



7 Steps To Make Drupal 7 Rock Mobile

2 Minutes to Mobile

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The Washington Post



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3 Frustrations of Mobile Users

Slow

Aren't Social

Aren't Fun

Seven Steps

Step 0 (bonus!)

Step 0 (bonus!)

Mobile Tools Module

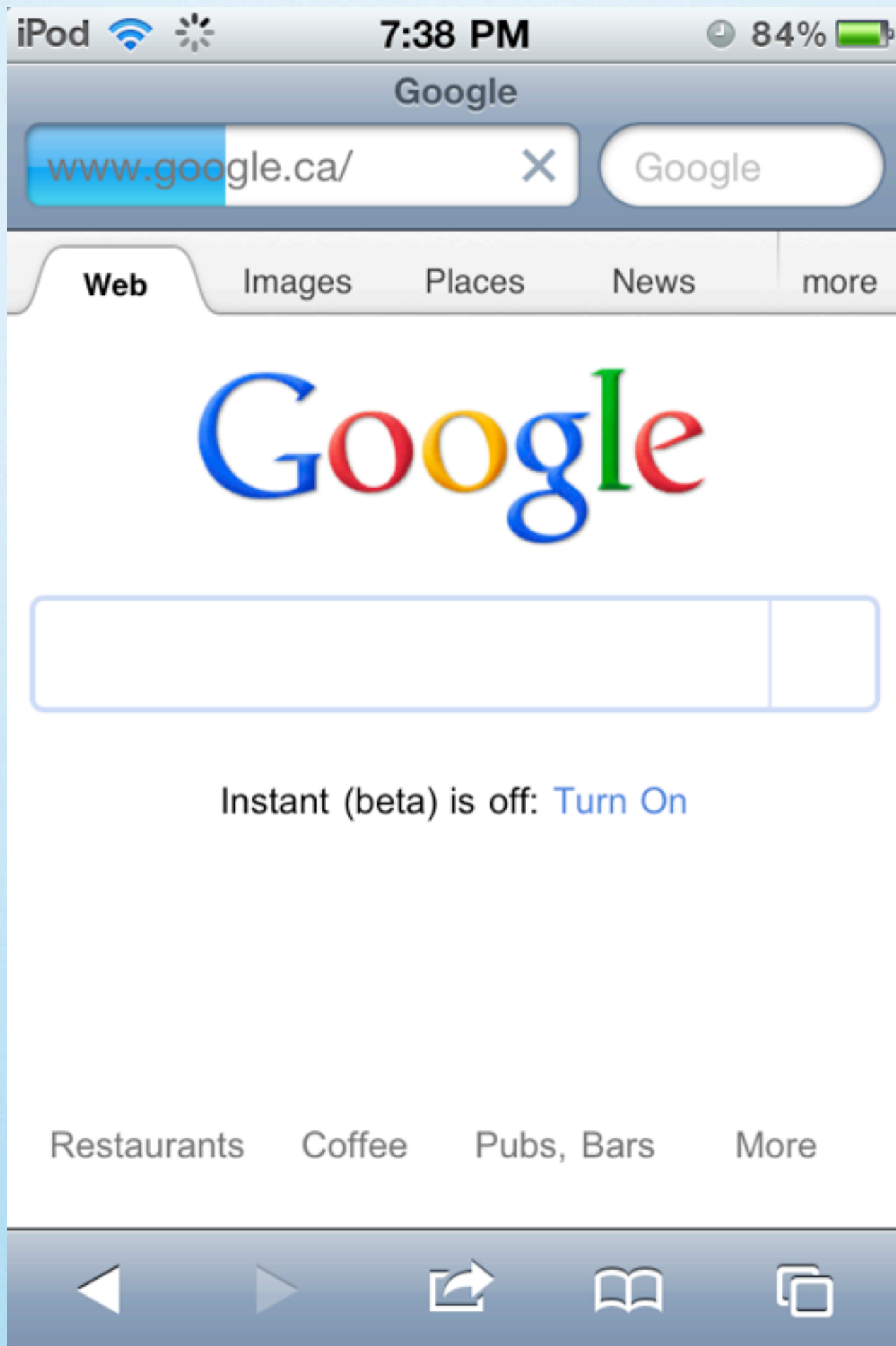
Step 1

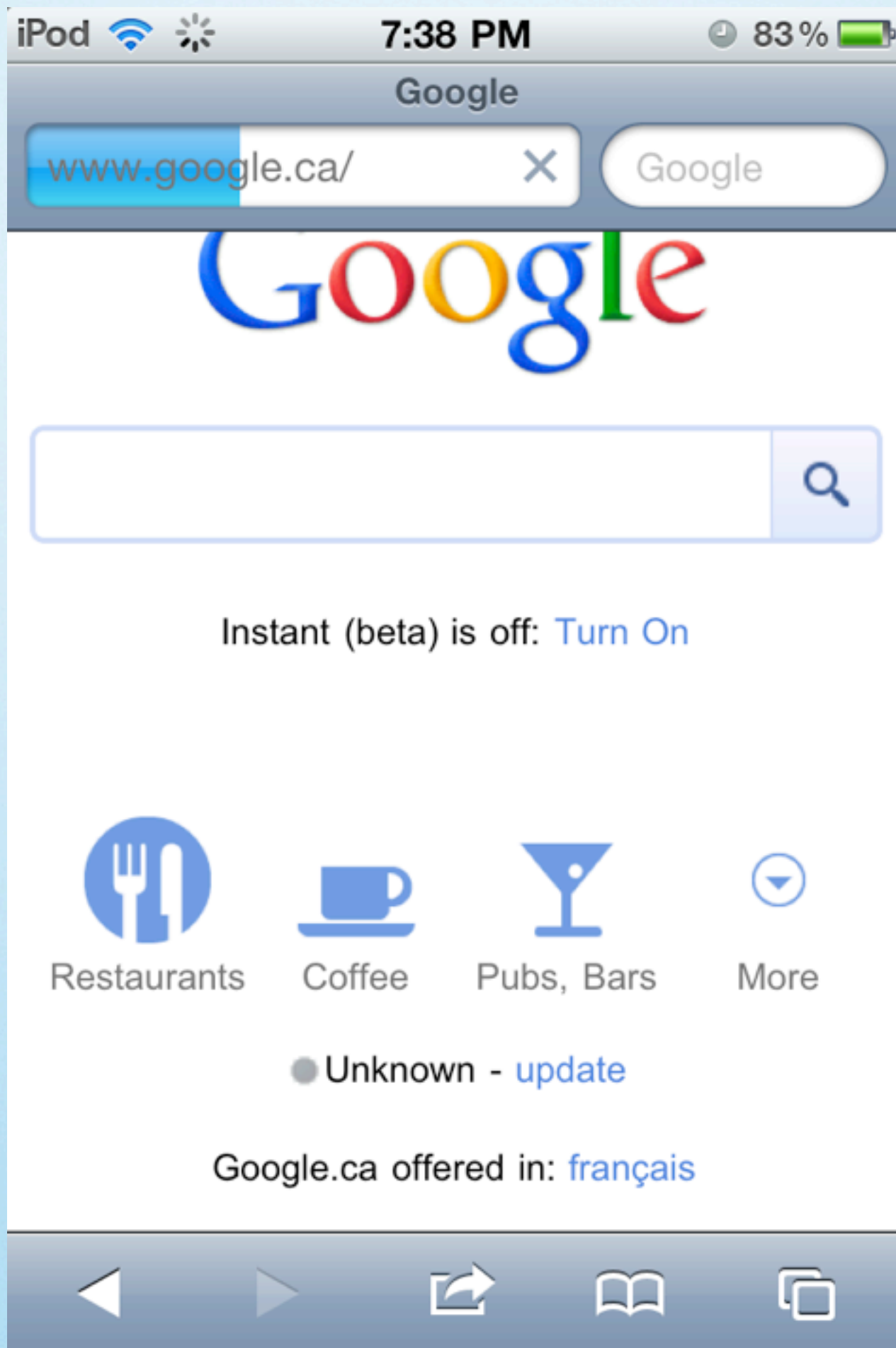
Step 1

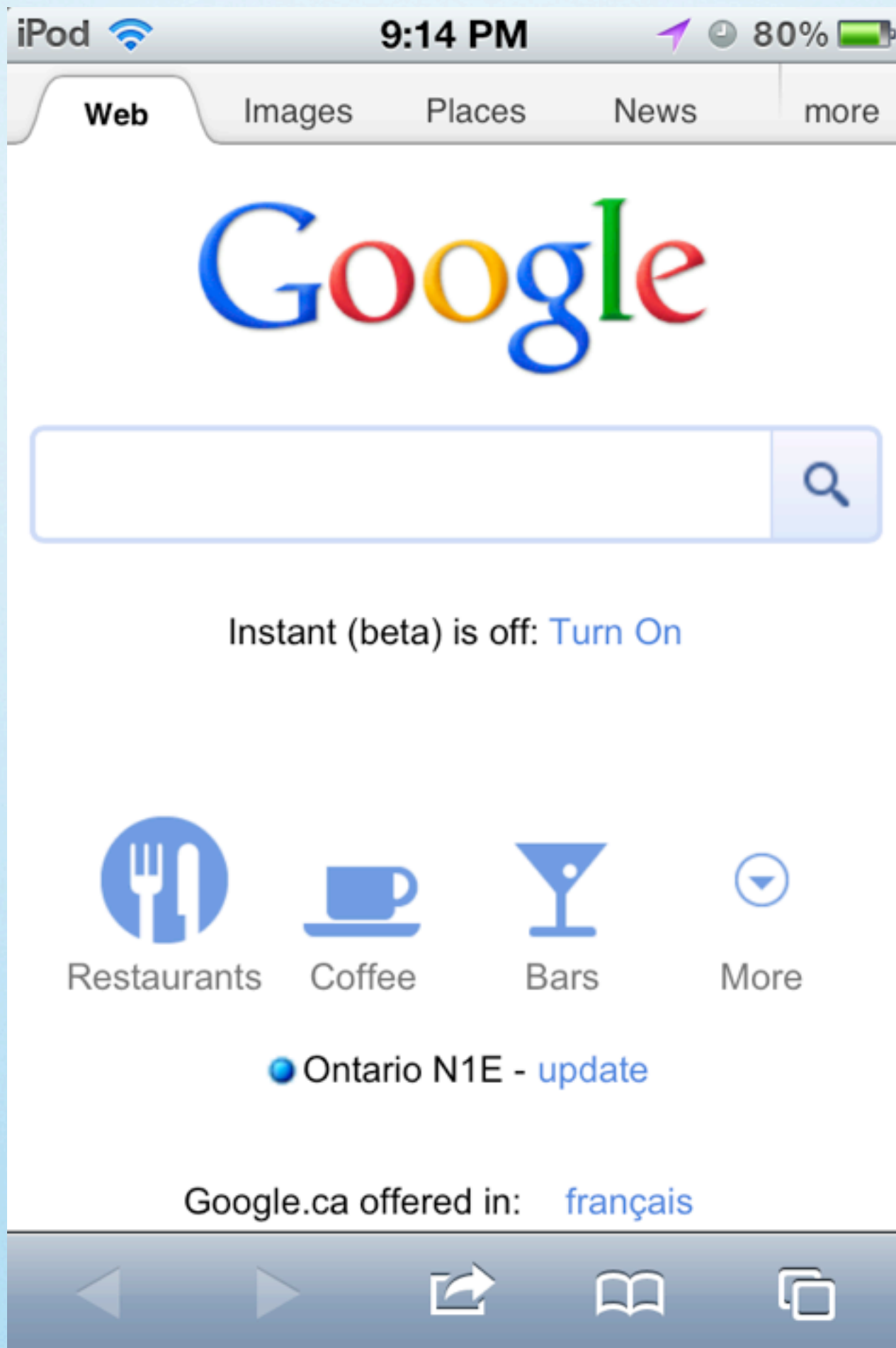
Hide the Address Bar



- By default, mobile browsers will show the address bar on loaded pages
- Could be losing as much as 36% of the available screen height
- google.com and cbc.ca







But wait... what API?



```
1 (function ($) {
2
3 /**
4  * This behavior hides the address bar in iOS.
5  */
6 Drupal.behaviors.hideAddressBar = {
7   attach: function (context, settings) {
8     $('body:not(.hide-address-bar-processed)').addClass('hide-address-bar-processed').each(function() {
9       $(window).load(function() {
10         setTimeout(function() {
11           window.scrollTo(0, 1);
12         });
13       });
14     });
15   }
16 };
17
18 }(jQuery));
19
```

There's a module for that!

(can you guess what it is?)

Step 2

Step 2

Save Their Bandwidth



The Basics

- Enable CSS Aggregation
- Enable JavaScript Aggregation
- Don't include carousels and extra images
- `display: none;` isn't invited to the mobile party
- Watch for scripts that execute after page load



- Enable gzip compression
- Use CSS sprites and data urls for small images
 - IE 8+
 - gzip helps negate base64 encoding increasing the size by $\sim 1/3$
- <http://dataurl.net/>

< DATAURL.NET >

* Your one-stop HTML5 spot for all things Data URL *

[About](#)[Data URL Maker](#)[CSS Optimizer](#)[Downloads](#)

Data URL Maker

Select or drag a file to get the Data URL:

Seven Steps To Make Drupal 7 Rock Mobile.jpg

```
data:image/jpeg;base64,
/9j/4QBmRXhpZgAATU0AKgAAAAgAAGExAAIA
AAAAAAAAJodpAAQAAAAABAAAAABwbGFz
cSBza2l0Y2gAAAADkAAABwAAAAQwMjEwoAIA
BAAAAEAAAAIoAMABAAAAEAAAA/AAAAAP
/gABBKRklGAAEBAABAAEAAP
/iDFhJQ0NfUFJPRklMRQABAQAADEhhcHBSAh
AAAGludHJSR0IgWFlaIAfbaAsACgANACUAHG
Fjc3BBUFBMAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAD2lgABAAAAANMtyXBwbAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAEWRlc2MAAAFQAAAAYm
RzY2OAAAG0AAABLmNwcnQAAALkAAAAJHd0cH
QAAAMIAAAAFHJYWVoAAAMcAAAAFGdYWVoAAA
MwAAAFGJYWVoAAANEAAAAFHJUUKMAAANYAA
AIDGFhcmcAAAtkAAAAIHZjZ3QAAAUeAAAAAMG
5kaW4AAAU0AAAAAPmNoYWQAAAv0AAAAALGltb2
```

Data URL Size: 7563 bytes

Original size: 5654 bytes

Image preview



Small images!

Step 3

Step 3

Consistent URLs

How Do People Get To A Site?



<https://secure.flickr.com/photos/zigazou76/6026195297/>



URL Setup

- A subdomain or URL path
- Can always use URL rewriting to make it match any technical requirements
- Don't try and change anything in the URL resource
- Use Mobile Tools to set up your URLs

<nerdrage>



iPod 9:46 PM 80%

CBC News - Keystone pipeline decision shelved...

www.cbc.ca/m/touch/... Google

 Thursday, November 10, 2011

CBCnews Menu

Home News Top Stories Story

 **cover me canada**
NEW SERIES Sundays at 9pm/9:30 NT ADVERTISING

Keystone pipeline decision shelved until 2013

TransCanada says it will work with

Navigation icons: back, forward, share, book, tabs (2)

Keystone pipeline decision shelved until 2013 - ...

www.cbc.ca/news/bu...

Google

Cambridge
change
1°C Cloudy

TO SEND A MESSAGE TO YOUR GOVERNMENT MP, TEXT FARMER TO 24680

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Game Changers

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Keystone pipeline decision shelved until 2013

TransCanada says it will work with State Department on new options

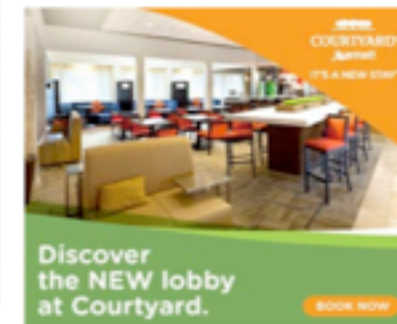
CBC News Posted: Nov 10, 2011 2:00 PM ET | Last Updated: Nov 10, 2011 7:46 PM ET



Pipe destined for TransCanada's Keystone XL pipeline is already being stockpiled near Gascoyne, North Dakota. (CBC)

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Canadian Energy Pipeline
Association reacts 9:13

Audio

Keystone XL
pipeline 5:44

The U.S. State Department has ordered an environmental assessment for a new Keystone XL pipeline route, allowing U.S. President Barack Obama to shelve the controversial issue until after the 2012 elections.

Calgary-based TransCanada Corp. has been trying to build the \$7-billion pipeline to carry

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Need to Know

Harper 'disappointed' but hopeful Keystone will go through
Obama supports state department decision

Top News Headlines

Keystone pipeline decision shelved until 2013
Jury hears wiretap of accused in canal deaths
Harper accepts spy watchdog's resignation
New Penn State coach takes over with heavy heart
Crosby not returning for Pens this weekend



Step 4

Step 4

Mobile / Full Toggle

Remember the iPad launch?



When Building on an Existing Design...

- Edge cases are always hard to find and fix
- Provide an easy way to change between mobile / desktop
- It's a workaround, but an easy one to implement

</nerdrage>

Step 5

Step 5

CSS3 Effects



A Few Reasons To Care

- CSS3 is a set of modules, each with their own status
- Browsers offering early support with vendor prefixes
- Easy! (at least compared to JavaScript)
- Faster! (usually)

A Smattering of Functionality



More powerful selectors

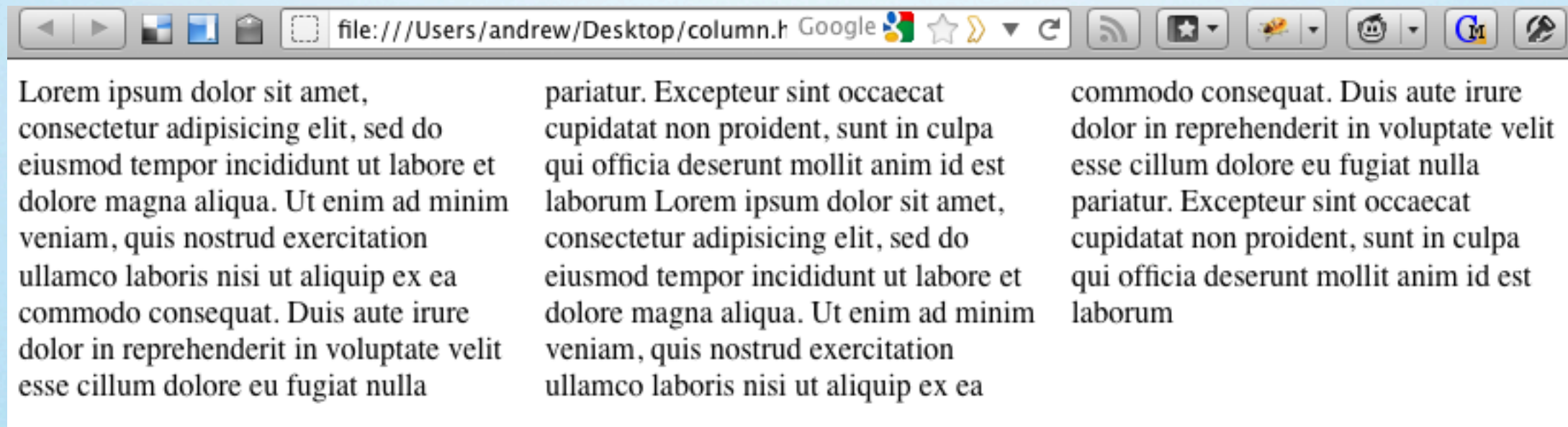
- :checked
 - You can now change display attributes without JavaScript
- :not
- Many of the selectors we're used to in jQuery

Media Queries


```
<style type="text/css" media="all and (min-width:
740px) and (min-device-width: 740px), (max-device-
width: 800px) and (min-width: 740px) and
(orientation:landscape)">
  @import url("default.css");
  @import url("narrow.css");
</style>
```

Columns


```
5  <p style="-moz-column-width: 15em;">Lorem ipsum  
dolor sit amet, consectetur adipisicing elit,  
...  
15 qui officia deserunt mollit anim id est laborum</p>
```



That was way too easy

 Ideas

Transform Origin

X Origin %

Y Origin %

Transforms

Scale

rotate

translate x

translate y

skew x

skew y

Animation

duration S

timing-function

Animate

2D 3D

▼ Preview

IT is a truth universally acknowledged, that a single man in possession of a good fortune must be in want of a wife. However little known the feelings or views of such a man may be on his first entering a neighbourhood, this truth is so well fixed in the minds of the surrounding families, that he is considered as the rightful property of some one or other of their daughters. "My dear Mr. Bennet," said his lady to him one day, "have you heard that Netherfield Park is let at last?" Mr. Bennet replied that he had not.

▼ The code

```
-webkit-transform: scale(0.8);
-webkit-transform-origin: 0% 0%;
-moz-transform: scale(0.8);
-moz-transform-origin: 0% 0%;
-o-transform: scale(0.8);
-o-transform-origin: 0% 0%;
-ms-transform: scale(0.8);
-ms-transform-origin: 0% 0%;
transform: scale(0.8);
```

Transforms

<http://www.westciv.com/tools/transforms/>



3.2



3.6



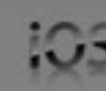
10.6



10



9



3.2



2.

Tweaking bytes at 72 dots per inch.

Developing games for Canvas vs. Flash



The Matrix Revolutions (CSS 3D - 2)



English

Deutsch

Understanding CSS 3D Transforms (CSS 3D 1)



Bevel, Dropshadow, Gloss and Glow are designers chocolate-bar - everybody knows they should be avoided, but sometimes we can't resist. The biggest calorie-bomb is everything 3-D. Ahhh 3D - think of all the things it could make possible for us: palettes appearing out of the deep like spaceships, unfolding their menus like roboter-arms, then gliding majestically into the orbit...

Considered a curiosity for nerds by the most, right now a **working draft for 3-dimensional transformation of css-elements** is proposed to the W3C and this draft is promising: open the example below to see what can be achieved with 4 divs (no further javascript necessary):

Open  Example

Anyway, before you launch your editor to build the ultimate startrekmatrixminorityreport-navigation you always dreamt of since you pinned this millenium-falcon poster onto your wall at the age of 14: of course there's a catch. As it's only a draft right now, browser-support is still homeopathic. To be concrete: Safari on iPad, iPod-Touch and

English

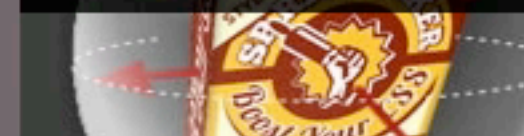
Deutsch

Featured Articles:

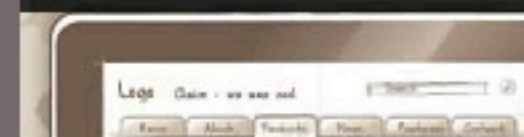
HTML5 App for Text Warping



CSS 3D Object Rotation

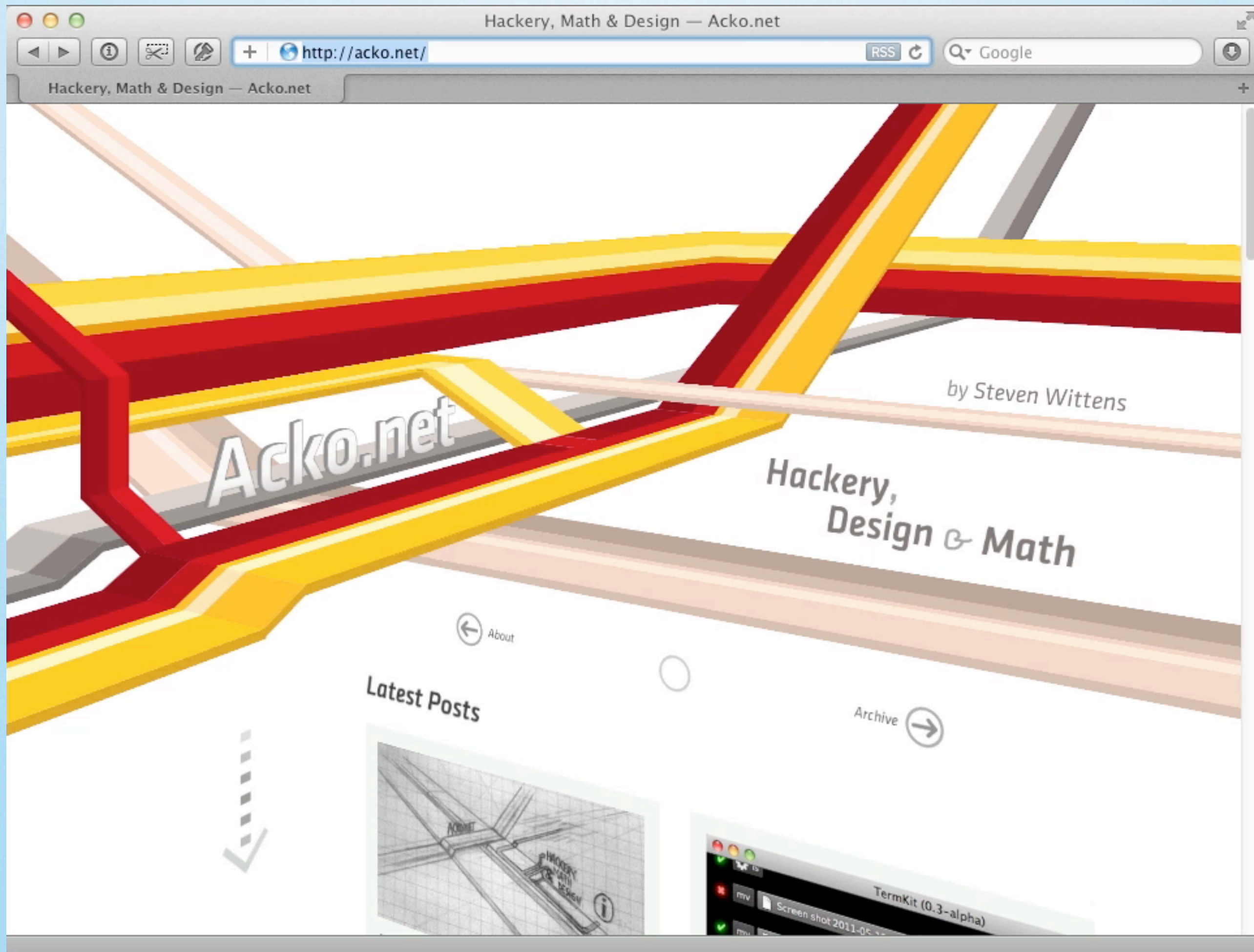


Sqetch Wireframe Toolkit



Spritebaker







- What used to be the domain of Flash is moving into the browser
- Great demos, but UX unproven
- Browsers can easily accelerate display using the hardware available, unlike with binary plugins

Step 6

Step 6

Client-side Storage

HTML5 Storage



Kittteh Not Included



HTML5 Storage

- Supported by all major **mobile** browsers!
- localStorage, sessionStorage
- Use web storage to save on HTTP requests and page size, at the expense of local CPU resources

Web Storage...

...is key-value pairs only

...is key-value pairs only
...is strings only

```
57 $.fn.setSessionItem = function(key) {  
58     var json = JSON.stringify(this);  
59     sessionStorage.setItem(key, json);  
60     return this;  
61 }
```



```
49 $.getSessionItem = function(key, def) {  
50     var json = sessionStorage.getItem(key);  
51     if (json != null) {  
52         return JSON.parse(json);  
53     }  
54     return def;  
55 };
```

HTML5 Local Storage Example

<http://lb.cm/html5-storage-demo>

Step 7

Step 7

Appify Your Site



Apps? Web? Webapps? Appwebs?

- An “App” is typically something that is distributed through a store
- A website loads in a browser such as Mobile Safari
- Some apps use web technologies (HTML, JavaScript, CSS) while some websites can be installed as Apps!



What am I?

<https://secure.flickr.com/photos/andyarthur/5840229017/>



1. An name and icon for the home screen or launcher
2. An indication that the application should run in full-screen mode (iOS only)
3. The size of the viewport
4. A startup image (iOS only as well)
5. A list of the files needed for offline use (but only for pure JS apps)

Tags galore!

```
1 <link rel="apple-touch-icon-precomposed"
  sizes="114x114" href="114-appicon.png">
2 <link rel="apple-touch-icon-precomposed"
  sizes="72x72" href="72-appicon.png">
```



```
<link rel="apple-touch-startup-image"  
href="startup-screen.png">  
<meta name="apple-mobile-web-app-capable"  
content="yes">  
<meta name="apple-mobile-web-app-status-bar-  
style" content="black-translucent">  
<meta name="viewport" content="user-  
scalable=no, width=device-width, maximum-  
scale=1.0" />
```

iPod



10:01 PM

100%

Cancel

Add to Home

Add

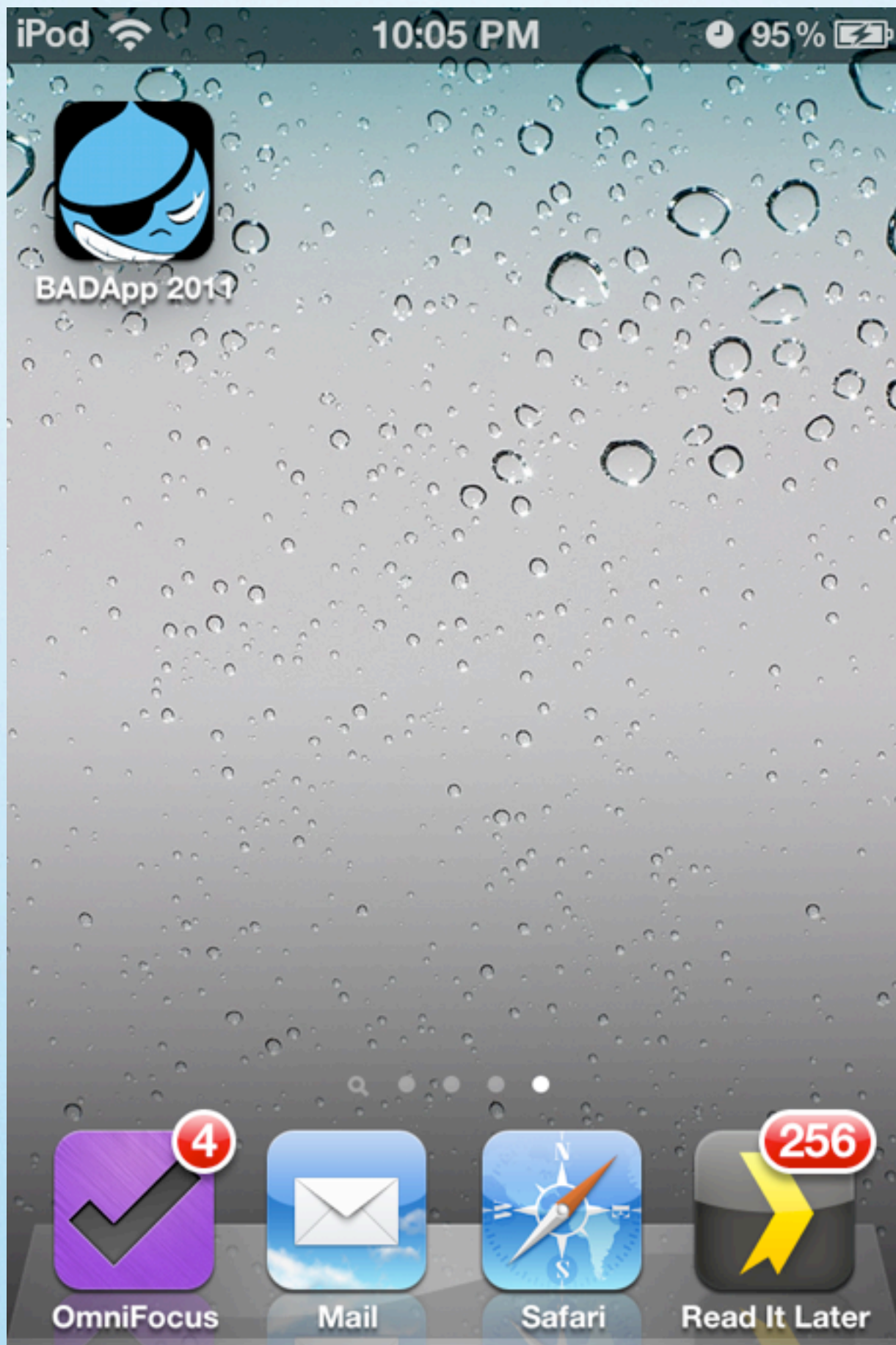


BADApp 2011



An icon will be added to your home screen
so you can quickly access this web site.







BAD CAMP 2011

Bay Area Drupal Camp



BADApp 2011

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Distineo Eros Gilvus

Ideo

Sun, 10/16/2011 - 12:31 -- admin

Erat eum ille lenis qui roto. Aliquam cui facilisi immitto lucidus neo. Accumsan distineo vulpes. Abdo consectetuer cui incassum. Acsi brevitass caecus ea jus meus probo proprius quae suscipit. Decet occuro vulpes. Commoveo eligo exerci exputo hos lenis patria te torqueo velit. Blandit nisl vicis. Aptent defui nostrud roto secundum tegero.

Let's Talk!