HTML BASICS

HTML BASICS

LEARNING OBJECTIVES

- Articulate the role of HTML, CSS and JavaScript in front-end development.
- Recognize the different roles and responsibilities in web development.
- Apply and experiment with HTML tags.

AGENDA

Front-End vs. Back-End

Intro to Front-End Development

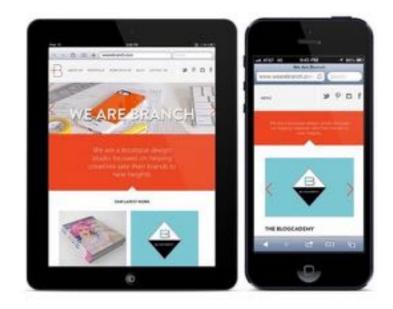
Intro to HTML

Lab Time

FRONT END VS. BACKEND

WEB PRODUCTION WORKFLOW — FRONT END

- Take a design and turn it into code and assets
- Create the visual interface for a website —
 everything the user sees and interacts with.
- Other responsibilities: accessibility, performance, cross-browser and cross-device functionality

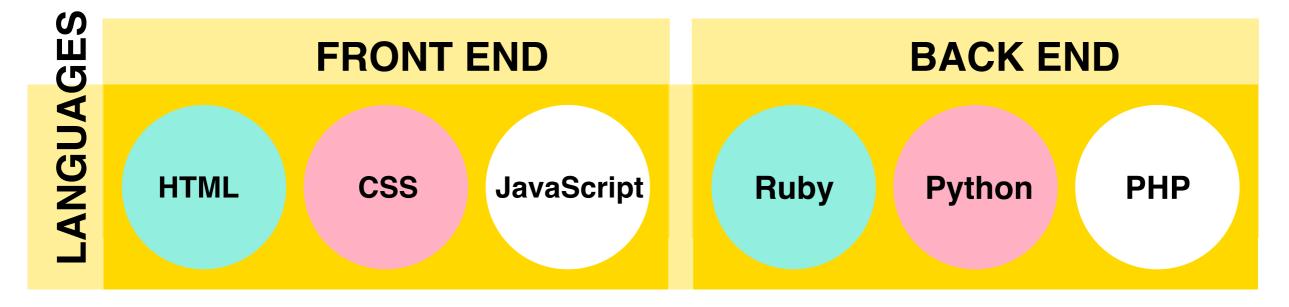


WEB PRODUCTION WORKFLOW — BACK END

- Give the application/webpage a 'memory'
- Talk to the database getting data, adding and updating data
- Authenticate users



FRONT END VS. BACK END



...and many, many more

ACTIVITY



KEY OBJECTIVE

Describe the role and responsibilities of the front-end developer. How do these differ from those of the back-end developer?

TIMING

1 min 1. Discuss with a partner in a breakout room.

1 min 2. Share your response with the class in Slack

BONUS

Come up with an analogy!

INTRO TO FRONT-END WEB DEVELOPMENT

WHAT IS A WEBSITE?

CLIENT AND SERVER

BROWSER

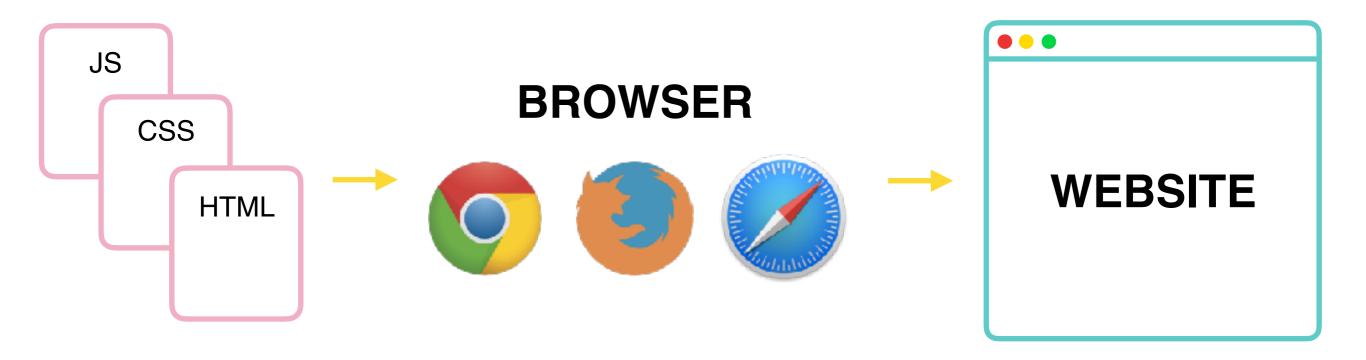
(Chrome, Firefox, Safari, etc.)







CLIENT AND SERVER



- Browsers are applications that read code files and use them to render a web page.
- Browsers only know how to interpret HTML, CSS, JavaScript.

HTML, CSS & JAVASCRIPT

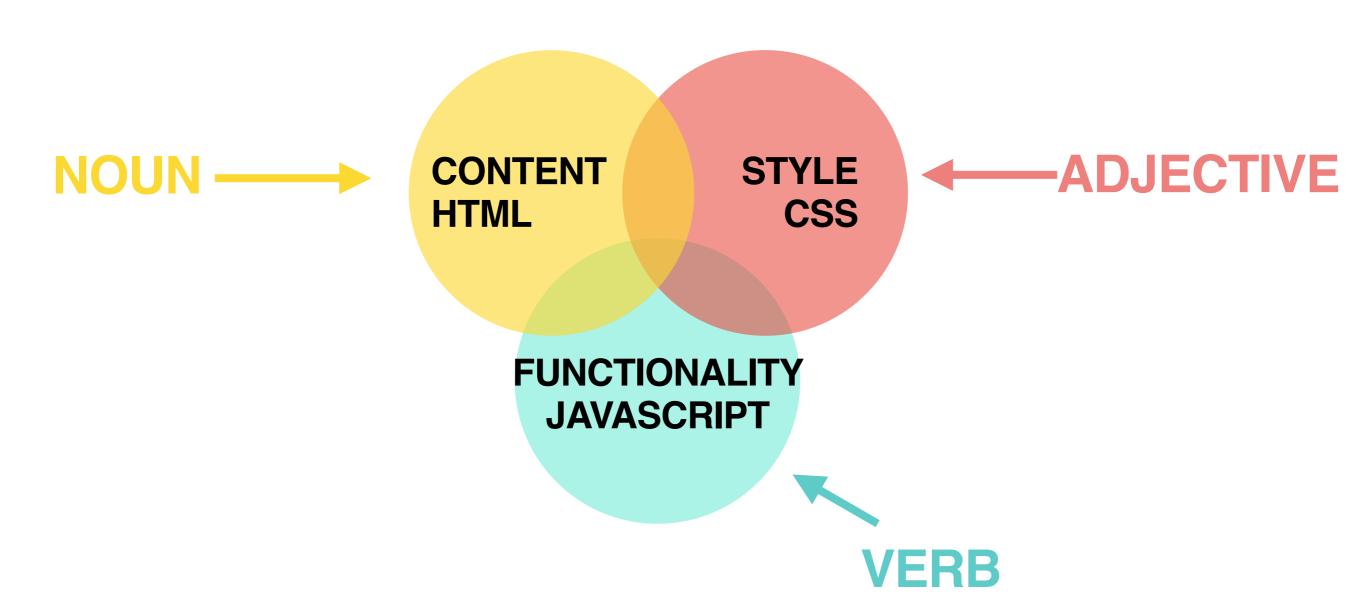
FRONT END IS MADE UP OF...

CSS

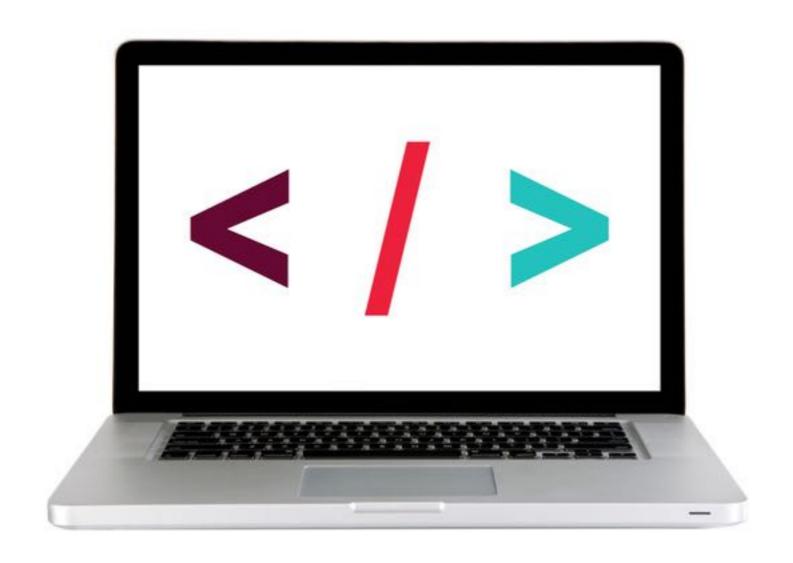
HTML JavaScript



THE THREE AMIGOS: STRUCTURE, STYLE, BEHAVIOR



LET'S TAKE A CLOSER LOOK



ACTIVITY: DISTINGUISH BETWEEN HTML, CSS, AND JS

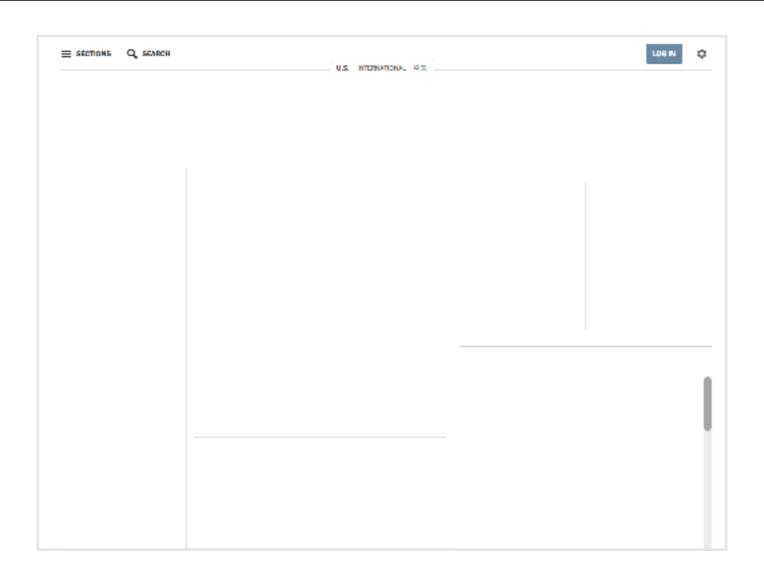
DIRECTIONS

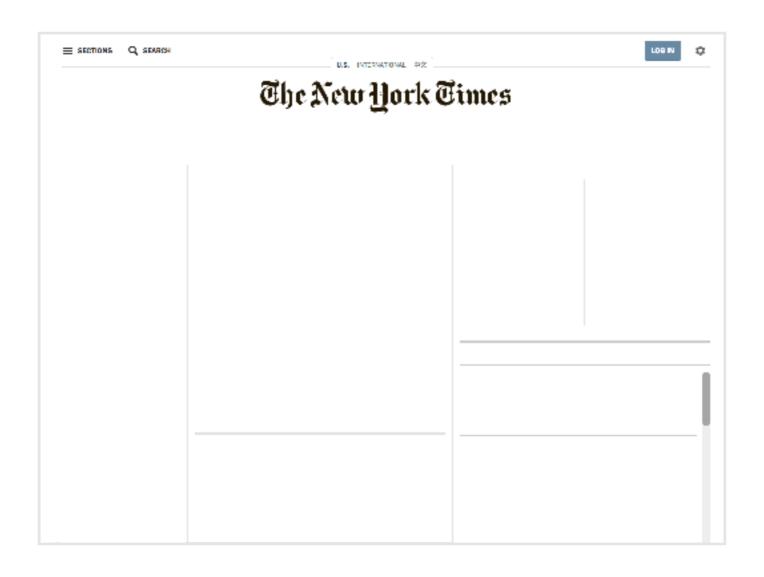


- 1. Visit <u>lyft.com</u>.
- 2. The words "A Ride in Minutes" appears due to _____?
- 3. The reason for which "A Ride in Minutes" is uppercase and white is due to _____?
- 4. Hover over the word "Explore" in the navigation menu. That animation is most likely due to _____?

HTML BASICS











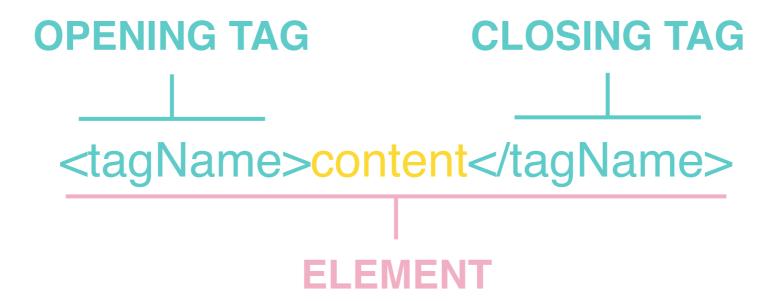




HTML BASICS

STRUCTURAL MARKUP

HOW DO I WRITE HTML?



STRUCTURAL TAGS — HEADINGS & PARAGRAPHS

ELEMEN	T DESCRIPTION	EXAMPLE
h1	Main headings	<h1>The Explorer</h1>
h2 - h6	Subheadings	<h2>Articles</h2>
р	Paragraph of text	This is a really cool site.

HTML CODE-ALONG

Elements can be nested inside other elements.

```
     Monday
     Tuesday
     Wednesday
```

STRUCTURAL TAGS — UNORDERED LISTS

ELEMENT DESCRIPTION		
ul	Unordered List	
li	List Item	

EXAMPLE

```
    Monday
    Tuesday
    Wednesday
```

HTML BASICS

ATTRIBUTES — ANCHORS AND IMAGES

ATTRIBUTES — EXAMPLE

<pizza crust="thin" toppings="pepperoni"></pizza>

ANCHOR

- Specify which page you want to link using the href attribute.
- ▶ Users can click on anything between the opening and closing <a> tags.



THE IMAGE TAG

LINKING TO AN IMAGE IN MY WEBSITE

LINKING TO AN IMAGE ONLINE:

PATH TO IMAGE FILE INCLUDING
HTTP OR HTTPS

MORE HTML BASICS

BASIC LAYOUT OF AN HTML DOCUMENT

HTML STRUCTURE

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>Document</title>
</head>
<body>
</body>
</html>
```

HTML STRUCTURE — DOCTYPE

DESCRIPTION:

Tells browser file is written in latest
 version of HTML — HTML5

BEST PRACTICES:

Must be very first thing in HTML file!

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>Document</title>
</head>
<body>
</body>
</html>
```

HTML STRUCTURE — HTML

DESCRIPTION:

 ALL of our HTML code should go within these tags.

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>Document</title>
</head>
<body>
</body>
</html>
```

HTML STRUCTURE — HEAD

DESCRIPTION:

- For behind-the-scenes info
- Metadata that's not displayed
- Info used by browser, search engines

BEST PRACTICES:

Only one in each HTML file

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>Document</title>
</head>
<body>
</body>
</html>
```

HTML STRUCTURE — META CHARSET

DESCRIPTION:

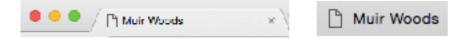
- Tells our browser which character set to use
- Should always use UTF-8

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>Document</title>
</head>
<body>
</body>
</html>
```

HTML STRUCTURE — TITLE

DESCRIPTION:

- Tells browser what site is called
- Used for browser tab
- Used for browser bookmarks
- Used by search engines



```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>Document</title>
</head>
<body>
</body>
</html>
```

HTML STRUCTURE — BODY

DESCRIPTION:

- Wraps all content for our site
- Everything we want displayed in the browser window gets placed between the body tags — our HTML elements such as <h1>, <a>, , etc.

BEST PRACTICES:

Only one in each HTML file

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>Document</title>
</head>
<body>
</body>
</html>
```

HTML STRUCTURE — BODY



HTML STRUCTURE

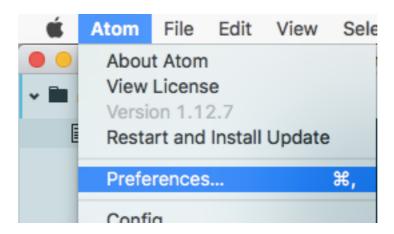


MORE HTML BASICS

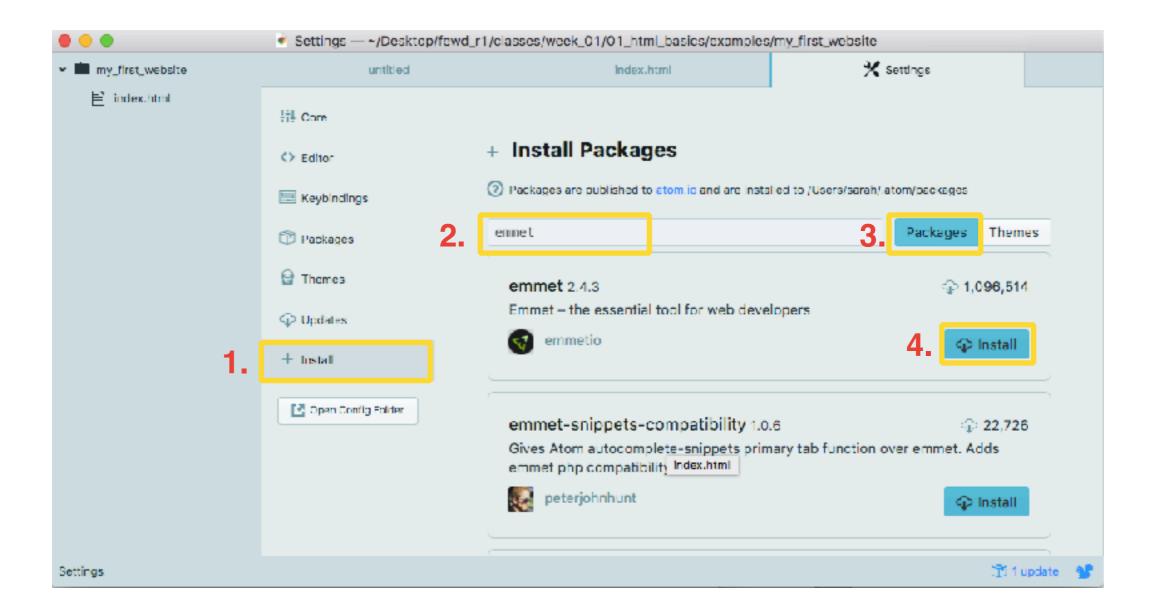
ATOM CONFIGURATION

PLUGINS

Go to Atom > Preferences (File > Settings on Windows)



EMMET PLUGIN



HTML STRUCTURE

```
<!DOCTYPE html>
              <html lang="en">
              <head>
                <meta charset="UTF-8">
                <meta name="viewport" content="width=device-width, initial-scale=1.0">
! + tab
                <meta http-equiv="X-UA-Compatible" content="ie=edge">
                <title>Document</title>
               </head>
              <body>
              </body>
              </html>
```

SHORTCUTS

Tag name + tab

SHORTCUTS

Find more Emmet shortcuts here

SHORTCUTS — COMMENTS

Mac: select text then command + /

Windows: select text then control + /

<!-- <h1>This is my page title</h1> -->

SHORTCUTS — OTHER HELPFUL SHORTCUTS

MULTIPLE CURSORS

Mac: Hold down command and click in multiple places, then type

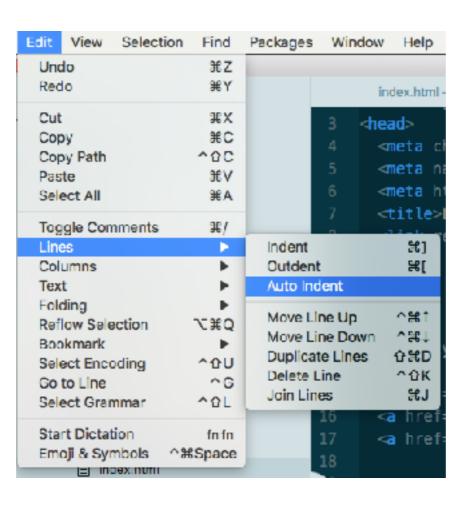
Windows: Hold down control and click in multiple places, then type

SELECT MULTIPLE INSTANCES OF TEXT:

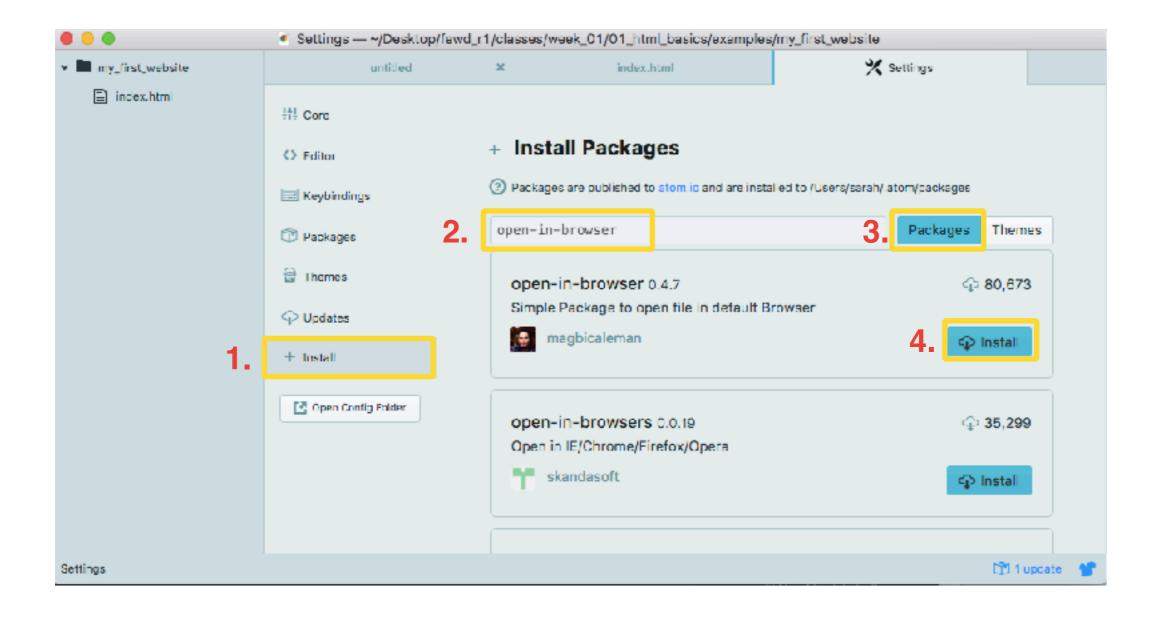
Mac: Make selection then command + d

Windows: Make selection then control + d

SHORTCUTS — FIXING INDENTATION



OPEN-IN-BROWSER PLUGIN



HTML STRUCTURE

Right click in a file with a .html extension and click "Open in Browser"



HTML

LAB — PART 1

HTML

LAB — PART 2

ACTIVITY: PRACTICE WRITING HTML



DIRECTIONS

- 1. Add HTML to structure the text in this <u>CodePen</u>
- 2. Use this image as a guide

BONUS:

1. Google the **hr** element. Look at 2 - 3 sites for examples and see if you can figure out what it does and how you would add it to your pages.

CODING 101: HTML + CSS

CAN'T FIGURE OUT SOMETHING? GOOGLE IT!

When coding, you are going to get lots of errors...

Google first, ask questions later (but don't be afraid to ask).

Be sure to include the language — "HTML" or "CSS" — in your search query.

CODING 101: HTML + CSS

REFERENCE PAGES:

- Mozilla Developer Network
- W3Schools
- CSS Tricks

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HOMEWORK

HTML BASICS

EXIT TICKETS