

# 1) SIGN UP FOR GITHUB 2) GIVE USERNAME TO ERIC 3) HAVE SLACK OPEN

# TODAY! KIMBERLY BAIRD & KATIE ALLYN

"What is the end goal of the class?"

"Is there a special way to organize HTML using tabs/spaces or does it vary by developer?"

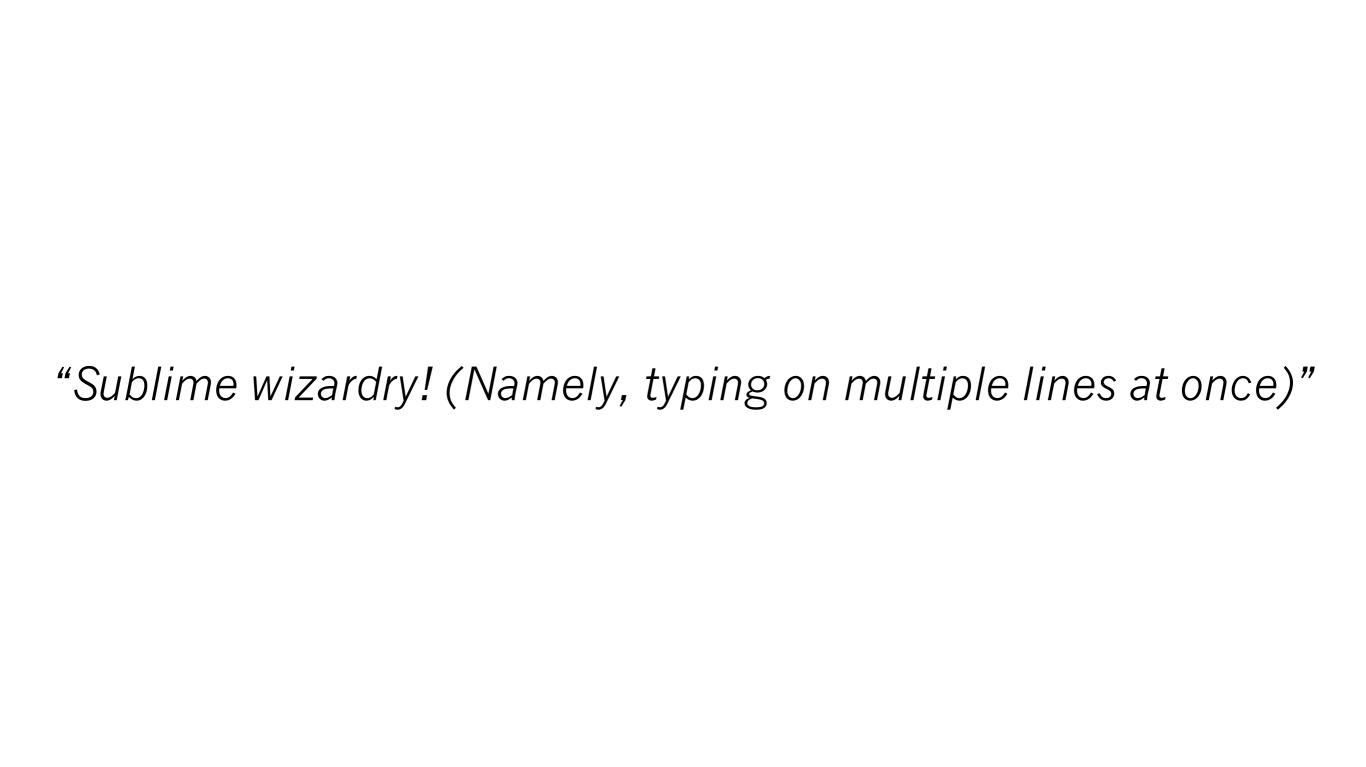
"What are all of the HTML tags?"

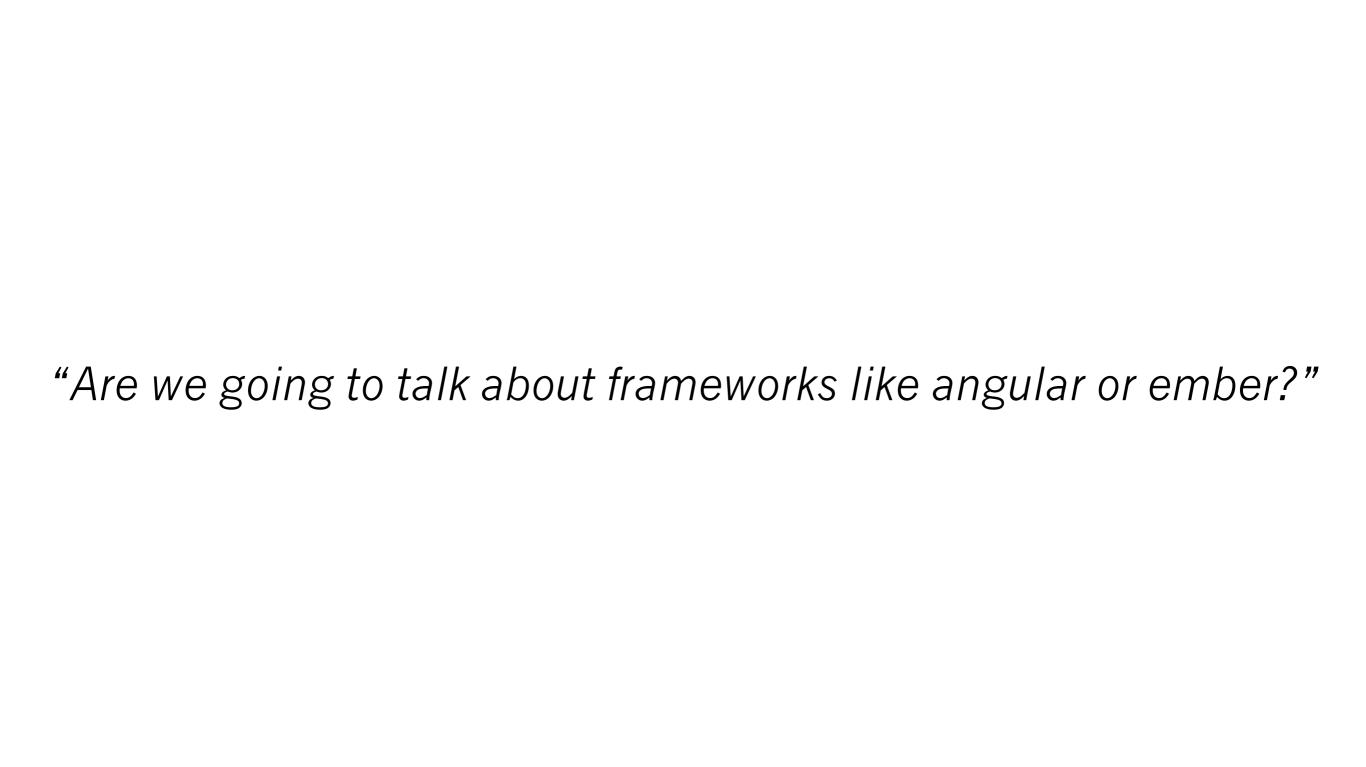
https://developer.mozilla.org/en-US/docs/Web/HTML/Element

"On a link, how do you open the page in a new tab?"

"How do front-end frameworks interact with embedding from back-end frameworks without conflicting?"

"What should I do with Github now?"





"When did the DOCTYPE! become simplified?"

"How do I use the <img> tag?"

"What does the 'design inspiration' activity entail?"

# CSS BASICS

**FEWD** 

# REVIEW

# HTML SYNTAX — TAGS

Opening tag

Closing tag

<tag name>content</tag name>

Element

# HTML SYNTAX — ATTRIBUTES

Attribute Name

Attribute Value

# **ACTIVITY**



### **KEY OBJECTIVE**

Review HTML Tags

### **TIMING**

15 *min* 

- 1. Look at review.png (in starter code folder)
- 2. Add markup to the text in starter\_code >[0] HTML Review Activity > index.html
- 3. Google and implement <nav> <img> and <hr>> tags.

# **NAVIGATION AND HR**

- Used to contain a set of navigational links.
- Used to wrap major navigational blocks

Used to create a horizontal rule, or line, across the page



# **HTML ENTITY CODES**

Use HTML entity codes to add special characters to your HTML.

		!	" "	# #	\$ adollar;	<b>%</b>	& samp; samp;
šapos;	\$lpar;	) årpar;	**  *ast; *midast;	<b>+</b> *plus;	<b>5</b> scomma;	• speriod;	/ / /
scolon;	5 semi;	<pre>slt; sLT;</pre>	sequals;	> sgt; sGT;	?	@	Elsqb; Elbrack;
\	arsqb; arbrack;	AHat;	£lowbar;	` `	<pre>{ slcub; slbrace;</pre>	<pre>Sverbar; Svert; SVerticalLine;</pre>	} arcub; arbrace;



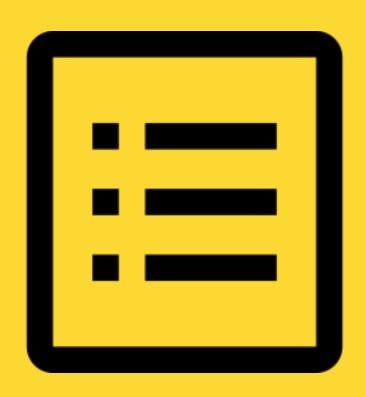
# GRAB AN INDEX CARD AND DRAW YOUR FAMILY TREE ON ONE SIDE

# **HTML BASICS**

# **LEARNING OBJECTIVES**

- Describe the DOM and draw a simple DOM tree.
- Predict image paths and apply relative paths to <img> and <a> tags.
- Differentiate between basic web color principles: RGB, RGBA, hexadecimal color.
- Use CSS to add basic styles to an HTML page.

# **AGENDA**



- More HTML Basics
- Intro to CSS
- Lab

# **FEWD**

# MORE HTML BASICS

# **MORE HTML BASICS**

# HTML STRUCTURE

# WHAT IS THE DOM?

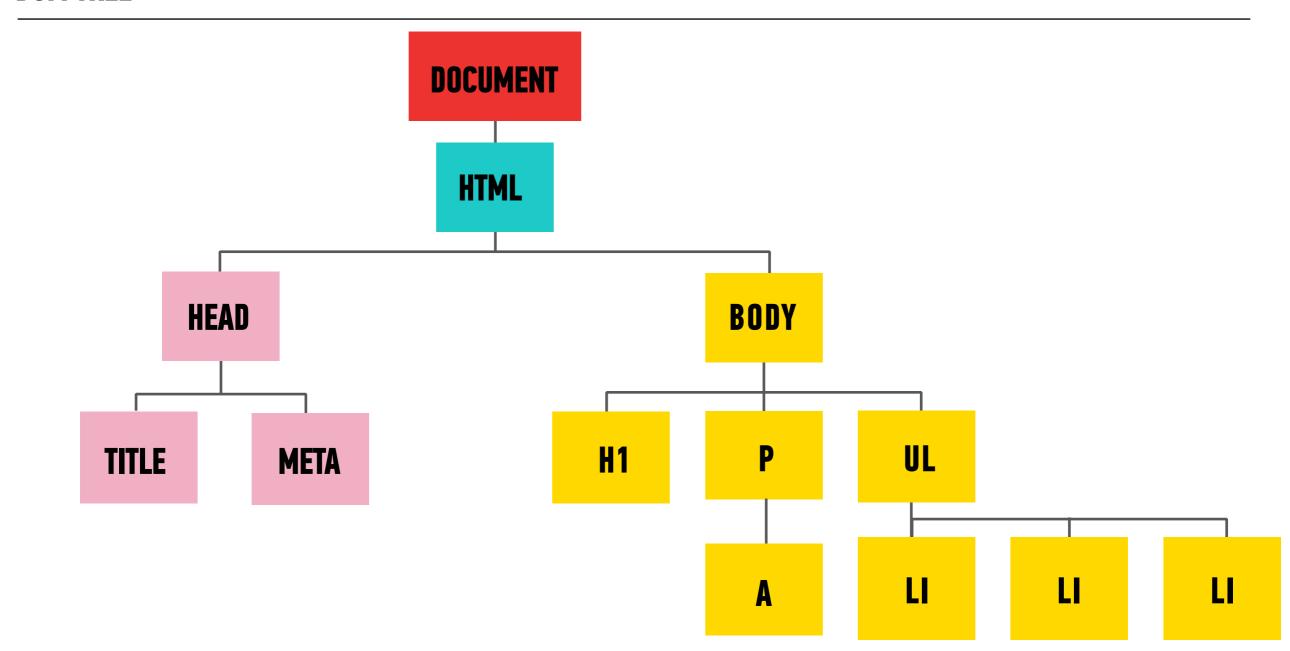




# WHAT IS THE DOM?

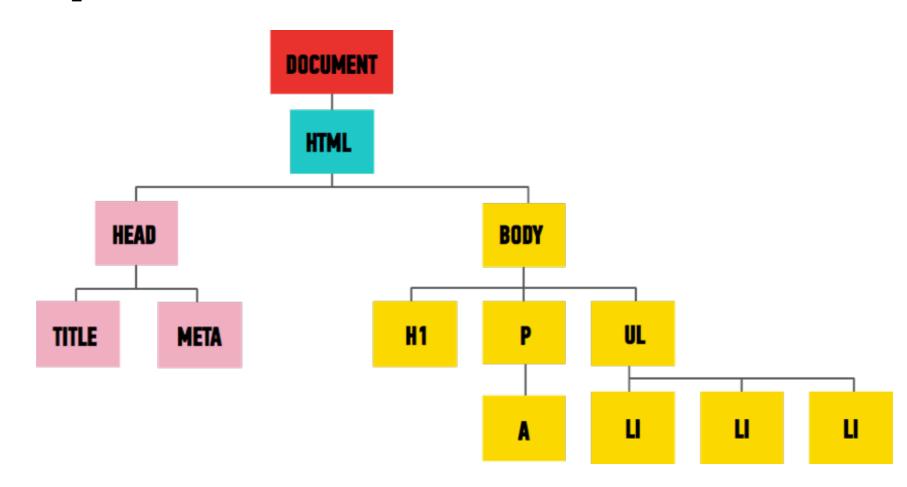


# **DOM TREE**

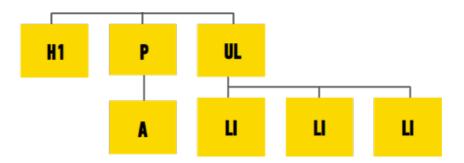


# **DOM TREE**

The Document Object Model (DOM) is the model that describes how all elements in an HTML page, like headers, images, paragraphs etc., are related to the topmost structure: the document itself.



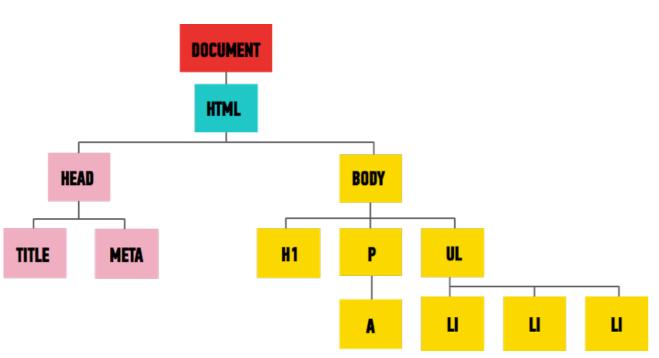
### **DOM TREE**



```
<h1>Site title</h1>
Pacon ipsum dolor amet brisket tail frankfurter cupim pig salami.
Biltong beef ribs ribeye short loin flank corned beef tri-tip beef ball tip sausage jowl swine. Fatback porchetta strip steak doner chicken <a href="http://www.jamieoliver.com/recipes/pork-recipes/pork-belly-roast/">pork belly</a>. Rump picanha jowl ground round, pancetta doner boudin landjaeger prosciutto meatloaf.

Bacon
Chicken
Meatloaf
```

## HTML STRUCTURE



```
index.html
   Index.html
   <!DOCTYPE html>
   <html lang="en">
     <head>
       <meta charset="UTF-8">
       <title>Document</title>
     </head>
     <body>
 8
       <h1>Site title</h1>
       Bacon ipsum dolor amet brisket tail
       frankfurter cupim pig salami. Fatback
       porchetta strip steak doner chicken <a href="
       http://www.jamieoliver.com/recipes/pork-recipes
       /pork-belly-roast/">pork belly</a>
11
       <l
12
         Bacon
13
         Chicken
14
         Meatloaf
15
       16
     </body>
   </html>
```

# **ACTIVITY**



### **KEY OBJECTIVE**

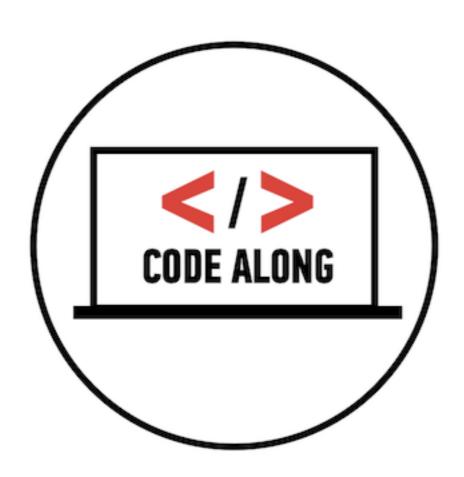
Draw out a simple DOM tree

### **TIMING**

2 min

- 1. Review starter\_code > [1] DOM Tree > index.html
- 2. On the back of your index card, draw out a simple DOM tree for the HTML

# **CODE ALONG**



# **MORE HTML BASICS**

# IMAGES

## **IMAGES - THE IMG ELEMENT**

Images are added to the page with the img element

- ▶ Void element Doesn't need a closing tag
- ▶ Two required attributes src and alt



<img src="images/camera.jpg" alt="Girl holding a camera" />

# **IMAGES**

The **src** attribute tells the browser where it can find an image.



Path to the image file

<img src="images/camera.jpg" alt="Girl holding a camera" />

# **IMAGES**

The alt attribute provides a text description of the image that:

- Replaces the image if it doesn't load
- ▶ Is used by screen readers



Text description

<img src="images/camera.jpg" alt="Girl holding a camera" />

# **LET'S TAKE A CLOSER LOOK**

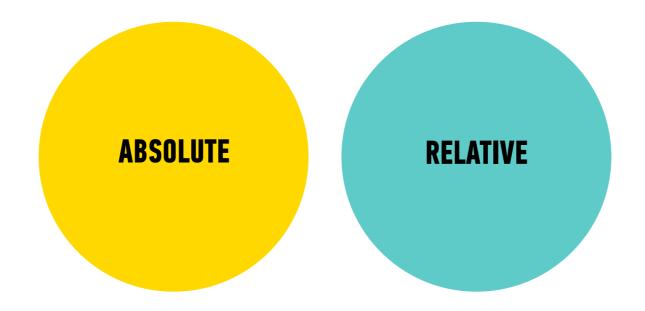


# **MORE HTML BASICS**

# URLS

# **TYPES OF URLS**

▶ There are two main types of URLs:



#### **LINKING TO OTHER SITES - ABSOLUTE URLS**

**ABSOLUTE** 

#### WHEN YOU LINK TO ANOTHER SITE:

- ▶ Value of the href attribute will be the *full web address* for the site
- This is known as the absolute URL.

#### Absolute URL

<a href="http://www.amazon.com">Amazon</a>

<img src="http://saraheholden.com/img/aboutPhoto.jpg" alt="Profile Pic>

#### WHEN YOU LINK TO ANOTHER PAGE OR FILE ON THE SAME SITE:

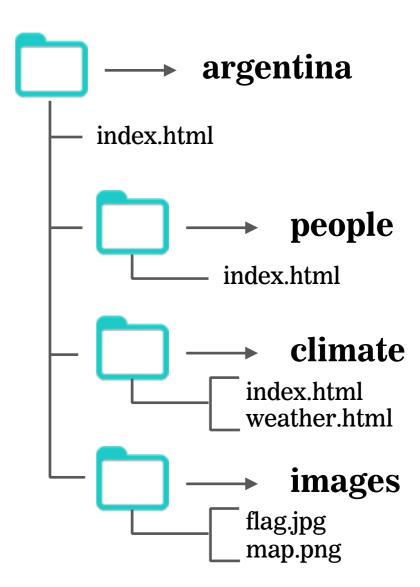
- You don't need to specify a domain name in the URL.
- Use **Relative URL:** indicates where pages are *in relation to the current page*

<a href="about.html">About Page</a>

<img scr="images/logo.png" alt="logo">

#### **DIRECTORY STRUCTURE**

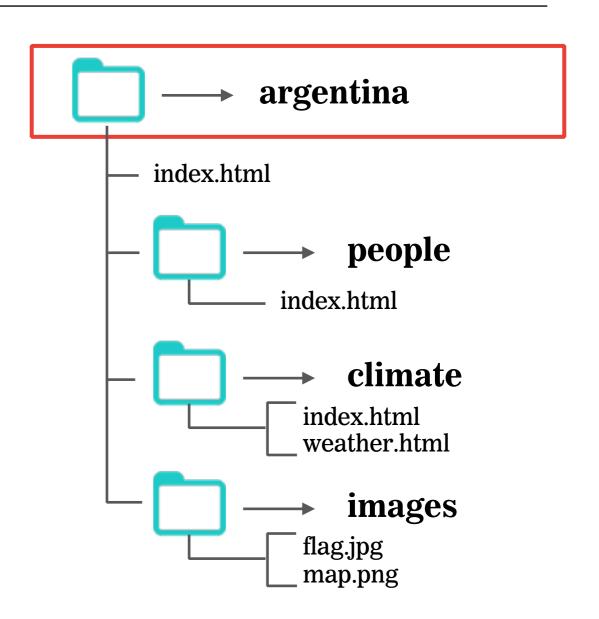
- On larger sites, it's *best practice* to organize code by placing the files for each major section of the site into a new folder
- These folders are often referred to as directories.



## **DIRECTORY STRUCTURE** — ROOT

The topmost folder is called the **root** folder. It contains all other files and folders for a website.



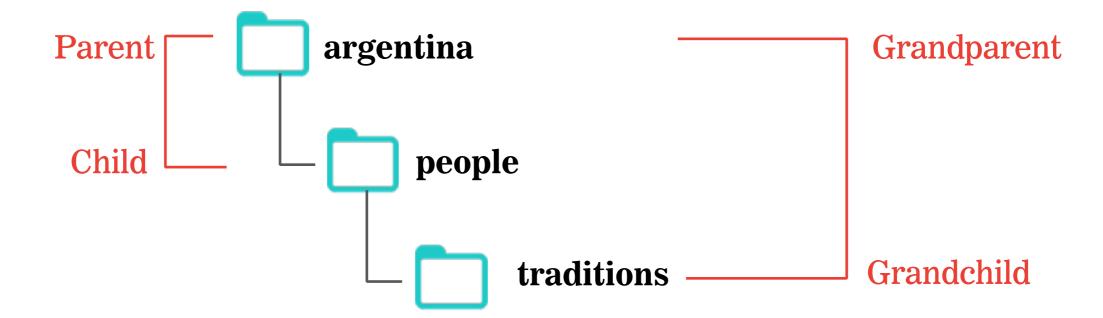


# **LET'S TAKE A CLOSER LOOK**



## **DIRECTORY STRUCTURE**

Relationships between folders can be described using similar language to that of a family tree



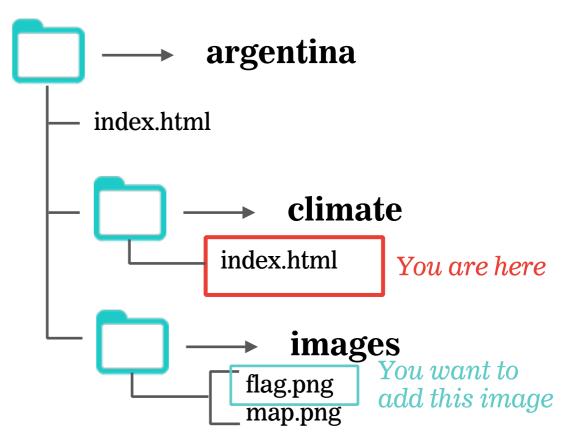
# **RELATIVE URLS**

		DE2CKIPIIUN	EXAMPLE
FOLDER FILE IS IN:	SAME	File name	info.html
	CHILD	Name of child folder + / + file name	people/index.html
	GRANDCHILD	Name of child folder + / + Name of grandchild folder + / + file name	people/culture/index.html
	PARENT	/ + path	/index.html
	GRANDPARENT	// + path	//index.html

Note that ../ means to go up one directory, and can be used repeatedly: ../../ would go up two directories.

### **RELATIVE URLS**

- 1. First we use ../ to go back to the parent directory
- 2. Then we add the path to the image



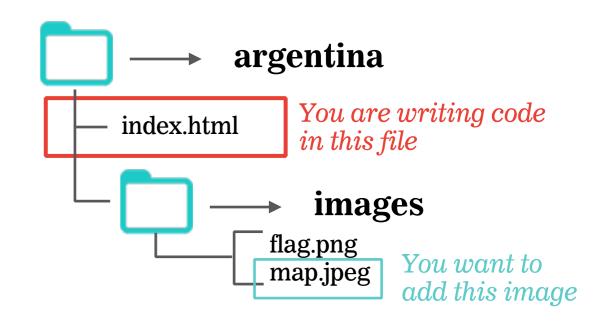
img src="../images/flag.png" alt="Flag">



#### **KEY OBJECTIVE**

Practice writing absolute and relative paths

- We want to add the image map.jpeg to our homepage (index.html)
- Write out the image tag (include src and alt attributes)



Answer: <img src="images/map.jpeg" alt="Map">

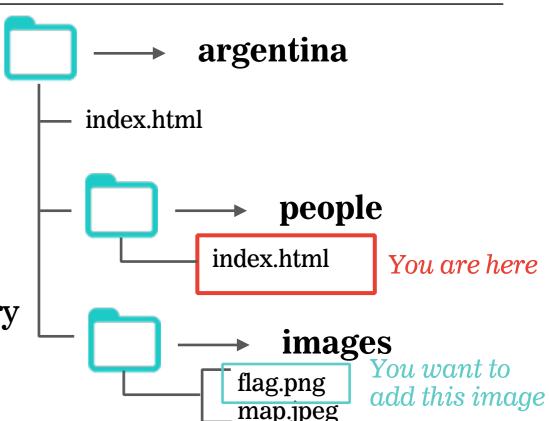
	DESCRIPTION	PATH
CHILD	Name of child folder + / + file name	images/map.jpeg

- We want to add flag.png to the homepage of the "people" section of our site.
- Write out the image tag (include src and alt attributes)

#### HINT:

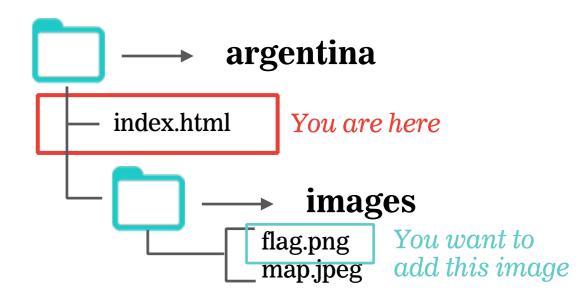
- 1. First we use .../ to go back to the parent directory
- 2. Then we add a path to the image

img src="../images/flag.png" alt="Flag">



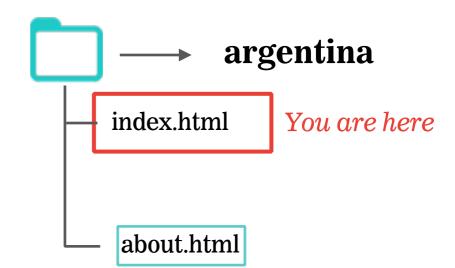
- We want to add the image flag.png to our homepage (index.html)
- Write out the image tag (include src and alt attributes)

<img src="images/flag.png" alt="Flag">



- We want to add a link from our homepage (index.html) to our about page (about.html)
- Write out the anchor tag (including href attribute)

<a href="about.html">About Page</a>



# **HTML BASICS**

# INTRO TO CSS

# **HTML BASICS**

# THE BASICS

#### WHAT IS CSS?

# **Muir Woods**

Keffiyeh next level retro, brunch *sriracha* dreamcatcher mixtape jean shorts XOXO master cleanse keytar **Kickstarter**. Neutra kale chips Vice health goth ethical, flannel single-origin coffee stumptown meditation Kickstarter mumblecore yr cronut master cleanse keytar.

Bushwick sartorial pickled, quinoa church-key before they sold out drinking vinegar put a bird on it readymade organic lumbersexual. Four dollar toast chia *Intelligentsia* YOLO Marfa. Migas raw denim photo booth authentic, roof party shabby chic pop-up flexitarian *skateboard* blog.

# **Muir Woods**

Keffiyeh next level retro, brunch sriracha treamcatcher mixtape jean shorts XOXO master cleanse keytar Kickstarter. Neutra kale chips Vice health goth ethical, flannel single-origin coffee stumptown meditation Kickstarter mumblecore yr cronut master cleanse keytar.

Bushwick sartorial pickled, quinoa church-key before they sold out drinking vinegar put a bird on it readymade organic lumbersexual. Four dollar toast chia *Intelligentsia* YOLO Marfa. Migas raw denim photo booth authentic, roof party shabby chic pop-up flexitarian *skateboard* blog.

## WHAT IS CSS?

- CSS is what handles the presentation layer of our webpage.
- CSS allows us to associate style rules with HTML elements.





plain ol' HTML

HTML + CSS

# **CSS SYNTAX**

Selector

h1{ color: yellow; }

Declaration

# **CSS SYNTAX**

```
h1, h2 {
        color: yellow;
        font-size: 16px;
           Property
                      Value
```

# USING INTERNAL CSS — :(

You can include CSS rules by placing them inside a <style> element, which usually sits inside the <head>.

# **USING EXTERNAL CSS** — :)

- Use the link> element to tell the browser where to find the CSS file that should be used to style the page.
- This should live inside the <head> of the document.

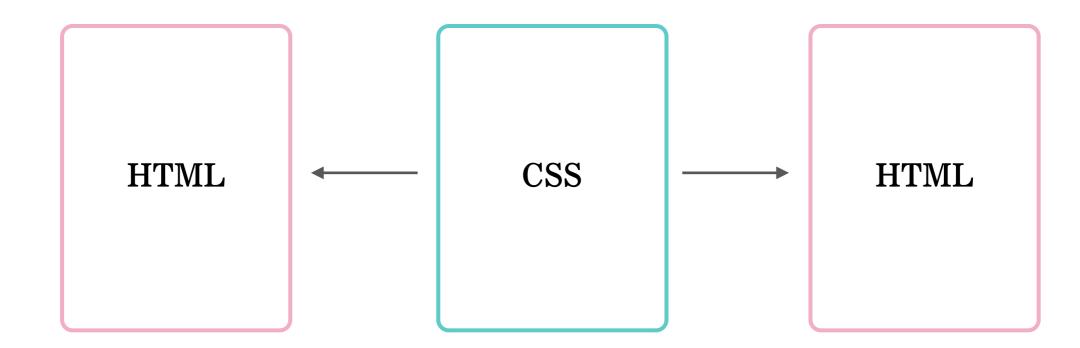
```
<head>
    <meta charset="UTF-8">
        <title>Document</title>
        link rel="stylesheet" href="css/style.css">
        </head>
```

- ▶ The href specifies the path to the CSS file.
- The **rel** attribute specifies the relationship between the HTML page and the file it is linked to.

#### **INTERNAL VS. EXTERNAL CSS**

#### **BENEFITS OF USING AN EXTERNAL STYLESHEET:**

- Multiple pages can use same stylesheet (Don't repeat yourself!)
- Only have to make changes in one file
- Keep content separate from presentation



# **INTRO TO CSS**

# COLOR

#### **COLOR**

# **TEXT COLOR:**

#### **Muir Woods**

Keffiyeh next level retro, brunch *sriracha* dreamcatcher mixtape jean shorts XOXO master cleanse keytar **Kickstarter**. Neutra kale chips Vice health goth ethical, flannel single-origin coffee stumptown meditation Kickstarter mumblecore yr cronut master cleanse keytar.

```
h1 {
   color: blue;
}

p {
   color: red;
}
```

# **BACKGROUND COLOR:**

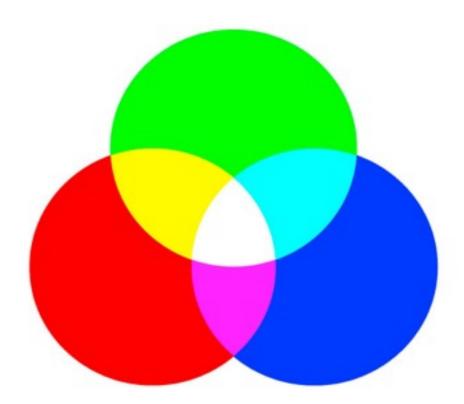
#### **Muir Woods**

Keffiyeh next level retro, brunch *sriracha* dreamcatcher mixtape jean shorts XOXO master cleanse keytar **Kickstarter**. Neutra kale chips Vice health goth ethical, flannel single-origin coffee stumptown meditation Kickstarter mumblecore yr cronut master cleanse keytar.

```
body {
  background-color: blue;
}
```

## **COLOR**

- Every color on a computer screen is created by mixing amounts of red, green, and blue
- To find the color you want, you can use a color picker
- Mac: Sip (free)
- ▶ Windows: Just Color Pic (free)
- Photoshop



## **COLOR**

# **RGB VALUES**

▶ Values for red, green and blue are expressed as numbers between 0 and 255

```
rgb(72, 209, 204)
```

# **HEX CODES**

Represent values for red, green and blue in hexadecimal (base 16) code

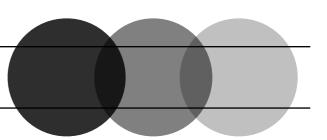
```
#48D1CC
```

# **COLOR NAMES**

Colors are represented by predefined names. They are not used very much but are helpful for basic colors such as black and white. Full list of color names

MediumTurquoise

## **OPACITY**



# **RGBA**

- ▶ RGBA works the same as RGB, except that it takes a 4th value called 'alpha'.
- This is a value between 0 and 1 which can be used to determine a color's opacity on the page.



# **LET'S TAKE A CLOSER LOOK**





#### **KEY OBJECTIVE**

▶ Use CSS to add basic styles to an HTML page.

#### **TIMING**

3 min

- 1. Open starter\_code > [2] CSS Practice > index.html
- 2. (together) Add a link to the style.css file
- 3. Follow the instructions under Part 1

# **INTRO TO CSS**

# TYPE

## **TYPEFACE TERMINOLOGY**

**TEXT-ALIGN** 

left

center right

justify

**TEXT-TRANSFORM** 

**UPPERCASE** 

lowercase

Capitalize

**TEXT-DECORATION** 

none underline LINE-HEIGHT

**20px** 

**FONT-WEIGHT** 

Normal **Bold** 

**FONT-STYLE** 

Regular *Italic* 

FONT-FAMILY

sans-serif serif FONT-SIZE

12px

26px

# **FONT-FAMILY**

# serif

- Georgia
- Times
- Times New Roman

# sans-serif

- Arial
- Verdana
- Helvetica

#### **ACTIVITY**



#### **KEY OBJECTIVE**

▶ Use CSS to add basic styles to an HTML page.

#### **TIMING**

3 min

- 1. Refer back to starter\_code > [2] CSS Practice > index.html
- 2. Follow the instructions under Part 2

#### **HTML BASICS**

# CASCADING STYLE SHEETS

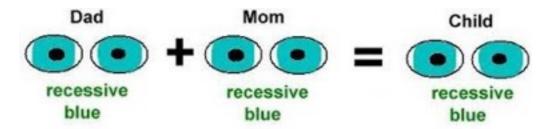
#### **HOW CSS RULES CASCADE**

- Cascading Style Sheets
- Cascade: CSS rules are able to override one another and cancel each other out, depending on their order. In other words, the rules are able to cascade downward until they are canceled out by another rule.

#### **LAST RULE**

▶ If the two selectors are identical, the latter will take precedence

#### **INHERITANCE**



- Inheritance in CSS is how certain properties are passed on from a parent element down to its children
- If you specify the font-family or color properties on the <body> element, they will apply child elements. This is because the font-family property is **inherited** by child elements.
- Not all properties are inherited. For example, it wouldn't make sense for the border to be inherited since it's unlikely that a child element should need the same border as its parent.
- You can force a lot of properties to inherit values from their parent elements by using 'inherit' for the value of the properties.

#### **ACTIVITY**



#### **KEY OBJECTIVE**

 Practice using CSS by styling Wendy Bite's Resume page

#### **TIMING**

**Until** 8:45

- 1. Review supplied .pngs starting with Lab...
- 2. (together) project set up
- 3. Style Wendy's About Me and Resume pages

#### **HTML BASICS**

## **LEARNING OBJECTIVES**

- Describe the DOM and draw simple DOM tree.
- Predict image paths and apply relative paths to <img> and <a> tags.
- Differentiate between basic web color principles: RGB, RGBA, hexadecimal color.
- Use CSS to add basic styles to an HTML page.

#### **CSS BASICS**

# HOMEWORK

#### **HOMEWORK**

- Continue working through the lab we started on today
- Make your own version the "About me" page!

#### **HIGHLY RECOMMENDED COURSE MATERIALS:**

Jon Duckett - Web Design with HTML, CSS, JavaScript and jQuery Set



#### **HOMEWORK**

## FEEDBACK GROUPS

#### **FEEDBACK GROUPS**

#### IF YOU ARE STUCK...

- 1) Use the "Chrome Inspector" to look at your code
- 2) Ask your question in the Slack channel and see if any fellow students might know the answer
- 3) Ask Eric & Adriana

\* When using your fellow students and instructors, pushing your code to Github is a great place to share where all of your code is currently at.

#### **FEEDBACK GROUPS**

## **GROUP 1 (ERIC)**

Kimberly Baird

Tom Bunting

Michael Fischer

Jim Howes

Jon Iler

Peyton Lee

Blanca Leon-Carter

Anna Matras

**Christopher Zalek** 

## **GROUP 2 (ADRIANA)**

Corin Menuge

Colin Quirk

Allison Schaffer

Kevin Sella

Michael Sena

Micholas Skeba

Ashley Sullivan

Lisa Vasquez

Katrina Wang

Xi Yue Li

TO: EBOYER@GMAIL.COM

TO: ADRIANA.LCS316@GMAIL.COM

#### FEEDBACK GROUPS

### DUE 11:59PM, SUNDAY FEB 29TH

- Continue working through the lab we started on today
- Make your own version the "About me" page!
- \* Familiarize yourself with the Github resources. Try to turn homework in and share code with the class using it.

\*Feedback given between Monday AM - Tuesday PM

**SNACKS & DESIGN** 

# THURSDAY FEB 25TH CORIN MENUGE & PEYTON LEE

(GOOGLE SHEET IS PINNED IN SLACK)

#### **CSS BASICS**

# EXIT TICKETS