
SETUP INSTRUCTIONS

WELCOME TO FEWD!

- › Please make sure you are on camera and say hello to your new classmates!
- › Visit the dashboard and keep it open: wolfdan
- › 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



SARAH HOLDEN



MADELINE O'MOORE

MEET YOUR CLASSMATES



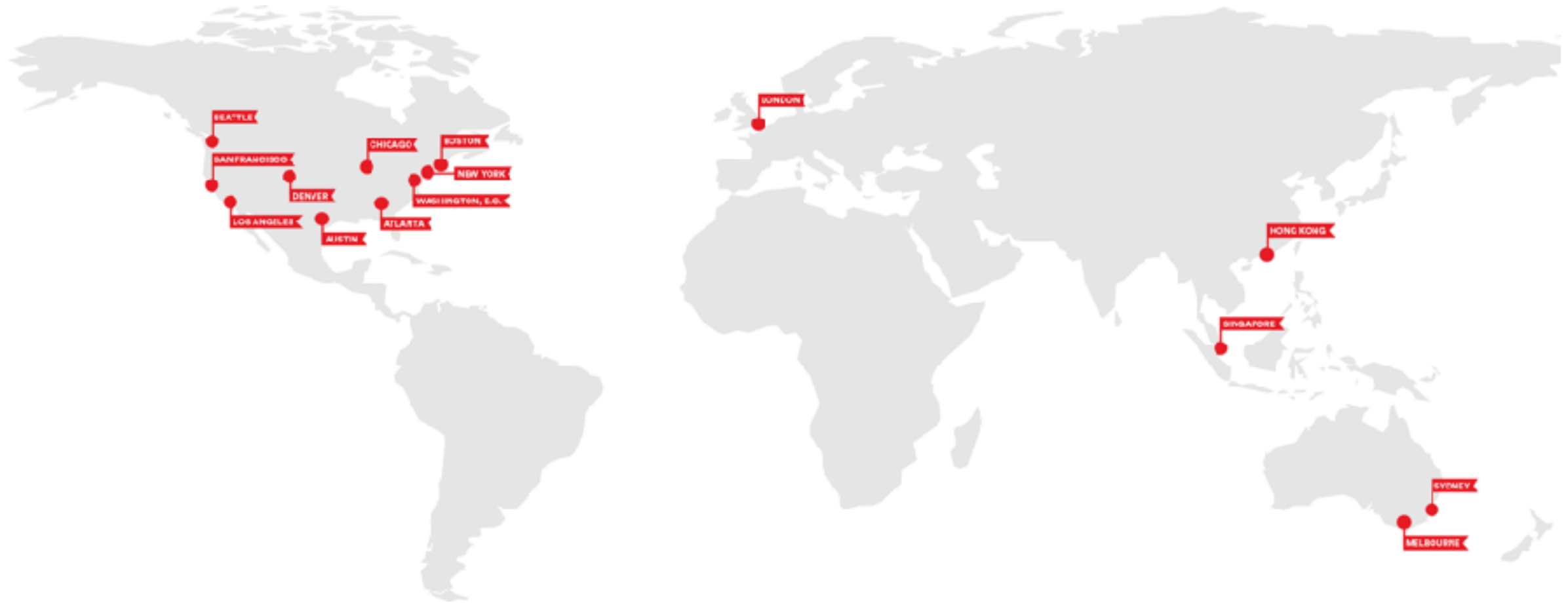
INTRODUCTIONS

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 desk 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. Both are smiling and looking at the tablet. In front of them is a laptop. To the right, a computer monitor displays a colorful bar chart. The background is a chalkboard with some faint writing. The text "THE STUDENT EXPERIENCE" is overlaid in large, white, bold, sans-serif capital letters across the middle of the image.

THE STUDENT EXPERIENCE

15+ campuses around the world



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



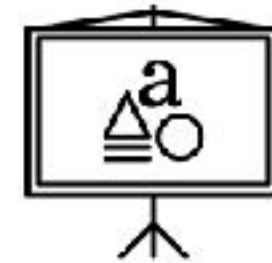
Complete 80% of the homework

1

2



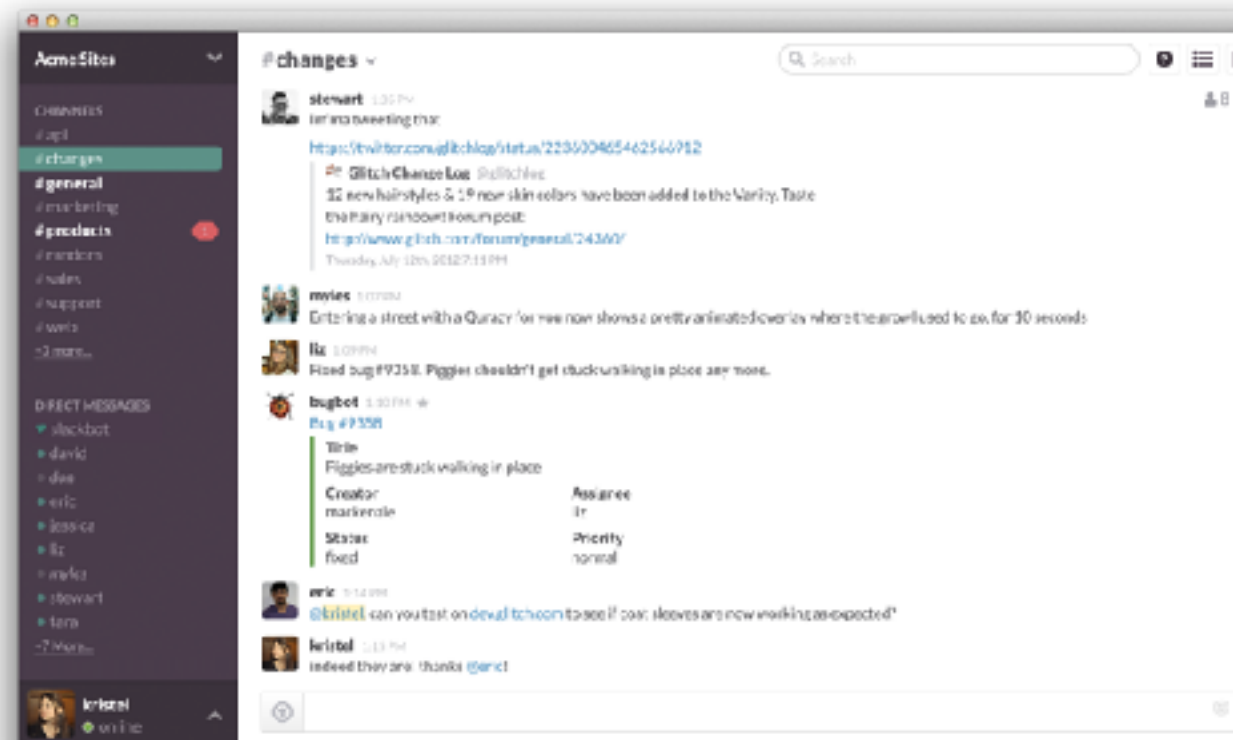
Don't miss more than 3 classes



Complete and present a final project

3

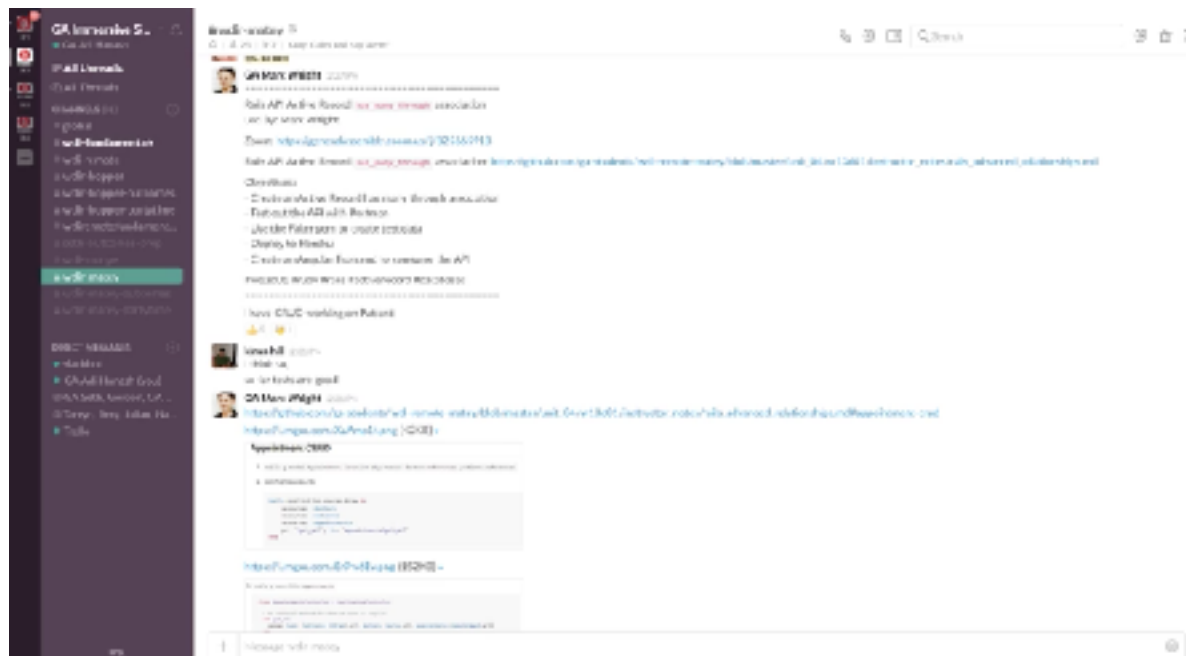
Slack



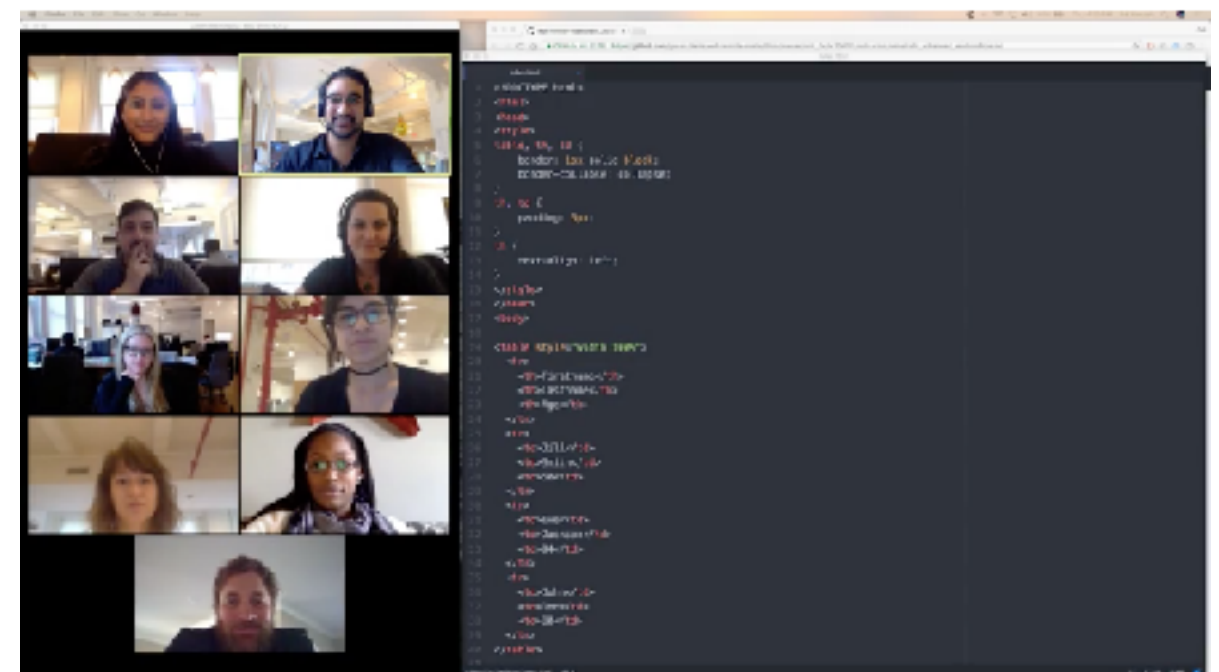
All course communication with each other and your instructor will happen here.

Setup — With External Monitor

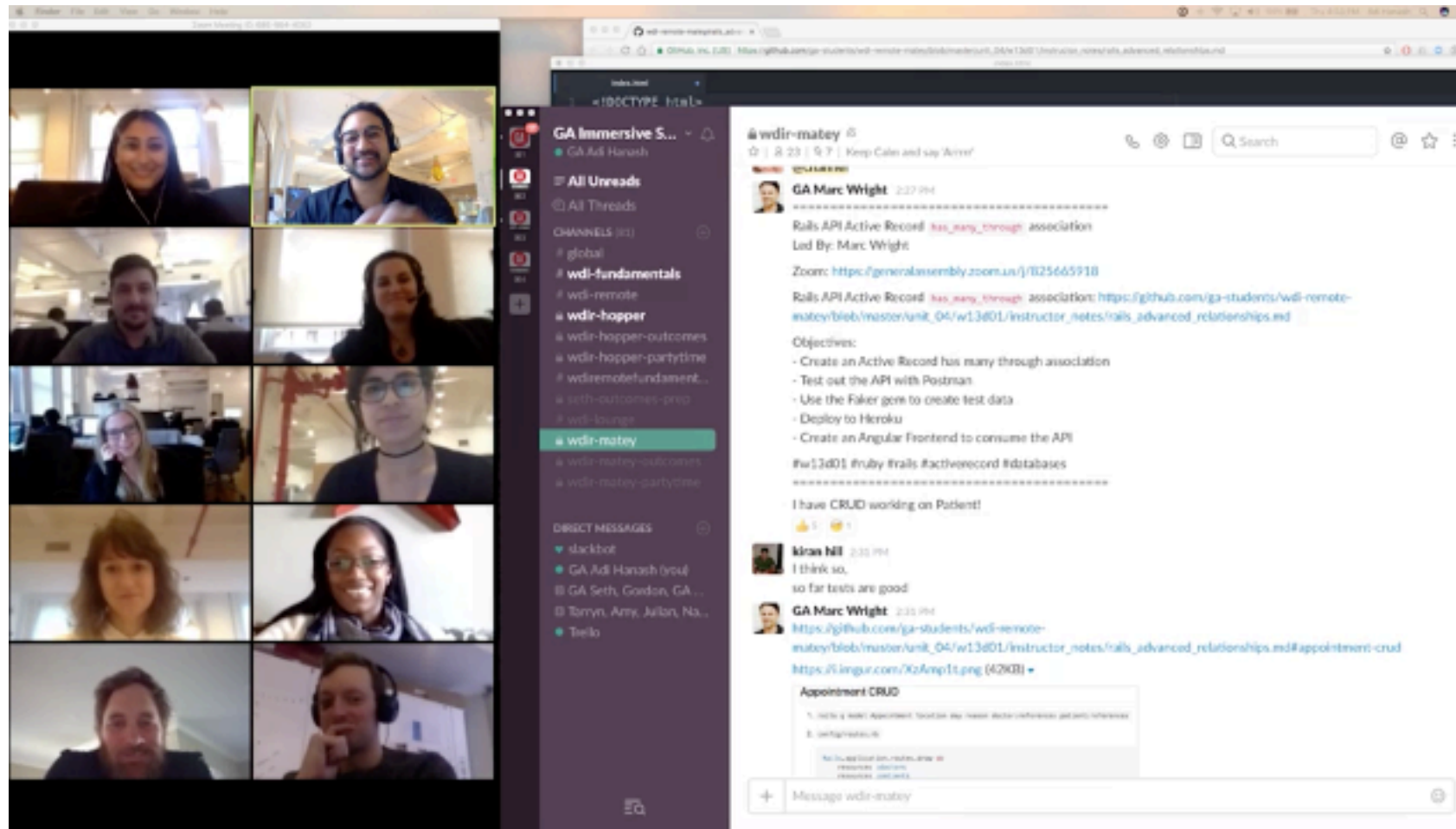
PRIMARY MONITOR:



EXTERNAL MONITOR:



Setup — Without External Monitor



Help Us Help You!

Send Madeline 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

Send Madeline and Sarah a Slack message if:

- You are having trouble completing your assignments
 - You're struggling with the material
 - You'd like some bonus tasks
-

Important Class Info

- Homework is due Mondays at 11:59pm PST
- All materials will be posted on the Wolfman before each class
- [Course schedule and assignment outline](#)
- Class meets 6:30 - 9:30 EST Tuesdays and Thursdays from October 10th - December 14th

FRONT-END WEB DEVELOPMENT

LET'S GET STARTED!



WHAT IS FRONT-END DEVELOPMENT?

HTML BASICS

WEEKLY OVERVIEW

WEEK 1

HTML & CSS Intro / CSS Basics

WEEK 2

CSS Selectors / Layout

WEEK 3

Layout Lab & Wireframing / Responsive Design

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.
- Use CSS to add styles to a webpage.

AGENDA

Front-End vs. Back-End

Intro to Front-End Development

Intro to HTML

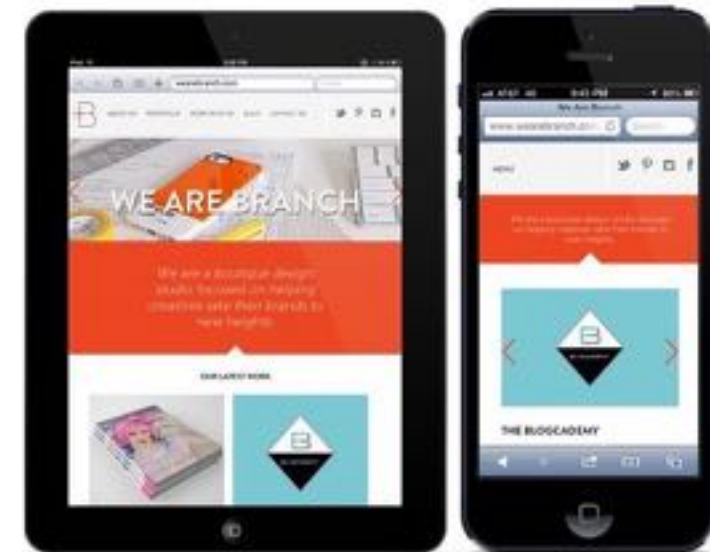
Lab Time

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

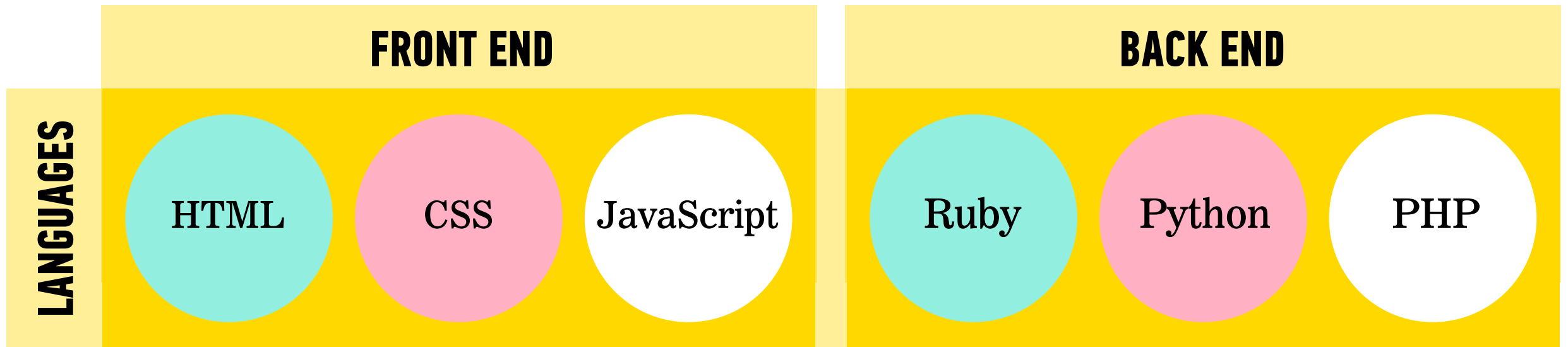


WEB PRODUCTION WORKFLOW — BACK END

- 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?

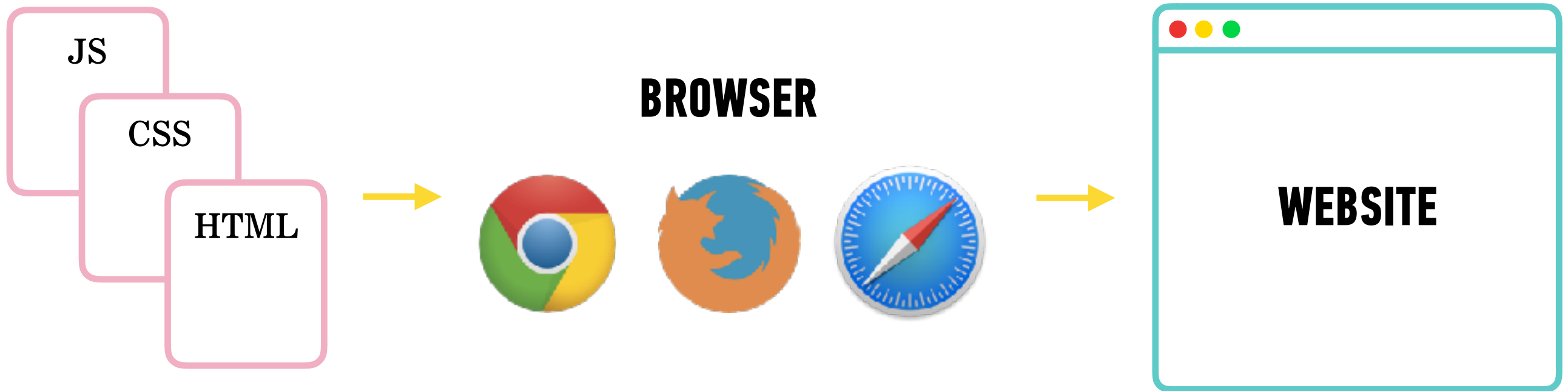
CLIENT AND SERVER

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...

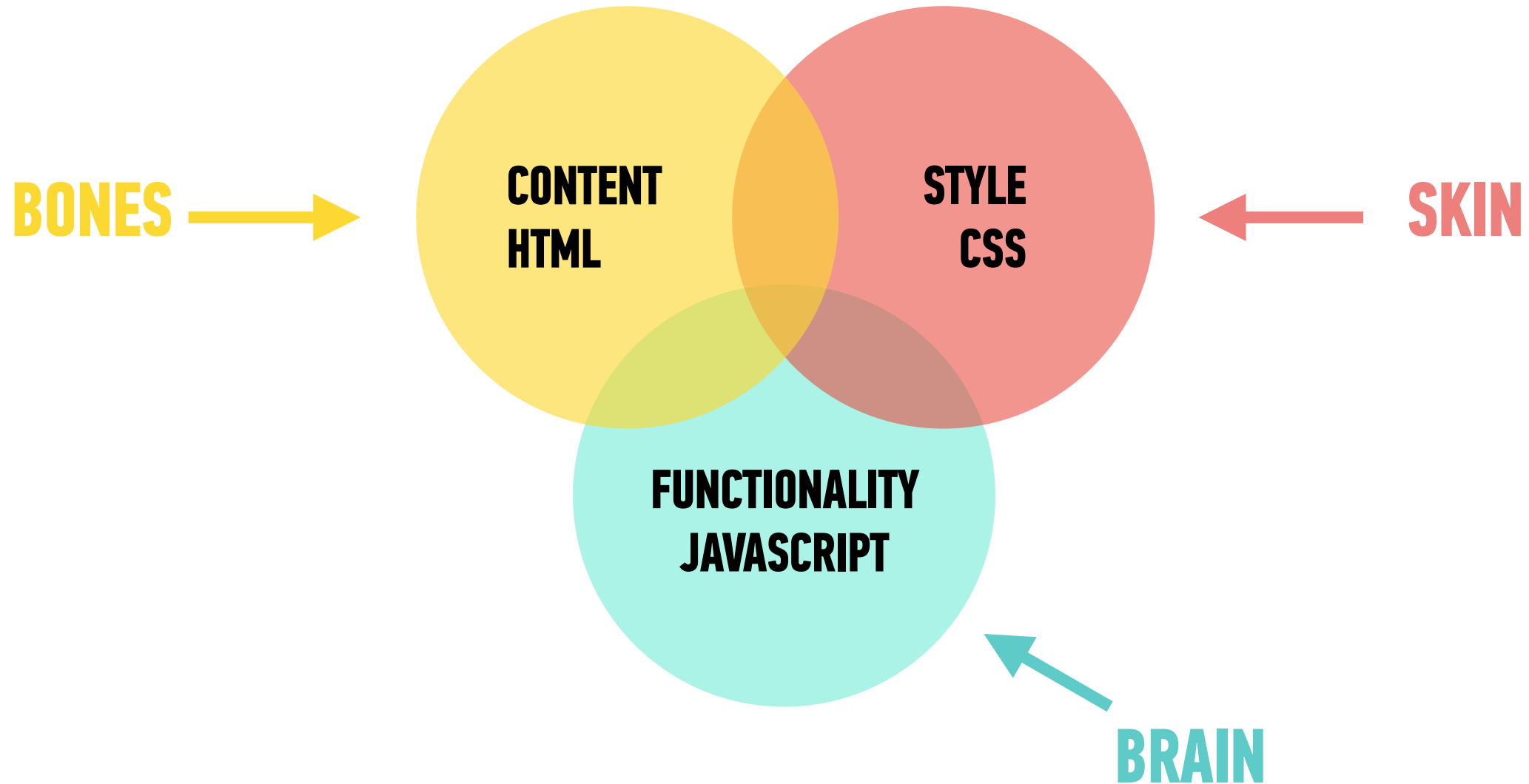
HTML

CSS

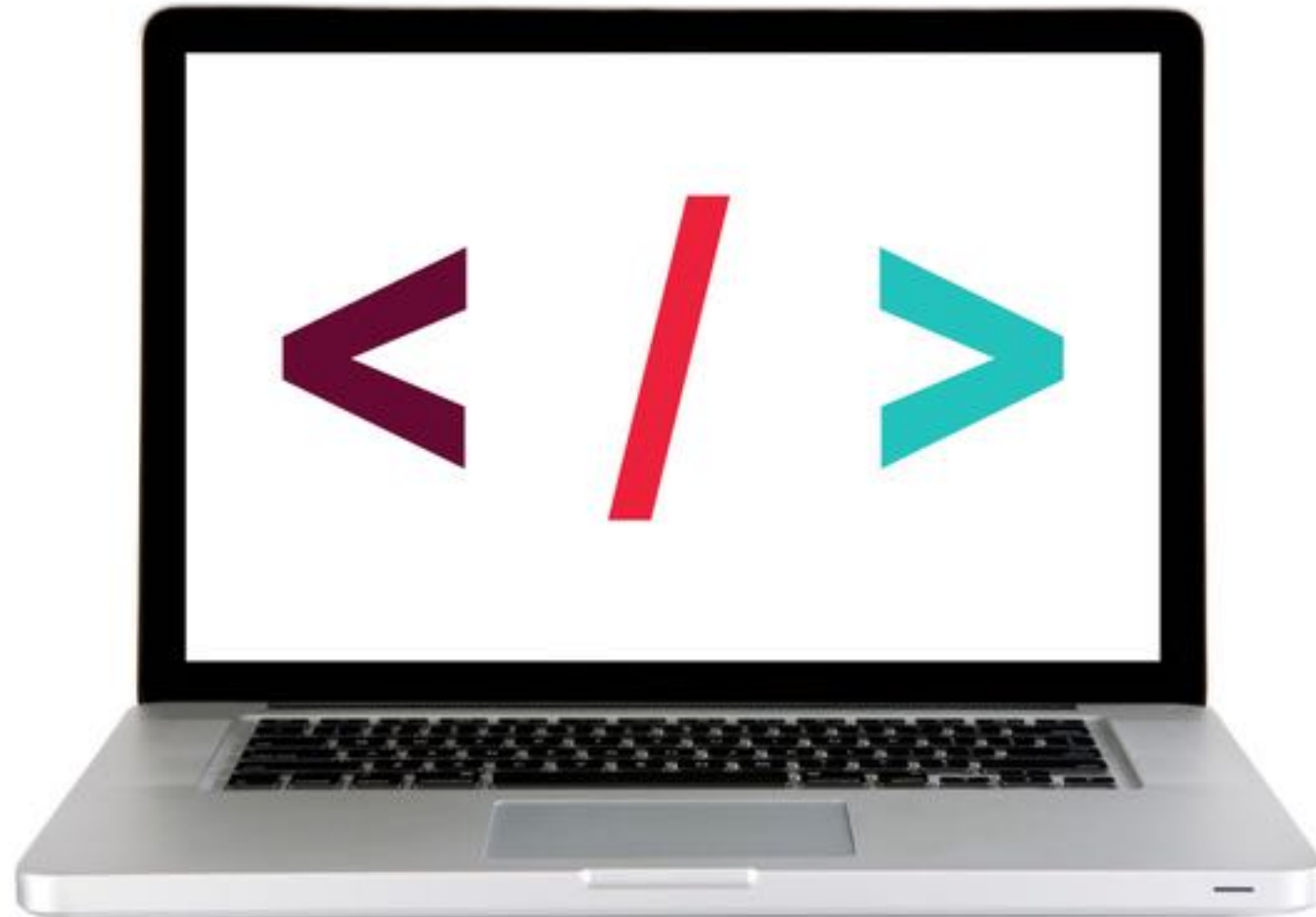
JavaScript



THE THREE AMIGOS: STRUCTURE, STYLE, BEHAVIOR



LET'S TAKE A CLOSER LOOK



<https://codepen.io/sarahholden/pen/VWgYxv?editors=1000>

ACTIVITY: DISTINGUISH BETWEEN HTML, CSS, AND JS



EXERCISE

DIRECTIONS

1. Visit [lyft.com](https://www.lyft.com).
2. The words “Rides in Minutes” appears due to _____?
3. The reason for which “Rides 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 _____?
5. Now hover over the "Sign Up to Ride" link. The change in color on hover is most likely due to _____ ?

FEWD

HTML BASICS

HTML BASICS

WHAT IS HTML?

WHAT IS HTML?

SECTIONS

SEARCH

U.S. INTERNATIONAL

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The New York Times

Monday, January 9, 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 10:00 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. COOPER and JEFFREY M. PERETZ

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.

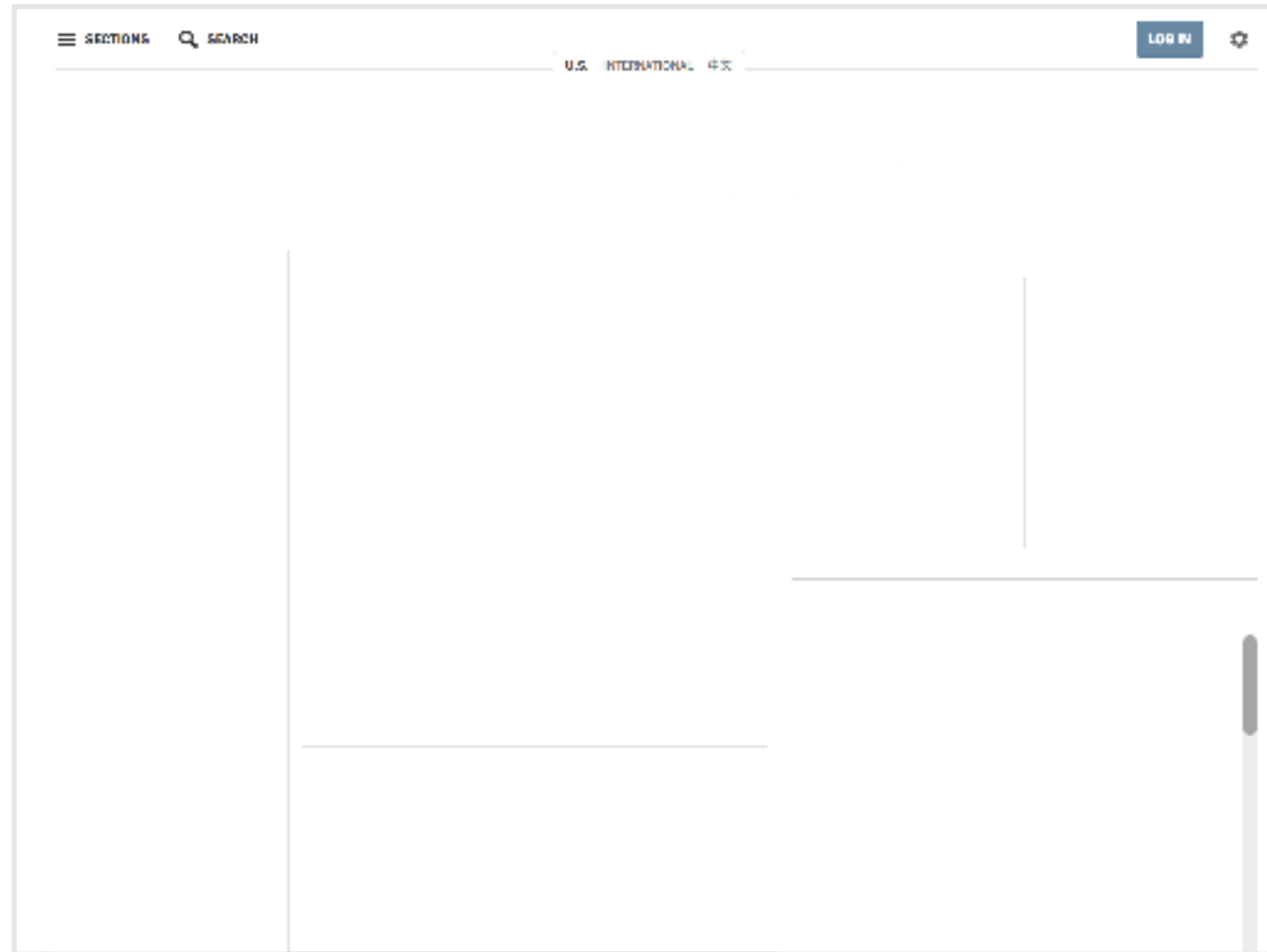
11A

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

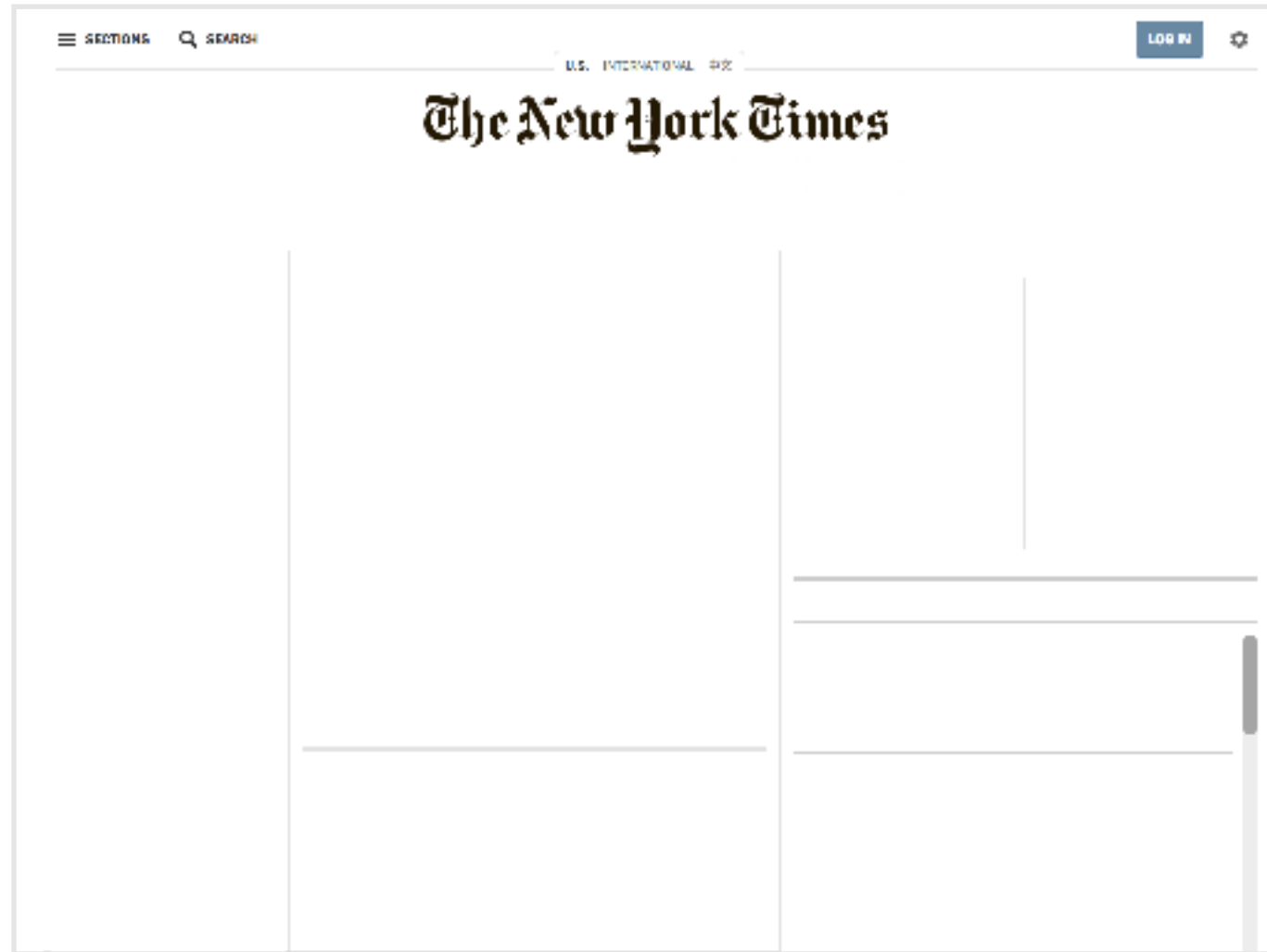
12M

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?

[SECTIONS](#) [SEARCH](#)

[U.S.](#) [INTERNATIONAL](#) [中文](#)

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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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By ENID NEMY and WILLIAM McDONALD

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By AZAM AHMED 12:07 PM ET

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[Milwaukee Journal Sentinel](#)

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Republicans Say They'll Act Fast to Push Their Agenda

By GREG MILLER

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



Photo: R. Corrad/The New York Times

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Mrs. 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 EDWARD WYLLIE and WILLIAM McDONALD

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By GUYAN ARNEOLD TOBY SMITH

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NEW

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Milwaukee Journal Sentinel



COM

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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 numbers.

The Los Angeles Times



HTML BASICS

STRUCTURAL MARKUP

Open your browser and navigate to:

<http://codepen.io/sarahholden/pen/Ka0JXd>

HOW DO I WRITE HTML?

OPENING TAG CLOSING TAG

<tagName>content</tagName>

ELEMENT

The diagram illustrates the structure of an HTML element. It shows the text '<tagName>content</tagName>' centered. Above the opening tag '<tagName>' is the label 'OPENING TAG' in teal, connected by a teal horizontal line and a vertical line. Above the closing tag '</tagName>' is the label 'CLOSING TAG' in teal, also connected by a teal horizontal line and a vertical line. Below the entire string '<tagName>content</tagName>' is a long pink horizontal line, with a vertical pink line extending down to the label 'ELEMENT' in pink.

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>
```

ANCHORS (LINKS TO OTHER PAGES)

- Users can click on anything between the opening and closing `<a>` tags.

`Amazon`

CLICKABLE TEXT

ANCHOR

- Specify which page you want to link using the **href** attribute.

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



A horizontal teal line is positioned under the URL "http://www.amazon.com" in the code above. A vertical teal line descends from the center of this horizontal line to the text below.

PAGE THE LINK TAKES
YOU TO

THE IMAGE TAG

```

```

PATH TO IMAGE FILE INCLUDING HTTP OR HTTPS

TEXT DESCRIPTION

HTML

LAB — PART 1

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.

ACTIVITY: PRACTICE WRITING HTML

SOLUTION CODE

1. HTML Solution: <https://codepen.io/sarahholden/pen/KqbdyW>



EXERCISE

INTRO TO CSS

WHAT IS CSS?



A demonstration of what can be accomplished through CSS-based design. Select any style sheet from the list to load it into this page.

Download the example [HTML FILE](#) and [CSS FILE](#)

THE ROAD TO ENLIGHTENMENT

Littering a dark and dreary road lay the past relics of browser-specific tags, incompatible DOMs, broken CSS support, and abandoned browsers.

We must clear the mind of the past. Web enlightenment has been achieved thanks to the tireless efforts of folk like the W3C, WASP, and the major browser creators.

The CSS Zen Garden invites you to relax and meditate on the important

MID-CENTURY MODERN

by Andrew Lohman

GARMENTS

by Dan Mall

STEEL

by Steffen Knöller

APOTHECARY

by Trent Walton

HTML

CSS BASICS

WHAT IS CSS?

We use CSS to add *styles* to the HTML elements on our page.

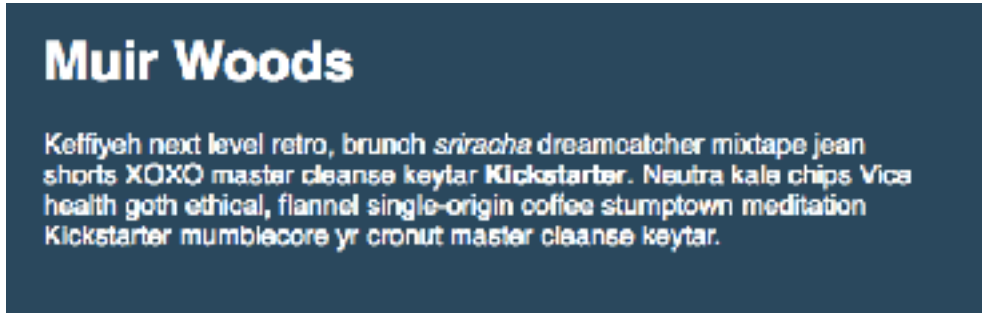
What we are styling
(**selector**)



```
p {  
  color: blue;  
  font-size: 20px;  
  font-style: italic;  
}
```

COLOR

| PROPERTY | VALUE | DESCRIPTION | EXAMPLE |
|------------------|-------|------------------|--------------------------|
| color | color | Text color | color: #22475E; |
| background-color | color | Background color | background-color: green; |



```
body {
  background-color: #22475E;
}
```



```
h1, p {
  color: #98D2BF;
}
```

DEFAULT TEXT STYLES & BACKGROUND-COLOR

```
body {  
  background-color: #22475E;  
  color: #0D2C40;  
}
```

MY FIRST WEBSITE

HTML and CSS Rule!



DEVELOPER'S CREED

Repeat this three times each night before you go to sleep.

"This is my website. There are many like it, but this one is mine. My website is my best friend. It is my life. I must master it as I must master my life. Without me my website is useless. Without my website I am useless."

STEPS TO CREATE A BASIC WEBPAGE:

1. Add structure using HTML.
2. Add styles using CSS.

THIS SITE WAS BUILT USING:

- HTML
- CSS

[Facebook](#) | [Twitter](#) | [Instagram](#)

Made with ❤️ at [Gerezi Assembly](#)

TYPEFACE TERMINOLOGY — PART 1

| PROPERTY | VALUES | EXAMPLE |
|-----------------|----------------------------------|-----------------------------|
| text-align | left, center, right, justify | text-align: center; |
| text-transform | uppercase, lowercase, capitalize | text-transform: uppercase; |
| text-decoration | none, <u>underline</u> | text-decoration: underline; |
| letter-spacing | px value | letter-spacing: 1px; |

COLOR

letter-spacing: 1px;

MY FIRST WEBSITE

HTML and CSS Rule!

TYPEFACE TERMINOLOGY — PART 2

| PROPERTY | VALUES | EXAMPLE |
|-------------|-----------------|---------------------|
| font-weight | normal, bold | font-weight: bold; |
| font-style | regular, italic | font-style: italic; |
| font-size | px value | font-size: 20px; |

COLOR

40px

MY FIRST WEBSITE

25px

HTML and CSS Rule!

FONT FAMILY

| PROPERTY | VALUES | EXAMPLE |
|-------------|--------------------------------|--------------------------------|
| font-family | "font name", sans-serif, serif | font-family: "Georgia", serif; |

Arial

Georgia

- ▶ We can provide a comma-separated list for the value.
- ▶ The browser will display the first font that is installed on that computer.

GOOGLE FONTS

Web font services — like Google Fonts — allow us to ensure that all users can see the same font.

1. Visit the link to Google Fonts on the dashboard
2. Click the tab that pops up at the bottom:



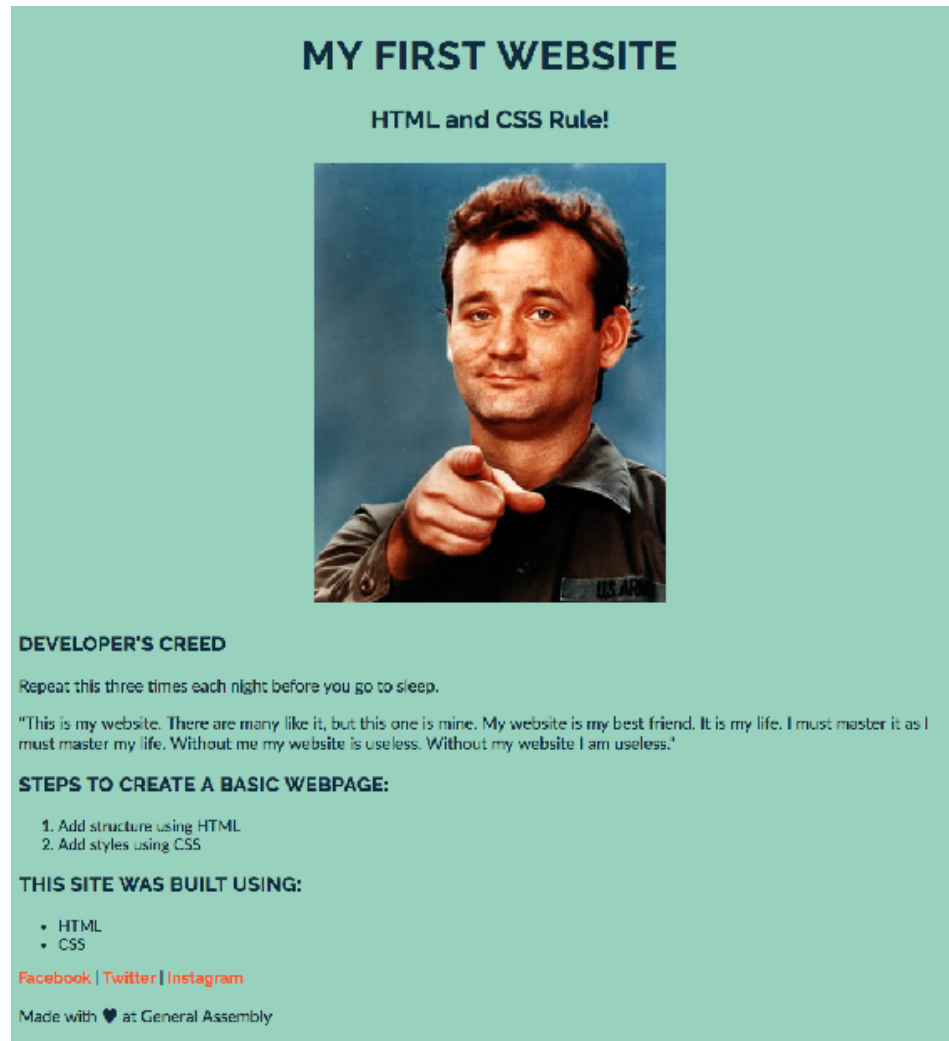
3. Click the "Embed" tab and @import
4. Copy the import code and paste it in your CSS file

```
body {  
  font-family: 'Raleway';  
}
```

```
p {  
  font-family: 'Lato';  
}
```

COLOR

Default font: "Raleway", sans-serif;



HTML

LAB — PART 2

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

ACTIVITY: CREATING YOUR FIRST HTML FILE

DIRECTIONS



EXERCISE

1. Write CSS to replicate the mockup for Part 2. You can choose between the [regular](#) or [advanced](#) version.
2. Use your cheatsheets.
3. Google anything you can't figure out. Be sure to include "html" or "css" in the search query.

ACTIVITY: PRACTICE WRITING CSS

SOLUTION CODE

1. Basic version: <https://codepen.io/sarahholden/pen/VWJoKM>
2. Advanced version: <https://codepen.io/sarahholden/pen/pwXMEM>



EXERCISE

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.
- Use CSS to add styles to a webpage.

WEEKLY OVERVIEW

WEEK 1

HTML & CSS Intro / CSS Basics

WEEK 2

CSS Selectors / Layout

WEEK 3

No class / Layout Lab & Wireframing

HTML BASICS

HOMEWORK

HTML BASICS

EXIT TICKETS