**GENERAL ASSEMBLY** 

# **PSEUDO CODE**

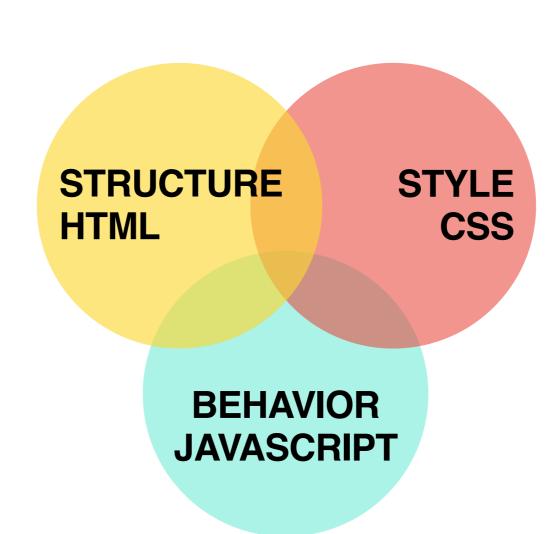
# **LEARNING OBJECTIVES**

- Define website behavior and the practical uses of JavaScript.
- Practice thinking programmatically.
- Use JavaScript and jQuery to add interaction to a webpage.
- Learn some basic JavaScript programming fundamentals.
- Utilize common tools to improve developer productivity.

# HTML, CSS, AND JAVASCRIPT— THE THREE AMIGOS

# THE THREE AMIGOS: STRUCTURE, STYLE, BEHAVIOR

- ► HTML = Noun
- ▶ CSS = Adjective
- Javascript = Verb



## WHAT IS HTML?

HTML describes the organization and structure of pages

- I. Background of 1893 Columbian Exposition
  - A. Continued tradition of big fairs
    - 1. Previous world's fairs
      - a. London and the Crystal Palace, 1851
      - b. Philadelphia, 1876
    - 2. Chicago fair to be larger than earlier fairs
  - B. Emphasized cultural achievements
    - Planners D. H. Burnham and F. L. Olmsted
    - Nation's top artists, inventors, industrialists
- II. Background of George W. G. Ferris

# WHAT IS HTML?

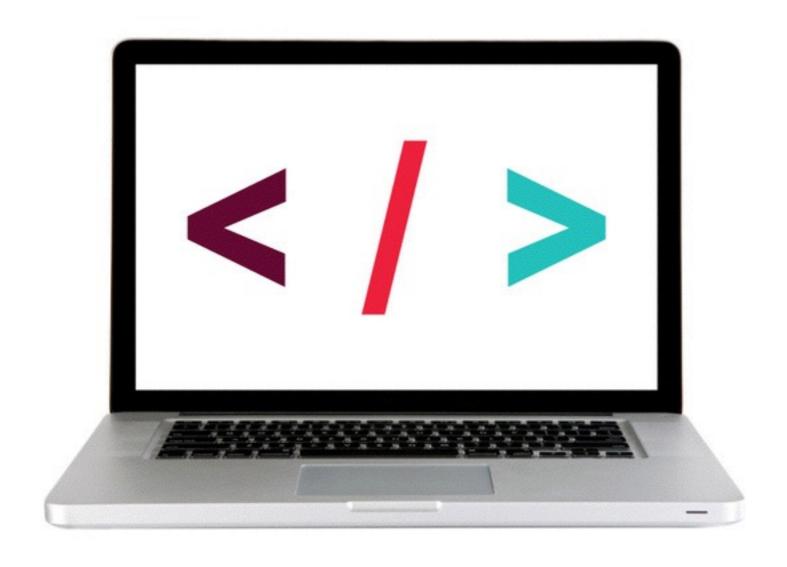
```
<!DOCTYPE html>
<html>
   <head>
         <title> This is a Web Page </title>
   </head>
   <body>
         This is a paragraph about web pages. 
         <a href="...."> This is a link to another page. </a>
   </body>
</html>
```

# WHAT IS CSS?

CSS associates style rules with HTML elements

```
body {
    font-family: Arial;
    color: white;
    background-color: blue;
}
```

# **LET'S TAKE A CLOSER LOOK**



## WHAT IS JAVASCRIPT?

- Javascript defines how content behaves
- Interactions and animations
- Heavily used in single-page web apps

```
var color = prompt("What is your favorite color?");
document.getElementsByTagName('h1')[0].innerHTML = color
```

# **JQUERY IS YOUR FRIEND**

# Fast, small, feature-rich JavaScript library

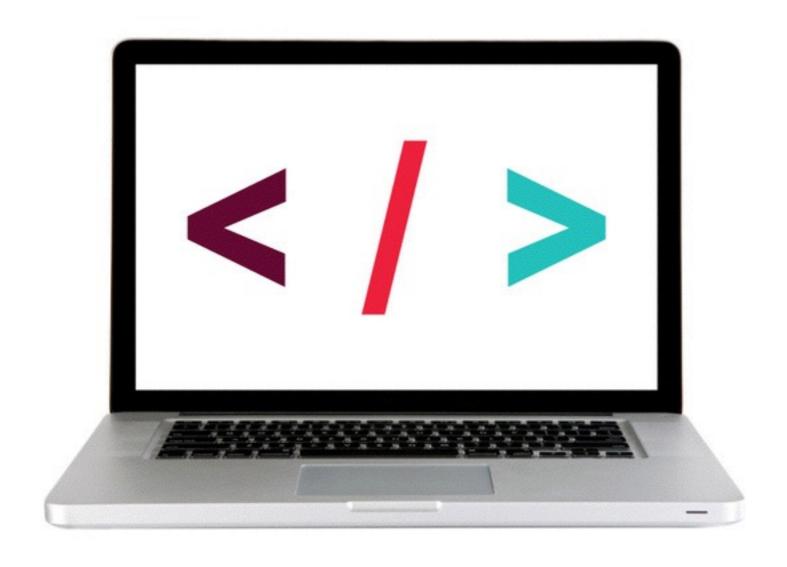
# **Javascript**

```
document.getElementsByTagName('h1')[0].innerHTML = color
```

```
jQuery
```

```
$('h1').html(color);
```

# **LET'S TAKE A CLOSER LOOK**



# SO...WHAT CAN I DO WITH JAVASCRIPT?

Access Content

2 Modify Content

3
Program
Rules

React to Events



2 Modify Content 3 Program Rules 4 React to Events

You can use JS to select any element, attribute or text from an HTML page.

#### For example:

- Select the text inside all the elements on a page
- Select the element that has the id attribute with a value of email
- Find out what the user entered into a text input when they submit a form





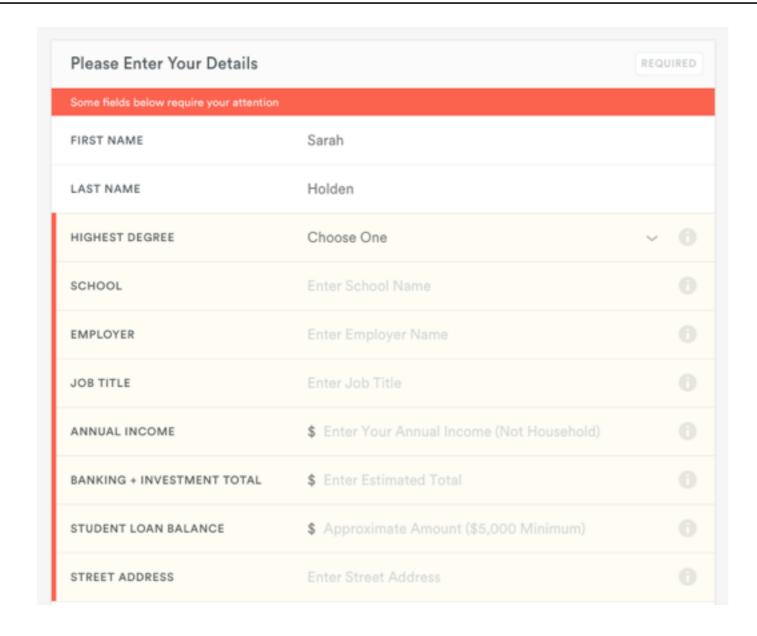
3 Program Rules 4 React to Events

You can use JS to add elements, attributes and text to the page (or remove them)

#### For example:

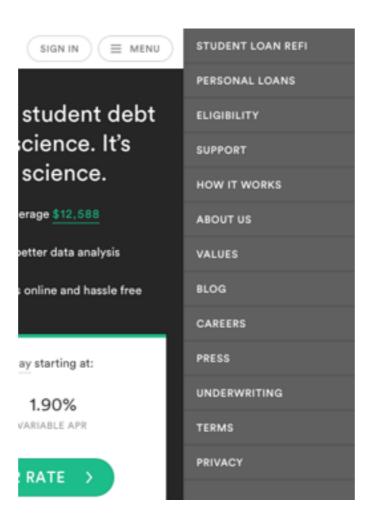
- Add an error message below a form
- ▶ Change the size, position, color, or other styles for an element
- Add or remove a class from elements to trigger new CSS rules for those elements

# WHAT JAVASCRIPT CAN DO - MODIFYING CONTENT



Add an error message (and styles) to a form

# WHAT JAVASCRIPT CAN DO - MODIFYING CONTENT



Change the size, position, color, or other styles for an element



2 Modify Content 3 Program Rules

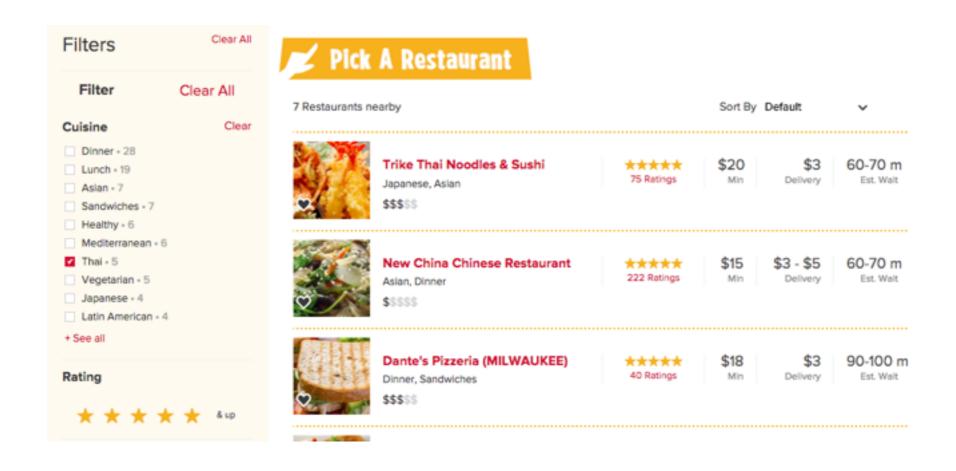
React to Events

You can specify a set of steps (instructions) for the browser to follow.

#### For example:

- Have images/text fade in as the user scrolls down the page
- Check to make sure the user has entered a valid email address into a form and display an error message if not
- Open a chat panel when the user clicks on a 'Chat with Us' button
- Filter data when the user selects a filter

# WHAT JAVASCRIPT CAN DO - PROGRAM RULES



Filter data when the user selects a filter

Access Content

2 Modify Content

3 Program Rules 4 React to Events

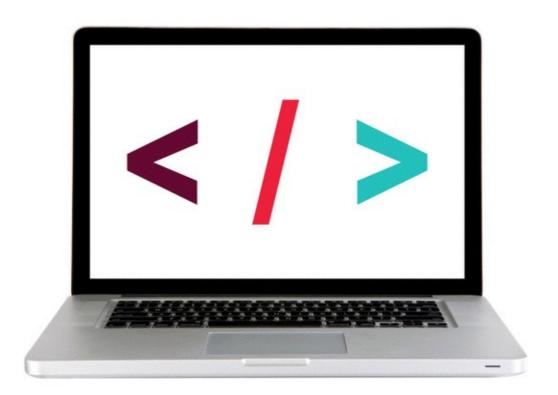
You can specify that a script should run when an event occurs

#### For example:

- When a button is clicked
- When the cursor hovers over an element
- When the user types information into a form
- When a page has finished loading
- When the user hits enter to submit a form

GET YOUR RATE >

# **LET'S TAKE A LOOK**



https://kinhr.com/

# **FEWD**

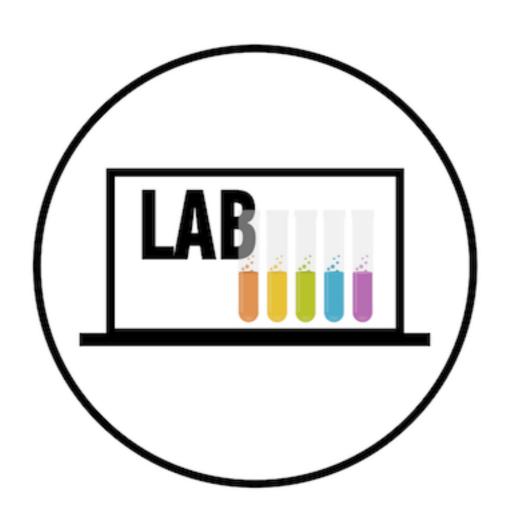
# READINGJS

# **READING JS — COLOR SWITCHER WALK THROUGH**



Color Switcher CodePen

# LAB — TRAFFIC LIGHT



# LAB — TRAFFIC LIGHT



#### KEY OBJECTIVE

Predict DOM output / changes by reading JS code.

#### TYPE OF EXERCISE

Partner

#### **TIMING**

15 min

- 1. Take a look at the <u>Traffic Light</u> code in Codepen
- 2. The yellow button changes the bulb to purple and the green light does not work.
- 3. Make some minor changes to the code so that the traffic light works correctly.

# ADDING INTERACTIONS WITH JQUERY

# **JQUERY**

# THE BASICS

## INTRO TO JQUERY — YOUR NEW BEST FRIEND!

#### WHAT IS JQUERY?

- jQuery is a JavaScript file you include in your pages.
- Makes it faster and easier to write cross-browser JavaScript
- "Cross browser" works the same in all\* browsers.
- Allows us to find elements using CSS-style selectors and then do something to them using jQuery methods
- Your new best friend!



# **JQUERY VS. JAVASCRIPT**

jQuery allows us to use the CSS-style selectors that we know and love! Yay!



# **JQUERY VS. JAVASCRIPT**

JS:

document.getElementById('heading').innerHTML = "Your Name";



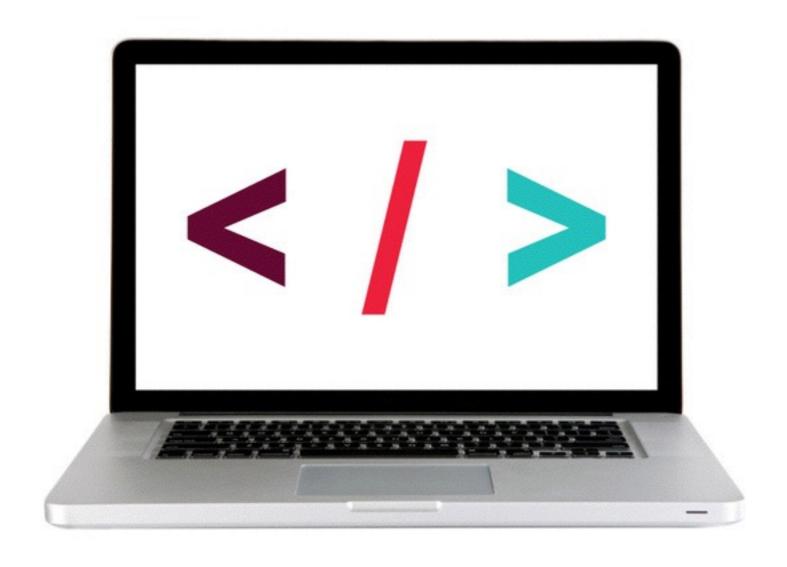
**JQUERY:** 

```
$('#heading').html('Your Name');
```



\*\*You could do everything jQuery does with plain-old vanilla Javascript\*\*

# LET'S TAKE A CLOSER LOOK - COLOR SWITCHER

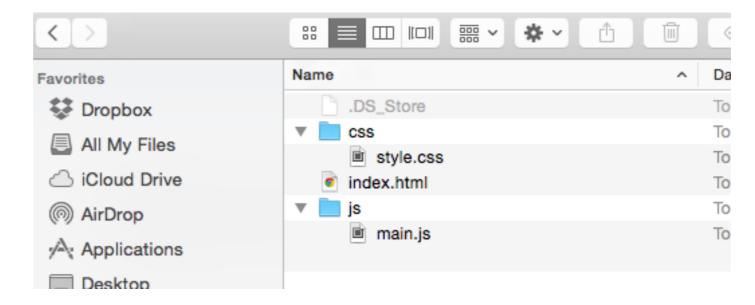


# ADDING JQUERY TO YOUR PROJECT

#### **KEEP IT ON THE UP AND UP!**

- It is considered best practice to keep Javascript files organized in one folder.
- Usually people name this folder 'scripts', 'js', or 'javascript'.
- Remember use an underscore or dash between words in folder names instead of a space. And try to avoid characters/symbols in file names (really\_cool\_page.html or really-cool-page.html).

sample structure:





#### STEP 1: ADD JQUERY TO YOUR WEBSITE

- 1. Download the <u>jQuery</u> script (version 2.x) and include it in your project. Keep things organized by placing it within your js folder.
- 2. Include jQuery in your HTML page before the closing </body> tag by adding a <script> element with a src that points to the jQuery file
- 3. Make sure to include jQuery before any other js files that use it!!!

```
<body>
  <!-- HTML content here ->
    <script src="js/jquery-1.11.2.min.js"></script>
    <!-- Javascript file will go here ->
  </body>
```

### STEP 2: ADD A JAVASCRIPT FILE

- 1.Create a Javascript file. This process will be similar to creating an HTML or CSS file, but this time the file should have a .js extension (example: main.js)
- 2.Link to the Javascript file from your HTML page using the <script> element. We'll almost always want to add this script element right before the closing body tag.

```
<body>
    <!-- HTML content here ->
        <script src="js/jquery-1.11.2.min.js"></script>
        <script src="js/main.js"></script>
        </body>
```



## **PRO TIPS**

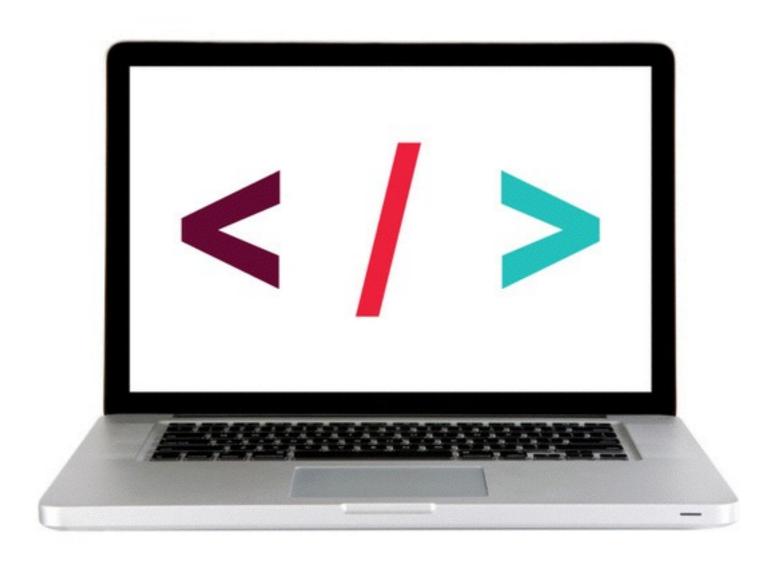
#### TO MAKE SURE YOUR JS IS HOOKED UP PROPERLY:

Add an alert to the top of your JS file and load the page in the browser

```
alert('Hello from JS!');
```

If you don't see an alert pop up when you load the page, you know you have linked your files incorrectly.

#### LET'S TAKE A CLOSER LOOK



#### **JQUERY**

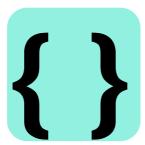
## USING JQUERY

#### **JS SYNTAX**

Syntax: Spelling and grammar rules of a programming language.

Like any language, there are formal rules around how to write Javascript. This is the syntax.









#### **COMMENTS**

```
// this is a single line comment
```

```
/*
this
is
a
multiline comment
*/
```

Sublime shortcut: 1) Highlight what you want to comment 2) command + /

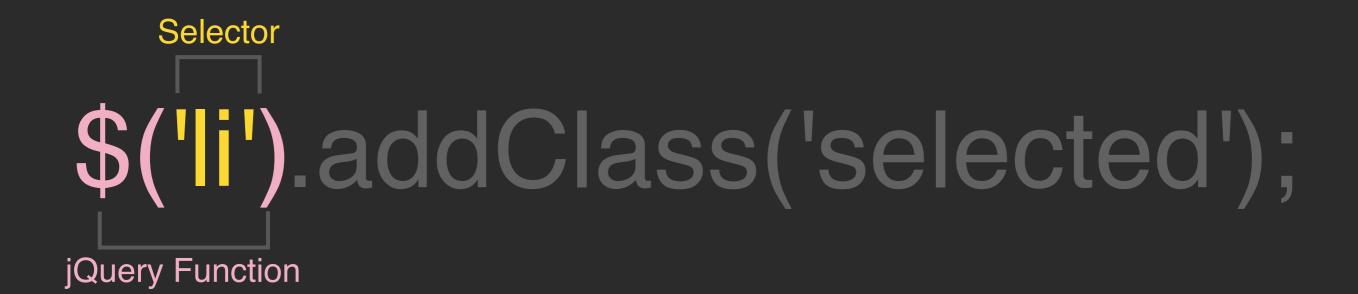
## PART 1 — SELECT AN ELEMENT

#### **USING JQUERY TO MANIPULATE THE DOM**

Select an element/elements

Work with those elements

#### JQUERY — SELECTING ELEMENTS



#### jQuery Function:

- Lets us find one or more elements in the page
- Creates a jQuery object which holds references to those elements

#### JQUERY OBJECTS — FINDING ELEMENTS: SOME EXAMPLES

You can use your CSS-style selectors!!!

|           |                       | CSS:       | JQUERY:          |
|-----------|-----------------------|------------|------------------|
| <b></b>   | CLASS                 | .className | \$('.className') |
| СТО       | ID                    | #idName    | \$('#idName')    |
| SELECTOR: | MULTIPLE<br>SELECTORS | h1, h2, h3 | \$('h1, h2, h3') |
|           | DESCENDANT            | li a       | \$('li a')       |

& tons more!!!

# PART2 — ADD A METHOD

#### **USING JQUERY TO MANIPULATE THE DOM**

Select an element/elements

Work with those elements

#### JQUERY — WORKING WITH THOSE ELEMENTS

Parameter(s)

## \$('li').addClass('selected');

Method

#### **JQUERY METHODS**

#### Be forewarned!

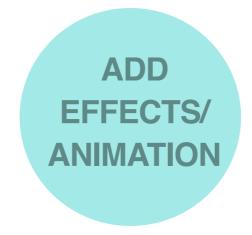
#### There are a lot of methods!

Do not feel like you need to sit down and memorize these. The important things is knowing that they're there and being able to look them up in the documentation.

#### JQUERY METHODS — WORKING WITH THOSE ELEMENTS

After we've selected elements, we can use jQuery methods to:









#### JQUERY METHODS — GETTING/SETTING CONTENT

Get/change content of elements, attributes, text nodes

Some methods available to us:

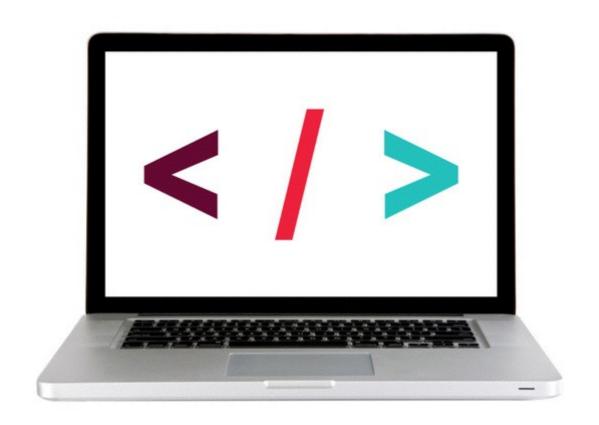
- .html()
- .attr( )
- .css()
- .addClass()
- .removeClass()
- .toggleClass()

What goes in the parentheses?
The html, styles, classes you want to add/change

Examples of adding/changing content:

```
$('h1').html('Content to insert goes here');
$('img').attr('src', 'images/bike.png');
$('#box1').css('color', 'red');
$('p').addClass('success');
$('p').removeClass('my-class-here');
```

#### LET'S TAKE A CLOSER LOOK - JQUERY EXAMPLES



#### **ACTIVITY**



| KEY OBJECTIVE |
|---------------|
|---------------|

Utilize jQuery tree traversal techniques to access and manipulate DOM elements.

#### TYPE OF EXERCISE

Individual/Partner

AS A CLASS

10 min

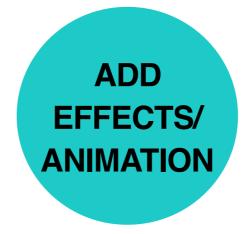
Exercise is in starter\_code > jquery\_code\_along

1. Follow the instructions under part 1 in main.js

#### JQUERY METHODS — WORKING WITH THOSE ELEMENTS

After we've selected elements, we can use jQuery methods to:









#### JQUERY METHODS — EFFECTS/ANIMATION

Add effects and animation to parts of the page

Some methods available to us:

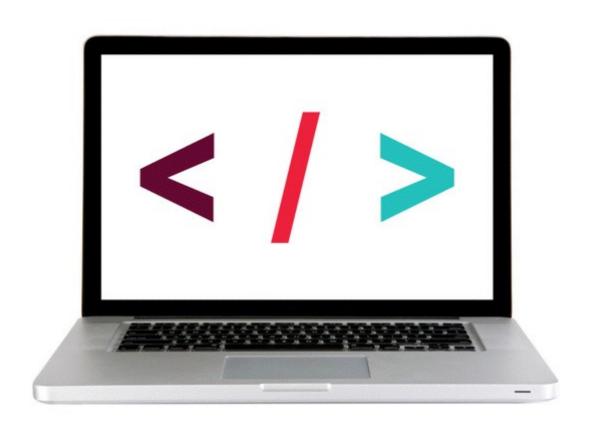
- .show()
- .hide()
- .fadeIn()
- .fadeOut()
- .slideUp()
- .slideDown()
- .slideToggle()

What goes in the parenthesis? An animation speed

Examples:

```
$('h1').fadeOut(200);
$('#box1').slideDown('slow');
$('h1').fadeIn();
```

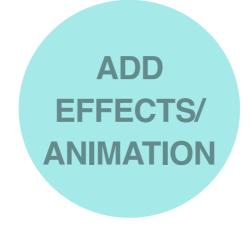
#### LET'S TAKE A CLOSER LOOK- JQUERY EXAMPLES



#### JQUERY METHODS — WORKING WITH THOSE ELEMENTS

After we've selected elements, we can use jQuery methods to:









#### JQUERY METHODS — EVENTS!

The .on() method is used to handle all events.

```
Syntax: $('selector').on('event', code_that_should_run);
```

Example:

```
$('li').on('click', function() {
  // your code here
});
```

#### JQUERY METHODS — EVENTS!

Some events that .on() deals with:

- UI: focus, blur, change
- Keyboard: keydown, keyup
- Mouse: click, mouseup, mousedown, mouseover
- Form: submit
- Browser: resize, scroll

```
$('li').on('eventGoesHere', function() {
   // your code here
});
```

#### **ACTIVITY**



#### KEY OBJECTIVE

Utilize jQuery tree traversal techniques to access and manipulate DOM elements.

#### TYPE OF EXERCISE

Individual/Partner

AS A CLASS

10 min

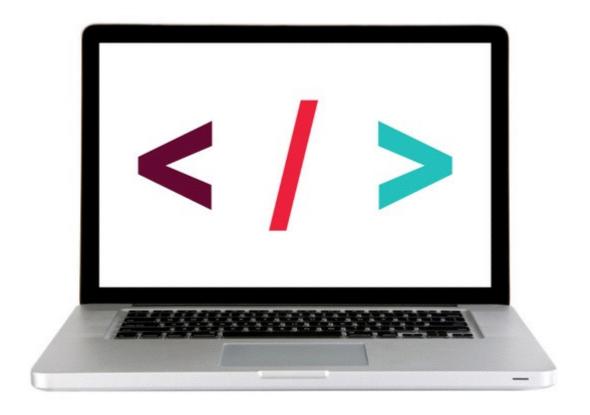
Exercise is in starter\_code > jquery\_code\_along

1. Follow the instructions under Part 2 in main.js

#### **JQUERY**

### METHOD CHAINING

#### **ACTIVITY — METHOD CHAINING**



**METHOD CHAINING!!!** 

```
$( '.item'
.slideUp( ) 300
```

```
$('.item')
```

.slideUp(300)

```
$('.item') .slideUp(300)
```

```
$('#main')
```

.fadeOut('slow')

```
$('#main') .fadeOut('slow')
```



.show()

'h3'

.show()

#### **JQUERY**

## DEBUGGING

#### **DEBUGGING**

#### WHY ISN'T IT WORKING?

# **DEBUGGING — WHERE TO START**

Always start by defining the problem.

THE IMAGE IS NOT MOVING

NONE OF MY CODE WORKS

#### **DEBUGGING — WHERE TO START**

This will tell you where to start your hunt.

THE IMAGE IS NOT MOVING

NONE OF MY CODE WORKS

Find the code that makes the image move

\* Syntax error, check console

### **DEBUGGING**

To access debugging console:

PC: CTRL+SHIFT+J

Mac: COMMAND+OPTION+J

Click the error

#### **DEBUGGING — LEVEL 1**

#### Check for errors in console

- The location may not be correct but is a good place to start.
- Ex: Unbalanced brackets or parentheses





#### **DEBUGGING — LEVEL 2**

### Do some Googling!

- Try Googling it
- Be ready to clearly articulate the problem (Write out what your problem is)

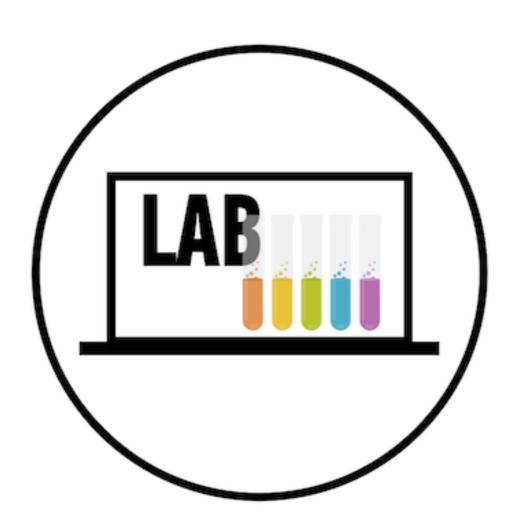
# JQUERY DOCUMENTATION

#### **JQUERY DOCUMENTATION - IT'S YOUR FRIEND!**

Help! There's too much to learn! I feel overwhelmed!

# A good developer is one that can look things up!!!

- 1. The <u>jQuery Examples</u> page has an example for almost every method!
- 2. <u>jQuery documentation</u> Look things up



## **ACTIVITY**



#### KEY OBJECTIVE

Utilize jQuery tree traversal techniques to access and manipulate DOM elements.

#### TYPE OF EXERCISE

Partners/small groups

#### AS A CLASS

30 min

Lab is in starter\_code > select\_fun

- 1. Follow the instructions in main.js
- 2. Look up any methods you're not familiar with in the jQuery documentation.
- 3. Bonus: Complete part 2 of the lab for more practice (starter\_code > select\_fun\_part\_2)

# INTRO TO PROGRAMING

#### **PROGRAMMING**

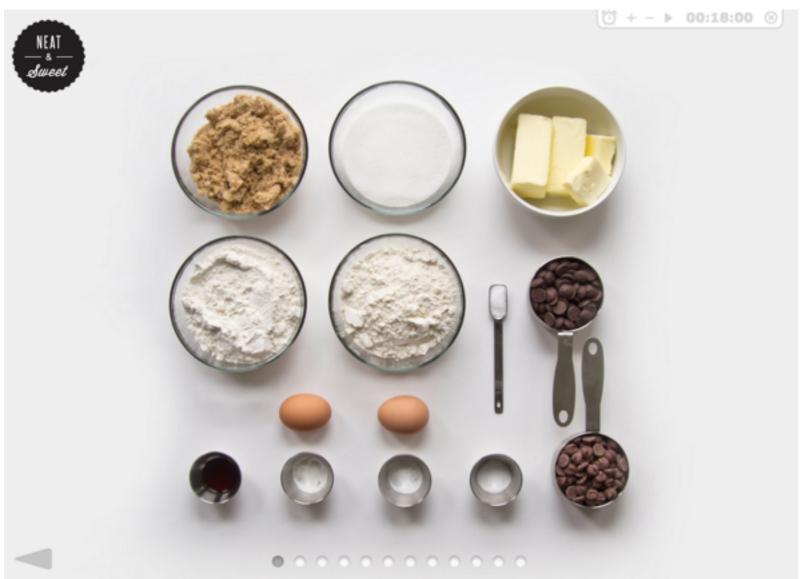
#### WHAT IS A PROGRAM?

A program is a set of instructions that you write to tell a computer what to do

#### WHAT IS PROGRAMMING?

 Programming is the task of writing those instructions in a language that the computer can understand.

#### WHAT IS A PROGRAM?



#### chocolate chip cookies

#### ingredients

2 cups minus 2 tablespoons cake flour

12/3 cups bread flour

11/4 teaspoons baking soda

11/2 teaspoons baking powder

11/2 teaspoons coarse salt

2 1/2 sticks unsalted butter

11/4 cups light brown sugar

1 cup plus 2 tablespoons granulated sugar

2 large eggs

2 teaspoons natural vanilla extract

1 cup dark chocolate chips

1 cup milk chocolate chips

1 teaspoon sea salt

Adapted from New York Times

Preparation Time: 25 minutes, plus at least 24 hours

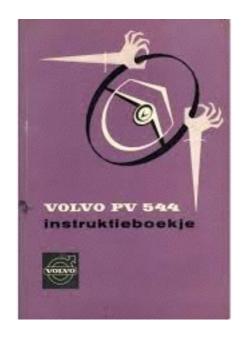
chilling time

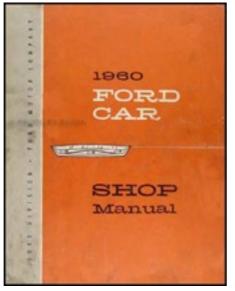
Cooking Time: 20 minutes

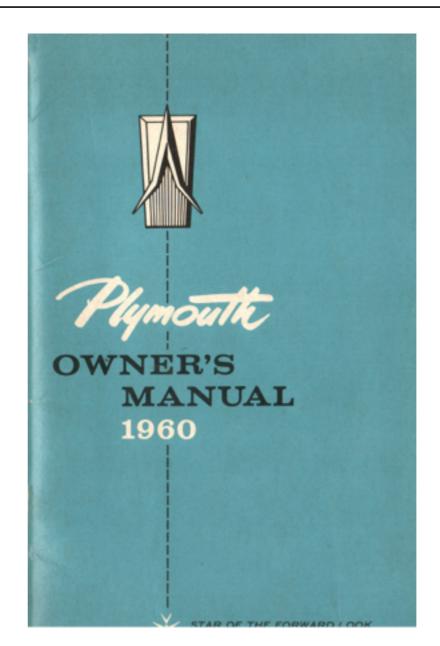
Yield: 2 dozen 3-inch cookies.

The secret to richer Chocolate Chip Cookies with a more sophisticated flavor is letting the dough rest for 24 to 36 hours before baking.

### WHAT IS A PROGRAM?







#### **BECOMING A PROGRAMMER**

It isn't about the programming language!!!

It is about changing how you think.

#### **HOW COMPUTERS 'THINK'**

- Short answer they don't think!
- While computers don't think, they act as if they do, by sequentially executing simple instructions.
- The only things a computer knows are the things we tell it.
- A computer doesn't learn to perform tasks like you and I it needs to follow instructions every time it performs the task.

# INTRO TO PSEUDO CODE

#### **PSEUDO CODE**

- When we write a program, we need to figure out a way to translate the ideas that are in our heads into code
- Pseudo code is a way to 'plan out' your program before coding it
- Pseudo code is a detailed yet readable description of what a computer program must do, expressed in plain english rather than in a programming language

# THE IMPORTANCE OF PLANNING



#### PSEUDO CODE — THERMOSTAT

Goal: Write pseudo code for an application that would monitor the room temperature and adjust it so the room remains at a certain temperature.



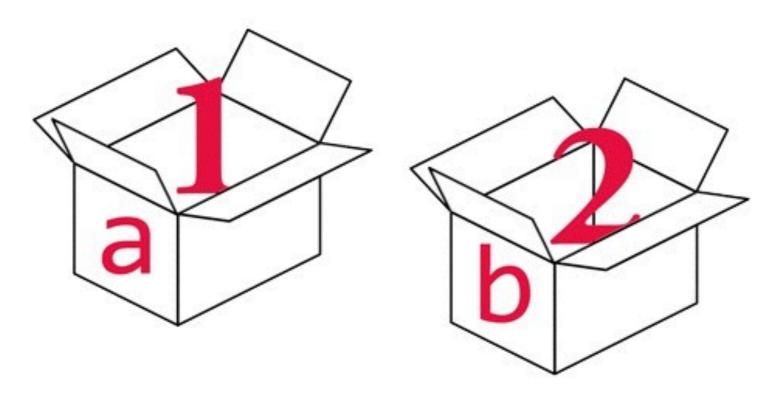
# JAVASCRIPT FUNDAMENTALS

## **JS BASICS**

# VARIABLES

#### WHAT ARE VARIABLES?

- ▶ We can tell our program to remember (store) values for us to use later on.
- The 'container' we use to store the value is called a variable



## **JS BASICS**

# SYNTAX

Declaring a variable

Var age; Keyword Name

Assigning a variable

age = 29;

Name

Value

Both in one step

varage = 29;

Declaring a variable

var age;

Assigning a variable

age = 29;
Name Value

Name

Both in one step

varage = 29;

Keyword

Declaring a variable

Var age;

Keyword

Name

Name

Value

Both in one step

Var age = 29;

Declaring a variable

Assigning a variable

$$- age = 29;$$

Both in one step

# var champion = "Sarah"; champion = "Jeff";

# **ASSIGNMENT OPERATORS**

|                                 | <b>INITIAL VALUE:</b> | OPERATOR: | EXAMPLE: | RESULT: |
|---------------------------------|-----------------------|-----------|----------|---------|
| ASSIGN VALUE<br>TO VARIABLE     | var num = 8           | =         | num = 6  | 6       |
| ADD VALUE<br>TO VARIABLE        | var num = 8           | +=        | num += 6 | 14      |
| SUBTRACT VALUE<br>FROM VARIABLE | var num = 8           | -=        | num -= 6 | 2       |

## **JS BASICS**

# RULES

#### **VARIABLE CONVENTIONS**



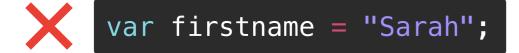
1. Variables start with a lowercase letter





2. If they contain multiple words, subsequent words start with an upper case letter.

```
var firstName = "Sarah";
```



var number1 = 5.5;

```
var first name = "Sarah";
```

3. Names can only contain: letters, numbers, \$ and \_ (no dashes - or periods . )



X

var number-1 = 10;



var number.1 = 10;

#### **VARIABLE CONVENTIONS**



3. Variables cannot start with a number



```
var 1number = 10;
```

- 4. Case sensitive numberofstudents is not the same as numberOfStudents
- 5. Names should be descriptive



```
var lastName = "Holden";
```

```
var x = "Holden";
```

#### WHAT CAN BE STORED IN VARIABLES?

#### **DATA TYPES:**

**STRINGS** 

"Today is Monday"

Letters and other characters enclosed in quotes

**NUMBERS** 

10

22.75

- Positive numbers
- Negative numbers
- Decimals

**BOOLEANS** 

true

false

Can have one of two values:

- True
- False

<sup>\*</sup> Note: we'll meet some more data types later on down the road, too!

#### **TO SUMMARIZE**

- 1. A variable has both a "name" and a "value"
- 2. That value can change
- 3. A variable can be used multiple times throughout the code

#### **ORDER IS IMPORTANT!!!**

# var name = "Matt";



## PRACTICE — VARIABLES



| <b>KEY</b> | OBJ | <b>IECT</b> | <u>IVE</u> |  |
|------------|-----|-------------|------------|--|
|            |     |             |            |  |

Practice declaring and assigning variables

#### TYPE OF EXERCISE

Individual/paired

#### LOCATION

starter\_code> variables

#### EXECUTION

6 min

1. Follow the instructions under Part 2

#### **JS BASICS**

### DATA TYPES

#### **DATA TYPES**

## NUMBERS

#### **MORE ABOUT NUMBERS**

#### **INTEGERS:**

Integers are whole numbers

10

#### **FLOATS:**

Number that uses a decimal to represent a fraction

22.75

\*Can perform arithmetic on number data types

#### **ARITHMETIC OPERATORS**

|  |                | OPERATOR: | EXAMPLE: | RESULT: |
|--|----------------|-----------|----------|---------|
|  | ADDITION       | +         | 2 + 4    | 6       |
|  | SUBTRACTION    | -         | 8 - 1    | 7       |
|  | MULTIPLICATION | *         | 2 * 3    | 6       |
|  | DIVISION       | /         | 4/2      | 2       |

#### **DATA TYPES**

## STRINGS

#### **MORE ABOUT STRINGS**

#### A STRING:

- Stores textual information
- Is surrounded by quotes

"How is the weather today?"

'Cold'

#### METHODS AND PROPERTIES OF STRINGS

#### MAKE STRING LOWERCASE:

```
var str = "Hello World";
var res = str.toLowerCase();
// the result of res will be:
// hello world!
```

#### **LENGTH OF A STRING (PROPERTY):**

```
var str = "Hello World";
var n = str.length;
// the result of n will be 11
```

#### **MAKE STRING UPPERCASE:**

```
var str = "Hello World";
var res = str.toUpperCase();
// the result of res will be:
// HELLO WORLD!
```

<sup>\*\*</sup>Find a whole list of methods and properties for strings <a href="here">here</a>

#### STRING CONCATENATION

- To take two strings and stick them together, use the + operator.
- This is called string concatenation.

```
var book = "Happy";
var summary = "Best book ever.";
var review = book + ": " + summary;
// Result will be: Happy: Best book ever.
```

#### **DATA TYPES**

## BOOLEANS

#### **BOOLEANS**

Can have one of two values:



false

#### **DATA TYPES**

# CONVERTING DATA TYPES

#### DATA TYPE CONVERSION

#### STRING TO INTEGER:

```
var intString = "4";
var intNumber = parseInt(intString, 10);
```

#### STRING TO FLOAT:

```
var floatString = "3.14159";
var floatNumber = parseFloat(floatString);
```

#### **NUMBER TO STRING**

```
var number = 4;
number.toString(); => "4";
```

#### **JS BASICS**

### CONDITIONALS

#### **JS BASICS**

## WHAT ARE CONDITIONALS?

#### **IF STATEMENTS**



#### **CONDITIONAL LOGIC**

If something is true, do one thing. If it is not, do something else. This type of logic or statemer is a condition.

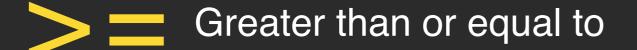
In JavaScript (and coding in general) you'll need to make comparisons all the time:

- ▸ Is a user logged in?
- ▶ Has the user chosen three or more colors?
- ▸ Is the password correct?
- Does a user have enough money in their bank account?
- etc.

#### **JS BASICS**

## COMPARISON OPERATORS

#### JAVASCRIPT — COMPARISON OPERATORS



Equal to \_\_\_\_\_

Less than or equal to

Not equal to



Greater than

Less than

#### ASSIGNMENT VS. COMPARISON — DON'T GET THEM CONFUSED!

#### **ASSIGNMENT**



var number = 7;

#### **COMPARISON**



or



```
if (number === 8) {
  // Do something
}
```

#### **JS BASICS**

## IF STATEMENTS

#### JAVASCRIPT — IF STATEMENT

```
Condition
if (answer === 38)
  // Do something if true
```

#### **IF STATEMENTS**

```
if (age > 65) {
    $('h1').html("Senior Discount Applied");
}
```

#### JAVASCRIPT — IF/ELSE STATEMENT

```
if (answer == 38)
  // Do something if true
} else {
  // Do something if false
```

#### IF STATEMENTS

```
if (age > 65) {
    $('h1').html("Senior Discount Applied");
} else {
    $('h1').html("Sorry, you do not qualify for a discount.");
}
```

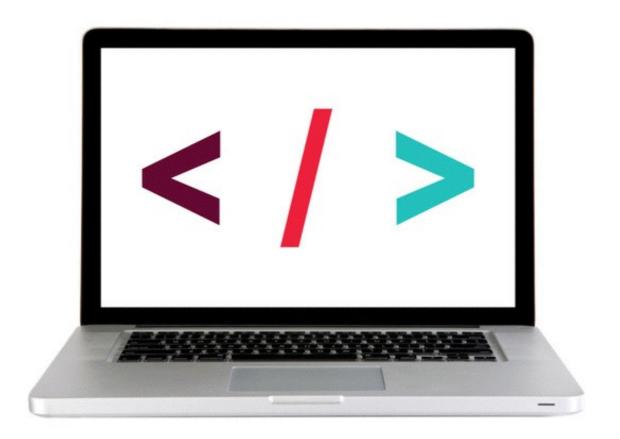
#### JAVASCRIPT — IF/ELSE IF/ELSE

```
if (answer === 38)
  // Do something if first condition is true
\} else if (answer === 30) {
  // Do something second condition is true
} else {
  // Do something if all above conditions are
false
```

#### IF STATEMENTS

```
if (age > 65) {
    $('h1').html("Senior Discount Applied");
} else if (age < 18) {</pre>
    $('h1').html("Student Discount Applied");
} else {
    $('h1').html("Sorry, you don't qualify for a discount");
```

#### **LET'S TAKE A CLOSER LOOK**



View in **Codepen** 

#### **CODE ALONG — CONDITIONALS**

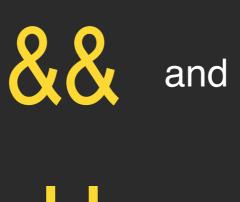


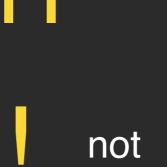
Let's code! starter\_code > conditionals

#### **JS BASICS**

## LOGICAL OPERATORS

#### JAVASCRIPT — LOGICAL OPERATORS

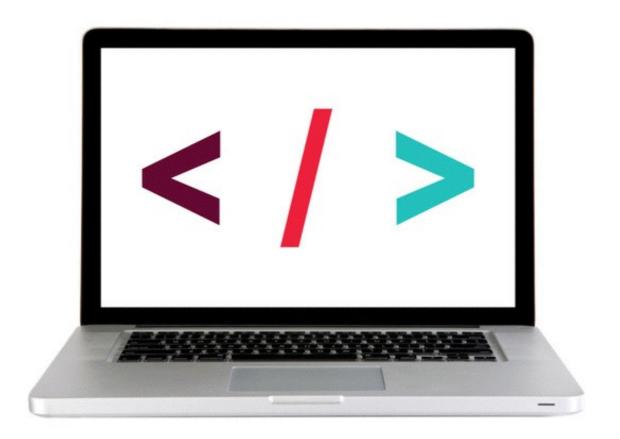




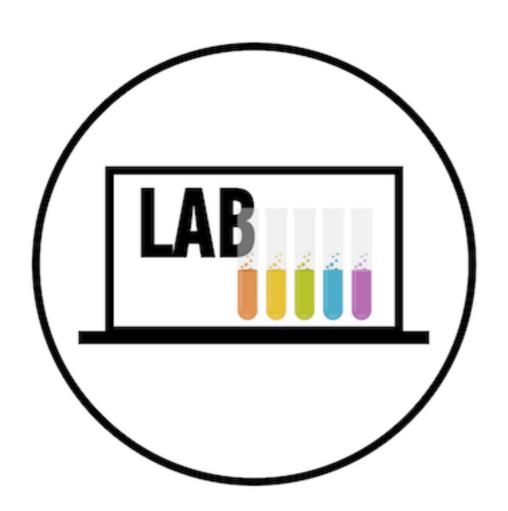
#### **MULTIPLE CONDITIONS**

```
if (name == "GA" && password == "YellowPencil"){
    //Allow access to internet
}
```

#### **LET'S TAKE A CLOSER LOOK**



View in **Codepen** 



#### LAB — TEMP CONVERTER —

Formula to convert fahrenheit to celsius: (fahrenheit - 32) / 1.8;

Formula to convert celsius to fahrenheit: 1.8 \* celsius + 32;

#### JQUERY METHODS — EVENTS!

The .on() method is used to handle all events.

```
Syntax: $('selector').on('event', code_that_should_run);
```

Example:

```
$('li').on('click', function() {
  // your code here
});
```

#### LAB — TEMP CONVERTER — PART 2



#### KEY OBJECTIVE

 Build an application using HTML/CSS and JS that converts a temperature from Fahrenheit to Celsius

#### WHAT WE WANT OUR END RESULT TO BE

Use the <u>live version</u> to test the functionality

#### **EXECUTION**

45 min

- 1. Write .js to make the temperature converter functional.
- 2. Bonus #1: Change the background-color depending on what temperature the user enters (example)
- 3. Bonus #2: Add error styles if the user doesn't enter a value in the form (example)
- 4. Bonus #3: Add your own styles to the temperature converter (example)

