgement as judge cites doubt over positive ID

arstechnica.com — For the second time in two months, the RIAA has been unable to obtain a default judgment in a case where the defendant failed to show up in court. Once again, the RIAA's boilerplate complaint was not enough to do the trick. More... (Tech Industry News)

11 Comments | Share | Bury | MrBabyMan — made popular 13 min ago

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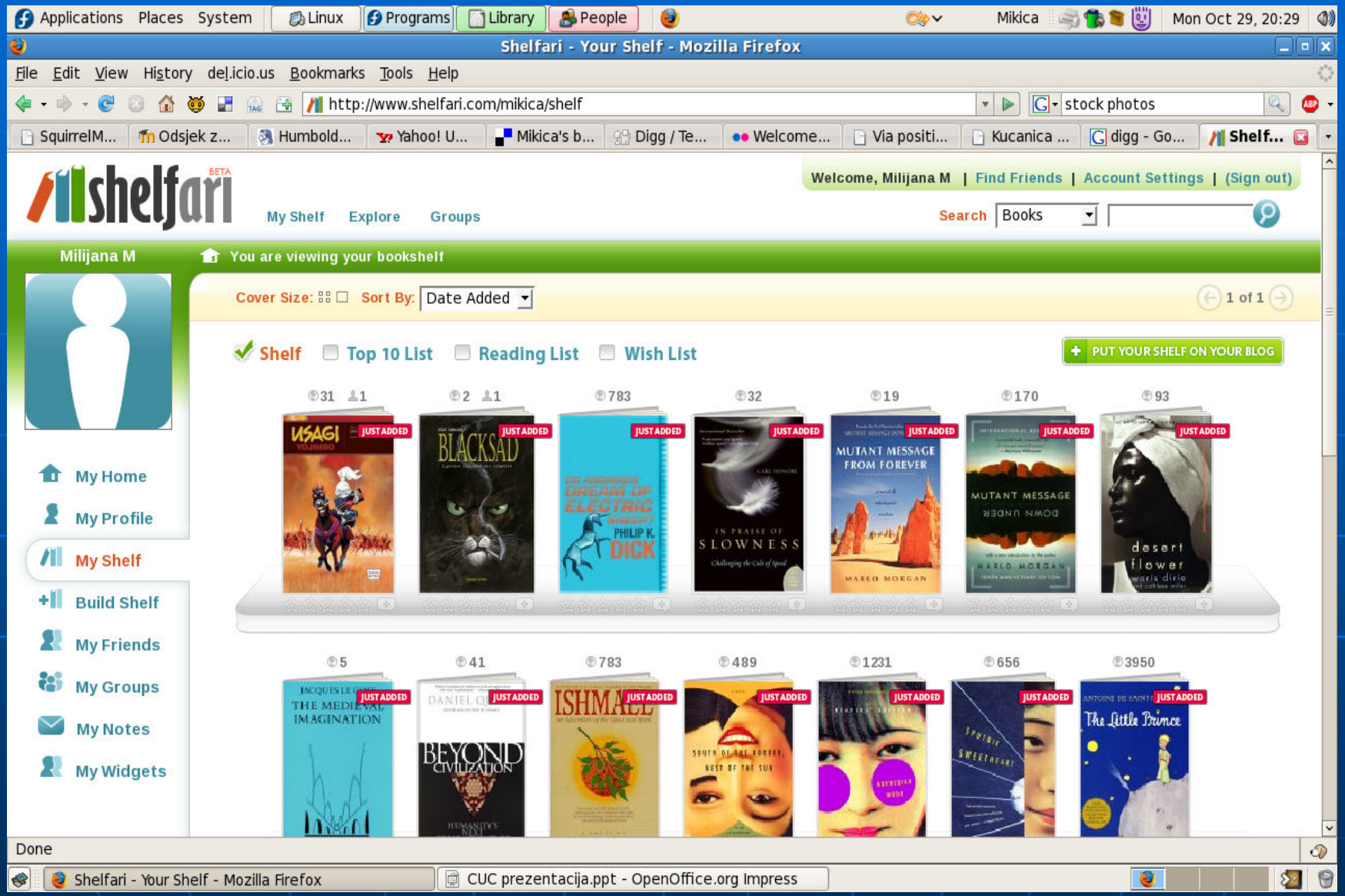
Shelfari

http://www.shelfari.com/

- interaktivna stranica za ljubitelje knjiga
- virtualne police
- sharing, preporuke, liste, komentiranje, komunikacija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Podcastovi

http://www.podcast.net/

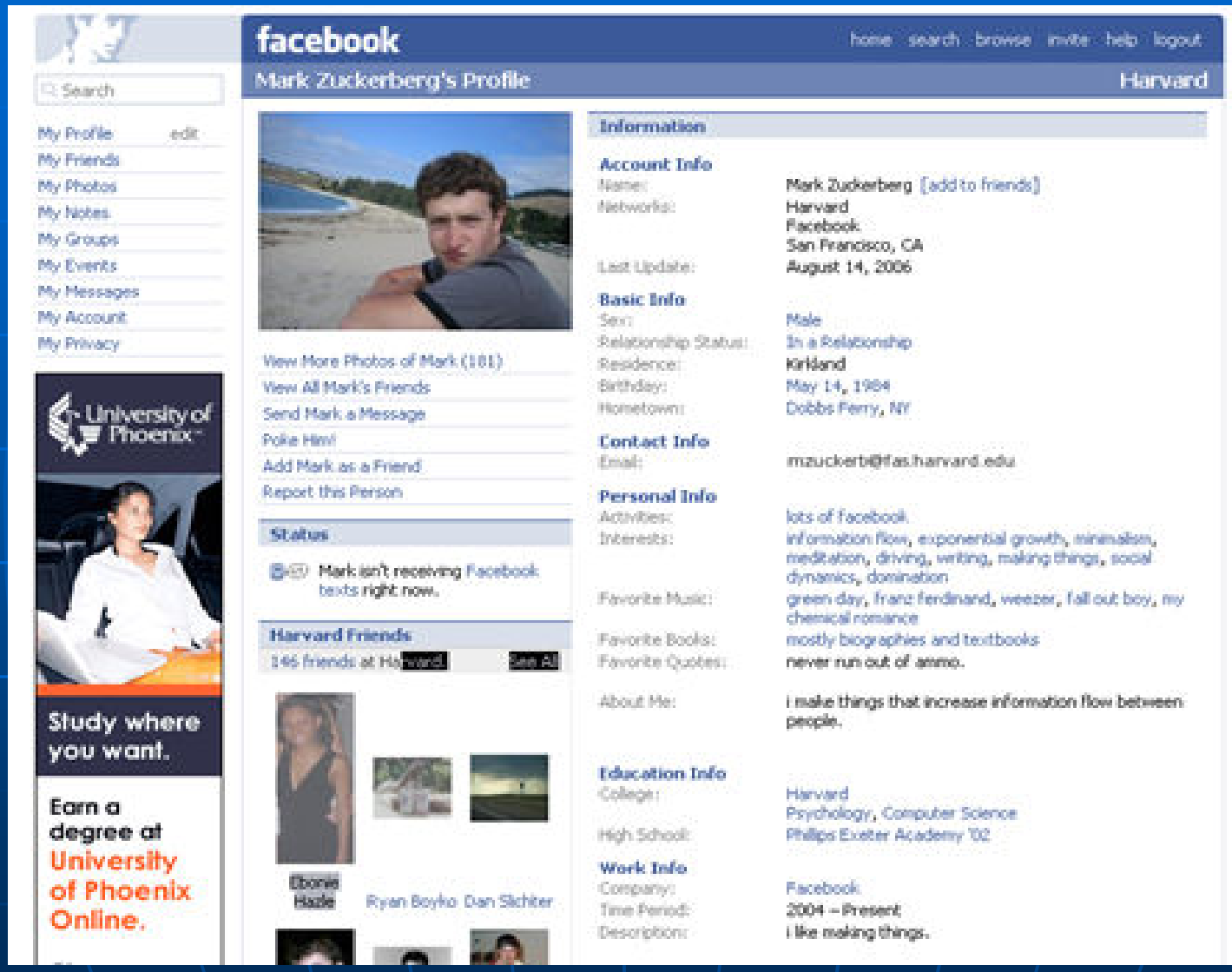
- digitalni file (zbirka fileova) distribuiran putem Interneta korištenjem feedova, a namijenjen slušanju na mp3 uređaju ili PC-u

- Chatham Middle School News Podcasts
  http://www.podcast.net/show/74321
- New Scientist Podcast
  http://www.podcast.net/show/50294

Facebook

http://www.facebook.com/

- povezivanje sa zajednicom (suradnicima, kolegama, prijateljima, …)
- upload slika, sharing linkova, dokumenata i video materijala
- korištenje Facebook platforme za izradu različitih aplikacija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My Friends
My Photos
My Notes
My Groups
My Events
My Messages
My Account
My Privacy
University of Phoenix
Study where you want.
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View More Photos of Mark (181)
View All Mark's Friends
Send Mark a Message
Poke Him!
Add Mark as a Friend
Report this Person
Status
Mark isn't receiving Facebook texts right now.
Harvard Friends
146 friends at Harvard
See All
Ebonie Hazle
Ryan Boyko
Dan Slichter
Information
Account Info
Name: Mark Zuckerberg [add to friends]
Networks: Harvard
Facebook
San Francisco, CA
Last Update: August 14, 2006
Basic Info
Sex: Male
Relationship Status: In a Relationship
Residence: Kirkland
Birthday: May 14, 1984
Hometown: Dobbs Ferry, NY
Contact Info
Email: mzuckerb@fas.harvard.edu
Personal Info
Activities: lots of facebook
Interests: information flow, exponential growth, minimalism, meditation, driving, writing, making things, social dynamics, domination
Favorite Music: green day, franz ferdinand, weezer, fall out boy, my chemical romance
Favorite Books: mostly biographies and textbooks
Favorite Quotes: never run out of ammo.
About Me: i make things that increase information flow between people.
Education Info
College: Harvard
Psychology, Computer Science
High School: Phillips Exeter Academy '02
Work Info
Company: Facebook
Time Period: 2004 – Present
Description: i like making things.

Netvibes

http://www.netvibes.com/

- alternativa Web portalu (personalizirana početna stranica)
- *Sve na jednom mjestu!*
  - Web stranice
  - blog
  - e-mail
  - social networks
  - tražilice
  - komunikacijski alati (instant messaging)
  - fotografija
  - video
  - podcast
  - widgets, itd.

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del.icio.us/Mikica

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- NOVA
- Furl
- Natasha Newton Illustrations
- Blackmago illustrations
- Design Sponge
- Englesko-hrvatski rjecnik
- Visual Literacy
- Project Gutenberg
- 110+ Resources For Creative Minds
- 100 Websites You Should Know and Use
- Jezicne tehnologije za hrvatski jezik
- 99 Useful Resources for Graphic Designers
- Google Hacks
- CiteSpace: visualizing patterns and trends in scientific literature

Digg

59 diggs — **GM reveals concept Hummer H2 "Safari" complete with gun rack!**
Grab your "Safari" edition Hummer H2 -- now comes complete with a gun rack! This concept will be revealed this week at the annual SEMA show in Las Vegas

287 diggs — **Portland Oregon Will Vote to Legalize Marijuana**
Portland, Oregon could be the next major U.S. city to legalize the possession of small amounts of marijuana. Measure 8's ballot caption explains that it, "Assets criminal penalty exemption for possession of marijuana in Portland." The measure would allow possession of less than an ounce of marijuana for people over 21.

254 diggs — **Bill Maher to the GOP: Stop the Scaremongering on Iran!**
"Maher: ... At the Republican debate last week, Mike Huckabee said Islamofascism is the greatest threat we ever faced. Really? More than the Nazis and the Russians and the Redcoats?"

190 diggs — **11 Essential Tips for Taking Photos at Halloween**
The key to capturing subjects at Halloween is no different from the normal elements of good composition in photography. As you take

Photos from everyone tagged colorful

Done

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Prijenosne aplikacije

http://portableapps.com/

- open source, besplatne
- USB flash drive, iPod, prijenosni hard drive, itd.
- prijenosni računalni programi (Mozzila Firefox, Notepad, Pidgin, GIMP, MPlayer, …)
- prijenosni osobni podaci (bookmarks, postavke, e-mail i dr.)

Što nas još očekuje?

- Manipuliranje web sadržajima
  - Yahoo Pipes (grupiranje i manipuliranje web sadržajima) http://pipes.yahoo.com/pipes/
  - ScrapBook (Fireox ekstenzija, čuvanje web stranica i organizacija sadržaja stranica) http://amb.vis.ne.jp/mozilla/scrapbook/
  - openSubscriber (mail-to-web gateway, organizacija i praćenje mailing lista) http://www.opensubscriber.com/
  - Protopage (osobna web stranica, brži i organiziraniji pristup web sadržajima) http://www.protopage.com/

Što nas još očekuje … ?

- Komunikacija
  - Mugshot (update svih web stranica, sharing sadržaja) http://mugshot.org/main
  - Meebo (instant messaging website, podržava AIM, Yahoo!, MSN, Google Talk, ICQ and Jabber) http://wwwm.meebo.com/
- Analiza podataka
  - ManyEyes (social data analysis, princip vizualizacije) http://services.alphaworks.ibm.com/manyeyes/home
  - Google Analytics (dana analysis, features) http://www.google.com/analytics/
- Licence
  - Creative Commons (besplatni alati koji autorima, umjetnicima, znanstvenicima i profesorima omogućuju slobodu korištenja i zaštitu njihovog kreativnog rada) http://creativecommons.org/
- i dr.

Zaključak

- YASN (Yet Another Social Software)
- primjenjivost (kompatibilnost), praktičnost, iskoristivost
- *"Imagination is more important than knowledge!"*

(Albert Einstein)