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## SETUP INSTRUCTIONS

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# WELCOME TO FEWD!

- › Please write your name on your whiteboard and say hello to your new classmates!
- › Wifi network: GA-GUEST      Password: yellowpencil
- › Visit the dashboard and keep it open: <https://github.com/ga-students/FEWD-SF-62>
- › Download [Atom](#) text editor
- › Download [Chrome](#)
- › Create a free CodePen account so you can save exercises we'll be working on in class
- › Optional: Visit Chrome's settings and make it your default browser



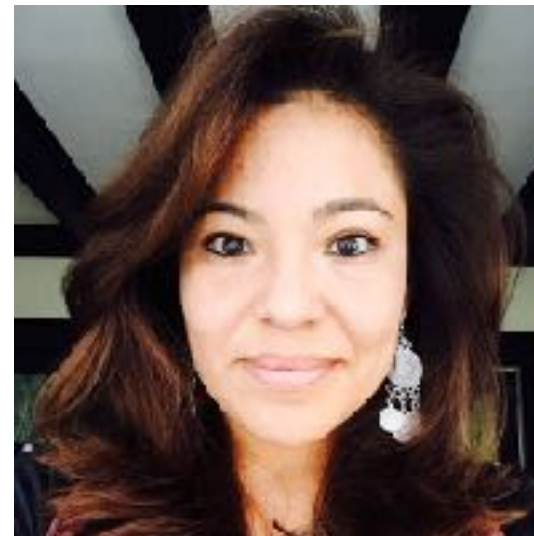
# YOUR INSTRUCTIONAL TEAM

# INTRODUCTIONS

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**SARAH HOLDEN**



**GABY ZAMUDIO**

---

# Student Services at [studentservicesSF@ga.co](mailto:studentservicesSF@ga.co)



**MATT JONES**

Education Program Producer

## Course logistics

- Access to tools
- Feedback about the course
- Enrollment questions and finances
- Graduation certificates

## Campus questions

- GA facilities
  - GA events outside of Class
  - Discounts for other GA classes
-





# MEET YOUR CLASSMATES

# **INTRODUCTIONS**

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- 1. Name**
- 2. What do you do?**
- 3. Why are you taking this class?**
- 4. Fun fact!**

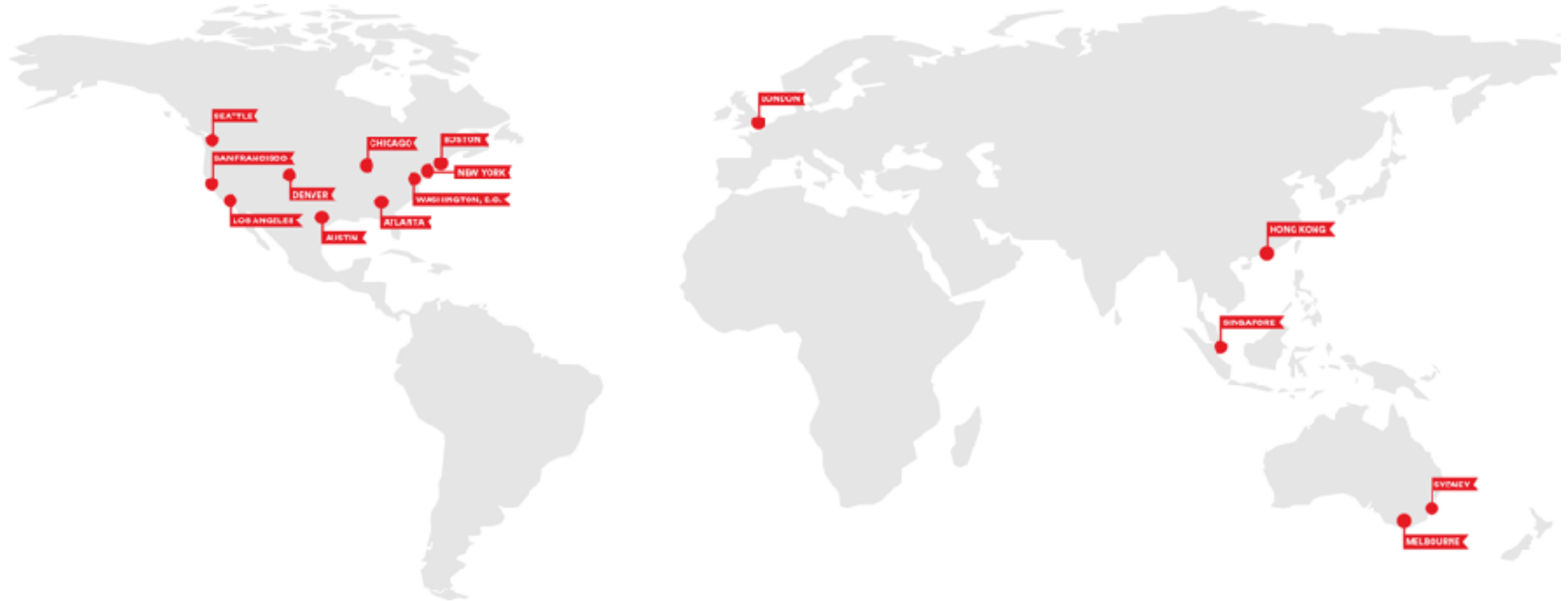


A photograph of two students, a man and a woman, sitting at a wooden table in a classroom. The man, on the left, is wearing a dark puffer jacket over a plaid shirt and is holding a tablet. The woman, on the right, has curly hair and is wearing a red top with white polka dots. They are both smiling and looking at a laptop screen. In the background, there is a chalkboard with some faint writing. The text "THE STUDENT EXPERIENCE" is overlaid in large white letters across the center of the image.

# THE STUDENT EXPERIENCE

---

# 15+ campuses around the world





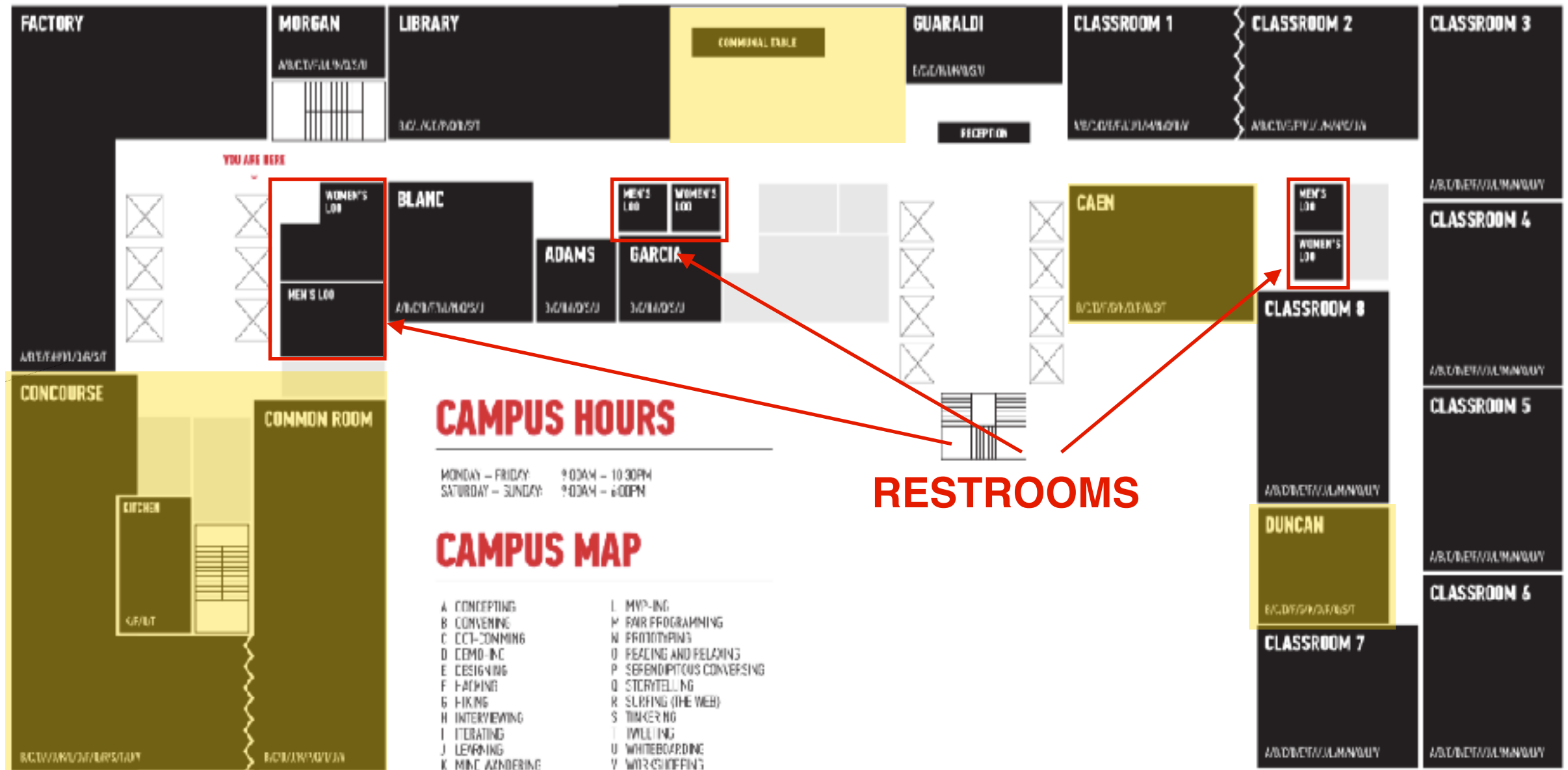


Come work on campus.

We're open:

8am - 10pm, Monday to Friday

10am - 6pm, Saturday and Sunday



**RESTROOMS**

**PUBLIC USE SPACES**

Have a question about:

- the campus?
- lost and found?
- loaner equipment?
- free coffee and snacks?

Come here to talk to  
Front Lines and they will  
help you out.







# COURSE EXPECTATIONS



---

# Classroom culture



## Let's all agree to:

- Treat each other with respect
- Avoid bringing distractions into class
- Participate in class

---

# How to get a certificate of completion



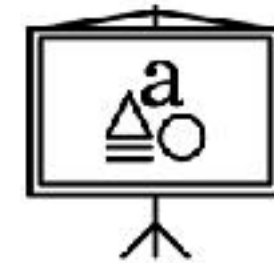
Complete 80% of the homework

1

2



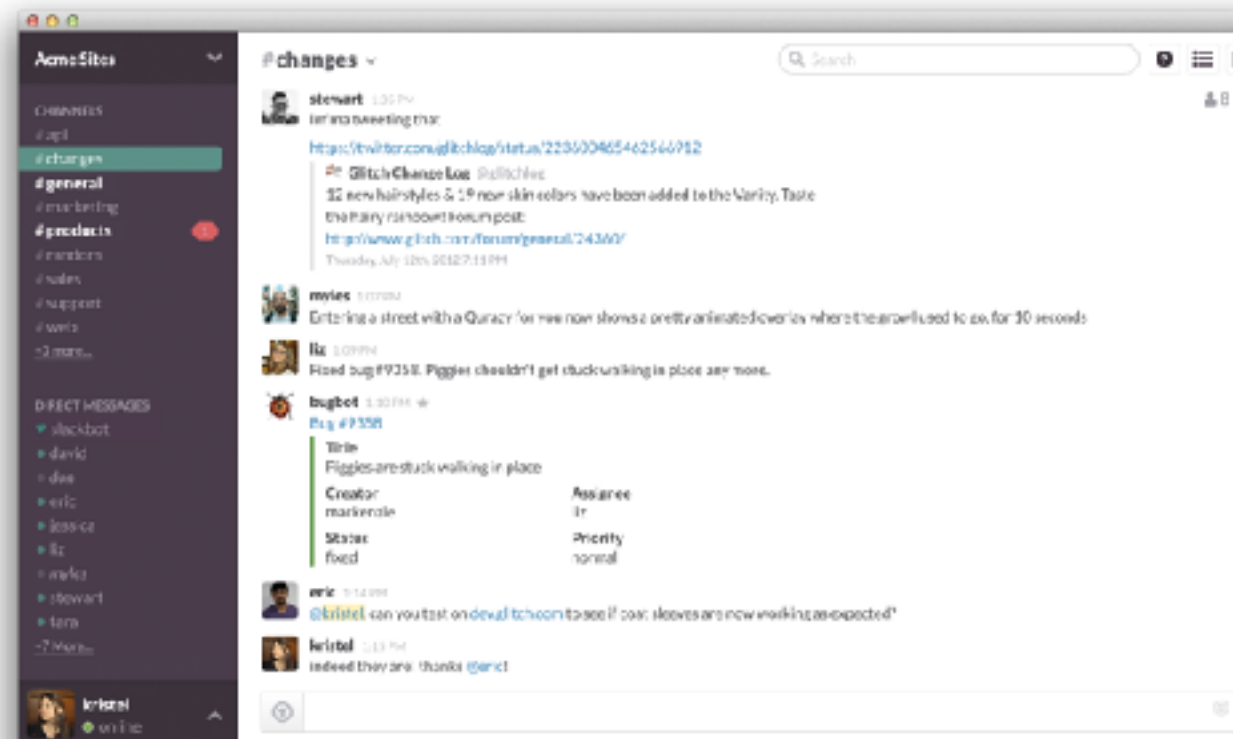
Don't miss more than 3 classes



Complete and present a final project

3

# Slack



All course communication with each other and your instructor will happen here.

---

# Help Us Help You!

## Send Melody a Slack message if:

- You know in advance that you will be missing a class or multiple classes
  - You're sick, overloaded at work, or something comes up and you can't make it to class last minute
  - You will be 10 or more minutes late to class
  - You need to leave early
  - You will be submitting your homework late
  - You are having trouble completing your homework and need some assistance
  - You're struggling with the material and need some extra help
  - You've finished the homework assignment and would like some bonus tasks
-



---

# Important Class Info

- Office hours: 6pm Mondays and Wednesdays
- Class meets 6:30 - 9:30 Mondays and Wednesdays from January 17th - March 26th
- Sign up for the snack calendar

---

# WEEKLY OVERVIEW

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## WEEK 1

HTML Basics

## WEEK 2

CSS Basics / CSS Selectors

## WEEK 3

Layout / Layout Lab & Wireframing

# HTML BASICS

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## HTML BASICS

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# 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.



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# AGENDA

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Front-End vs. Back-End

Intro to Front-End Development

Intro to HTML

Lab Time

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**FEWD**

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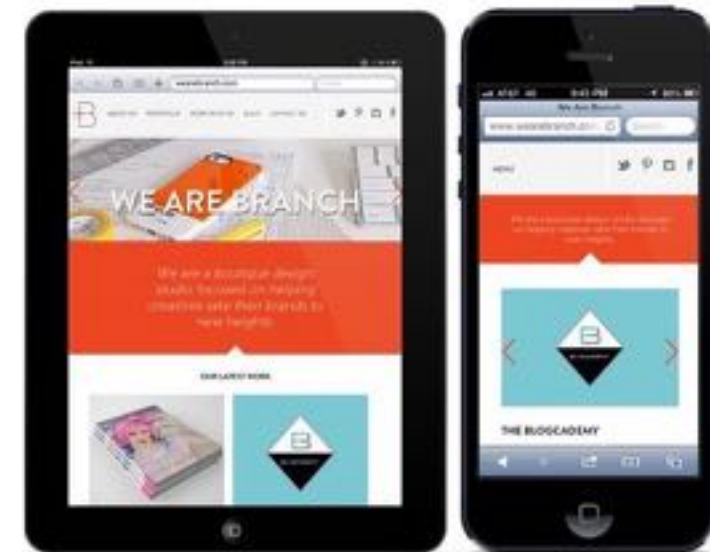
# FRONT END VS. BACK END

---

# 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

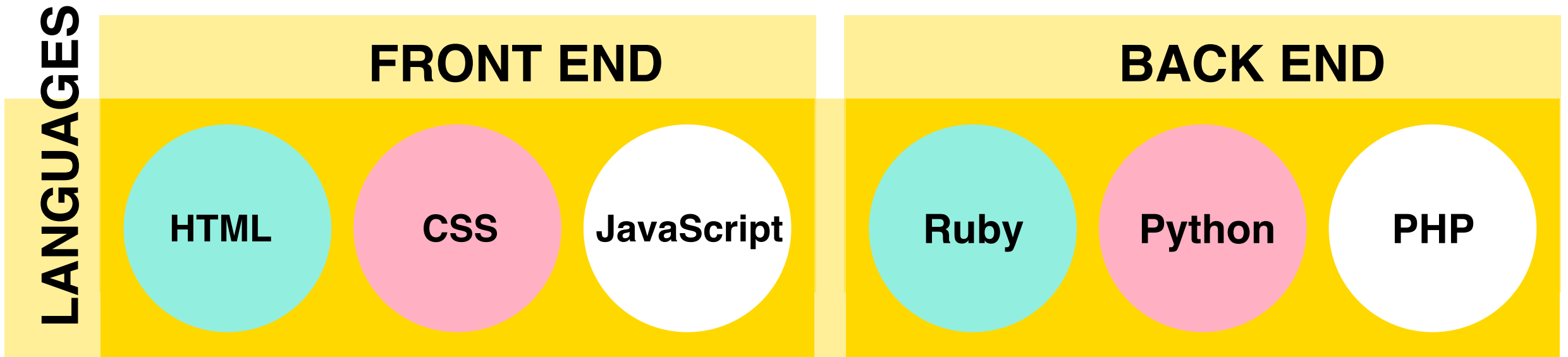




---

# FRONT END VS. BACK END

---



...and many, many more

# ACTIVITY

---



## EXERCISE

### **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!

---

**FEWD**

---

# INTRO TO FRONT- END WEB DEVELOPMENT

---

**FEWD**

---

# WHAT IS A WEBSITE?

---

# CLIENT AND SERVER

---

## BROWSER

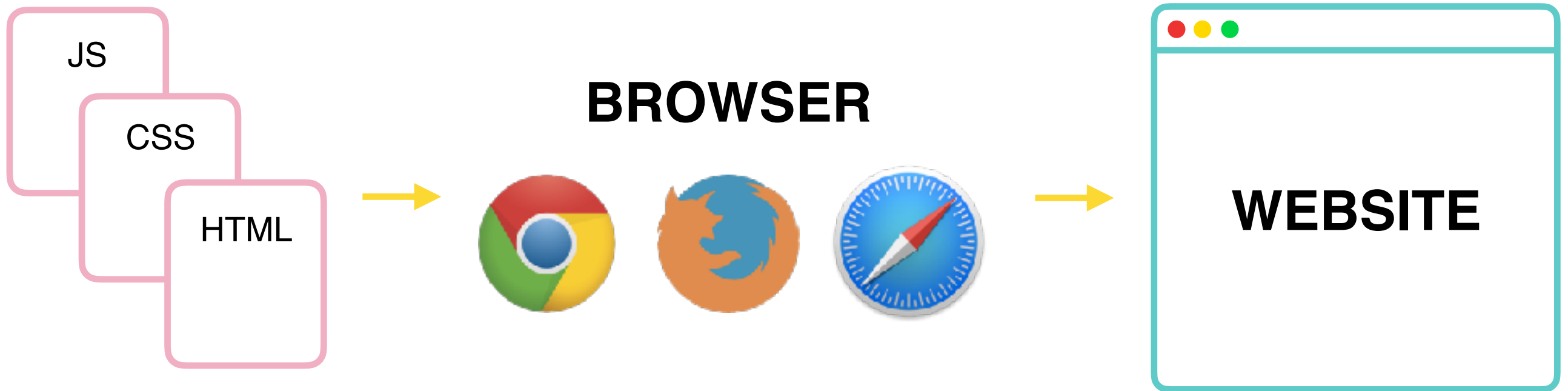
(Chrome, Firefox, Safari, etc.)



---

# CLIENT AND SERVER

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



---

**FEWD**

---

# HTML, CSS & JAVASCRIPT

---

**FRONT END IS MADE UP OF...**

---

**HTML**

**CSS**

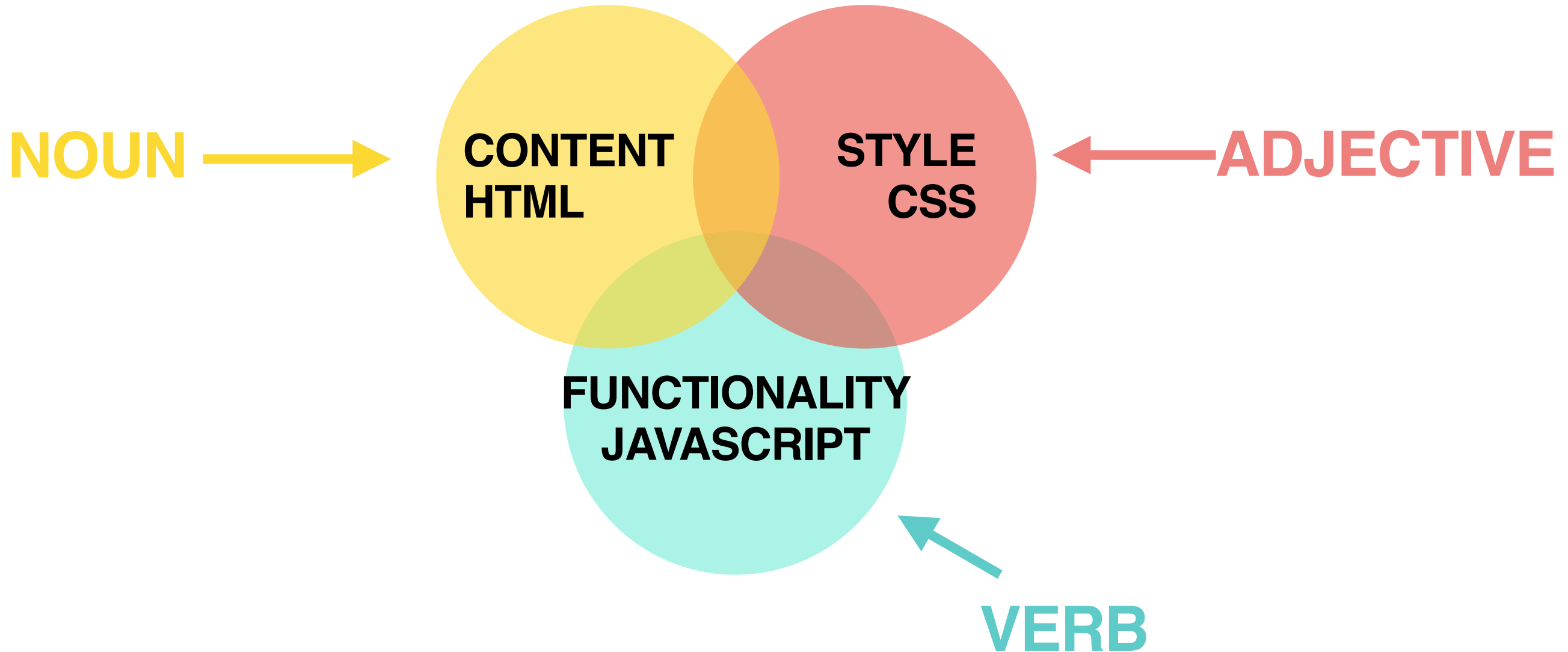
**JavaScript**



---

# THE THREE AMIGOS: STRUCTURE, STYLE, BEHAVIOR

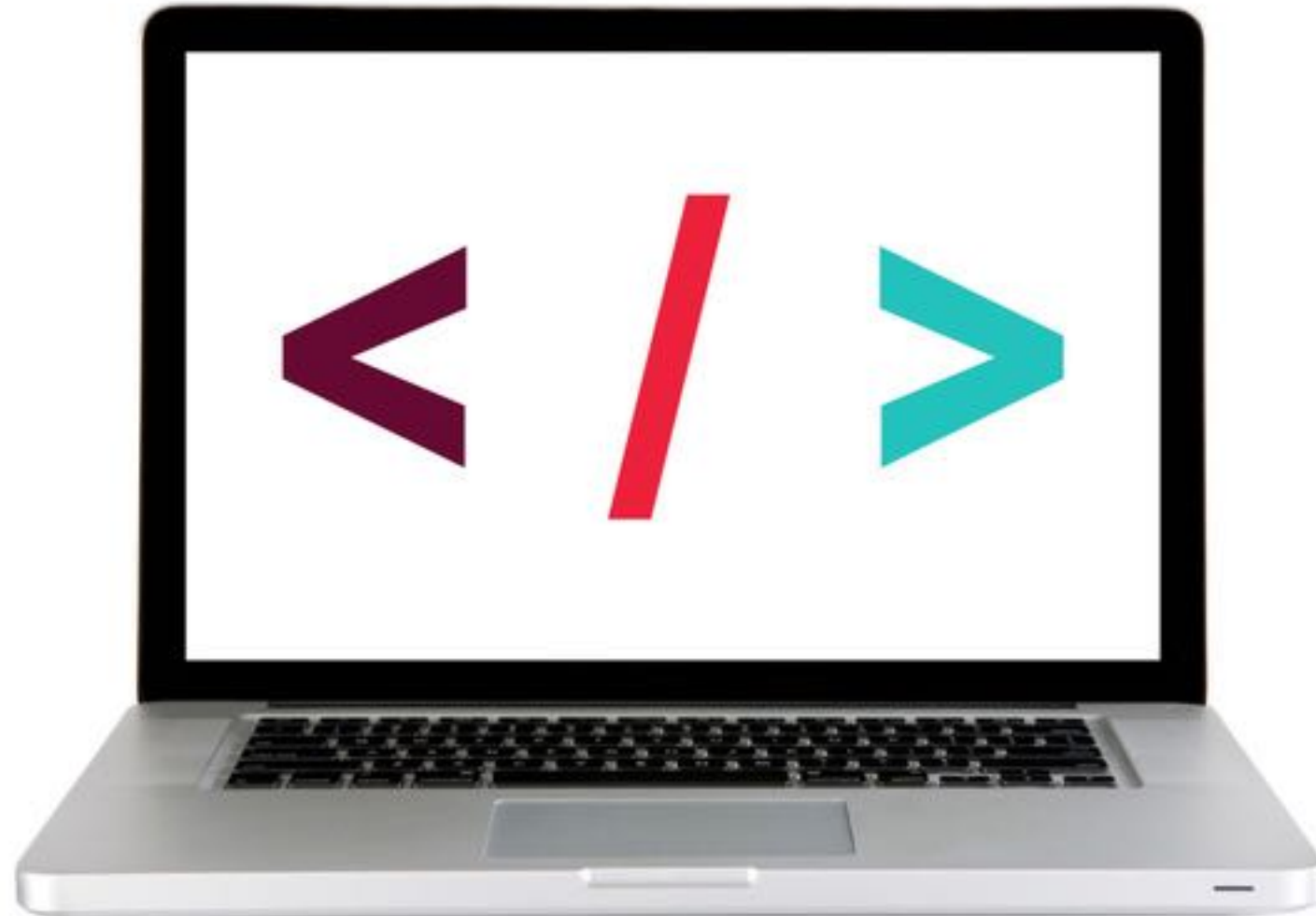
---



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## LET'S TAKE A CLOSER LOOK

---



---

# ACTIVITY: DISTINGUISH BETWEEN HTML, CSS, AND JS

---



## EXERCISE

### DIRECTIONS

1. Visit [lyft.com](https://www.lyft.com).
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

---

# WHAT IS HTML?



# WHAT IS HTML?

SECTIONS

SEARCH

U.S. INTERNATIONAL

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The New York Times

Monday, January 5, 2016 Today's Paper in Video 30°F Down - 8.80% |

World U.S. Politics New York Business Opinion Technology Science Health Sports Arts Style Food Home Travel Magazine Real Estate

## New York City Police Sharply Cut Arrests for a Second Week

By J. DAVID GOODMAN and AL HANCOCK 10:17 a.m. EST

Police officers arrested less than half as many people and wrote more than 40 percent fewer summonses than in the same period a year ago, building on a drastic drop in activity that began shortly after the murder of two uniformed patrol officers.

108 Comments

## Republicans Say They'll Act Fast to Push Their Agenda

By DAVID H. KENNEDY

Eager to show that it can govern well, the Republican Party that takes control of Congress beginning Tuesday is likely to begin by trying to quickly advance energy and health care legislation.

440 Comments



Photo: R. Conrad/The New York Times

## Bess Myerson, a Beauty Queen Who Reigned in Politics, Dies

Ms. Myerson, the first Jewish Miss America, was one of a select group of American figures to parlay pop culture celebrity into positions of public influence. She was 90.

By KIM DERRY and WILLIAM McDONALD

## Afghan Cares for the Living by Carrying the Dead

By COURTNEY M. FRIEDMAN

Malik Abdul Hakim, who has lost two sons, is rewarded for collecting and returning the bodies of both Taliban and government casualties.

## Home Schooling: More Pupils, Less Regulation

### The Opinion Pages

#### When Skepticism Counts

Novelist David Baldacci and others on the role of conspiracy theories in society.

Editorial: Race and Voting Rights in Ferguson

OP-ED COLUMNISTS

- Blow: Privilege of 'Arrest Without Incident'
- Krugman: Presidents and the Economy

#### The Central Crisis in New York Education

By THIS EDITORIAL BOARD

New York, which regards itself as a bastion of liberalism, has the most racially and economically segregated schools in the nation.

Editorial: Shifting Politics on the Death Penalty

Op-Ed: Loving the Fight Against Tuberculosis

### Watching

**11A** A judge in Wisconsin ordered a trial for Dustin Diamond, best known as Scorch from "Saved by the Bell," on charges stemming from a bar fight on Christmas night.

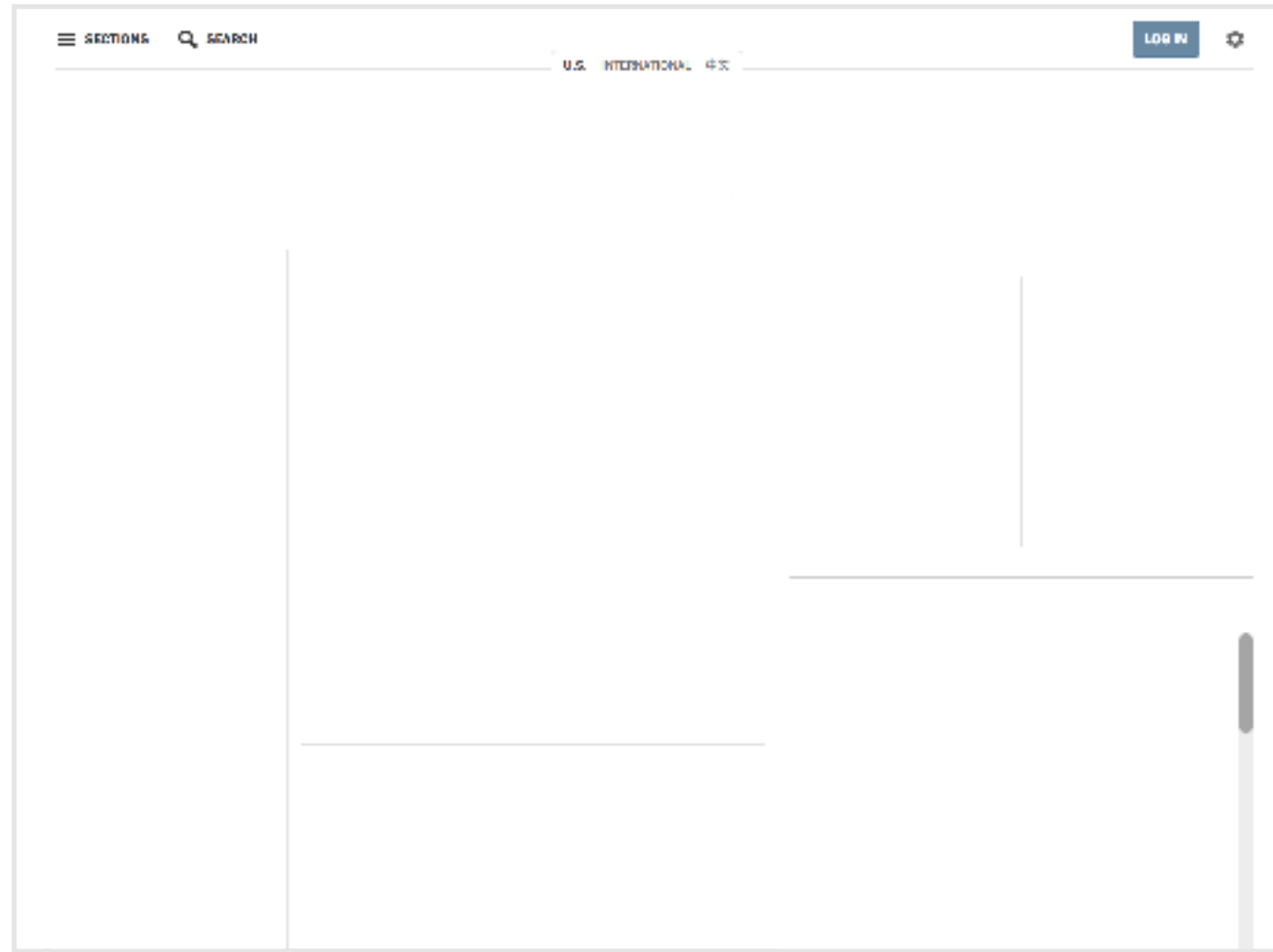
11A

12M Markets tumbled in Europe and the U.S. as the declining price of oil sent ripples around the world.

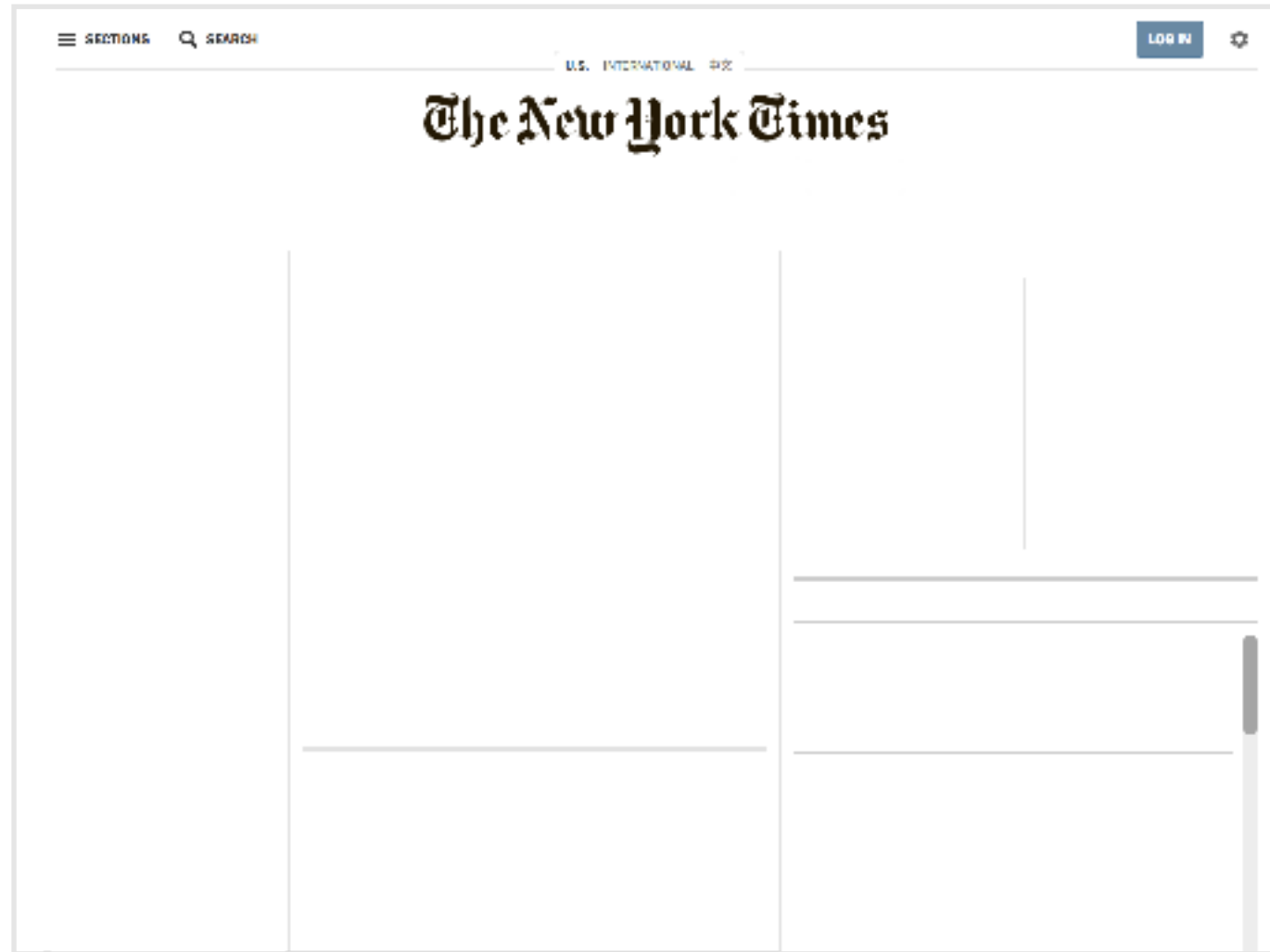
12M

25M Gov. Jerry Brown, already California's longest-serving governor, will be sworn in Monday for his fourth term. He has said he plans to shore up the state's fiscal turnaround.

# WHAT IS HTML?



# WHAT IS HTML?



# WHAT IS HTML?



# WHAT IS HTML?

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# The New York Times

Monday, January 5, 2015 | [Today's Paper](#) | [Video](#) |  36°F | [Dow -1.80%](#)

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Police officers arrested less than half as many people and wrote more than 90 percent fewer summonses than in the same period a year ago, building on a drastic drop in activity that began shortly after the murder of two uniformed patrol officers.

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830 Comments

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By ENID NEMY and WILLIAM McDONALD

## Afghan Cares for the Living by Carrying the Dead

By AZAM AHMED 12:07 PM ET

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[Milwaukee Journal Sentinel](#)

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[The New York Times](#)

**25m** **Gov. Jerry Brown**, already California's longest-serving governor, will be sworn in Monday for his fourth term. He has said he aims to shore up the state's fiscal turnaround.

[The Los Angeles Times](#)

# WHAT IS HTML?

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Monday, January 5, 2016Today's Paperin VideoNYTNow+8:00PM

WorldU.S. PoliticsNew YorkBusinessOpinionTechnologyScienceHealthSportsArtsStyleReal EstateTravelMagazineReal Estate

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108 Comments

## Republicans Say They'll Act Fast to Push Their Agenda

By CHAD HUIZIG

Bager to show that it can govern well, the Republican Party that takes control of Congress beginning Tuesday is likely to begin by trying to quickly advance energy and health care legislation.

440 Comments



For R. Carroll/The New York Times

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By EDWARD WYLLIE and WILLIAM McDONALD

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By GUYAN ARIEFF 10:45 PM ET

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The New York Times

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The Los Angeles Times

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**HTML BASICS**

---

# STRUCTURAL MARKUP

---

# HOW DO I WRITE HTML?

---

OPENING TAG

CLOSING TAG

<tagName>content</tagName>

ELEMENT

---

## STRUCTURAL TAGS — HEADINGS & PARAGRAPHS

---

ELEMENT	DESCRIPTION	EXAMPLE
h1	Main headings	<code>&lt;h1&gt;The Explorer&lt;/h1&gt;</code>
h2 - h6	Subheadings	<code>&lt;h2&gt;Articles&lt;/h2&gt;</code>
p	Paragraph of text	<code>&lt;p&gt;This is a really cool site.&lt;/p&gt;</code>

# HTML CODE-ALONG

---

Elements can be nested inside other elements.

```
<ul>  
  <li>Monday</li>  
  <li>Tuesday</li>  
  <li>Wednesday</li>  
</ul>
```

---

# STRUCTURAL TAGS — UNORDERED LISTS

---

ELEMENT DESCRIPTION		EXAMPLE
ul	Unordered List	<pre>&lt;ul&gt;   &lt;li&gt;Monday&lt;/li&gt;   &lt;li&gt;Tuesday&lt;/li&gt;   &lt;li&gt;Wednesday&lt;/li&gt; &lt;/ul&gt;</pre>
li	List Item	



# 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.

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

PAGE THE LINK  
TAKES YOU TO

CLICKABLE TEXT

---

# THE IMAGE TAG

---

## LINKING TO AN IMAGE IN MY WEBSITE

```

```

PATH TO IMAGE  
FILE

TEXT  
DESCRIPTION

## 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>
```

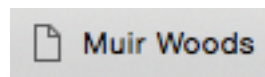
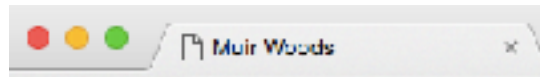
---

# 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>`, `<p>`, 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

---

**ALL THE HTML YOU  
WANT TO BE  
DISPLAYED IN THE  
BROWSER NEEDS TO  
GO IN THE BODY!!!!!!**



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

---

# HTML STRUCTURE

---



---

**MORE HTML BASICS**

---

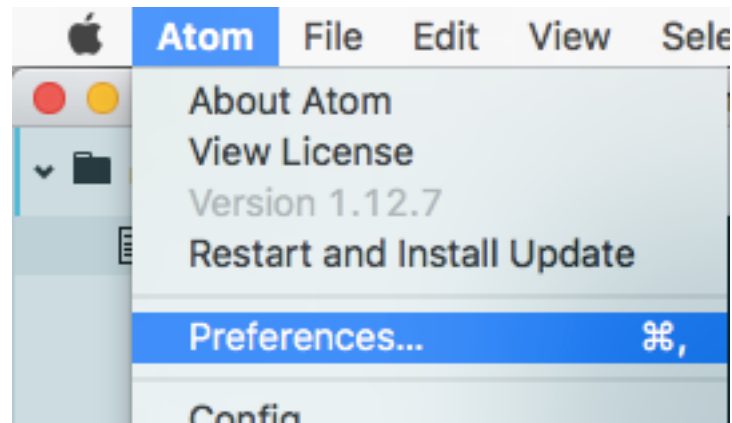
# ATOM CONFIGURATION

---

# PLUGINS

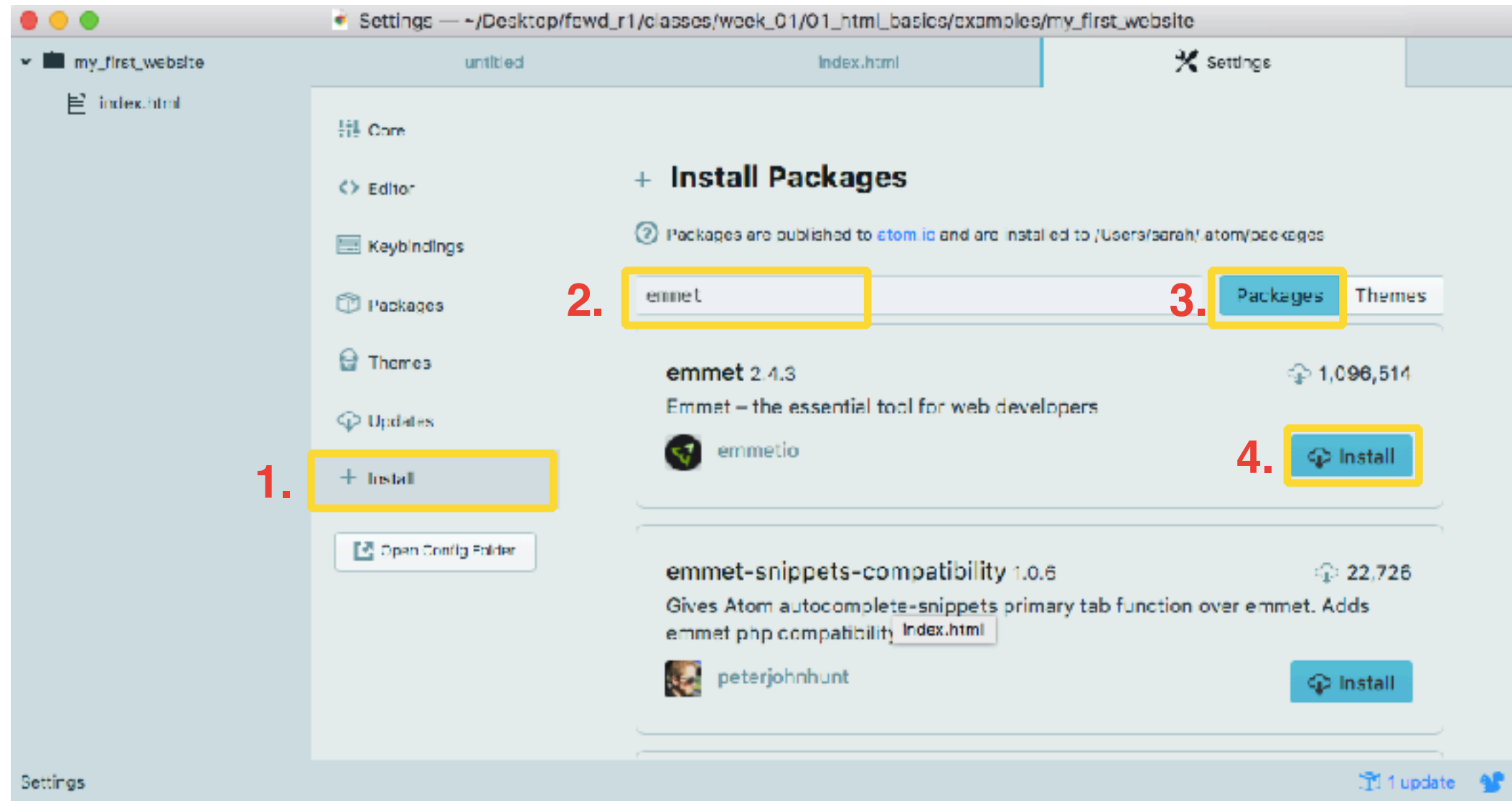
---

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





# EMMET PLUGIN



---

# HTML STRUCTURE

---

! + tab

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<meta http-equiv="X-UA-Compatible" content="ie=edge">
```

```
<title>Document</title>
```

```
</head>
```

```
<body>
```

```
</body>
```

```
</html>
```

---

# SHORTCUTS

---

Tag name + tab

h1 + tab      `<h1></h1>`

h2 + tab      `<h2></h2>`

p + tab      `<p></p>`

a + tab      `<a href="#"></a>`

img + tab      `<img src="" alt="">`

ul + tab      `<ul></ul>`

li + tab      `<li></li>`

---

# SHORTCUTS

---

ul>li\*3 + tab

```
<ul>  
  <li></li>  
  <li></li>  
  <li></li>  
</ul>
```

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

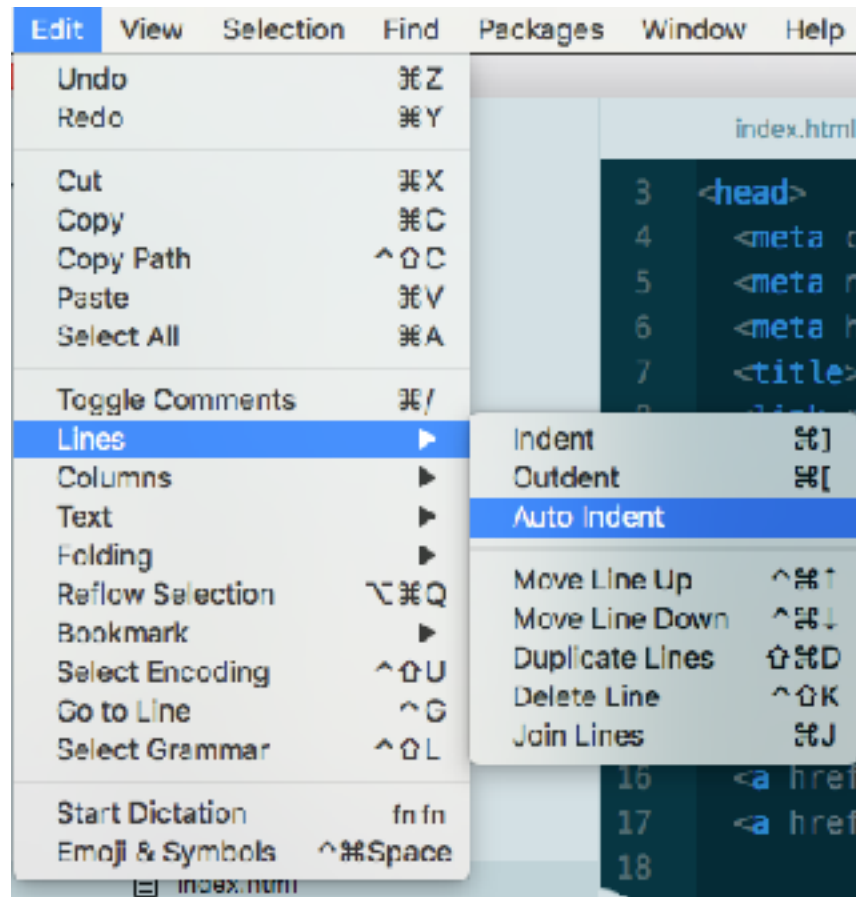
Windows: Hold down control and click in multiple places, then type

### SELECT MULTIPLE INSTANCES OF TEXT:

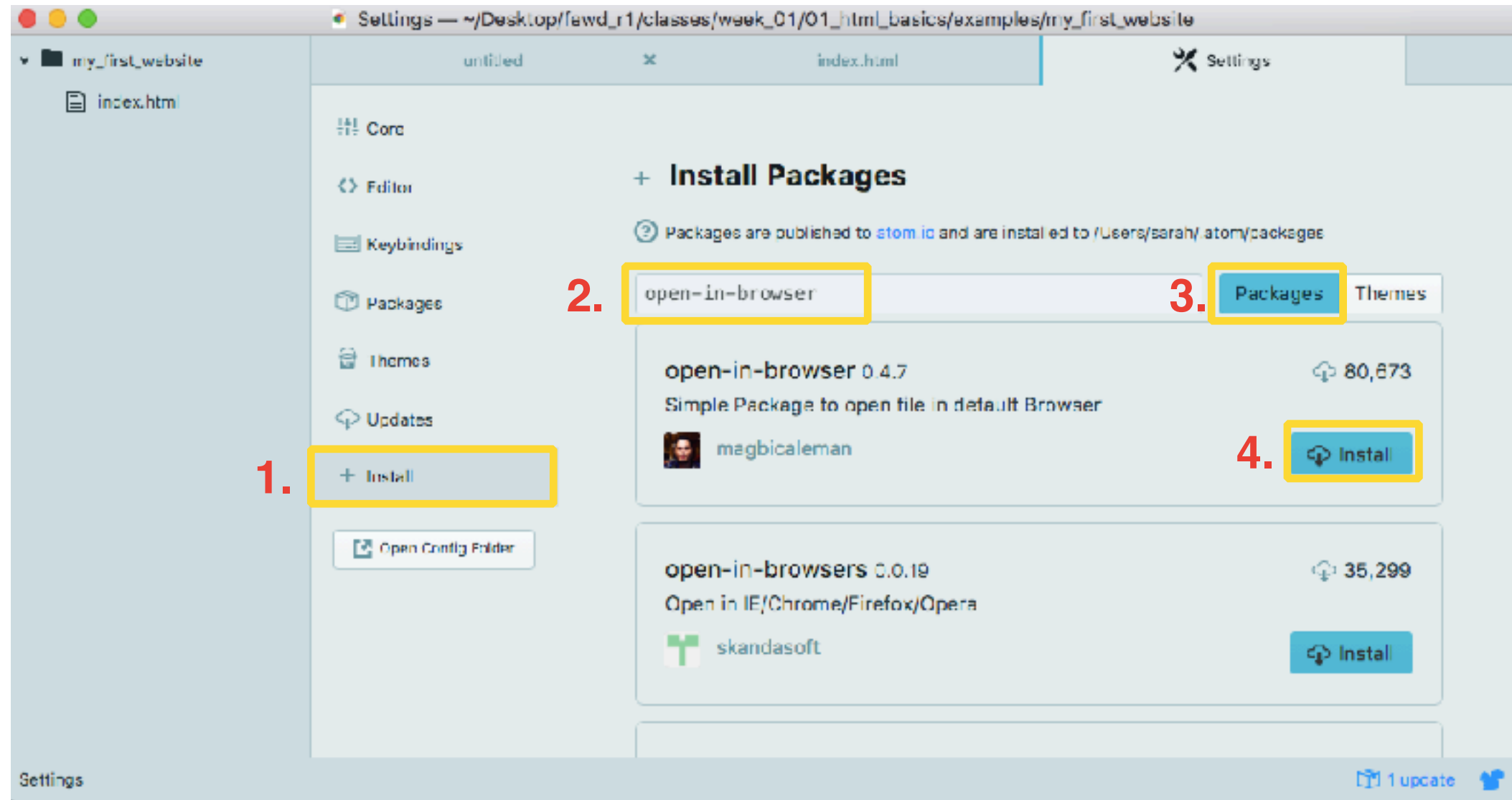
Mac: Make selection then command + d

Windows: Make selection then control + d

# SHORTCUTS — FIXING INDENTATION



# OPEN-IN-BROWSER PLUGIN



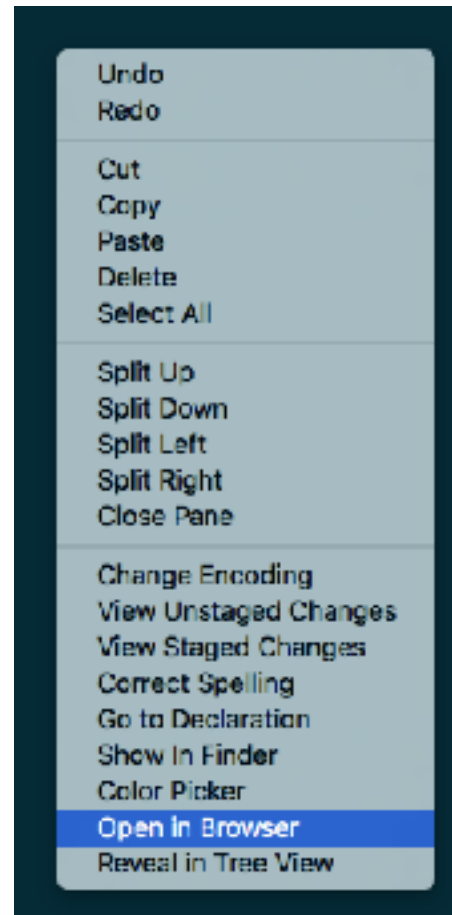


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# HTML STRUCTURE

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



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**HTML**

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# LAB — PART 1

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**HTML**

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# LAB — PART 2

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# ACTIVITY: PRACTICE WRITING HTML

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## EXERCISE

### DIRECTIONS

1. Add HTML to structure the text in this [CodePen](#)
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**

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# **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.

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# **CODING 101 : HTML + CSS**

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## **REFERENCE PAGES:**

- Mozilla Developer Network
- W3Schools
- CSS Tricks

## HTML BASICS

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# 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.

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**HTML BASICS**

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# **HOMEWORK**



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**HTML BASICS**

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# EXIT TICKETS