

WEB DEVELOPMENT WORKSHEET

DAY 4 (Thursday)

Part I: Reminders

So far, we've learned the basics of HTML and CSS, and how to write a bit of JavaScript code in your browser's console. If you need a refresher, or want to refer to information in a previous worksheet, here are the links:

Day 1 worksheet:

https://docs.google.com/document/d/1X8Yfnj_aB3toN4WDxkKwbE3PVeZcsGJMNx3WJHyQuhA/edit?usp=sharing

Day 2 worksheet:

https://docs.google.com/document/d/1Z3rlw2Zn-gLkUTCxy_GwJQOmeEht0aAiHTTWz26VA5g/edit?usp=sharing

Day 3 worksheet:

<https://docs.google.com/document/d/18f5JgEleh-UkvYDjRPHXwsyRWLjXp4cl3qHtBCJdf4c/edit?usp=sharing>

Part II: Modifying HTML elements with JavaScript

Today, we're going to learn how to select and modify HTML elements using JavaScript. This will allow you to write programs in the console that change how a website appears in your browser!

First, watch this video: <https://www.youtube.com/watch?v=1IZO3PVkits>

So you see, we can combine our knowledge of HTML elements, CSS selectors, and JavaScript variables and functions to write code that controls a website's appearance. This is just a taste of what JavaScript can do – you can use these same basic skills to create entire applications!

Q: What would you write inside of the parentheses in `document.querySelector()` to select an HTML element with the ID "potato"?

Q: What would you write inside of the parentheses in `document.querySelector()` to select an HTML element with the class "howdy"?

Part III: Quick reference

As you complete the rest of the worksheet questions, you may want a quick reference to the things you learned in the video. Here it is!

To remember a HTML element as a variable in JavaScript, use the `document.querySelector` function. You can use a tag, class, or ID selector to get the element. For example:

HTML element to remember	JavaScript to remember it
<code><h1> Title! </h1></code>	<code>var t = document.querySelector("h1")</code>
<code><div class="example"> I am an example div! </div></code>	<code>var e = document.querySelector(".example")</code>
<code><p id="ip"> This information is obviously very important. </p></code>	<code>var p = document.querySelector("#ip")</code>

To change the style of an HTML element, use `.style`:

HTML element to change	JavaScript to change it
<code><h1> Title! </h1></code>	<code>var t = document.querySelector("h1") t.style.color = "blue"</code>
<code><div class="example"> I am an example div! </div></code>	<code>var e = document.querySelector(".example") e.style.background = "yellow"</code>
<code><p id="ip"> This information is obviously very important. </p></code>	<code>var p = document.querySelector("#ip") p.style.fontSize = "20px"</code>

Part IV: Do it!

Go to the course website, open the console, and write code that does the following things. Remember to copy the question into your journal, then copy your code directly below the question.

Q: Write JavaScript code to change the background color of the <body> HTML element to purple.

Q: Write JavaScript code to change the background color of the HTML element with the id "canvas" to red.

Q: Write JavaScript code to change the text that says "Ms. Lord's Class Learns Web Dev" to blue