

html5 and css

this is the first boring slide

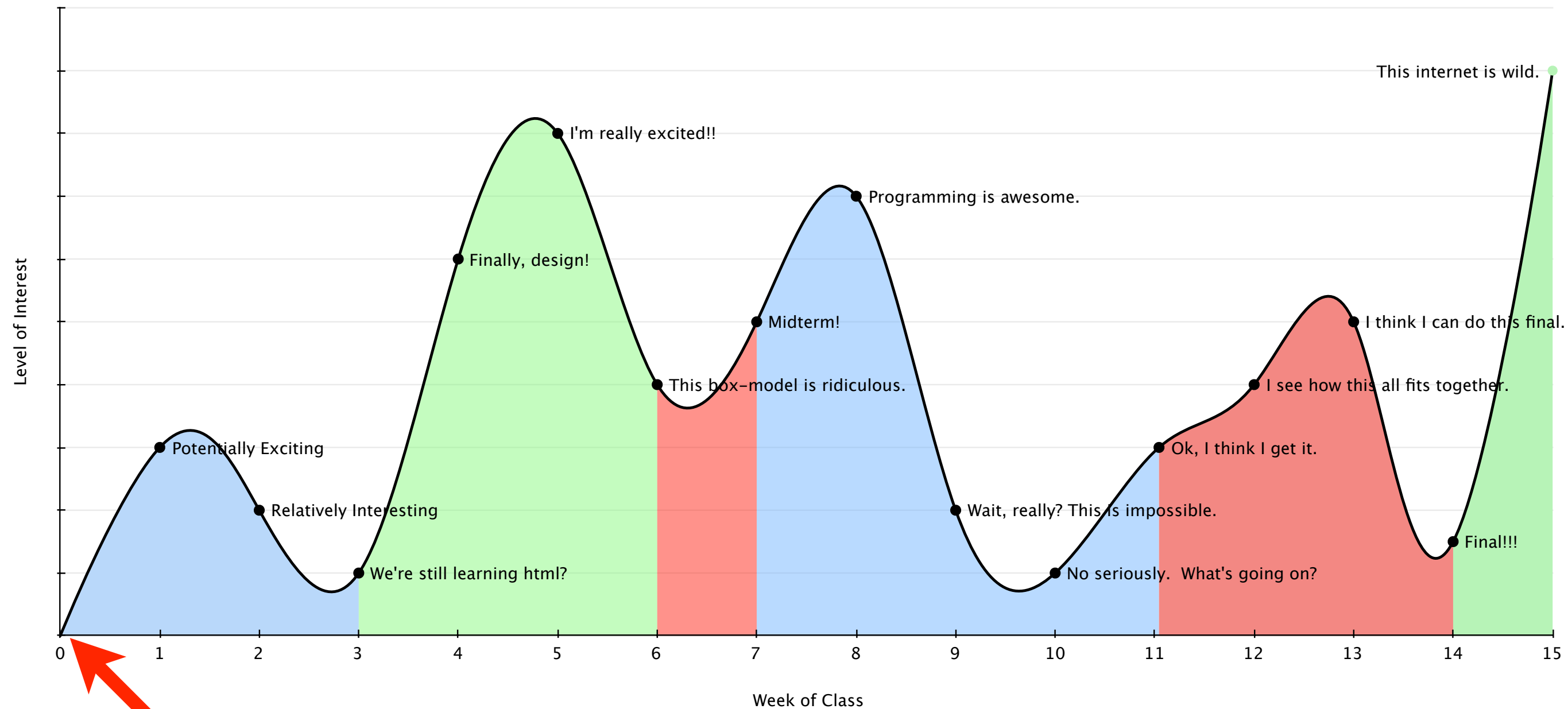
Conceptual objectives of this class

- A general understanding of everything that goes into making a modern website
- An interest in exploring the intersections of systematic design for the web, and traditional design for other mediums
- An appreciation of the web being it's own medium

Specific objectives of this class

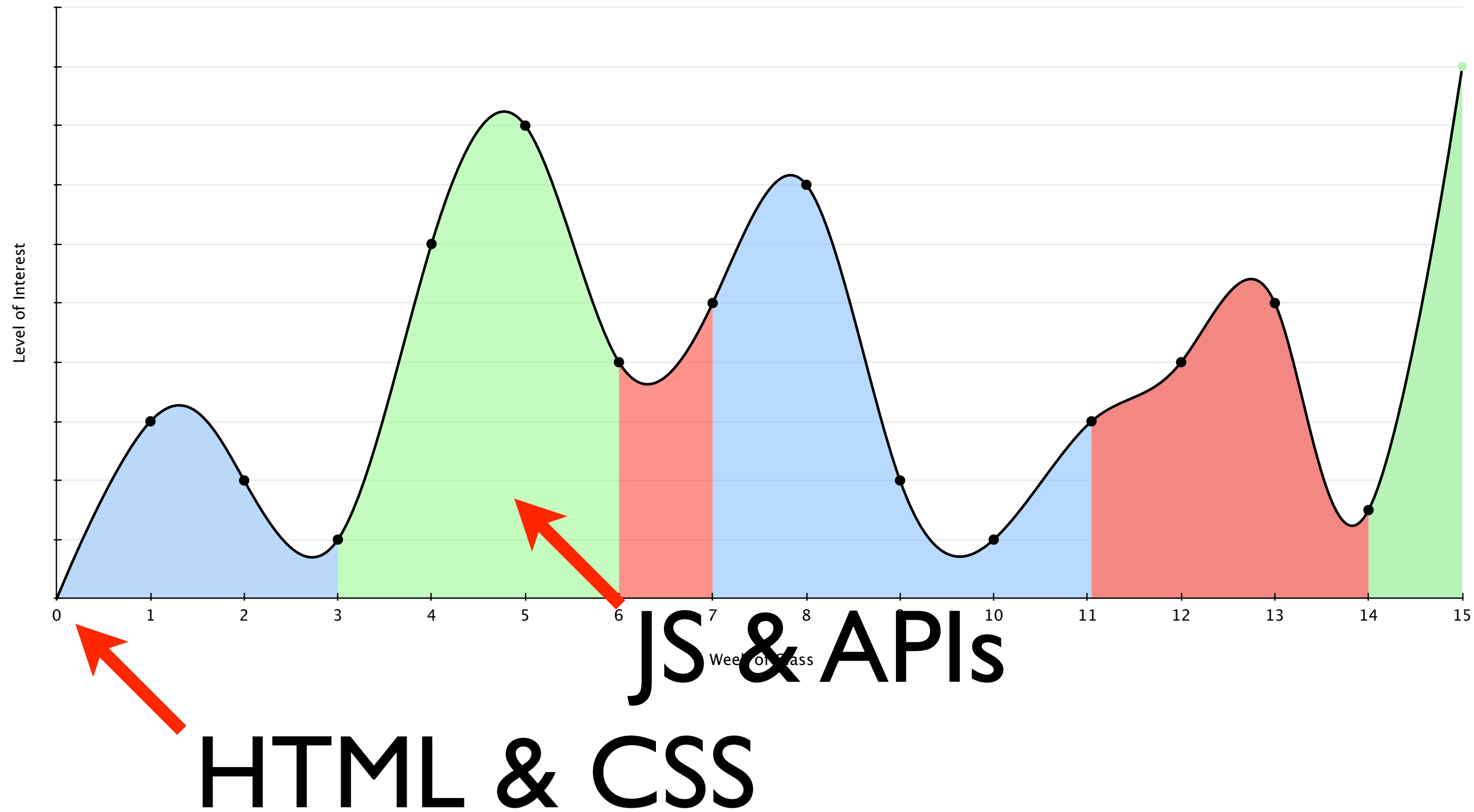
- A thorough understanding of HTML
- A working knowledge of CSS
- A great appreciation for Javascript
- A set of tools for continuing your own education into the web
- What a default “Keynote” presentation looks like

Expectation of interest over time



You are here

Topics



Examples

Select works from last semester

\

- <http://dopydo.github.io/MovieSite/>
- <http://allicolyer.github.io/Final-Project/>
- <http://nathangassaway.github.io/finalGlobal/>
- <http://delaneyclark.github.io/final/>

Walkthrough: Movies

Top 5 Trending Movies New Yorkers are talking about NOW.

#1 Straight Outta Compton

expand video



@KFCBarstool "I saw straight outta Compton in the movie theater the other day..."

I seen Straight Outta Compton twice in the movie theater 😂😂

Smoking the g pen in the movie theater while watching Straight Outta Compton 😂

Don't think for 1 second, I won't go to the movie theater, sit in one of those comfy ass chairs & watch straight outta Compton all by myself

#2 Mission: Impossible: Rogue Nation

expand video



Mission: Impossible – Rogue Nation - probably the worst movie I've seen in the theater since The New Guy.

Movie w/Matthew (@ ShowPlace ICON Theater for Mission: Impossible - Rogue Nation in Saint Louis Park, MN) <https://t.co/u9lpRJ12KA>

First time at a drive-in movie theater and we have awesome 'seats'! Mission Impossible: Rogue Nation.... <https://t.co/9t6TIA7tjc>

#3 Sinister 2

expand video



Watching sinister 2 @ReffnerAudrey23 with and there's no one in the movie theater 🤩

@djcorrupt I saw sinister 2 in the movie theater and was almost in my friends lap. It's scary and cruel 🤩

Georgia and I were the only ones in the Sinister 2 movie theater and we ran out because it was scary

Sinister 2 in an empty movie theater was extra creepy

When ur the only people in the movie theater for Sinister 2 withh @Miguel Lopez

#4 Hitman: Agent 47

expand video



Sitting in the movie theater watching the previews hope this Hitman movie is better than the last one — watching Hitman: Agent 47 Movie

Don't miss @Hitman: Agent 47 Movie in our 4D EFX Motion Theater ONLY in #Oxnard! Reserve your seats now: <https://t.co/dczX04Qnmn>

#5 The Man From U.N.C.L.E.

expand video



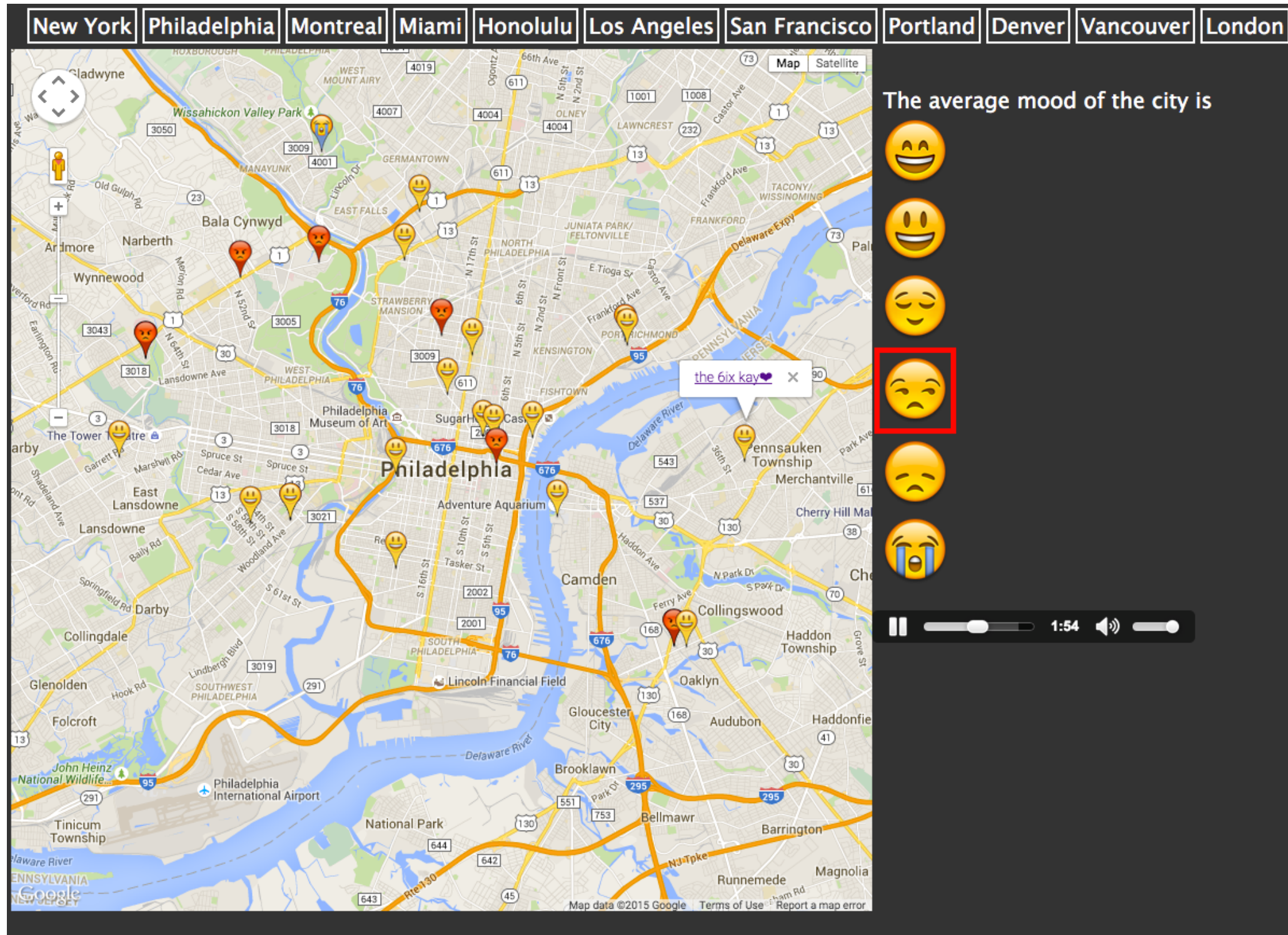
I had a great experience watching movie THE MAN FROM U.N.C.L.E. in a theater today. Watching movie in... <https://t.co/viLLzSkufr>

Enjoyed watching The Man from U.N.C.L.E. movie in the Tinseltown USA theater nearby. It was good! Felt the 60s vibe with this one.

Walkthrough: Movies

- How to determine which movies are the most popular
- How to find tweets based on a dynamic search term
- How to embed youtube videos programmatically

Walkthrough: Happiness



Walkthrough: Happiness

- How to plot things on a Google Map
- How to read twitter data
- How to analyze twitter data for specific words
- How to average results to determine happiness or sadness

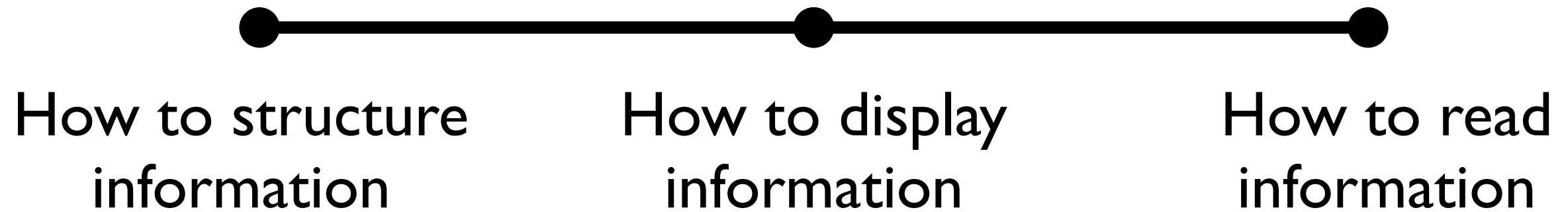
Commonalities

- HTML websites describes information
- CSS is used for aesthetic display
- Javascript is used for interactivity
- APIs are used to take advantage of 3rd-party content sources

Class Summary

In one slide

Class Summary



Introduction

Prerequisites before we get started

The Internet

- Client
- Server
- Database
- Github



The Internet



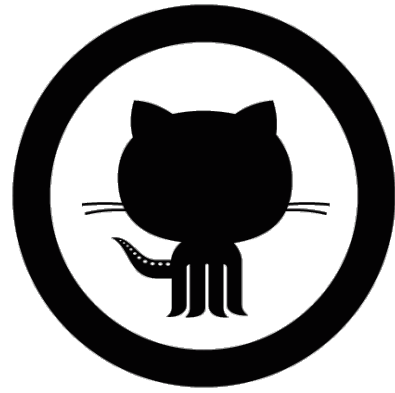
Client



Server

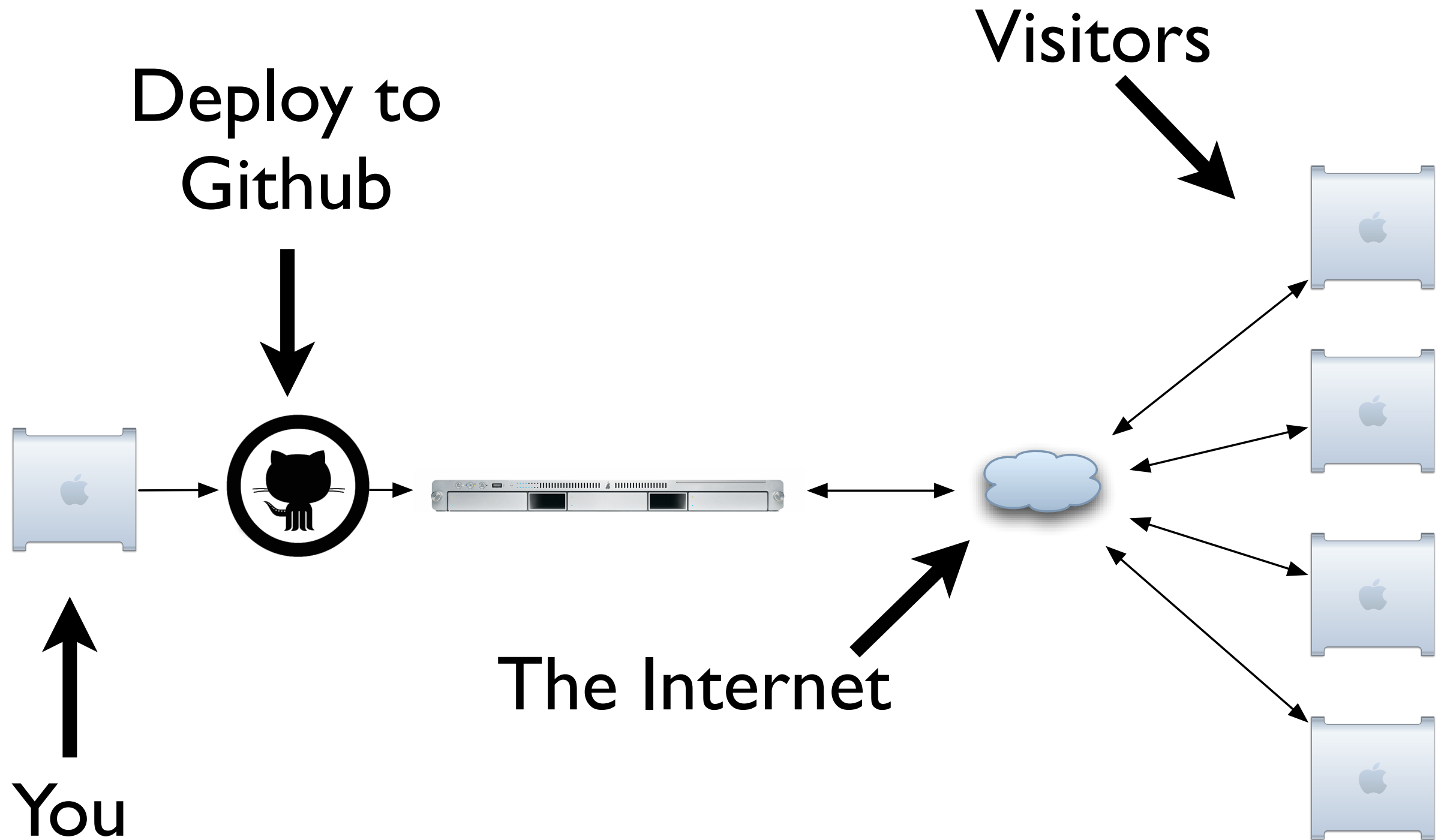


Database



GitHub

Git + github.com



Web Publishing

Tools of the Web Designer



Chrome



Atom

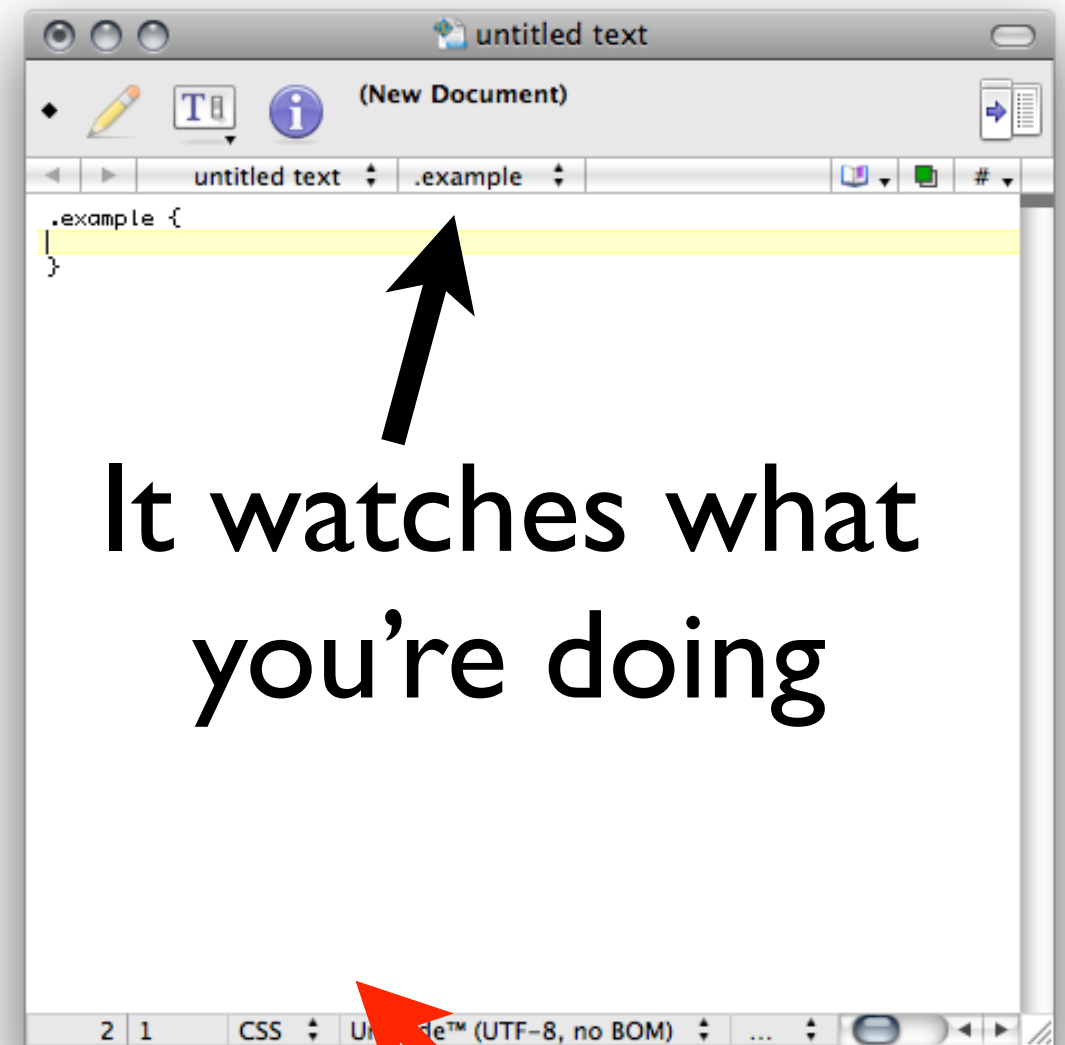
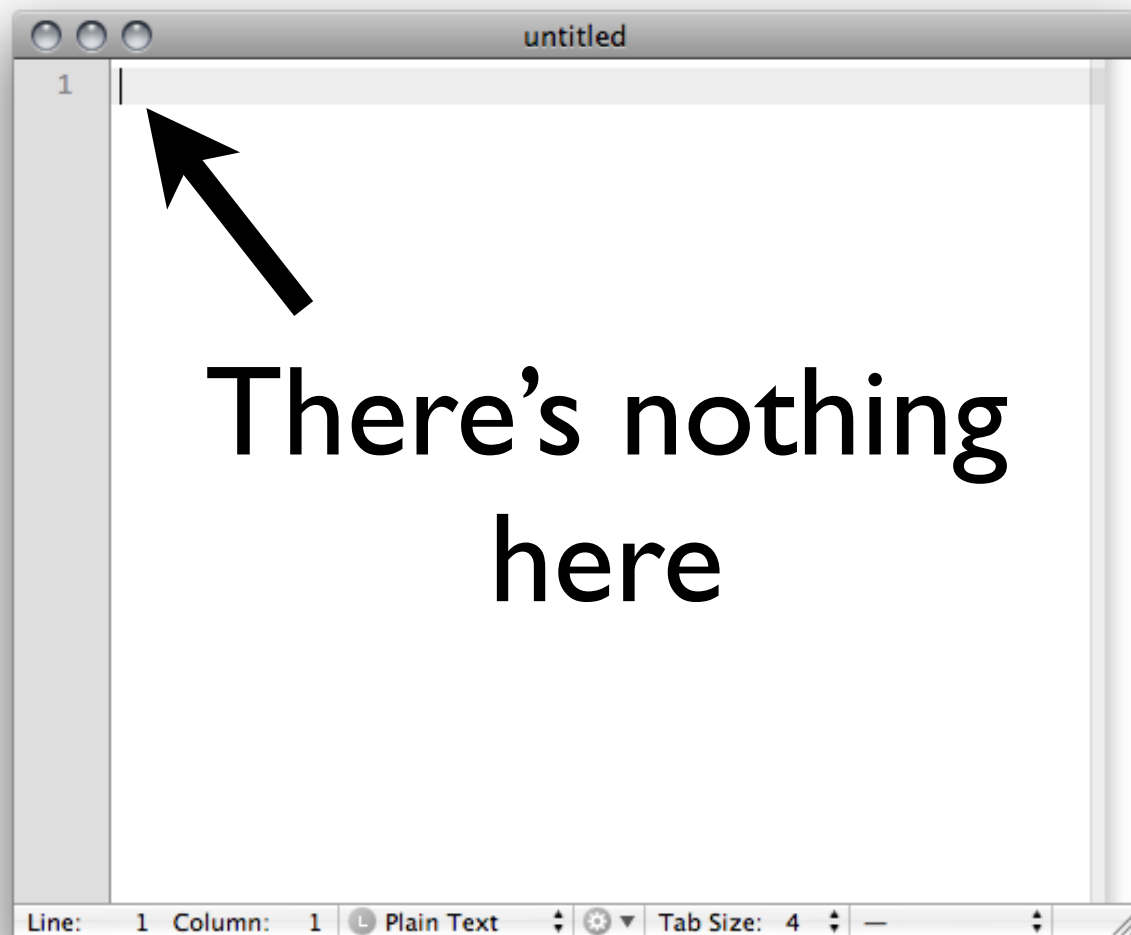


Github

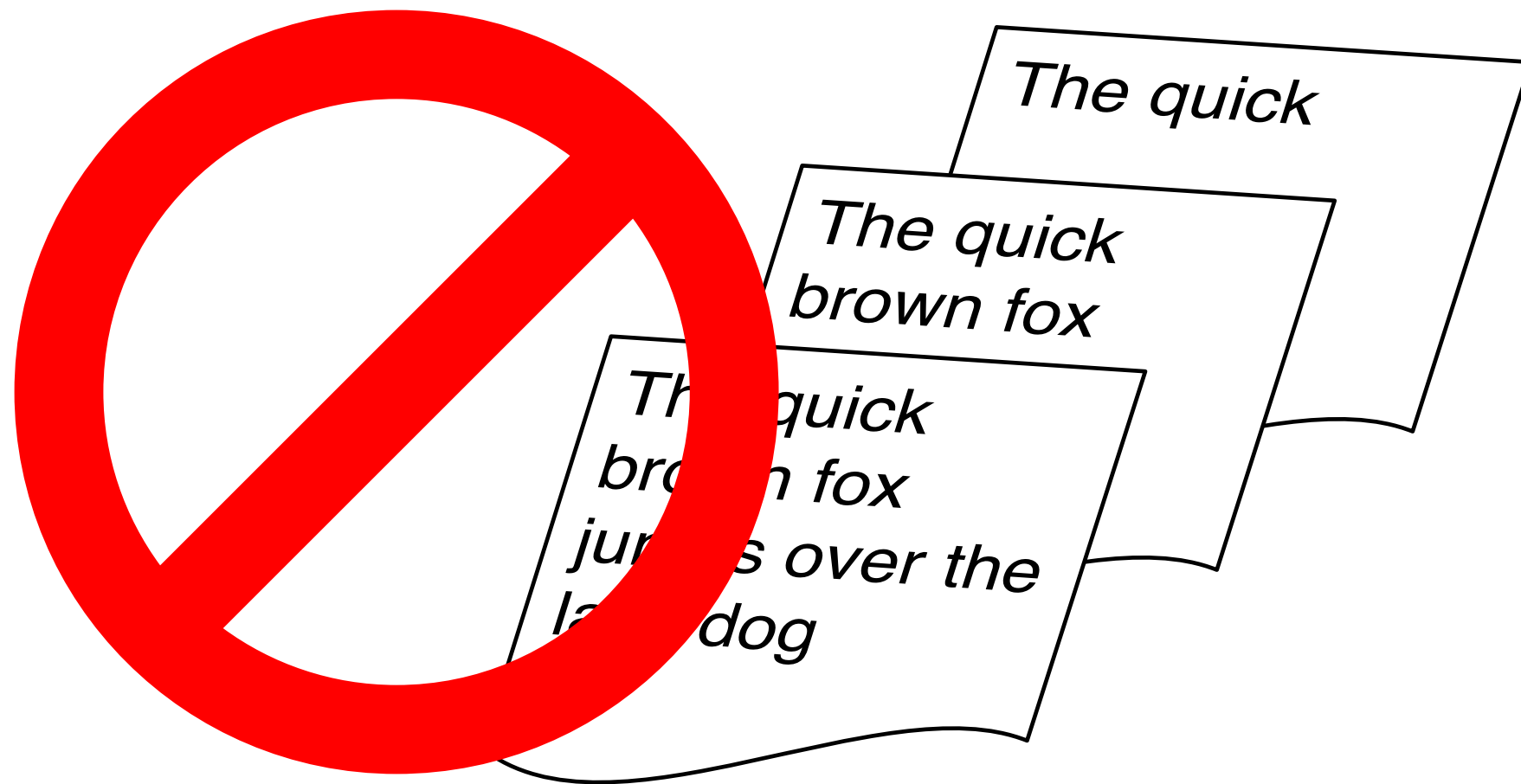
The problem with WYSIWYG

- The output is extremely verbose
- Pages produced are short-sighted

What makes a good text editor



TextWrangler



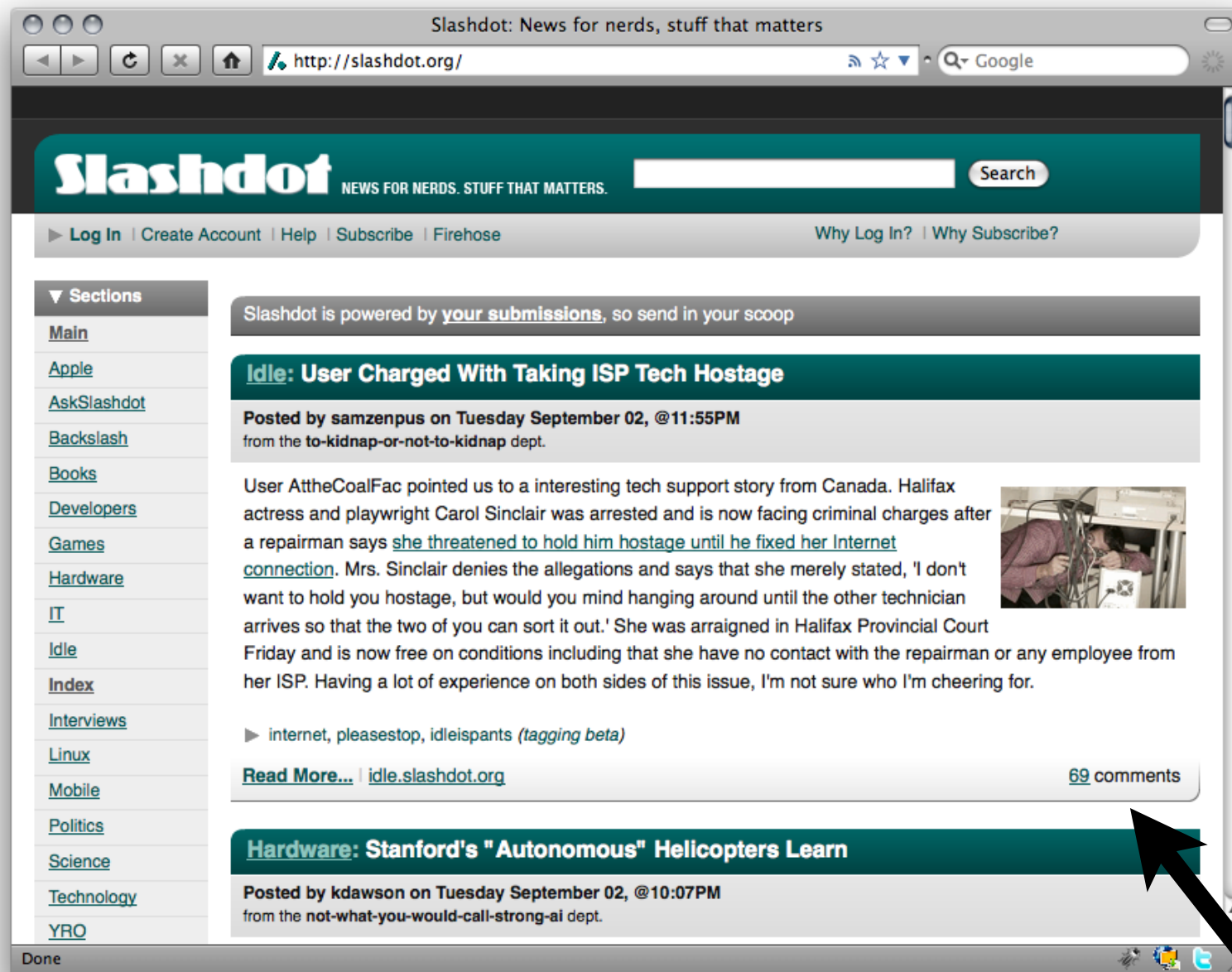
Versioning Systems

The Web Page

Many Definitions

Two perspectives of a web page

- What a person sees
- What a computer sees



Presentation

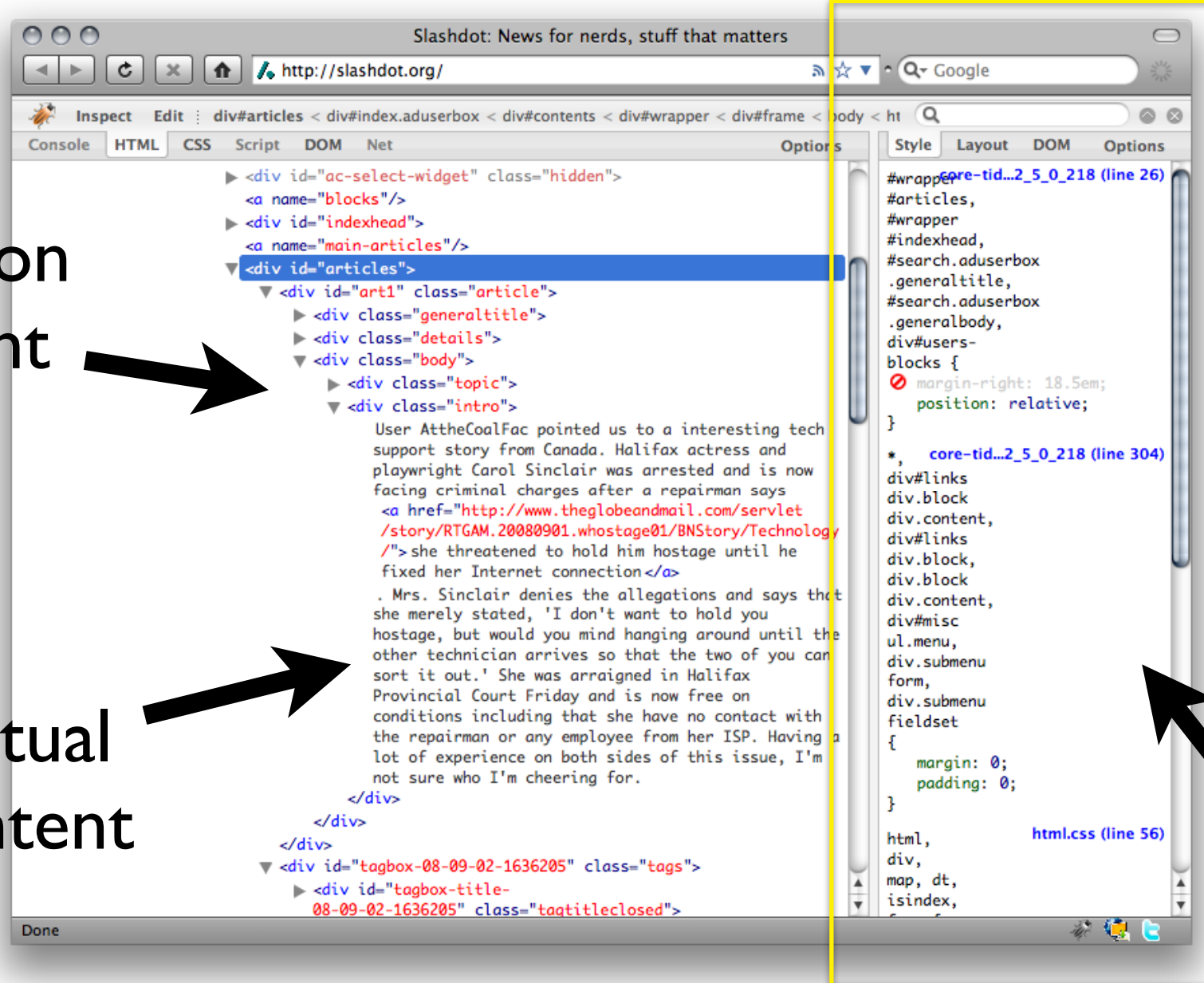
Human Experience

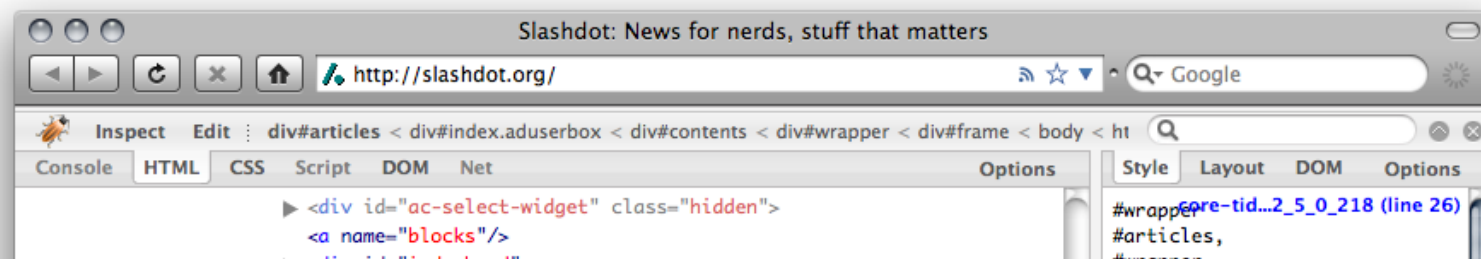
Description
of content

Actual
content

Presentation
Information

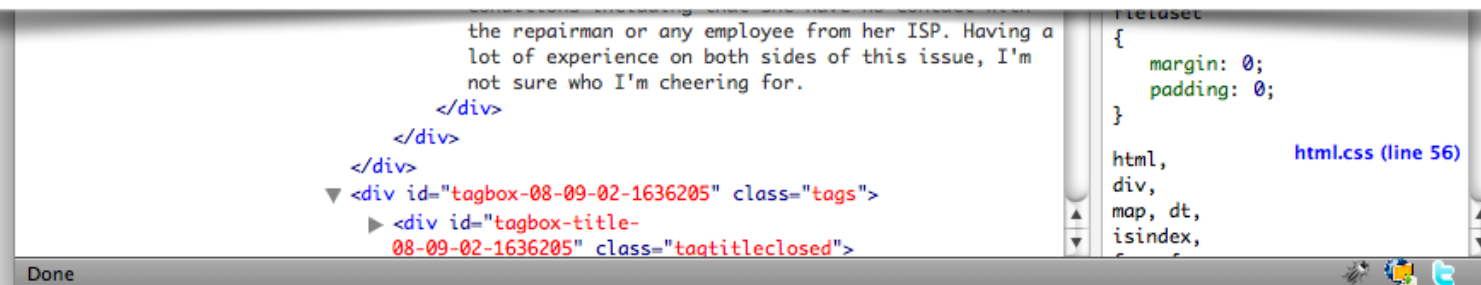
Computer Experience





```
<div class="headlineSummary highlights editorials">
  <ul class="newsItem">
    <li class="firstList subPrev">
      <h3><a href="">Highlights</a></h3>

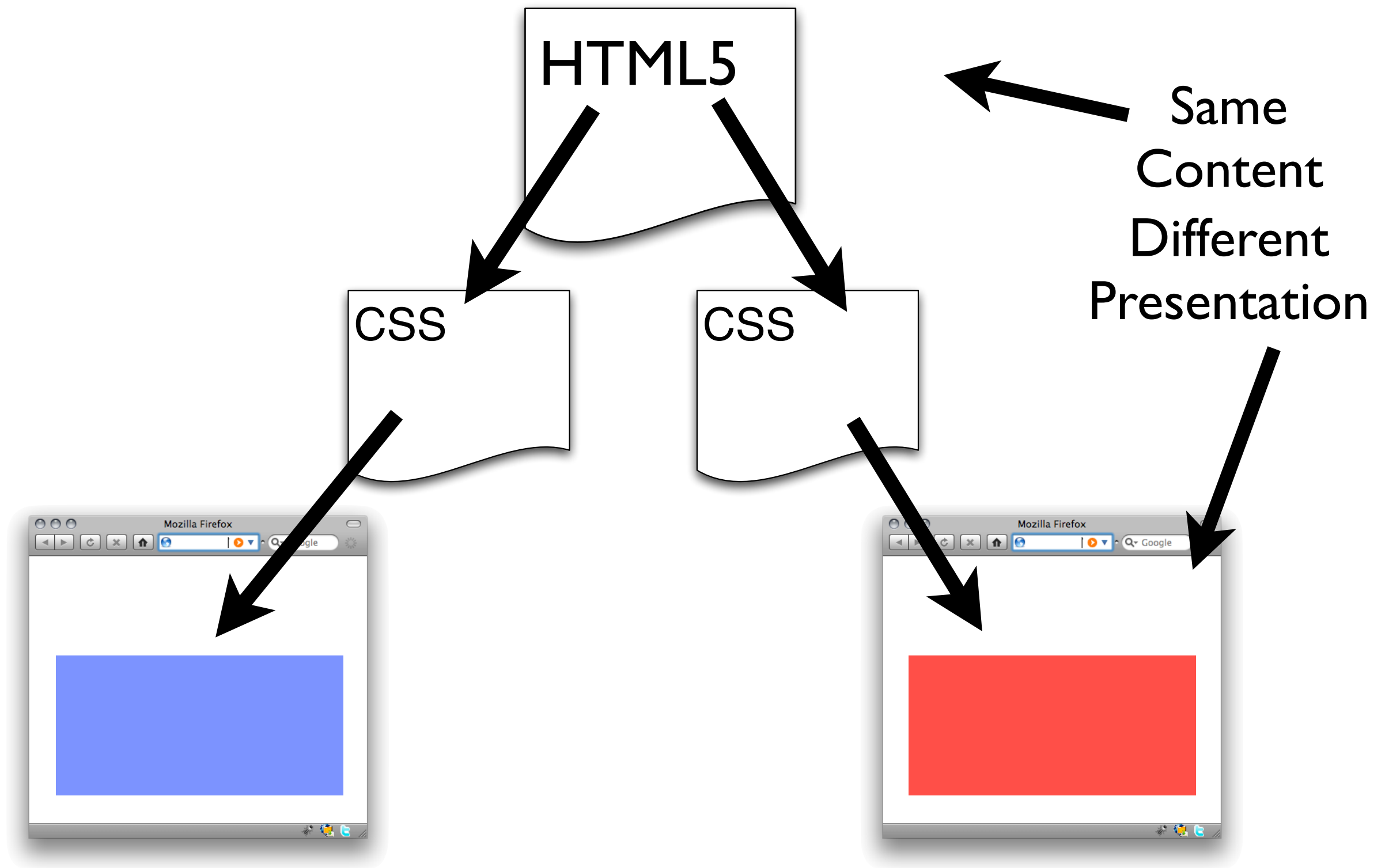
      
      <h2><a href="">The Boss's Pay</a></h2>
      <small>37 minutes ago</small>
      <p>Russia's Severstal said it has agreed to buy ArcelorMittal's
```



Accessibility & SEO

Separation of Design and Content

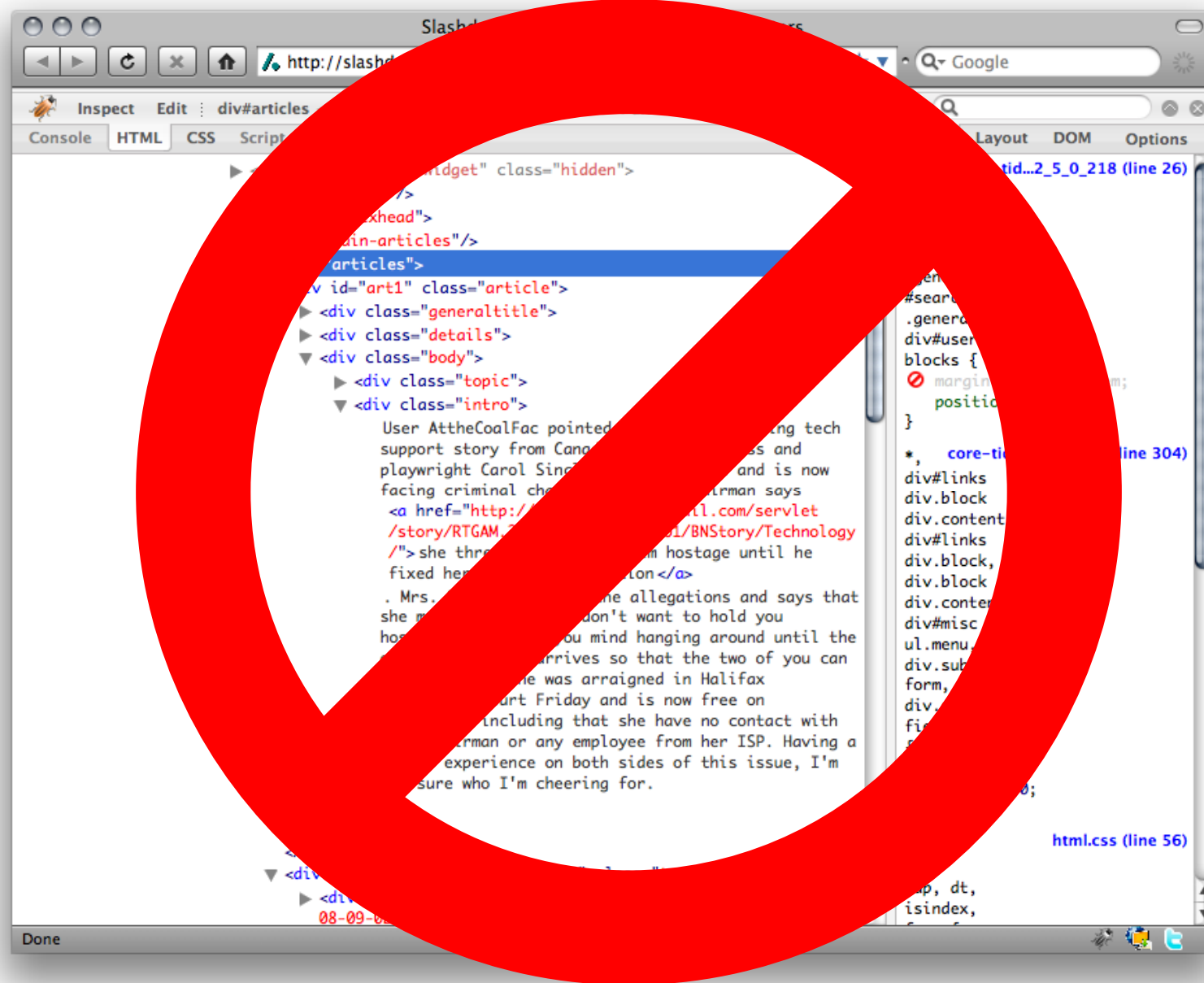
- Different browsers mean different rules
- Separated content leads to new options



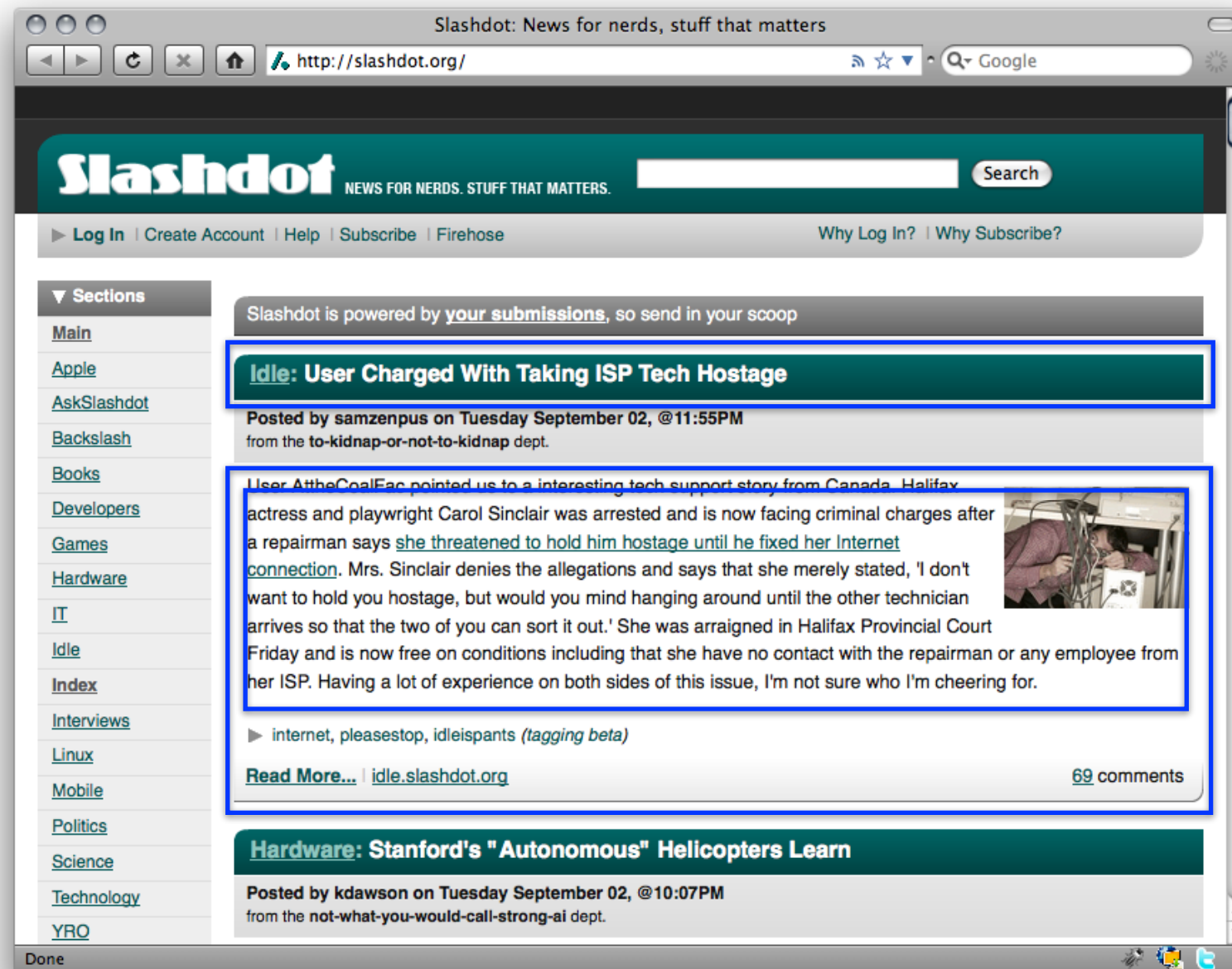
Browser-specific Styles

Assignment: Describe the content in one of your most frequented websites

- Using photoshop or illustrator, take a website's screenshot and describe the content on the page.
- Draw boxes around your understanding of where an area of content starts and ends, and label it with what type of content you think that is.
- Try to use one- or two-word descriptions for your content areas.



Don't look at the source



Outline areas of content

Screenshot Techniques

- ⌘+shift+3
- ⌘+shift+4
- ⌘+shift+4, +space bar
- Note: hold ctrl with any of these to go straight to the clipboard

Turn in your in-class assignment:

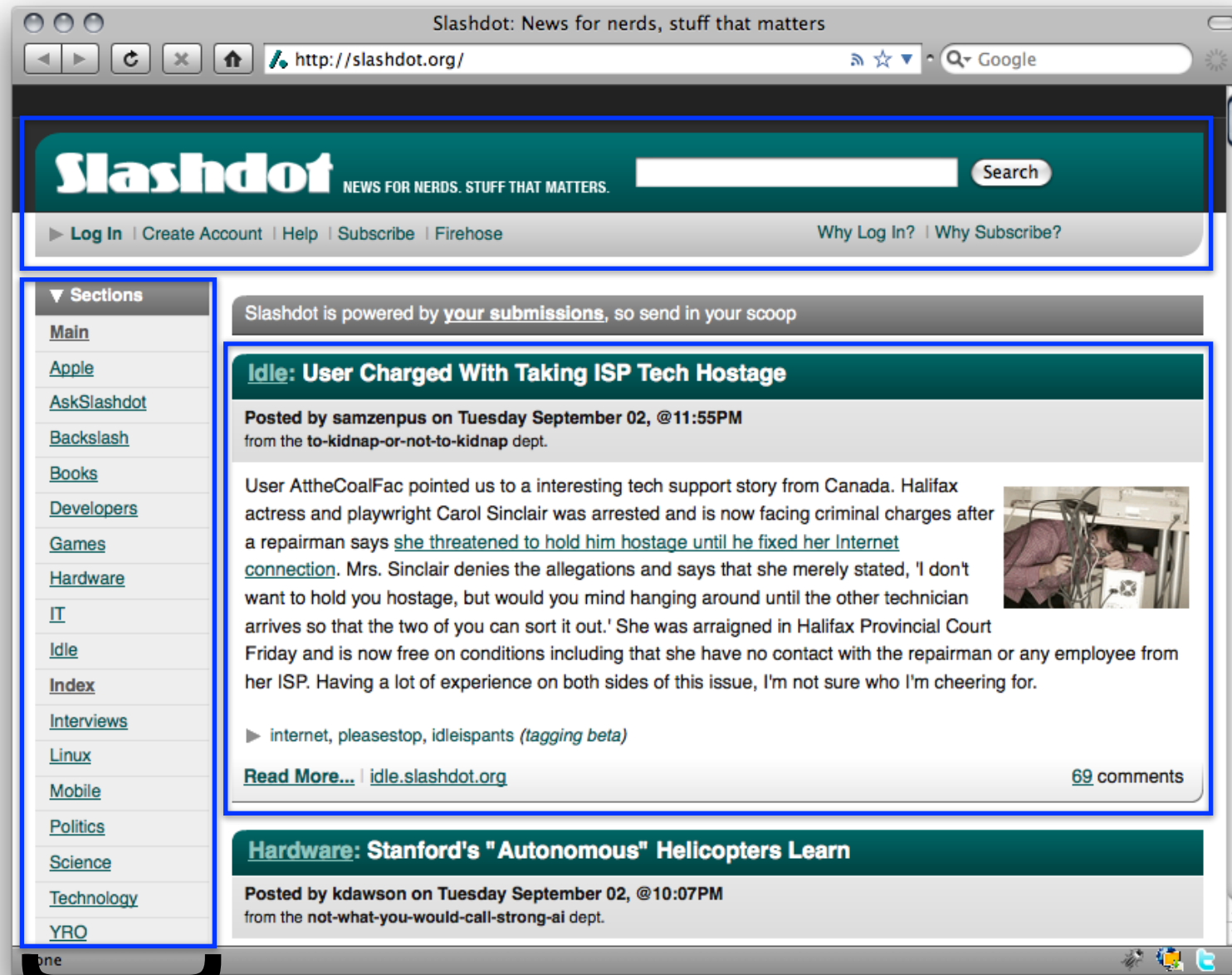
cooperunion.slack.com

#intro-spring-2016

taxonomy

ok, let's start again

Primary
Navigation

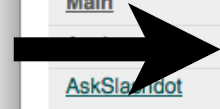


Article

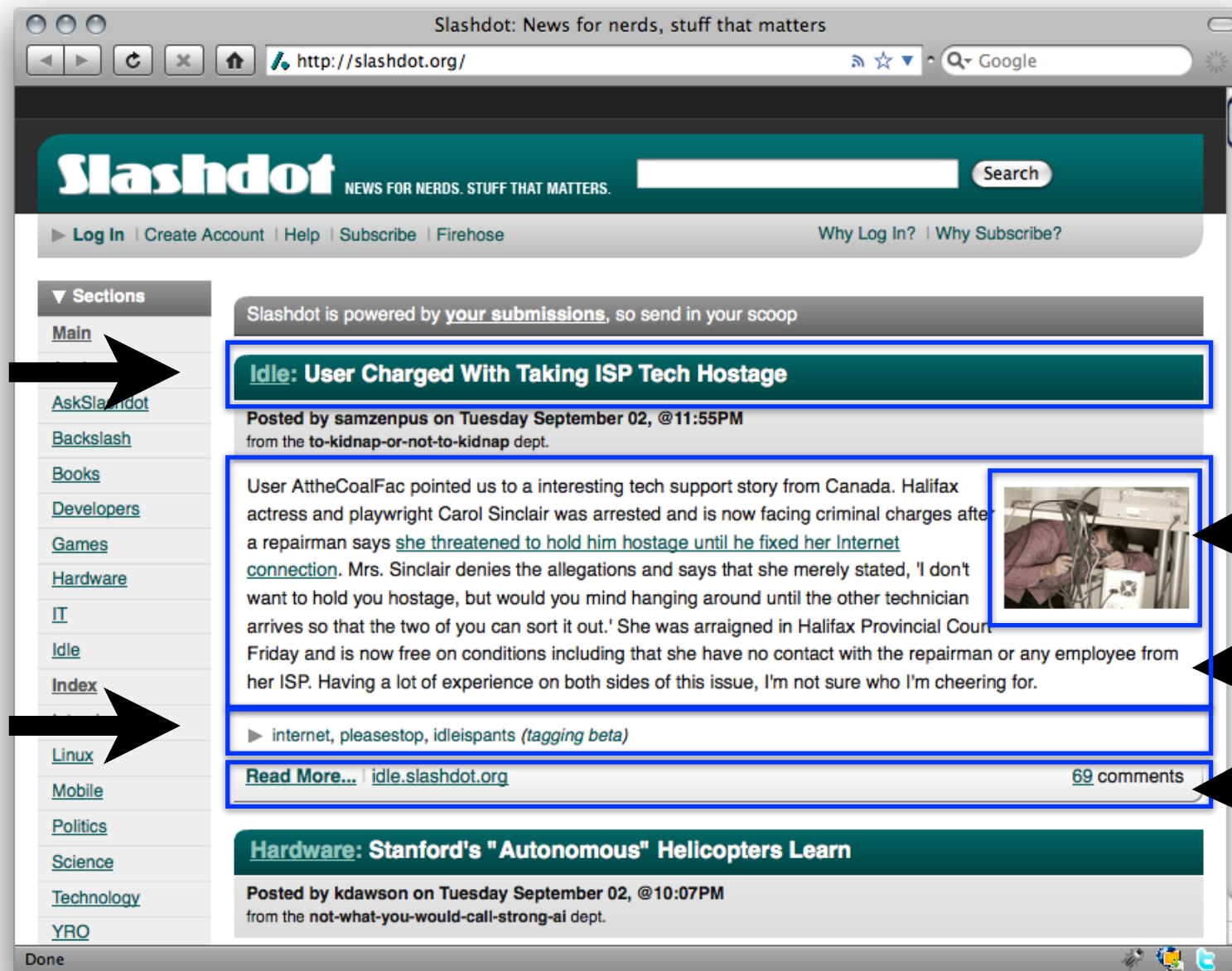
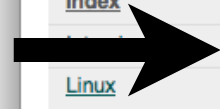
Secondary Navigation

Content Areas

Headline



Categories



Image

Paragraph

Article

Navigation

Specific Content

HTML5?

- Hypertext Markup Language
- Version 5... kind-of

Why HTML5?

- Based on a 20+ year evolution of HTML
- Simplified, clearer syntax to increase adoption
- Valid XML

What is XML?

- A presentation-less document format
- Infinite customization to any purpose
- Adoption by a diverse set of applications



XML-using Apps

Documents

Anatomy of a document

- What type of document is this?
- What Information is available about this document?
- What is the content of the document?

Document Type Definition

- Literally: text that begins a document
- Conceptually: A hint as to the document's purpose

DocTypes are boring but...

- They define the set of rules a document needs to adhere to
- They control the validation of a document
- Restrict what you can do within your document

<!DOCTYPE html
PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

<!DOCTYPE html
PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-
transitional.dtd">

<!DOCTYPE html
PUBLIC "-//W3C//DTD XHTML 1.0 Frameset//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-
frameset.dtd">

<!DOCTYPE html>



New for
HTML5

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Hello, World!</title>
5 </head>
6 <body>
7   |
8 </body>
9 </html>
```

untitled* 1,1 Plain Text Send Feedback 2

A DocType in Action!

Validation is Important

- W3C Standards Body
- Correct Interpretation



Quiz: What color is this?



Red ?



Pantone 032C ?



#ee2c3a ?

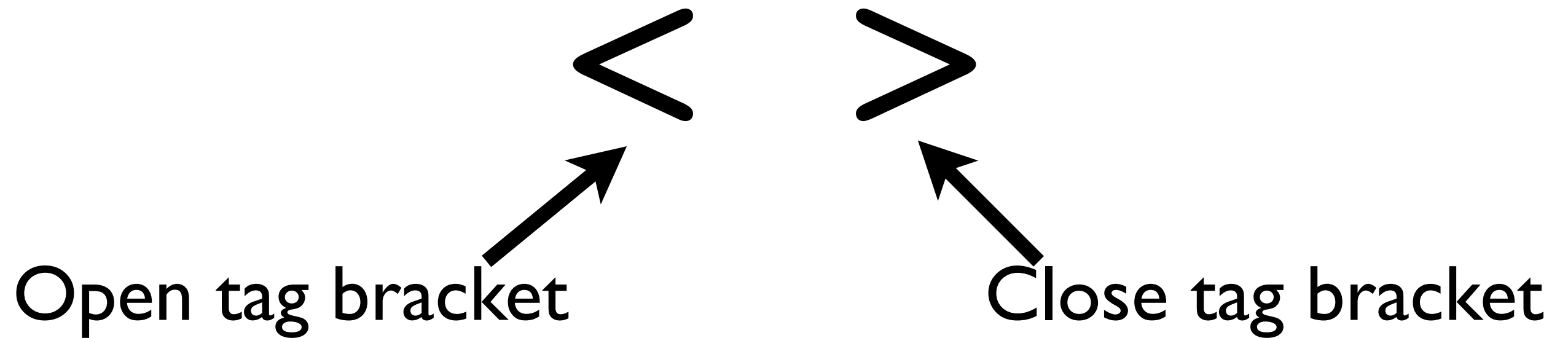
DocType + Validation =

An agreed interpretation

- Without a doctype, who knows what you're talking about
- Without validation, who knows if you agree with yourself

Tags

Anatomy of a Tag



What?

Define a tag

<tag>

Rules of Tags

- Self-closing tags

`<tag />`

- Non-self-closing tags

`<tag> content </tag>`

Examples of html tags

<title>

<link>

<article>

<script>

<section>

<meta>

Examples of less obvious html tags

<p>

<i>

<a>

<u1>

<o1>

Examples non-self-closing of title tag

```
<title>My Homepage!</title>
```

Examples of the self-closing horizontal rule tag

```
<hr />
```

Rules of Tags

- Tags must either be self-closing or closed by the closing tag
- There is a right way for each type of tag
- HTML5 has a valid list of tags allowed

Tag Structure

An article tag with content

```
<article>
```

```
I have written an amazing  
article, boy oh boy. Let me  
tell you about how it begins...
```

```
</article>
```

An article tag with tag content

```
<article>
```

```
<p>
```

I have written an amazing article, boy oh boy. Let me tell you about how it begins.

```
</p>
```

```
<p>
```

It all started one day when..

```
</p>
```

```
</article>
```

An article tag with lots of tags

```
<article>
```

```
<p>
```

```
I have written an amazing  
article, boy oh boy.
```

```
</p>
```

```
<hr />
```

```
<p>
```

```
It all started one day when...
```

```
</p>
```

```
</article>
```

Nesting of tags

- Non-self-closing tags can contain other tags
- The relationship of a tag to a tag it contains is referred to via a parent/child relationship.

Assignment: Create an invented taxonomy to describe something you are very familiar with.

- Using Atom, create a new document.
- Write a bunch of tags to hierarchically describe something you are familiar with.
- Think about the meaning of self-closing vs. non-self-closing tags when expressing meaning.

A bookshelf taxonomy

```
<bookshelf>
```

```
  <shelf>
```

```
    <book />
```

```
    <book />
```

```
    <book />
```

```
  </shelf>
```

```
  <shelf>...</shelf>
```

```
</bookshelf>
```

A more detailed bookshelf taxonomy

```
<shelf>
```

```
  <book>
```

```
    <title>HTML5 for Designers
```

```
  </title>
```

```
    <chapters>
```

```
      <chapter />
```

```
      <chapter />
```

```
    </chapters>
```

```
  </book>
```

```
</shelf>
```

A more ridiculous bookshelf taxonomy

```
<book>
```

```
  <title>HTML5  for  Designers
```

```
</title>
```

```
  <chapters>
```

```
    <chapter>
```

```
      <page />
```

```
      <page />
```

```
    </chapter>
```

```
  </chapters>
```

```
</book>
```

Signs of a good taxonomy

- You can clearly visualize the relationship between parent and child content
- The taxonomy is useful to describe content other than what you specifically made it for

Assignment Part I: Register for these websites!

- <http://github.com> - Version-controlled social coding
- <http://codecademy.com> - Online learning, examples and training
- <http://cooperunion.slack.com> - Our portal for chat and document sharing

Send me your usernames for these services today!

Assignment Part 2: Complete HTML Basics

- [http://www.codecademy.com/courses/web-beginner-en-HZA3b/0/1?](http://www.codecademy.com/courses/web-beginner-en-HZA3b/0/1?curriculum_id=50579fb998b470000202dc8b)
[curriculum_id=50579fb998b470000202dc8b](http://www.codecademy.com/courses/web-beginner-en-HZA3b/0/1?curriculum_id=50579fb998b470000202dc8b)

My Contact Information

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