

WELCOME TO INTRO TO CODING!

- › Log into the wifi network GA-GUEST. The password is: yellowpencil
- › Download Sublime Text 3
- › Visit the dashboard and keep it open: saraheholden.com/intro_to_coding
- › Optional: Create a free CodePen account so you can save the exercise we'll be working on today.

INTRO TO CODING

LEARNING OBJECTIVES

- › Describe the role of HTML, CSS and JavaScript in web development.
- › Use HTML to add structure to a basic webpage
- › Use CSS to add styles to a webpage
- › Describe the various opportunities to continue learning web-development

WHAT IS A WEBSITE?

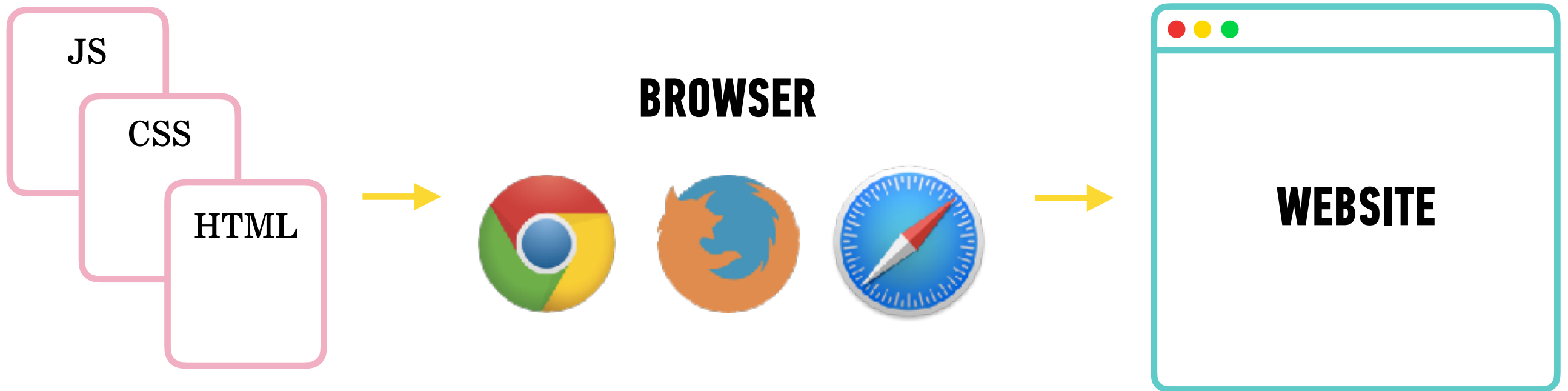
CLIENT AND SERVER

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.

HTML, CSS and JAVASCRIPT

FRONT END IS MADE UP OF...

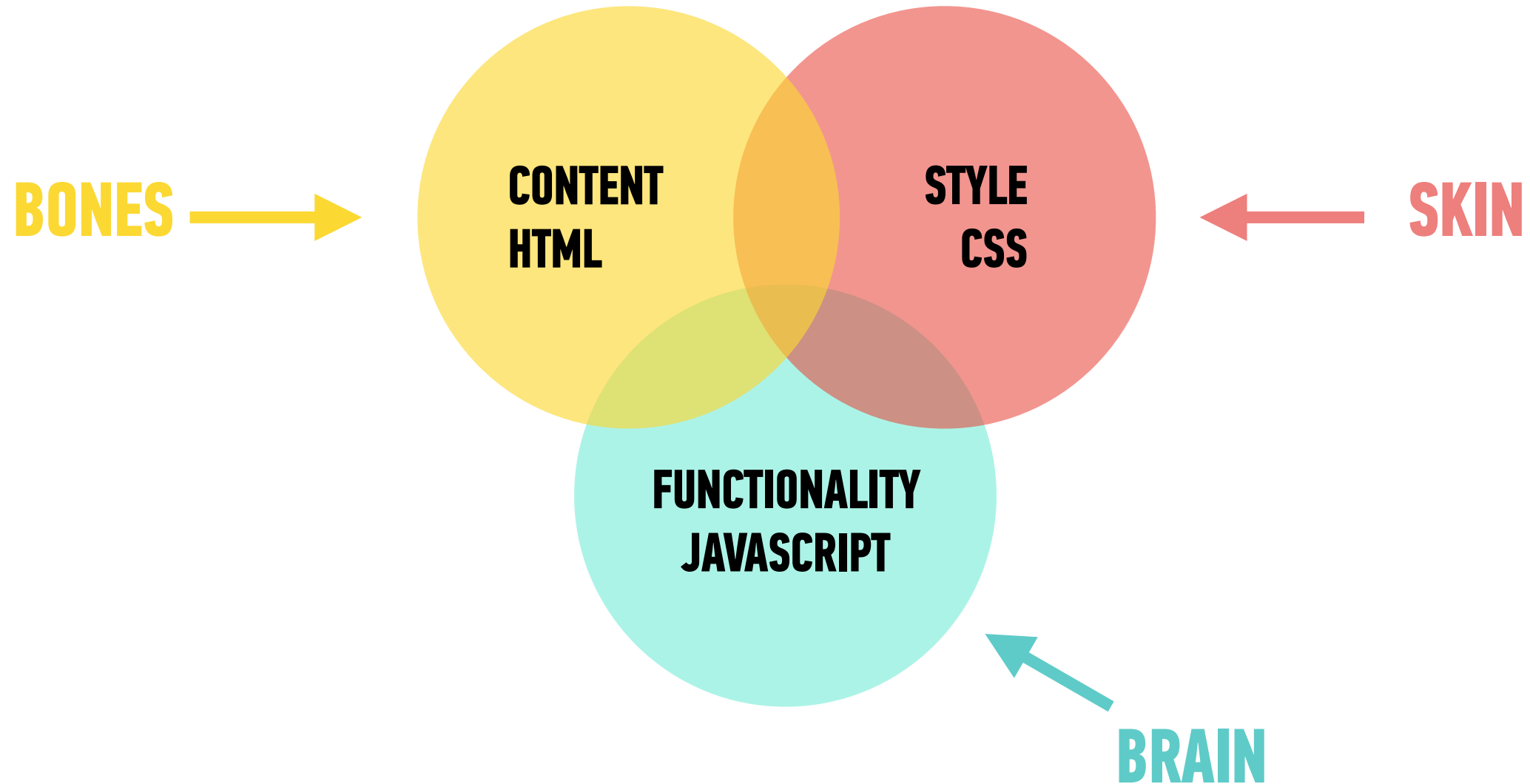
HTML

CSS

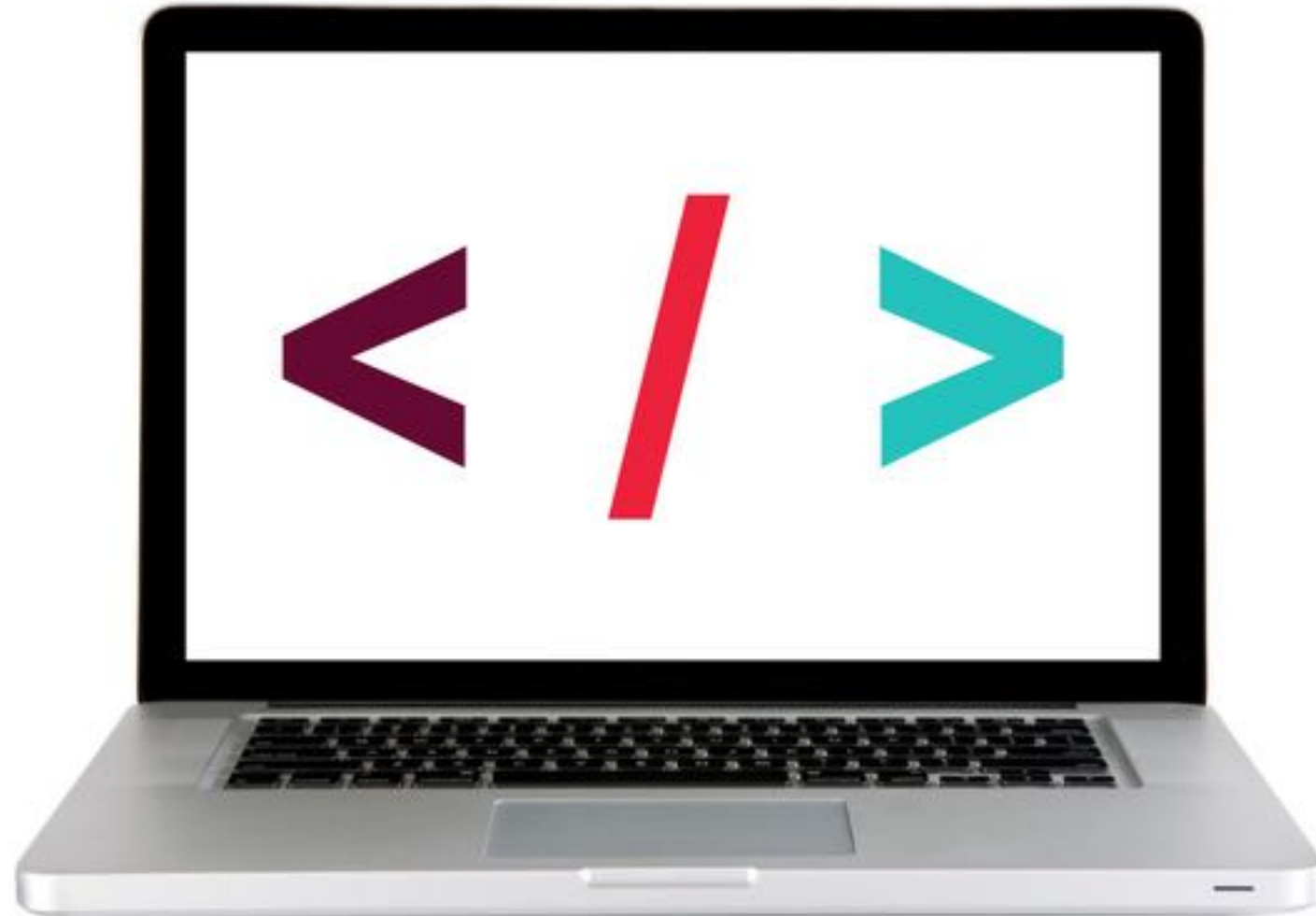
JavaScript



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) with a partner.
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 _____?

INTRO TO HTML

WHAT IS HTML?

SECTIONSSEARCH

U.S.INTERNATIONAL

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The New York Times

Monday, January 9, 2016Today's Paperin VideoNYTDown 0.80%

WorldU.S. PoliticsNew YorkBusinessOpinionTechnologyScienceHealthSportsArtsStyleReal EstateHomeTravelMagazinesReal Estate

New York City Police Sharply Cut Arrests for a Second Week

By J. DAVID GOODMAN and AL HANCOCK 10:10 a.m. 1/9/16

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.

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 DERRY and WILLIAM McDONALD

Afghan Cares for the Living by Carrying the Dead

By GUYAN SIMPSON 12:45 p.m. 1/9/16

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

12PM

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

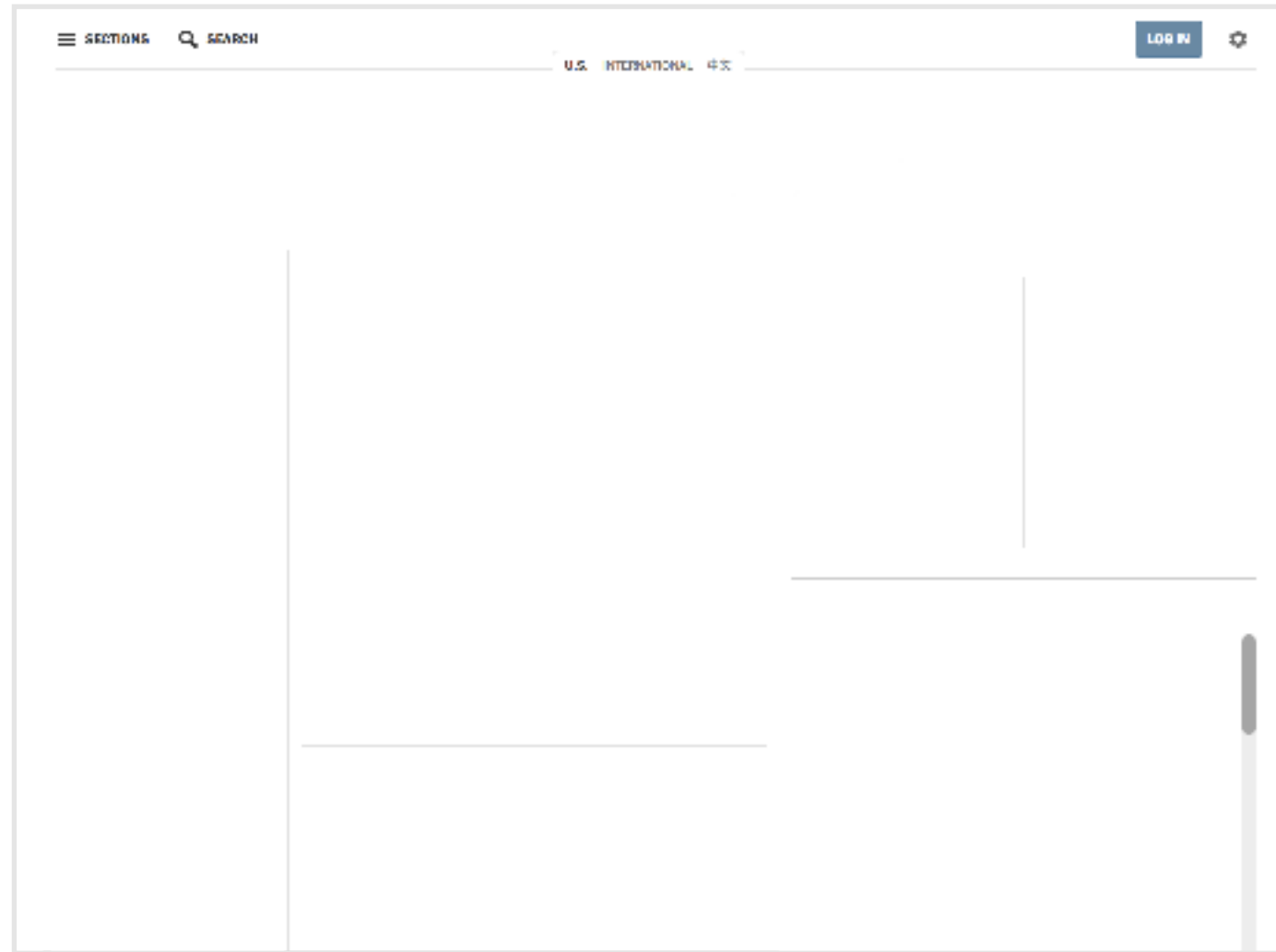
1 The New York Times

2PM

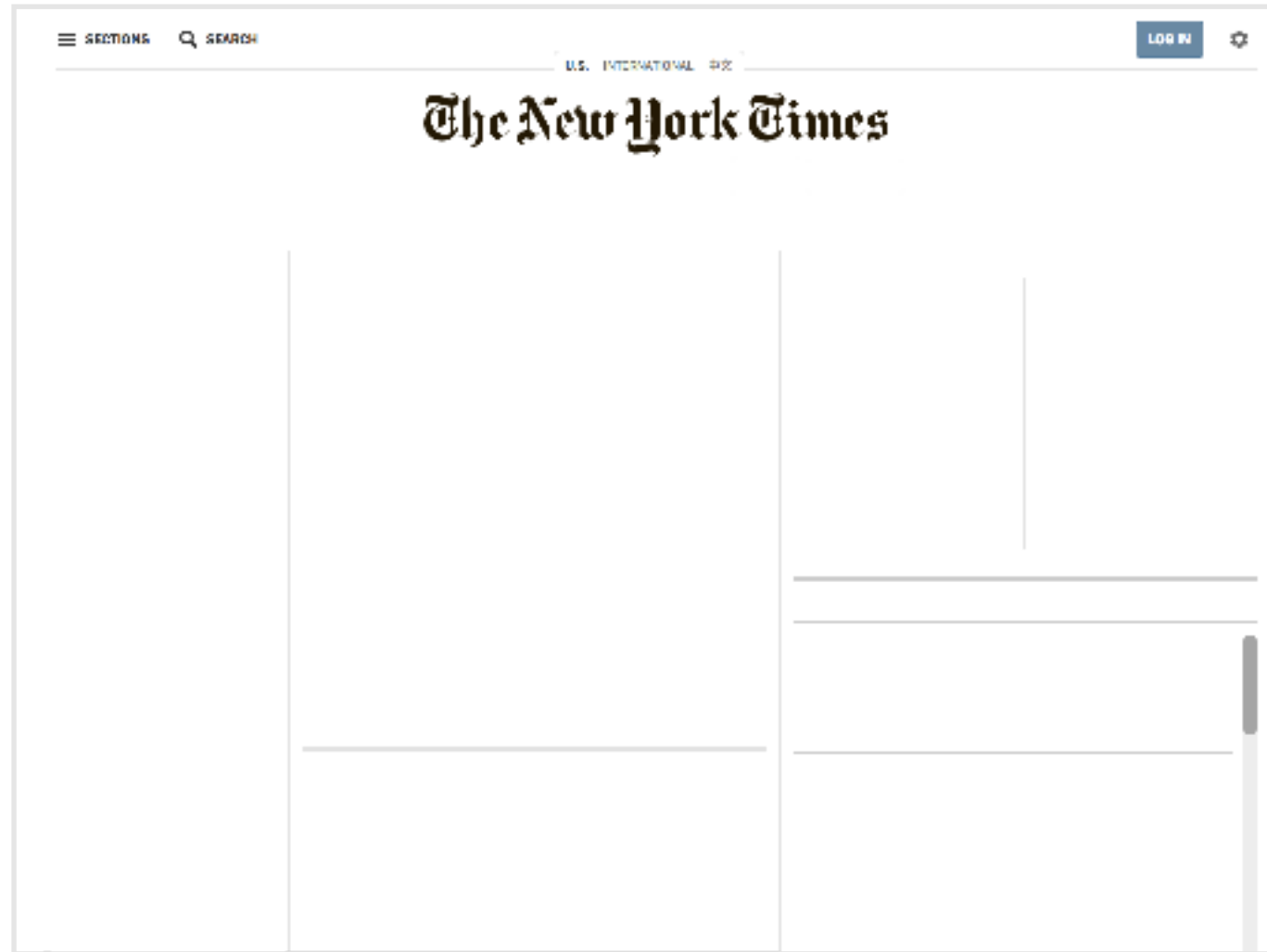
Gov. Jerry Brown, already California's longest-serving governor, will be sworn in Monday for his fourth term. He has said he plans to shore up the state's fiscal turnaround.

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

By J. DAVID GOODMAN and AL BAKER 53 minutes ago

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[108 Comments](#)

Republicans Say They'll Act Fast to Push Their Agenda

By CARL HULSE

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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

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

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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.

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Fred R. Conrad/The New York Times

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Republicans Say They'll Act Fast to Push Their Agenda

By CONN. HUIJES

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. Corrao/The New York Times

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

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By EDWARD W. LEE and WILLIAM McDONALD

Afghan Cares for the Living by Carrying the Dead

By GUYAN ARNEST TOBY 150 FT

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

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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 plans to shore up the state's fiscal fundamentals.

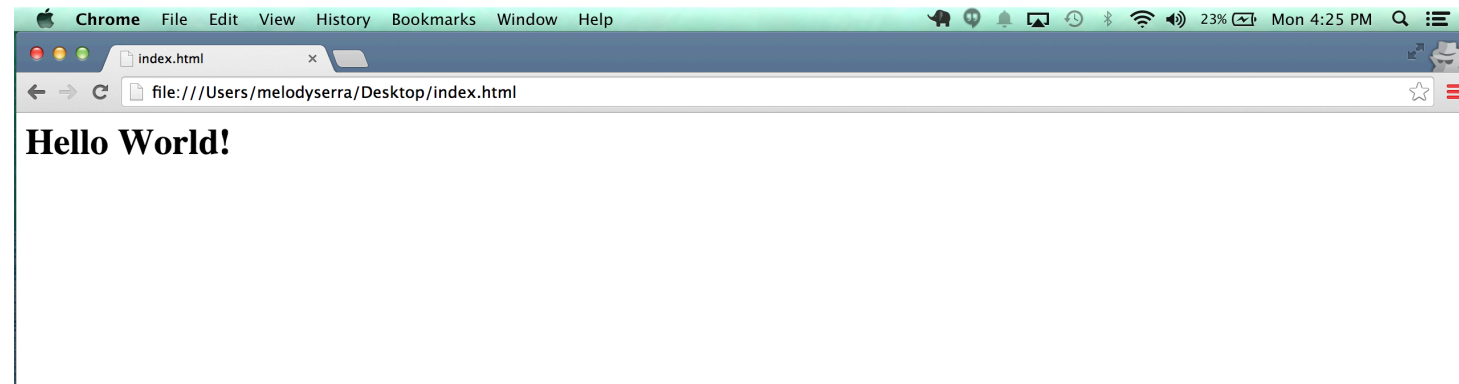
The Los Angeles Times

HTML : HYPER TEXT MARKUP LANGUAGE

- › HTML is made up of tags
- › Tags = < >
- › Tags tell the browser how to format content
- › e.g Will the content be formatted as an image or as a link?

opening tag, type declaration what is rendered closing tag

<h1>Hello World! </h1>



HTML SYNTAX — TAGS

Opening tag

Closing tag

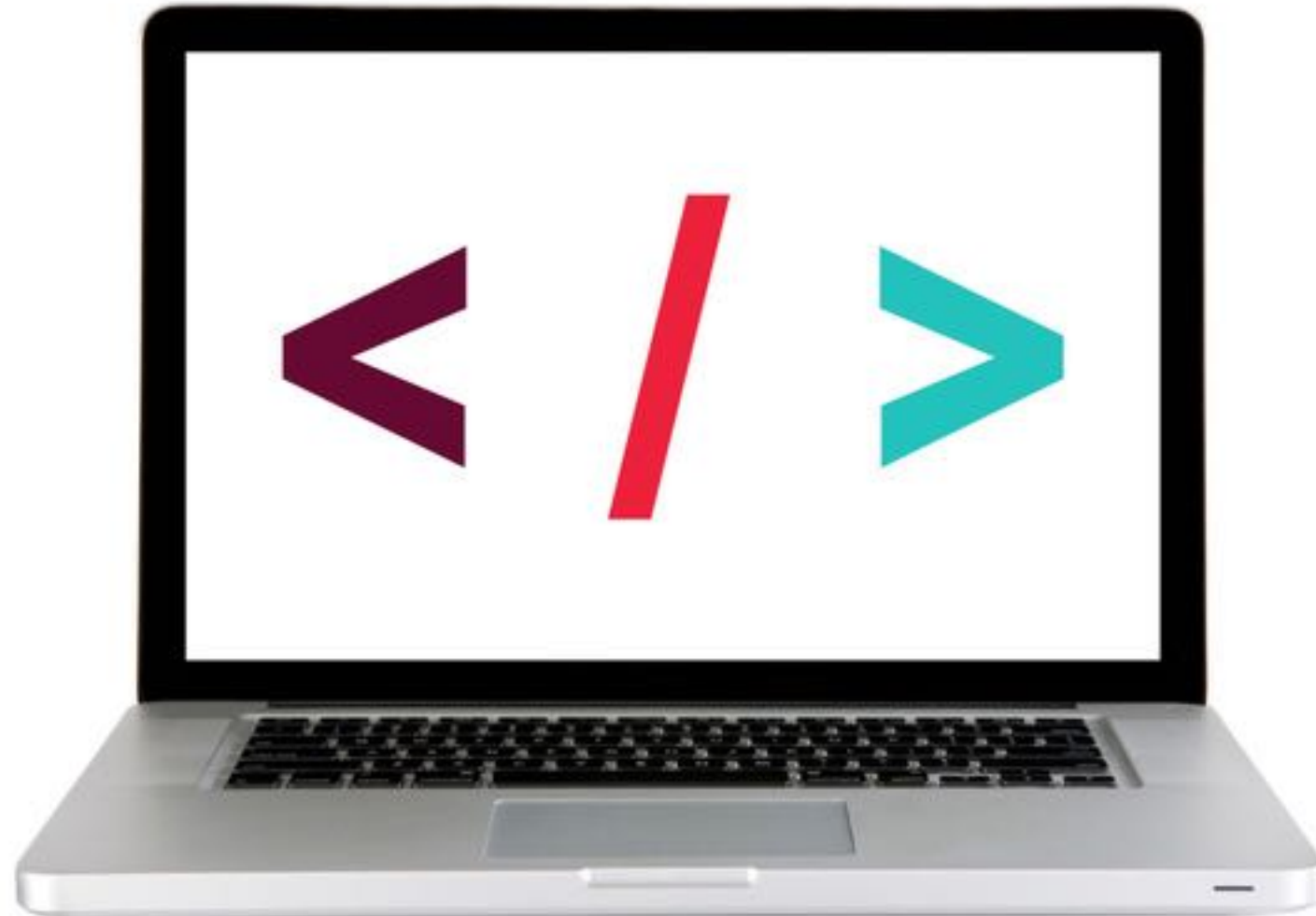
`<tag name>content</tag name>`

Element

WHAT IS HTML?

```
<h1>My Awesome Page</h1>  
<p>A paragraph of text about my awesome page.</p>  
  
<a href="https://www.facebook.com/">Visit my Facebook page</a>
```

LET'S TAKE A CLOSER LOOK



FRONT END

GUIDED PRACTICE

OPEN YOUR BROWSER AND NAVIGATE TO

[HTTP://CODEPEN.IO/SARAHHOLDEN/PEN/KA0JXD](http://codepen.io/sarahholden/pen/ka0jxd)

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

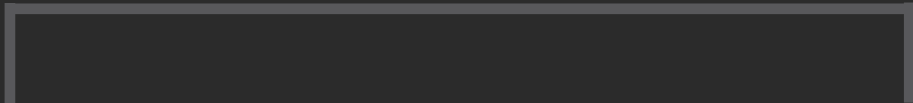
ELEMENT	DESCRIPTION	EXAMPLE
ul	Unordered List	<pre> Monday Tuesday Wednesday </pre>
li	List Item	

ATTRIBUTES — EXAMPLE

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

HTML SYNTAX — ATTRIBUTES

Attribute



```
<tagName name="value"></tagName>
```

ANCHORS

- Specify which page you want to link using the **href** attribute.
- Users can click on anything between the opening and closing `<a>` tags.

Page the link takes you to



The diagram shows an HTML anchor tag: `Amazon`. A bracket above the href value points to the text "Page the link takes you to". A bracket below the word "Amazon" points to the text "Text to display".

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

Text to display

THE IMAGE TAG

Path to the image file

Text description

```

```

```

```



BASIC LAYOUT OF AN HTML DOCUMENT

HTML STRUCTURE

- ▶ To generate HTML boilerplate in Sublime: `html + tab`.

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

HTML STRUCTURE — META CHARSET

DESCRIPTION:

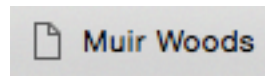
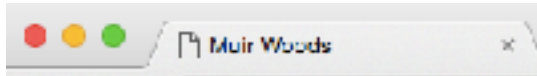
- Tells our browser which character set to use
- Should always use UTF-8

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

  <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 lang="en">
  <head>
    <meta charset="UTF-8">
    <title>Document</title>
  </head>
  <body>

</body>
</html>
```

HTML

LAB — PART 1

ACTIVITY: CREATING YOUR FIRST HTML FILE



EXERCISE

DIRECTIONS

1. Create a folder on your desktop and title it “my_website”
2. Open up the folder you just made in Sublime
3. In Sublime, create a new file and save it as “index.html”
4. Add a basic HTML template by typing `html` and hitting tab

ACTIVITY: PRACTICE WRITING HTML



EXERCISE

DIRECTIONS

1. Copy the text from the [Google doc on the dashboard](#) and paste it **within the opening and closing <body> tags.**
2. Save your HTML file!
3. Right click anywhere in the html file and click "Open in Browser"
4. Add markup (HTML tags) to the content using the Part 1 image as a reference.
5. Save your HTML file as you work!
6. Refresh the page in your browser to see any updates.

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

ADDING A CSS FILE

ADDING A CSS FILE — THE LINK ELEMENT

<link> — TELLS BROWSER WHERE TO FIND THE STYLES FOR THE PAGE



```
<link rel="stylesheet" href="style.css">
```

The diagram illustrates the components of the <link> element. A red line connects the general description above to the entire element. A teal line connects the 'rel="stylesheet"' attribute to its description below. A dark red line connects the 'href="style.css"' attribute to its description below.

**RELATIONSHIP BETWEEN
THE HTML PAGE AND THE
FILE IT IS LINKED TO**

PATH TO THE CSS FILE

ADDING A CSS FILE

**MUST GO IN THE
<HEAD> OF THE
DOCUMENT!!!**

```
<head>  
  <meta charset="UTF-8">  
  <title>My Website</title>  
  <link rel="stylesheet" href="style.css">  
</head>
```

ACTIVITY: CREATING YOUR FIRST HTML FILE



EXERCISE

DIRECTIONS

1. In your `my_website` folder, create a file called `style.css`.
2. Add a link to the stylesheet in the head of your `index.html` file. It should look like this:

```
<link rel="stylesheet" type="text/css" href="style.css">
```
3. Save your `index.html` file.

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

Styles!

COLOR

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.

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

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.

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

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

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;

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 copy the link that is provided.
4. Paste this link **on a new line inside the <head> of your index.html file.**
5. To apply these fonts in your `style.css` file, use the `font-family` property and the name of the font within quotes:

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

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

HTML FILE — ALL LINKED UP!

The structure of your HTML file should now look like this:

```
<!DOCTYPE html>
<html>
  <head>
    <title>My Awesome Website</title>
    <link href="https://fonts.googleapis.com/css?family=Lato|Raleway:400,700" rel="stylesheet">
    <link rel="stylesheet" type="text/css" href="style.css">
  </head>
  <body>

    <!-- Your HTML content from the last exercise should be here -->

  </body>
</html>
```

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



EXERCISE

DIRECTIONS

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.
4. Save each file you make edits to as you go!
5. Refresh the page in your browser to view any updates.

LAUNCHING OUR SITES!

CLIENT AND SERVER



CLIENT

- ▶ Browsers are installed on a "client" (computer, phone, etc.)

CLIENT AND SERVER



SERVER

JS

CSS

HTML

- ▶ The HTML, CSS, and JS files for websites are stored on a computer that is always connected to the internet, called a *server*

REQUEST/RESPONSE



**CLIENT RUNNING A
WEB BROWSER**

Your browser connects to a server and
requests a page



Server sends back requested page



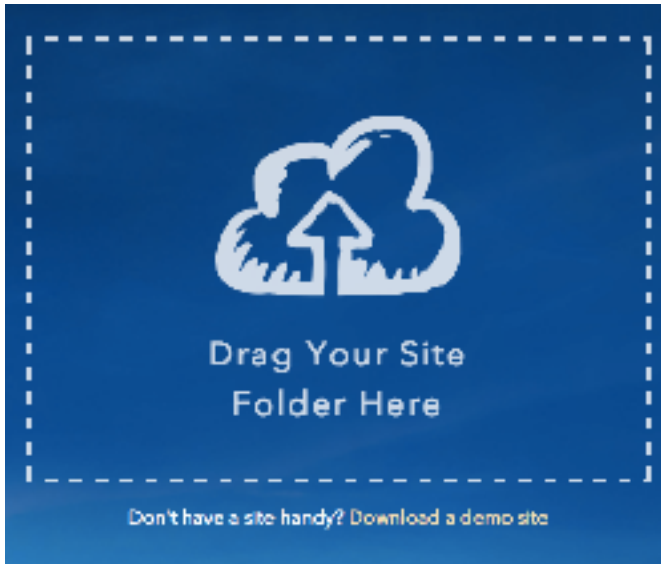
**SERVER MACHINE
RUNNING A WEB
SERVER**

ACTIVITY: LAUNCHING OUR SITES!

DIRECTIONS

1. Visit <http://bitballoon.com/>
2. Drag and drop the my_website folder we created earlier here:

EXERCISE



CLASSES AND WORKSHOPS

CODING 101 : HTML + CSS

HOW TO LEARN THIS AT GA?



PART-TIME:

FEWD / JS



FULL-TIME:

WDI



ONLINE:

HCD / JSC / WDIR

CODING 101 : HTML + CSS

MORE WORKSHOPS AND EVENTS

The screenshot shows the General Assembly website. The top navigation bar is black with white text for 'GENERAL ASSEMBLY' and links for 'On Campus', 'Online', 'Locations', 'For Companies', 'About', 'Find Your Course' (highlighted in red), and 'Sign In'. The main content area has a light gray background. A large section titled 'LEARN IN SAN FRANCISCO' includes a sub-header 'Browse upcoming classes & events' and a 'Learn Anywhere' box with a link to 'View all'. Below this is a filter bar with tabs for 'Topics', 'All Topics', 'All Formats', 'Full-Time Courses', 'Part-Time Courses', 'Classes & Workshops' (highlighted in yellow), and 'Events'. The 'Today' section features a course card for 'Intro to UX Design - San Jose'. The card includes a thumbnail image, the course title, a description, and the date 'Wed, 22 February 12:00 - 12:00 PM PST'.

GENERAL ASSEMBLY On Campus Online Locations For Companies About Find Your Course Sign In

LEARN IN SAN FRANCISCO

Browse upcoming classes & events

Learn Anywhere
Browse our online courses and workshops
[View all](#)

Topics: All Topics All Formats Full-Time Courses Part-Time Courses **Classes & Workshops** Events

Stay current and gain insight with our fast-paced and fun short-form offerings.

Today

Intro to UX Design - San Jose

This is an ideal 101 class for someone who has heard the term UX and maybe even understands the basics, but is not sure what it really means for them.

Wed, 22 February 12:00 - 12:00 PM PST

ACTIVITY: AFTER CLASS YOU CAN...



EXERCISE

DIRECTIONS

1. Go to dash.ga.co
2. There are 5 projects available to you that cover what we went over tonight and more!

WRAP UP

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REFERENCE PAGES:

- Mozilla Developer Network
- W3Schools
- CSS Tricks

STAYING CURRENT

- Smashing Magazine
- Codrops
- Medium
- A List Apart
- CSS Tricks

STAYING CURRENT

- [From Zero to Front-End Hero](#)
- [Codecademy](#)
- [CodeSchool](#)
- [Treehouse](#)

Q and A

THANKS!

THANKS!

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