

# JAVASCRIPT DEVELOPMENT

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### **HELLO!**

- 1. Pull changes from the svodnik/jsd5 repo to your computer (If necessary, first use the command git stash to set aside any changes you've made locally)
- 2. Navigate to the starter-code folder

# Intro to the DOM and iQuery

## **LEARNING OBJECTIVES**

At the end of this class, you will be able to

- Identify differences between the DOM and HTML.
- Explain and use JavaScript methods for DOM manipulation.
- Manipulate the DOM by using jQuery selectors and functions.
- Register and trigger event handlers for jQuery events.

## **AGENDA**

- DOM
- DOM manipulation lab
- jQuery
- jQuery lab

# **Checkin and questions**

- The most significant thing I've learned about objects and JSON is
  - \_\_\_\_\_-
- My biggest outstanding question about objects and JSON is
  - \_\_\_\_-•

# Brainstorm 5 ways to describe the location of the string "orange" within this HTML code.

```
<html>
 <head>
  <title>Foods</title>
 </head>
 <body>
  <h1><img src="images/apples.png" alt="a wood bowl of red apples"></h1>
  apple
   orange
   banana
  </body>
 html>
```

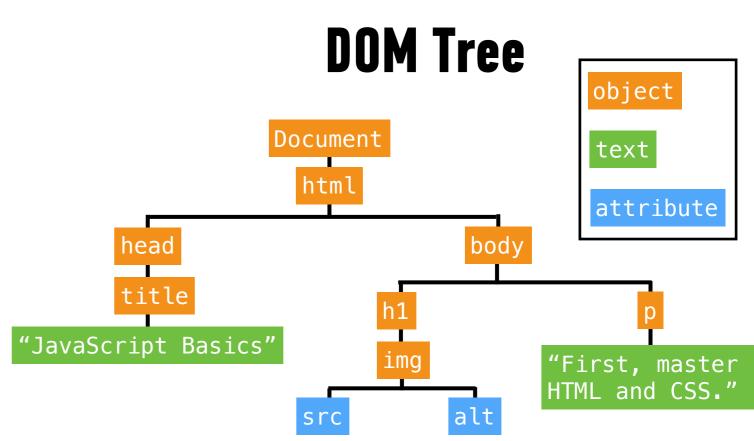
# THE DOCUMENT OBJECT MODEL (DOM)

# DOCUMENT OBJECT MODEL (DOM)

- The **Document Object Model (DOM)** is a way of representing the contents of a web page.
- The DOM lets you access the structure of a web page, and change the structure, style, and content of the page.
- The DOM breaks up a page into objects and nodes, which have properties and methods.
- At its core, the DOM is a way of accessing web pages with scripts.

### HTML code

```
<html>
    <head>
        <title>JavaScript Basics</title>
    </head>
    <body>
        <h1>
            <img src="logo.png" alt="JS Basics">
              </h1>
            First, master HTML and CSS.
        </body>
    </html>
```



# The Document object

- Created by the browser
- Contains properties and methods of the web page content
- Also contains all web page elements as descendant objects

## REFERENCING A SCRIPT IN HTML

```
script element at the bottom of the body element
```

just before the closing </body> tag

```
<html>
    <head>
    </head>
    <body>
        <h1>JavaScript resources</h1>
        <script src="script.js"></script>
        <body>
        </html>
```

- For DOM manipulation, always place the script element at the bottom of the body element, just before the closing </body> tag
- This ensures that all the content has loaded before we start manipulating the DOM
- Otherwise, the content we're working with may not have loaded yet, resulting in errors

## REFERENCING THE JQUERY LIBRARY

the jQuery file is loaded first, telling the browser how to interpret jQuery syntax

our JavaScript file uses jQuery syntax, so, we load it after the jQuery JavaScript file

## **LEARNING OBJECTIVES - REVIEW**

- Identify differences between the DOM and HTML.
- Explain and use JavaScript methods for DOM manipulation.
- Manipulate the DOM by using jQuery selectors and functions.
- Register and trigger event handlers for jQuery events.

# NEXT CLASS PREVIEW DOM and jQuery continued

- Implement advanced jQuery events.
- Use event delegation to manage dynamic content.
- Use implicit iteration to update elements of a jQuery selection and chaining to place methods on selectors.
- Add a templating language to our projects for better and more abstracted content manipulation.

# Exit Tickets!

# Q&A