

IO Lab: Introduction

September 4, 2013

INFO 290TA (Information Organization Lab)
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Goals

Hands-On Experience

With concepts explored in INFO 202

HTML



CSS



git



Class Format

M Lecture

W Lab

(for the most part)

Grading

Class participation (15%)

Homework (20%)

4 homeworks

5% each

Project (65%)

4 projects

P1 = 10%

P2 & P3 = 15% each

P4 = 25%

Grading

Homework

Criteria vary by homework

Project

Concept (50%)

Implementation (50%)

Communication

In-class discussion

Office hours

Piazza *

Email *

* we may not respond immediately, so please be patient

Office Hours

Raymon

W 3:30 pm - 4:30 pm (may change)

Kate

by appointment for now

Syllabus

1. The Basics / HTML, CSS, git, Javascript/jQuery
2. Data/Devices / APIs, mobile web, responsive design
3. Visualization / svg, d3.js, Google Maps
4. More Software Engineering / Python, Flask, TBD

Course website

<http://courses.ischool.berkeley.edu/i290-iol/f13/>

Questions?



Student Introductions

Name

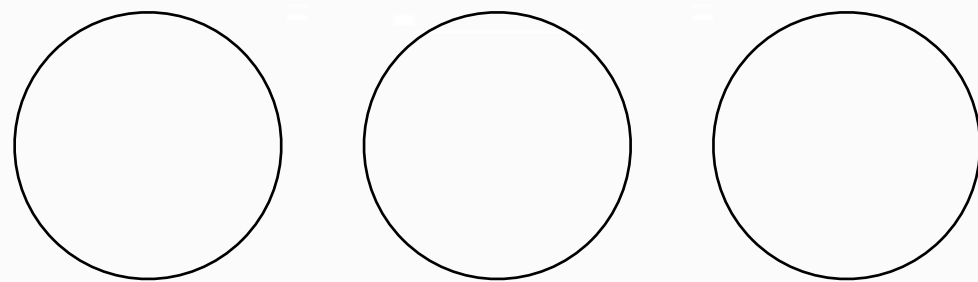
Department

**Favorite book/food/color/
band/activity/whatever**

Let's Start

HTML

(STRUCTURE)



HTML

Hypertext Markup Language.

The main markup language for creating web pages and other information that can be displayed in a web browser.

HTML Structure

```
<p>This is a paragraph.</p>
```

```

```

```
<ul>
```

```
  <li>item one</li>
```

```
  <li>item two</li>
```

```
</ul>
```

HTML Structure

```
<p>This is a paragraph.</p>
```

```

```

```
<ul>
```

```
  <li>item one</li>
```

```
  <li>item two</li>
```

```
</ul>
```

ELEMENT



NESTED ELEMENT

HTML Structure

```
<p>This is a paragraph.</p>
```

```

```

```
<ul>
```

```
<li>item one</li>
```

```
<li>item two</li>
```

```
</ul>
```

TAG



CLOSING TAG

HTML Structure

```
<p>This is a paragraph.</p>
```

```

```

```
<ul>
```

```
  <li>item one</li>
```

```
  <li>item two</li>
```

```
</ul>
```

ATTRIBUTE



Some Common HTML Elements

head

body

h

p

a

ul

ol

li

img

div

form

input

script

link

span

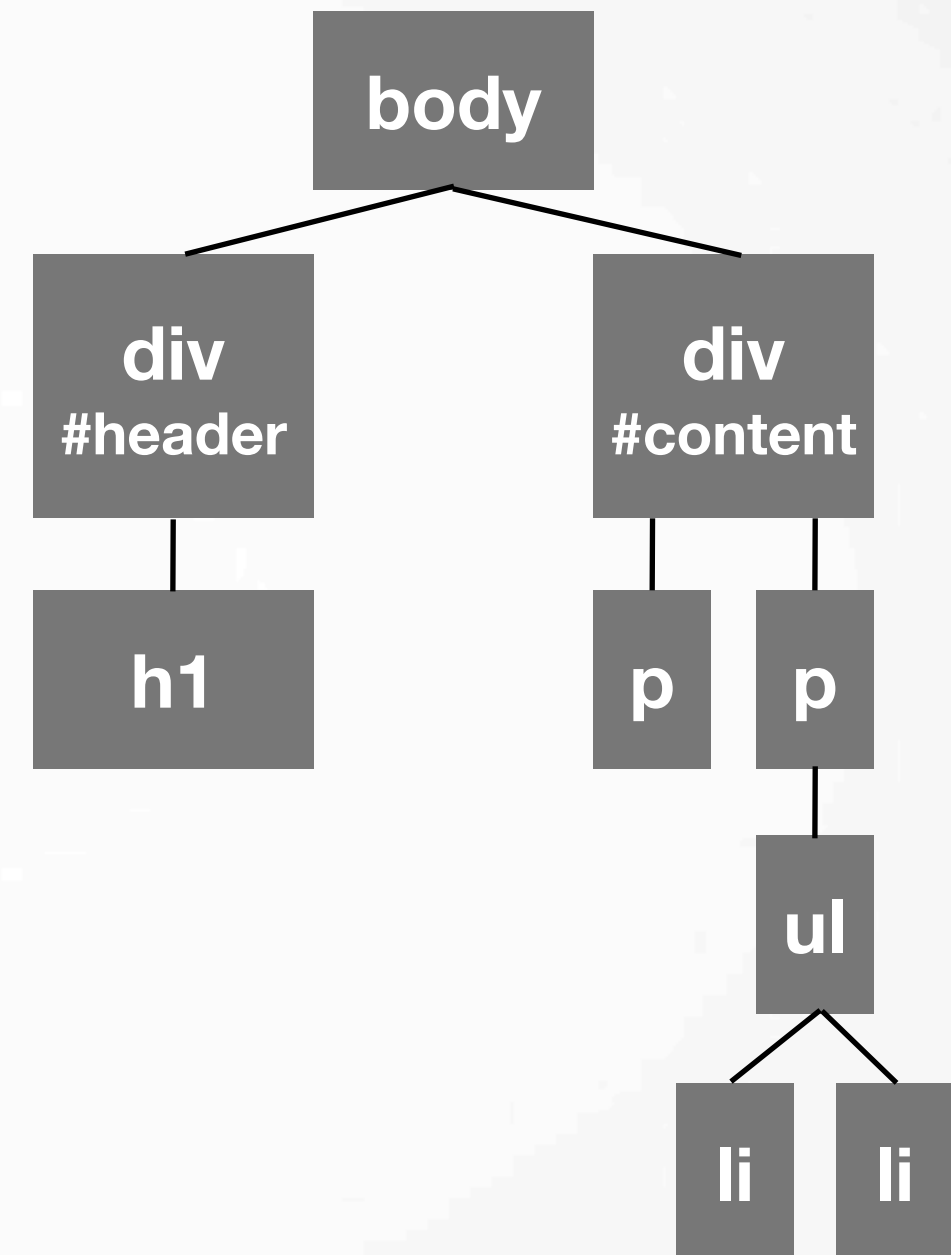
title

select

hr

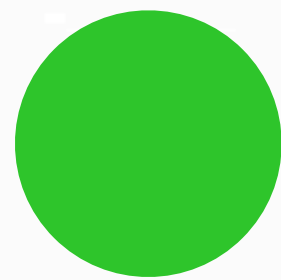
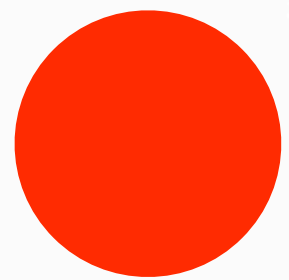
Document Object Model

```
<html>
<body>
<div id="header">
  <h1>Title</h1>
</div>
<div id="content">
  <p>Paragraph</p>
  <p>Paragraph
    <ul>
      <li>Item 1</li>
      <li>Item 2</li>
    </ul>
  </p>
</div>
</body>
</html>
```



CSS

(APPEARANCE)



CSS

Cascading Style Sheets.

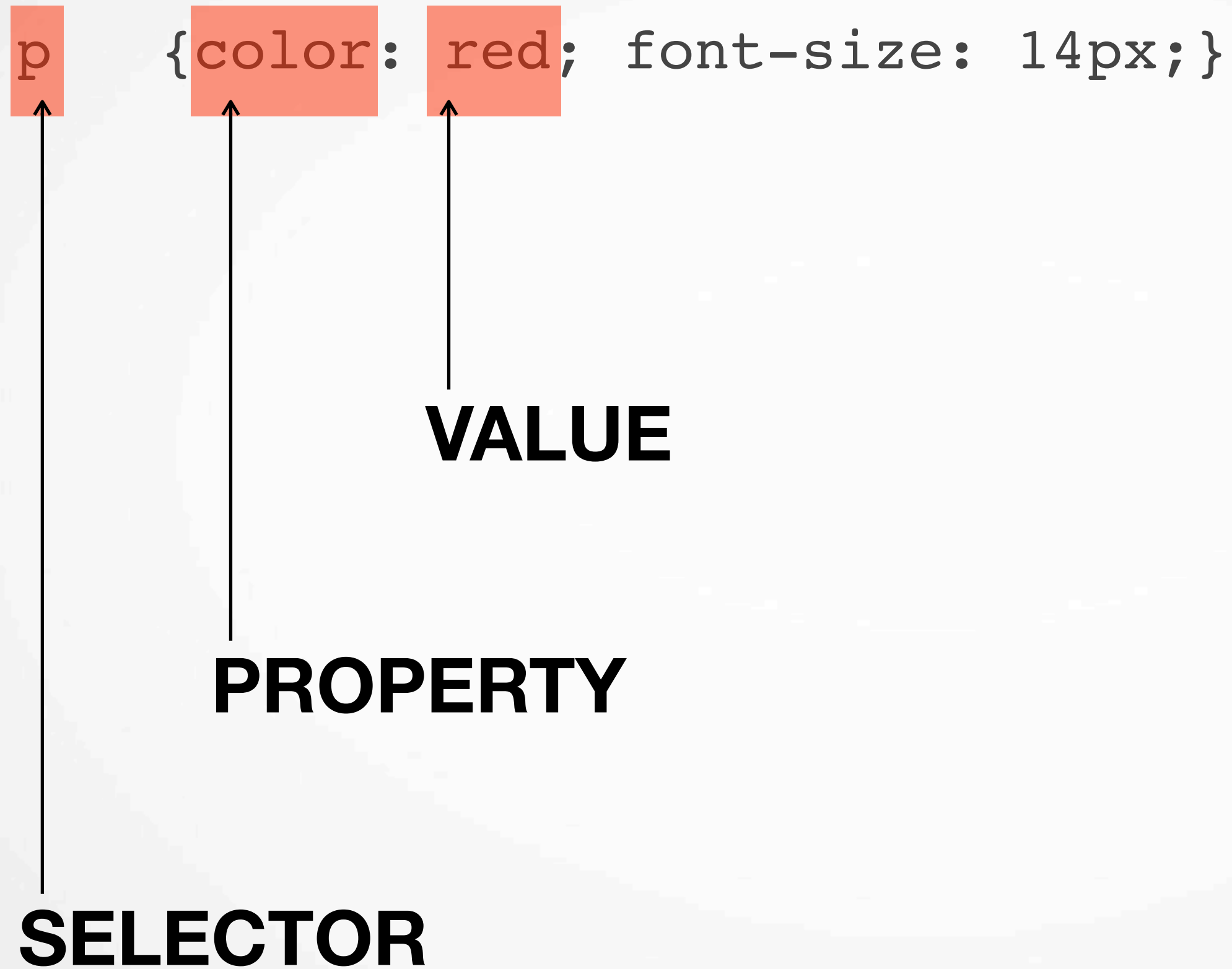
A style sheet language used for describing the presentation of a document written in a markup language.

Most commonly used to style HTML, but can also be used for any kind of XML documents (e.g. SVG).

CSS Structure

```
p {color: red; font-size: 14px;}
```

CSS Structure



Selectors

	HTML	CSS
tag	<code><p></code>	<code>p</code>
id	<code>id="header"</code>	<code>#header</code>
class	<code>class="date"</code>	<code>.date</code>
descendant	<code><div><p></code>	<code>div p</code>

Id VS Class

Id	Class
Specifying styles (CSS) & targeting DOM elements (Javascript)	
A single, unique element	Several elements
#name	.name

Some Common CSS Properties

background

position

color

width

float

clear

height

z-index

border

text-align

display

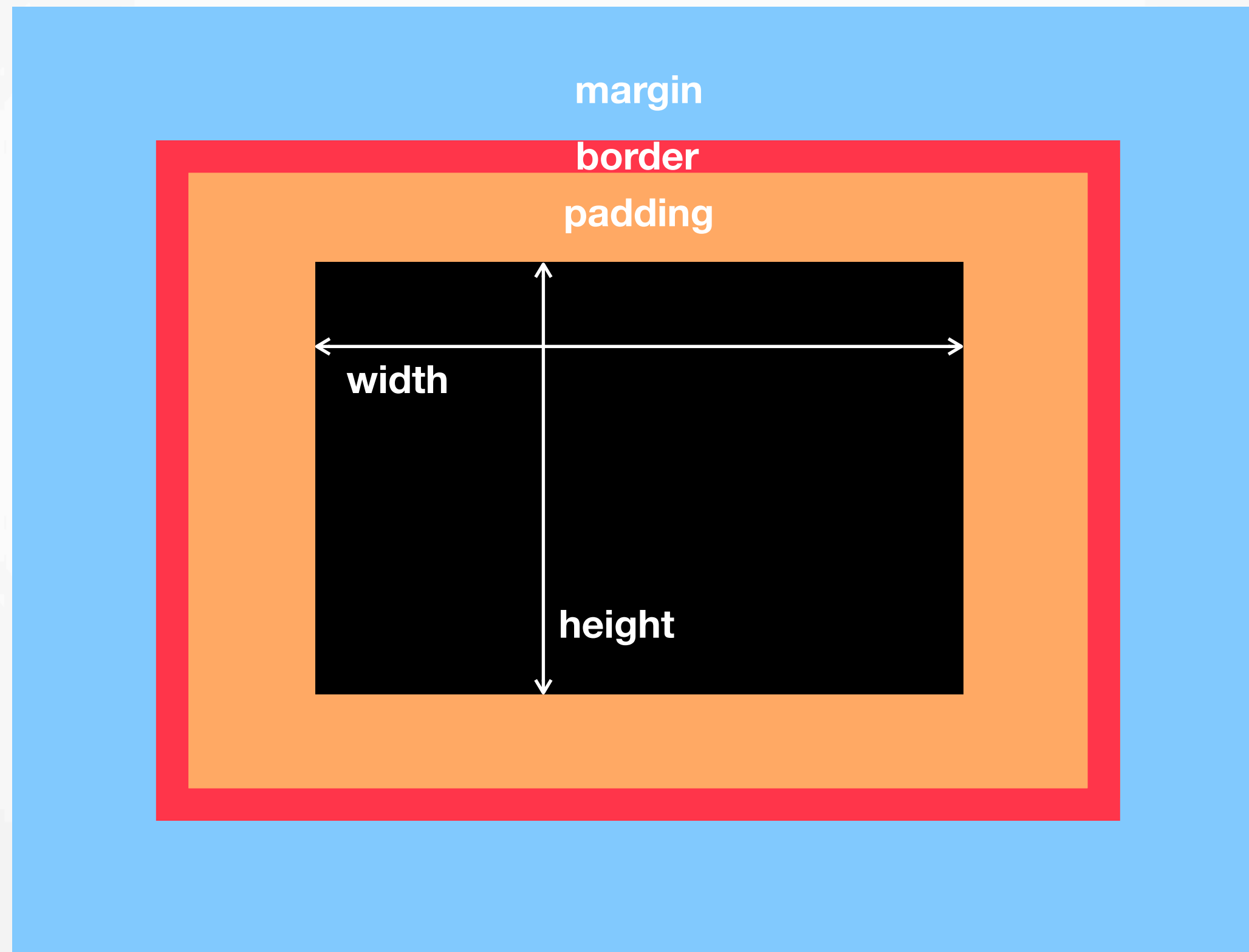
font-
family

padding

line-
height

margin

The Box Model



Class Survey

<http://tinyurl.com/pthmaan>

Homework 0 Assigned

Next Class

Next Class

More HTML & CSS

Getting started with version control & Git

Reading

Pro Git (chapter 1 & 2)