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## **SETUP INSTRUCTIONS**

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# **WELCOME TO FEWD!**

Wifi network: GA-GUEST  
Password: yellowpencil

- › Open Slack and add a photo to your profile
- › Sign up for GitHub Enterprise ([git.generalassemb.ly](https://git.generalassemb.ly))
- › Download Chrome and make it your default browser
- › Download the Visual Studio Code text editor

# **YOUR INSTRUCTIONAL TEAM**



# INTRODUCTIONS

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**Sasha Vodnik**

Lead Instructor



**Aurielle Perlmann**

Instructional Associate

# Student Services



**MATT JONES**  
Education Programs Producer

Email: [studentservicesSF@google.com](mailto:studentservicesSF@google.com)  
Slack: [studentservicessf](#)

## Course logistics

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

## Campus questions

- GA Facilities
- GA events outside of class
- Discounts for other courses

---

## Others you may see



**NIÑA PINEDA**

Front Lines Lead



**VANESSA OHTA**

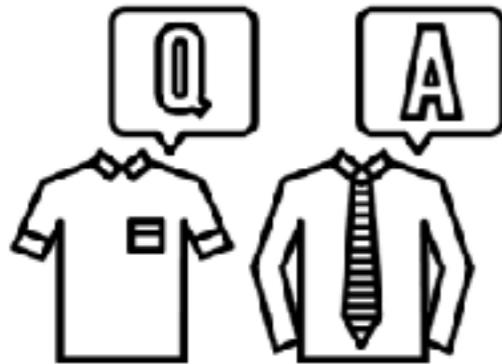
Instruction Manager

# MEET YOUR CLASSMATES



# Let's get to know each other

## STRUCTURE



**PAIRS**

**INTROS: 5 MIN  
SHARING: 10 MIN**



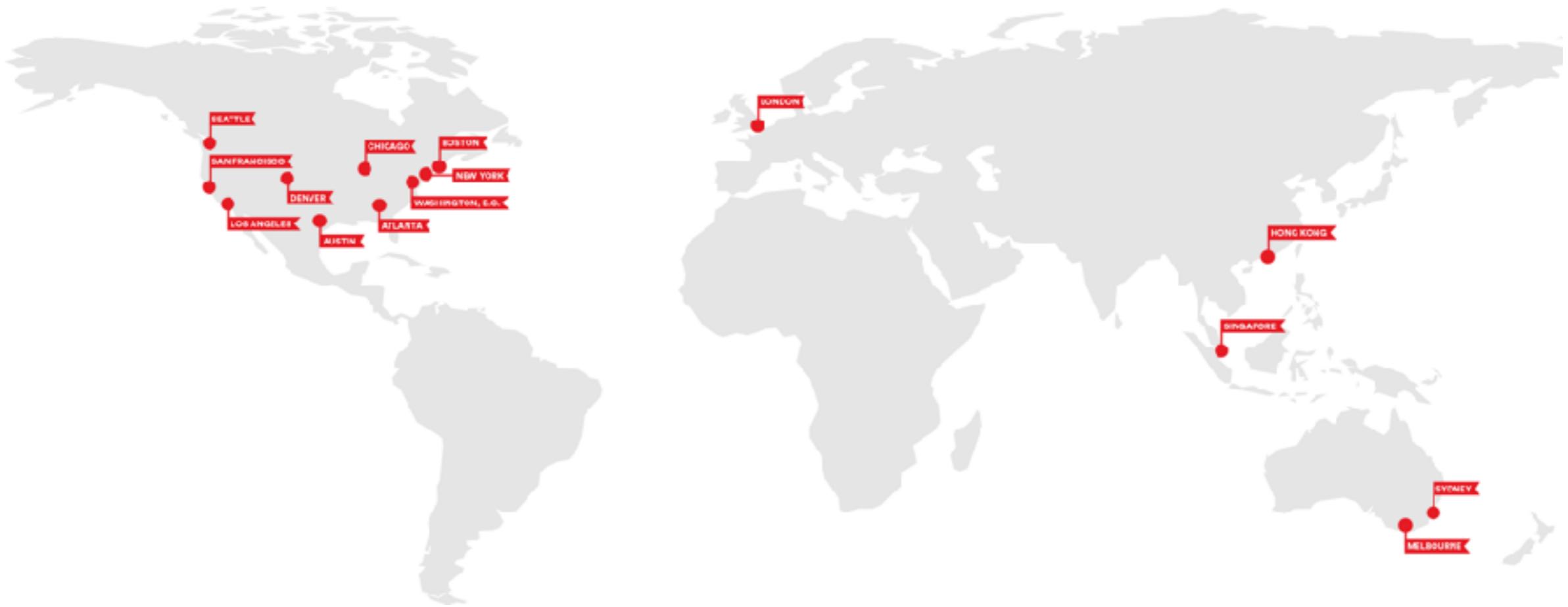
## OBJECTIVES

1. Take 5 minutes to get to know your neighbor by finding out:
  - a. Their name
  - b. Why they are taking this course
  - c. A guilty pleasure
  
2. Be prepared to introduce your neighbor to the rest of the room



# THE STUDENT EXPERIENCE

# 15+ campuses around the world





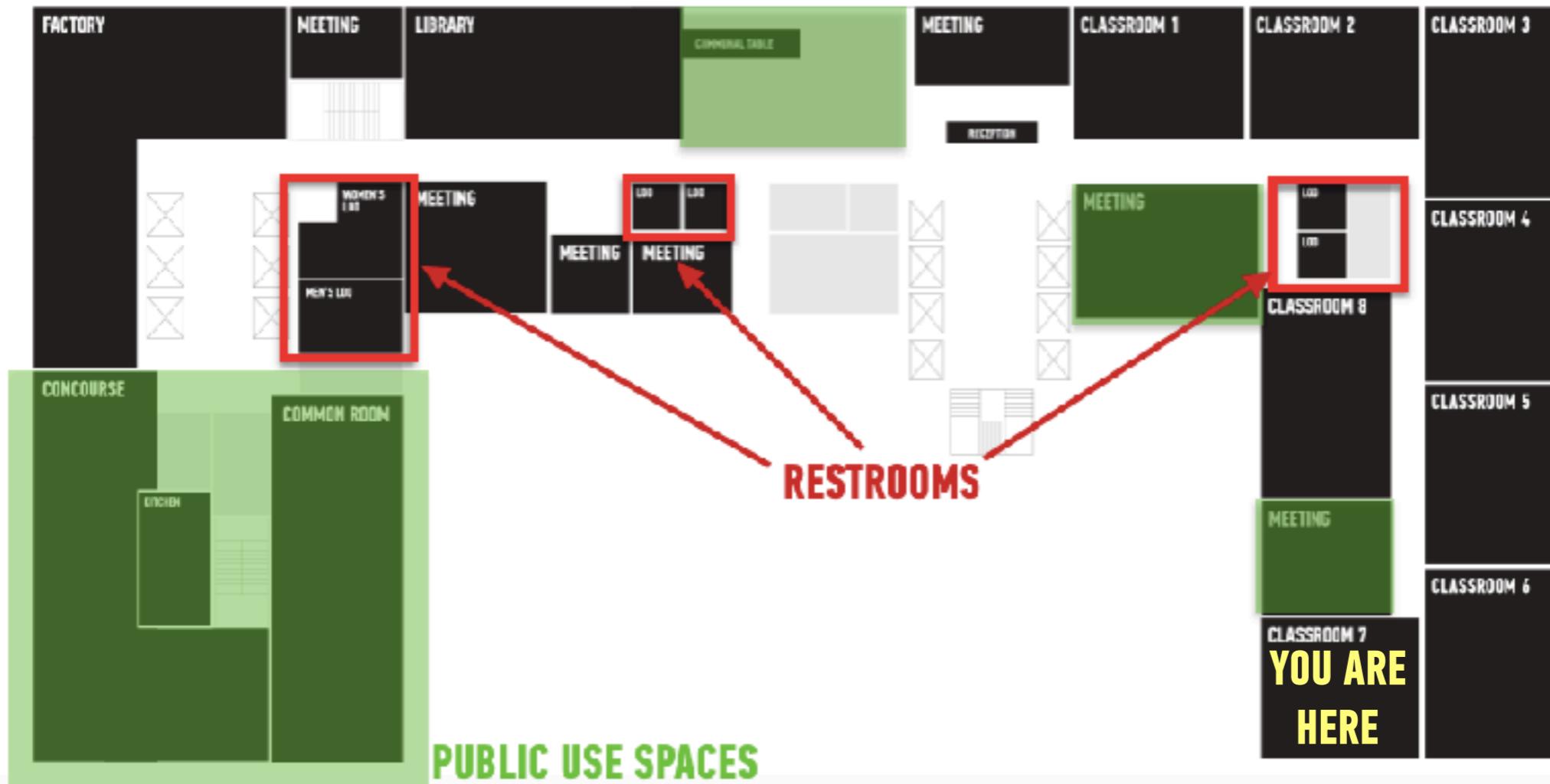
Come work on campus.

We're open:

8am - 10pm, Monday to Friday

10am - 6pm, Saturday and Sunday

# San Francisco



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

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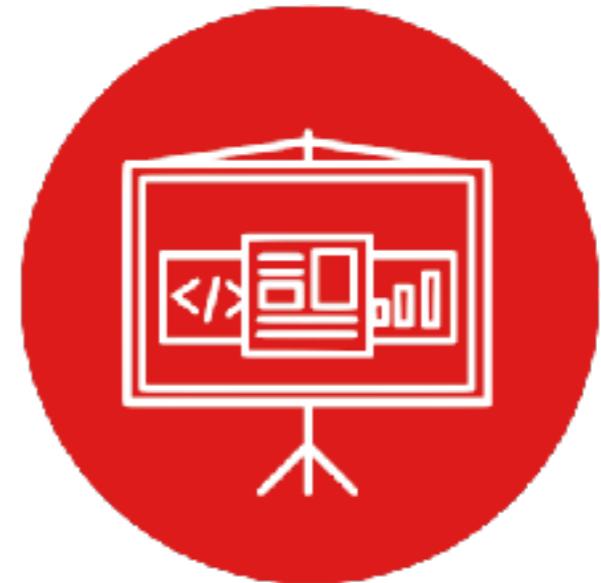
# Course dates

Front End Web Development 64

Course dates:

- Tuesdays and Thursdays, 6:30pm - 9:30pm
- May 8 - July 12

Holidays: none



# Classroom culture



## Let's all agree to:

- Come on time
- Participate
- Step up, step back
- Ask for help when you need it
- Build your skills by helping

# How to get a certificate



Complete 80% of the homework



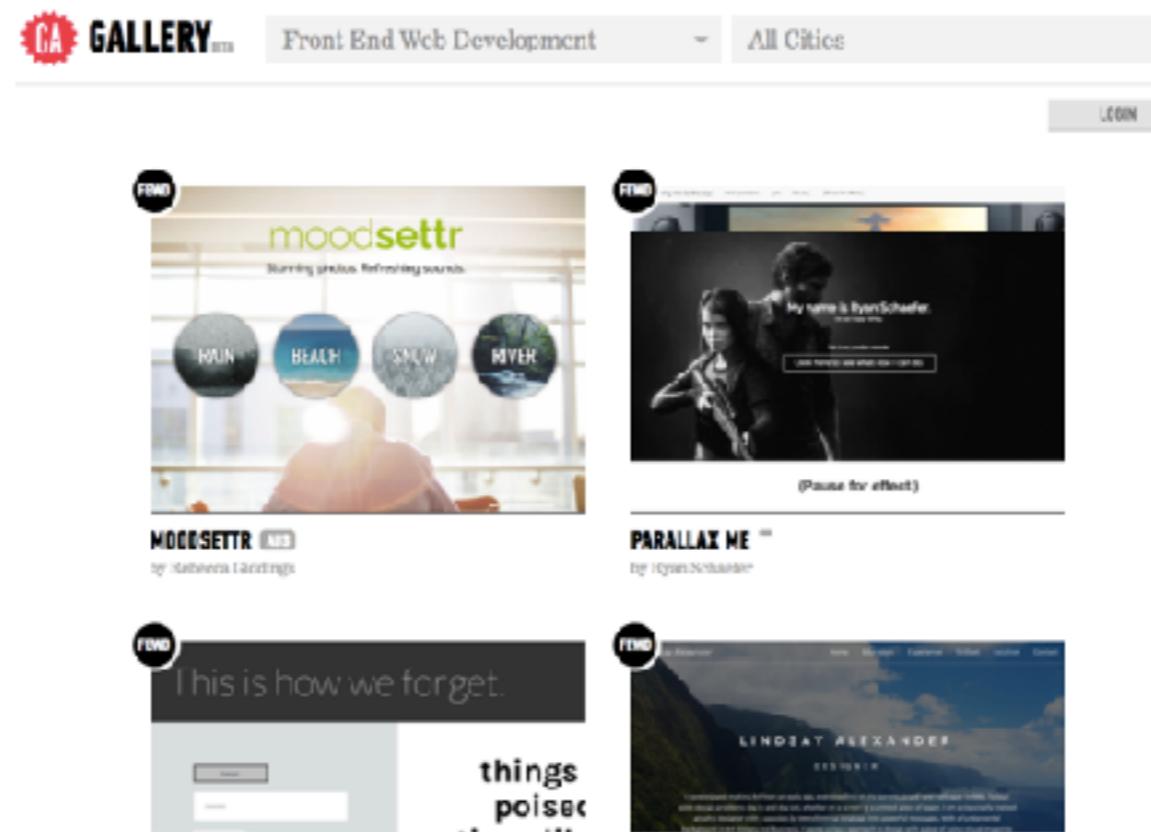
Don't miss more than 3 classes



Complete and present a final project



# Final Projects



<https://gallery.generalassembly.com/FEWD>

---

# **GA Values**

- **Grit**
  - **Teamwork**
  - **Curiosity**
  - **Resourcefulness**
  - **Generosity**
-

# GA Values

- **Grit**
- **Teamwork**
- **Curiosity**
- **Resourcefulness**
- **Generosity**



**GRIT**

We keep going when things get tough.

# GA Values

- Grit
- Teamwork
- Curiosity
- Resourcefulness
- Generosity



## TEAMWORK

We work together to meet our goals.

# GA Values

- ▶ **Grit**
- ▶ **Teamwork**
- ▶ **Curiosity**
- ▶ **Resourcefulness**
- ▶ **Generosity**



# GA Values

- Grit
- Teamwork
- Curiosity
- **Resourcefulness**
- Generosity



## RESOURCEFULNESS

We take advantage of the many resources around us and ask for help when we need it.

# GA Values

- **Grit**
- **Teamwork**
- **Curiosity**
- **Resourcefulness**
- **Generosity**

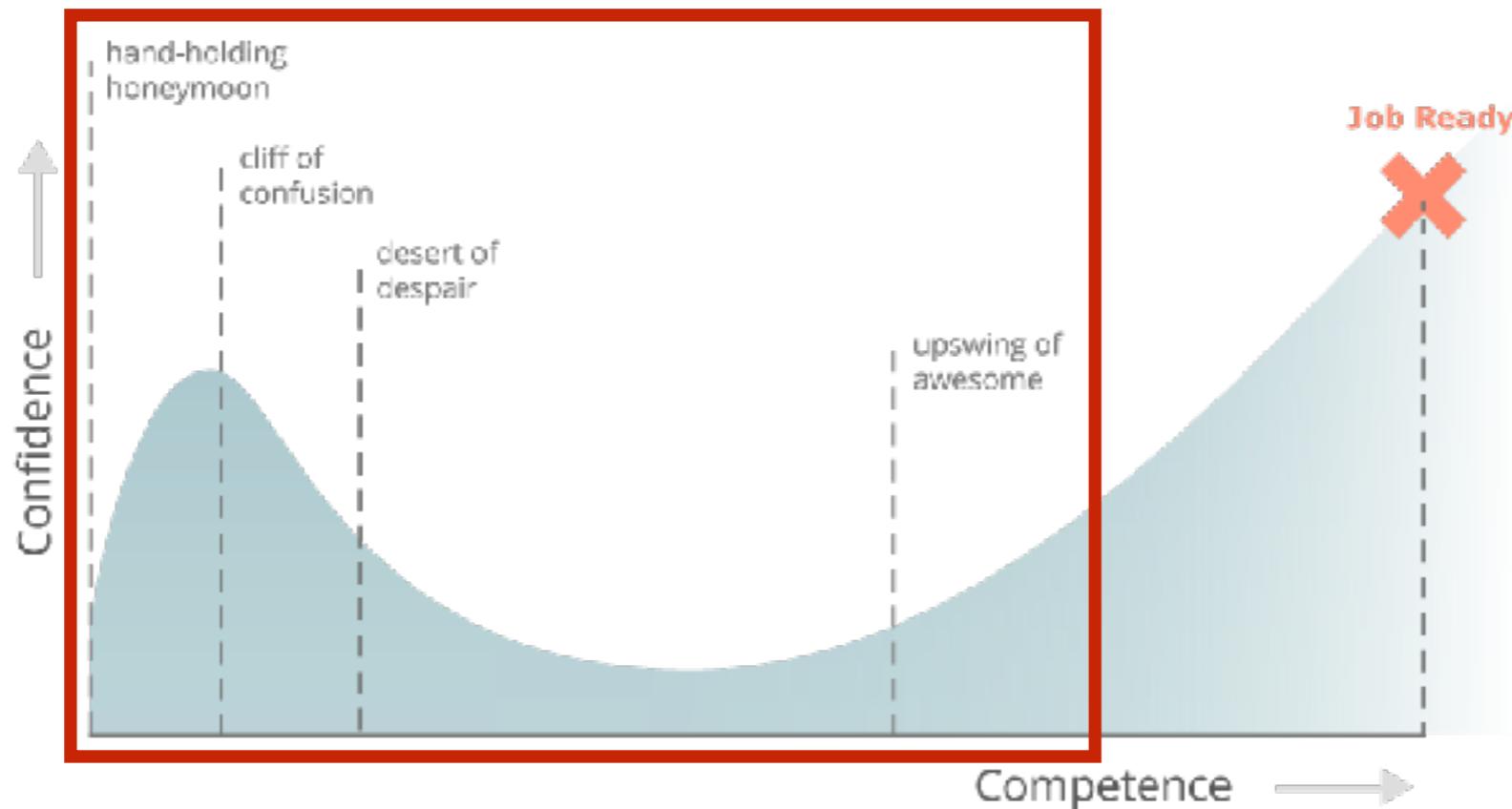


## GENEROSITY

We share our experiences, skills, and gifts to help those around us.

# Common Misconceptions: Learning Curve

Coding Confidence vs Competence



# Common Misconceptions: Googling



# Common Misconceptions: Outside Tutorials



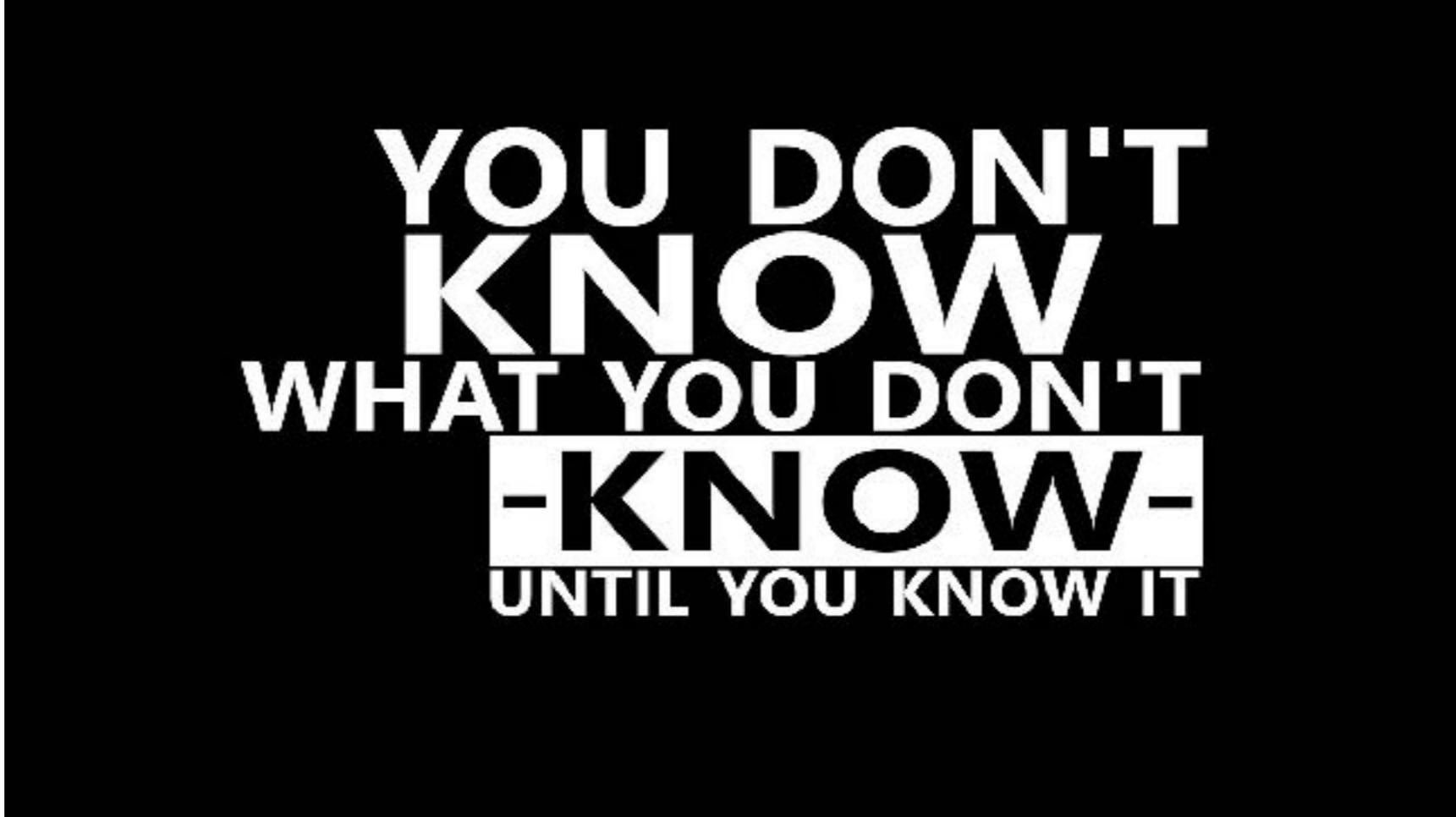
---

# Common Misconceptions: Course Content



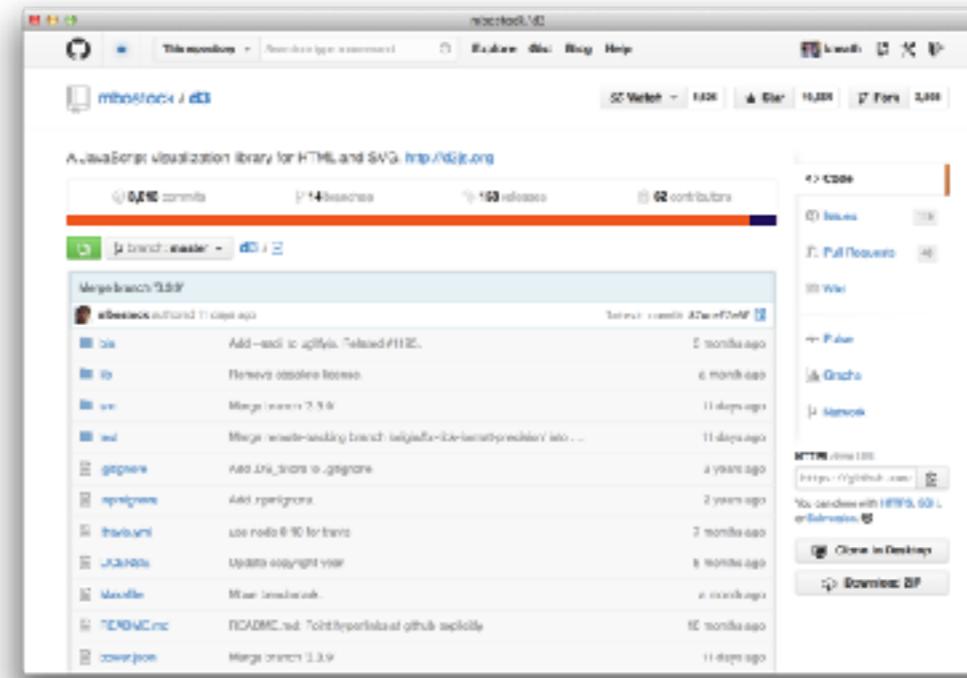
---

# Goals



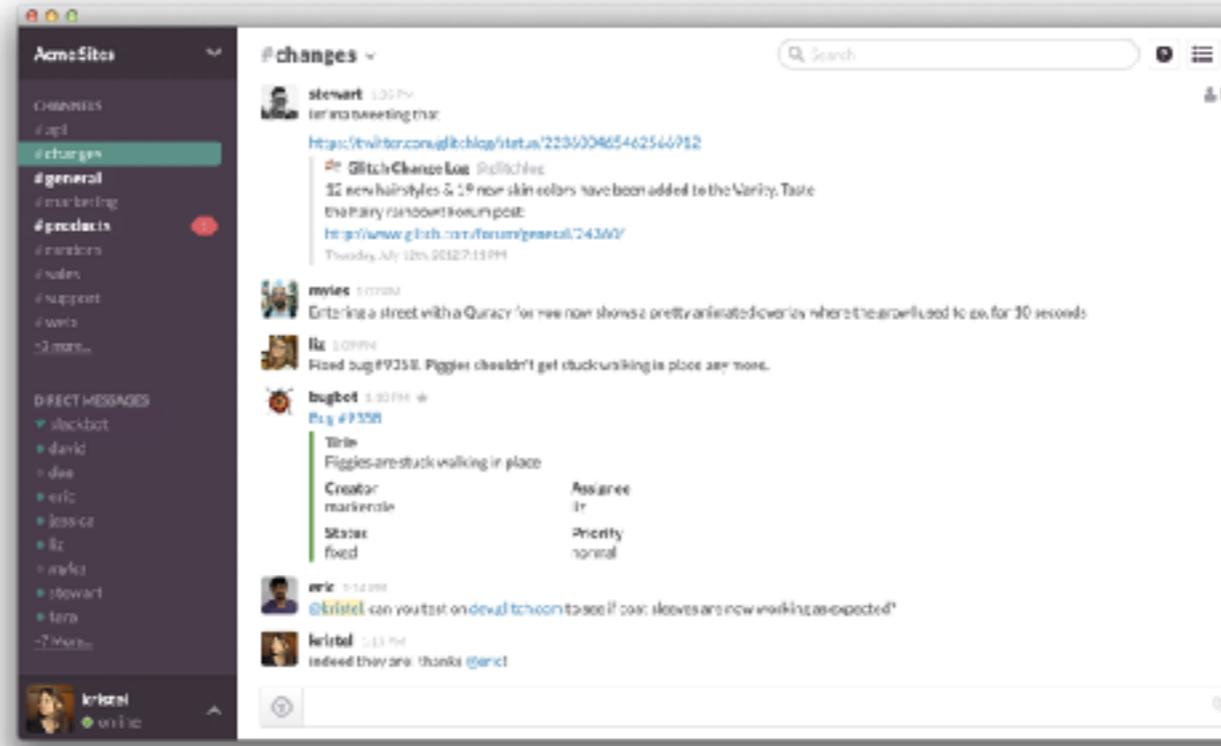
**YOU DON'T  
KNOW  
WHAT YOU DON'T  
-KNOW-  
UNTIL YOU KNOW IT**

# Github Enterprise



The class repo will have slide decks and handouts, as well as details on the class schedule and homework.  
You'll also use GitHub to submit homework starting in Week 2.

# Slack



All course communication with each other and instructional team will happen here.

---

# Setting up Slack

**Join the following channels:**

- **#classroom** - class activities happen here! Also contains all class materials
  - **#homework** - submit homework here & ask homework related questions
  - **#intros** - get to know your classmates!
  - **#resources** - share resources
  - **#curiosity** - ask things you want to know about
-

---

# Our Slackbots

- **Icebreakers** - asks you questions and displays answers in #intros
  - **Donut** - pairs you with another student every week
  - **HeyTaco** - allows you to give kudos to people who help you out!
    - There will be prizes ;)
-

---

# **Help Us Help You!**

## **Slack us 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
-

---

# Help Us Help You!

- 3 then me
  - 30 minutes - then #homework channel on Slack
  - [How to get help](#)
  - Acknowledge those who helped you!!
-

---

# Logistics

- Homework is due Sundays at 11:59pm
- Office hours: Tuesdays & Thursdays, 5:30pm - 6:30pm, Classroom 7
- **Course materials in #classroom Slack channel**
- [Course schedule and assignment outline](#) (subject to change)

---

**FEWD**

---

# LET'S GET STARTED!

**WHAT DOES “FRONT-END  
DEVELOPMENT” MEAN TO YOU?**

# WEEKLY OVERVIEW

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## WEEK 1

Intro to HTML / Intro to CSS

## WEEK 2

CSS Selectors / Layout

## WEEK 3

Layout Lab / Grid Systems & Wireframing

---

## **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.
  - ▶ Use CSS to add styles to a webpage.

# AGENDA

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Front-End vs. Back-End

Intro to Front-End Development

Intro to HTML & CSS

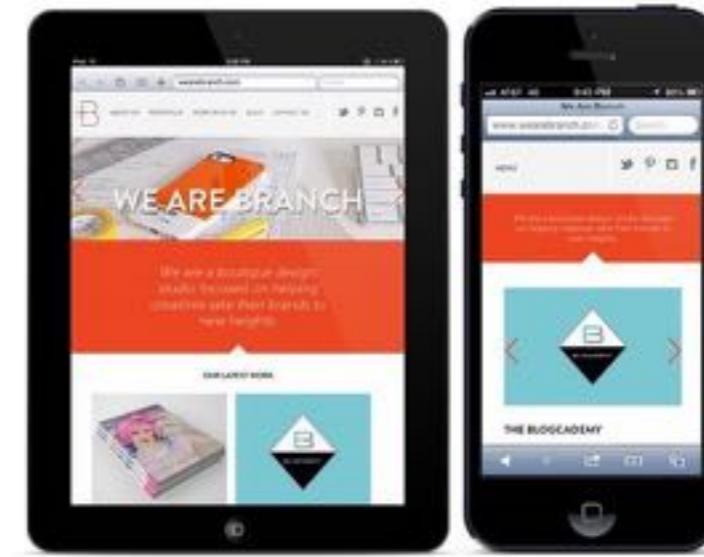
Lab Time

# 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

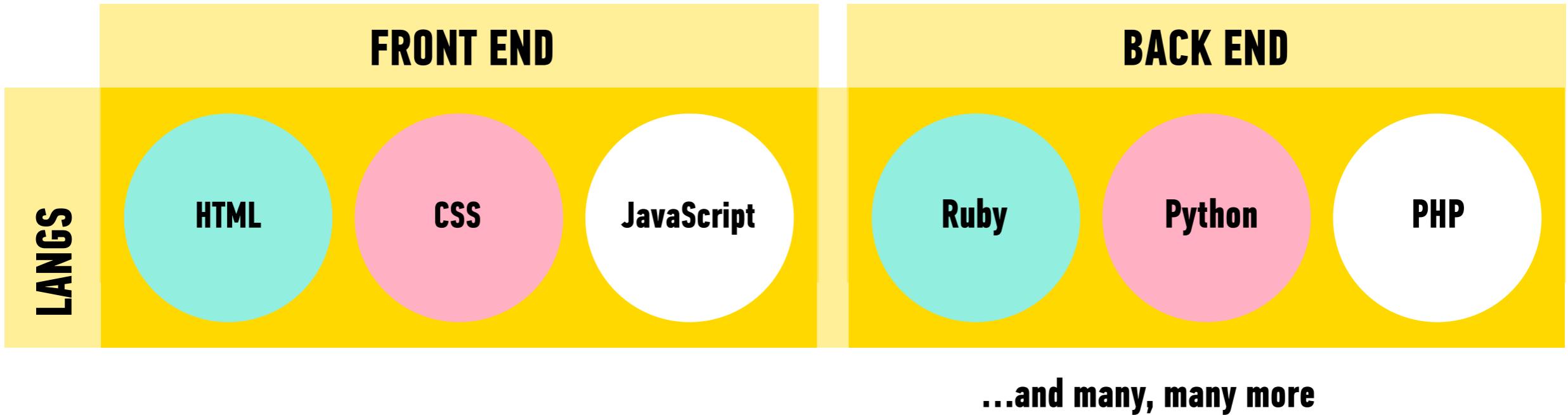
---

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



# FRONT END VS. BACK END

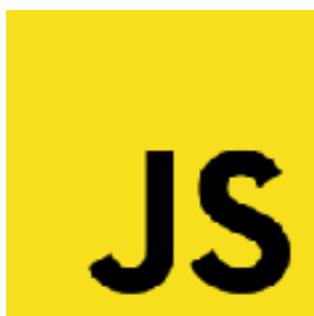
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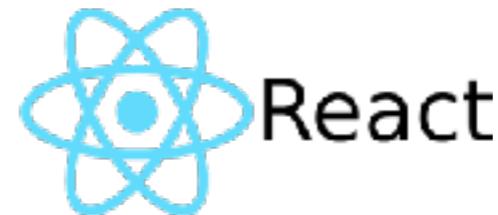
## FRONT END TOOLS IN THIS CLASS

---

### What we will learn



### What we will NOT learn



# 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. Discuss with a partner
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?

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## **CLIENT AND SERVER**

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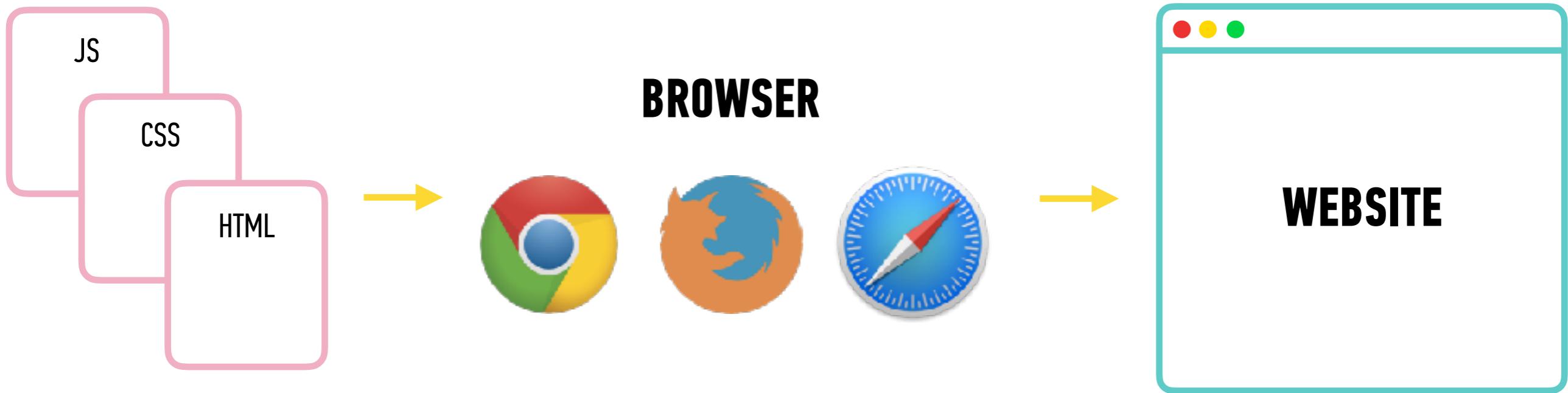
### **BROWSER**

(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.

# HOW HTML, CSS, & JS FIT TOGETHER

# THE FRONT END TRIO

## Separation of responsibilities

**HTML**

Defines the structure and content of a page.

**CSS**

Defines the style, layout, and some simple behaviors.

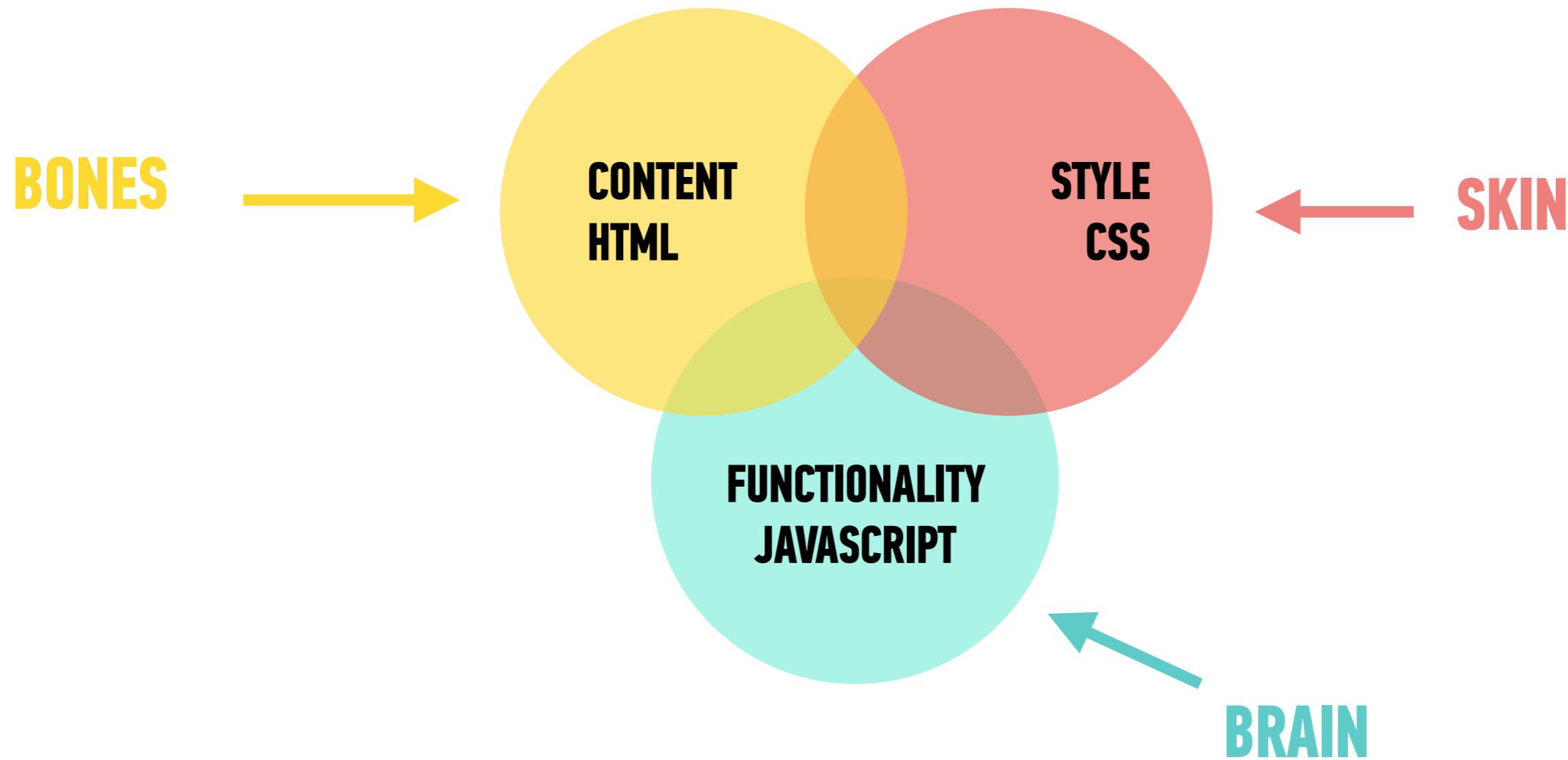
**JavaScript**

Allows for complex behaviors on a page.



## THE TRIPLE SCOOP: STRUCTURE, STYLE, BEHAVIOR

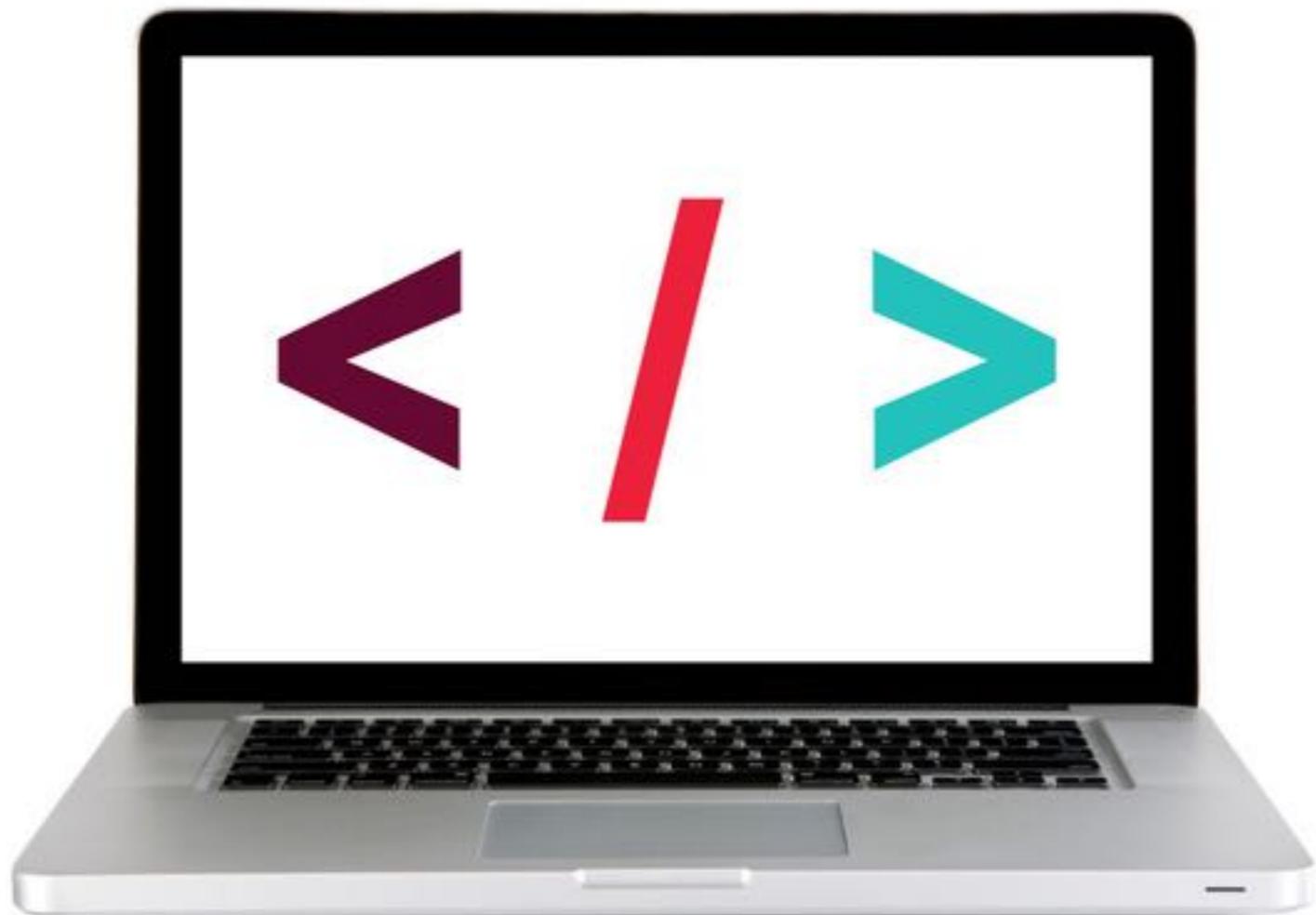
---



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## DEMO: BANANA CAT

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# ACTIVITY: DISTINGUISH BETWEEN HTML, CSS, AND JS

---



## DIRECTIONS

1. Visit <https://hoodline.com/news>.
2. Split up into groups of 2 or 3
3. Write down 1 example of HTML, 1 example of CSS, and one example of JS
4. We'll share with the class after!

# HTML BASICS

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## **HTML BASICS**

---

# **WHAT IS HTML?**

# WHAT IS HTML?

≡ SECTIONS Q SEARCH

U.S. INTERNATIONAL ☰

LOGIN ☰

# The New York Times

Monday, January 5, 2015 | Today's Paper | My Times | 20°F | Dow +1.80%

World U.S. Politics New York Business Opinion Technology Science Health Books 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 MACKIE with additional reporting by MICHAEL WALTERS

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 dramatic drop in activity that began shortly after the murder of two uniformed patrol officers.

126 Comments

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

By JONATHAN HILLARD

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.

880 Comments

## Afghan Cares for the Living by Carrying the Dead

By ZEYNEP AHMETZADEH

Malik Abdul Hakin, who has lost two sons, is now a funeral director and returning the bodies of both Taliban and government casualties.

## Home Schooling: More Pupils, Less Regulation



PHOTOGRAPH BY ERIC R. CORNELL/THE NEW YORK TIMES

### The Opinion Pages

When Skepticism Counts  
Novelist David Bullock 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 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: Shifting Politics on the Death Penalty

Op-Ed: Losing the Fight Against Tuberculosis

### Watching

201 A judge in Wisconsin ordered a trial for Dustin Diamond, best known as Screech from "Saved by the Bell," on charges stemming from a bar fight on Christmas night.  
By MILWAUKEE JOURNAL SENTINEL



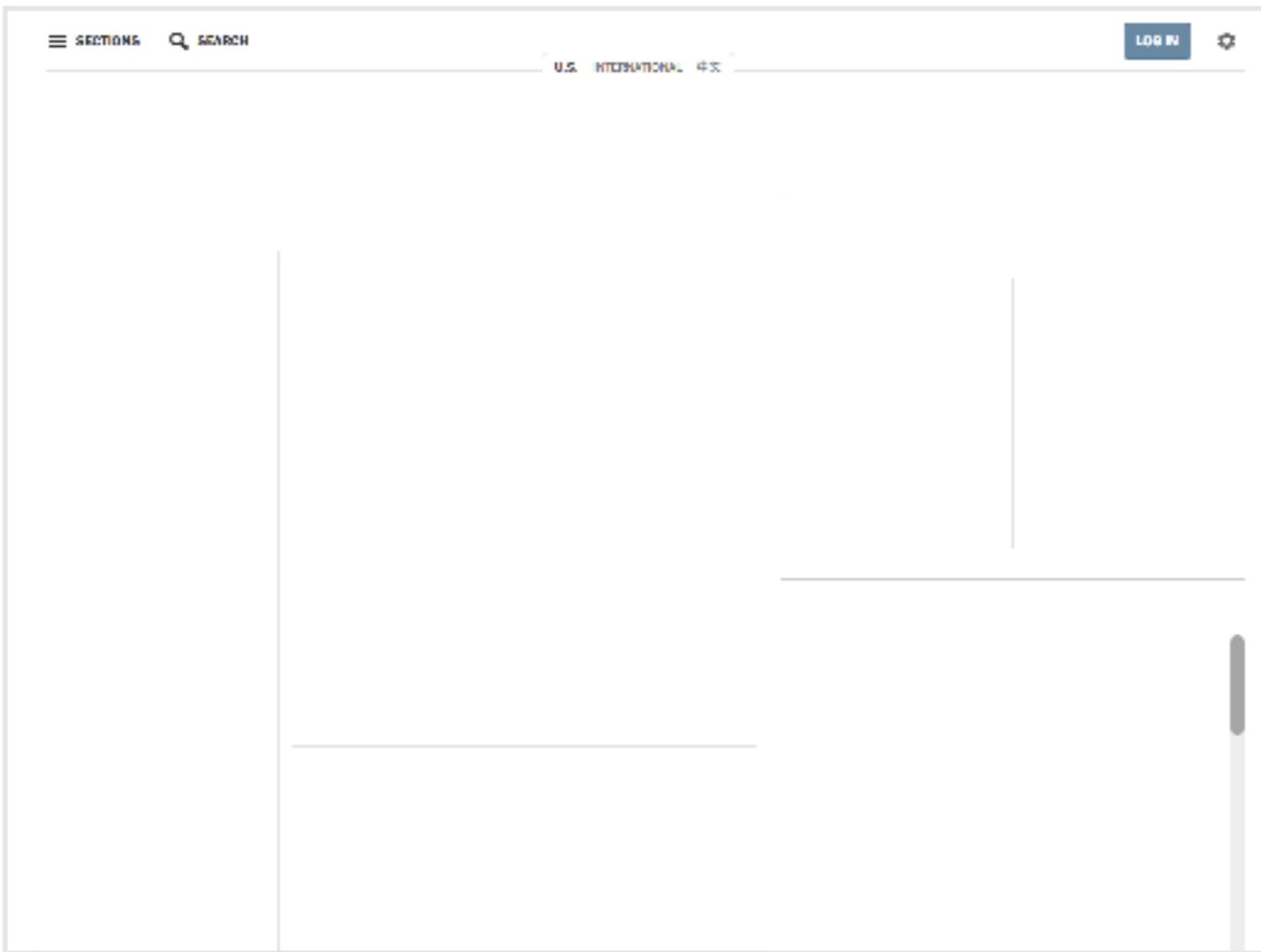
201 Markets tumbled in Europe and the U.S. as the cost of oil fell, rippling around the world.  
By THE NEW YORK TIMES

201 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 numbers.  
By LOS ANGELES TIMES



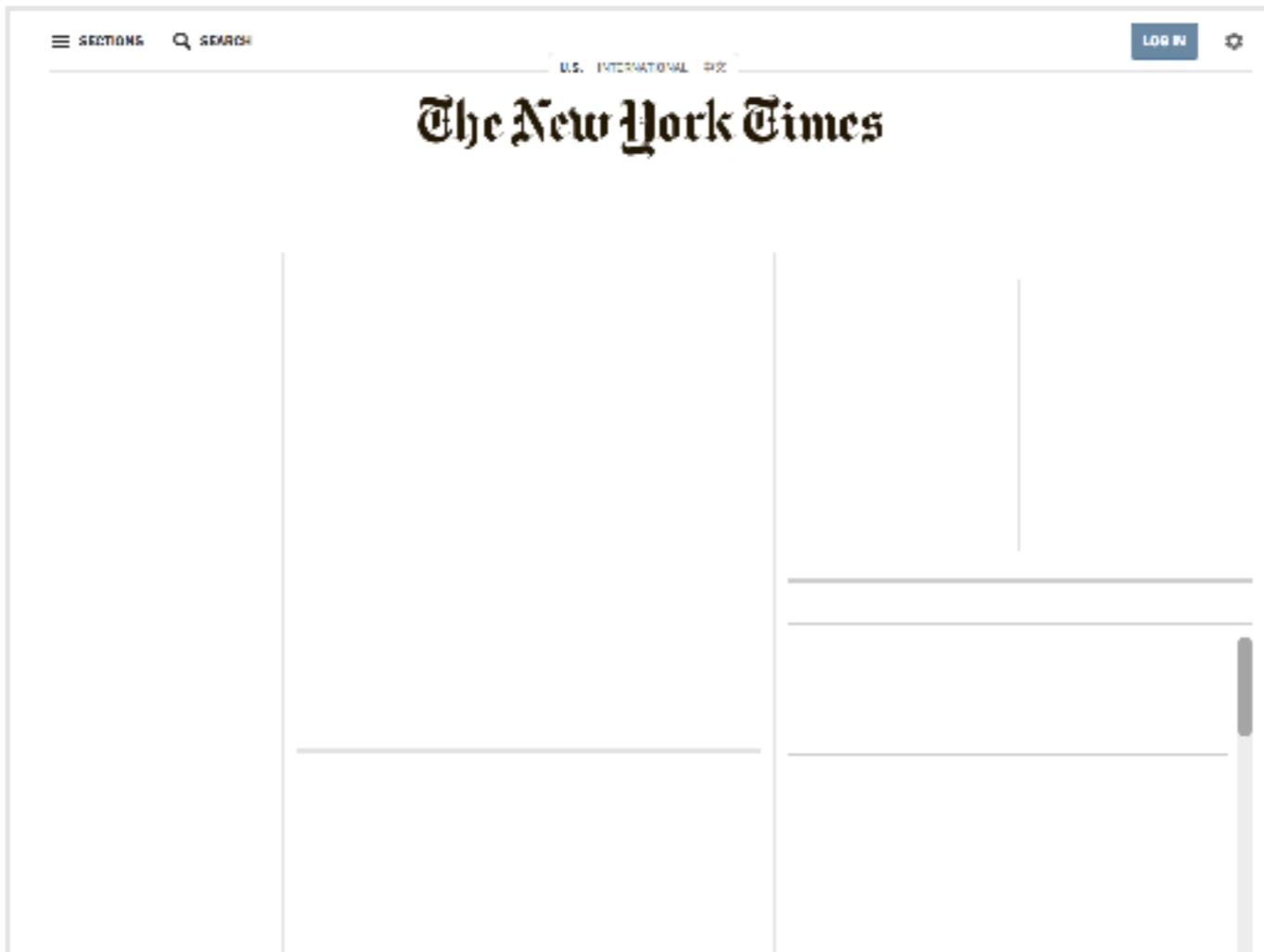
# WHAT IS HTML?

---



# WHAT IS HTML?

---



# WHAT IS HTML?



The screenshot shows the front page of The New York Times website. At the top, there is a navigation bar with 'SECTIONS' and a search icon. Below the navigation is a language selector showing 'U.S.', 'INTERNATIONAL', and '简体中文'. On the right side of the header are 'LOG IN' and a gear icon. The main title 'The New York Times' is centered in a large, serif font.

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

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

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

Afghan Cares for the Living by Carrying the Dead

Home Schooling: More Pupils, Less Regulation

The Opinion Pages

When Skepticism Counts      The Central Crisis in New York Education

Watching

# WHAT IS HTML?

≡ SECTIONS    SEARCH

U.S. INTERNATIONAL 中文

**The New York Times**

Monday, January 5, 2015    Today's Paper    Video    36°F    Dow +1.80%

---

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

By J. DAVID GOODMAN and AL BAKER 53 minutes ago

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.

208 Comments

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

By CARL HULSE 12:07 PM ET

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.

830 Comments

### 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 ENID NEMY and WILLIAM McDONALD

### Afghan Cares for the Living by Carrying the Dead

By AZAM AHMED 12:07 PM ET

Malik Abdul Hakim, who has lost two sons, is revered 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.

---

**Watching**

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

≡ SECTIONS    SEARCH

U.S. INTERNATIONAL 中文

LOG IN    ⚙

# The New York Times

Monday, January 5, 2015    Today's Paper    Video    36°F    Dow +1.80% ▲

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Fred R. Conrad/The New York Times

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By ENID NEMY and WILLIAM McDONALD

## The Opinion Pages

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The Los Angeles Times >



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U.S. INTERNATIONAL 中文

LOG IN

# The New York Times

Monday, January 5, 2015    Today's Paper | in Video | ☰ 20°F    Dow +0.80%

World U.S. Politics New York Business Opinion Technology Science Health Books 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 HARRIS JR. Updated 10:00 AM ET

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 dramatic drop in activity that began shortly after the murder of two uniformed patrol officers.

126 comments

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

By CANDICE HILLING

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.

140 comments

## Afghan Cures for the Living by Carrying the Dead

By ZAHRA AHMAD TORAYI

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

## Home Schooling: More Pupils, Less Regulation



PHOTO: ERIC R. CARLSON/THE NEW YORK TIMES

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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 KELLY HENRY and WILLIAM MEDINA

### When Skepticism Counts

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

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OP-ED COLUMNISTS

Blow: Privilege of 'Arrest Without Incident'

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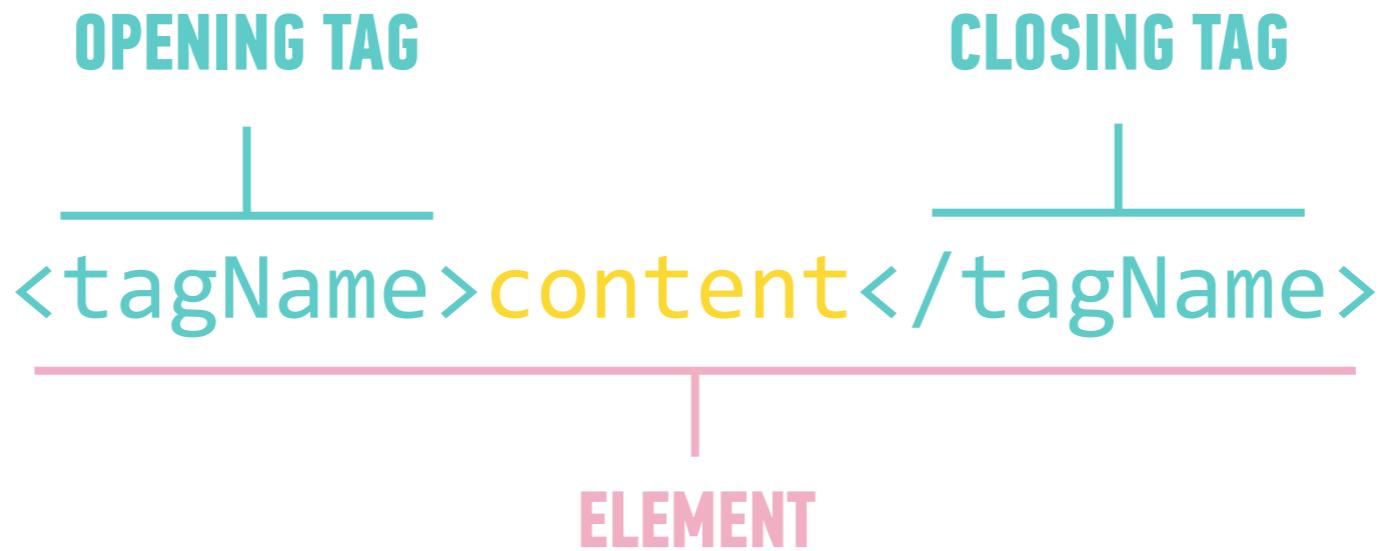
The Los Angeles Times

# STRUCTURAL MARKUP

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## HOW DO I WRITE HTML?

---



## 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>

## 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	

---

## STRUCTURAL TAGS — UNORDERED LISTS

---

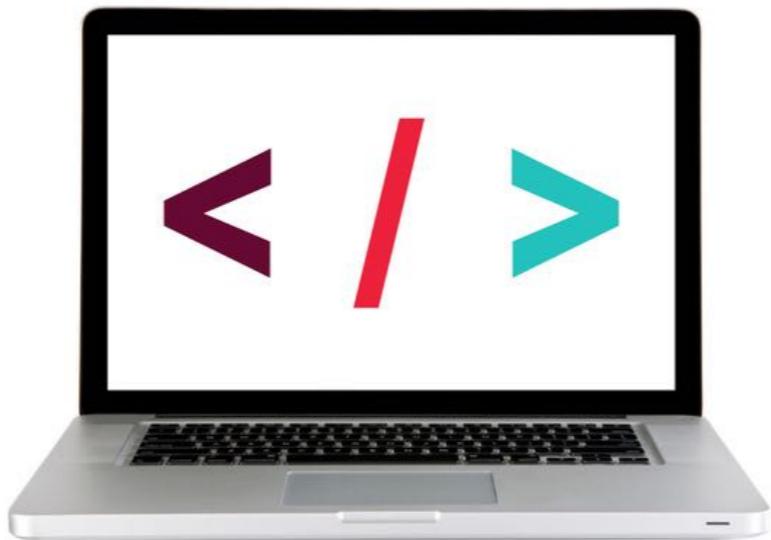
Elements can be nested inside other elements.

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

---

## DEMO: HTML STRUCTURAL MARKUP

---



**Create a free CodePen Account**

**<https://codepen.io/>**

---

## WHY CODEPEN?

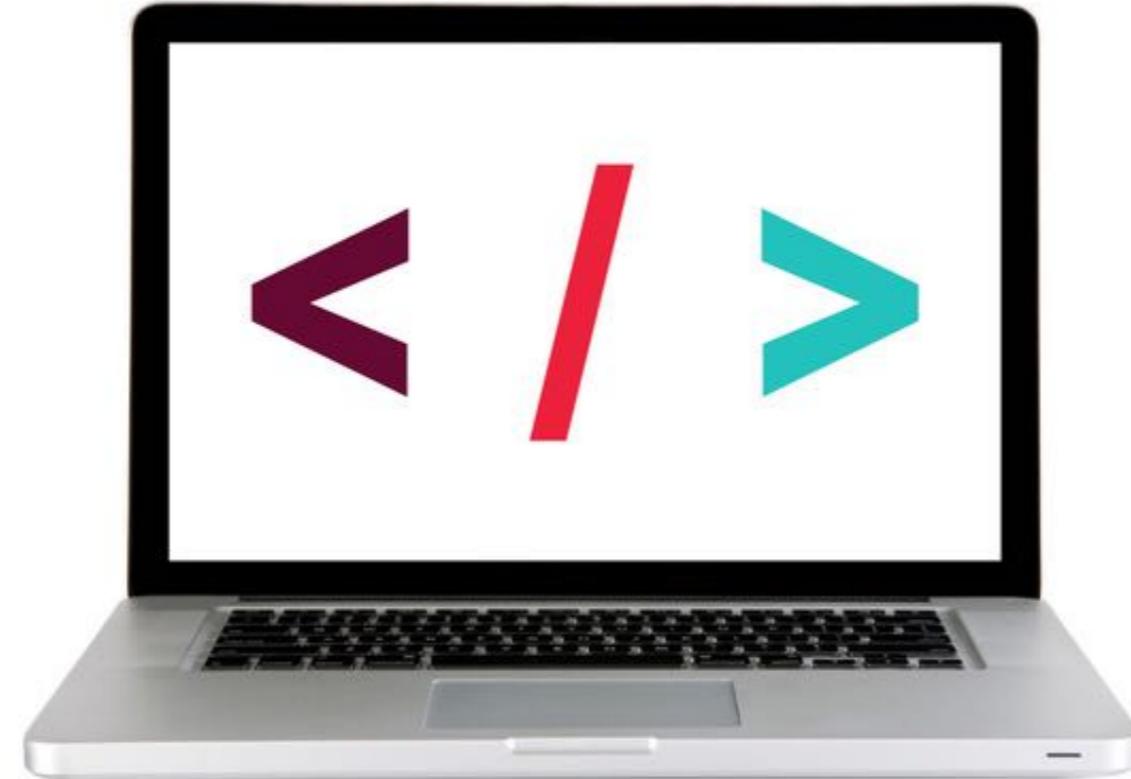
---

- ▶ Allows you to play around with HTML/CSS/JS in real time
- ▶ No computer setup
- ▶ Inspiration - look at other peoples' cool projects
- ▶ Copy and save “pens” that you like
- ▶ We'll be using it for **in-class demos and exercises**

---

## DEMO: HTML STRUCTURAL MARKUP

---



<https://codepen.io/svodnik/pen/VxrRYP>

# ATTRIBUTES — LINKS AND IMAGES

---

## WHAT IF I WANT TO ADD AN IMAGE OR LINK?

---

We could try something like...

<a>Click here</a>

But how would the website know **where** to link to?

<img />

But how would the website know **what** to display?

---

## HTML ELEMENTS HAVE ATTRIBUTES!

---

```
<tagName attribute="attributeValue">content</tagName>
```

---

## ATTRIBUTES — EXAMPLE

---

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

## ANCHORS (“LINKS”)

---

- ▶ 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

## IMAGES

---

### LINKING TO AN IMAGE IN MY WEBSITE FOLDER:

```

```

PATH TO IMAGE FILE

TEXT DESCRIPTION

### LINKING TO AN IMAGE ONLINE

```

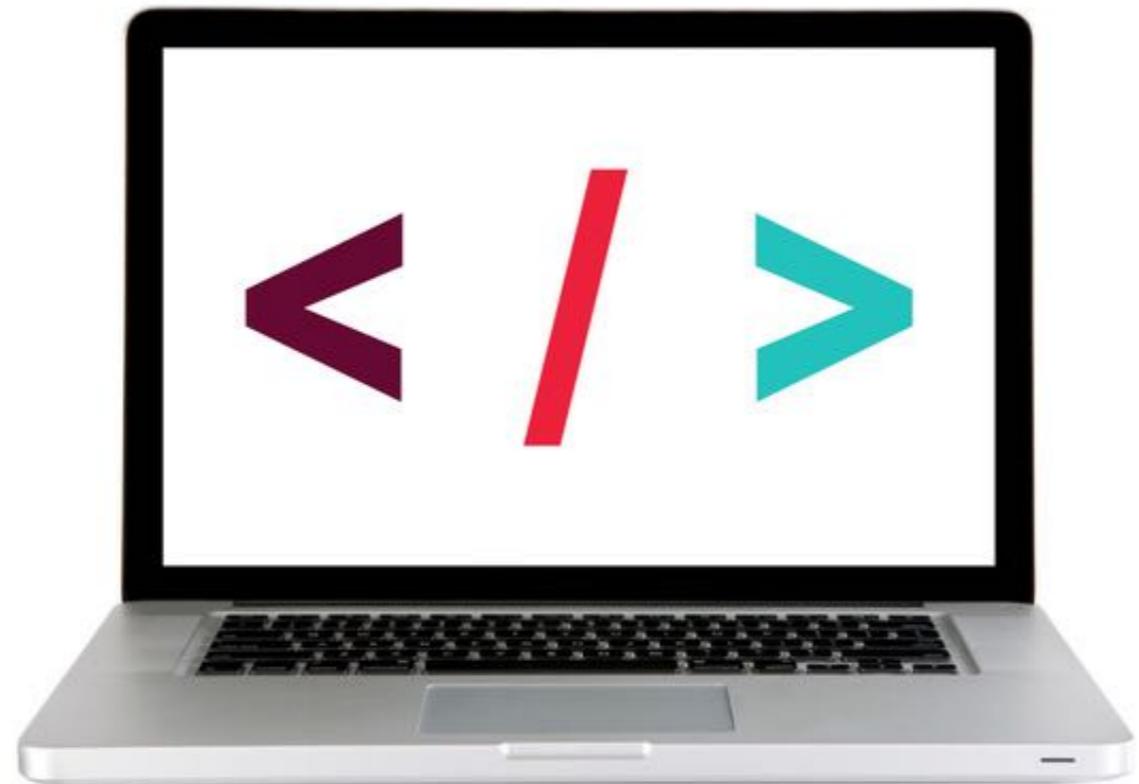
```

PATH TO IMAGE FILE INCLUDING HTTP OR HTTPS

---

## DEMO: HTML ATTRIBUTES, LINKS, AND IMAGES

---



<https://codepen.io/svodnik/pen/wjPOaX>

# LAB: PRACTICE WRITING HTML

---



## 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.

# CSS BASICS

---

**HTML**

---

# WHAT IS CSS?

# WHAT IS CSS?

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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 decayed 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, WASC, and the major browser creators.

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

MID CENTURY  
MODERN  
*by* Andrew Lehman

GARMENTS  
*by* Dan Mill

STEFFI  
*by* Steffen Kneller

APOTHECARY  
*by* Trent Walton

<https://www.csszengarden.com/>

# WHAT IS CSS?

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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;  
    line-height: 22px;  
}
```

Styles!

# COLOR

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

## 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.

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

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

# TYPEFACE TERMINOLOGY — PART 1

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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;
line-height	px value	line-height: 22px;

## TYPEFACE TERMINOLOGY — PART 2

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

# 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 available on that computer.

# ACTIVITY: ADD CSS TO YOUR HTML

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## DIRECTIONS

1. Revisit your [Codepen](#)
2. Write CSS to replicate [this mock](#)
3. Google anything you can't figure out. Be sure to include "html" or "css" in the search query.

BONUS: Write CSS to replicate [this advanced mock](#).

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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.
- ▶ Use CSS to add styles to a webpage.

# WEEKLY OVERVIEW

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## WEEK 1

Intro to HTML / Intro to CSS

## WEEK 2

CSS Selectors / Layout

## WEEK 3

Layout Lab / Grid Systems & Wireframing

# **Exit Tickets!**

**Class #1**