

ՅՈՒՆԱՅԵՐՑ ԵՐԿՐԻՆԳՈՒՄ

ԿՅԸ 2.0, ԵՃԻ

ՌԻՆՑ ՄԻՔՐԻՆ

Otvoreno računarstvo

- Web 2.0
- RIA (AJAX)

Mario Žagar



The background of the slide features large, light green letters 'O' and 'R' that are partially visible, with the 'O' on the left and the 'R' on the right, both rendered in a simple, rounded font style.

Web 2.0

"Web 1.0"

- Statičke stranice
 - Ili dinamičke stranice za jednostavnije uređivanje
- *Read-only* Web sjedišta
 - Čitatelji su pasivni promatrači, sakupljači informacija
- Jedan ili nekolicina “urednika” sadržaja
 - Naglasak na informacijama koje su “urednici” odabrali
 - Informacije se rijetko mijenjaju
- Svaki zahtjev upućen poslužitelju – osvježavanje čitave stranice

Web 1.0 - Primjer





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- ONLINE PROGRAMS -

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Associate of Arts in Business
Associate of Arts in Health Care Administration
Associate of Arts in Information Technology

BACHELOR'S DEGREES
Bachelor of Science in Business/Marketing
Bachelor of Science in Criminal Justice Administration
Bachelor of Science in Management

MASTER'S DEGREES
Master of Business Administration
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The 28th [U.S. president](#), [Woodrow Wilson](#), born

This Day in History



The original [Westminster Abbey](#), located in London, was



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"Web 2.0"



“Web 2.0 seems to be like Pink Floyd lyrics: It can mean different things to different people, depending on your state of mind.”

Kevin Maney, USA Today (2005)

"Web 2.0"

- Nitko ne zna što je Web 2.0 😊
- Više od dohvata informacija
- **Suradnja, dijeljenje, kreativnost**
- Međusobno povezane usluge
- **Sadržaj kreiraju korisnici**
- Nema novih tehnoloških specifikacija

Suradnja čini svijet boljim!

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languages

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Today's featured article

William Bruce was a [Scottish gentleman-architect](#), "the effective founder of [classical architecture](#) in Scotland", as [Howard Colvin](#) observes. A key figure in introducing the [Palladian style](#) into Scotland, he has been compared to the pioneering [English architects](#) [Inigo Jones](#) and [Christopher Wren](#), and to the contemporaneous English introducers of French style in domestic architecture [Hugh May](#) and [Roger Pratt](#). Bruce played a role in the [Restoration](#) of [Charles II](#), carrying messages between the exiled king and [General Monck](#), and was rewarded with lucrative official appointments, including that of [Surveyor General of the King's Works in Scotland](#), effectively the "king's architect". His patrons included the [Duke of Lauderdale](#), the most powerful man in Scotland at the time. Despite his lack of technical expertise, he worked with competent [masons](#) and professional builders, to whom he imparted a classical vocabulary; thus his influence was carried far

In the news

- Former [Pakistani Prime Minister Benazir Bhutto](#) (*pictured*) is **assassinated** in [Rawalpindi](#), [Pakistan](#).
- The **Nepalese government** agrees to abolish the country's 240-year-old [monarchy](#).
- The [People's Power Party](#) led by [Samak Sundaravej](#) wins a plurality in [parliament](#) after the **general elections** in [Thailand](#).
- The [Czech Republic](#), [Estonia](#), [Hungary](#), [Latvia](#), [Lithuania](#), [Malta](#), [Poland](#), [Slovakia](#) and [Slovenia](#) join the **Schengen zone** of the [European Union](#).
- After more than 190 days of discussion, an [interim government](#) led by [Guy Verhofstadt](#) is **formed** in [Belgium](#).

Ključne riječi Weba 2.0

- blogging
- social bookmarking
- social networking
- wiki
- RSS
- podcasting
- tagging
- mashup
- Web API



Luca Cremonini

Web 2.0 - blogging




- <http://www.blogger.com/>

The screenshot shows the Blogger homepage with a dark blue header. On the left is the Blogger logo (an orange 'b' in a square). To its right is the word 'Blogger' in white. Further right is a language dropdown menu set to 'English'. Below the logo is a sign-in section titled 'Sign in to use Blogger with your Google Account'. It contains fields for 'Username (Email):' and 'Password: (?)', a 'SIGN IN' button, and a 'Remember me (?)' checkbox. Below the header, there are two sections: 'BLOGS UPDATED AT 12:10 AM' with a link to 'A Day In The Life Of...', and 'BLOGS OF NOTE' with a link to 'Tacky Christmas Yards' and a 'more »' link. The main content area has a light beige background. On the left, under 'What's a blog?', there are four icons with labels: 'Publish thoughts' (a notepad and pencil), 'Get feedback' (two speech bubbles), 'Post photos' (a stack of photos), and 'Go mobile' (a mobile phone). A 'TAKE A QUICK TOUR' button is to the right of these icons. Below the icons is a paragraph: 'A **blog** is your easy-to-use web site, where you can quickly post thoughts, interact with people, and more. All for **FREE**.' On the right, under 'Create a blog in 3 easy steps:', there is a numbered list: 1. Create an account, 2. Name your blog, 3. Choose a template. Below the list is a large orange arrow button that says 'CREATE YOUR BLOG NOW'. At the bottom, there is a footer with links: Home, About, Buzz, Help, Discuss, Language, Developers, Gear, Terms of Service, Privacy, Content Policy, and a copyright notice: Copyright © 1999 - 2007 Google.

Web 2.0 – social bookmarking



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hotlist what's hot right now on del.icio.us

tags to watch [more ...](#)


HOT NOW see also: [popular](#) | [recent](#)




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Add Custom Watermark to Images, Free. Protect Your Photos and Images - PicMarkr [save this](#) **121** people
first posted by blinky11 [watermark](#) [flickr](#) [tools](#) [generator](#) [image](#) tags




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Today's Blog Music / The Hype Machine - discover, listen and buy music discussed on the best mp3 blogs
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-The Culture Front-

war
Barack Obama's Iraq Speech - Wikisource
calvin_hobbes1.jpg (Imagine JPEG, 1899x1335 pixel) - Riscalata (39%)
US 'Iran attack plans' revealed - just contingency plans, tho.. so no worries then!

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ruby
3 Ruby Lectures and Presentations Given at Google
InfoQ: Evaluation Options in Ruby
Rails Envy: Acts_As_Ferret Tutorial

Web 2.0 – social bookmarking



- <http://www.digg.com/>

The screenshot shows the Digg website interface. At the top is a navigation bar with links for 'Join Digg', 'About', and 'Login'. Below this is a search bar and a category menu including 'All', 'News', 'Videos', 'Images', 'Podcasts', and 'Customize'. A secondary menu lists various topics like 'Technology', 'World & Business', 'Science', 'Gaming', 'Lifestyle', 'Entertainment', 'Sports', and 'Offbeat'. The main content area displays a list of news items, each with a 'digg' count, a title, a brief description, and a 'digg it' button. The items include 'Correct Condom Usage Tips for Morons', 'Why Today's Music Sounds Like Shit', 'A world at war', 'Great birthday gifts for your girlfriend', and 'The Saddest iPhone We've Ever Seen [Pics]'. On the right side, there is a large advertisement for a Sony Cyber-shot camera with the text 'HDNA High Definition. It's in our DNA.' Below the ad is a section titled 'Top in All Topics' which lists several trending items with their respective digg counts and titles.

digg™ Join Digg About Login Search Digg...

All News Videos Images Podcasts Customize Popular Upcoming

Technology World & Business Science Gaming Lifestyle Entertainment Sports Offbeat

News, Videos, Images **Most Recent** Top in 24Hr 7 Days 30 Days 365Days

Check out **Digg the Candidates**, where you can Digg and watch the activity of your favorite Presidential candidate. Remove

92 diggs **Correct Condom Usage Tips for Morons**
condomman.com — While double-bagging your groceries may be an excellent idea, you will want to avoid double-bagging your condoms. [More...](#) (Health)
28 Comments Share Bury Superkeybo made popular 13 min ago

566 diggs **Why Today's Music Sounds Like Shit**
rollingstone.com — Over the past decade and a half, a revolution in recording technology has changed the way albums are produced, mixed and mastered — almost always for the worse. Producers and engineers call this "the loudness war," and it has changed the way almost every new pop and rock album sounds... [More...](#) (Music)
186 Comments Share Bury MrBabyMan made popular 43 min ago

256 diggs **A world at war**
ablogistan.com — In current world conflicts more civilians are victims. During World War I, civilians made up fewer than 5% of all casualties. Today, 75% or more of those killed or wounded in wars are non-combatants. Some end-of-year food for thought. [More...](#) (World News)
76 Comments Share Bury Rubab made popular 53 min ago

223 diggs **Great birthday gifts for your girlfriend**
ladytalksalot.blogspot.com — This is all about gifts for your girlfriend no matter what stage in the relationship you are in from just started seeing each other to living together. [More...](#) (People)
67 Comments Share Bury MedievalMagic made popular 53 min ago

486 diggs **The Saddest iPhone We've Ever Seen [Pics]**
IMAGE — gizmodo.com (Apple) made popular 1 hr 13 min ago

SONY
HDNA
High Definition. It's in our DNA.

Top in All Topics all news videos images

2373 **Top 10 Humorous, Bizarre and Compelling [PICS] of 2007**

1730 **Benazir Bhutto says... Bin Laden was Murdered?**

1443 **The World's Loneliest Prada Store (PICS)**

1326 **Snorting a Brain Chemical Could Replace Sleep**

948 **The Wii, officially hacked!**

929 **Old Man Doesn't Take Any Chances**

860 **The Year in Douchebaggery: The 10 Biggest D-Bags of 2007**

Web 2.0 – social networking



- <http://www.linkedin.com/>

The screenshot shows the LinkedIn homepage interface. At the top, there's a navigation bar with the LinkedIn logo, a welcome message for 'Ivana', and links for 'Account & Settings', 'Inbox', and 'Expand Your Network'. Below this is a secondary navigation bar with tabs for 'Home', 'People', 'Jobs & Hiring', 'Services', 'Answers', 'My Profile', and 'My Contacts'. A search bar is prominently displayed with the text 'Search People fer, zagreb' and a 'Go' button. Below the search bar, the 'People Search Results' section is visible, indicating that 105 users were found. The results are sorted by 'keyword relevance'. Two profiles are listed: Marin Orlić (1st) and Filip Kis (2nd). Each profile includes their current and past roles, keywords, and a group membership (Forbes).

LinkedIn Welcome, Ivana [Sign Out] Account & Settings | Inbox Expand Your Network

Home People Jobs & Hiring Services Answers My Profile My Contacts

Keyword Search Name Search Reference Search Your Network

Search People fer, zagreb Go Advanced Search

People Search Results

We found 105 users in your network matching your criteria. refine search results

Keywords: fer, zagreb Sorted by: keyword relevance

Your Network (105) LinkedIn Network (top 20) What do these icons mean?

Marin Orlić 1st 44
Researcher at Faculty of electrical engineering and computing, Zagreb
Croatia | Information Technology and Services
Current: Researcher at Faculty of electrical engineering and computing, Zagreb; Research Assistant at University of Zagreb; Research assistant at FER
Past: Netgen; Beta Tau Beta; Amphinicy
Keywords: Researcher at Faculty of electrical engineering and computing, Zagreb Research Assistant at University of Zagreb Research assistant at FER ...

Filip Kis 2nd 232
Student at Sveučilište u Zagrebu
Croatia | Computer Software
Current: Member at BEST Zagreb; Developer at ArTresor naklada d.o.o.
Past: BEST; BEST Zagreb; V. gimnazija
Keywords: ... Member at BEST Zagreb ... IT responsible at BEST Zagreb ... Faculty of Electrical Engineering and Computing, FER ...
Groups: Forbes

Web 2.0 – social networking



- <http://www.facebook.com/>

The screenshot shows the Facebook homepage layout from 2007. On the left is a sidebar with the Facebook logo, login fields for email and password, a 'Remember me' checkbox, a 'Login' button, and a 'Forgot Password?' link. The main content area features a large Facebook logo, a description of the site as a 'social utility', a 'Sign Up' button, and a list of features like 'upload photos' and 'publish notes'. At the bottom, there is a 'Find your friends' link and a search bar.

facebook

Tour

Email:
|

Password:
|

☐ Remember me

Login

Forgot Password?

Already a Member? [Login](#)

facebook

Facebook is a **social utility** that connects **you** with the people around you.

Everyone can use Facebook — [Sign Up](#)

[upload photos](#) or [publish notes](#) • get the **latest news** from your friends • post videos on your profile • tag your friends • use [privacy settings](#) to control who sees your info • [join a network](#) to see people who live, study, or work around you

[Find your friends](#) ▶

or Search by name: [Search](#)

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Facebook © 2007

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Web 2.0 - wiki



- <http://en.wikinews.org/>



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From the fundraising blog – [Wikimedia Commons: The Power of Free Content Media](#)

"Que viva la educacion gratuita" – Dennis Salcedo

Welcome to Wikinews

The free news source *you can write!*


Friday, December 28, 2007, 23:24 (UTC)

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Latest stories (full list): [TWTC Nangang is constructed in Taipei, Taiwan_](#)



Benazir Bhutto buried; violence erupts in assassination aftermath

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Got news, but no time to write a full article or a quick brief?

Tell us [what news](#) you would like to see covered by Wikinews at [Wikinews:Requested articles](#).

Wikinews interviews Christoph Bals of the NGO Germanwatch after conclusion of climate conference

At the end of the climate conference in Bali, Wikinews interviewed Christoph Bals of the NGO Germanwatch, a German NGO that lobbies on climate change. Mr.



EXCLUSIVE INTERVIEW

Web 2.0 - RSS



- RSS Otvorenog računarstva u Thunderbirdu

The screenshot shows the Thunderbird email client interface. On the left, the 'All Folders' pane lists various RSS feeds, including 'CHECKpoint....com (476)', 'E-learning Insights (10)', 'elearningeu... RSS (363)', 'Learning 2....-week (34)', 'Moodle: Mo... Buzz (35)', 'Erik Duval's Weblog (17)', 'FER WebWorld (233)', 'FER - Otvor....rstvo (20)', 'OPIPI', 'RIP', 'Stari OR', 'FLOSS Weekly (10)', 'Giveaway of t...e daily (13)', 'Grammar Girl...riting (74)', 'Heartbeat (9)', 'How to Chang... World (29)', and two HTTP feeds. The 'FER WebWorld (233)' folder is selected, and its contents are displayed in the main pane as a table of email messages.

Sender	Subject	Date	Size
Ivana Bosnić	Organizacija predmeta	10.3.2008 ...	1KB
Branko Mihaljević	Pitanja u vezi laboratorijskih vježbi	11.3.2008 1...	1KB
Marin Orlić	Alat za validaciju XML-a	11.3.2008 ...	1KB
Branko Mihaljević	3. laboratorijska vježba	17.3.2008 ...	1KB
Branko Mihaljević	Odgovori na pitanja 21.3.2008. - 23.3.2008.	20.3.2008	1KB

The email 'Pitanja u vezi laboratorijskih vježbi' from Branko Mihaljević is open. The header shows the subject, from, date (11.3.2008 10:20), and website (http://www.fer.hr/predmet/otvrac_a?@=1cp52). The body of the email contains a blue smiley face icon and the following text:



Sva pitanja u vezi laboratorijskih vježbi i drugih sličnih stvari od općeg značaja treba postavljati na forumu ove stranice, a ne na mail!

Na mailove koji nemaju smisao zajedničkih problema, nego su osobne prirode (npr. opravdani izostanci, osobni problemi, upiti, molbe i sl.) ćemo i dalje odgovarati mailom.

Web 2.0 - podcasting



- <http://www.podcastalley.com/>



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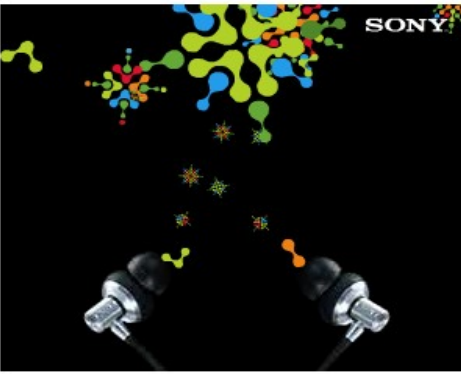

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NEW! Top 10 for December
These are The Top 10 Podcasts for the month of December.

- 1. [Free Talk Live](#)
- 2. [Keith and The Girl](#)
- 3. [MuggleCast](#)
- 4. [RED BAR RADIO .com](#)
- 5. [Common Sense with Dan ...](#)
- 6. [Vegan Freak Radio](#)
- 7. [Keith and The Girl TV](#)
- 8. [Hardcore History](#)
- 9. [Blast the Right](#)
- 10. [Nobody Likes Onions](#)

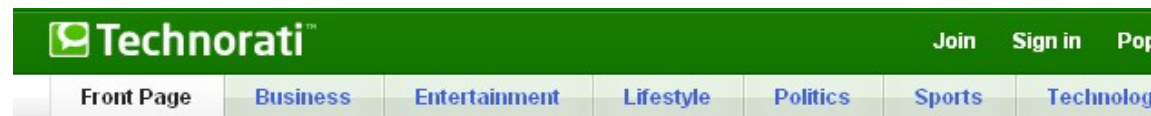
5 Featured Podcasts

► [Daily Source Code](#)

Web 2.0 - tagging



- <http://www.technorati.com/>



Front page / what's percolating in blogs now

Rising blog posts by attention



Technology »
**Apple TV on Yahoo!
Tech's Worst of 2007**

list

by [WeblogsInc](#) in [The Unofficial Apple Weblog \(TUAW\)](#) · **Authority: 6,180**
2 hours ago

Filed under: Analysis / Opinion, Apple TV Apple products often find themselves on the yearly 'Best of' lists composed by the mainstream media and bloggers alike, but they don't often grace the 'Worst of' lists. Sadly, Yahoo! Tech has deemed the Apple TV...

Rising news stories by attention



Entertainment »
**No Criminal Charge for
Brandy over Fatal Car
Crash**

in [People Magazine](#)
2 hours ago

The R&B singer still faces four wrongful-death lawsuits for the traffic accident...

Attention [1]: [Hot Momma Gossip](#)

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What bloggers are saying now

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Contributing bloggers

[Fergie's Tech Blog](#) · **Authority: 177**
by [fergiesdave](#)

Web 2.0 - tagging



- <http://www.vlada.hr/> 😊

The screenshot shows the official website of the Government of the Republic of Croatia. The header features the Croatian coat of arms and the text 'VLADA REPUBLIKE HRVATSKE'. Below this is a navigation bar with links to 'NASLOVNICA', 'AKTUALNE TEME I PROJEKTI', 'MULTIMEDIJA I FOTOGALERIJE', and 'PREUZIMANJA'. A search bar labeled 'TRAŽILICA' is also present. The main content area is titled 'AKTUALNO IZ VLADE' and lists several news items from December 2007, including a New Year's greeting from the Prime Minister and reports on the Vice Prime Minister's visits to a children's hospital and a family of a fallen soldier.

This screenshot shows a navigation menu with various categories. At the top, there are tabs for 'Gospodarstvo', 'Pravosuđe', 'Znanost i obr.', and 'Civilno društ.'. Below these, a list of topics is displayed, including 'Znanost i obrazovanje', 'EU', 'Zakoni', 'Zdravstvo i socijalna skrb', 'Sport', 'Zapošljavanje', 'i radno pravo', 'Financije i tržište kapitala', 'NATO', 'Branitelji i Domovinski rat', 'Kultura', 'Pravosuđe i unutarnji poslovi', 'Gospodarstvo', 'Civilno društvo', 'Promet', and 'Obljetnice'. A 'Prikaži sve' button is located at the bottom right of the menu.

The screenshot shows the 'Mojauprava' website, which is a portal for citizens to interact with government services. The header includes 'MOJAUPRAVA.HR' and 'aktualne teme'. The main heading is 'Mojauprava' in large, bold letters, followed by the tagline 'Sve na jednom mjestu!'. Below this, there is a logo for 'Hrvatska' and the text 'mojauprava.hr Radno vrijeme 0-24!'. At the bottom, there is a 'TEME:' section with numbered links (1, 2, 3, 4, 5, 6) and a 'Pokaži temu' button.

Web 2.0 - mashups



- <http://www.digglicious.com/>

digglicious.com

a cool blend of digg.com and del.icio.us

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We condemn Benazir Bhutto's assassination.

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14 digg	4805 del.icio.us	Jajah http://www.jajah.com/ del.icio.us tags... VoIP VOIP Stuart software voip telephony phone telefonie Hilfreich web skype sip Internet Tool utility Cool SIP sources_cases Telephony Software Video
74 digg	820 del.icio.us	Film Techniques of Alfred Hitchcock - suspense, camera angles, style, editing, basics http://www.borgus.com/think/hitch.htm del.icio.us tags...
0 digg	355 del.icio.us	Max Design - CSS Centering - fun for all! http://www.maxdesign.com.au/presentation/center/ del.icio.us tags... css
0 digg	842 del.icio.us	FRAPS show fps, record video game movies, screen capture software http://www.fraps.com/ del.icio.us tags... software video googleearth hack investigaciÃ³n screengrabs Graphics capture 3d animation cool Tools machinema videoGame
471 digg	0 del.icio.us	List of confirmed iPhone 1.1.3 firmware features http://www.gearlive.com/news/article/q407-iphone-113-firmware-feature-gallery/
0 digg	60 del.icio.us	lunch at noon http://www.lunch-at-noon.com/ del.icio.us tags... webdesign flash
4 digg	1244 del.icio.us	ScienceBlogs http://scienceblogs.com/ del.icio.us tags... science,culture, blog science research culture technology blogging education Culture Internet news reference Science writing blogs rationalism newsaggregator weblog daily politics favorite:science

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[WWW Del Icio US](#)
[Encrypt Bookmarks](#)

What's hot Now

 RSS 2.0

[David Blaine](#)
162 [Street Magic Part 3](#)

[Topless Woman Lured Perverts in Police Sting \(NSFW\)](#)
64

[List of confirmed iPhone 1.1.3 firmware features](#)
49

[A Collection of Hilariously Frightening Olan Mills Photos](#)
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[How to Do a Reverse Switch](#)
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What's hot Today

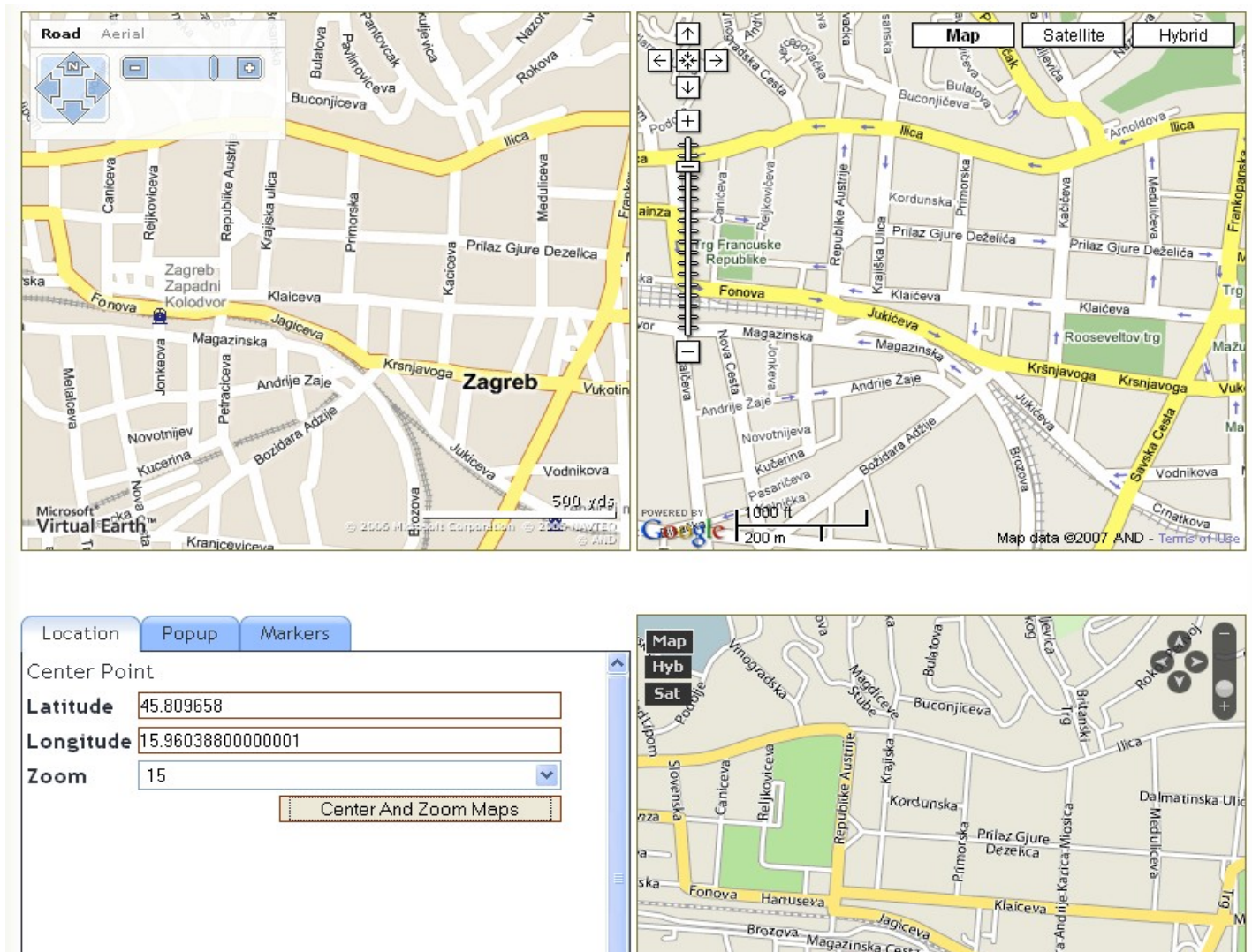
 RSS 2.0

[The Death of High Fidelity : Rolling](#)
2520

Web 2.0 - mashups



- <http://www.rockstarapps.com/samples/map-compare>



Web 2.0 – Web APIs



- <http://www.flickr.com/>

flickr

[Sign In](#)

Create Your Account

Only takes a moment with your Yahoo! ID

**Share your photos.
Watch the world.**

SEARCH

1,784 photos uploaded in [the last minute](#) • 160,129 photos tagged with [morning](#) • 2.0 million photos [geotagged](#) this month • [Take the tour](#)



Share & stay in touch



Upload & organize



Make stuff!



Explore...

Take the Tour

Explore [Flickr Blog](#), the [World Map](#), [Camera Finder](#) or interesting photos from [the last 7 days](#).

Web 2.0 – Web APIs



- <http://www.flickr.com/services/>



Flickr Services

[API Documentation](#) | [Feeds](#) | [Your API Keys](#)

Flickr has an open [Application Programming Interface](#) (API for short). This means that *anyone* can write their own program to present public Flickr data (like photos, tags, profiles or groups) in new and different ways. There's a long list of [API methods available to you to work with](#), and we love it when this happens, so... **go forth and play!**

Featured Third Party Flickr Apps



Go, fd!

fd's Flickr Toys by fd

fd (aka John Watson) is the epitome of the Flickr API hacker. He's made more bits and pieces than we can poke sticks at, and all of them are either fun toys for playing with photos or extremely useful tools that we haven't had time to build yet.



Trip Planner by Yahoo! Travel

Trip Planner is a website that lets you build a travel itinerary with your hotel, nearby restaurants, attractions, maps, driving directions and more! When you return home, create a photo set of your trip on Flickr then show them off as part of your

Developing on the Flickr API

Anyone is free to write software to do cool stuff with available Flickr data via our API. Here's how to get started:

1. Read [the Flickr documentation](#)
2. Subscribe to [API mailing list](#)
3. Join the [API group](#) on Flickr
4. [Apply for an API Key](#)

Read the Fine Print

Flickr services are experimental and are currently offered to outside developers on an ad hoc basis with no guarantee of uptime or availability of continued service. We reserve the right to disable access to external applications at any time.

We are currently evaluating the issues and results that arise from making these services available and creating policies for our full public release.

Yahoo! is not responsible for the content or features provided by outside application developers, nor for any Flickr members decision to make use of outside applications.

Feeds

Find out how to construct [feeds](#) to public photos.

Third Party Flickr Apps List

Cool Stuff

Rich Internet Applications (RIA)

- Asynchronous JavaScript and XML (AJAX)

Rich Internet Applications (RIA)



- R = Rich / Rapid
- White paper March 2002 , Macromedia
 - koncept i ranije Microsoft, Forrest Research,....
- Brza izrada Web aplikacija s bogatim korisničkim sučeljem
- Aplikacije slične samostalnim (*standalone*) desktop aplikacijama
 - Rade unutar preglednika Weba
 - Ne zahtijevaju instalaciju
 - Nije potrebna isporuka nadogradnje aplikacije
- Procesiranje i vizualizacija na klijentu, stanje programa i podataka na poslužitelju

Rich Internet Applications (RIA)



- Još uvijek u ranoj fazi razvoja i usvajanja
 - zahtjev za modernim preglednicima
 - zahtjev za definiranim normama Web-a
 - zahtjev za razvojnom okolinom
 - dodatna interaktivnost zahtijeva i tehnička unapređenja
 - prilagodba korisnika
 - uloga gumba "Back" ima drugi smisao

RIA - razvojna okruženja

- Google Web Toolkit framework(GWT) (2006.)
 - AJAX + Java + Eclipse
- Adobe Flash, Adobe Flex, Adobe AIR (FlashPlayer, AJAX)
- Appcelerator, GNU GPL 2 (open source)
 - Java, PHP, Python, .NET, Pearl, Ruby on Rails
- OpenLaszlo, open source
- Curl, MIT - Curl, Inc. 2002.
- JavaFX, Java applets, Java applications, Sun
- Silverlight, podskup Windows Presentation Foundation (WPF), XAML, Microsoft
- ActiveX, Microsoft, samo za InternetExplorer
- Mozilla Prism
 - na klijentskoj strani, neovisno o pregledniku

RIA - jezici

- AJAX
 - DHTML(JavaScript, XML, HTML, DOM, XMLHttpRequest)
- XUL (XML temeljen)
 - samo Mozilla Foundation
- Curl
 - W3C, Rich Web Clients Activity, Web Application Format Working Group (originalno DARPA, MIT)
- SVG, SMIL,....

Ajax



- Nije sredstvo za čišćenje niti nogometni klub
- *Buzzword*
- **Asynchronous JavaScript and XML**
- Nije tehnologija!



- Skup tehnologija za razvoj Web aplikacija
 - **XML** – format podataka
 - **HTML, DOM** – elementi stranice
 - **JavaScript** – drži sve na okupu



Zašto Ajax?

- Interaktivnost Web aplikacija razmjenom manje količine informacija odjednom
 - Bez potrebe za osvježavanjem cijele stranice
 - Asinkrona – Web stranica nastavlja reagirati i za vrijeme slanja upita i čekanja odgovora
 - Ubrzavanje učitavanja stranice
 - Korištenje snage klijenta, smanjenje opterećenja poslužitelja

Uporaba na Web sjedištima

- Validacija obrazaca
- Automatsko dopunjavanje
- Dohvat dijela informacija po zahtjevu korisnika
- Osvježavanje podataka
- Razmjena podataka (*mashups*)
- ...

Kako radi Ajax?

- **XMLHttpRequest**
 - Mozilla, Opera, Safari, IE7: **JavaScript objekt**
 - IE5, IE6: ActiveX kontrola
- Porijeklo: Microsoft ☺
- Norma: *de facto*
 - Za sada samo W3C Working Draft
 - <http://www.w3.org/TR/XMLHttpRequest/>
 - Podrжан na različitim preglednicima Weba, platformama i operacijskim sustavima

Kako radi XMLHttpRequest?

- Nije nadnaravan 😊
- 1. Instanciranje objekta
- 2. Povezivanje s URL-om
 - odabir HTTP metode zahtjeva
- 3. Slanje zahtjeva
- 4. Čekanje odgovora poslužitelja (asinkrono!)
 - "život" stranice za vrijeme čekanja normalno nastavljen
- 5. Ako je odgovor OK, poziv funkcije za parsiranje odgovora
- 6. (najčešće) Prikaz rezultata unutar Web stranice

XMLHttpRequest - Primjeri

SINKRONI HTTP:

```
var r = new XMLHttpRequest();
r.open('GET', 'http://URL/', false);
r.send(null);
if(r.status == 200)
    dump(req.responseText);
```

SINKRONI FTP:

```
var r = new XMLHttpRequest();
r.open('GET', 'file:///datoteka', false);
r.send(null);
if(r.status == 0)
    dump(r.responseText);
```

ASINKRONI HTTP:

```
var r = new XMLHttpRequest();
r.open('GET', 'http://URL/', true);
r.onreadystatechange = function (aEvt) {
    if (r.readyState == 4) {
        if(r.status == 200)
            dump(r.responseText);
        else
            dump("Grješka\n");
    }
};
r.send(null);
```

Demistificirani XMLHttpRequest



```
if (window.XMLHttpRequest) {  
    var xmlHttp = new XMLHttpRequest();  
}  
else  
{  
    var xmlHttp = new ActiveXObject("Microsoft.XMLHTTP");  
}  
xmlHttp.open("GET", "http://www.primjer.hr");  
xmlHttp.onreadystatechange = promijeniStranicu;  
xmlHttp.send(null);
```

provjeri tip
Web
preglednika,
instanciraj objekt

poveži objekt s
URL-om i
odaberi metodu
zahtjeva

pošalji zahtjev
(u metodi POST,
ovdje se dodaju
parametri)

imenuj funkciju
koja će se izvršiti
po promjeni stanja
zahtjeva

Demistificirani XMLHttpRequest



```
function promijeniStranicu() {  
  if (xmlHttp.readyState == 4) {  
    if (request.status == 200) {  
      var odgovor = xmlHttp.responseText;  
      alert ("Dobio sam " + odgovor);  
    }  
    else {  
      alert ("Nešto loše se dogodilo");  
    }  
  }  
}
```

XML zbog DOM
parsiranja treba primiti
s .responseXML

funkcija koja
se izvršava pri
promjeni
stanja zahtjeva

provjeri je li
dovršeno
primanje
odgovora

provjeri je li
odgovor OK

XMLHttpRequest - Primjer (progress)


```
function onProgress(dat) {  
    var postoPreneseno = (dat.position / dat.totalSize)*100;  
    ...  
}  
  
function onError(dat) {  
    alert("Grješka " + dat.target.status + " u prijenosu!");  
}  
  
function onLoad(dat) {  
    // ...  
}  
// ...  
var r = new XMLHttpRequest();  
r.onprogress = onProgress;  
r.open("GET", url, true);  
r.onload = onLoad;  
r.onerror = onError;  
r.send(null);
```

Alternative XMLHttpRequest

- HTML element `<iframe>`
 - Služi za prikaz sadržaja jedne Web stranice unutar druge
 - HTTP zahtjev unutar skrivenog elementa `<iframe>`
 - Odgovor se procesira JavaScriptom
- Dinamički generiran JavaScript
 - Dodavanje elementa `<script>`
 - Upućivanje zahtjeva Web poslužitelju (npr. PHP skripti), sa željenim parametrima
 - Vraćanje JavaScript kôda s varijablama ili već pripremljenog HTML kôda

Ajax – problemi I



- Mnoštvo JavaScripta
 - Potrebno testiranje i manja prilagodba različitim preglednicima
- Integracija s preglednikom Weba  
 - Neprirodna funkcionalnost gumba “Back” i “Refresh”
 - Teško spremanje “trenutne” stranice u Bookmarks/Favorites
- Korisnik ne očekuje promjenu podataka na dijelu stranice niti čekanje na prijenos podataka
 - Potrebna vizualna upozorenja



Ajax – problemi II

- Optimizacija za pretraživače Web stranica
- Isključen JavaScript?
 - Nedostatak funkcionalnosti – *graceful degradation*
 - Mogući **sigurnosni problemi** (npr. validacija?)
- (ne)Pristupačnost Web sjedišta
- Problemi su rješivi 😊

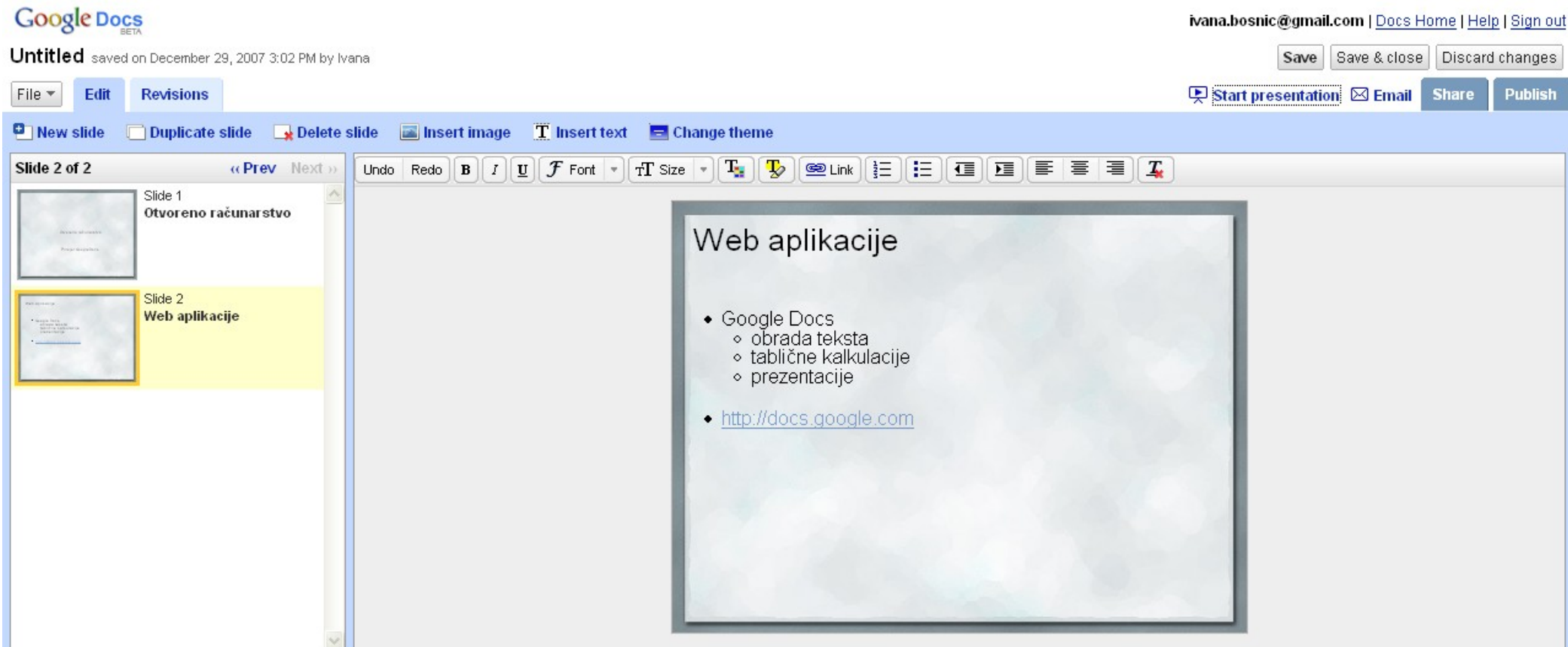
Ajax – problemi III

- XMLHttpRequest iz sigurnosnih razloga ne podržava skriptiranje na različitim domenama (*cross-domain scripting*)
 - Nije dozvoljeno s domene <http://www.fer.hr> uputiti zahtjev
 - niti na <http://ahyco.fer.hr>
 - niti na <http://maps.google.com>
- Različiti načini rješavanja (korištenje drugih metoda)

Web aplikacije (izvorno *desktop*)



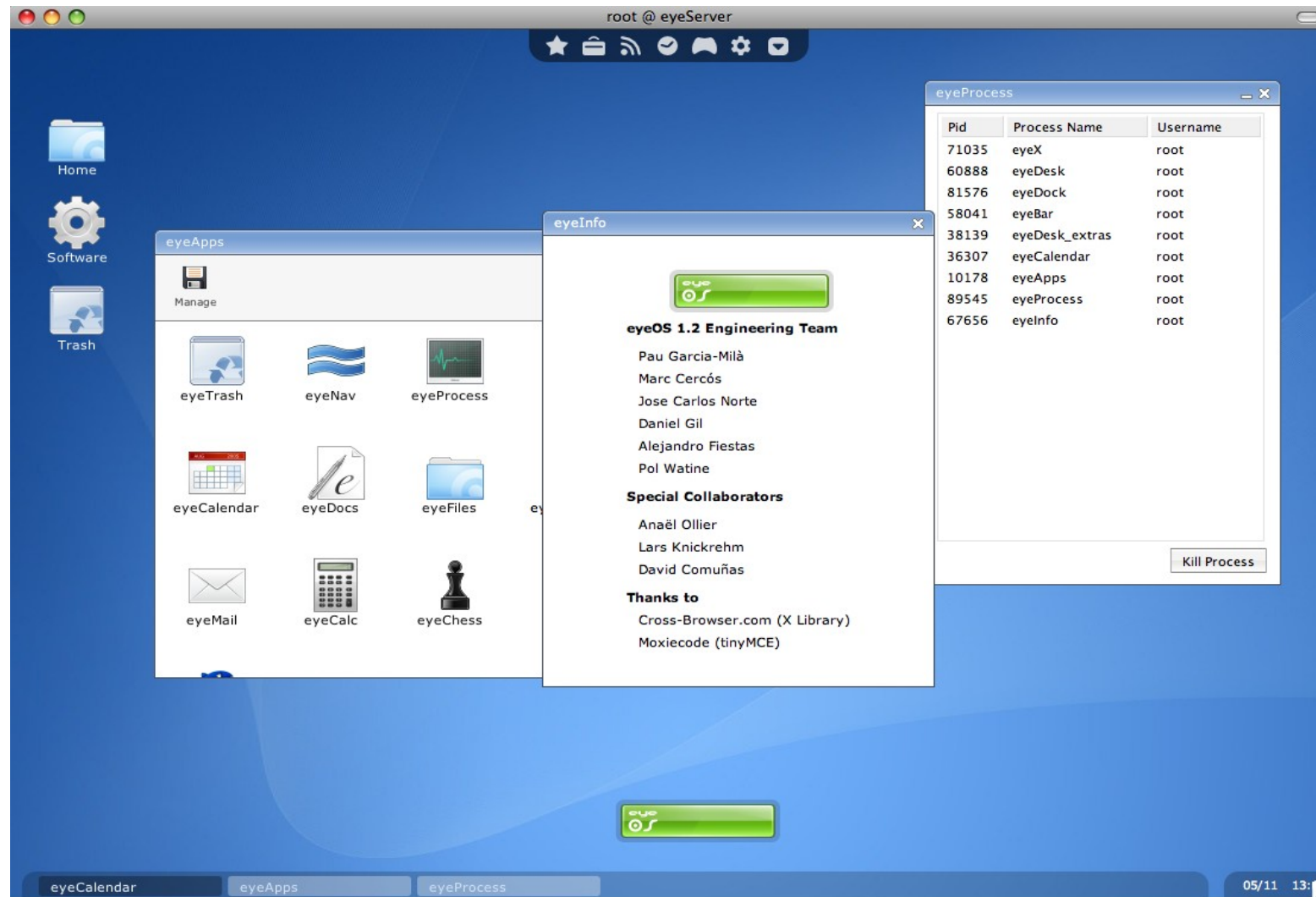
- <http://docs.google.com/>
 - Obrada teksta, tablične kalkulacije, prezentacije



Web "operacijski sustavi"



- <http://eyeos.org/>



RIA tehnologije



- Ajax programska okruženja (*frameworks*)
- OpenLaszlo
- Adobe Flex
- Microsoft Silverlight



Ajax programska okruženja

- *Framework* za bržu izradu Ajax Web aplikacija
- Tipovi:
 - Direktni
 - API-ji koji se direktno koriste iz HTML-a,
 - Komponentni
 - Sadrži unaprijed definirane komponente za klijenta
 - Na strani poslužitelja
 - Komponentni model na strani poslužitelja uz Ajax podršku
- Dojo Toolkit, Prototype, Yahoo! UI Library, ASP.NET Ajax

OpenLaszlo



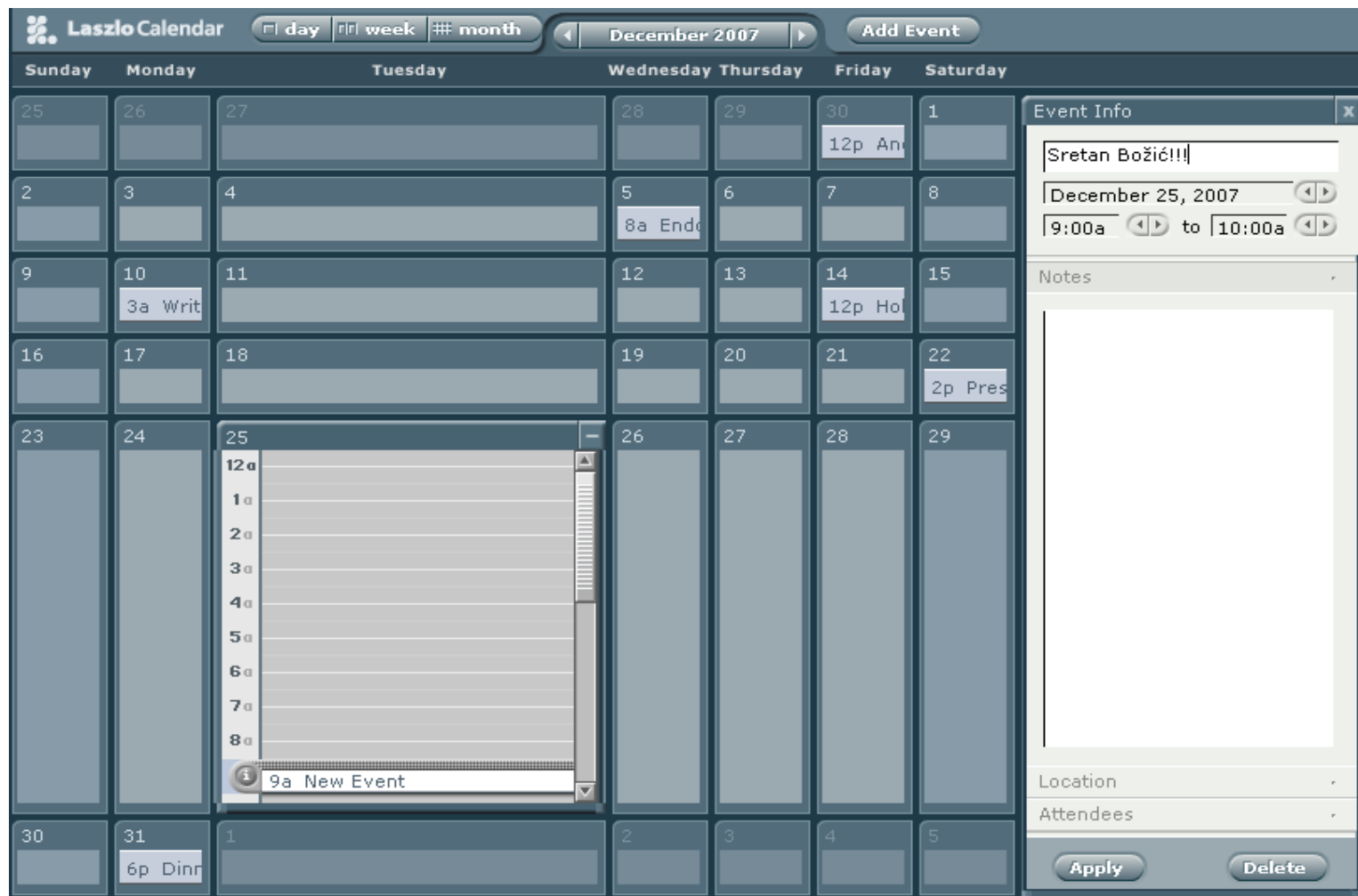
- *Open source* platforma
- Dijelovi:
 - LZX jezik
 - XML + JavaScript
 - OpenLaszlo Server
 - Java Servlet za prevođenje LZX aplikacija u "izvršne" datoteke
- Prevođenje u:
 - **DHTML**
 - Flash



Primjer: OpenLaszlo kalendar



- [http://www.openlaszlo.org/lps4/demos/calendar/ca](http://www.openlaszlo.org/lps4/demos/calendar/calendar/ca)



Adobe Flex



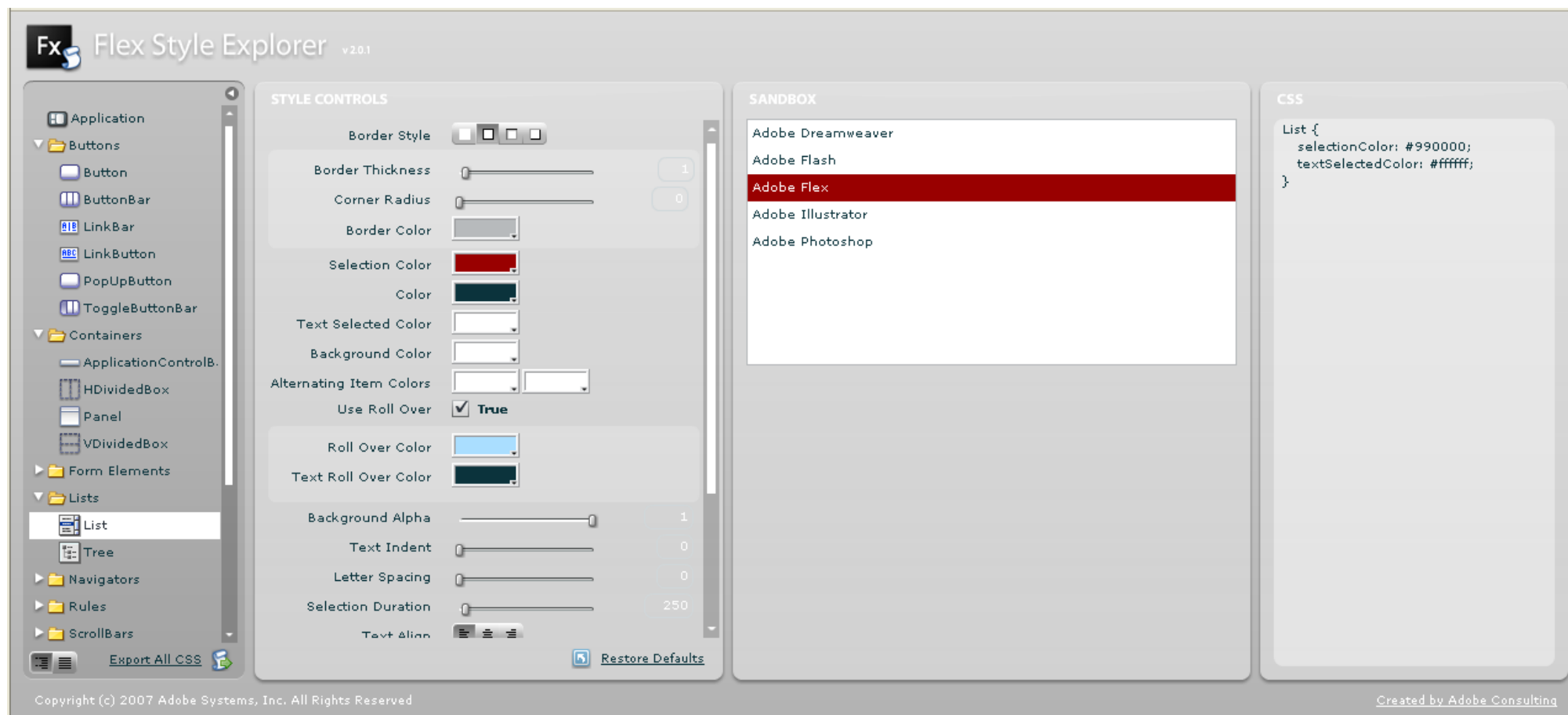
- Platforma temeljena na Adobe proizvodima
- Dijelovi:
 - MXML – XML format za izradu sučelja
 - Adobe Flash – binarni format za prikaz sučelja
 - potreban Flash Player unutar preglednika Web
 - ActionScript (sličan JavaScriptu) – upravljanje elementima na strani preglednika Web
 - Povezivanje s Web poslužiteljem kao izvorom podataka
- Adobe Flex SDK – *Open source*
- Flex Builder IDE – vlasnički i komercijalan



Primjer: Adobe Flex – dizajn GUI-ja



- <http://examples.adobe.com/flex2/consulting/stylee>



Microsoft Silverlight



- Baziran na Microsoft .NET platformi
 - Potreban Silverlight player - dodatak
- Dijelovi:
 - XAML – XML format za izradu sučelja
 - JavaScript, Managed JScript – upravljanje elementima na strani preglednika Web
 - Strana poslužitelja:
 - Silverlight 1.0: dodatak za Visual Studio
 - Silverlight 2.0 (u izradi): bilo koji .NET ili CLI jezik
- Linux podrška: vanjski projekt Moonlight (u izradi)



Primjer: Silverlight Web trgovina



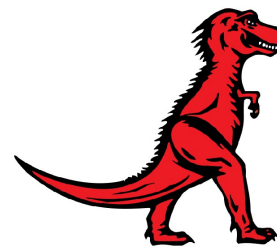
- <http://catalogsample.members.winisp.net/>



Može i obratno... Desktop aplikacije



- Tehnologije za izradu *desktop* aplikacija, temeljene na Web aplikacijama
- Još u *beta* fazi razvoja
- Google Gears
- Adobe Integrated Runtime (AIR)
- Mozilla XULRunner



Kamo dalje?

- Web 2.0 se razvio u drugačijem smjeru od izvorno zamišljenog
- Nitko ne zna kako će završiti
- Ogromna snaga koncepta i tehnologije
- Ograničenja tehnologije postaju sve manje važna
- Način primjene sve važniji!

