



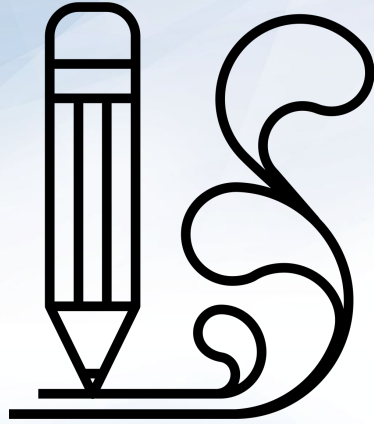
# Down and Dirty CSS

Web Development Boot Camp  
Lesson 2.2



# A Few Admin Items

**No class this Saturday 9/5!**



## **Homework is due next Tuesday!**

Don't forget to submit both the GitHub and GitHub Pages links.

## **Not sure how?**

Please review the last 30 minutes of Tuesday's class video



**The Pace Is Fast!**

# Pace Is Fast

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Here's the reality: the pace of this program is fast.



We could slow down and make it easier, but that wouldn't prepare you to be developers right out of the program.



Take up the challenge. Try to retain as much as you can during the course.



After the program is over, go back and review the concepts you need a refresher on.



Don't try to master every little detail.



Focus on the big picture and how to find what you need, when you need it.

# Pace Is Fast

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That said, as instructors and TAs, we are here to help!



Share your GitHub code as you run into issues. We can let you know if you're going in the right (or wrong) direction.



Come to office hours! We can review your code with you, offer tips on homework, or just give you a pep talk if that's what you need.



Reach out to Student Success if want to schedule a 1-on-1 meeting.

# **The Homework??**



# Homework Is Hard

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Check your homework due dates in Boot Camp Spot.



Generally speaking, expect homework to be semi-challenging.



Make sure you're setting aside a solid block of time for each assignment.



If you find yourself working on an assignment for over two hours without even a small amount of progress, let us know!

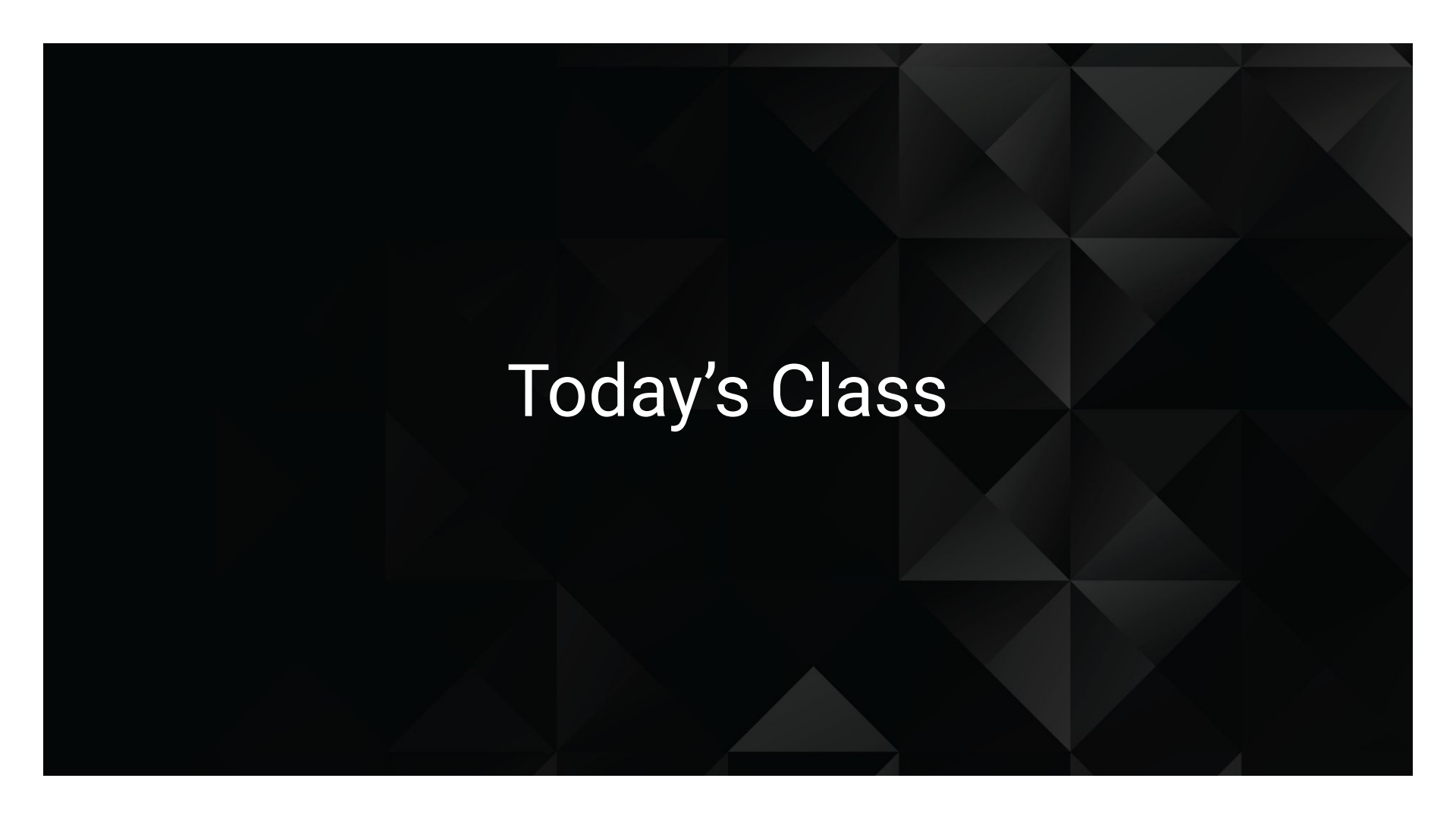


You don't win points in life for staring at a blank screen.

# Other admin items

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- Read the Grid system article before next class
-



# Today's Class

# Objectives

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In today's class, we'll introduce:



CSS Selectors



CSS Resets



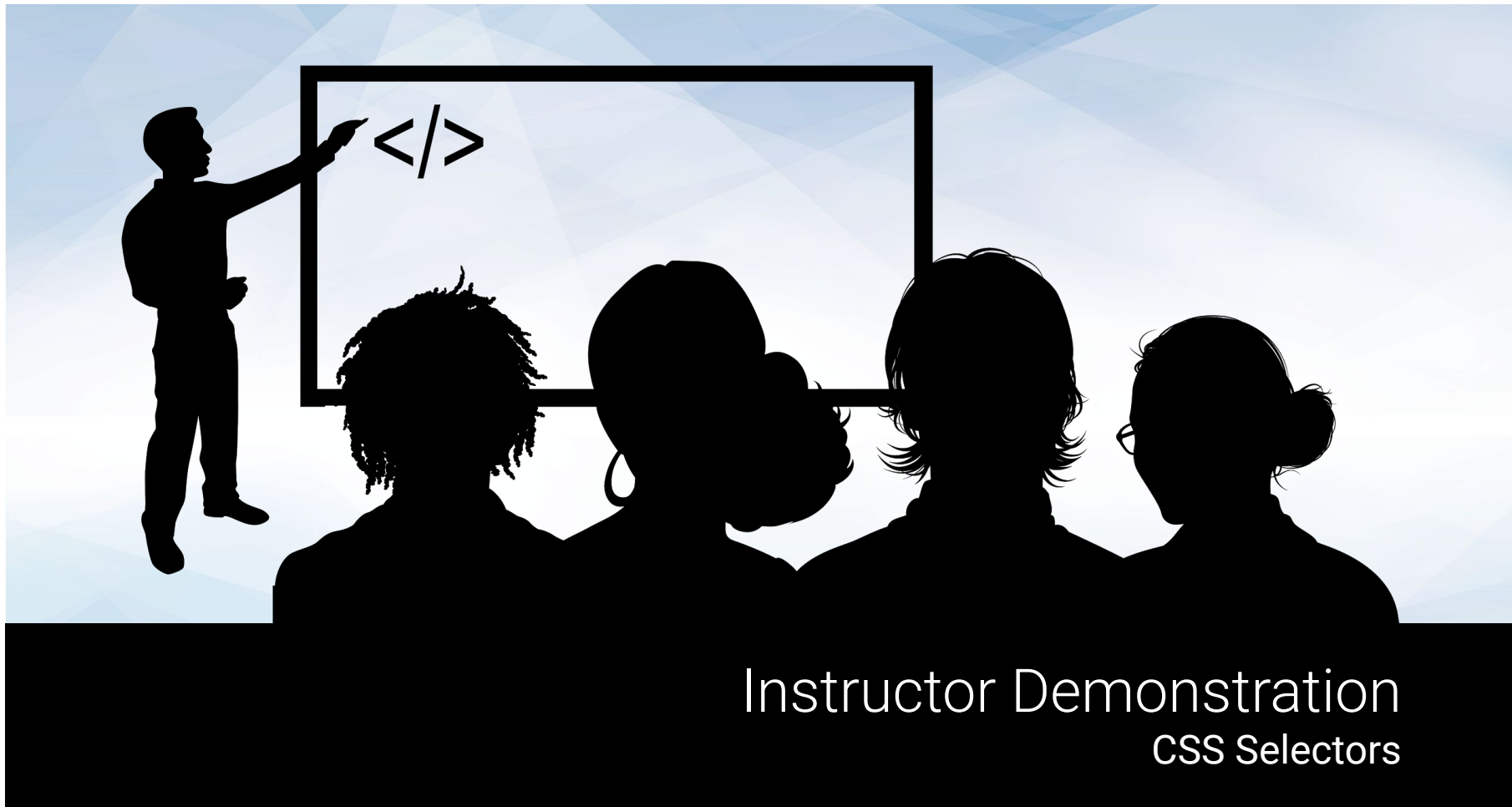
CSS Typography and Google Fonts



Pseudo-Classes



The Basics of Twitter Bootstrap



# Instructor Demonstration

## CSS Selectors

# Pseudo Styles

# Pseudo-Classes

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CSS provides keywords that can be added to selectors. These keywords can highlight the special states of the selected element.

**Great example:** CSS can hook onto the specific moment when a link is hovered over using the `:hover` pseudo-class.

**Complete list of pseudo-classes:** [developer.mozilla.org](https://developer.mozilla.org)

Index of standard pseudo-classes				
<code>:active</code>	<code>:first-child</code>	<code>:last-child</code>	<code>:only-child</code>	<code>:root</code>
<code>:any</code>	<code>:first-of-type</code>	<code>:last-of-type</code>	<code>:only-of-type</code>	<code>:scope</code>
<code>:checked</code>	<code>:fullscreen</code>	<code>:left</code>	<code>:optional</code>	<code>:target</code>
<code>:default</code>	<code>:focus</code>	<code>:link</code>	<code>:out-of-range</code>	<code>:valid</code>
<code>:dir()</code>	<code>:hover</code>	<code>:not()</code>	<code>:placeholder-shown</code>	<code>:visited</code>
<code>:disabled</code>	<code>:indeterminate</code>	<code>:nth-child()</code>	<code>:read-only</code>	
<code>:empty</code>	<code>:in-range</code>	<code>:nth-last-child()</code>	<code>:read-write</code>	
<code>:enabled</code>	<code>:invalid</code>	<code>:nth-last-of-type()</code>	<code>:required</code>	
<code>:first</code>	<code>:lang()</code>	<code>:nth-of-type()</code>	<code>:right</code>	

# Button with Various States

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You can use pseudo-classes to define how a button appears in various states.



Default State

Hover State

Focus State

Active State



# CSS Typography

# Typography Is Huge

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Typography can play a huge role in the visual aesthetic and emotional identity of a webpage.



# Typographic Properties

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Typographic properties describe attributes of the type on the page.



**Line Height:** Distance between lines of text on a page (Golden Ratio of 1.5x font).



**Font Size:** Actual size of lettering. Should be at least 16 px on modern pages.

[smashingmagazine.com](https://smashingmagazine.com)



**Line Length:** Not a CSS property but rather a standard. Should be about 50–75 characters per line on a desktop. [baymard.com](https://baymard.com)



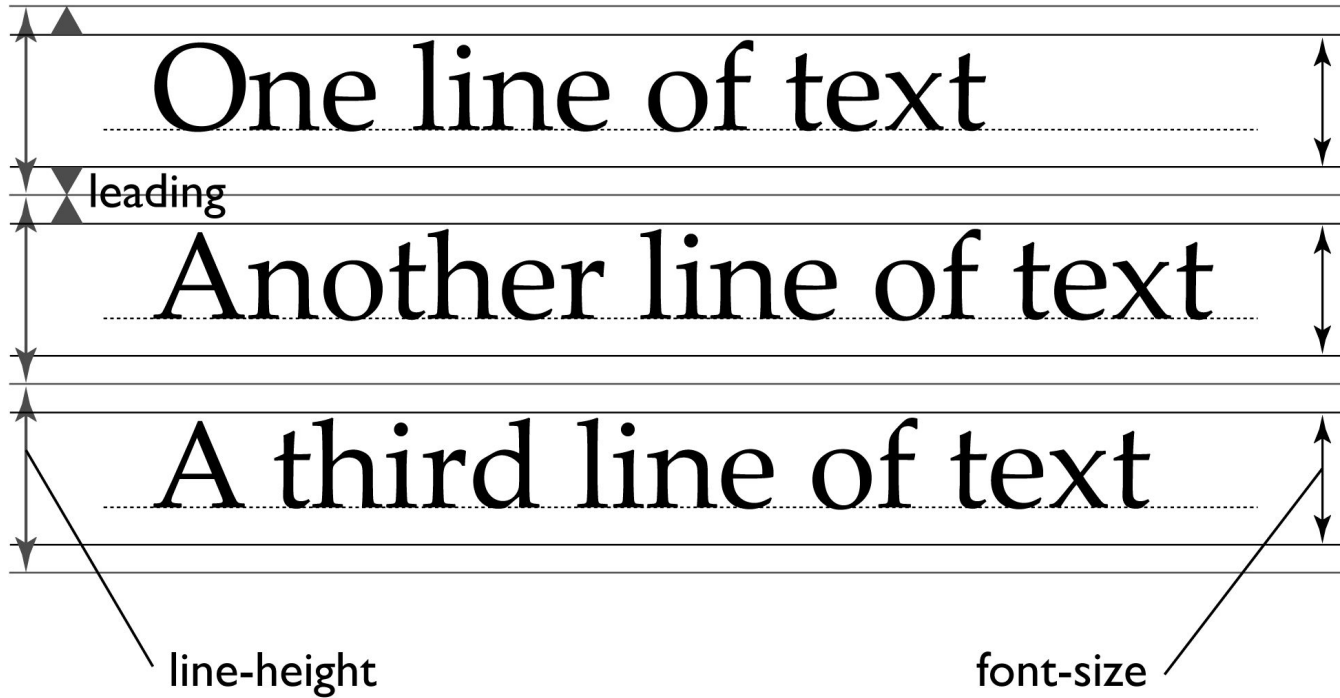
**Letter Spacing:** Spacing between individual letters. Try to avoid cramming letters together too closely.



**Sans-Serif vs. Serif:** Sans-serif are fonts *sans their serifs*—no tails. They're easier to read online.

# Line Height vs. Fonts

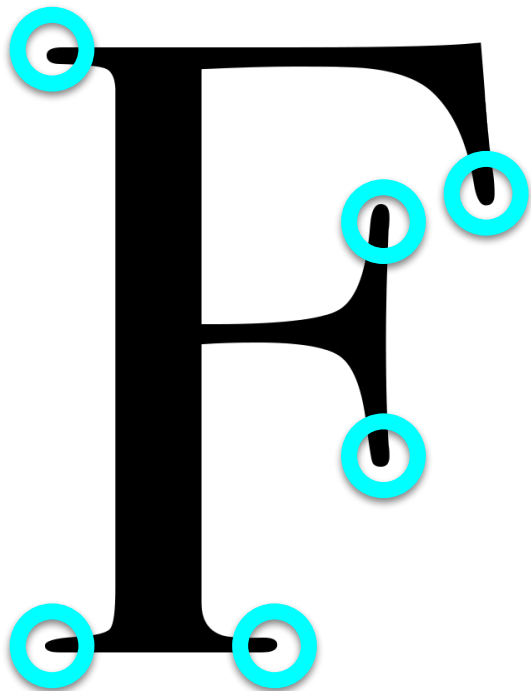
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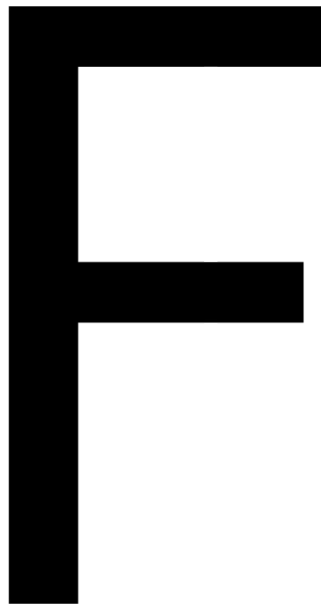
# Serif vs. Sans-Serif

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Serif fonts include small lines attached to the end strokes of letters.



Sans-Serif (“without serif”) do not include such strokes.



# Activity: CSS Typography

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Using the `html-template` file provided to you, create an external CSS stylesheet to modify the typography of each of the body paragraphs.

**Use CSS styling to modify the following properties:**

- Font-family
- Font-size
- Font-weight
- Line-height
- Letter-spacing

**Bonus:**

If you finish early, read about TypePlate and see if you can figure out how to incorporate it into your site (<http://typeplate.com/>).

**Suggested Time:** 10 minutes



# Google Fonts

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It's easy to incorporate [Google's custom fonts](#) into your site!

Roboto

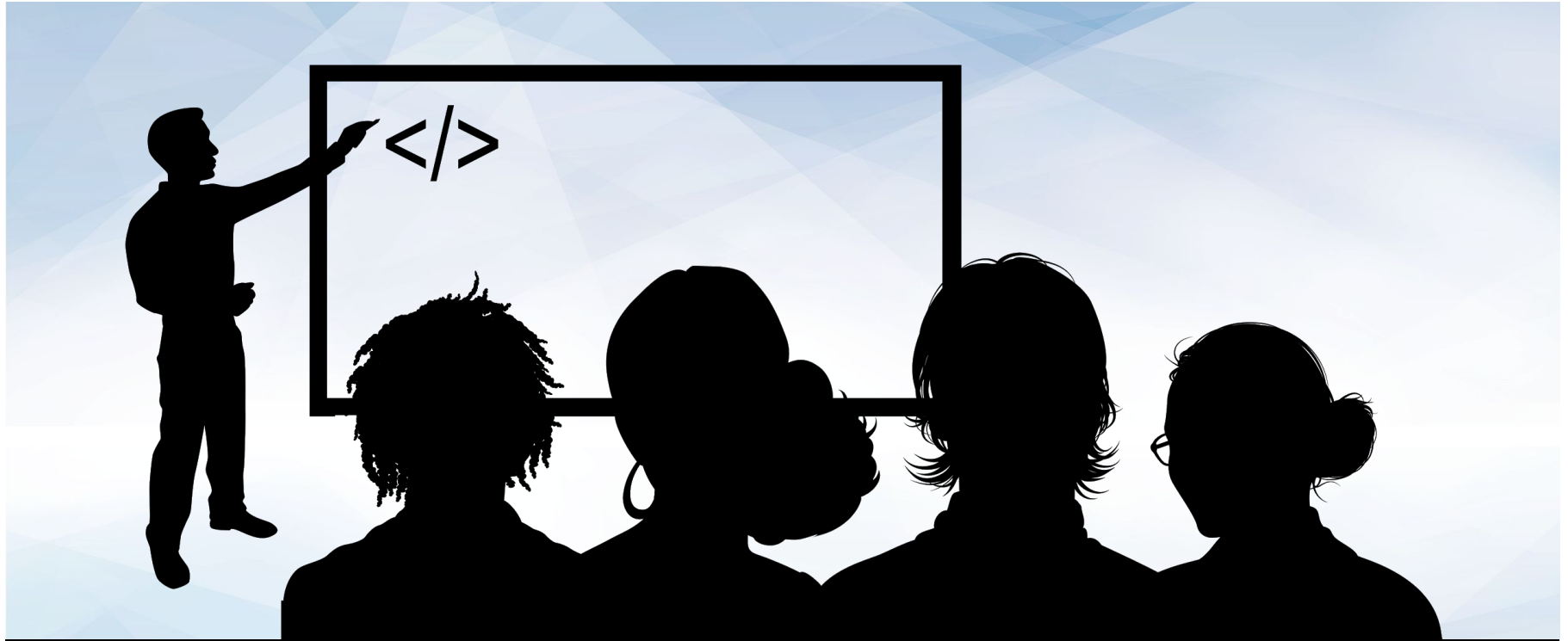
Christian Robertson

All their equipment  
and instruments  
are alive.

Coiny

Marcelo Magalhães

**A red flare silhouetted  
the jagged edge of a  
wing.**



# Instructor Demonstration

## Custom Fonts



# Activity: Custom Google Fonts

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## Assignment:

Create (or re-use) an HTML document and then incorporate 2–3 custom Google fonts ([fonts.google.com](https://fonts.google.com)) into the page.

## Bonus:

If you finish early, read about Font Awesome icons ([www.fontawesome.com](https://www.fontawesome.com)) and see if you can figure out how to incorporate one onto your page.

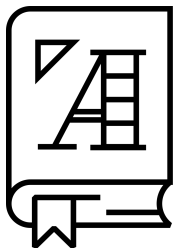
**Suggested Time:** 11 minutes



# Beyond CSS Hacking

# Quick Refresher on HTML/CSS

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**HTML:** Hypertext Markup Language (Content)

**CSS:** Cascading Style Sheets (Appearance)

**HTML and CSS are the “languages of the web.”** Together, they define both the content and the aesthetics of a webpage, including colors, fonts, and content placement. (JavaScript is the third language of the web: it handles logic, animation, etc.)

# HTML vs. HTML/CSS

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HTML Alone	HTML and CSS
Like writing papers in Notepad.	Like writing papers in Microsoft Word.
Used to write unformatted text (i.e, content only).	Used both to write the content <i>and</i> format it (color, font, alignment, layout, etc.).
	

# How You (Probably) Feel About CSS





**A revelation. There is a better way!**





# Instructor Demonstration

Where's the CSS?



## Partner Activity: Where's the CSS?

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With those sitting nearest to you, take a close look at the Bootstrap-powered HTML document I just sent you.

Be prepared to answer the following two questions:

01

Where does this HTML document draw its styles from?

02

How does our browser know which HTML element to style, and in which way? (e.g., button face or background banner)

**HINT:** Think about how Google Fonts work.

**Suggested Time:** 5 minutes



# Powered by Bootstrap

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External CSS Link:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <title>My First Website</title>
5   <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/
    bootstrap/3.3.6/css/bootstrap.min.css">
6 </head>
7 <body>
```

Predefined CSS Class (e.g., jumbotron):

```
<div class="jumbotron">
  <h1 class="text-center"><strong>Awesome Header</strong></h1>
  <h2 class="text-center">Smaller Awesome Header</h2>
  <h3 class="text-center">Even Smaller Header</h3>
  <p class="text-center"><a class="btn btn-danger btn-lg" href="#" role="button">
<span class="glyphicon glyphicon-envelope"></span> Learn more</a></p>
</div>
```

# Powered by Bootstrap

The Coding Bootcamp

Home

About

Contact

Dropdown ▾

Default

Static top

Fixed top

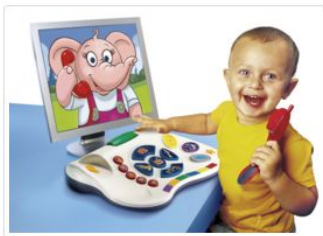
## Awesome Header

Smaller Awesome Header

Even Smaller Header

✉ Learn more

**class="jumbotron"**



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Using Bootstrap gives us  
*predefined* CSS styles.

# Partner Activity: Predefined CSS

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Turn to the person next to you and celebrate!



Then discuss the concept of Bootstrap to confirm that you both understand why you are celebrating.



**HINT:** You should be explaining why Bootstrap's predefined CSS a big deal.

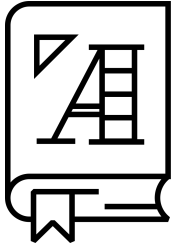
**Suggested Time:** 5 minutes



# What Is Bootstrap?

# Bootstrap Definition

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Bootstrap is a free collection of tools for creating websites and web applications.



It comes with a pre-built design template for typography, forms, buttons, navigation, UI elements, and JavaScript.



Bootstrap documentation: [getbootstrap.com](https://getbootstrap.com)

# Why Use Bootstrap?

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## Reason #1: UI Kit



Familiarize yourself with the UI features Bootstrap offers by reading the documentation.



Once Bootstrap is active, you can simply copy snippets from the documentation to save yourself the time it takes to create elements from scratch!





# Why Use Bootstrap?

## Reason #2: Mobile Responsiveness





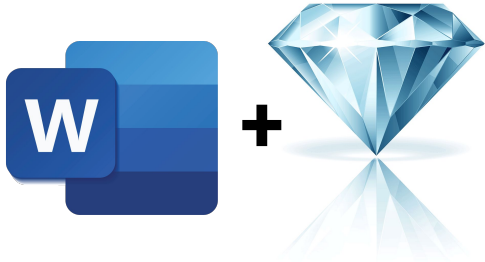
One of the most compelling reasons to use Bootstrap is that it is mobile-responsive by default.



This means that your website will automatically look great when viewed on screens ranging from monitors to tablets to phones.



# HTML/CSS/Bootstrap Analogy

HTML Alone	HTML and CSS	HTML/CSS and Bootstrap
Like writing papers in Notepad.	Like writing papers in Microsoft Word.	Like writing papers in Microsoft Word <i>using a template</i> .
Used to write unformatted text (i.e, content only).	Used both to write the content <i>and</i> format it (color, font, alignment, layout, etc.).	You can still customize it, but you're starting with a pre-built style and aesthetic.
		

# Key Bootstrap Features

# Bootstrap Components

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Bootstrap offers a wide range of components that you should consider including in your future web projects. Flip through the documentation and incorporate elements as you see fit.

Bootstrap Components				
Alerts	Badges	Buttons	Cards	Carousel
Dropdowns	Forms	Jumbotron	List group	Modal
Navs	Popover	Progress Bar	Toast	Tooltips
Several more...				

# Bootstrap Nav Bars

My First Website	Link 1	Link 2	Link 3
------------------	--------	--------	--------

Example:

```
<nav class="navbar navbar-default navbar-fixed-top" role="navigation">
  <div class="container">
    <div class="navbar-header">
      <button type="button" class="navbar-toggle collapsed"
        data-toggle="collapse" data-target="#navbar" aria-expanded="false" aria-controls="navbar">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a class="page-scroll navbar-brand" href="#page-top">My First Website</a>
    </div> <!-- /.navbar-header -->
    <div id="navbar" class="navbar-collapse collapse">
      <ul class="nav navbar-nav">
        <li class="hidden">
          <a href="#page-top"></a>
        </li>
        <li><a href="http://www.google.com" class="nav-btn">Link 1</a></li>
        <li><a href="http://www.facebook.com" class="nav-btn">Link 2</a></li>
        <li><a href="http://www.twitter.com" class="nav-btn">Link 3</a></li>
      </ul>
    </div><!-- /.navbar-collapse -->
  </div> <!-- /.container -->
</nav>
```

# Bootstrap Jumbotron

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# Hello, World!

This is a simple hero unit, a simple jumbotron-style component for calling extra attention to featured content or information.

Learn More

```
<div class="jumbotron">
  <h1>Hello, world!</h1>
  <p>...</p>
  <p><a class="btn btn-primary btn-lg" href="#" role="button">Learn more</a></p>
</div>
```

# Bootstrap Table

---

#	First Name	Last Name	Username
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry	the Bird	@twitter

Example:

```
<table class="table table-striped">
  <tr>
    <th>First Name</th>
    <th>Last Name</th>
    <th>Username</th>
  </tr>
  <tr>
    <td>Mark</td>
    <td>Otto</td>
    <td>@mdo</td>
  </tr>
  ...
</table>
```

# Bootstrap Form

## Email address

## Password

## File input

 No file chosen

Example block-level help text here.

☐ Check me out

## Example:

```
<form>
  <div class="form-group">
    <label for="exampleInputEmail1">Email address</label>
    <input type="email" class="form-control" id="exampleInputEmail1" placeholder="Enter email">
  </div>
  <div class="form-group">
    <label for="exampleInputPassword1">Password</label>
    <input type="password" class="form-control" id="exampleInputPassword1" placeholder="Password">
  </div>
  <div class="form-group">
    <label for="exampleInputFile">File input</label>
    <input type="file" id="exampleInputFile">
    <p class="help-block">Example block-level help text here.</p>
  </div>
  <div class="checkbox">
    <label>
      <input type="checkbox"> Check me out
    </label>
  </div>
  <button type="submit" class="btn btn-default">Submit</button>
</form>
```





# Instructor Demonstration

## Bootstrap Components

# Partner Activity: Bootstrap Components

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Working with someone sitting near you, do the following:

01

Navigate to the Twitter Bootstrap website.

02

Copy the link to the Bootstrap CSS file into one of your old HTML files.

03

Look through the Bootstrap CSS or Components list and incorporate at least three Bootstrap elements into your page.

04

Slack a screenshot of your page to your section's channel when you finish.

**HINT:** First include a link to Bootstrap's CSS. Then visit the Bootstrap page on CSS or Components.

**Suggested Time:** 15 minutes





# Takeaways

# Takeaways

---

It's the end of class! By now, you should be able to:

01

Provide a loose definition of *typography* and list a few CSS properties that can be used to style it.

02

Offer a practical example of using pseudo-classes.

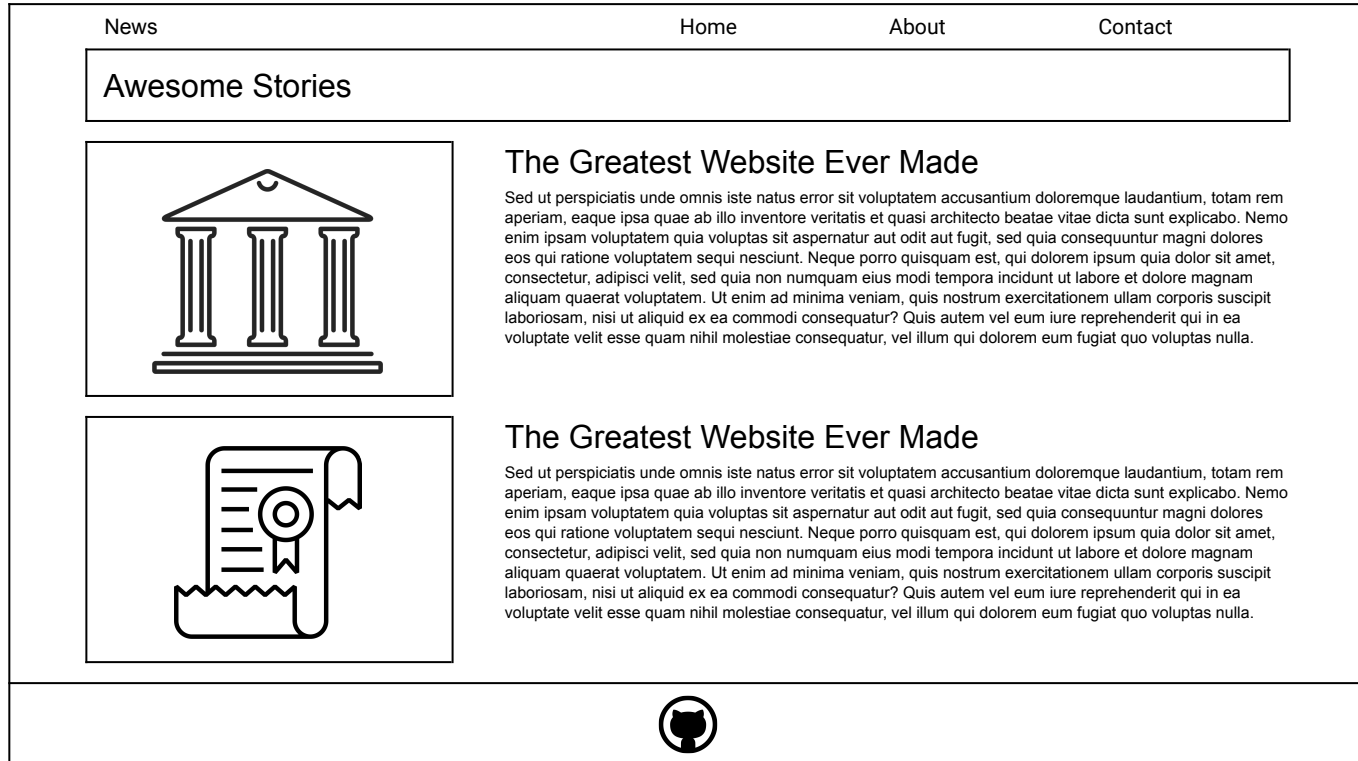
03

Understand generally what Twitter Bootstrap is and why predefined CSS frameworks are so powerful.

04

Know how to incorporate the Twitter Bootstrap style library into your website.

# Next Class: Layout Building!





Questions?