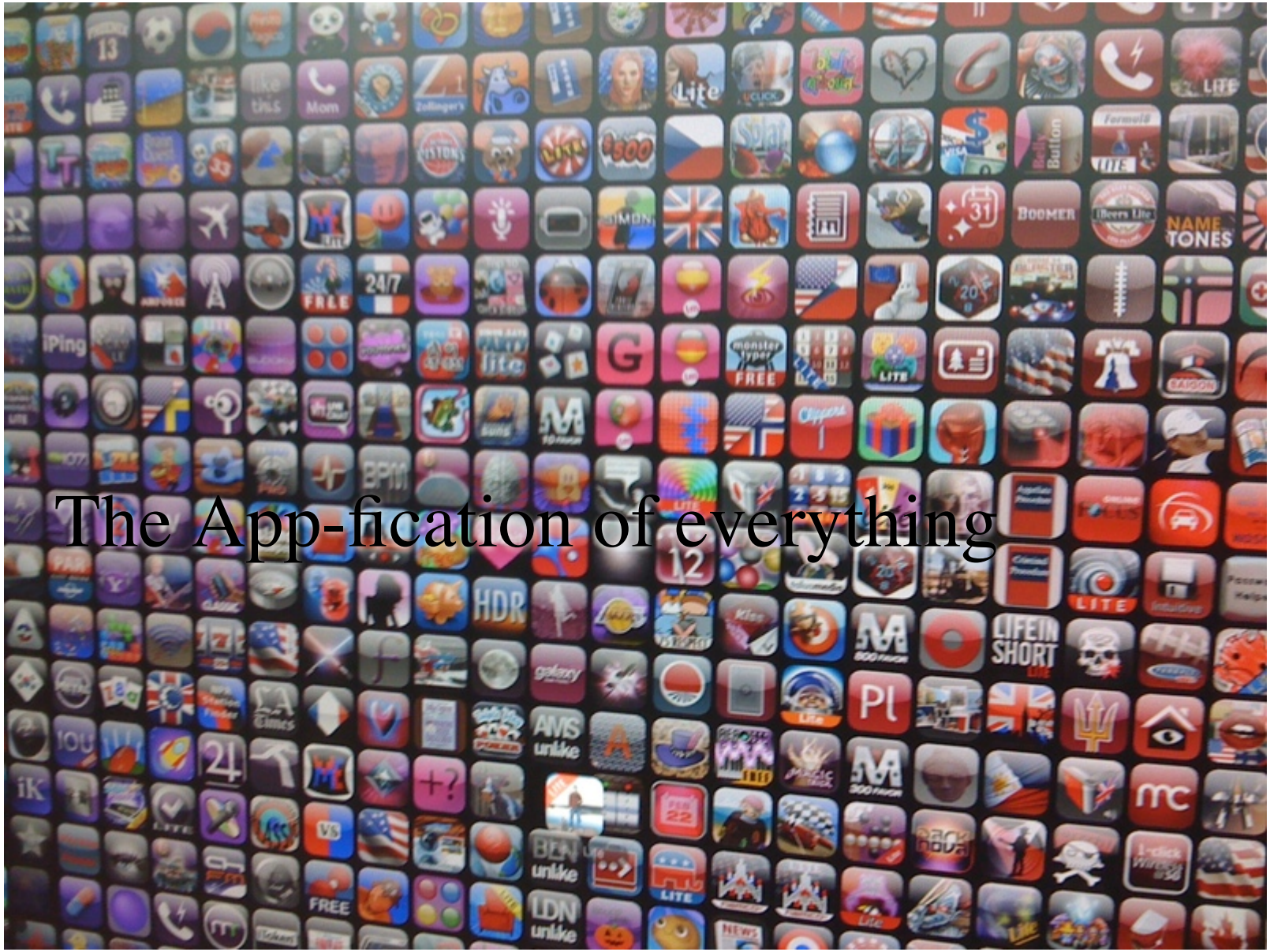
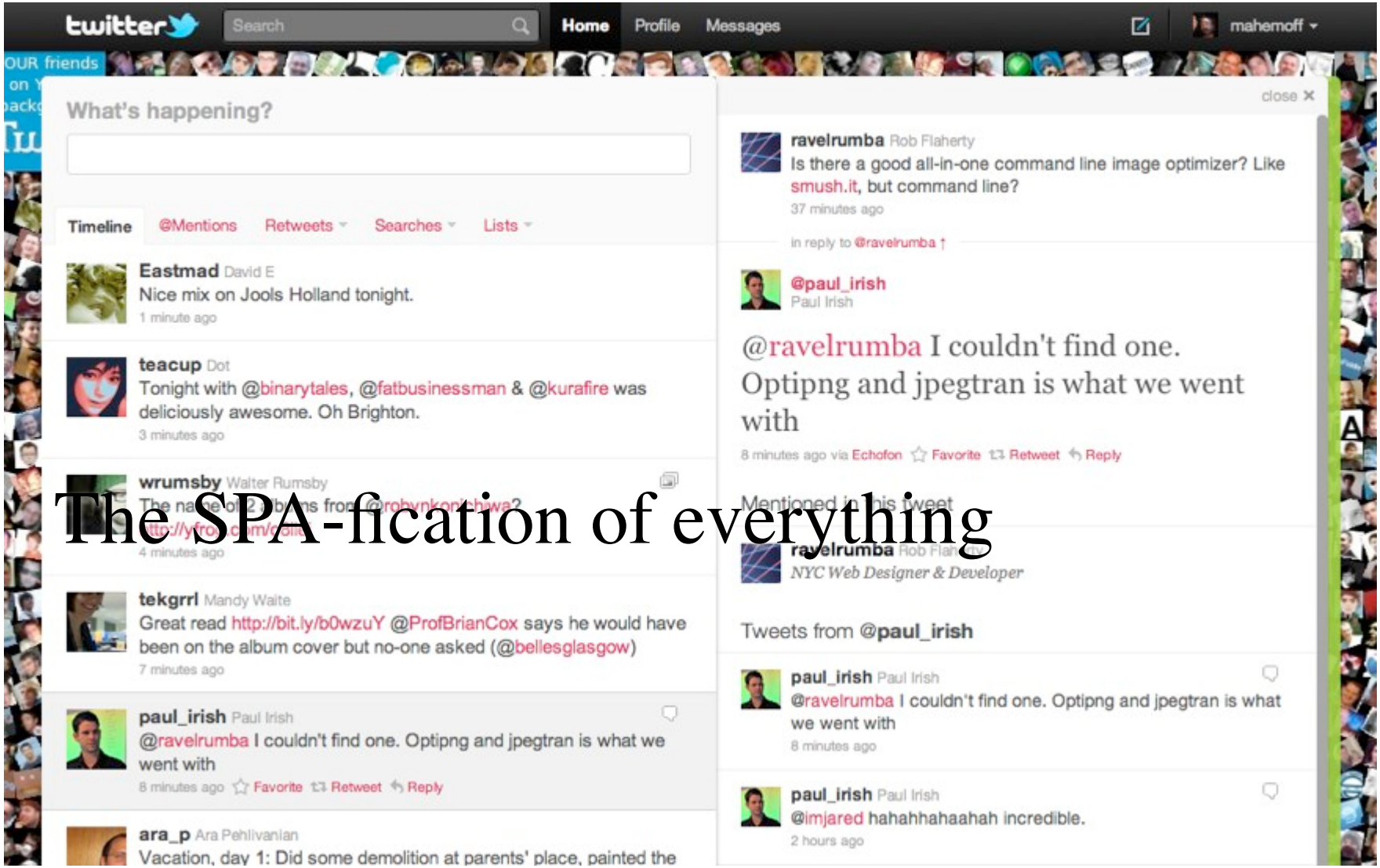
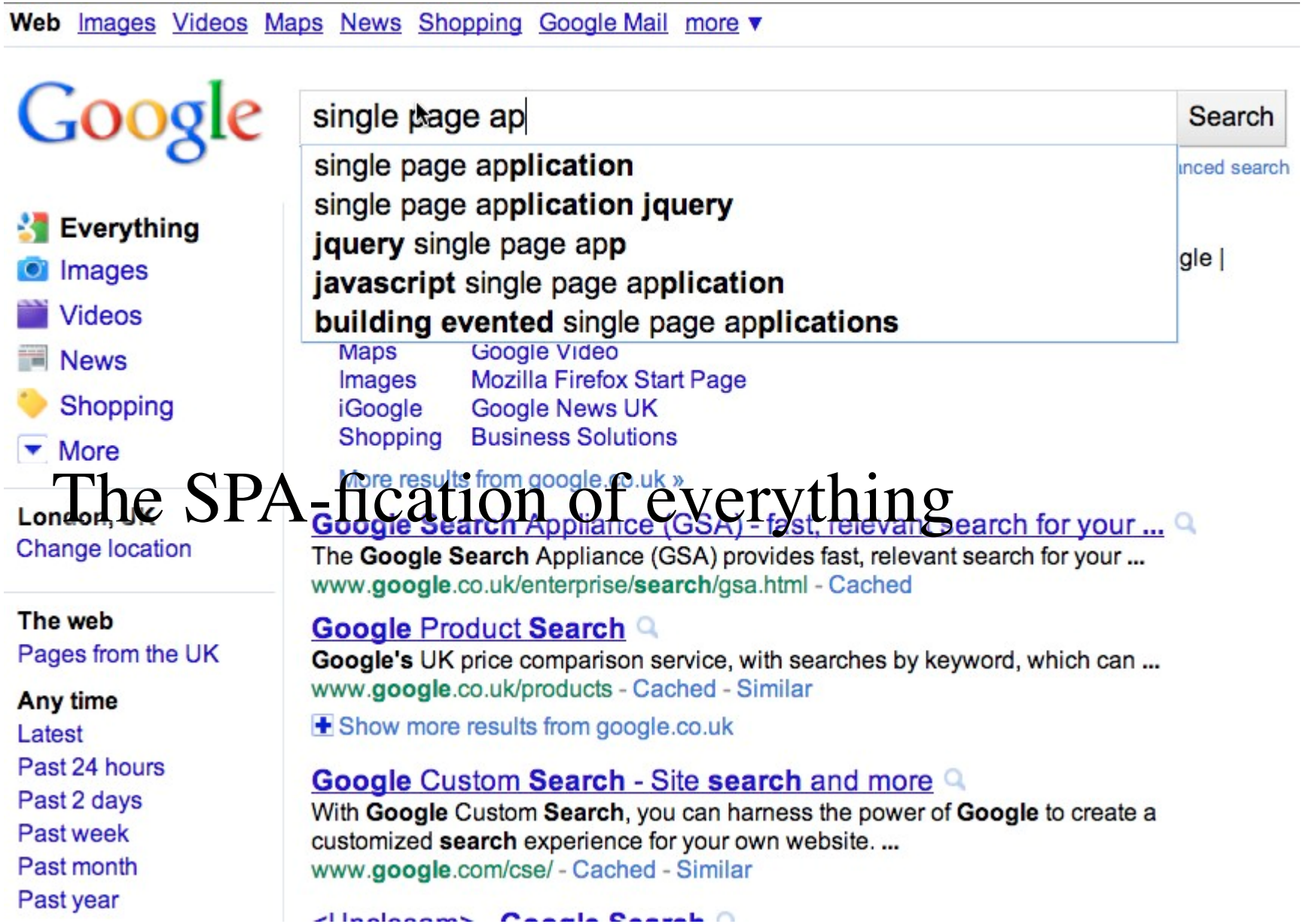
Single Page Apps and the Future of History

Michael Mahemoff


The App-fication of everything



The SPA-fication of everything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Images Mozilla Firefox Start Page
iGoogle Google News UK
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The SPA-fication of everything
Change location
The web
Pages from the UK
Any time
Latest
Past 24 hours
Past 2 days
Past week
Past month
Past year
The Google Search Appliance (GSA) provides fast, relevant search for your ...
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Google Product Search
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Show more results from google.co.uk
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With Google Custom Search, you can harness the power of Google to create a customized search experience for your own website. ...
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SafeSearch

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Past hour
Past 24 hours
Past week
Past month
Archives
Custom range...

Sorted by relevance
Sorted by date

Reset tools

Past 24 hours

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Suggestions:

- Make sure all words are spelled correctly.
- Try different keywords.
- Try more general keywords.

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Ajax Lite Versus Ajax Deluxe

February 16th, 2006 · 4 Comments · HumansAndTech, Links, SoftwareDev ·Edit

Harry Fuecks suggests there are two types of Ajax apps: HTML++ and Client/SOA. This is something I've noticed too, and it cuts right across the Ajax architecture, impacting on the user-interface, the physical architecture (browser-server separation) and the abilities of the developers involved.

Fat Clients

The "Ajax App" pattern addresses this as a decision. It's the root pattern for the entire Ajax Patterns language (Ajax App is not yet on the AjaxPatterns wiki). As you might know, each pattern has a "Decisions" section, identifying the decisions you'll have to make if you go with the pattern. In the case of Ajax App, a big

WebWait

How Long is your WebWait? (Dainty Beta Mode) FAQ @Flickr Ajax Wiki Mahemoff's Blog

Enter website address (e.g. "quizr.com"):

zacklive.com Time It!

zacklive.com

Average load time after 1 runs:

2.73s

Multiple Call Options

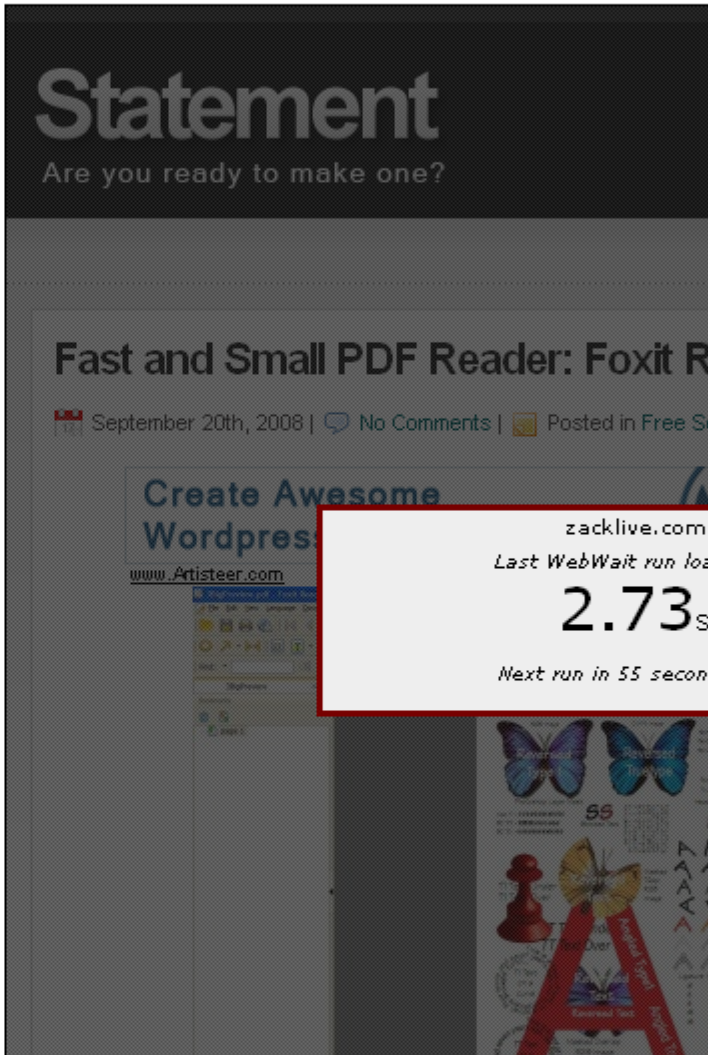
Calls (0=forever): 5

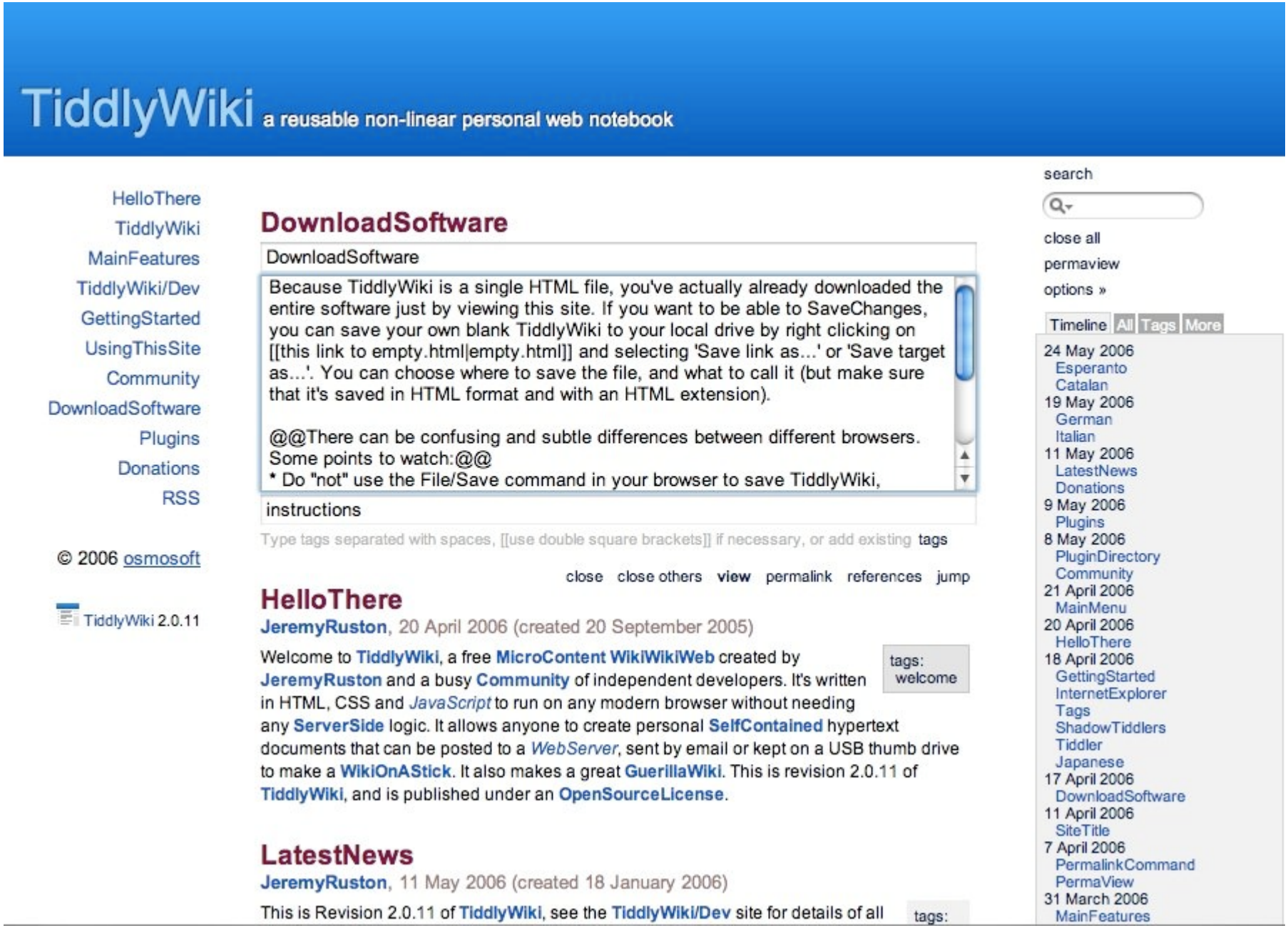
Call Interval (secs): 60

What's WebWait?

- WebWait is a website timer.
- Use WebWait to benchmark your website or test the speed of your web connection.
- Timing is accurate because WebWait pulls down the entire website into your browser, so it takes into account Ajax/Javascript processing and image loading which other tools ignore.

Bookmarklet/Favelet - Add WebWait to your Toolbar




TiddlyWiki a reusable non-linear personal web notebook
HelloThere
TiddlyWiki
MainFeatures
TiddlyWiki/Dev
GettingStarted
UsingThisSite
Community
DownloadSoftware
Plugins
Donations
RSS
© 2006 osmosoft
TiddlyWiki 2.0.11
DownloadSoftware
DownloadSoftware
Because TiddlyWiki is a single HTML file, you've actually already downloaded the entire software just by viewing this site. If you want to be able to SaveChanges, you can save your own blank TiddlyWiki to your local drive by right clicking on [[this link to empty.html|empty.html]] and selecting 'Save link as...' or 'Save target as...'. You can choose where to save the file, and what to call it (but make sure that it's saved in HTML format and with an HTML extension).
@@There can be confusing and subtle differences between different browsers. Some points to watch:@@
* Do "not" use the File/Save command in your browser to save TiddlyWiki,
instructions
Type tags separated with spaces, [[use double square brackets]] if necessary, or add existing tags
close close others view permalink references jump
HelloThere
JeremyRuston, 20 April 2006 (created 20 September 2005)
tags: welcome
Welcome to TiddlyWiki, a free MicroContent WikiWikiWeb created by JeremyRuston and a busy Community of independent developers. It's written in HTML, CSS and JavaScript to run on any modern browser without needing any ServerSide logic. It allows anyone to create personal SelfContained hypertext documents that can be posted to a WebServer, sent by email or kept on a USB thumb drive to make a WikiOnAStick. It also makes a great GuerillaWiki. This is revision 2.0.11 of TiddlyWiki, and is published under an OpenSourceLicense.
LatestNews
JeremyRuston, 11 May 2006 (created 18 January 2006)
This is Revision 2.0.11 of TiddlyWiki, see the TiddlyWiki/Dev site for details of all
tags:
search
close all
permaview
options »
Timeline All Tags More
24 May 2006
Esperanto
Catalan
19 May 2006
German
Italian
11 May 2006
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9 May 2006
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8 May 2006
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PermalinkCommand
PermaView
31 March 2006
MainFeatures

chrome web store

mahemoff@google.com

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Apps
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- **Games**
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- More categories

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App or Not?

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Today's featured article

The **United States Senate election in California, 1950** followed a campaign characterized by accusations and name-calling. Republican Richard Nixon defeated Democrat Helen Gahagan Douglas, after Democratic incumbent Sheridan Downey withdrew during the primary election campaign. Nixon won the Republican primary and Douglas the Democratic contest, with each also finishing third in the other party's contest. A contentious Democratic primary race left the party divided, and Democrats were slow to rally to Douglas—some even endorsed Nixon. The Korean War broke out only days after the primaries, and both Nixon and Douglas contended that the other had often voted with leftist New York Congressman Vito Marcantonio to the detriment of national security. Nixon's attacks were far more effective, and he won the election by almost 20 percentage points, carrying 53 of California's 58 counties and all metropolitan areas. The campaign gave rise to two memorable political nicknames: "the Pink Lady" for Douglas and "Tricky Dick" for Nixon. (**more...**)

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- In baseball, the San Francisco Giants *(MVP Edgar Renteria pictured)* defeat the Texas Rangers to win the **World Series**.
- **Dilma Rousseff** of the Workers' Party is elected Brazil's first female president.
- At least 32 people are injured in a **suicide bombing** in Istanbul, Turkey.
- Archaeologists in **Blombos Cave**, South Africa, disc evidence of early h[Istanbul]using pressure flaking to m stone tools in 73,000 BCE, 55,000 years earlier than previously thought.
- **Tianhe-I**, developed in China, becomes the world's fa supercomputer ahead of the publication of the TOP5

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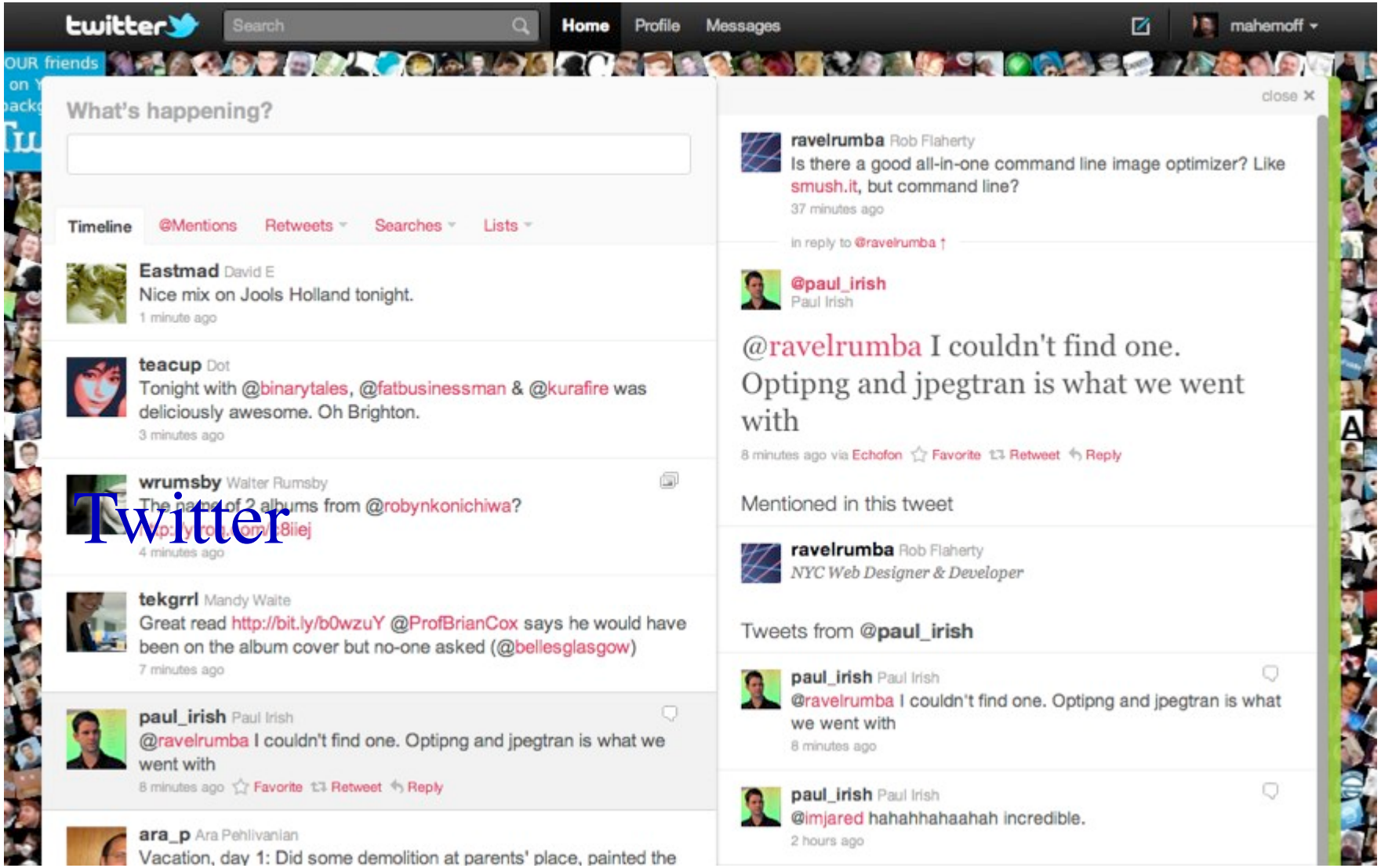
On this day...

November 2: **Election Day** (United States midterm elec 2010); **All Souls' Day** in Western Christianity; **Day of th** in Mexico

Mapnificent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@Mentions
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Eastmad David E
Nice mix on Jools Holland tonight.
1 minute ago
teacup Dot
Tonight with @binarytales, @fatbusinessman & @kurafire was deliciously awesome. Oh Brighton.
3 minutes ago
wrumsby Walter Rumsby
4 minutes ago
tekgrrl Mandy Waite
Great read http://bit.ly/b0wzuY @ProfBrianCox says he would have been on the album cover but no-one asked (@bellesglasgow)
7 minutes ago
paul_irish Paul Irish
@ravelrumba I couldn't find one. Optipng and jpegtran is what we went with
8 minutes ago Favorite Retweet Reply
ara_p Ara Pehlivanian
Vacation, day 1: Did some demolition at parents' place, painted the
close
ravelrumba Rob Flaherty
Is there a good all-in-one command line image optimizer? Like smush.it, but command line?
37 minutes ago
in reply to @ravelrumba
@paul_irish
Paul Irish
@ravelrumba I couldn't find one. Optipng and jpegtran is what we went with
8 minutes ago via Echofon Favorite Retweet Reply
Mentioned in this tweet
ravelrumba Rob Flaherty
NYC Web Designer & Developer
Tweets from @paul_irish
paul_irish Paul Irish
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A wikipedia app?

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Istanbul

en.wikipedia.org/wiki/Istanbul

Offline Articles | English | landscape

Landscape

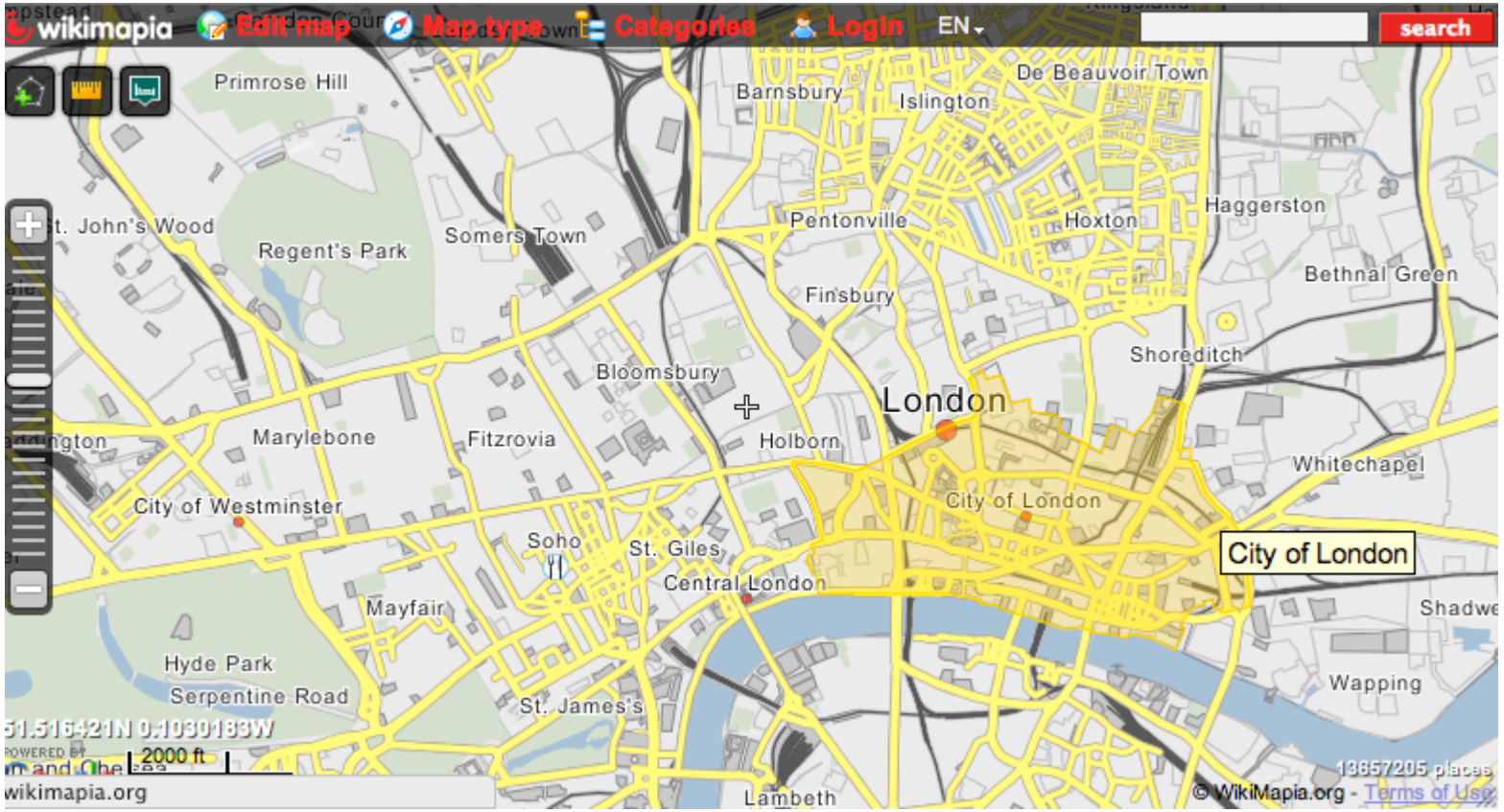
Landscape comprises the visible features of an area of land, including the physical elements of landforms, water bodies such as rivers, lakes and the sea, living elements of land cover including indigenous vegetation, human elements including land uses, buildings and structures, and transitory elements such as lighting and weather conditions.

Landscape photograph of Tolima Colombia

Combining both their physical origins and the cultural overlay of human presence, often created over millennia, landscapes reflect the living synthesis of people and place vital to local and national identity. Landscapes, their character and quality, help define the self image of a region, its sense of place that differentiates it from other regions. It is the dynamic backdrop to people's lives.

Oeschinen Lake in the Swiss Alps, an example of a highly diversified landscape.

The Earth has a vast range of landscapes including the icy landscapes of polar regions, mountainous landscapes, vast arid desert landscapes, islands and coastal landscapes, densely forested or wooded landscapes including vast boreal forests and tropical rainforests, and agricultural landscapes of temperate and tropical re-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Finsbury
Shoreditch
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Holborn
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Marylebone
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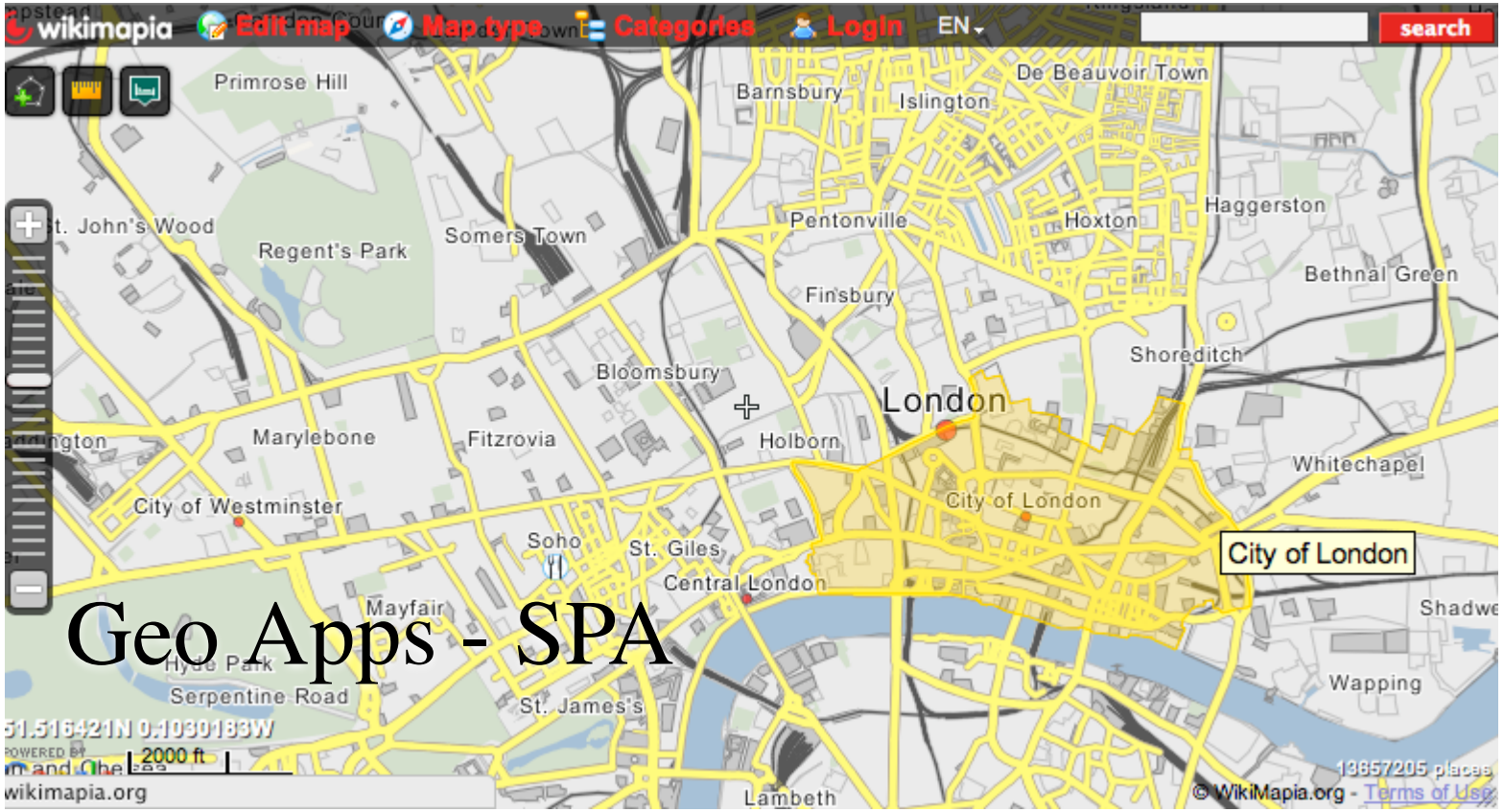
It's easy!
1. You're given a start Wikipedia article, like "Banana"
2. And a winning article, like "Britney Spears"
3. Now click as few links as possible to get from "Banana" to "Britney Spears", as fast as you can!

Reader Apps - SPA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Geo Apps - SPA

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You are looking for:
Tokyo
Tokyo at wikipedia.org
4 seconds left in the current game.
How to play Wikipedia Game
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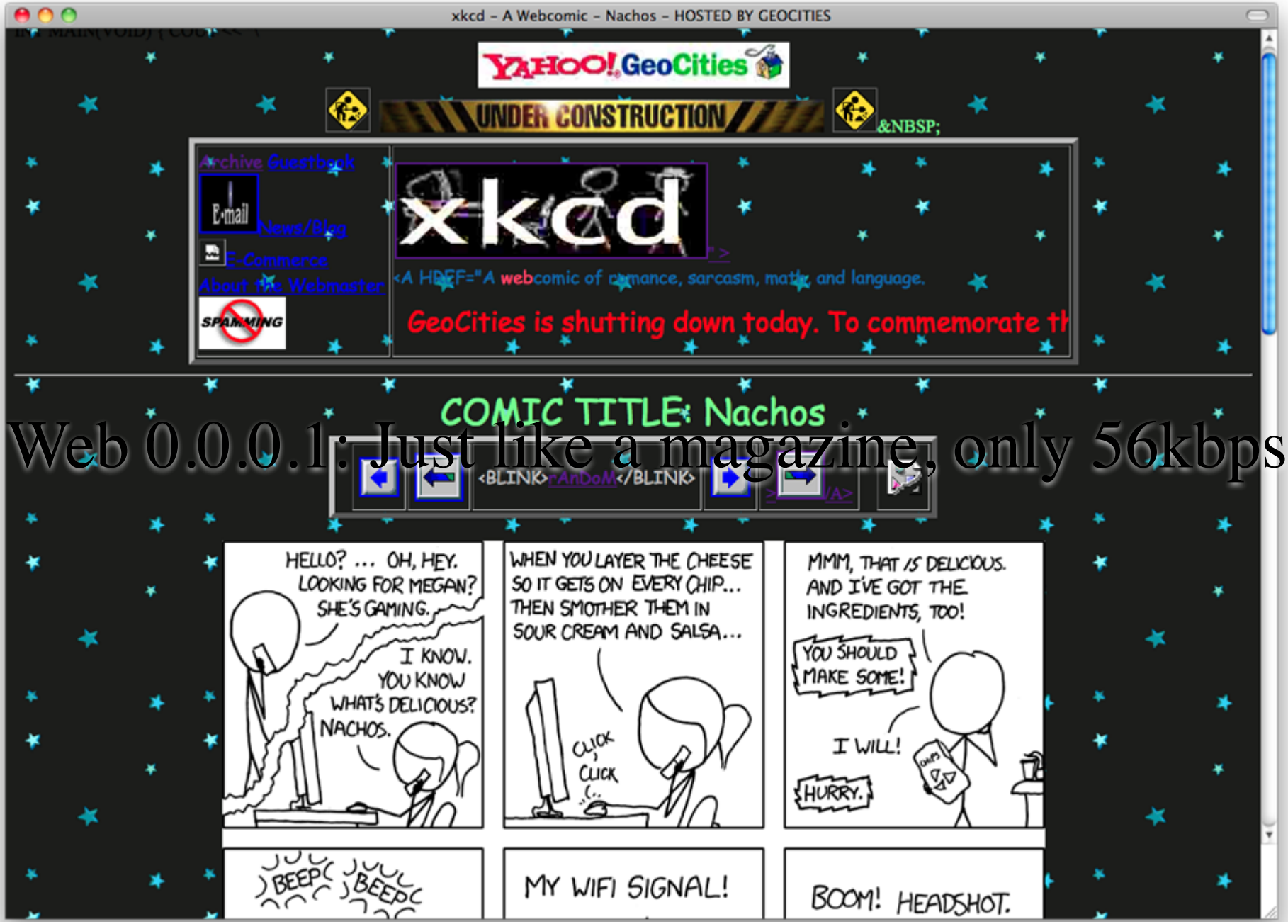
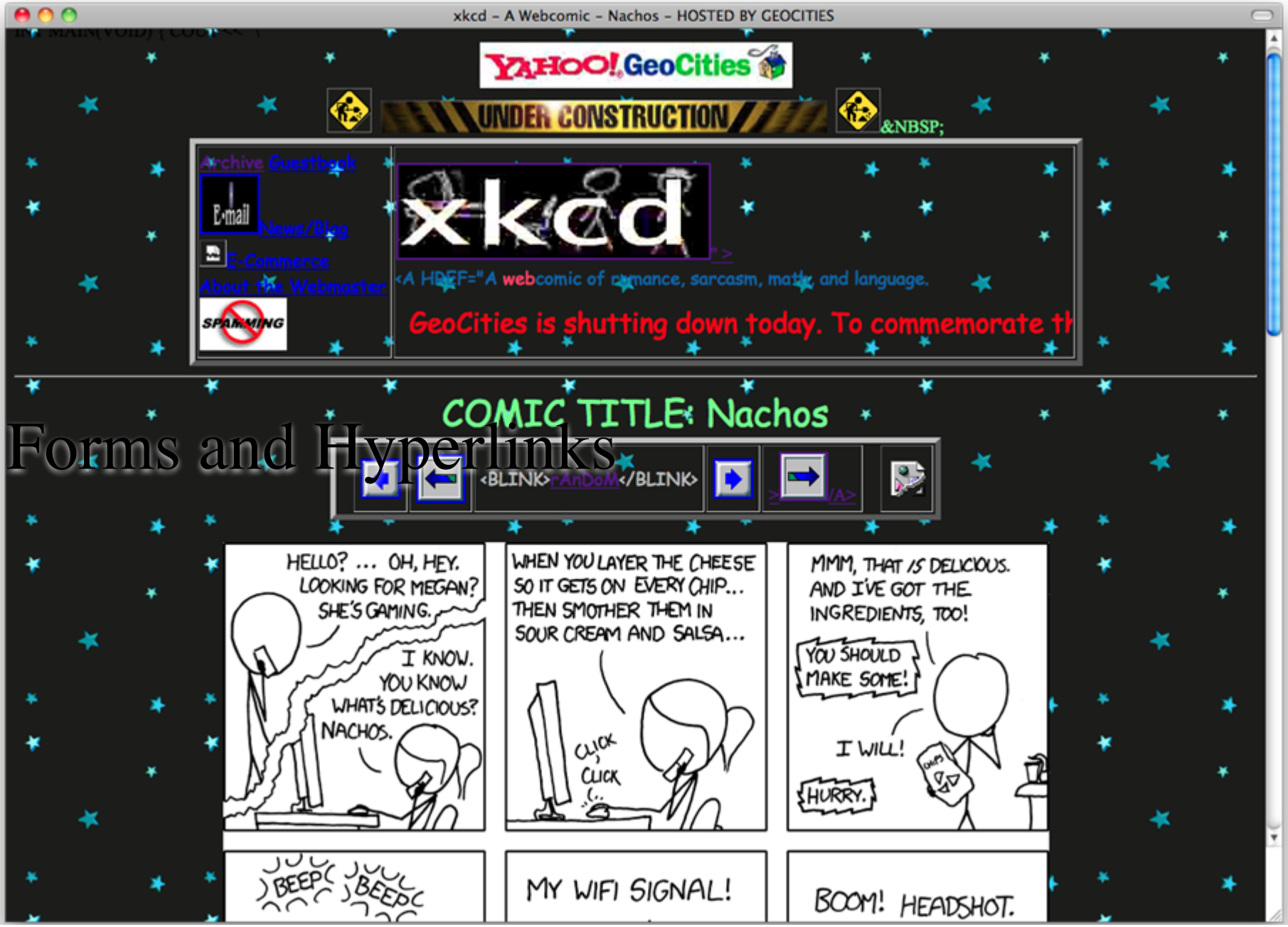
1. You're given a start Wikipedia article, like "Banana"
2. And a winning article, like "Britney Spears"
3. Now click as few links as possible to get from "Banana" to "Britney Spears", as fast as you can!

Games - SPA

So, how *did* we get here?



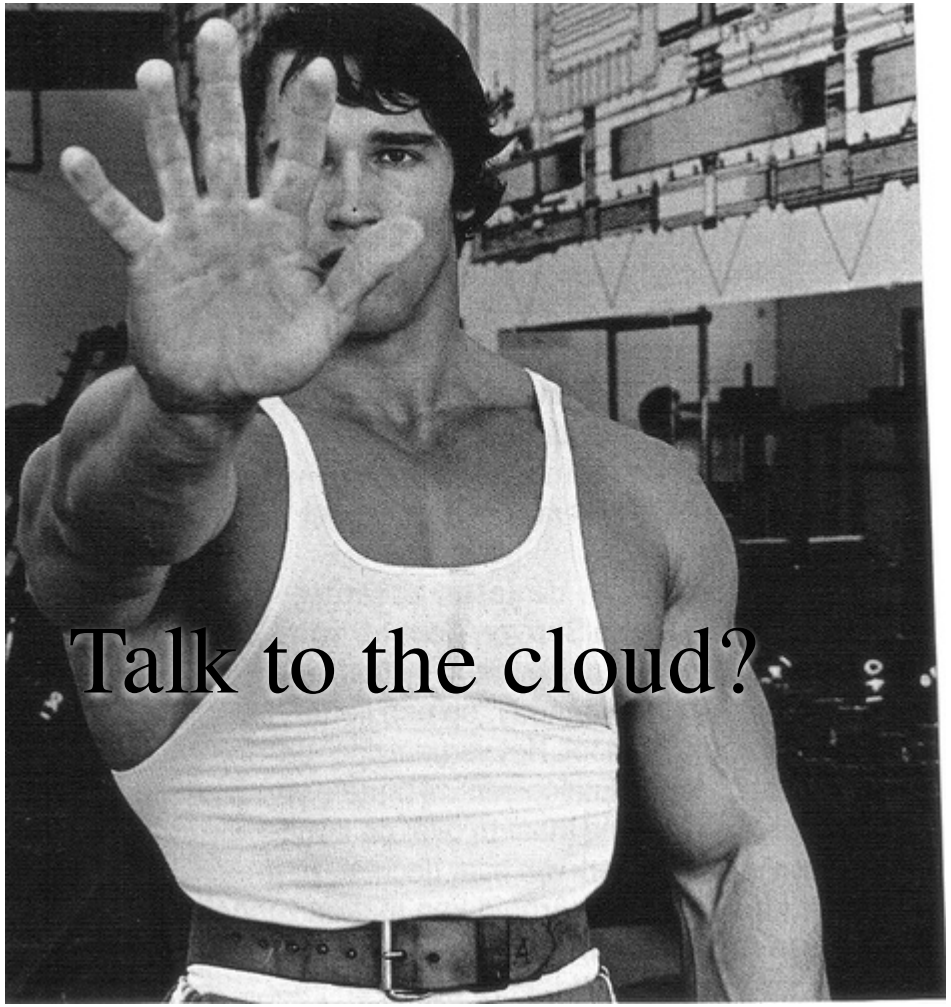
Web 0.0.0.1: Just like a magazine, only 56kbps!

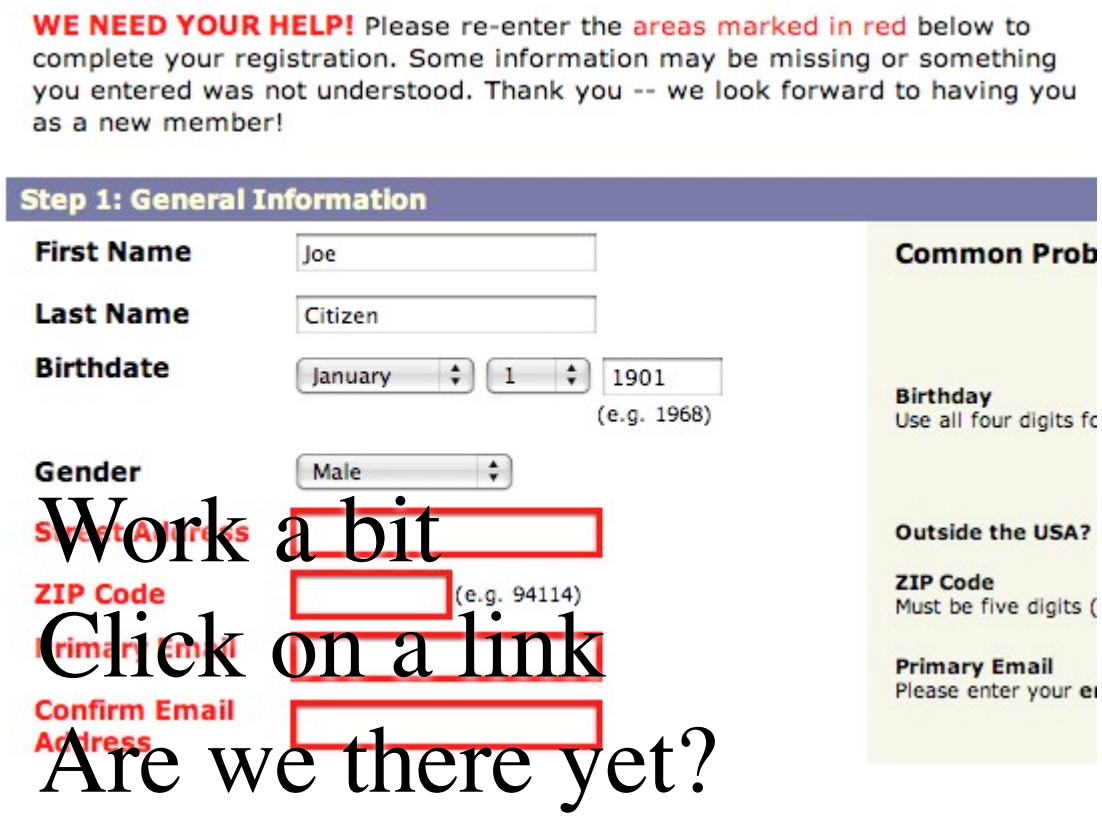


Forms and Hyperlinks

HotMail: A 1997 Web App

The Dancing Bears of Web 1.0


Talk to the cloud?


WE NEED YOUR HELP! Please re-enter the areas marked in red below to complete your registration. Some information may be missing or something you entered was not understood. Thank you -- we look forward to having you as a new member!
Step 1: General Information
First Name
Joe
Last Name
Citizen
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Gender
Male
ZIP Code
(e.g. 94114)
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Must be five digits (
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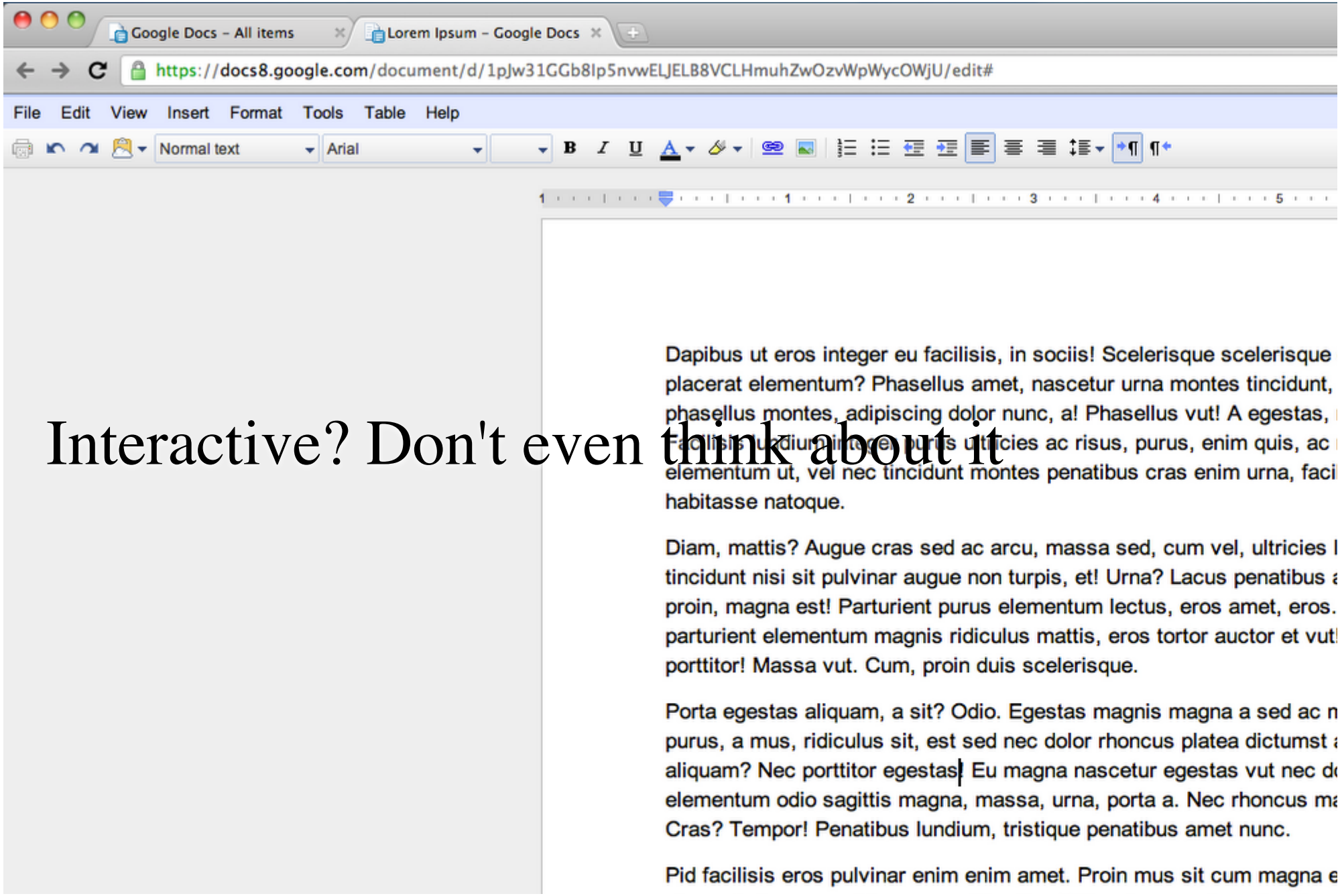
Are we there yet?



Interactive? Don't even think about it

Lorem ipsum

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kate

jeff

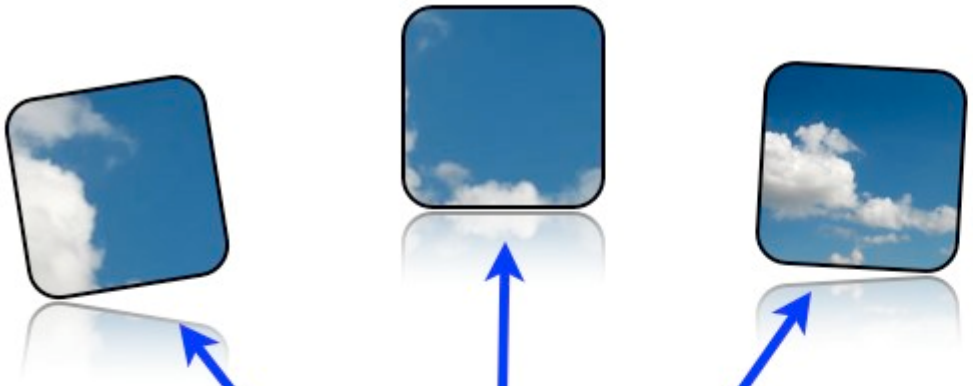
No really.

A New Architecture for Web Apps

→ Asynchronous ←

The Network Happens

The UI Happens



Authentication
Data persistence
Business logic

The Network Happens

Clean architecture

HTML/CSS/JavaScript
User interaction

Less data

The Network Happens

The UI Happens

Mobile: Save bandwidth

jQuery UI Mobile Meetups Forum Events About Donate

jQuery mobile framework

Strategy Platforms Designs Community Blog

NOW UNDER DEVELOPMENT FOR LATE 2010

jQuery Mobile: Touch-Optimized Web Framework for Smartphones & Tablets

A unified user interface system across all popular mobile device platforms, built on the rock-solid jQuery and jQuery UI foundation. Its lightweight code is built with progressive enhancement, and has a flexible, easily themeable design. Project strategy

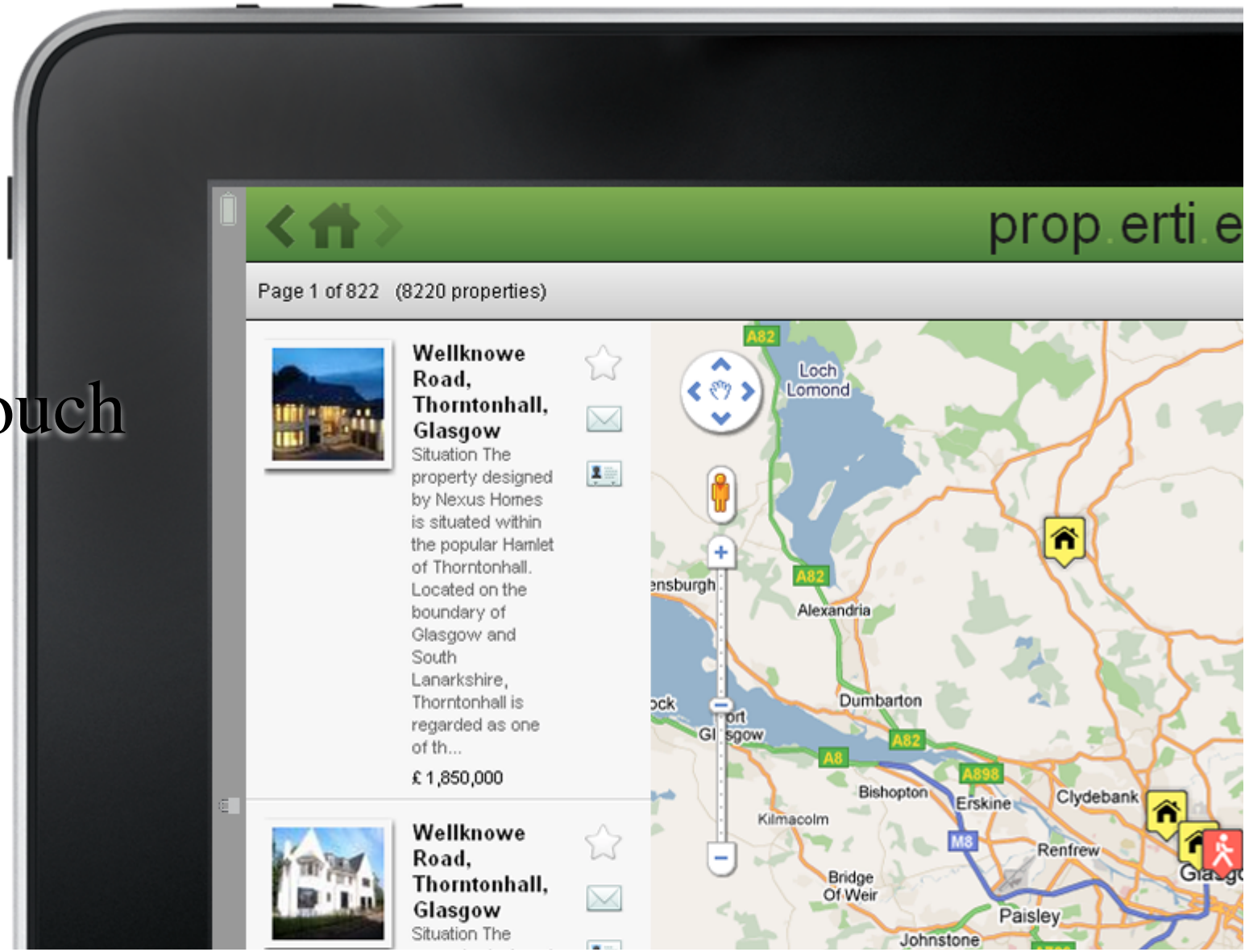
Project Goals and Strategy

Seriously cross-platform & cross-device

jQuery mobile framework takes the "write less, do more" mantra to the next level: Instead of writing unique apps for each mobile device or OS, the jQuery mobile framework will allow you to design a single highly branded and customized web application that will work on all popular smartphone and tablet platforms.

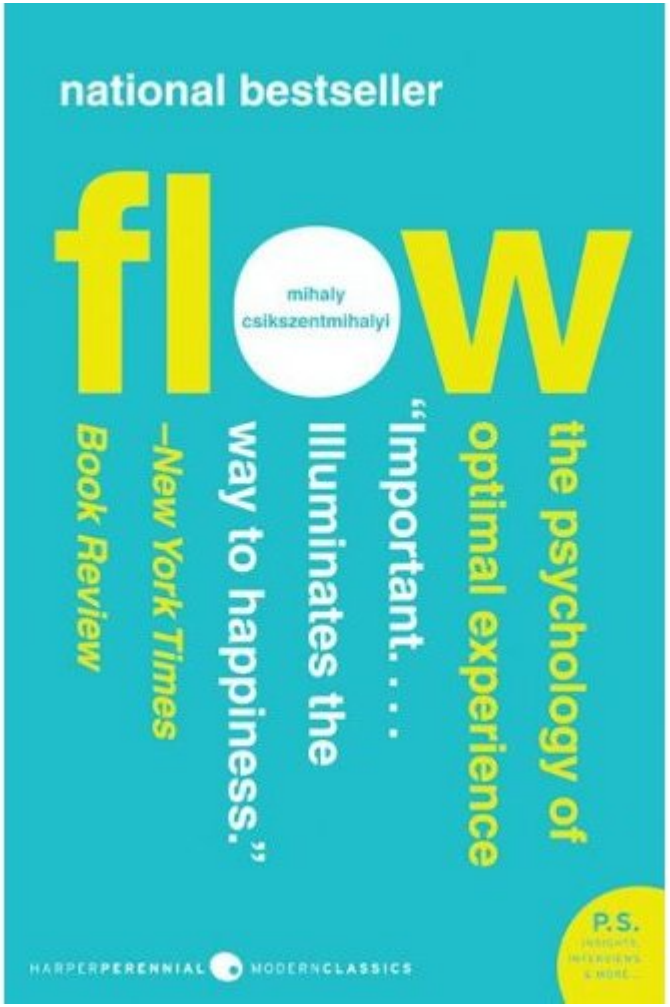
Device support grid

Sencha Touch



Offline-friendly

The biggest reason
UX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"Important. . . . Illuminates the way to happiness."
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PLEASE
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More SPA!

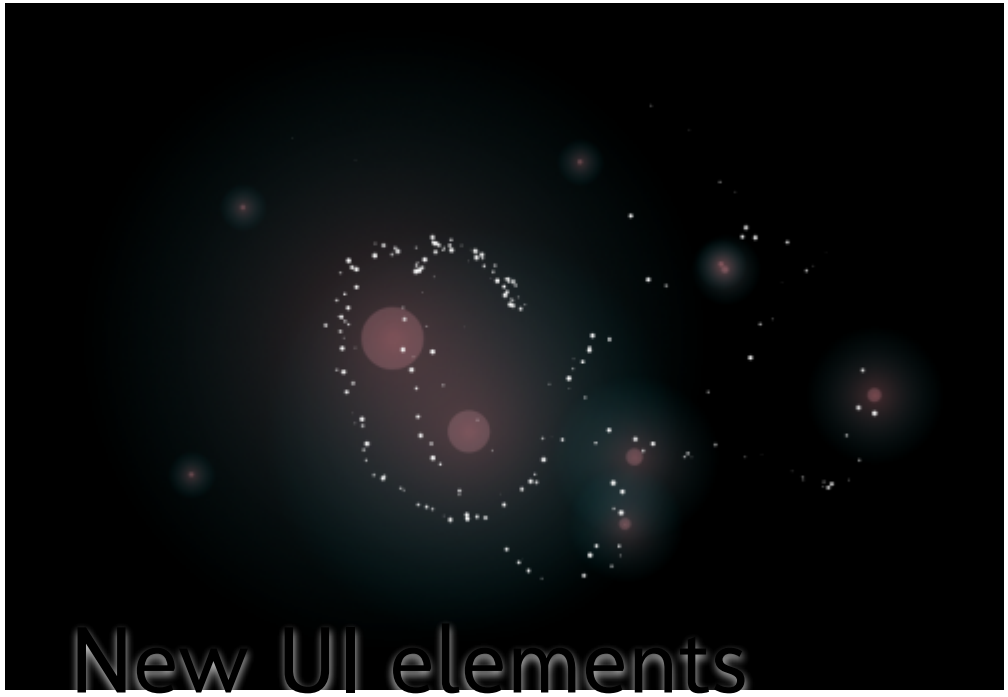
Less Refresh!

The UI Happens

Grokking the DOM

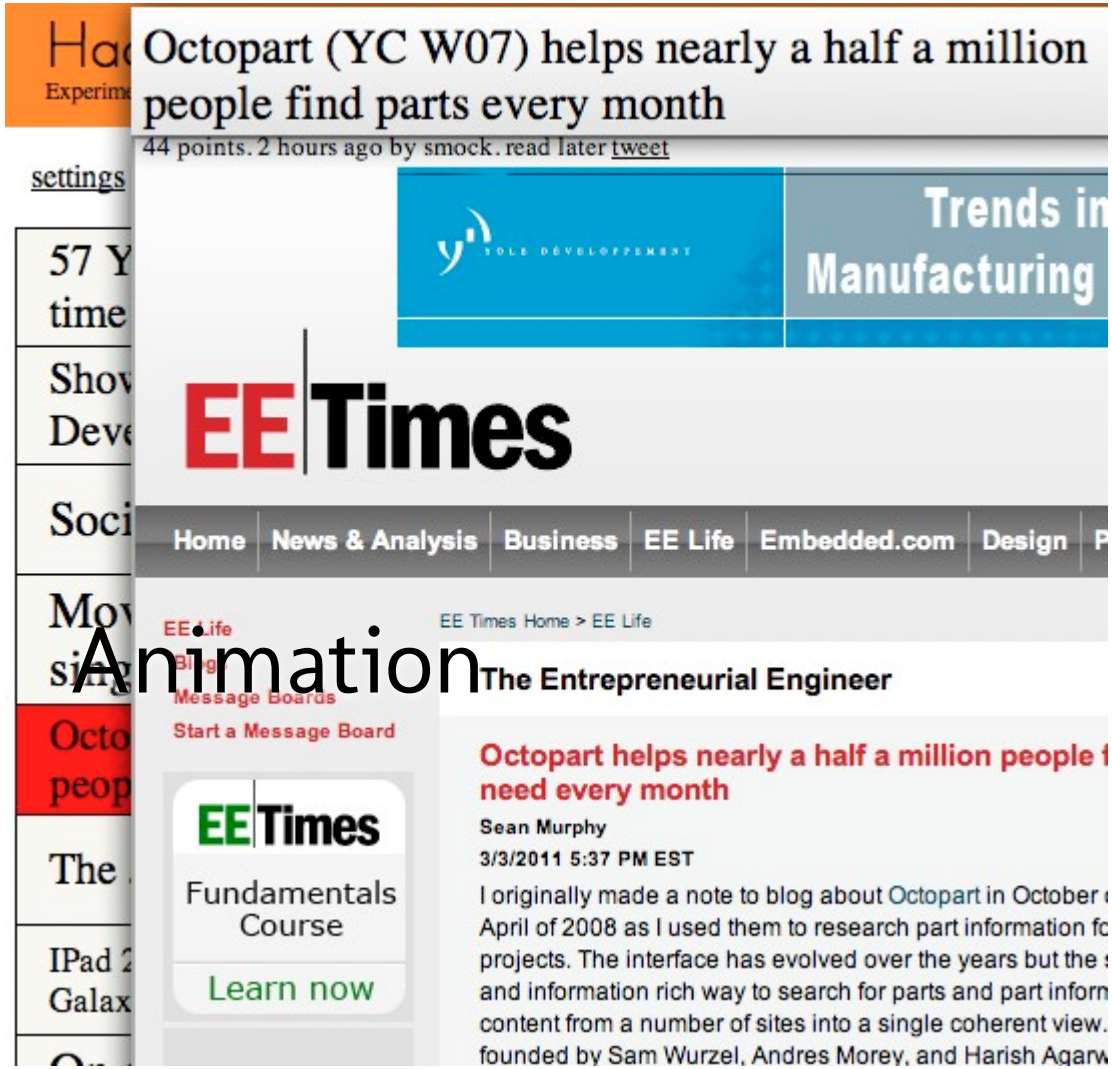
Business Logic

Revealing conten


New UI elements

Styling

Layering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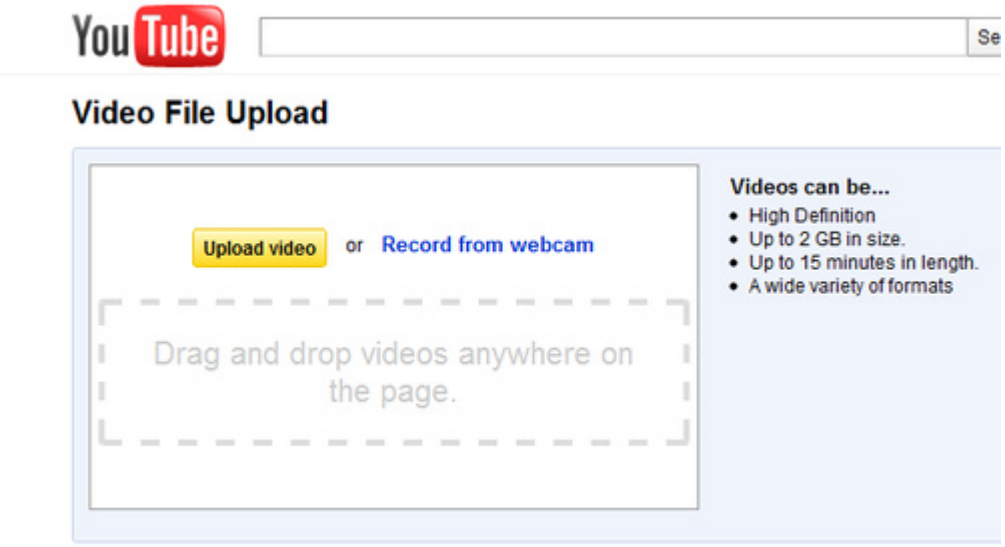
Business
EE Life
Embedded.com
Design
EE Times Home > EE Life
The Entrepreneurial Engineer
Octopart helps nearly a half a million people
need every month
Sean Murphy
3/3/2011 5:37 PM EST
I originally made a note to blog about Octopart in October
April of 2008 as I used them to research part information fo
projects. The interface has evolved over the years but the
and information rich way to search for parts and part inform
content from a number of sites into a single coherent view.
founded by Sam Wurzel, Andres Morey, and Harish Agarw
Start a Message Board
EE Times
Fundamentals Course
Learn now
settings

Animation

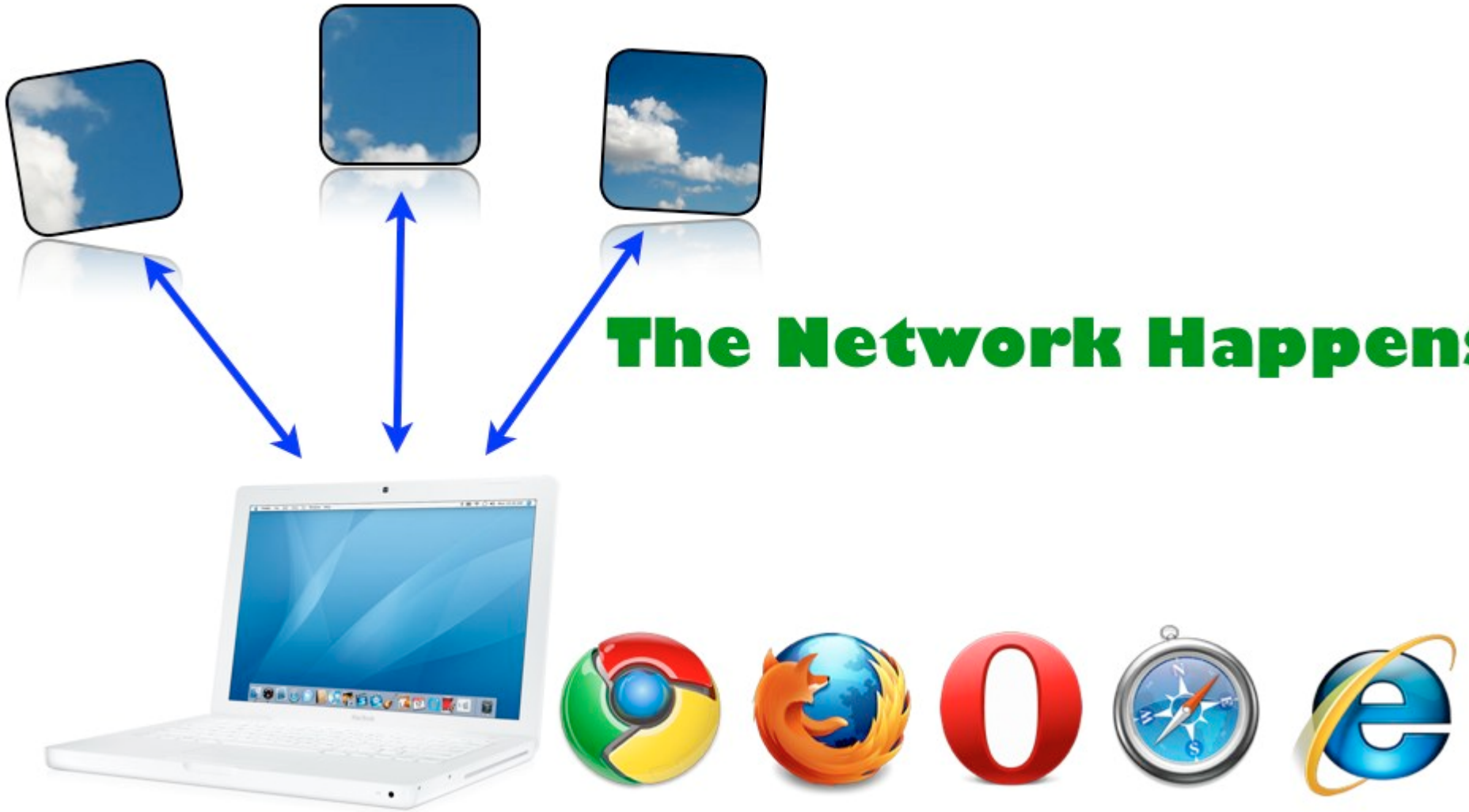


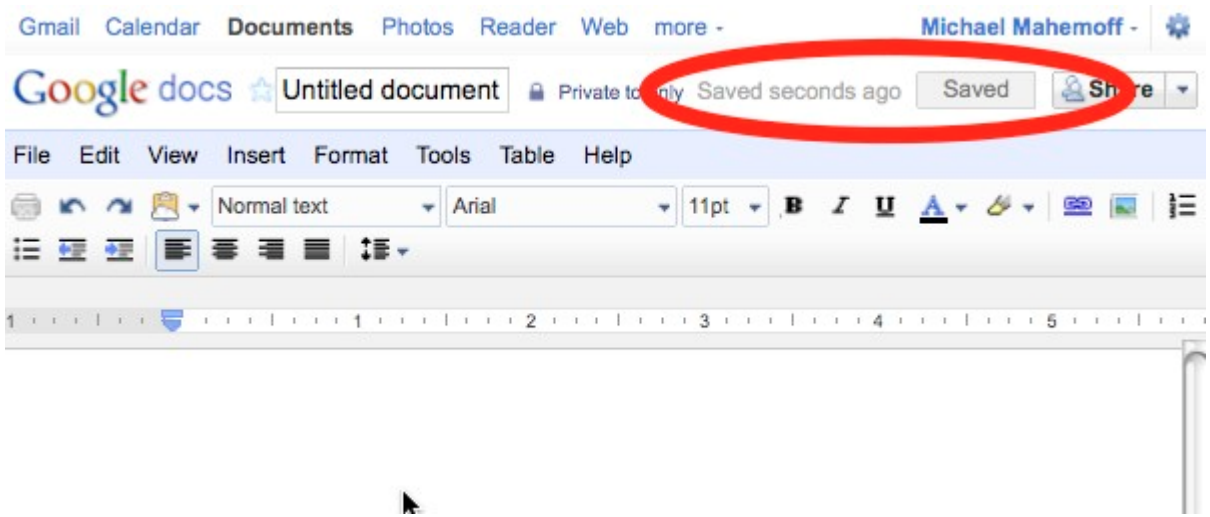
Drag-Drop File APIs

Better browsers → less memory leaks

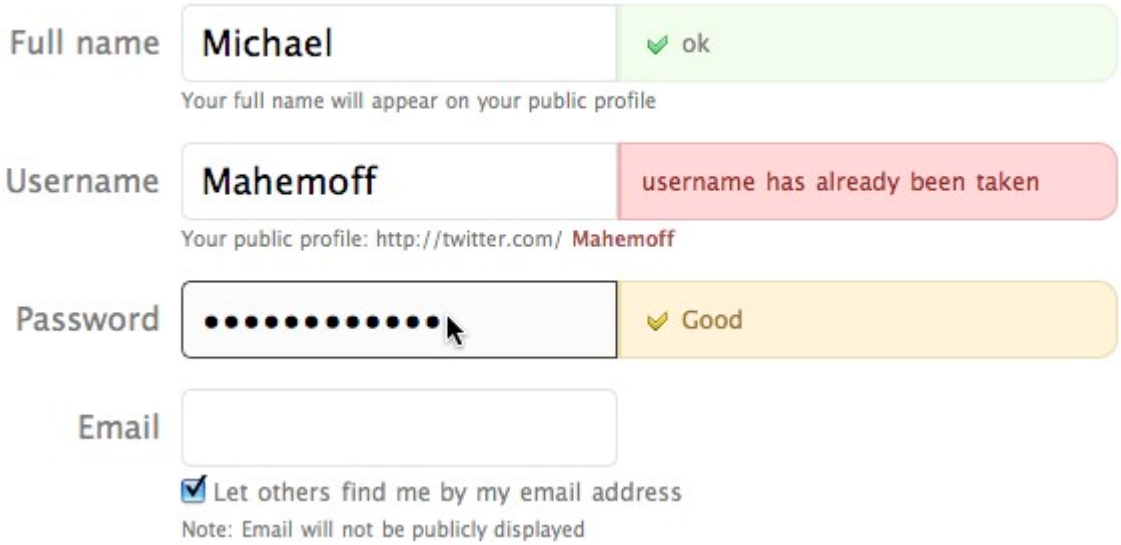
Application Cache

Client Side Storage

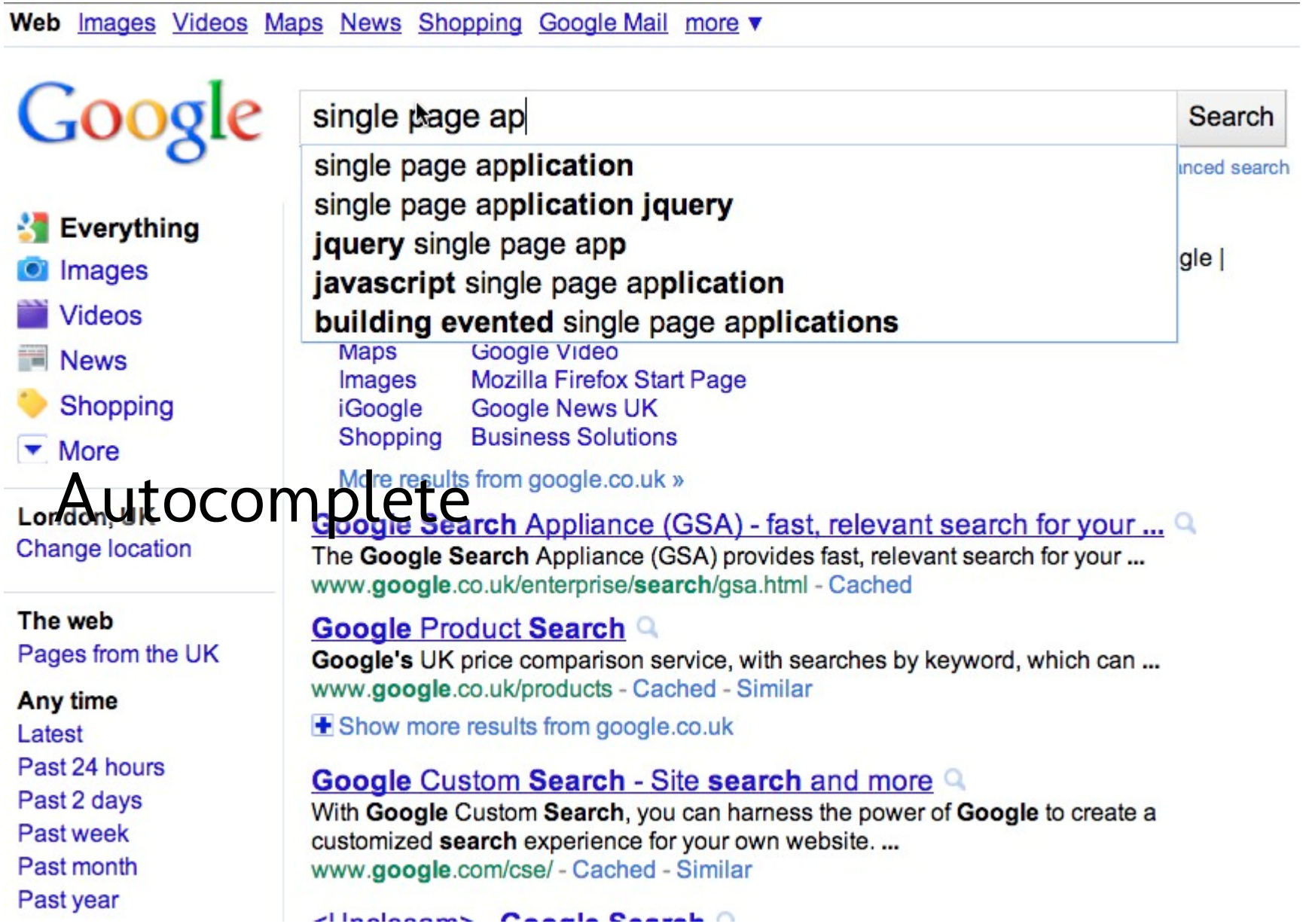

The Network Happens

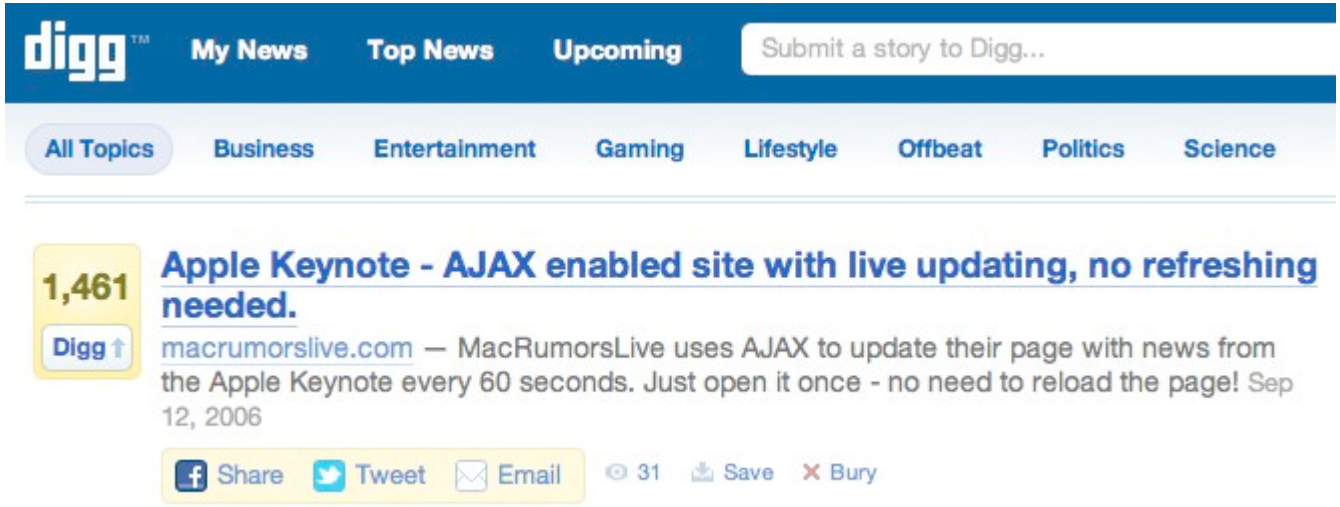

Gmail Calendar Documents Photos Reader Web more - Michael Mahemoff -
Google docs Untitled document Private to only Saved seconds ago Saved Share
File Edit View Insert Format Tools Table Help
Normal text Arial 11pt

Auto-Saving

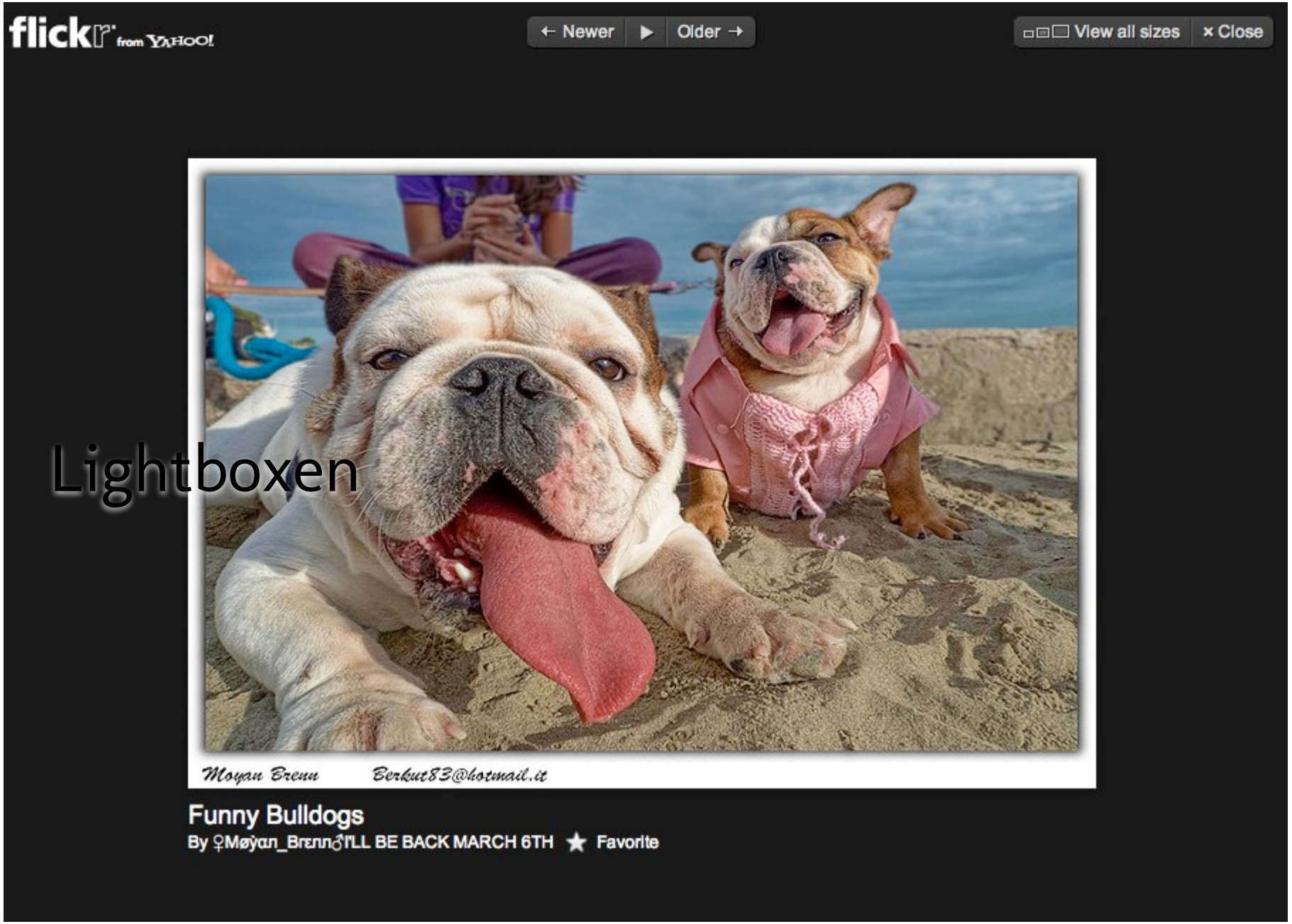


Server queries

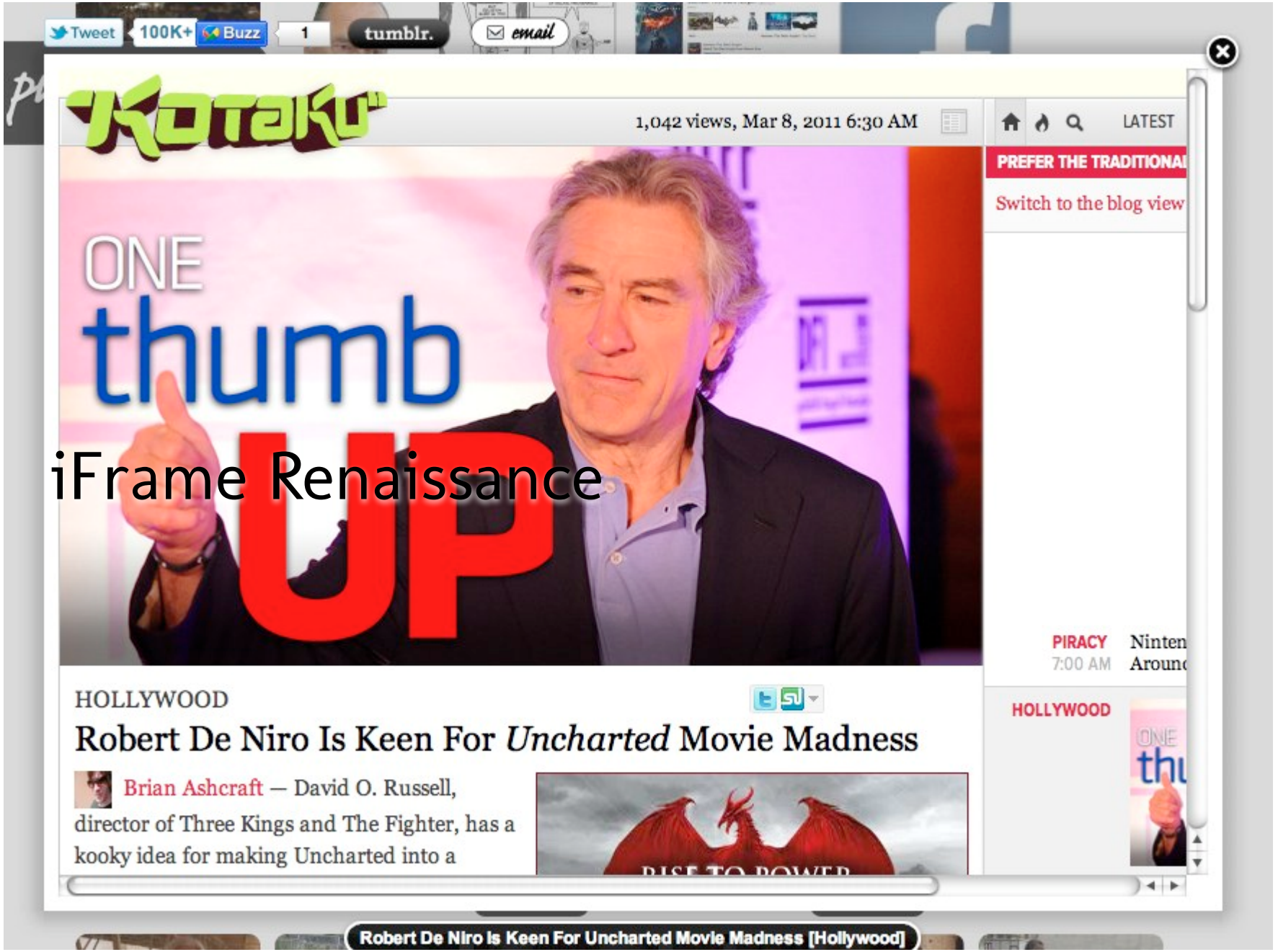

Web Images Videos Maps News Shopping Google Mail more ▼
Google
single page ap
Search
single page application
single page application jquery
jquery single page app
javascript single page application
building evented single page applications
Everything
Images
Videos
News
Shopping
More
Maps Google Video
Images Mozilla Firefox Start Page
iGoogle Google News UK
Shopping Business Solutions
More results from google.co.uk »
Autocomplete
Change location
The web
Pages from the UK
Any time
Latest
Past 24 hours
Past 2 days
Past week
Past month
Past year
Google Search Appliance (GSA) - fast, relevant search for your ...
The Google Search Appliance (GSA) provides fast, relevant search for your ...
www.google.co.uk/enterprise/search/gsa.html - Cached
Google Product Search
Google's UK price comparison service, with searches by keyword, which can ...
www.google.co.uk/products - Cached - Similar
Show more results from google.co.uk
Google Custom Search - Site search and more
With Google Custom Search, you can harness the power of Google to create a customized search experience for your own website. ...
www.google.com/cse/ - Cached - Similar

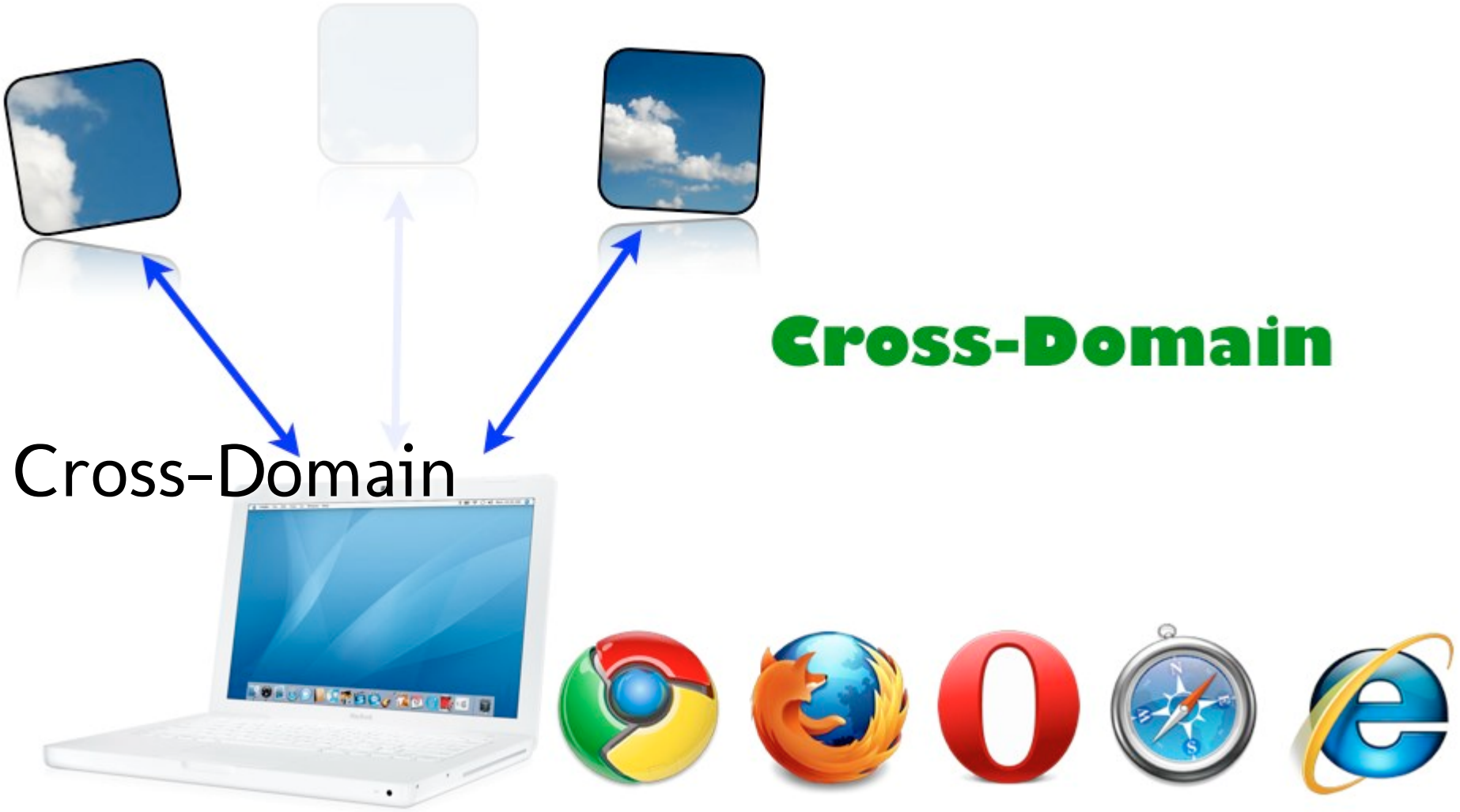


Auto-Refresh


flickr from YAHOO!
← Newer
Older →
View all sizes
× Close
Moyan Brenn
Berkut83@hotmail.it
Funny Bulldogs
By ♀Møỳαɲ_Bɾεɲɲ♂I'LL BE BACK MARCH 6TH
Favorite

Lightboxen


Tweet
100K+
Buzz
1
tumblr.
email
KOTAKU
1,042 views, Mar 8, 2011 6:30 AM
LATEST
PREFER THE TRADITIONAL
Switch to the blog view
ONE
thumb
UP
iFrame Renaissance
PIRACY
7:00 AM
HOLLYWOOD
HOLLYWOOD
Robert De Niro Is Keen For Uncharted Movie Madness
Brian Ashcraft — David O. Russell, director of Three Kings and The Fighter, has a kooky idea for making Uncharted into a
Robert De Niro Is Keen For Uncharted Movie Madness [Hollywood]

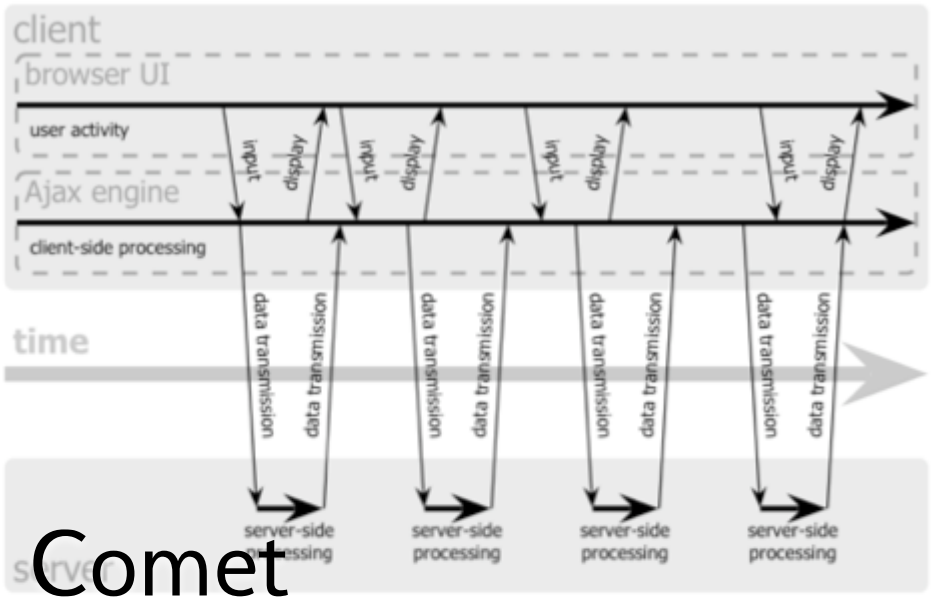

Cross-Domain
Cross-Domain

http://api.geonames.org/findNearByWeatherJSON?lat=51&lng=0&username=demo&callback=onweather

JSONP

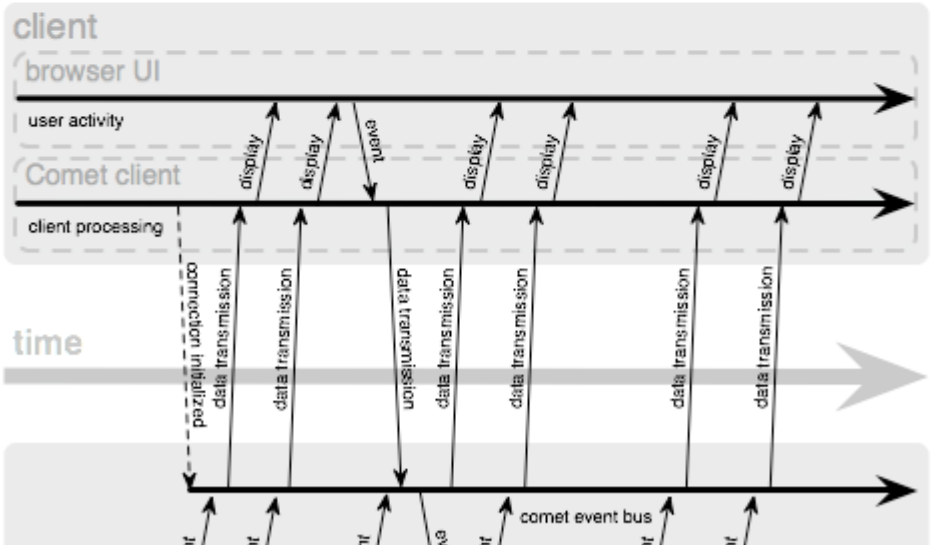
onweather({"weatherObservation":
{"clouds":"n/a","weatherCondition":"n/a","observation":"EGKK
021320Z 04016KT 020V110 6000 NSC 07/01
Q1034","windDirection":40,"ICAO":"EGKK","elevation":62,"countryCod
/ Gatwick Airport","datetime":"2011-03-02
13:20:00","lat":51.13333333333333,"hectoPascAltimeter":1034}});

Ajax web application model (asynchronous)



Comet

Comet web application model



~~Easy~~

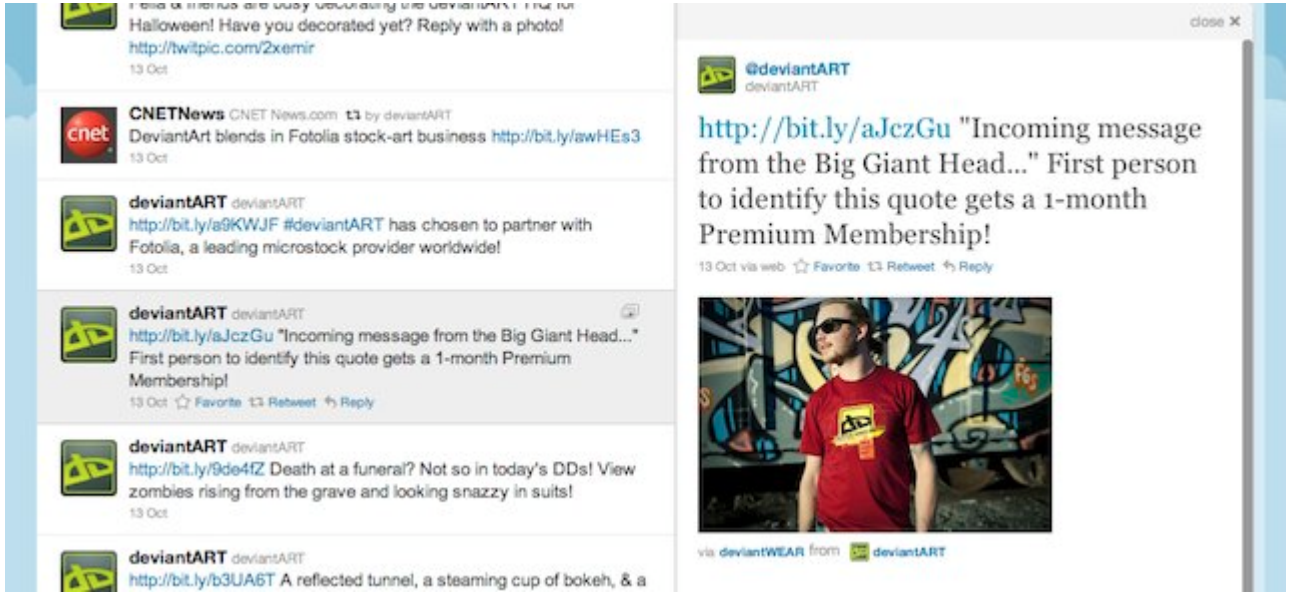
~~Reliable~~

~~Secure~~

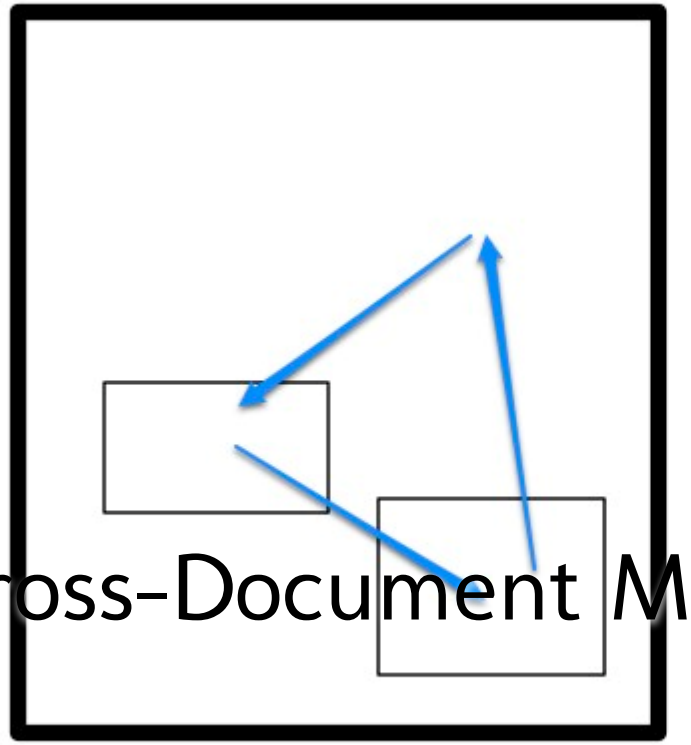
~~Performant~~

enable cross-origin resource sharing

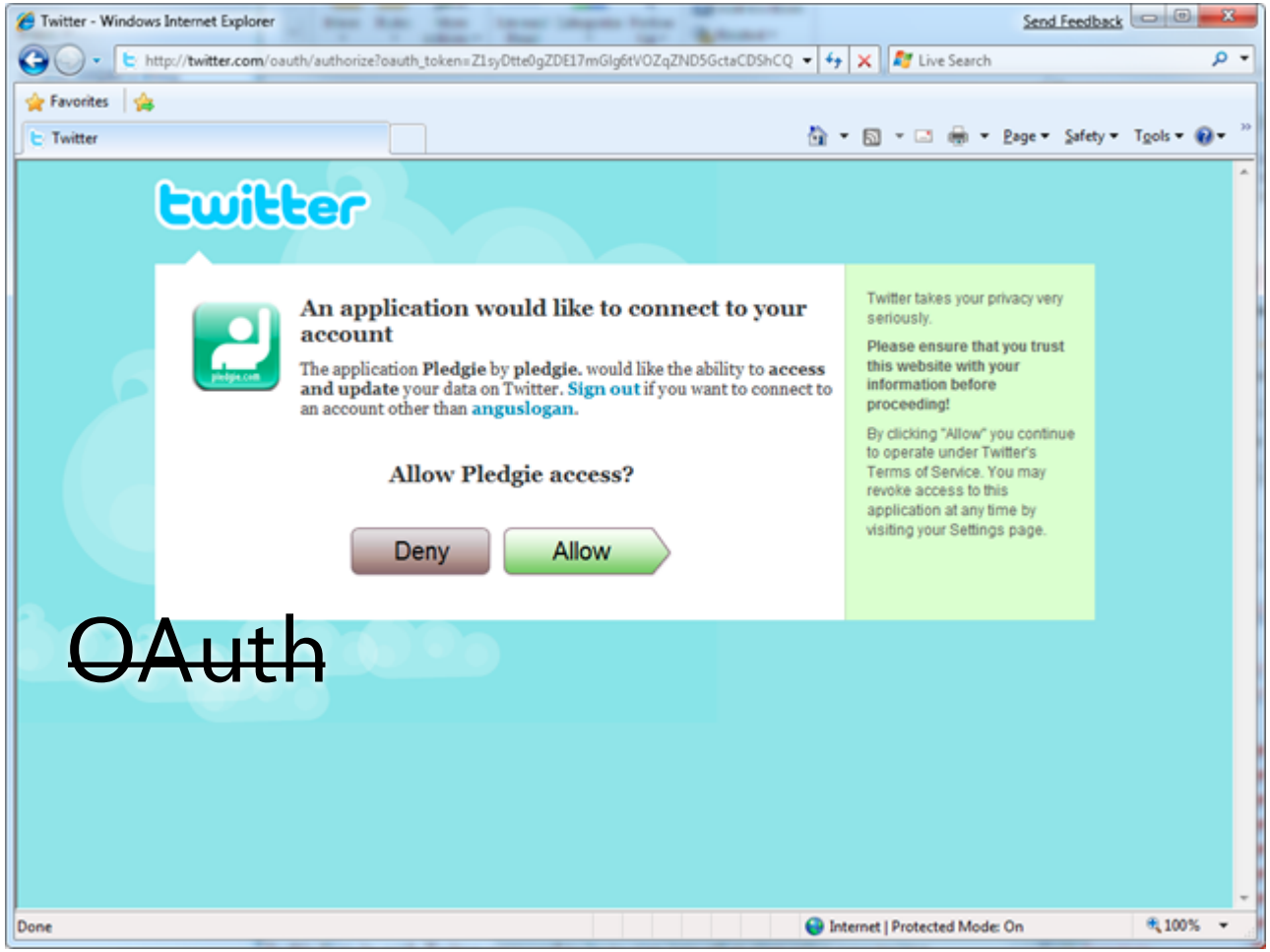
CORS
http://enable-cors.org/


Halloween! Have you decorated yet? Reply with a photo!
http://twitpic.com/2xernir
13 Oct
CNETNews CNET News.com by deviantART
DeviantArt blends in Fotolia stock-art business http://bit.ly/awHEs3
13 Oct
deviantART deviantART
http://bit.ly/a9KWJF #deviantART has chosen to partner with Fotolia, a leading microstock provider worldwide!
13 Oct
deviantART deviantART
http://bit.ly/aJczGu "Incoming message from the Big Giant Head..." First person to identify this quote gets a 1-month Premium Membership!
13 Oct Favorite Retweet Reply
deviantART deviantART
http://bit.ly/9de4fZ Death at a funeral? Not so in today's DDs! View zombies rising from the grave and looking snazzy in suits!
13 Oct
deviantART deviantART
http://bit.ly/b3UA6T A reflected tunnel, a steaming cup of bokeh, & a
close
@deviantART
deviantART
http://bit.ly/aJczGu "Incoming message from the Big Giant Head..." First person to identify this quote gets a 1-month Premium Membership!
13 Oct via web Favorite Retweet Reply
via deviantWEAR from deviantART

oEmbed



Cross-Document Messaging


Twitter - Windows Internet Explorer
Send Feedback
http://twitter.com/oauth/authorize?oauth_token=Z1syDtte0gZDE17mGlg6tVOZqZND5GctaCDShCQ
Live Search
Favorites
Twitter
Page
Safety
Tools
twitter
An application would like to connect to your account
The application Pledgie by pledgie. would like the ability to access and update your data on Twitter. Sign out if you want to connect to an account other than anguslogan.
Allow Pledgie access?
Deny
Allow
Twitter takes your privacy very seriously.
Please ensure that you trust this website with your information before proceeding!
By clicking "Allow" you continue to operate under Twitter's Terms of Service. You may revoke access to this application at any time by visiting your Settings page.
OAuth
Done
Internet | Protected Mode: On
100%

kend deployments are for chumps
s. 52 minutes ago by rockhymas. read later tweet
URLs
e on Twitter
« 3 comm
Twitter
https://oauth.twitter.com/2/authorize?oauth_callback_url=http%3A%2...
twitter
Logged in as @mahemoff | sign out
Connect Hacker News Reader with your @mahemoff account to interact with your followers and share content through your timeline.
Connect
Cancel
By clicking "Connect" you agree to the Twitter Terms of Service. In particular, some usage information will be shared back with Twitter. For more, see our Privacy Policy.
OAuth 2

SPArchitecture Options

0. Conventional Website: Browser–Server

1. Serverless SPA

HTML snippets
JS snippets
CSS snippets

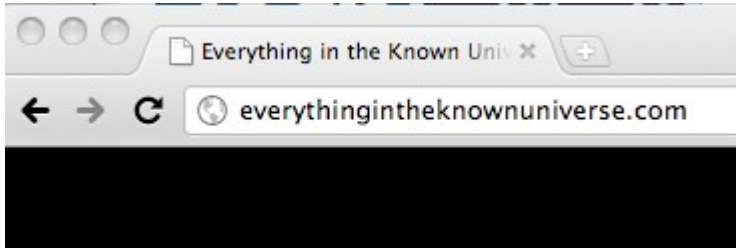
2. UI Services

3. Semantic Services

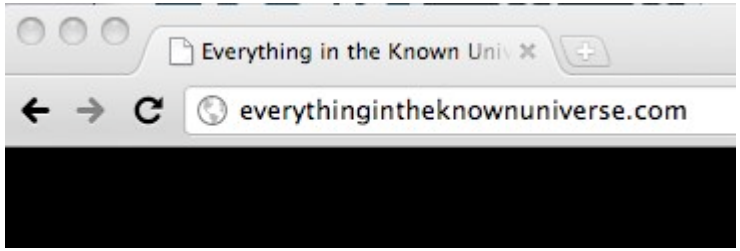
Separation of Concerns

FIELDING REST RFC
2616
HAS
A
POSSE
REST

And the REST is History ...



Single Page means Single URL?



Bookmarking, Back Button, Tweeting, etc.

The Magic Hash

```
document.location="http://example.com/#movies";
document.location.hash = "#movies"; // same thing'

http://example.com/#movies
http://example.com/#books
http://example.com/#music
```

```
http://example.com/#/books
http://example.com/#/search/gladwell
http://example.com/#/books/gladwell-genius
```

```
http://example.com/#!books
http://example.com/#!search/gladwell
http://example.com/#!books/gladwell-genius
```

Google Webmaster Central Blog

Official news on crawling and indexing sites for the Google inde

A proposal for making AJAX crawlable

Wednesday, October 07, 2009 at 10:51 AM

Webmaster level: Advanced

Today we're excited to propose a new standard for making AJAX-based websites crawlable. This will benefit webmasters and users by making content from rich and interactive AJAX-based websites universally accessible through search results on any search engine that chooses to take part. We believe that making this content available for crawling and indexing could significantly improve the web.

While AJAX-based websites are popular with users, search engines traditionally are not able to access any of the content on them. The last time we checked, almost 70% of the websites we know about use JavaScript in some form or another. Of course, most of that JavaScript is not AJAX, but the better that search engines could crawl and index AJAX, the more that developers could add richer features to their websites and still show up in search engines.

Some of the goals that we wanted to achieve with this proposal were:

- Minimal changes are required as the website grows

brikis98 Yevgeniy Brikman

Not only are the gawker sites ugly now, they are also broken due to hash-bang style URLs. Well done. RT @newsycombinator http://j.mp/g98Doo

3 weeks ago via Twitter

Comment · Like

michaelneale Michael Neale

hashbang is being abused by content sites. If its content, let it be content

3 weeks ago via Twitter

Comment · Like

#HashBangHell

meyerweb Eric A. Meyer

Hash-bang URLs? Whoever came up with that idea must've been using a hash-BONG, amirite?

3 weeks ago via Twitter

Comment · Like

brikis98 Yevgeniy Brikman

Not only are the gawker sites ugly now, they are also broken due to hash-bang style URLs. Well done. RT @newsycombinator http://j.mp/g98Doo

3 weeks ago via Twitter

Comment · Like

michaelneale Michael Neale

hashbang is being abused by content sites. If its content, let it be content

3 weeks ago via Twitter

Comment · Like

meyerweb Eric A. Meyer

Hash-bang URLs? Whoever came up with that idea must've been using a hash-BONG, amirite?

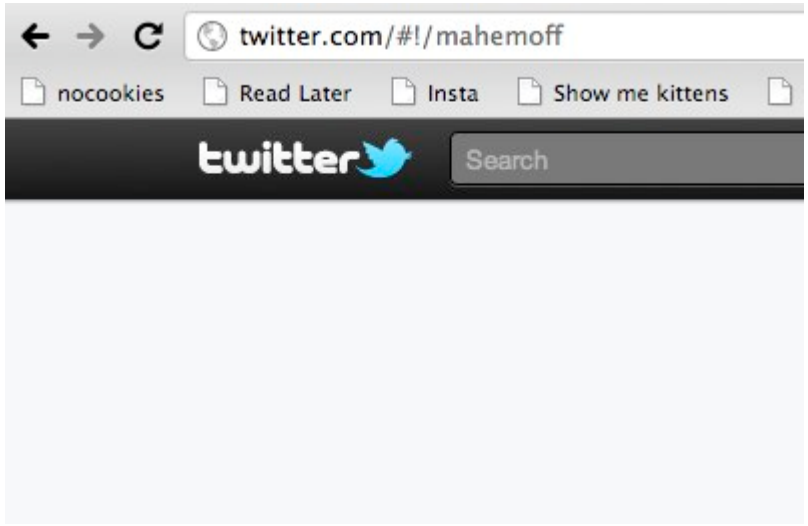
3 weeks ago via Twitter

Comment · Like

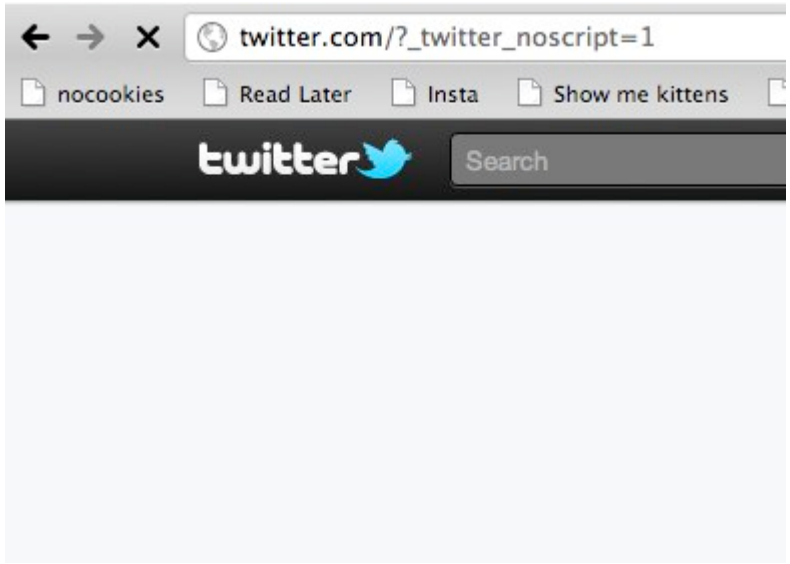
uncool URL

can't easily edit URL

weird scrolling issues



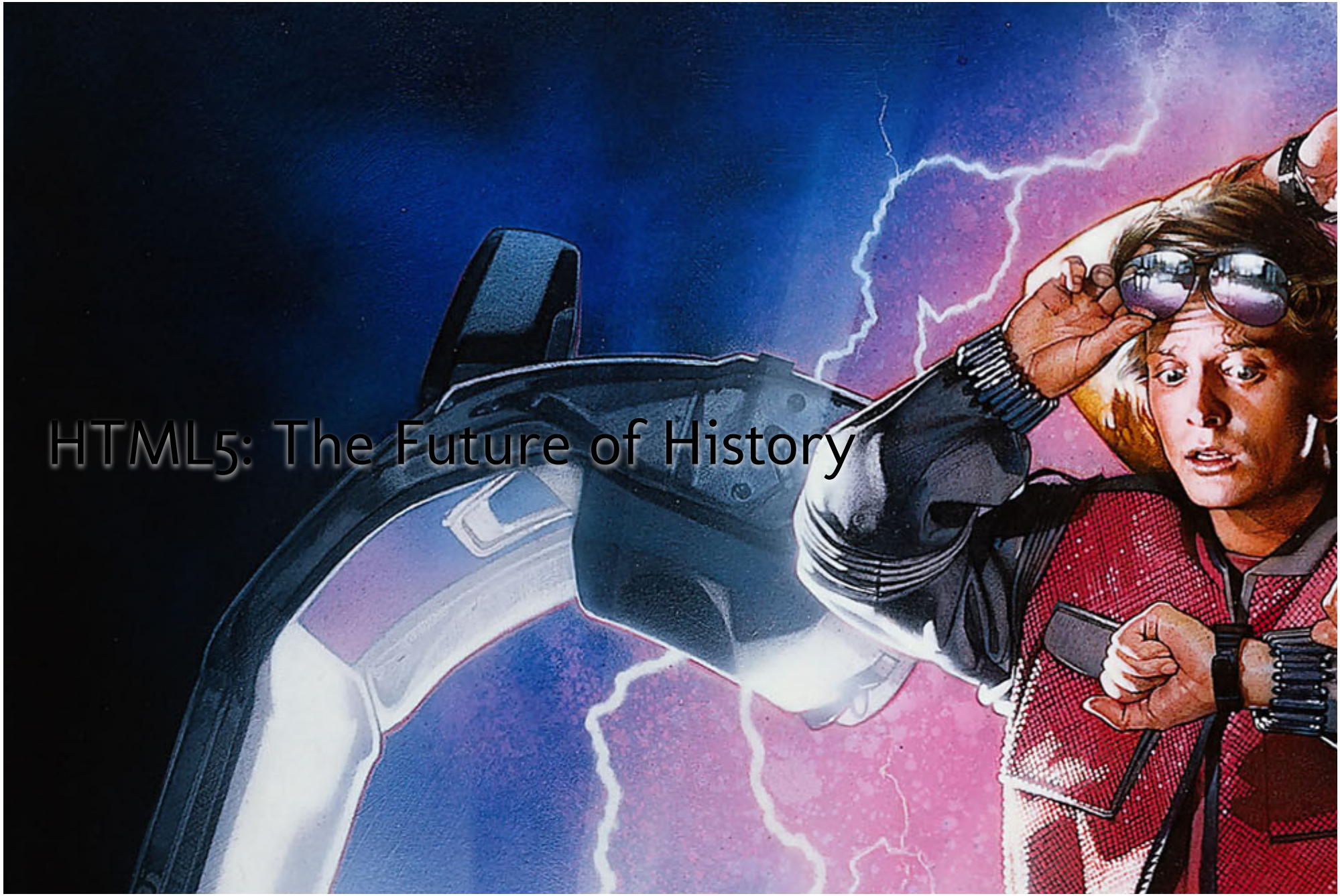
But the real problem ...


twitter.com/?_twitter_noscript=1
nocookies
Read Later
Insta
Show me kittens
twitter
Search

empty

```
<html>
    <head>
      <title>My amazing app</title>
      <script>
        window.onload = function() {
          if (document.location.pathname.match(/^\
            // show the search
          }
        };
      </script>
    </head>
    <body>
      <!-- Empty body -->
    </body>
  </html>
```

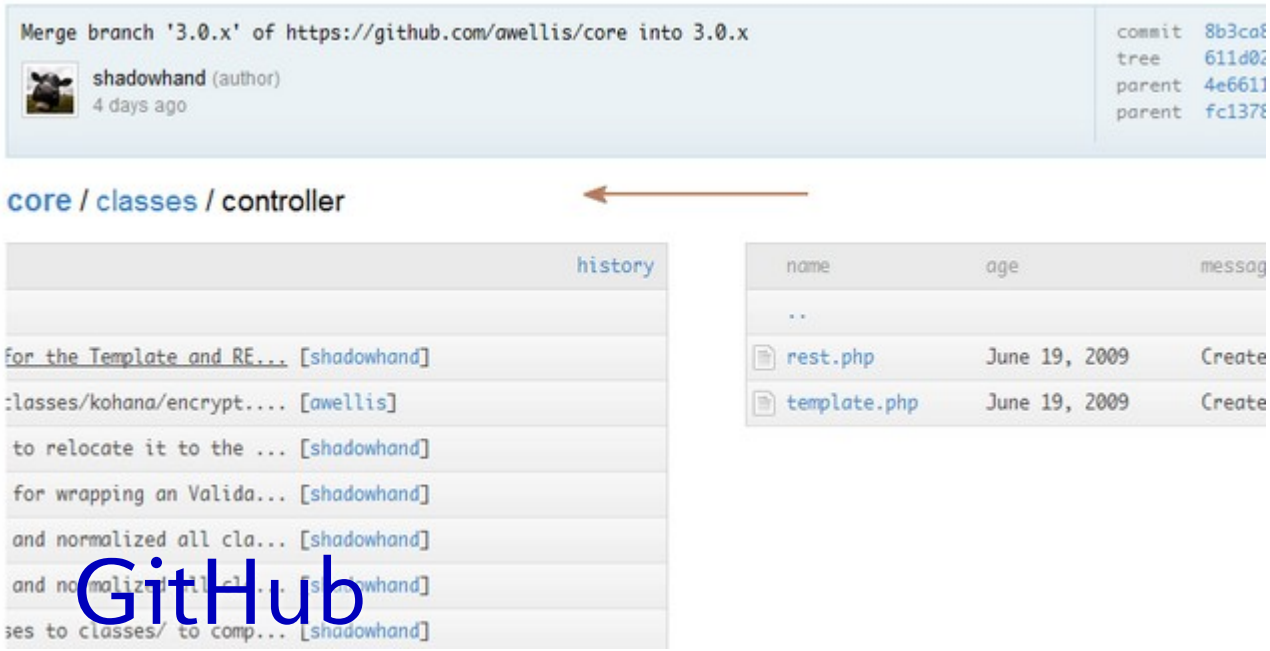
No-JS browsers?
Search engines?
Other clients?


HTML5: The Future of History

```
history.pushState(
    {search: "rainbows"},
    "Items containing 'rainbows'",
    "/search/rainbows"
  );
```

Abusing the HTML5 History API for fun (and chaos)

Points 3
probablyinteractive.com/url-hunter# You killed 3 animals in 30 seco...
URL Hunter!
An experimental game using the URL bar as the game screen.
How to play?
Look up at the url bar! You are the O! You are trying to kill the a's. Use the Left and Right keys to move. When you are over an a press spacebar to kill it!
You should follow me on Twitter because everyone else does.
http://probablyinteractive.com/url-hunter



Source: https://gist.github.com/730603

~~http://example.com/#!/search/rainbows~~

http://example.com/search/rainbow

URL represents ~~State~~ Resource

Sync resource and URL

```
search.onclick = function() {
  var query = searchEl.value;
  // Perform the search, change UI
  history.pushState({search: query}, "Search", "/s
}
```

```
window.onpopstate = function(ev) {
  // transform based on document.location and/or e
}
```

When does URL change?
Initial Load
Back button, Forward button
User changes URL

CODING HORROR

programming and human factors
by Jeff Atwood

Web ⦿ Coding

NEWER »
Why Do Computers Suck at Math?

« OLDER
Pseudocode or Code?

Home

Browse All Posts

[ad] Is no news good news...? Give your customers a voice. Error reporting made easy. Try it now.

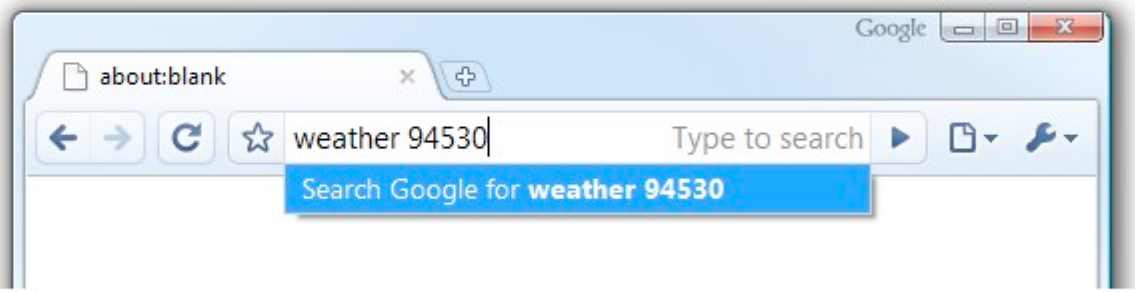
[ad] Tired of endless code review emails? Ditch the emails - try peer code review with Code Collaborator. Also learn tips and tricks with this free book.

[ad] You've maxed out your machine. Now upgrade your

May 11, 2009

The Web Browser Address Bar is the New Command Line

Google's Chrome browser passes anything you type into the address bar that isn't an obvious URI on default search engine.

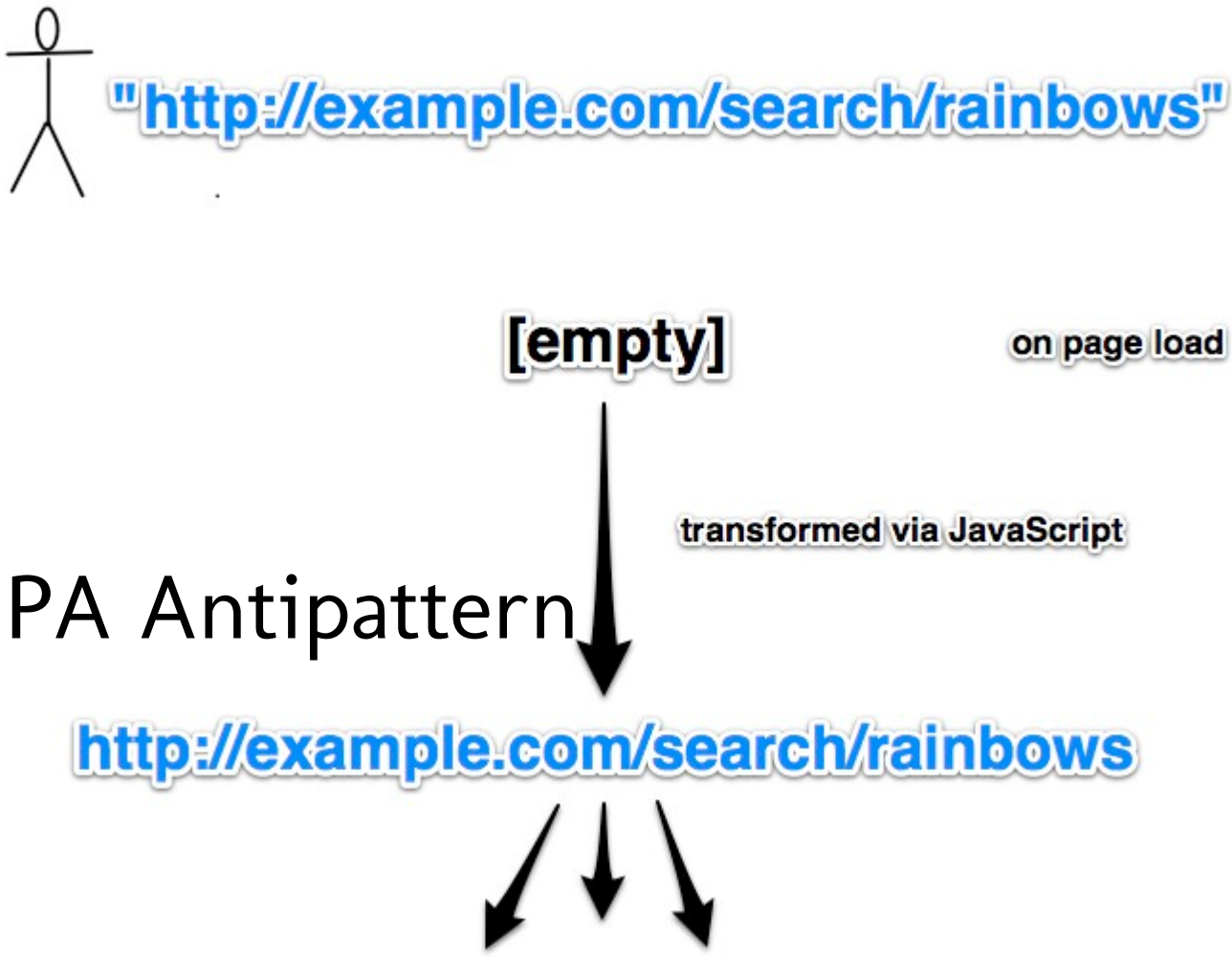


While web browsers should have some built-in smarts, they can never match the collective intelligen a worldwide search engine. For example:

weather San Francisco
CSCO
time London

```
history.length
history.back();
history.forward();
history.go(5);

window.onpopstate() { ... }
history.pushState({...}, "title", "/the/url");
history.replaceState({...}, "title", "/the/url");
```



SPA Antipattern

"http://example.com/search/rainbows"

http://example.com/search/rainbows

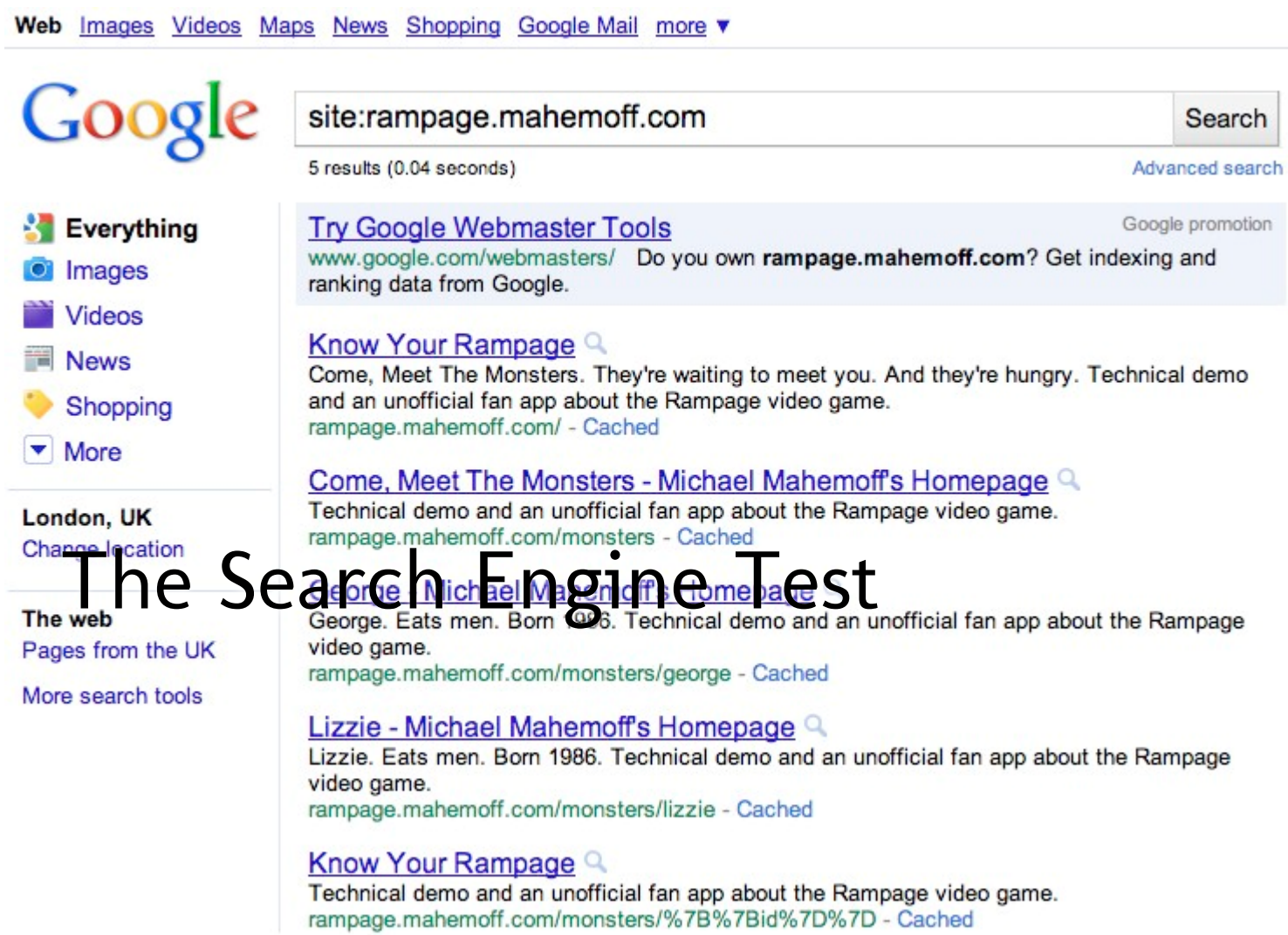
straight from server

SPA Pattern

Demo: http://rampage.mahemoff.com
Source: https://github.com/mahemoff/rampage

```
curl http://rampage.mahemoff.com/monsters/george

...
<body>
  <h1><a href="/">Know Your Rampage</a></h1>
  <div id="main">
    <h2><a href="/monsters">monsters</a> > George<
    <img src="/images/george.jpg" />
    <div>Eats men</div>
    <div>Born 1986</div>
  </div>
...
```



The Search Engine Test

```
/
/monsters
/monsters/lizzie
/monsters/george
/monsters/ralph
```

Unique ~~State~~ Resource Identifiers!

```
window.onpopstate = function() {
  var matches;
  if (document.location.pathname=="/monsters") {
    ...
  } else if (matches = document.location.pathname.
    var monster = matches[1];
    ...
  } else { // can't handle it? Then we need to ref
    ...
  }
}
```

Know Your Rampage

monsters > George

Hijax

Eats men

```
<h2><a href="/monsters">monsters</a> > {{name}}</h
<img src="/images/{{id}}.jpg" />
<div>Eats {{food}}</div>
<div>Born {{born}}</div>
```

```
$("a").live("click", function(ev) {
  history.pushState({}, title, this.href);
  onURLUpdate();
  ev.preventDefault();
});
```

Dual Side Templating: Mustache library

```
{{#monster}}
  <h2><a href="/monsters">monsters</a> > {{name}}<
  <img src="/images/{{id}}.jpg" />
  <div>Eats {{food}}</div>
  <div>Born {{born}}</div>
{{/monster}}
```

SERVER [RUBY]

```
get '/monsters/:monster' do
  mustache :monster,
    :monster=>get_monster(params[:monster]),
    :layout=>true
end
```

BROWSER [JAVASCRIPT]

```
$(this).html(
  Mustache.to_html($("#monster_template").html(),
                   {monster:monster})
).show();
```

http://rampage.mahemoff.com/monsters.json


```
[
  {"born":1986,"food":"men","name":"Lizzie","id":'
  {"born":1986,"food":"women","name":"George","id'
  {"born":1986,"food":"businessmen","name":"Ralph'
]
```

```
// popState handler
  if (document.location.pathname=="/monsters") {
    $.getJSON("/monsters.json", function(monsters)
      $("#main").fadeOut(function() {
        $(this).html(
          Mustache.to_html($("#monsters_template")
        ).show();
      });
    });
```

Embracing the SPA

1. Client: HTML5 History

2. Server: RESTful Web Services

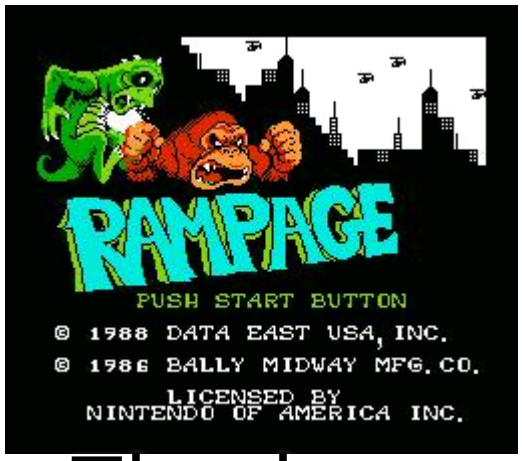
3. Server: Full Page for every URL

4. Dual-Side Templating

5. Hijax: Standard links, augmented

6. Leverage libraries – history.js, jquery.history.js, sammy.js

7. Consider HashBang for Older Browsers



Thankyou

More HTML5 at http://html5rocks.com

Mail: mahemoff@google.com

Twitter: mahemoff

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