

Week 4 - Day 3

## DOM Manipulation

Can you really *manipulate* The DOM though?



Yea I didn't think so... Thankfully we're not talking about *that* Dom.

Today we're going to be practicing DOM manipulation and event handling.

### Learning Objectives

- DOM Manipulation
- Event Handling

## Completion

Give it your best shot!

## Accessing DOM Elements (Querying)

Let's start with some simple query selecting.

### Part 1

DOM's personal website title is a bit wordy. Write a JavaScript statement that selects the `#main-title` ID element. Remember there are a couple of ways to query **id**. Change the **text** of the title to something shorter.

### Part 2

Select the `body` and change the `background-color` to a new color of your choice.

### Part 3

Select **DOM's Favorite Things** list and remove the last list item.

### Part 4

Select all `.special-title` class elements and change their `font-size` to `2rem`. Remember you might have to iterate through the list of elements

### Part 5

Turns out DOM never raced in **Chicago**. Access the **Past Races** list and remove **Chicago**.

## Creating New DOM Elements

### Part 6

Let's add to DOM's **Past Races** list. Create a new `<li>` element, change the new `<li>` text to the name of a city, and append it to the **Past Races** list.

### Part 7

Create a new `.blog-post` corresponding to the new city added in **Part 6**. You will have to create a new `<div>` with class of `.blog-post`, a new `<h2>` with text, and a new `<p>` with some text. Think about what order you want to create the elements, and what order you want to append them in.

## Event Handlers

### Part 8

When you reload the page, the `script.js` file loads a random DOM quote. Let's play with the included function:

```
1 | const randomQuote = function() {  
2 |   document.querySelector('#quote-of-the-day').innerText = `${quotes[Math.floor(Math.random() * quotes.length)]}`;  
3 | };
```

Query select the `#quote-title` ID element and add a **click** event handler. That event handler should use the function `randomQuote` whenever `#quote-title` is clicked.

### Part 9

Select all `.blog-post` class elements. Iterate through the list of `.blog-post` class elements and apply two event handlers to each node. The first event handler should be listening for `mouseout` events while the second handler should be listening for `mouseenter` events.

- The `mouseout` handler should toggle the class `.purple`
- The `mouseenter` handler should toggle the class `.red`

Test it out!

Hint:

Remember the document node property `.classList` and the document node method `.toggle()`.