
SETUP INSTRUCTIONS

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

Student Services at 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

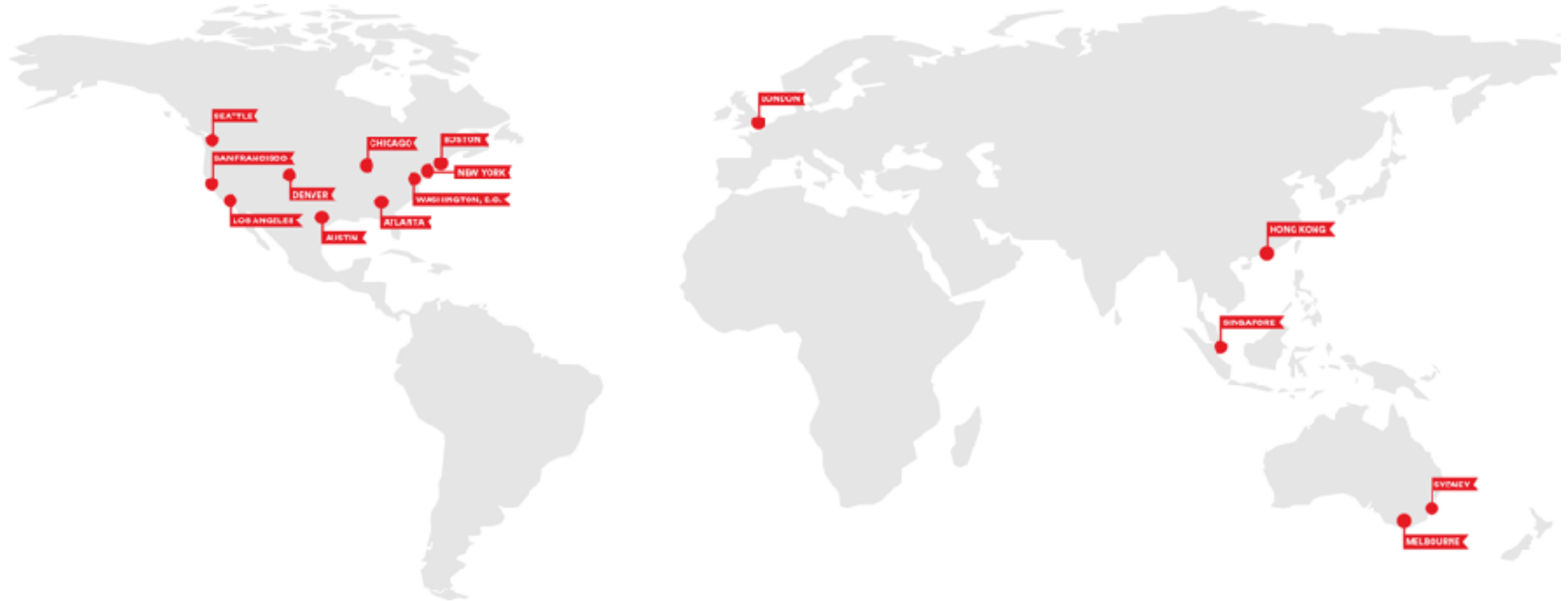
INTRODUCTIONS

- 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



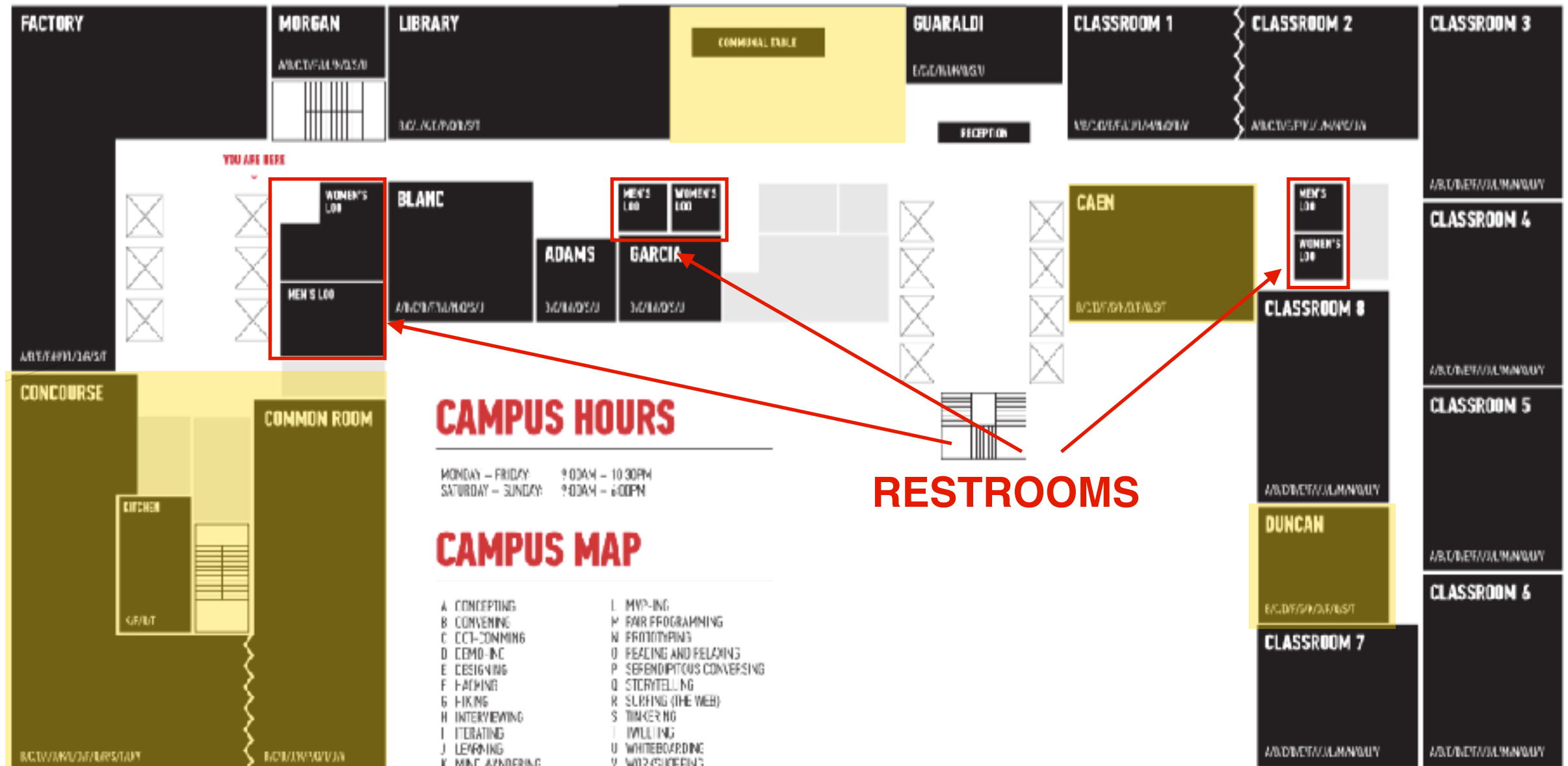


Come work on campus.

We're open:

8am - 10pm, Monday to Friday

10am - 6pm, Saturday and Sunday



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



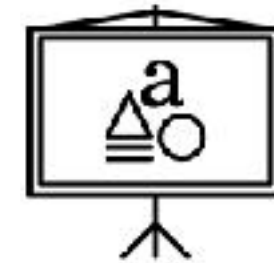
Complete 80% of the homework

1

2



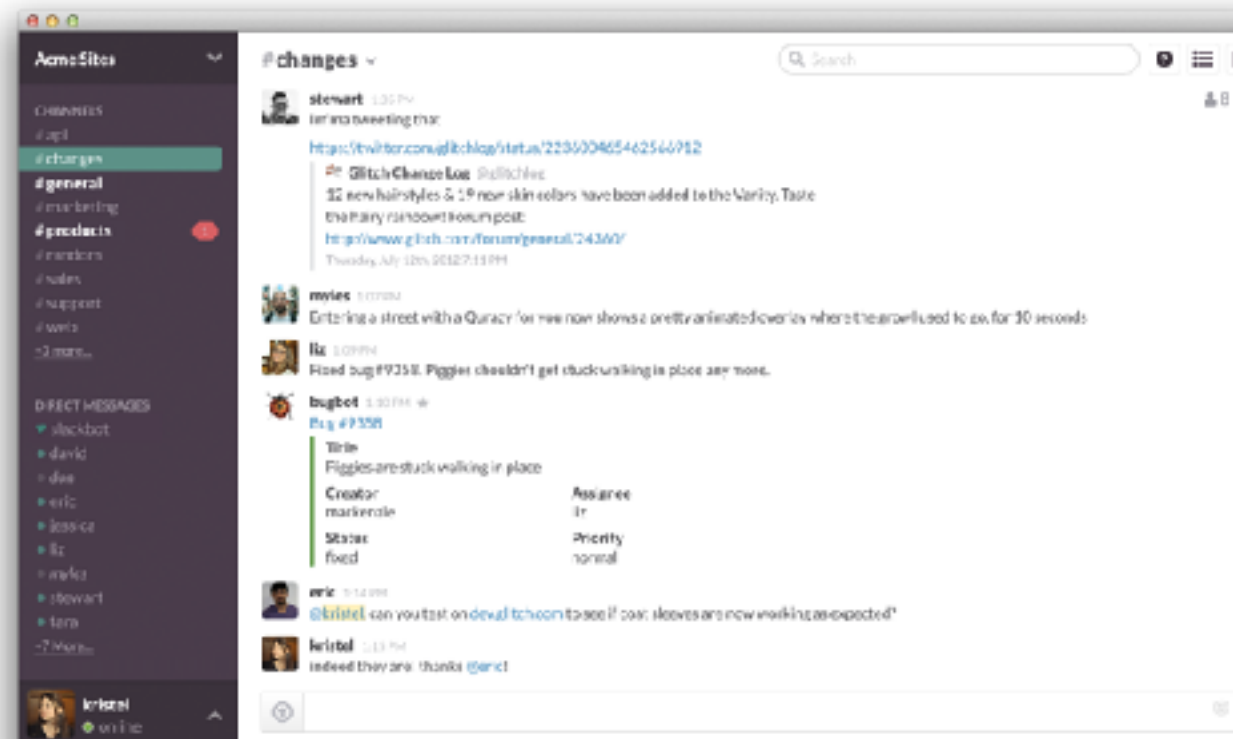
Don't miss more than 3 classes



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

WEEK 1

HTML Basics

WEEK 2

CSS Basics / CSS Selectors

WEEK 3

Layout / Layout Lab & Wireframing

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

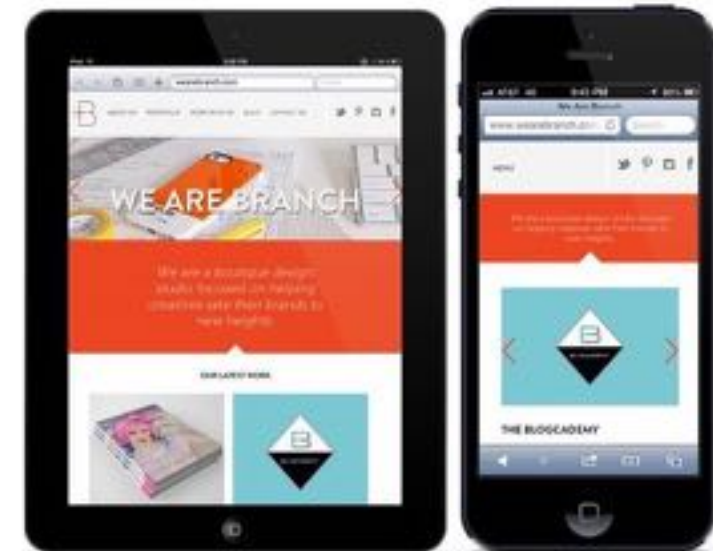
Lab Time

FEWD

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

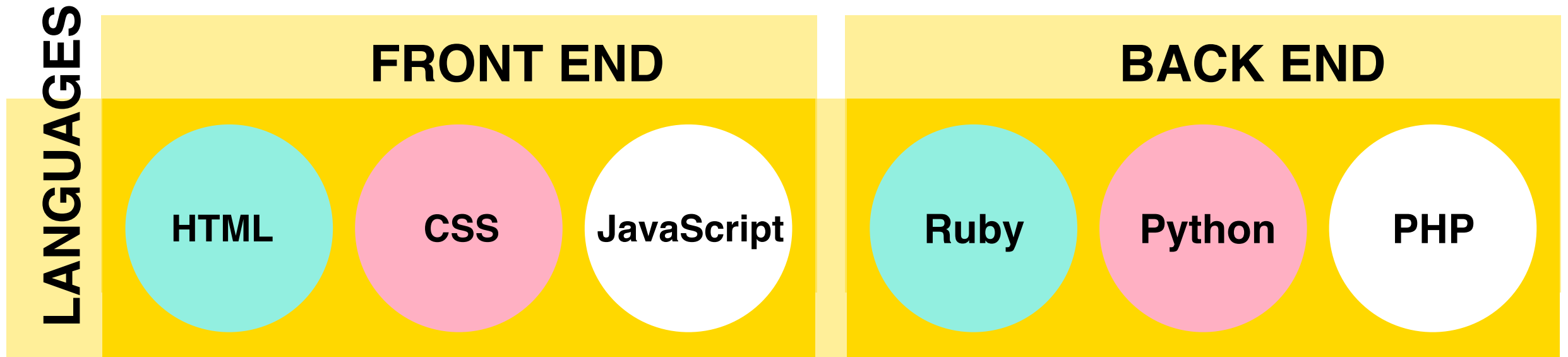


WEB PRODUCTION WORKFLOW — BACK END

- 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



- 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...

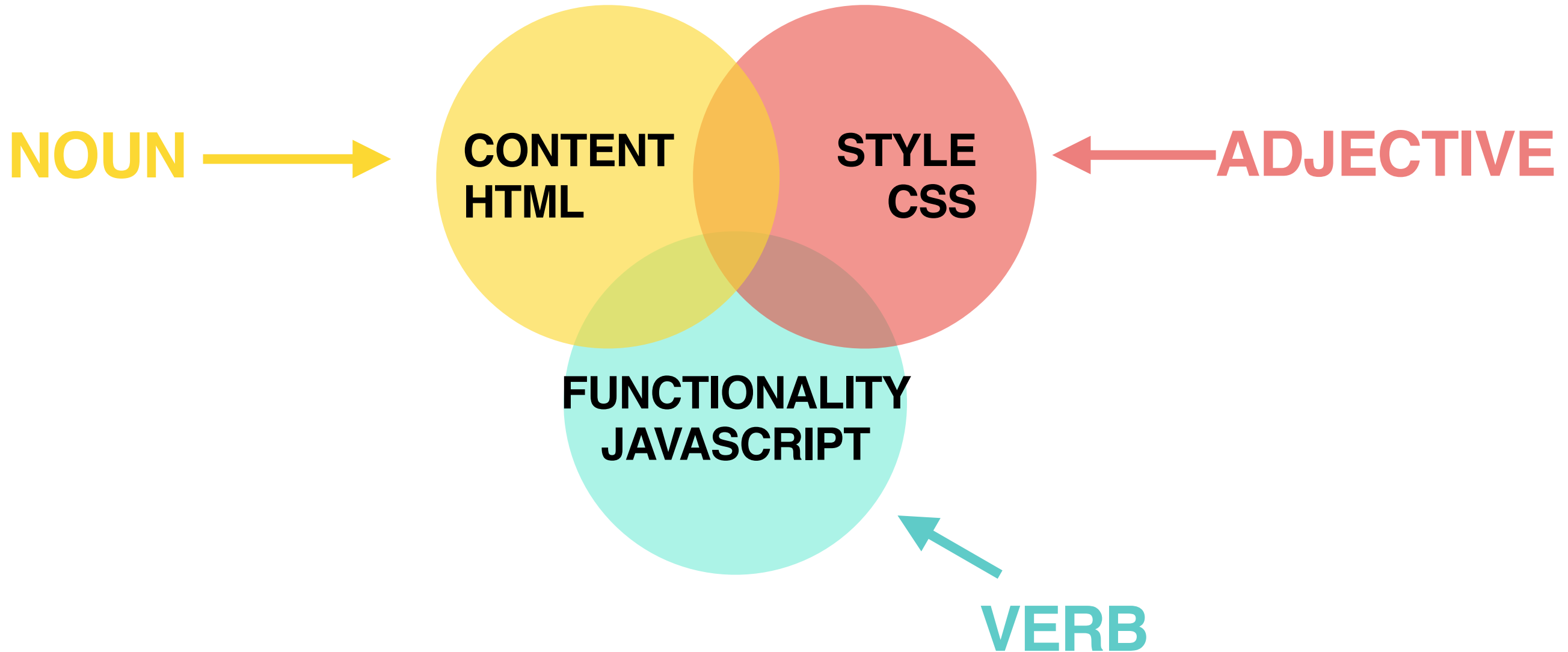
HTML

CSS

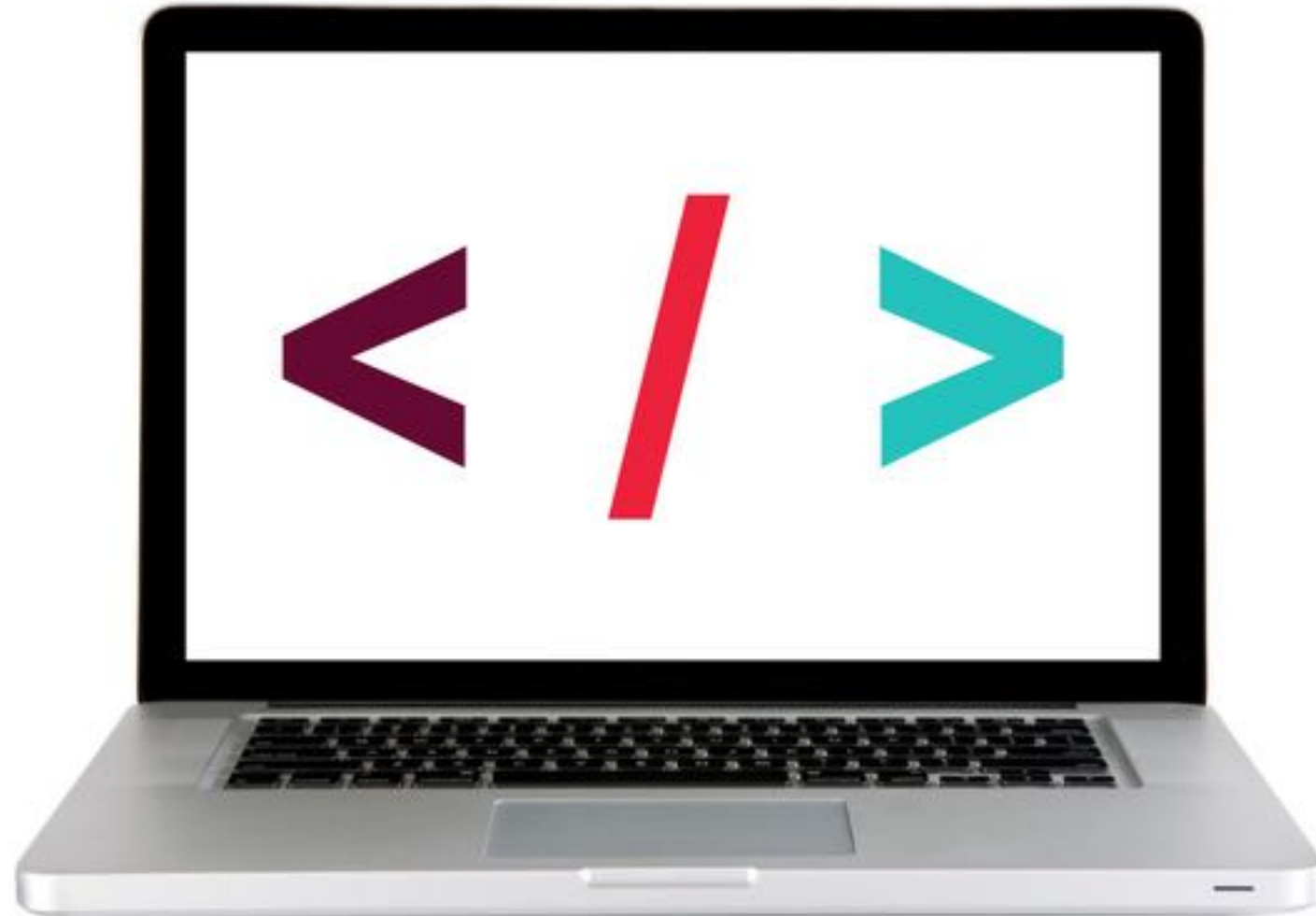
JavaScript



THE THREE AMIGOS: STRUCTURE, STYLE, BEHAVIOR



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?

SECTIONSSEARCH

U.S.INTERNATIONAL

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The New York Times

Monday, January 5, 2016Today's Paperin VideoNYTDown 0.80%

WorldU.S. PoliticsNew YorkBusinessOpinionTechnologyScienceHealthSportsArtsStyleFoodHomeTravelMagazinesReal Estate

New York City Police Sharply Cut Arrests for a Second Week

By J. DAVID GOODMAN and AL HANCOCK 10:10 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.

158 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.

490 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 DERNY and WILLIAM McDONALD

Afghan Cares for the Living by Carrying the Dead

By GUYAN SIMPSON FOR THE NEW YORK TIMES

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.

The Central Crisis in New York Education
By THE EDITORIAL BOARD
New York, which regards itself as a bastion of liberalism, has the most racially and economically segregated schools in the nation.

Editorial: Race and Voting Rights in Ferguson

Editorial: Shifting Politics on the Death Penalty

Op-Ed: Loving the Fight Against Tuberculosis

Watching

10A 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.
Milwaukee Journal Sentinel

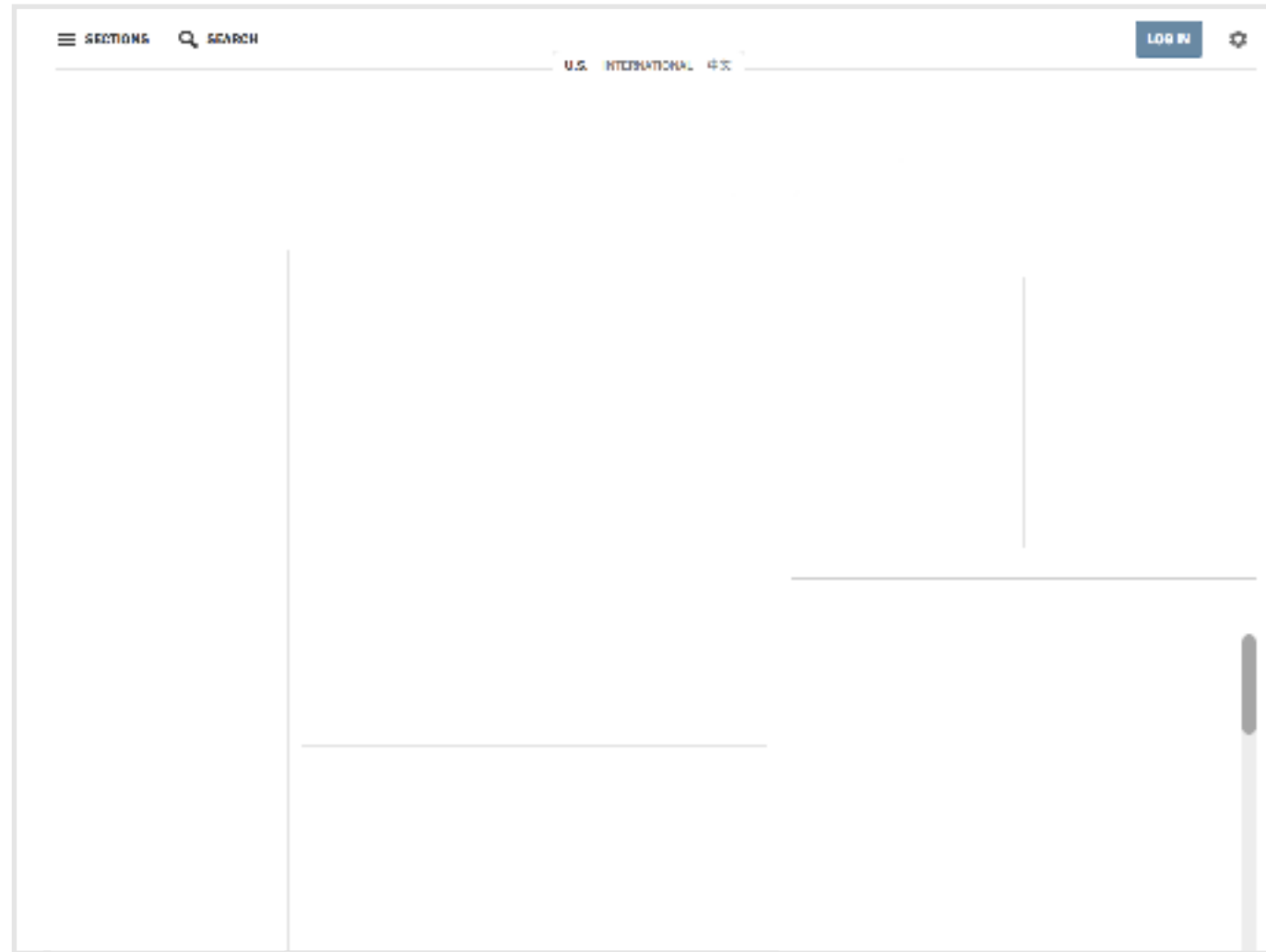


12PM Markets tumbled in Europe and the U.S. as the declining price of oil sent ripples around the world.
The New York Times

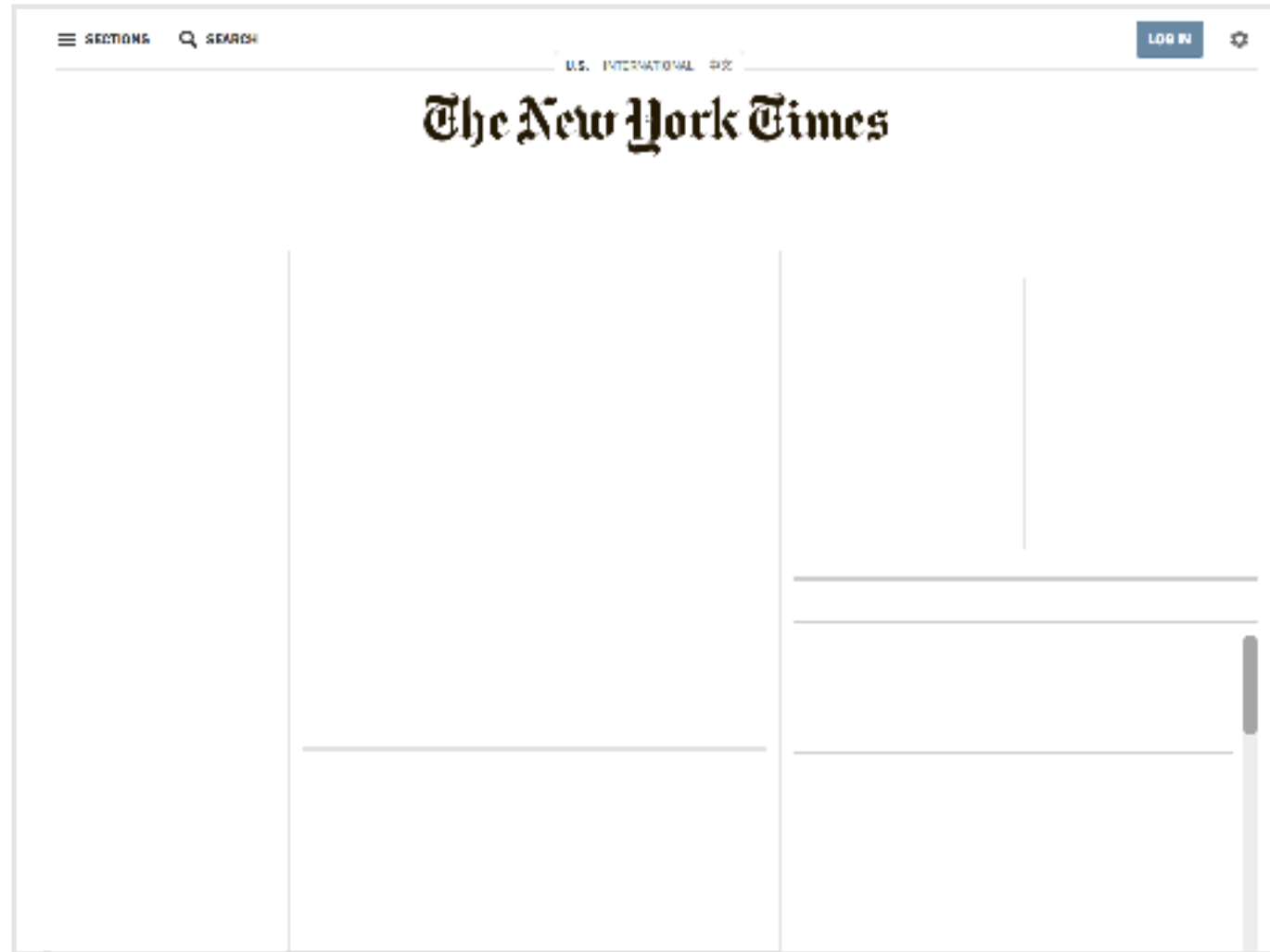
2PM Gov. Jerry Brown, already California's longest-serving governor, will be sworn in Monday for his fourth term. He has said he plans to shore up the state's fiscal turnaround.
The Los Angeles Times



WHAT IS HTML?



WHAT IS HTML?



WHAT IS HTML?



WHAT IS HTML?

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The New York Times

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[108 Comments](#)

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[830 Comments](#)

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By ENID NEMY and WILLIAM McDONALD

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By AZAM AHMED 12:07 PM ET

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[Milwaukee Journal Sentinel](#)

22m **Markets tumbled in Europe and the U.S.** as the declining price of oil sent ripples around the world.

[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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WHAT IS HTML?

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The New York Times

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By CHAD HUIZEND

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.

140 Comments



For R. Corrado/The New York Times

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

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By EDWARD WYLLIE and WILLIAM McDONALD

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OP-ED COLUMNISTS

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

The Opinion Pages

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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><h1>The Explorer</h1></code>
h2 - h6	Subheadings	<code><h2>Articles</h2></code>
p	Paragraph of text	<code><p>This is a really cool site.</p></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> Monday Tuesday Wednesday </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>
```

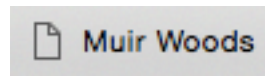
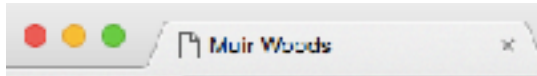
```
</body>
```

```
</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

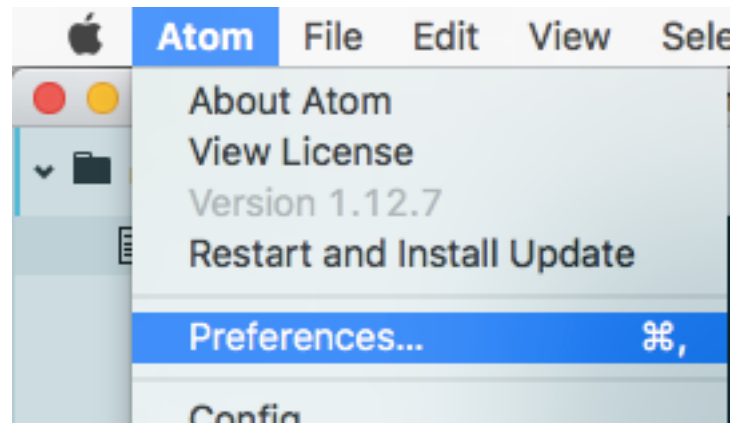


MORE HTML BASICS

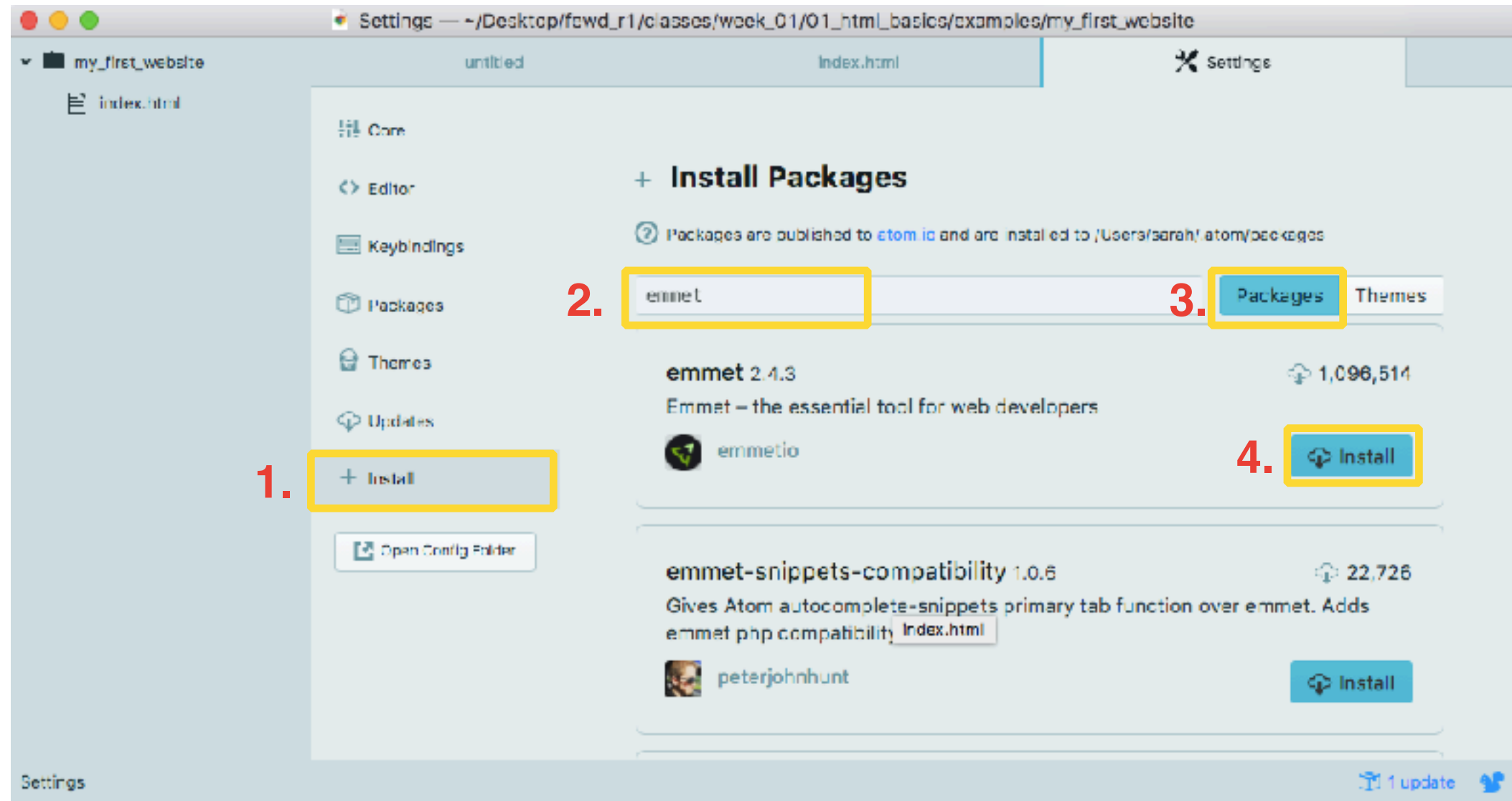
ATOM CONFIGURATION

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 ``

img + tab ``

ul + tab ``

li + tab ``

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

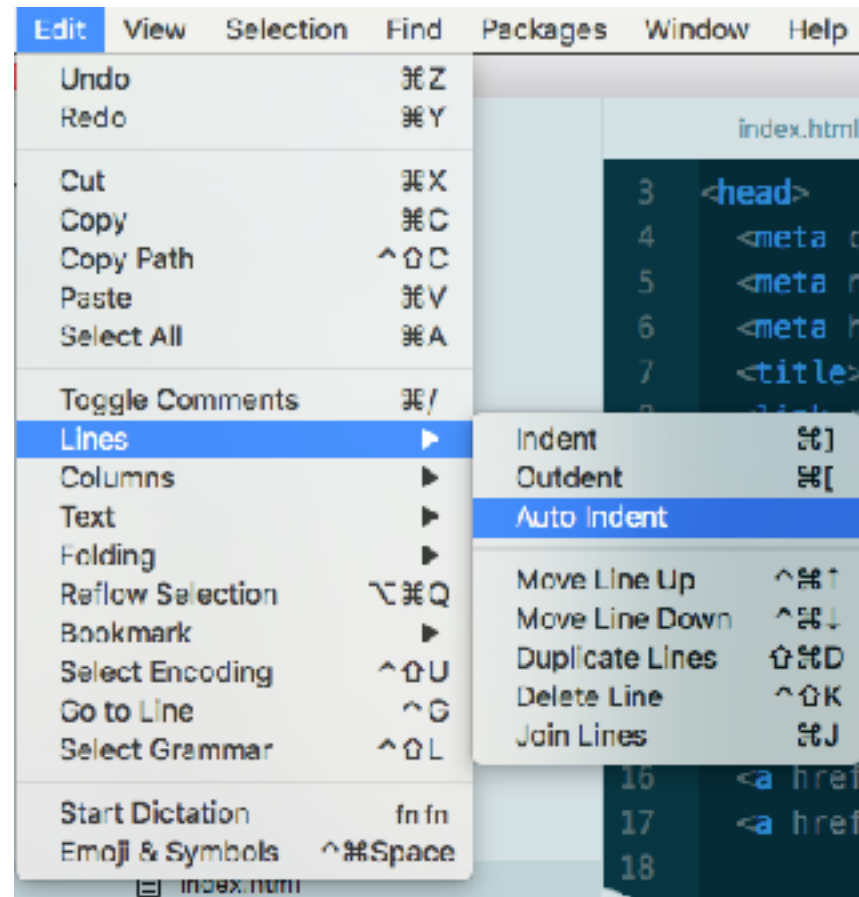
Windows: Hold down control and click in multiple places, then type

SELECT MULTIPLE INSTANCES OF TEXT:

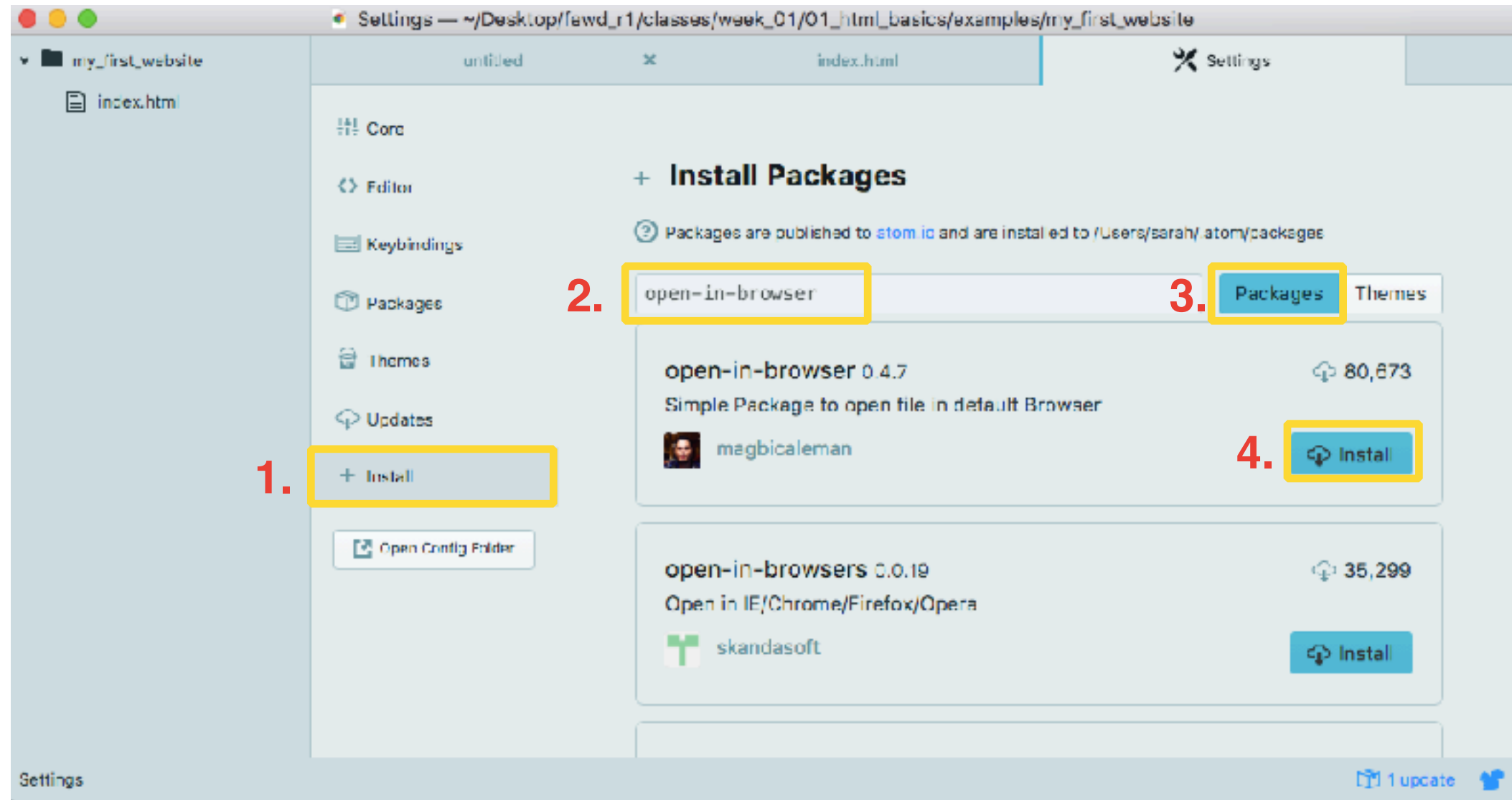
Mac: Make selection then command + d

Windows: Make selection then control + d

SHORTCUTS — FIXING INDENTATION

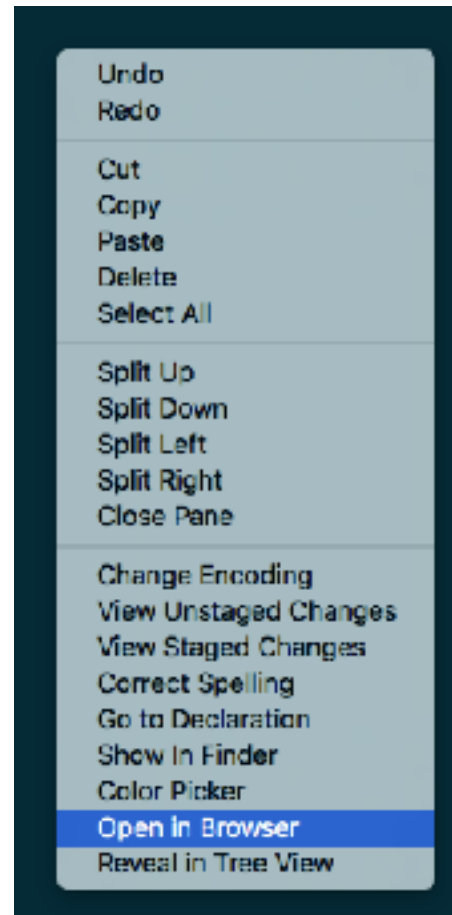


OPEN-IN-BROWSER PLUGIN



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



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

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

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.

HTML BASICS

HOMEWORK

HTML BASICS

EXIT TICKETS