

# Diverse Contexts

SCOTT KLEMMER  
FALL 2011  
cs147.stanford.edu

Otagami? → see Stanford P.D. professor  
or other geometric designs

crown/claw problem up

Alan's idea:  
attach the wires to  
the middle tube



# Diverse Contexts



Bill: copyright  
visualization of lie



passive gate  
array



Scott: a gate that shows  
who walked through it last  
Bill: a gate that measures  
ceremonial gates



Some story mechanism  
w/ 2 waves of creases  
fully making a 1/2 circle  
in 2 steps

## THINGS ON THE FRONT PAGE OF A UNIVERSITY WEBSITE

CAMPUS PHOTO SLIDE SHOW  
ALUMNI IN THE NEWS  
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PRESS RELEASES  
STATEMENT OF THE SCHOOL'S PHILOSOPHY  
LETTER FROM THE PRESIDENT  
VIRTUAL TOUR

## THINGS PEOPLE GO TO THE SITE LOOKING FOR

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CAMPUS ADDRESS  
ACADEMIC CALENDAR  
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# The New York Times

Monday, September 20, 2010 Last Update: 10:07 PM ET



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## Extreme Heat Puts Coral Reefs at Risk, Forecasts Say

By JUSTIN GILLIS 8 minutes ago  
From Thailand to Texas, many corals are reacting to heat stress by shedding their color and going into survival mode, putting the oceans' richest ecosystems and fisheries at risk.

### Where Boys Are Prized, Girls Live the Part

By JENNY NORDBERG

## 2010 Midterm Elections



### OPINION »

#### When a Public Employee Burns a Koran

A worker was fired for his anti-mosque protest. Were his First Amendment rights violated?

- Krugman: The Angry Rich | 1 Comment (1155)
- Douthat: The Pope and the Crowds
- Editorial: Science and the Gulf
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- Disappointed Supporters Question Obama



Carrier 12:15

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What a relief to have an urbane, cultivated, curious president who's out and about, engaged in the world.

**Brainy Echidna Proves Looks Aren't Everything**  
The long-beaked echidna is one of the oldest, rarest, shyest, silliest-looking...

**Smartphone Rises Fast From Gadget to Necessity**  
The increasing popularity of BlackBerrys, iPhones and their kin...

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TOMMY HILFINGER

Woodstock: A Moment of Muddy Grace

Image removed

Larry C. Morris/The New York Times

Woodstock in 1969. More Photos >

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5. David Brooks: The 'Freedom' Agenda  
6. Vital Signs: Regimens: Massage Benefits Are More Than Skin Deep  
7. Keeping Kids Safe From the Wrong Dangers  
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9. For the Unemployed Over 50, Fears of Never Working Again  
10. Sizing Up Consciousness by Its Bits

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Latest News

MUSIC

## Woodstock's Enduring Appeal

By JON PARELES  
Published: August 8, 2009

BABY boomers won't let go of the Woodstock Festival. Why should we? It's one of the few defining events of the late 1960s that had a clear happy ending.

On Aug. 15 to 17, 1969, hundreds of

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gathered in a lovely natural amphitheater in Bethel (not

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3. Gary Danko  
4. PizzaHacker  
5. Smitten Ice Cream  
[...see more»](#)

**Nightlife** 1219 reviewed

**Shopping** 6085 reviewed

1. EDGEWISE arts  
2. Lou's Cafe  
3. Under Glass Custom...  
4. Michael Bruno...  
5. Zoë Bikini  
6. Dr. Kimberly La ...  
[...see more»](#)

**Beauty and Spas** 2998 reviewed

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- Home Services 5617
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- Food 3648
- Beauty and Spas 3071
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- Event Planning & Services 2877
- Arts & Entertainment 2112
- Active Life 1921
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[farmerbrown's little skillet](#)  
farmerbrown's little skillet  
I love Fried Chicken.  
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But I just don't get the concept of having Fried Chicken and Waffles in one plate. Because it sounds repugnant combine together.  
Nevertheless, the two combine is a... [Read more»](#)

Matt G.

Put your hands up! The club...

AT&T 3G 6:08 PM

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e.g. tacos, Max's

San Francisco Mad Check-Ins: Alex P. Latest check-in 1 hour ago

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AT&T 3G 6:15 PM

Home Nearby Monocle

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**1. Farmerbrown's Little Skillet** .6 miles

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## The Duke Of Perth

★★★★★ 277 reviews [Rating Details](#)

Category: Pubs [\[Edit\]](#)  
2913 N Clark St  
(between Oakdale Ave & Surf St)  
Chicago, IL 60657  
Neighborhood: Lakeview  
[\(773\) 477-1741](tel:(773)477-1741)  
[dukeofperth.com](http://dukeofperth.com)

Nearest Transit: Wellington (Purple Express, Brown)  
Hours: Mon 5 pm - 2 am, Tue-Fri, Sun 12 pm - 2 am, Sat 12 pm - 3 am  
Accepts Credit Cards: Yes

Price Range: \$\$  
Parking: Street  
Good for Groups: Yes  
Wheelchair Accessible: Yes  
Outdoor Seating: Yes

Best Nights: Mon, Wed, Fri  
Happy Hour: No  
Alcohol: Full Bar  
Smoking: No  
Coat Check: No

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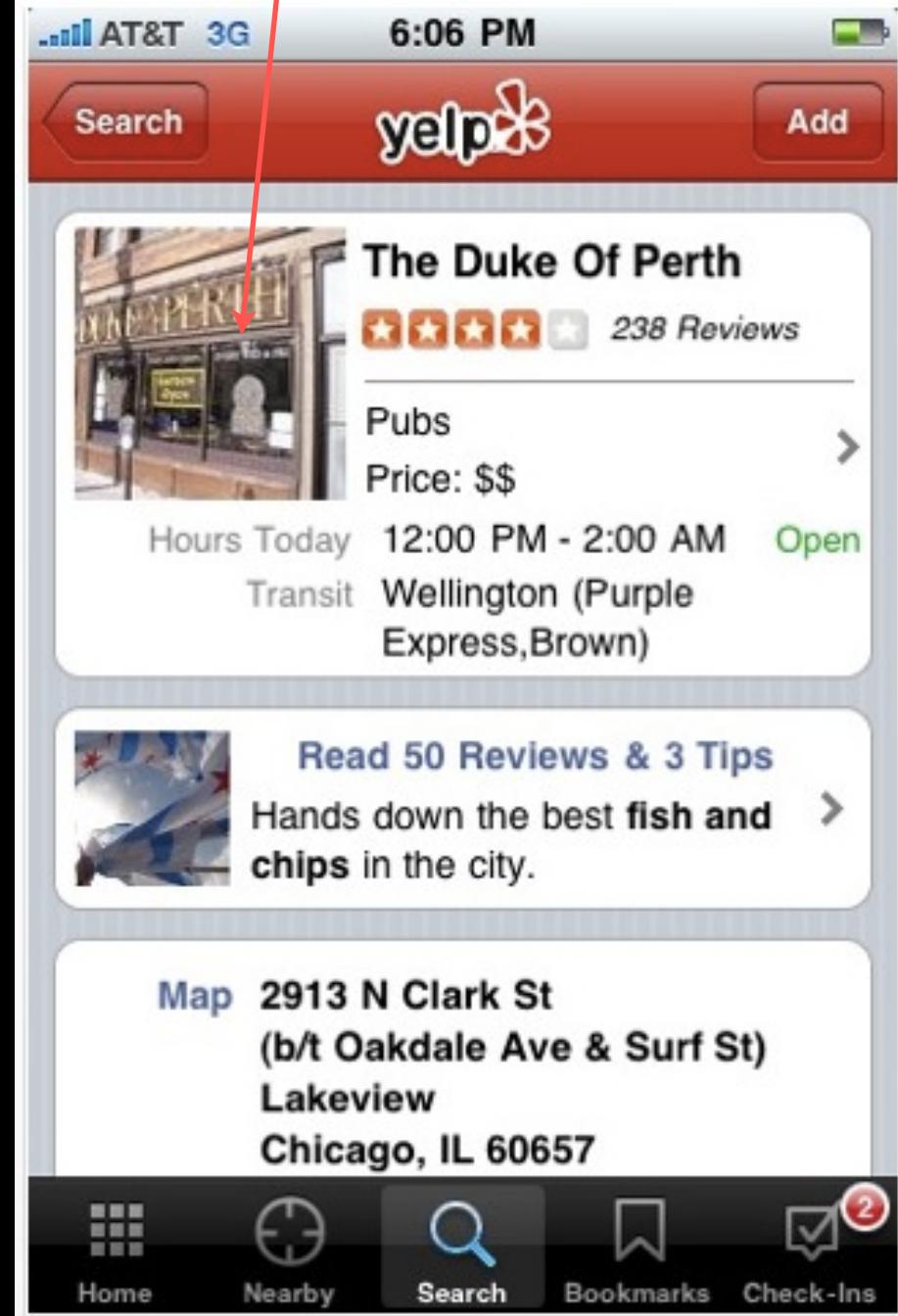
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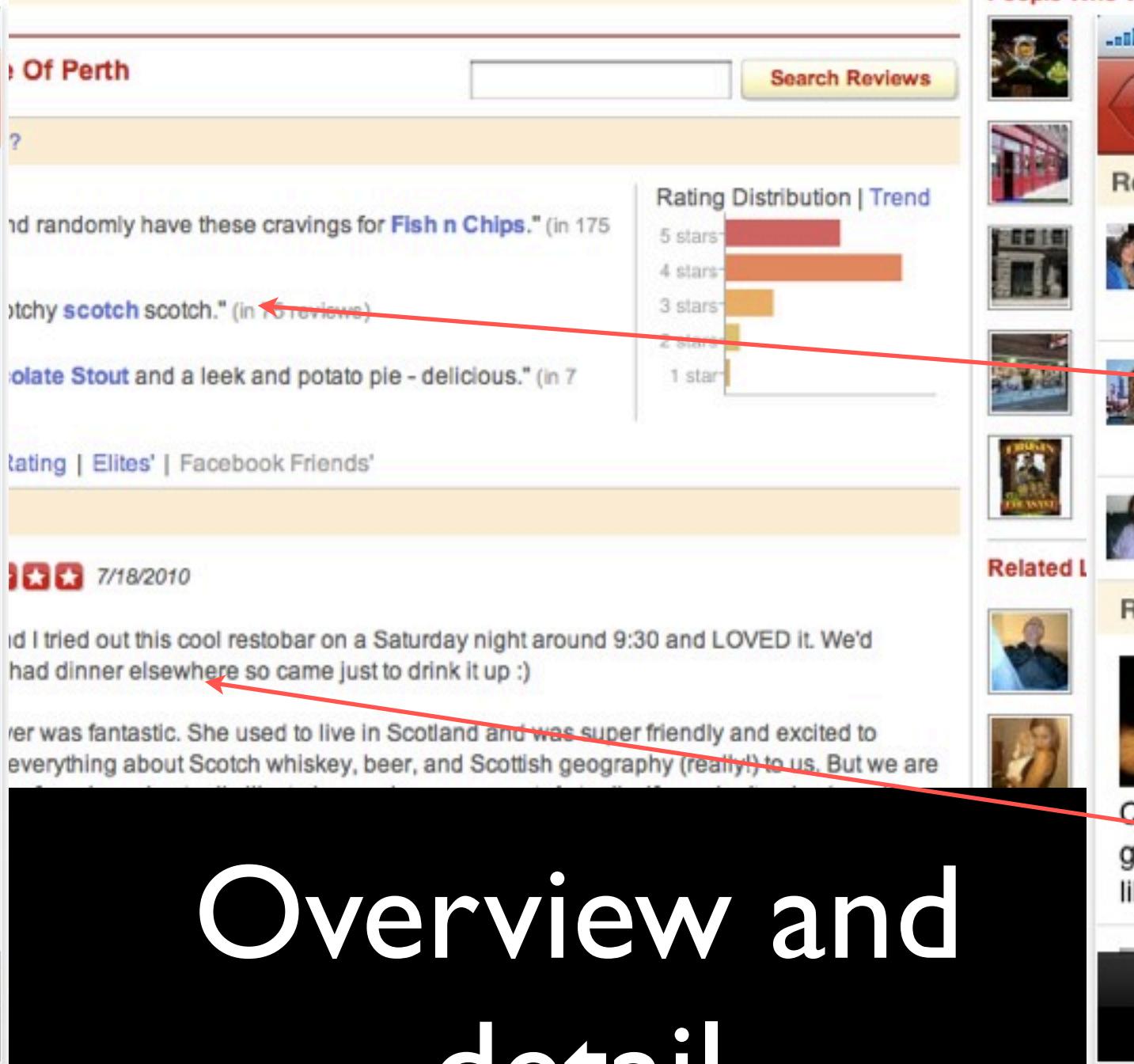
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Vatican Bank 'being investigated'  
about 4 hours ago

- Senate blocks gay policy debate
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- UN raps probe into Gaza conflict
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- Betancourt's book recounts ordeal

**Sport**

Live - Carling Cup  
about 3 hours ago

- British teams raise Delhi doubts
- England demand apology from Butt
- English trio out of Commonwealths
- Portugal appoint Bento as coach
- Matthaus to be new Bulgaria coach
- Nadal to play at Queen's in 2011
- Benitez slams Liverpool hierarchy

**Business**

MARKET DATA TUE, 21 SEP 2010 21:33 BST

	Dow Jones	10761.03	▲ 7.41
Nasdaq	2349.35	▼ -6.48	
FTSE 100	5576.19	▼ -26.35	
Dax	6275.98	▼ -18.6	
Cac 40	3784.4	▼ -3.61	

STERLING EXCHANGE RATES

	Dollar	1.5618	▲ 0.0072
Euro	1.4780	▼ -0.0112	

There is no engine, but they can still race in less than five seconds. Could electric be the future of the sport?

- Watch: Ewan McGregor flies a Spitfire
- Video: Plane lands on Atlanta highway
- One-minute World News

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Gay-rights advocates lose a crucial opportunity to overturn the military's policy. 'A political train wreck' »

**Huge defeat for gay groups**

**'Deadliest Catch' stars sued**

**Hunter stirs alarm with gator**

**CITY OF BELL**

**Calif. city officials arrested**

**NEWS WORLD LOCAL FINANCE**

- Fed signals it will provide more economic relief if needed
- Iran leader Ahmadinejad blames capitalism for poverty
- Helicopter crash marks grim milestone in Afghan war
- Obama awards posthumous Medal of Honor to Pa. airman
- Teacher bonuses don't boost student test scores, study finds
- Fla. dad apologizes for storming school bus, confronting kids
- Jets WR Edwards arrested for DWI - New York Daily News
- Elite For-Profit Schools Chase a Growing Market - N.Y. Times
- Lindsay Lohan Satisfied With E-Trade... - CBS New York
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**Wrinkle Creams Exposed**  
Beauty User ranks the top wrinkle creams of 2010. See who's #1.

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**598** 598 is bad, 750 is good. See your credit score at [freecreditscore.com](http://freecreditscore.com)

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2. Interest Rates
3. Home Builders
4. Natasha Pettigrew
5. Lindsay Lohan
6. Bob Barker
7. Jennifer Grey
8. Michael Douglas
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10. Satellite Phone

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**Dynamic duos: Latest celebrity photos**

Eva & Tony take a stroll around Paris

Hollywood's hottest celeb couples

Jay-Z & Chris Martin team up on stage

Diddy & Mark suit up in style at NYC show

1 of 3

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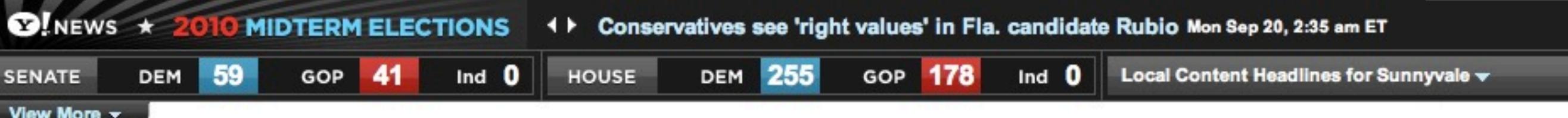
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## Poll finds voters' mood on economy is grim -- for both parties

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– Tue Sep 21, 7:10 am ET



ABC News – Poll: Economy &amp; Do You Want Your Kid In Congress?

By JANE SASSEEN  
Yahoo! News

With the economy clearly the big issue on voters' minds, Democrats and Republicans alike are ramping up the rhetoric with only six weeks to go before critical midterm elections that will determine who controls Congress.

Yet Americans surveyed in the first of a series of ABC News/Yahoo! News polls, released early Tuesday, have a message for both sides: Many respondents — including a clear majority of independents, who have provided the critical swing votes in many recent elections — have little confidence in either party's ability to do more for the economy.

Since Labor Day, President Barack Obama has focused intently on the economy, proposing a host of stimulus measures and warning in a series of combative speeches that a win for Republicans will mean

**Top Stories**

- Republicans block bill to lift military gay ban
- White House adviser Summers stepping down
- Poll finds voters' mood on economy is grim -- for both parties

Carrier 1:47 PM

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Poll finds voters' mood on economy is grim -- for both parties

Exclusive to Yahoo! News - Tue Sep 21st, 2010 7:10 AM EDT

By JANE SASSEEN

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# Sherlock Holmes Baffled

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[3 Rediscovery](#)

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Action

Carrier



4:48 PM



## Today's Featured Article



**Sherlock Holmes Baffled** is a very short silent film created between 1900 and 1903, with cinematography by Arthur Marvin. It is the earliest-known film to feature the character of **Sherlock Holmes**, albeit in a form unlike later screen incarnations of Conan Doyle's detective. The inclusion of the character also makes it the first recorded detective film. In the film, a thief who can appear and disappear at random steals a sack of items from Sherlock Holmes. At each point, Holmes' attempts to thwart the intruder end in failure. Originally intended to be shown on the **Mutoscope**, an early motion picture device which provided viewing to only one person

**Sherlock Holmes Baffled** is a very short American silent film created between 1900 and 1903, with cinematography by Arthur Marvin. It is the earliest known film to feature Arthur Conan Doyle's detective character **Sherlock Holmes**, albeit in a form unlike that of later screen incarnations.<sup>[1]</sup> The inclusion of the character also makes it the first recorded detective film.<sup>[1][2]</sup> In the film, a thief who can appear and disappear at will steals a sack of items from Sherlock Holmes. At each point, Holmes' attempts to thwart the intruder end in failure.<sup>[3]</sup>

Originally shown in **Mutoscope** machines in arcades, **Sherlock Holmes Baffled** has a running time of 30 seconds. Although produced in 1900, it was only registered in 1903, and a copyright notice stating this is seen on some prints.<sup>[3]</sup> The identities of the first screen Holmes and his assailant are not recorded. Assumed to be lost for several years, the film was rediscovered in 1968 as a paper print in the Library of Congress.<sup>[4]</sup>

### Sherlock Holmes Baffled



Holmes first encounters the intruder.

Directed by Arthur Marvin

Written by Arthur Conan Doyle  
(character)

Cinematography Arthur Marvin

Distributed by American Mutoscope  
and Biograph Company

Release date(s) 1900–1903

Originally shown in **Mutoscope** machines in arcades, **Sherlock Holmes Baffled** has a running time of 30 seconds. Although produced in 1900, it was only registered in 1903, and a copyright notice stating this is seen on some prints.<sup>[3]</sup> The identities of the first screen Holmes and his assailant are not recorded. Assumed to be lost for several years, the film was rediscovered in 1968 as a paper print in the Library of Congress.<sup>[4]</sup>

Biograph Company and was intended to be shown on the **Mutoscope**, an early motion picture device which provided viewing to only one person at a time. The Mutoscope did not project on a screen, and provided viewing to only one person at a time. The Mutoscope Company quickly dominated the coin-in-the-slot "peep-show" business.<sup>[6]</sup> The **Mutoscope** was a hand-operated device, with individual image frames printed onto flexible cards attached to a circular core which could be viewed through a viewer.

Show **Action**

Show **Production**

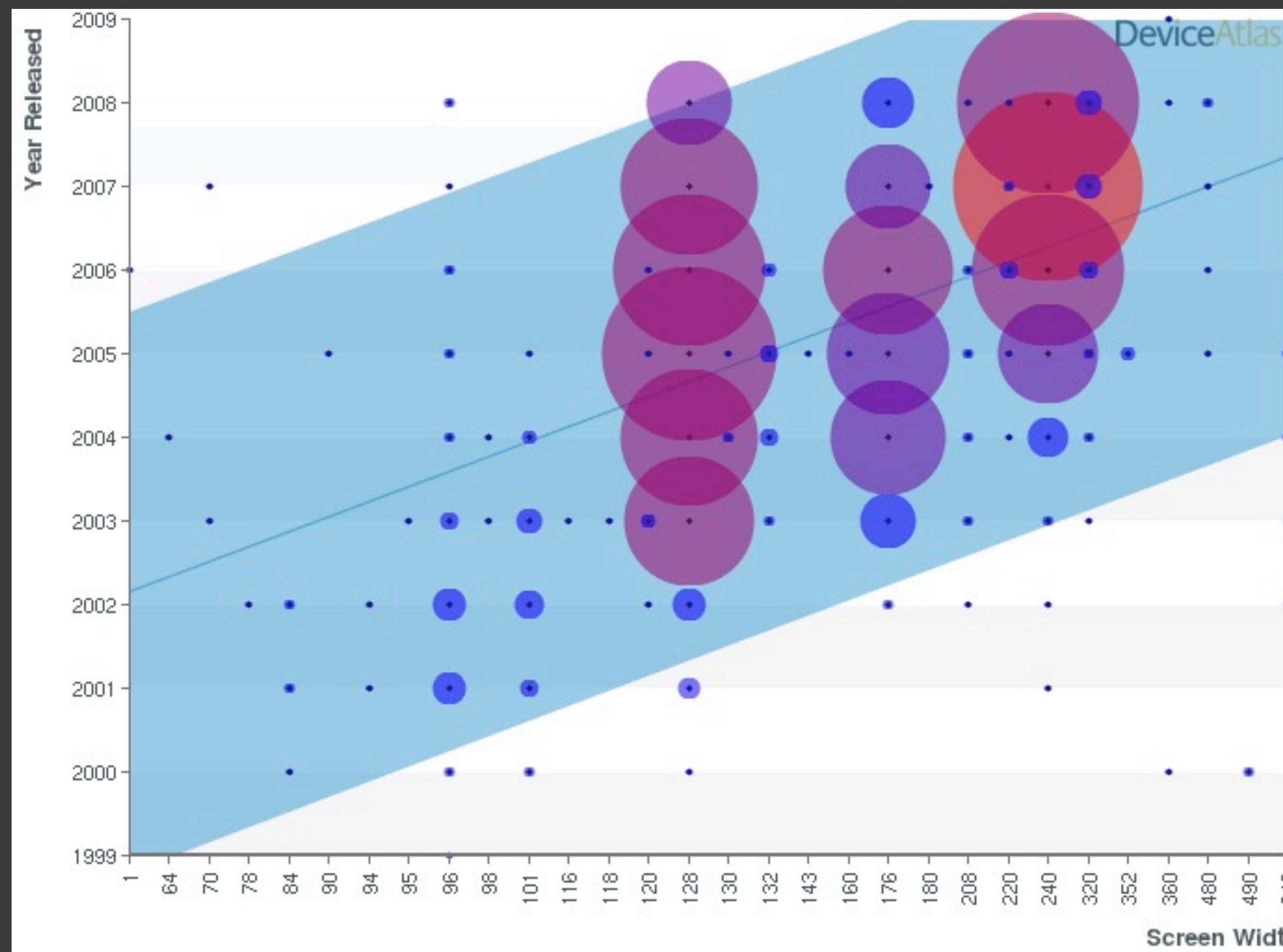
Show **Rediscovery**

Show **Analysis**

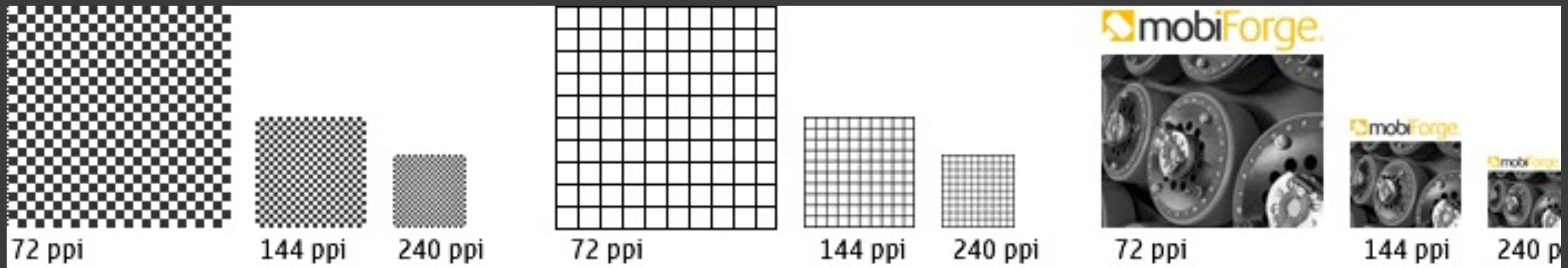
Show **References**



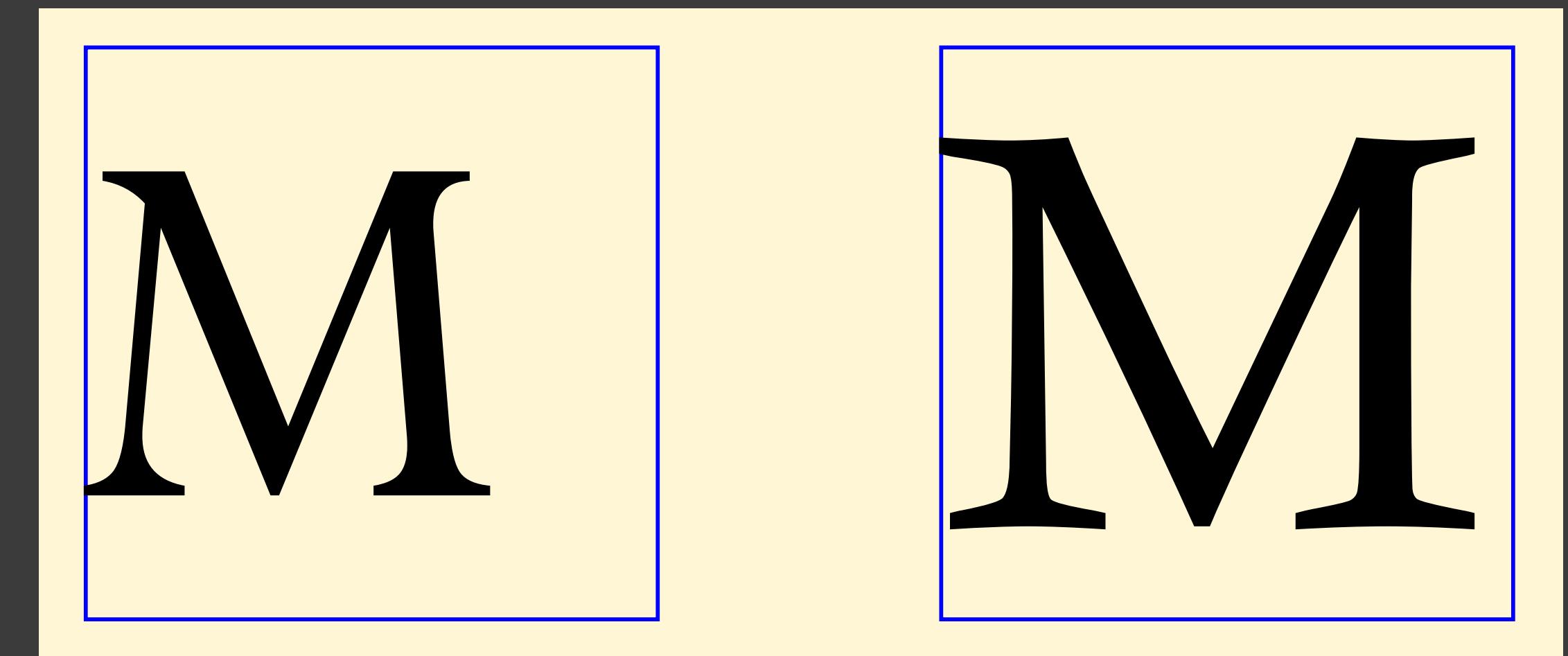
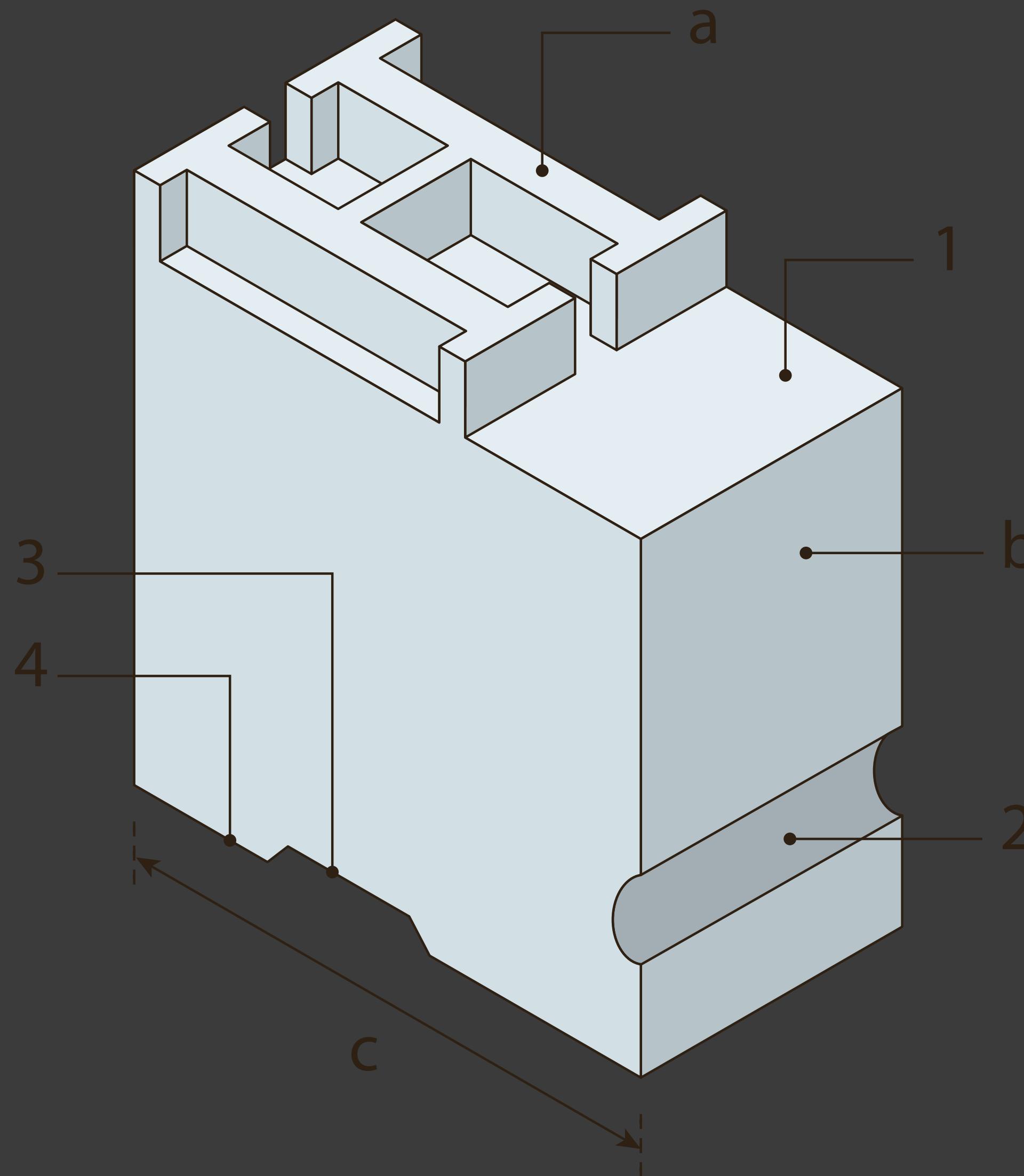
# Mobile Screen Resolutions Are Improving



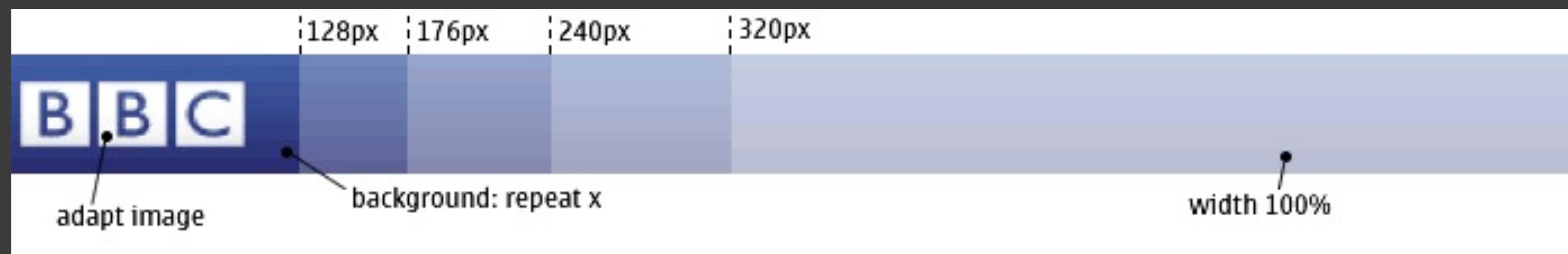
# The Problem with Pixels



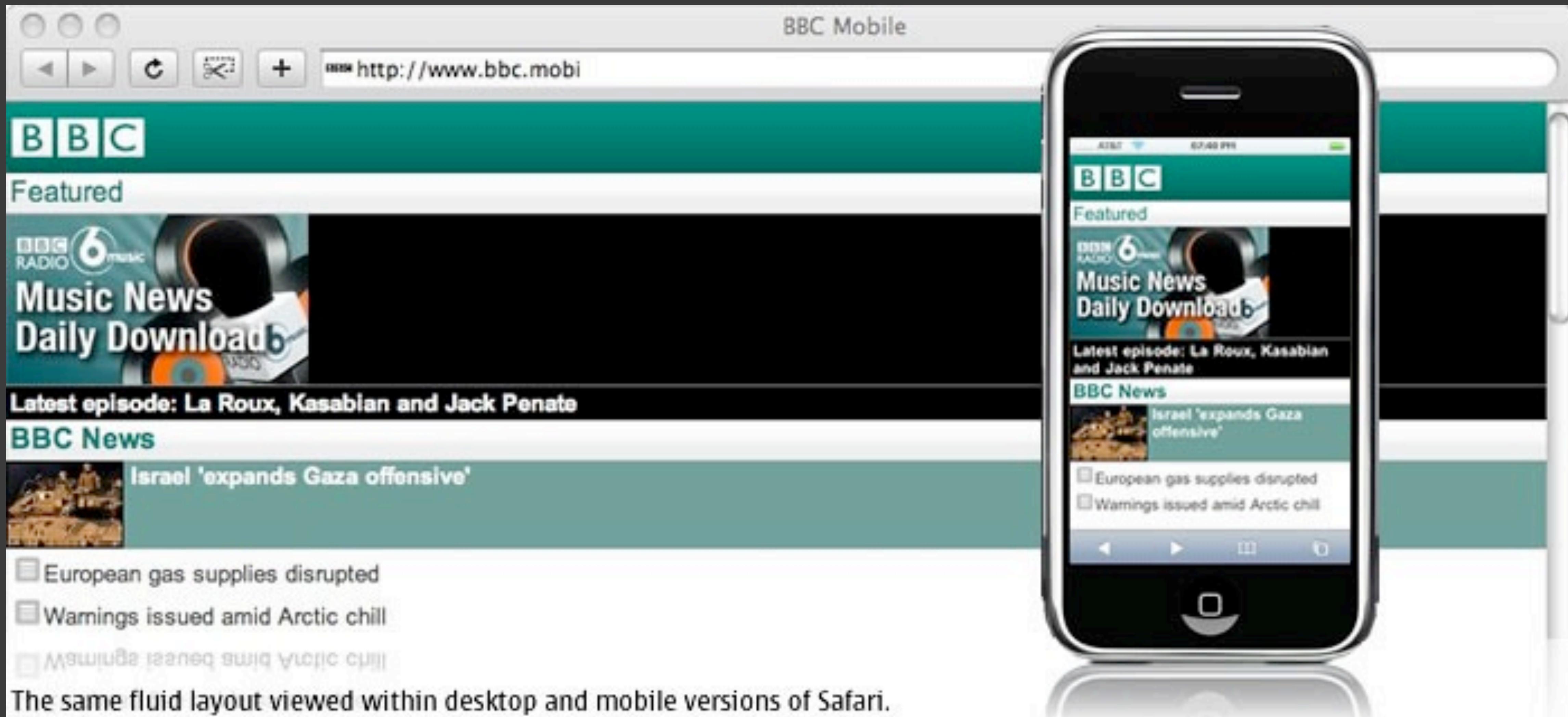
# The value of designing with em's



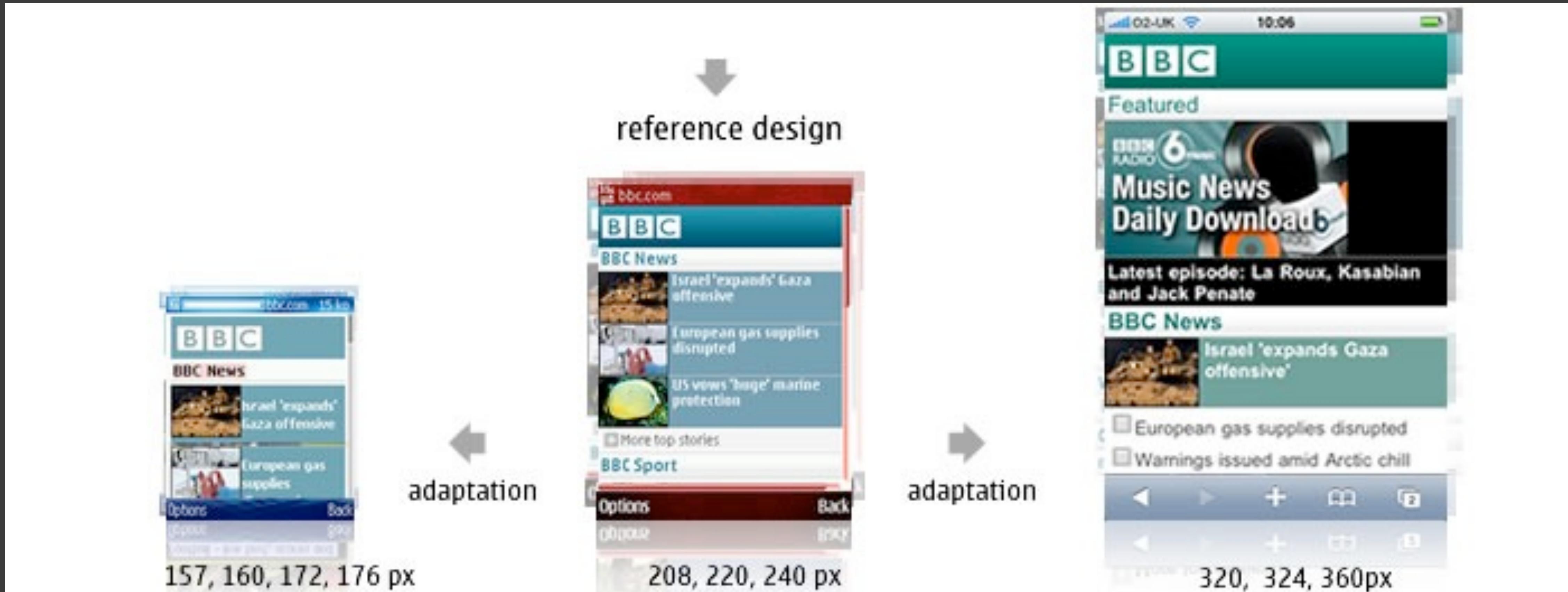
# Create Flexible Assets



# Create Fluid Layouts



# Create a Reference Design



# Putting it Together

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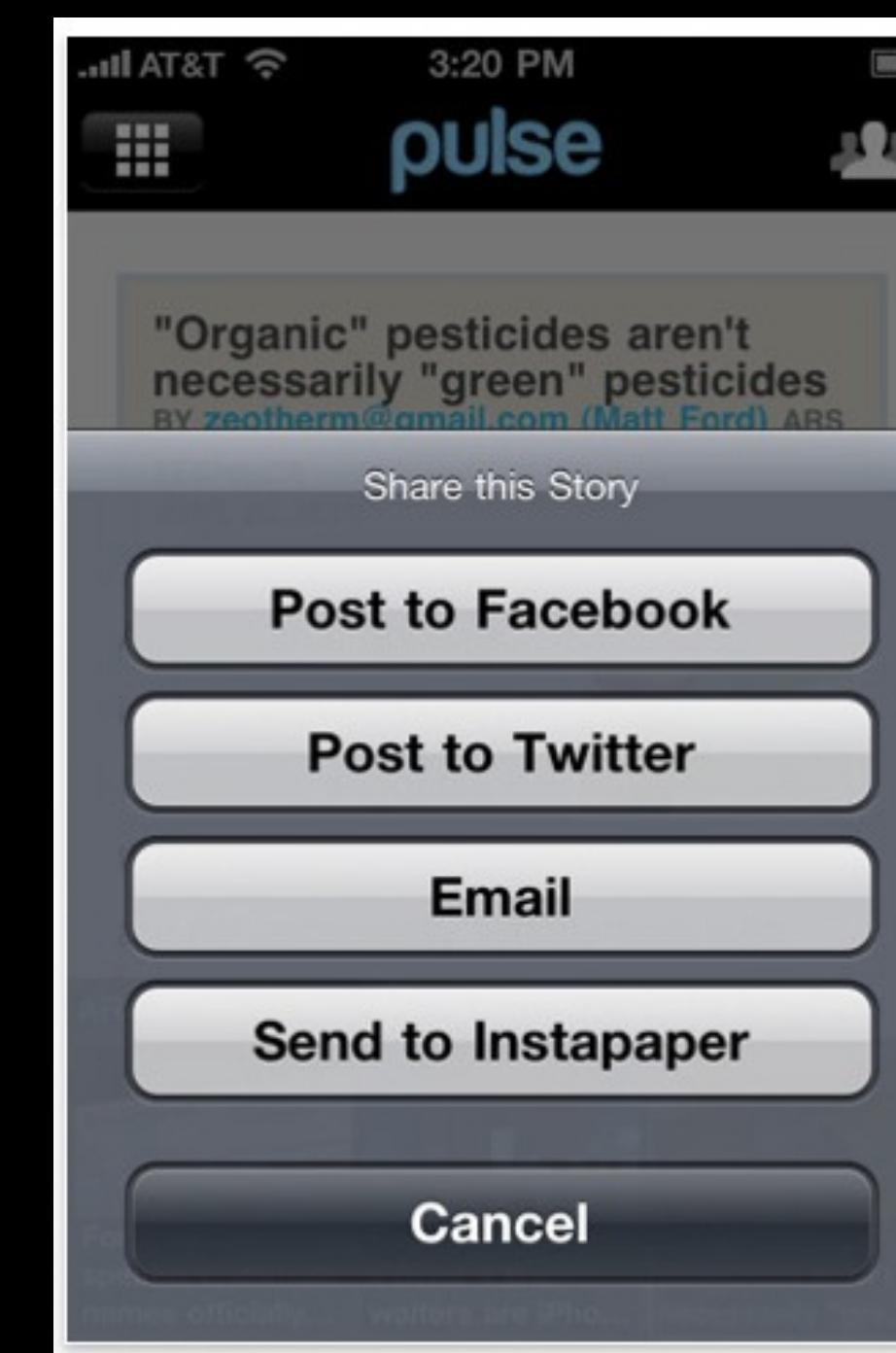
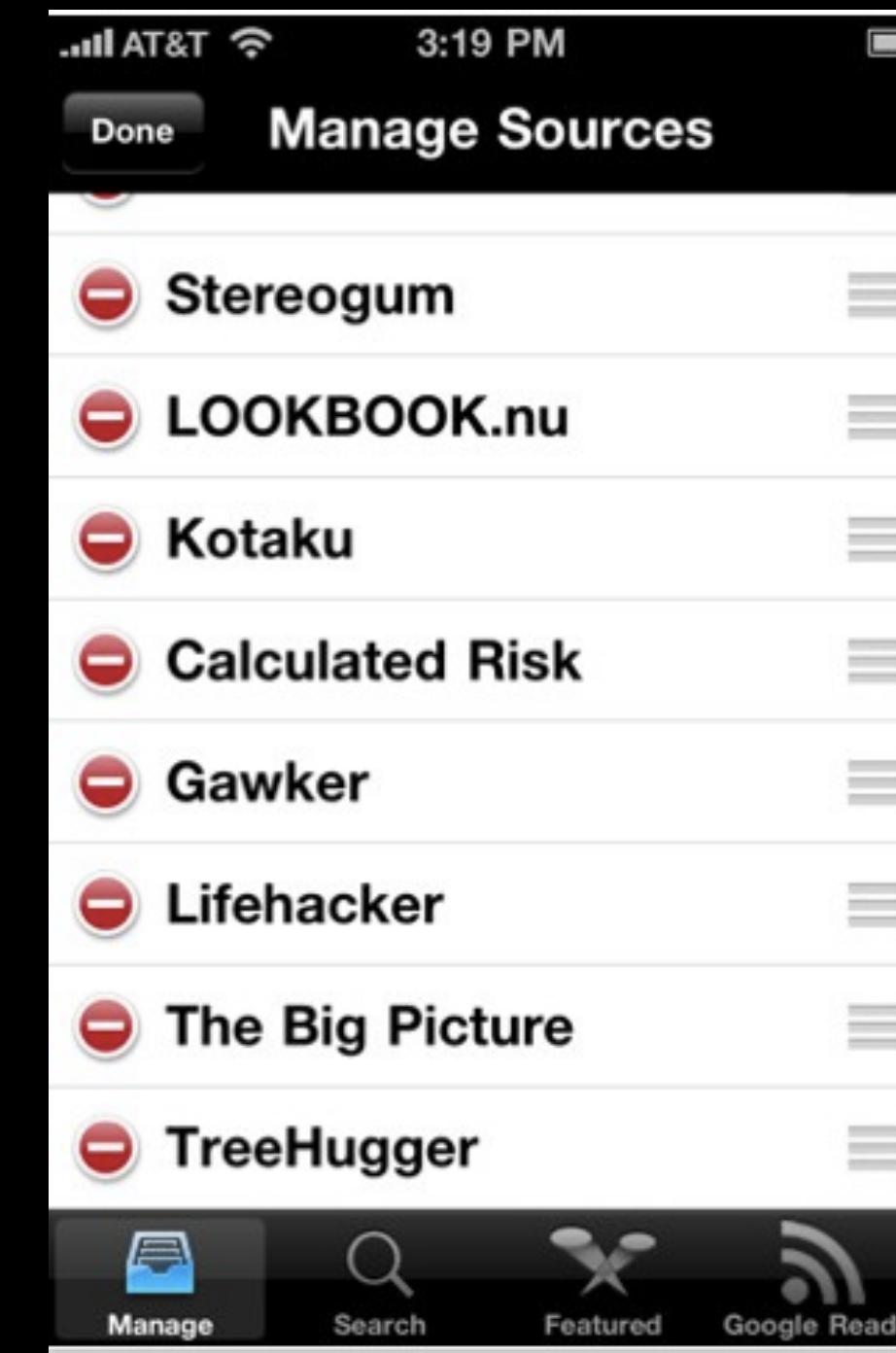
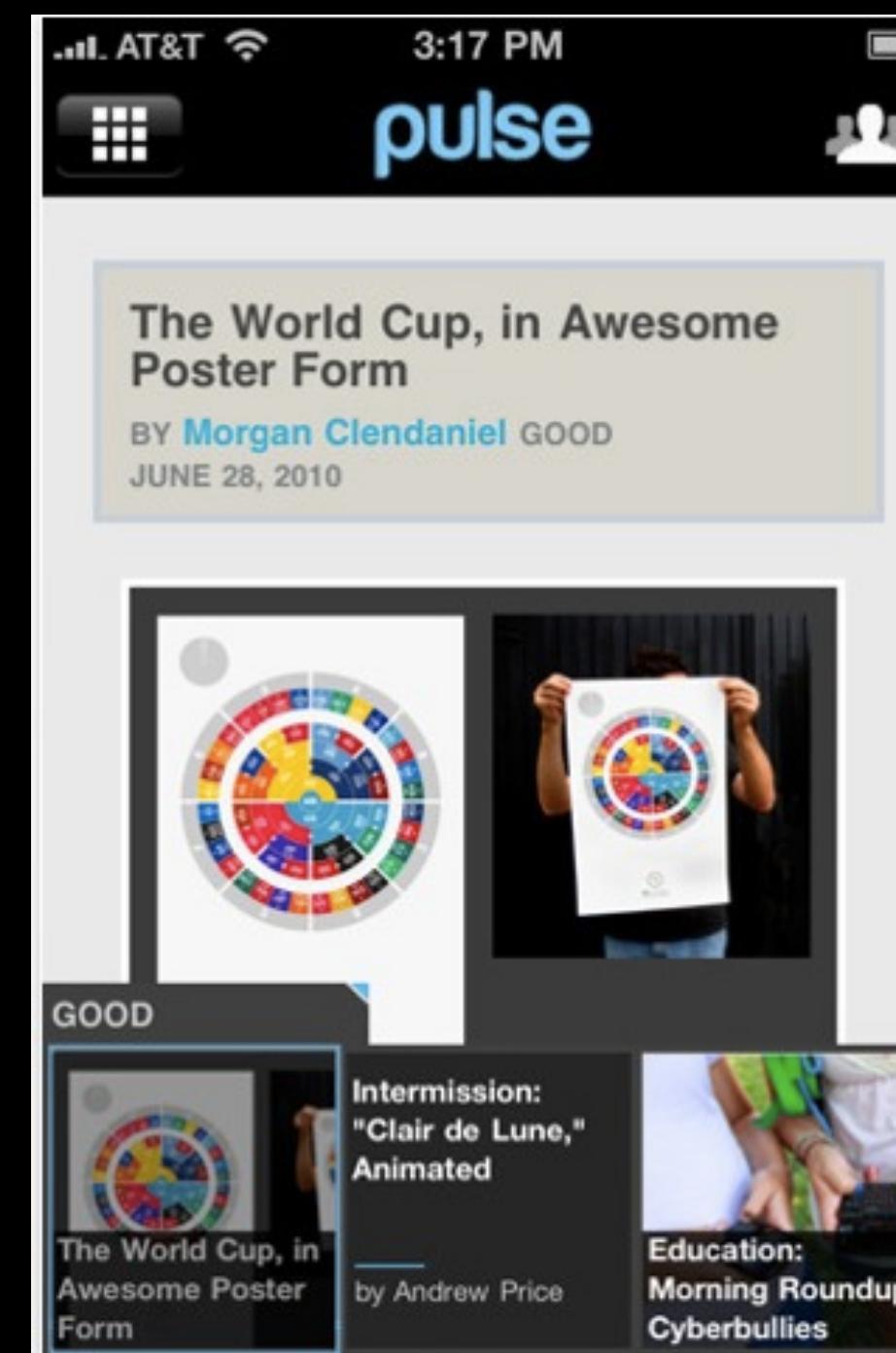
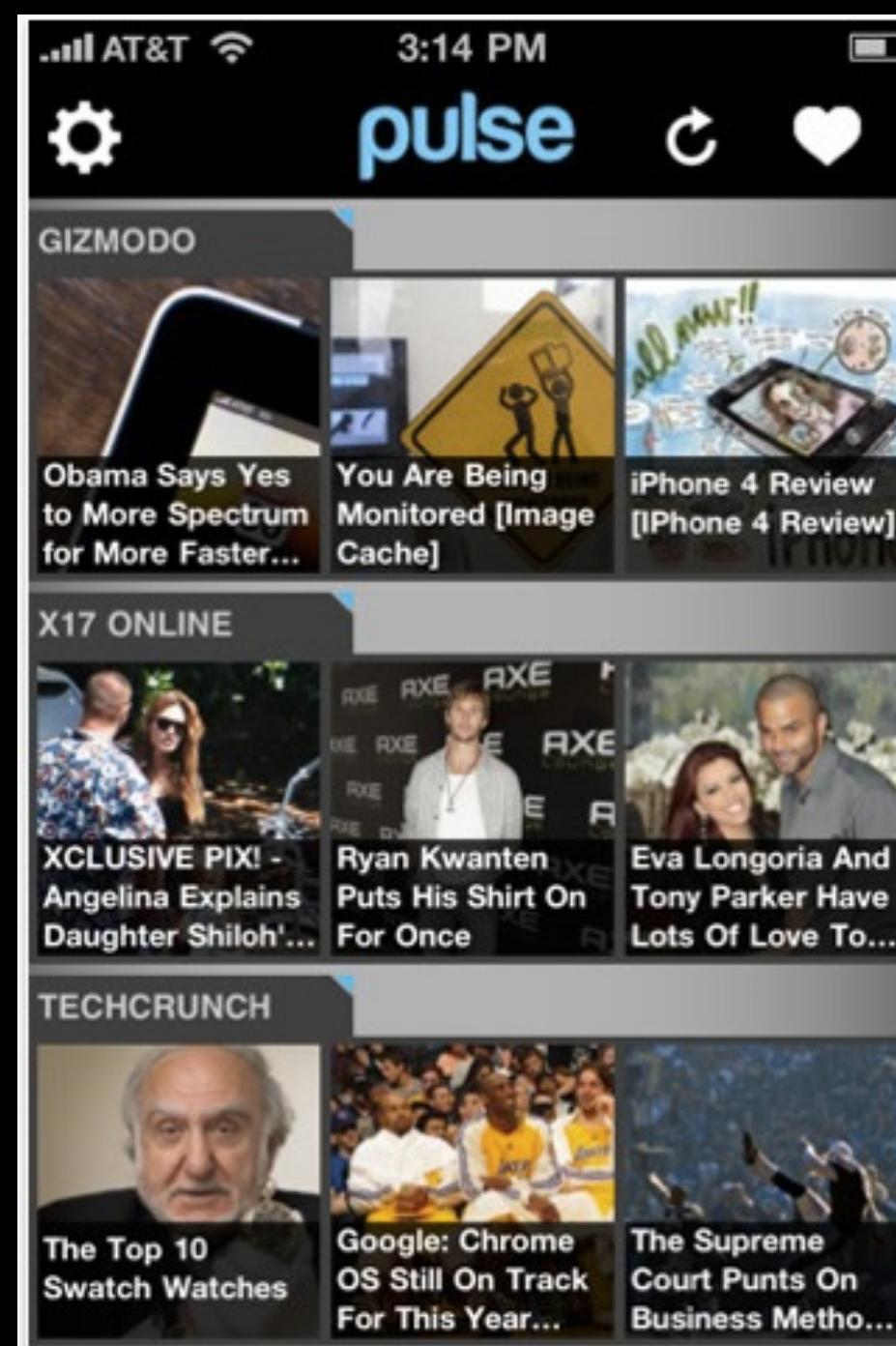
- Device 1 (Apple iPhone):** 320 x 480 px. Shows the BBC homepage with a green header, a "Music News Daily Download" section, and a "BBC News" section with a "Israel 'expands Gaza offensive'" story.
- Device 2 (Nokia 5800 XpressMusic):** 360 x 640 px. Shows the BBC News page with stories about the Gaza offensive, European gas supplies, and US marine protection.
- Device 3 (Nokia N97):** 240 x 320 px. Shows a simplified BBC News page with the same three main stories.
- Device 4 (Nokia 6680):** 176 x 208 px. Shows a very compact version of the BBC News page with the same three main stories.

Callouts numbered 1 through 5 point to various UI elements:

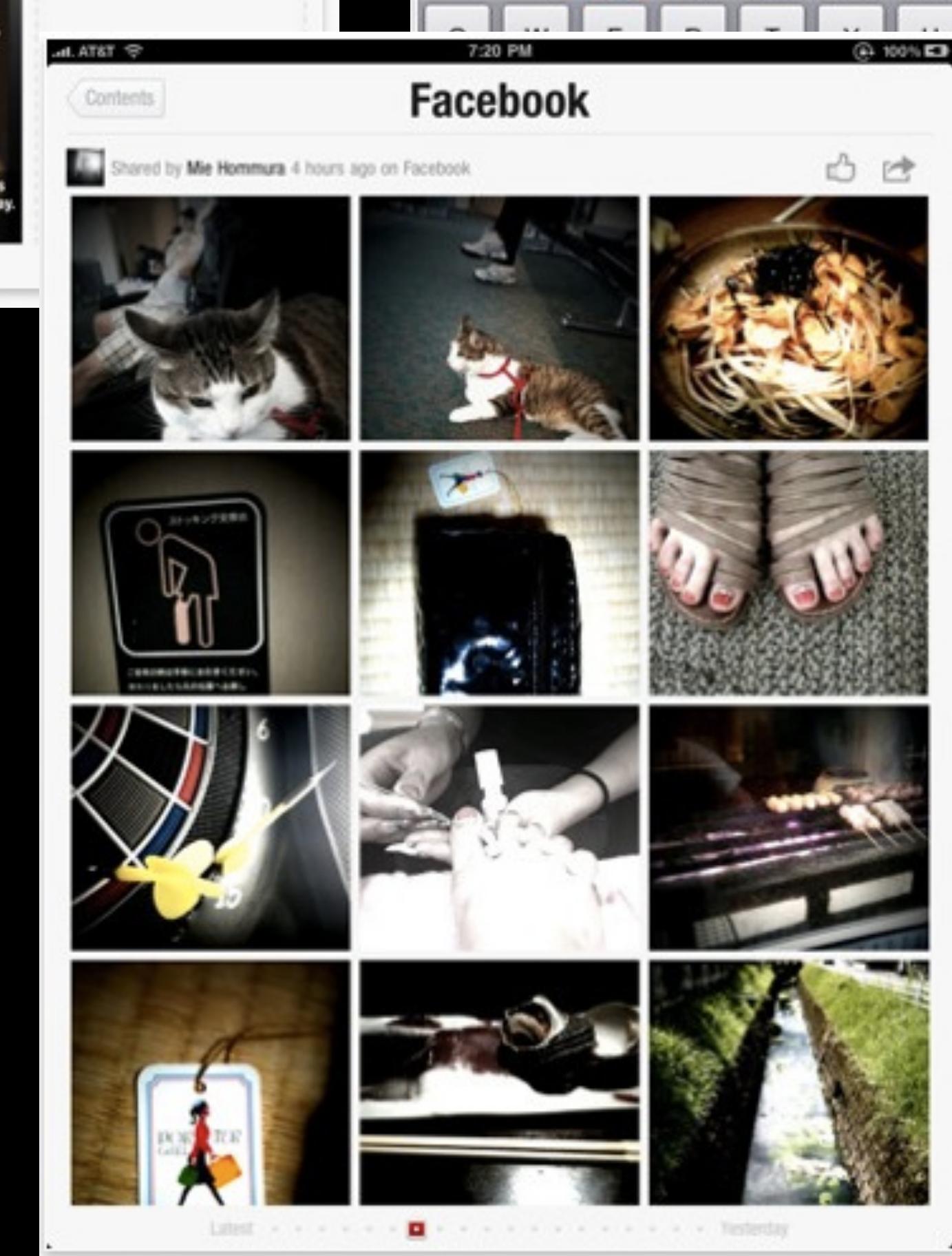
- 1:** BBC logo in the header.
- 2:** Navigation menu or tabs in the header.
- 3:** Story title in the news feed.
- 4:** Image thumbnail for a story.
- 5:** Link or button for more stories.

# Site agnostic viewers

Specific to device rather than the website



# Text



Reduce content to a  
magazine format



# Example-Powered Creation



Joel Brandt *et al.*

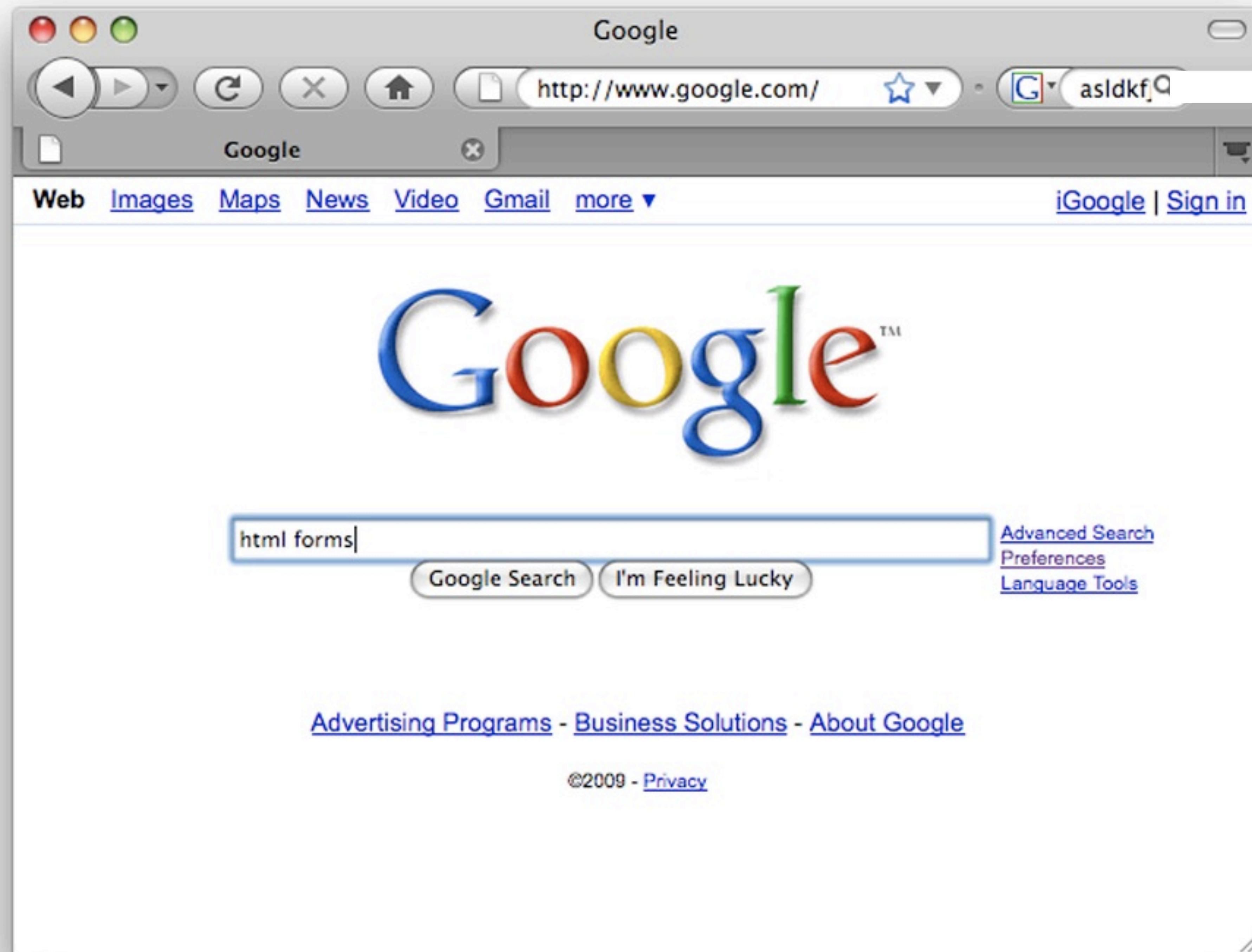
**Example-Centric Programming: Integrating Web Search into the Development Environment**, Joel Brandt, Mira Dontcheva, Marcos Weskamp, Scott R. Klemmer. *CHI: ACM Conference on Human Factors in Computing Systems*, 2010

**Opportunistic Programming: Writing Code to Prototype, Ideate, and Discover**, Joel Brandt, Philip J. Guo, Joel Lewenstein, Mira Dontcheva, and Scott R. Klemmer. *IEEE Software*, 2009

**Two Studies of Opportunistic Programming: Interleaving Web Foraging, Learning, and Writing Code**, Joel Brandt, Philip J. Guo, Joel Lewenstein, Mira Dontcheva, and Scott R. Klemmer. *CHI: ACM Conference on Human Factors in Computing Systems*, 2009



*“good grief, I don’t  
even remember the  
syntax for forms!”*



Google

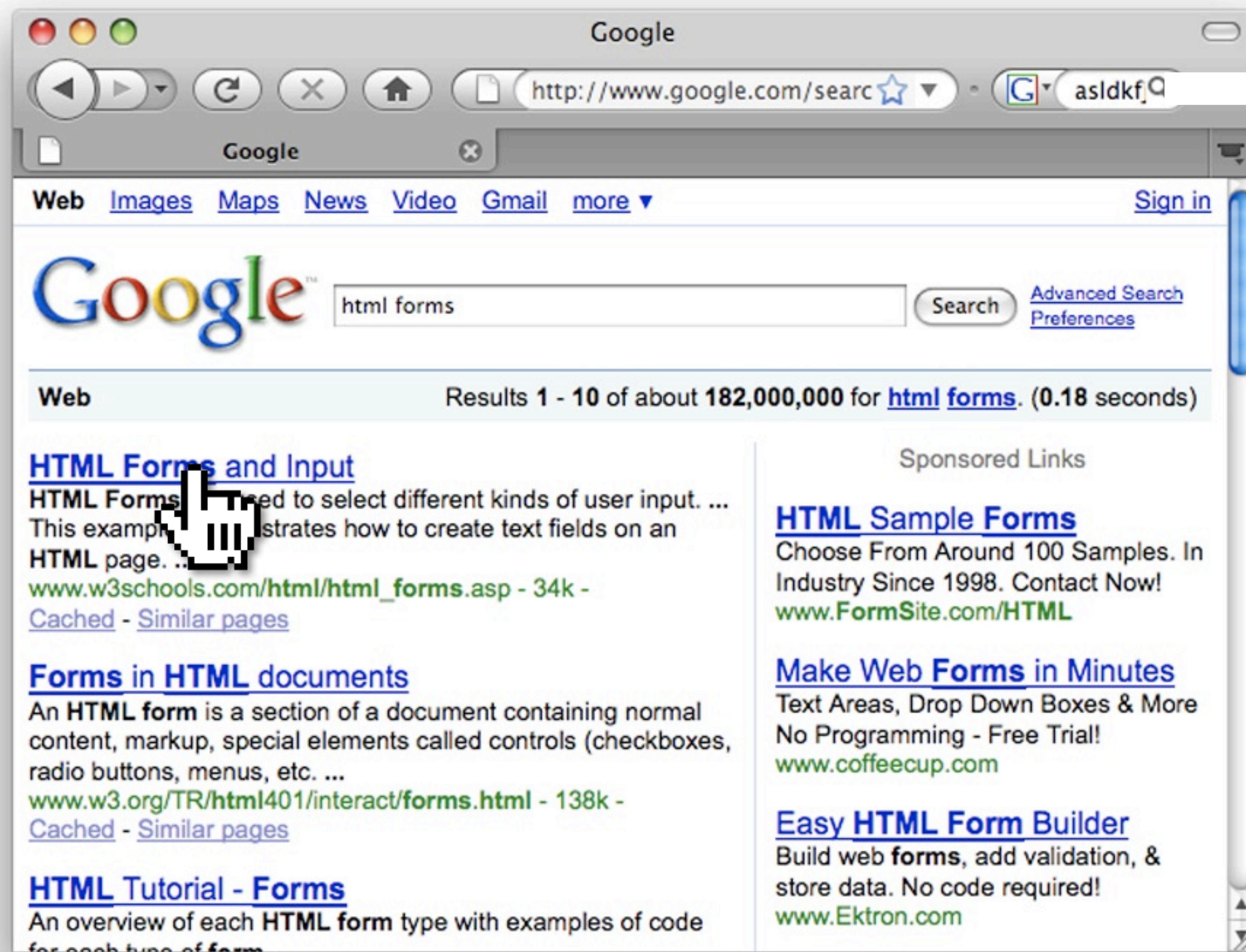
http://www.google.com/search asldkfj

Google

Web Images Maps News Video Gmail more ▾ Sign in

**Google** html forms Search Advanced Search Preferences

**Web** Results 1 - 10 of about 182,000,000 for [html forms](#). (0.18 seconds)

**[HTML Forms and Input](#)**  
HTML Forms used to select different kinds of user input. ...  
This example demonstrates how to create text fields on an  
HTML page.  
  
[www.w3schools.com/html/html\\_forms.asp](http://www.w3schools.com/html/html_forms.asp) - 34k -  
[Cached](#) - [Similar pages](#)

**[Forms in HTML documents](#)**  
An **HTML form** is a section of a document containing normal content, markup, special elements called controls (checkboxes, radio buttons, menus, etc. ...  
[www.w3.org/TR/html401/interact/forms.html](http://www.w3.org/TR/html401/interact/forms.html) - 138k -  
[Cached](#) - [Similar pages](#)

**[HTML Tutorial - Forms](#)**  
An overview of each **HTML form** type with examples of code for each type of form

Sponsored Links

**[HTML Sample Forms](#)**  
Choose From Around 100 Samples. In Industry Since 1998. Contact Now!  
[www.FormsSite.com/HTML](http://www.FormsSite.com/HTML)

**[Make Web Forms in Minutes](#)**  
Text Areas, Drop Down Boxes & More  
No Programming - Free Trial!  
[www.coffeecup.com](http://www.coffeecup.com)

**[Easy HTML Form Builder](#)**  
Build web **forms**, add validation, & store data. No code required!  
[www.Ektron.com](http://www.Ektron.com)

HTML Forms and Input

<http://www.w3schools.com/html> asldkfj

**HTML Forms and Input**

**HTML Colorvalues** (You can find more examples at the bottom of this page)

**HTML Quick List**

**HTML Advanced**

- [HTML Layout](#)
- [HTML Frames](#)
- [HTML Fonts](#)
- [HTML 4.0 Why](#)
- [HTML CSS](#)
- [HTML Entities](#)
- [HTML Head](#)
- [HTML Meta](#)
- [HTML URLs](#)
- [HTML Scripts](#)
- [HTML Attributes](#)
- [HTML Events](#)
- [HTML URL Encode](#)
- [HTML Webserver](#)
- [HTML Summary](#)

**HTML Examples**

- [HTML Examples](#)
- [HTML Quiz](#)
- [HTML Certificate](#)

**Forms**

A form is an area that can contain form elements.

Form elements are elements that allow the user to enter information (like text fields, drop-down menus, radio buttons, checkboxes, etc.) in a form.

A form is defined with the `<form>` tag.

```
<form>
  .
  input elements
  .
</form>
```

**Input**

The most used form tag is the `<input>` tag. The type of input is specified with the `type` attribute. The most commonly used input types are explained below.

**Text Fields**

HTML Forms and Input

http://www.w3schools.com/html asldkfj

## The Form's Action Attribute and the Submit Button

When the user clicks on the "Submit" button, the content of the form is sent to the specified URL. The form's action attribute defines the name of the file to send the content to. The file specified in the action attribute usually does something with the received input.

```
<form name="input" action="html_form_submit.asp" method="get">
  Username:
  <input type="text" name="user" />
  <input type="submit" value="Submit" />
</form>
```

How it looks in a browser:

Username:

If you type some characters in the text field above, and click the "Submit" button, the page will send your input to a page called "html\_form\_submit.asp". The page will show the received input.

 More Examples

HTML Forms and Input

http://www.w3schools.com/html asldkfj

## The Form's Action Attribute and the Submit Button

When the user clicks on the "Submit" button, the content of the form is sent to the specified URL. The form's action attribute defines the name of the file to send the content to. The file specified in the action attribute usually does something with the received input.

```
<form name="input" action="html_form_submit.asp" method="get">
    Username: <input type="text" name="user" />
    <input type="submit" value="Submit" />
</form>
```

How it looks in a browser:

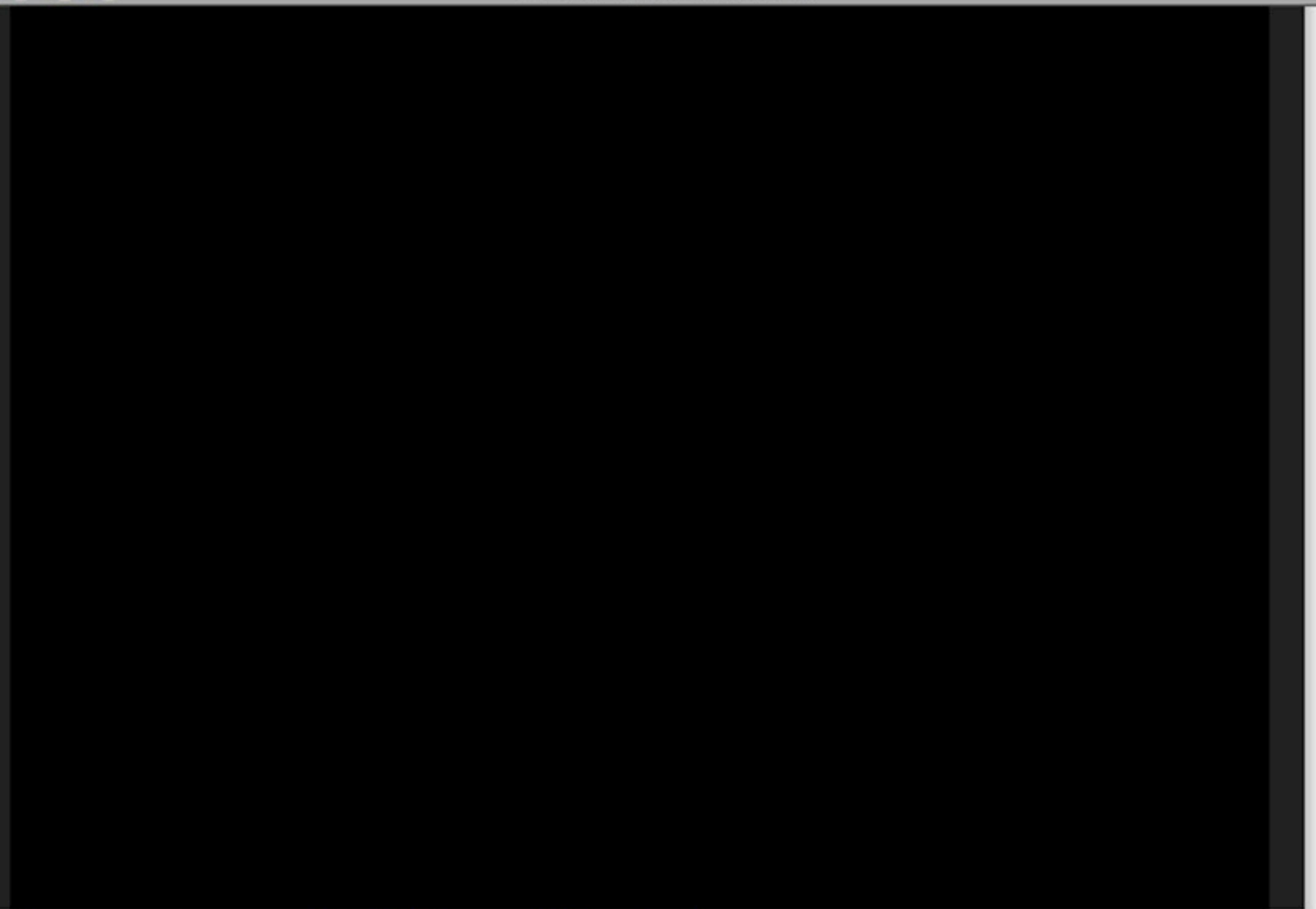
Username:

If you type some characters in the text field above, and click the "Submit" button, the page will send your input to a page called "html\_form\_submit.asp". The page will show the received input.

 More Examples



Emacs@visavis.local



-1:-- chat.php

All (1,0)

(PHP Abbrev)-----

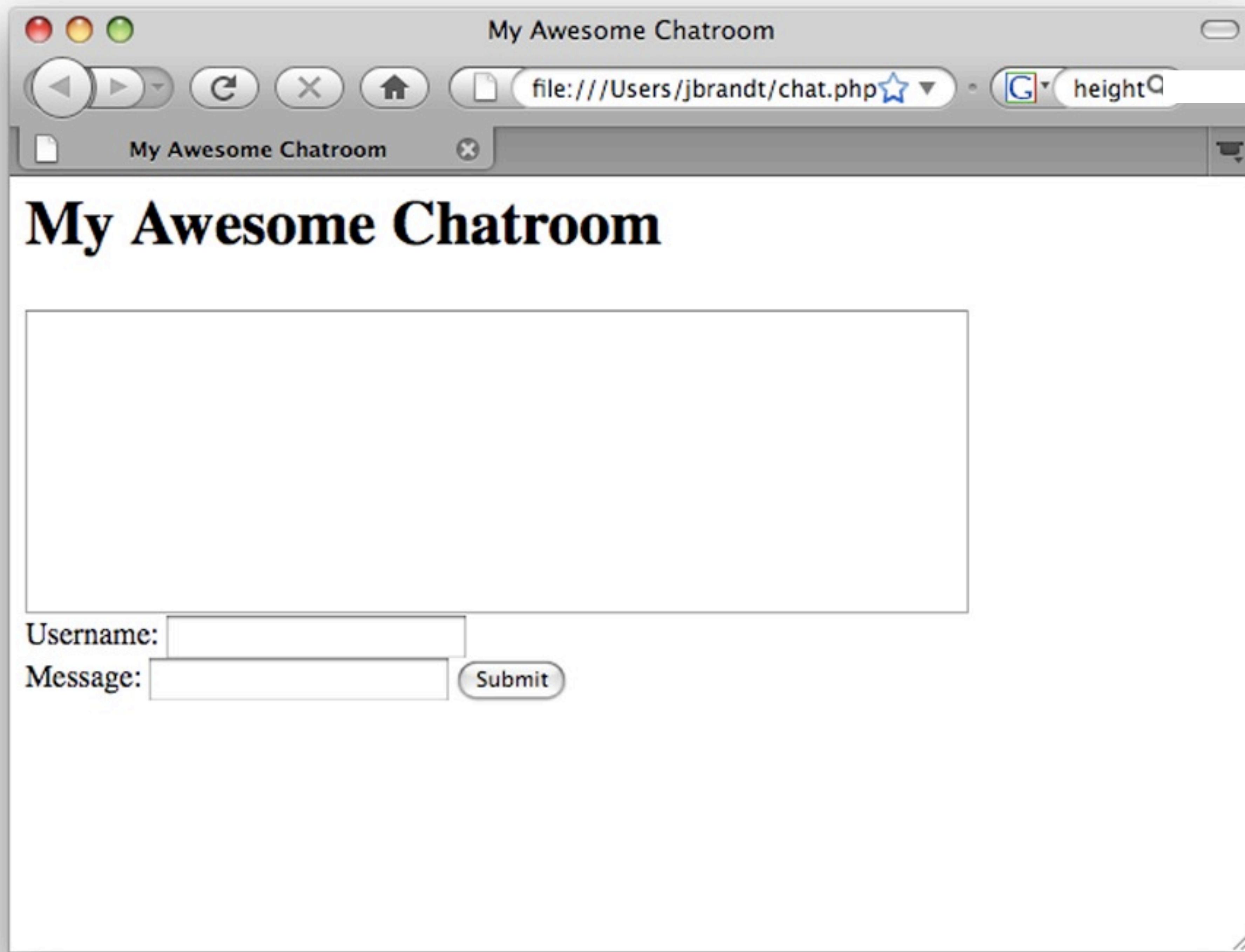


Emacs@visavis.local

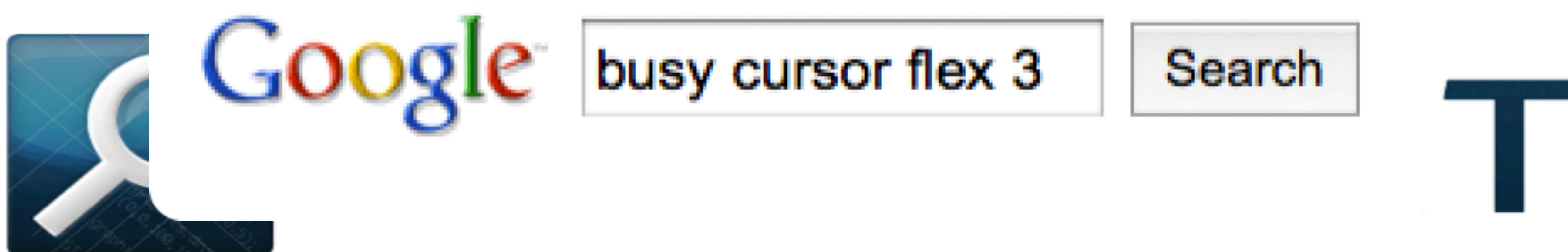
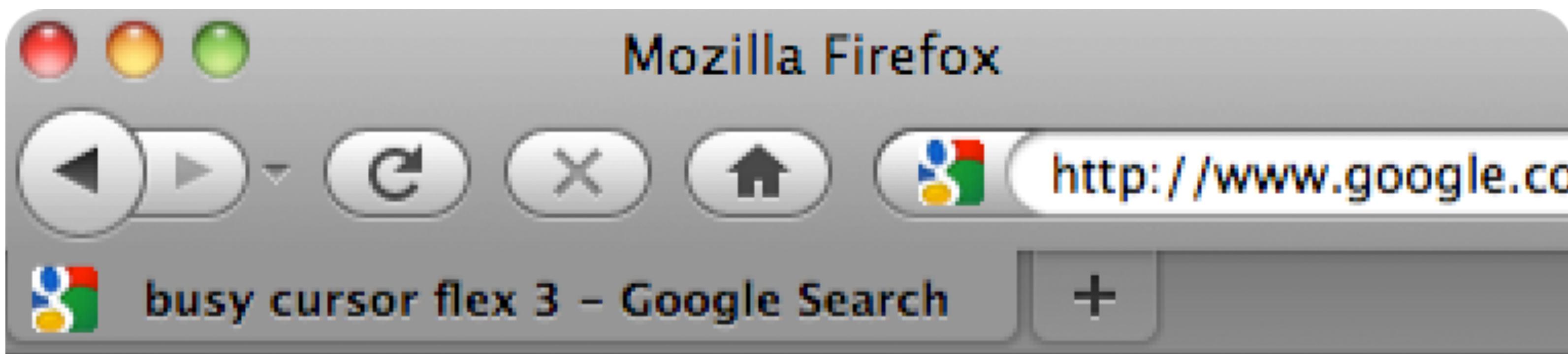
```
<form name="input" action="html_form_submit.asp" method="get">
Username:
<input type="text" name="user" />
<input type="submit" value="Submit" />
</form>
```



```
<h1>My Awesome Chatroom</h1>
<form name="input" action="html_form_submit.asp" method="get">
<textarea></textarea><br>
Username:
<input type="text" name="user" />
<br>Message:
<input type="text" name="msg" />
<input type="submit" value="Submit" />
</form>
```



The Web lowers the  
costs of creating, sharing,  
and accessing examples



A screenshot of a Flex development environment. The title bar says "Flex Development - AIRTest/src/AIRTest.mxml". The toolbar has various icons for file operations like Open, Save, and Run. The main workspace shows an MXML file named "AIRTest.mxml". The "Source" tab is selected, displaying the following XML code:

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <mx:WindowedApplication xmlns:mx="http://www.adob
3 <mx:Script>
4     <![CDATA[
```

Flex Development - AIRTest/src/AIRTest.mxml - Adobe Flex Builder 3

Flex Navigator

AIRTest

- bin-debug
- libs
- src

AIRTest.mxml

AIRTest-app.xml

Source Design

```
<?xml version="1.0" encoding="utf-8"?>
<mx:WindowedApplication xmlns:mx="http://www.adobe.com/2006/mxml" layout="absolute" applicationComplete="
    <mx:Script>
        <![CDATA[
            private function loadData():Boolean {
                return true;
            }
        ]]>
    </mx:Script>
</mx:WindowedApplication>
```

Outline

WindowedApplication

Script

Problems

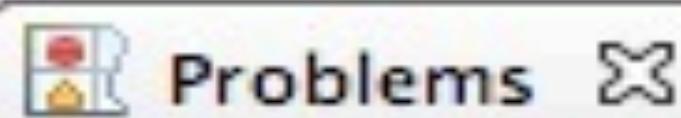
0 errors, 0 warnings, 0 infos

Description	Resource	Path	Location

Writable Insert 6 : 17

Source Design

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <mx:WindowedApplication xmlns:mx="http://www.adobe.com/2006/mxml" layout="absolute" applicat
3 <mx:Script>
4     <![CDATA[
5         private function loadData():Boolean {
6             busy cursor| // Line 6, cursor position
7             return true;
8         }
9     ]]>
10    </mx:Script>
11 </mx:WindowedApplication>
12
```



Problems



0 errors, 0 warnings, 0 infos

Description

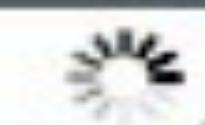
Resource

Path

Location

Source Design

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <mx:WindowedApplication xmlns:mx="http://www.adobe.com/2006/mxml" layout="absolute" applicat
3 <mx:Script>
4     <![CDATA[
5         private function loadData():Boolean {
6             busy cursor
7             return true
8         }
9     ]]>
10    </mx:Script>
11 </mx:WindowedApplication>
12
```



Problems X

0 errors, 0 warnings, 0 infos

Description

▲ Resource

Path

Location

Source Design

```
1 <?xml version="1.0"
2 <mx:WindowedApplication>
3     <mx:Script>
4         <![CDATA[
5             private
6             busy
7             return
8         }
9     ]]>
10    </mx:Script>
11 </mx:WindowedApplication>
12
```

busy cursor



## busy cursor

### Flex 3 - Using a busy cursor

[http://livedocs.adobe.com/flex/3/html/cursormgr\\_4.html](http://livedocs.adobe.com/flex/3/html/cursormgr_4.html)

You can modify the example in Creating and removing a cursor to use the default busy cursor. The following example shows:

```
<?xml version="1.0"?>
<!-- cursors\DefBusyCursorApp.mxml -->
<mx:Application xmlns:mx="http://www.adobe.com/2006/mxml">

    <mx:Script>
        <![CDATA[
            import mx.managers.CursorManager;
            import flash.events.*;

            private function handleLoad(event:MouseEvent):void {
                CursorManager.setBusyCursor();
                image1.load("../assets/DS000054.JPG");
            }

            private function handleComplete(event:Event):void {
                CursorManager.removeBusyCursor();
            }
        ]]>
```

Problems X

0 errors, 0 warnings, 0 infos

Description

Dock

Source Design

```
1 <?xml version="1.0"
2 <mx:WindowedApplication>
3     <mx:Script>
4         <![CDATA[
5             private
6             busy
7             return
8         }
9     ]]>
10    </mx:Script>
11 </mx:WindowedApplication>
12
```

busy cursor



## busy cursor

### Flex 3 - Using a busy cursor

[http://livedocs.adobe.com/flex/3/html/cursormgr\\_4.html](http://livedocs.adobe.com/flex/3/html/cursormgr_4.html)

You can modify the example in Creating and removing a cursor to use the default busy cursor. The following example shows:

```
<?xml version="1.0"?>
<!-- cursors\DefBusyCursorApp.mxml -->
<mx:Application xmlns:mx="http://www.adobe.com/2006/mxml">

    <mx:Script>
        <![CDATA[
            import mx.managers.CursorManager;
            import flash.events.*;

            private function initImage(event:MouseEvent):void {
                CursorManager.setBusyCursor();
                image1.load("../assets/5555554.JPG");
            }

            private function loadComplete(event:Event):void {
                CursorManager.removeBusyCursor();
            }
        ]]>
```

Problems

0 errors, 0 warnings, 0 infos

Description

Dock

Source Design

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <mx:WindowedApplication xmlns:mx="http://www.adobe.com/2006/mxml" layout="absolute" applicat
3 <mx:Script>
4   <![CDATA[
5     private function loadData():Boolean {
6       //query:'busy cursor'
7       //source: http://livedocs.adobe.com/flex/3/html/cursormgr_4.html
8       CursorManager.setBusyCursor();
9
10      return true;
11    }
12  ]]>
13 </mx:Script>
14 </mx:WindowedApplication>
15
```

Problems X

0 errors, 0 warnings, 0 infos

Description

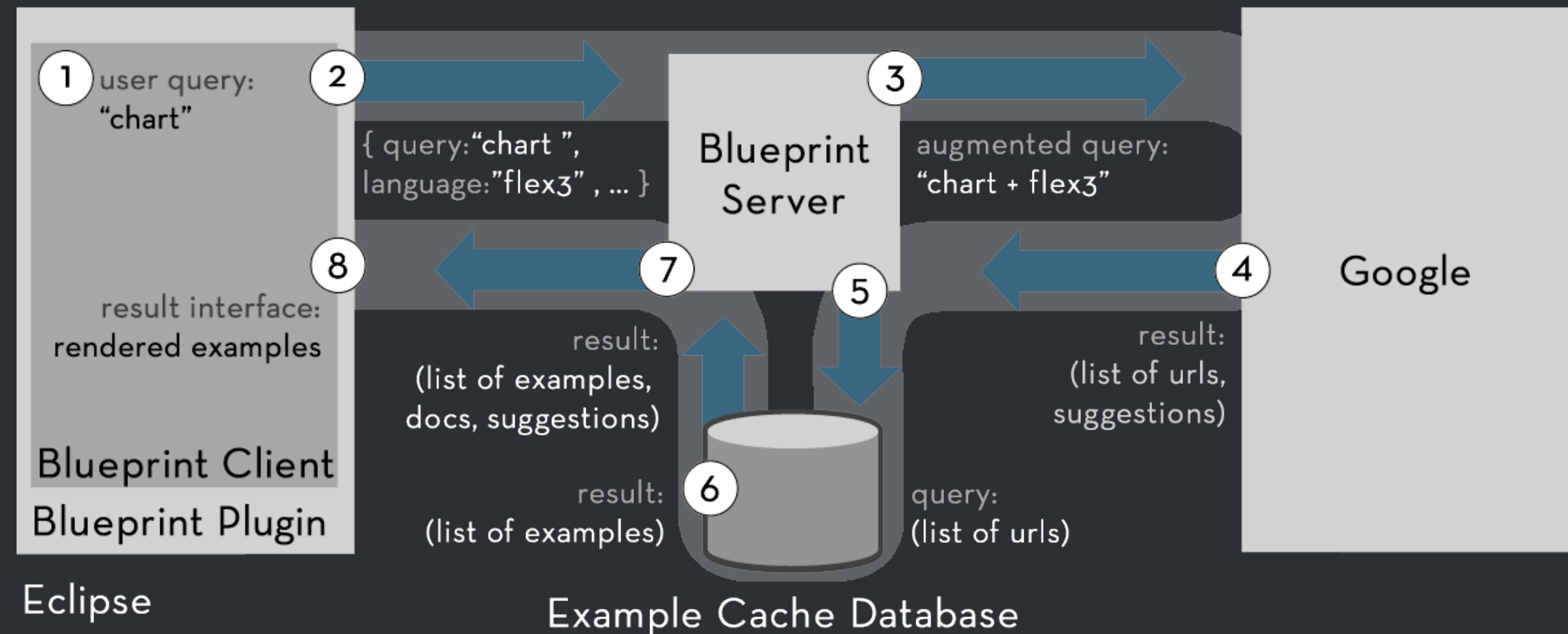
Resource

Path

Location

Blueprint's content is  
***written as examples***

# Blueprint Query Handling



# Automatically Adapting Examples



Ranjitha Kumar *et al.*

**Flexible Tree Matching**, Ranjitha Kumar, Jerry O. Talton, Salman Ahmad, Tim Roughgarden and Scott R. Klemmer. *IJCAI: International Joint Conference on Artificial Intelligence*, 2011

**Bricolage: Example-Based Retargeting for Web Design**, Ranjitha Kumar, Jerry O. Talton, Salman Ahmad, and Scott R. Klemmer. *CHI: ACM Conference on Human Factors in Computing Systems*, 2011

What if *any* page  
could be a  
“template”...  
*automatically?*

content

# Bricolage

style

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**A Google approach to email.**

Gmail is built on the idea that email can be more intuitive, efficient, and useful. And maybe even fun. After all, Gmail has:

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- Mobile access**  
Read Gmail on your mobile phone by pointing your phone's web browser to <http://gmail.com>. [Learn more](#)
- Lots of space**  
Over 7498.024251 megabytes (and counting) of free storage.

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[5 tips for using Priority Inbox](#)  
Thu Sep 09 2010  
It's been a week since we launched Priority Inbox, and now that you've hopefully had a chance to try ...  
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content

Welcome to Gmail

A Google approach to email.

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Keep unwanted messages out of your inbox with Google's innovative technology.
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style

Sign Up | Log In

Sign in with your Google account

Username (ex. pat@example.com)

Less spam

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Password

Mobile access

Read Gmail on your mobile phone by pointing your phone's web browser to <http://gmail.com>. [Learn more](#)

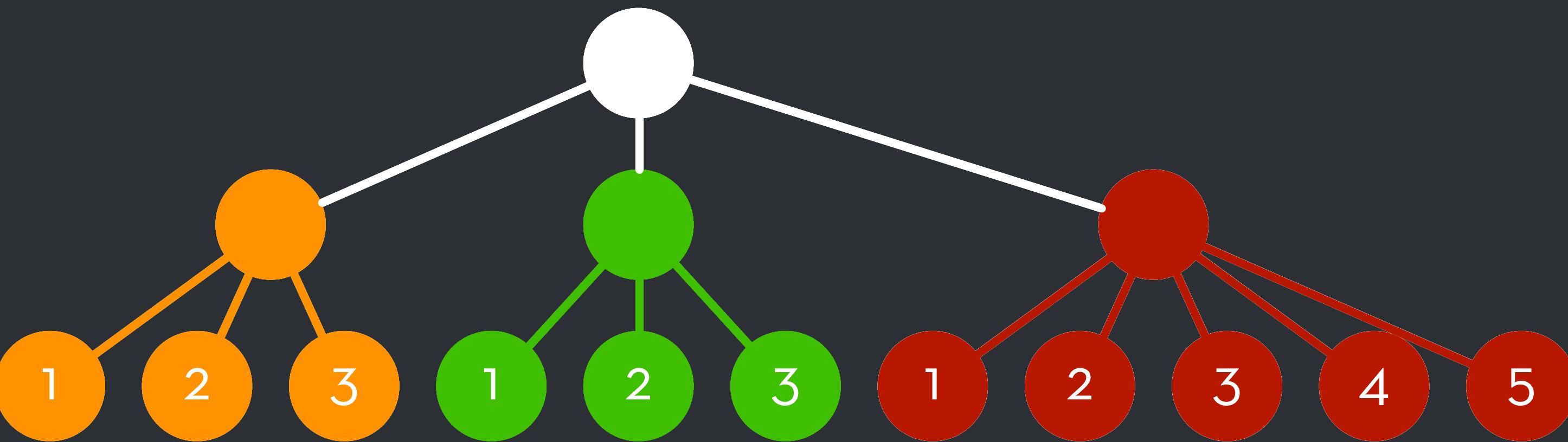
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# DOM segmentation



THE BEAUTY OF CSS DESIGN

# CSS ZEN GARDEN

A demonstration of what can be accomplished visually through CSS-based design. Select any style sheet from the list to load it into this page.

Do you have a favorite? [View all designs](#) | [View random design](#)

**SELECT A DESIGN**

Under the Sea by Eric Stoltz  
Make 'em Proud by Michael McGinley and Scotty Rutherford  
Orchid Beauty by Kevin Addison  
Oceanscape by Justin Gray  
CSS Co., Ltd by Benjamin Klemm  
Sakura by Tomoaki Iida  
Kyoto Forest by Krzysztof Witkowski  
A Walk in the Woods by Simon Van Heuvelen

**THE ROAD TO ENLIGHTENMENT**

Littering a dark and dreary road lay the past relics of browser-specific tags, incompatible DOMs, and broken CSS support.

Today, we must clear the mind of past practices. Web enlightenment has been achieved thanks to the tireless efforts of folk like the W3C, WaSP and the major browser creators.

The CSS Zen Garden invites you to relax and meditate on the important lessons of the masters. Begin to see with clarity. Learn to use the (yet to be) time-honored techniques in new and invigorating fashion. Become one with the web.

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**RESOURCES**

[View This Design's CSS](#)  
CSS Resources  
FAQ  
Submit a Design  
Translations

**SO WHAT IS THIS ABOUT?**

There is clearly a need for CSS to be taken seriously by graphic artists. The Zen Garden aims to excite, inspire, and encourage participation. To begin, view some of the existing designs in the list. Clicking on any one will load the style sheet into this very page. The code remains the same, the only thing that has changed is the external .css file. Yes, really.

CSS allows complete and total control over the style of a hypertext document. The only way this can be illustrated in a way that gets people excited is by demonstrating what it can truly be, once the reins are placed in the hands of those able to create beauty from structure. To date, most examples of neat tricks and hacks have been demonstrated by structuralists and coders. Designers have yet to make their mark. This needs to change.

**PARTICIPATION**

Graphic artists only please. You are modifying this page, so strong CSS skills are necessary, but the example files are commented well enough that even CSS novices can use them as starting points. Please see the [CSS Resource Guide](#) for advanced tutorials and tips on working with CSS.

You may modify the style sheet in any way you wish, but not the HTML. This may seem daunting at first if you've never worked this way before, but follow the listed links to learn more, and use the sample files as a guide.

Download the sample [html file](#) and [css file](#) to work on a copy locally. Once you have completed your masterpiece (and please, don't submit half-finished work) upload your .css file to a web server under your control. [Send us a link](#) to the file and if we choose to use it, we will spider the associated images. Final submissions will be placed on our server.

**BENEFITS**

Why participate? For recognition, inspiration, and a resource we can all refer to when making the case for CSS based design. This is surely needed, even today. More and more major sites are taking the leap, but not enough have. One day this gallery will be a historical curiosity; that day is not today.

Unfortunately, design this way highlights the flaws in the various implementations of CSS. Different browsers display differently, even complete valid CSS at times, and this becomes maddening when a fix for one leads to breakage in another. View the [Resources](#) page for information on some of the fixes available. Full browser compliance is still sometimes a pipe dream, and we do not expect you to come up with pixel-perfect code across every platform. But do test in as many as you can. If your design doesn't work in at least IE 4/Win and Mozilla (run by over 90% of the population), chances are we won't accept it.

We ask that you submit original artwork. Please respect copyright laws. Please keep object-oriented material to a minimum; tasteful nudity is acceptable, explicit pornography will be rejected.

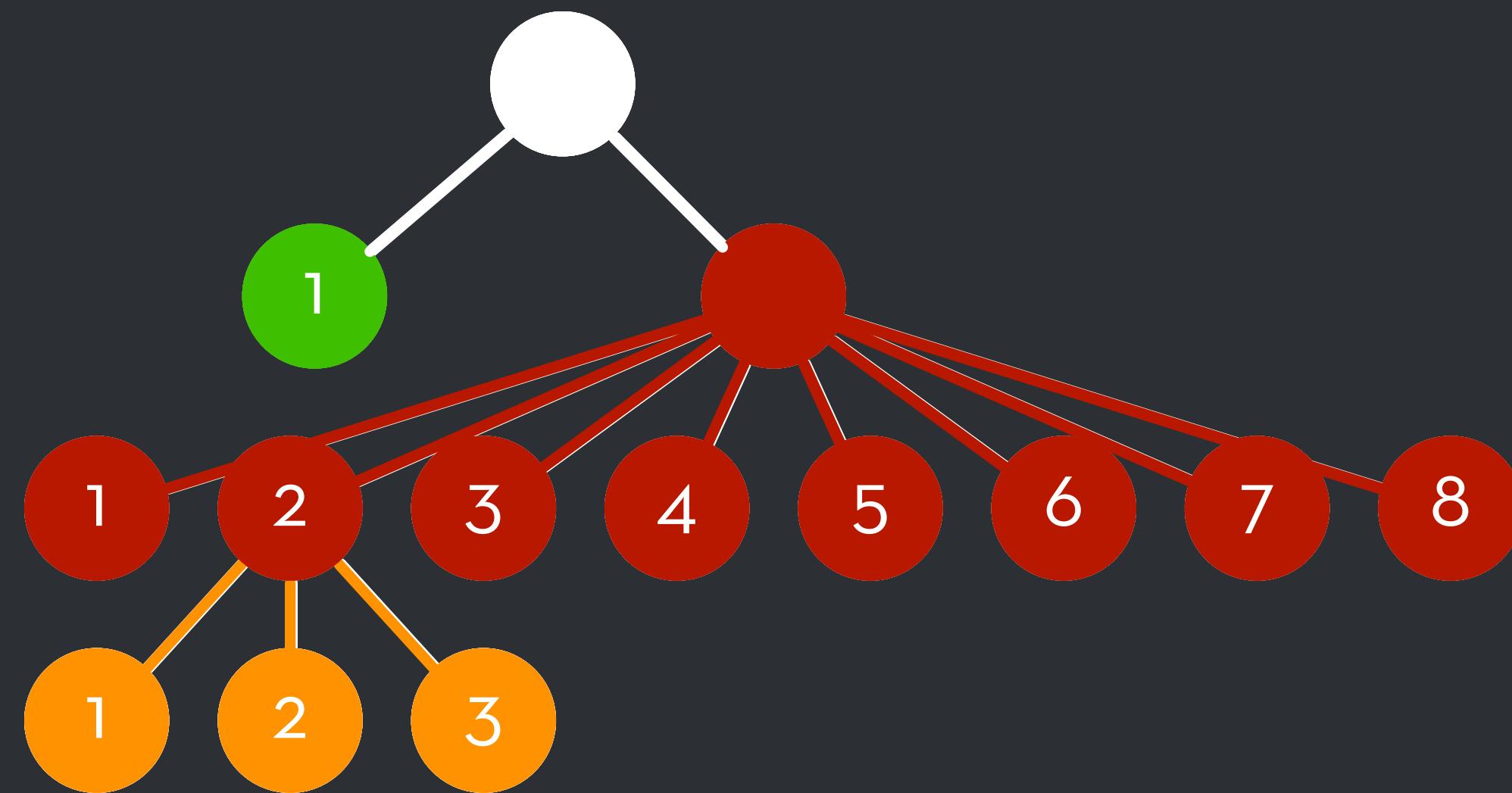
This is a learning exercise, as well as a demonstration. You retain full copyright on your graphics (with limited exceptions, see [submission guidelines](#)), but we ask you release your CSS under a Creative Commons license identical to the [one on this site](#) so that others may learn from your work.

Bandwidth graciously donated by [Zennedy](#). Now available:

**REQUIREMENTS**

xhtml  
css  
cc  
508  
aaa

# bento segmentation



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Unfortunately, design is a way highlights the flaws in the various implementations of CSS. Different browsers display differently, even complete valid CSS at times, and this becomes maddening when a fix for one leads to breakage in another. View the [Resources](#) page for information on some of the fixes available. Full browser compliance is still sometimes a pipe dream, and we do not expect you to come up with pixel-perfect code across every platform. But do test in as many as you can. If your design doesn't work in at least IE + Win and Mozilla (run by over 90% of the population), chances are we won't accept it.

We ask that you submit original artwork. Please respect copyright laws. Please keep object-oriented material to a minimum; tasteful nudity is acceptable, explicit pornography will be rejected.

This is a learning exercise, as well as a demonstration. You retain full copyright on your graphics (with limited exceptions, see [submission guidelines](#)). But we ask you release your CSS under a Creative Commons license identical to the [one on this site](#) so that others may learn from your work.

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# Brainstorming Alternatives

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## Creativity + Technology

Developing a product on the web requires many different skill-sets, from information architecture, user interface design, website design and development, to usability analysis, content management, search engine optimization and more. It's not enough to have a great design or a strong technology platform; these need to be seamlessly integrated. In the last 12 years, I've worked for ground-floor start-ups to multi-national corporations and gained the experience for managing, building and developing web products from concept to launch.



Enjoy! — **Rik Catlow**

## About Rik Catlow

This site is designed, coded and updated by me, Rik Catlow. I live with my wife Wassa, daughter Becca, and a fat tabby cat named Bo in Charlotte, NC. I currently work for Bank of America as Senior Visual Designer. I advocate for web standards, the user and visual design simplicity.

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## Contact Info

[Rik Catlow → Resume / Linkedin Profile](#)

Email: [rikcatindustries@gmail.com](mailto:rikcatindustries@gmail.com)

Personal Site: [rikcat.com](http://rikcat.com)

Twitter: [@rikcat](#)

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## Contact Info

**Rik Catlow** → [Resume / Linkedin Profile](#)  
Email: [rikcatindustries@gmail.com](mailto:rikcatindustries@gmail.com)  
Personal Site: [rikcat.com](http://rikcat.com)  
Twitter: [@rikcat](#)  
Status: Interested in full-time opportunities



# Rikcat Industries

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Linkedin Profile  
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Personal Site: [rikcat.com](http://rikcat.com)  
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## Creativity + Technology

Developing a product on the web requires many different skill-sets, from information architecture, user interface design, web site design and development, to usability analysis, content management, search

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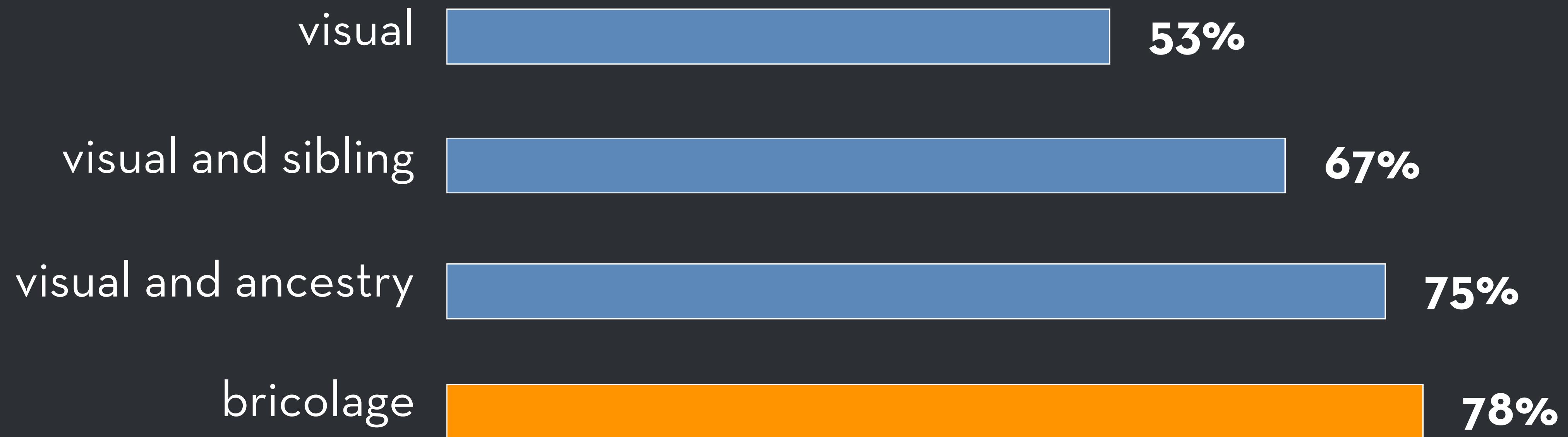
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# comparison to human mappings





# Blog

## Spring 2010 jQuery Talks

I gave a number of talks this spring on jQuery and especially on some of the recent additions made in jQuery 1.4. Below are all the slides and demos that I've given.

The conferences / meetups that I spoke at (or will speak at, in the case of MIX), and the talks that I gave, are [...]

[24 Comments](#) · **Posted:** March 4th, 2010 · **Tags:** jquery, speaking, talks, workshop

## .closest(Array) in jQuery 1.4

A new method signature is slated for jQuery 1.4: `.closest(Array)`. It builds upon the previous `.closest()` method and hyper-optimizes the logic needed for handling event delegation (and live events).

`closest()` (and by extension, `is()`) has become a critical function in jQuery. With more people using live events reducing any overhead has become of the utmost importance. [...]

[50 Comments](#) · **Posted:** December 18th, 2009 · **Tags:** closest, live, jquery

## .nodeName Case Sensitivity

When working with the DOM `.nodeName` property there are two hard-and-fast rules that most people abide by:

The node names of HTML elements are always uppercase, even if they're explicitly created using lowercase characters. `<html>` will result in a `.nodeName === "HTML"` (see the HTML 5 draft).

The node names of XML elements are always in the [...]

[31 Comments](#) · **Posted:** November 24th, 2009 · **Tags:** dom, javascript, browsers

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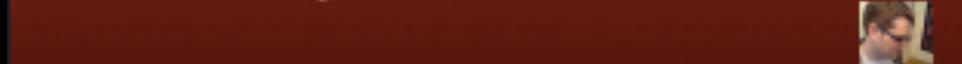
### Spring 2010 jQuery Talks

I gave a number of talks this spring on jQuery and especially on some of the recent additions made in jQuery 1.4.

The conferences / meetups / bars / parties / talks that I gave, are:

24 Comments · Posted: November 24th, 2009

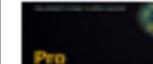
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### .closest(Array) in jQuery 1.4

When working with the DOM, most people abide by the convention of creating node names in lowercase (as defined in the HTML 5 draft).

The node names of HTML elements are created using lowercase (as defined in the HTML 5 draft).

The node names of XML elements are created using lowercase (as defined in the XML 1.0 specification).

31 Comments · Posted: November 24th, 2009 · Tags: dom, javascript, browsers

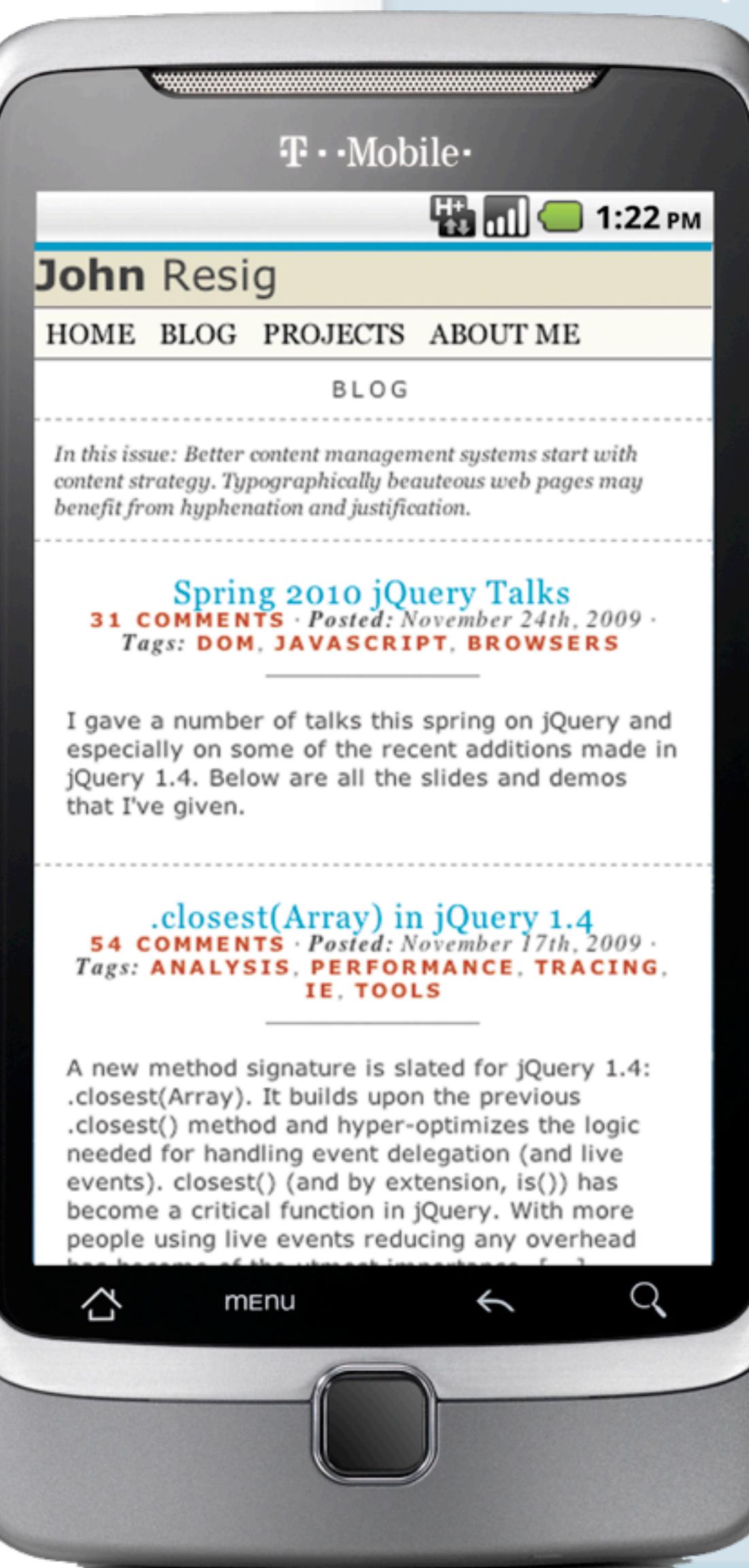
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