

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

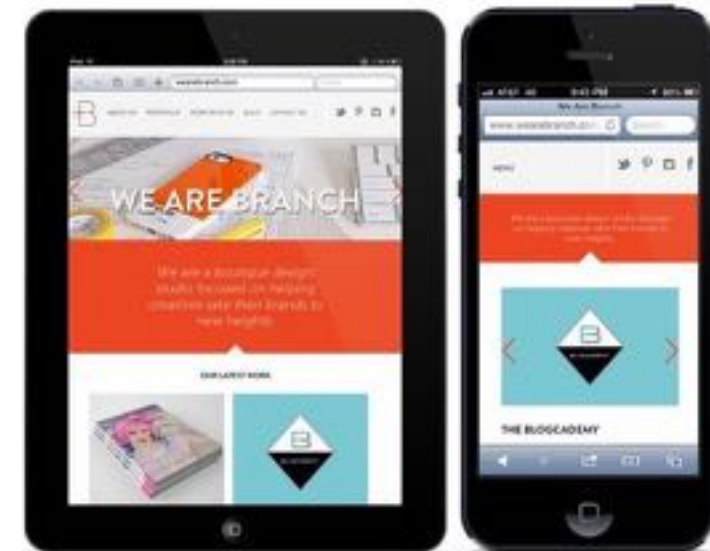
Lab Time

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

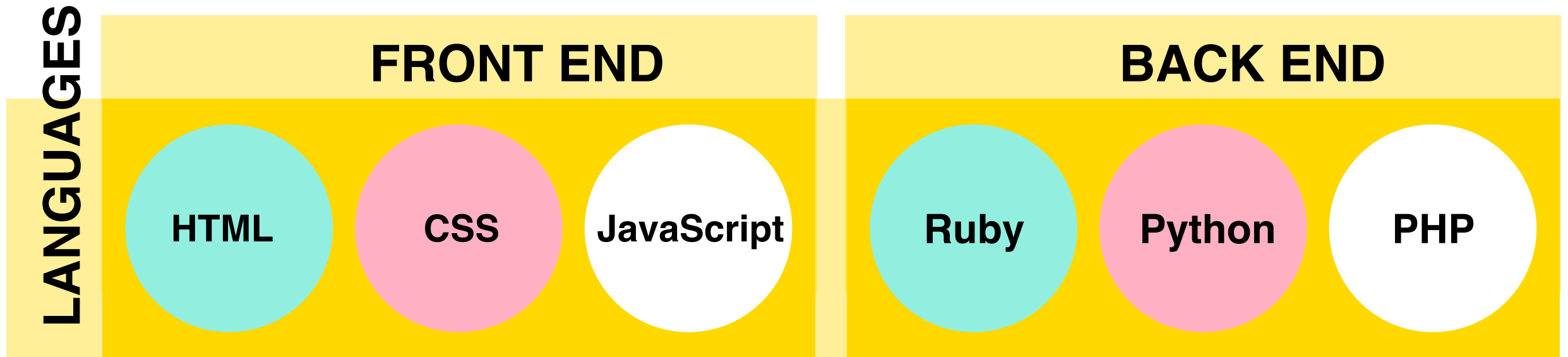


WEB PRODUCTION WORKFLOW — BACK END

- 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?

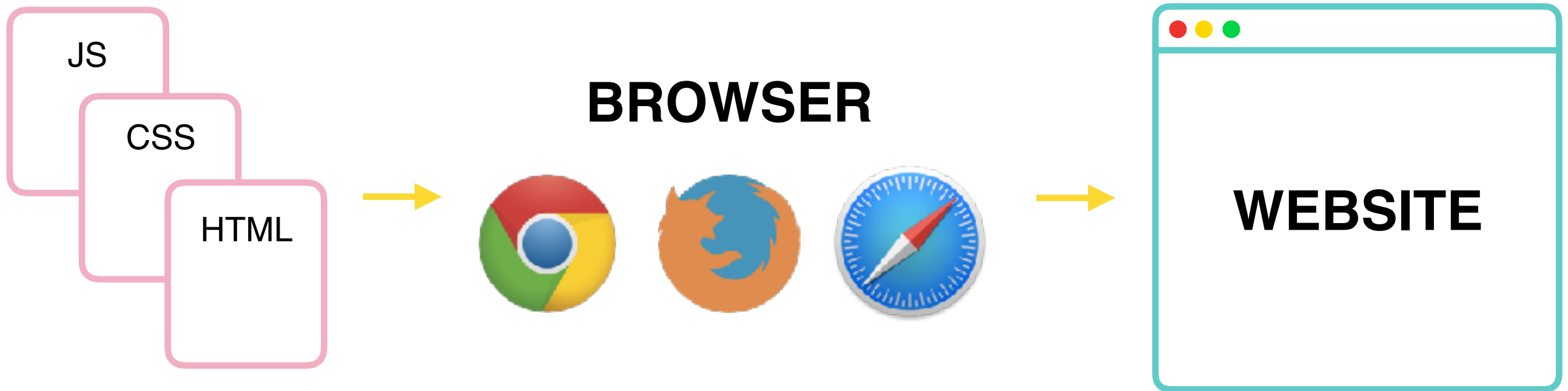
CLIENT AND SERVER

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...

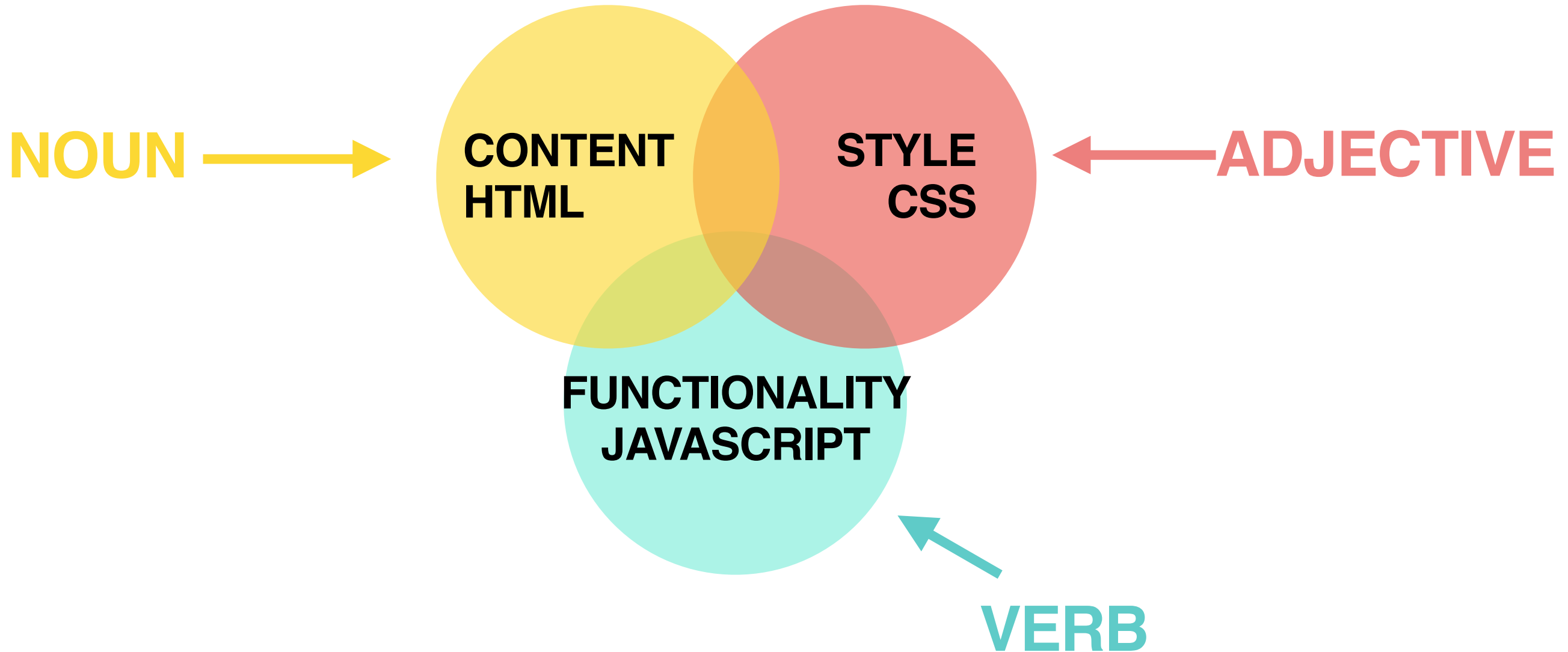
HTML

CSS

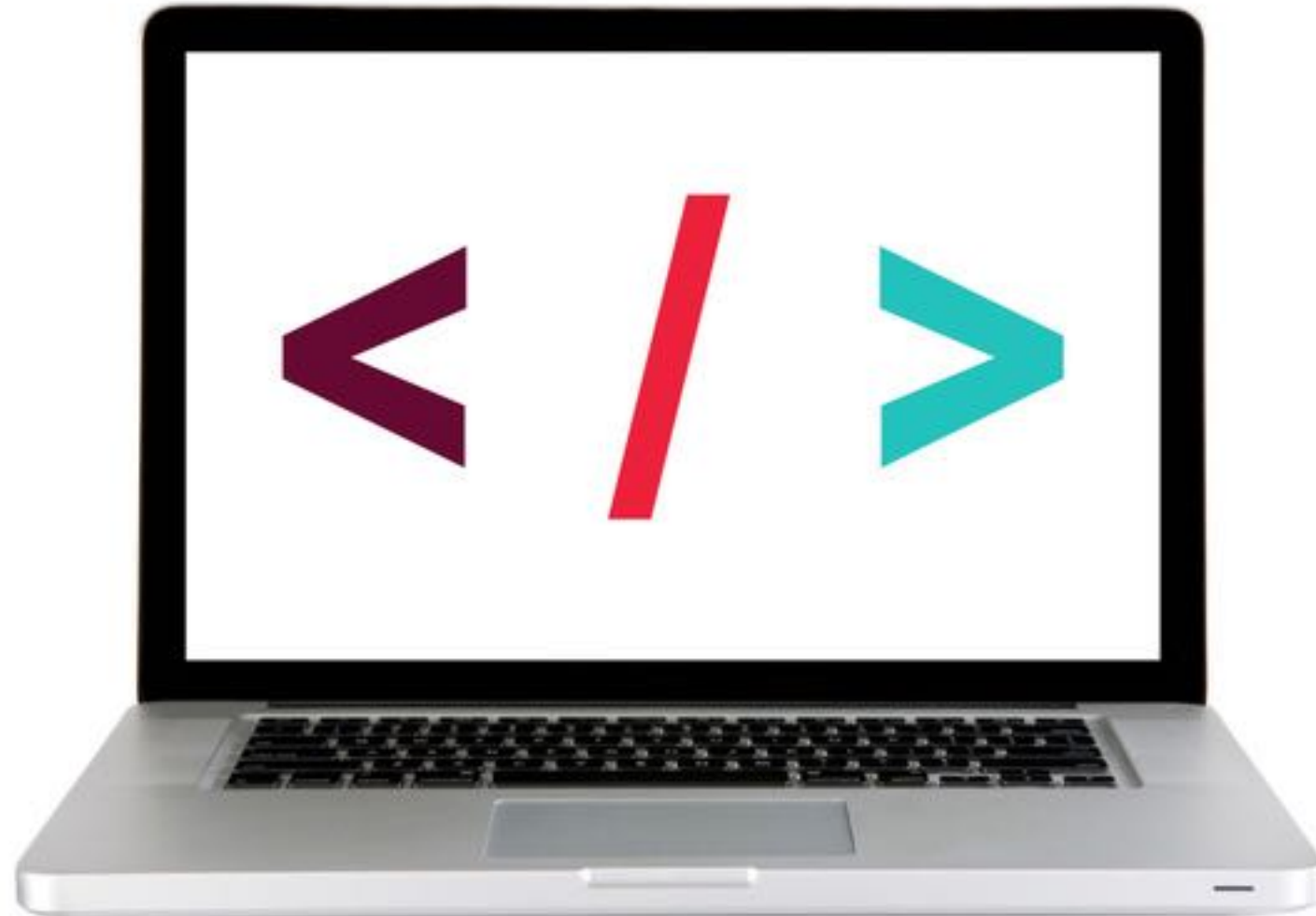
JavaScript



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 _____?

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WHAT IS HTML?

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The New York Times

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New York City Police Sharply Cut Arrests for a Second Week

By J. DAVID GOODMAN and AL HANCOCK 10:17 a.m. 1/5/16

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 EVAN W. MUELLER

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 DREYER 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

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

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.

1 Milwaukee Journal Sentinel

10M

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

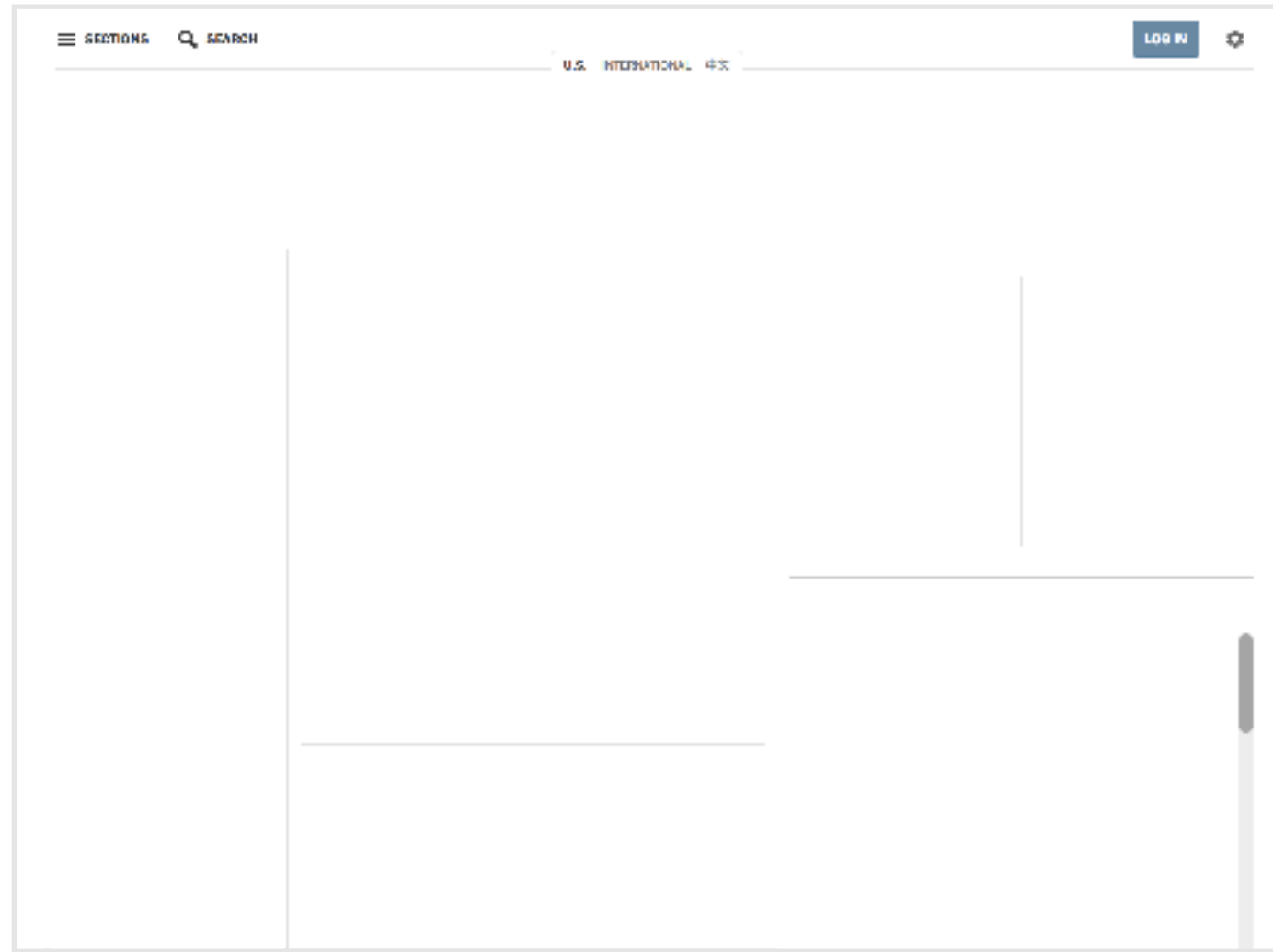
1 The New York Times

25M

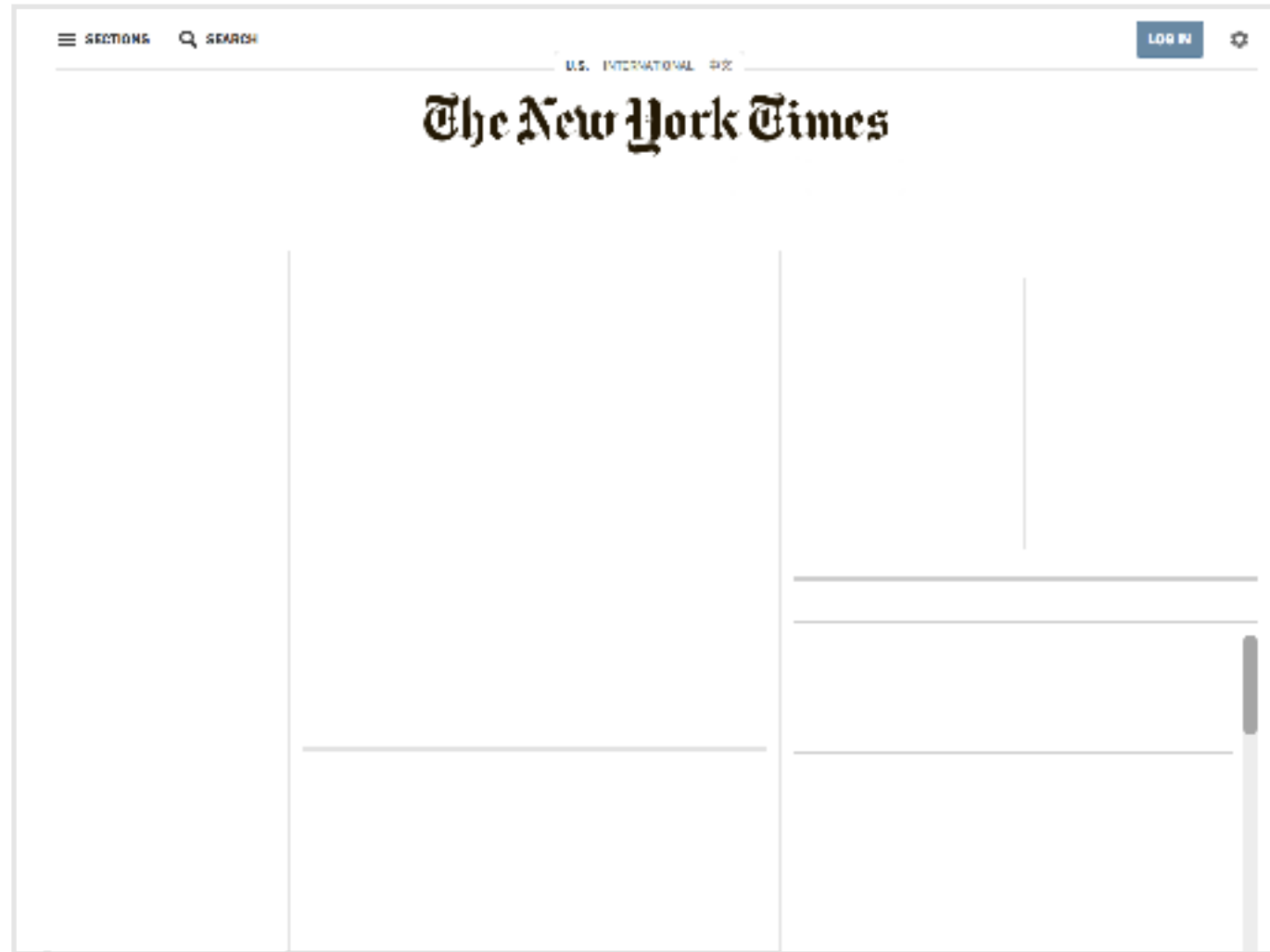
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1 The Los Angeles Times

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The New York Times

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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](#)

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By CHAD HUIZIG

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Photo: R. Corrad/The New York Times

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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

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

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HOMEWORK

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EXIT TICKETS