

HTML Day One Intro Workshop

Intro:

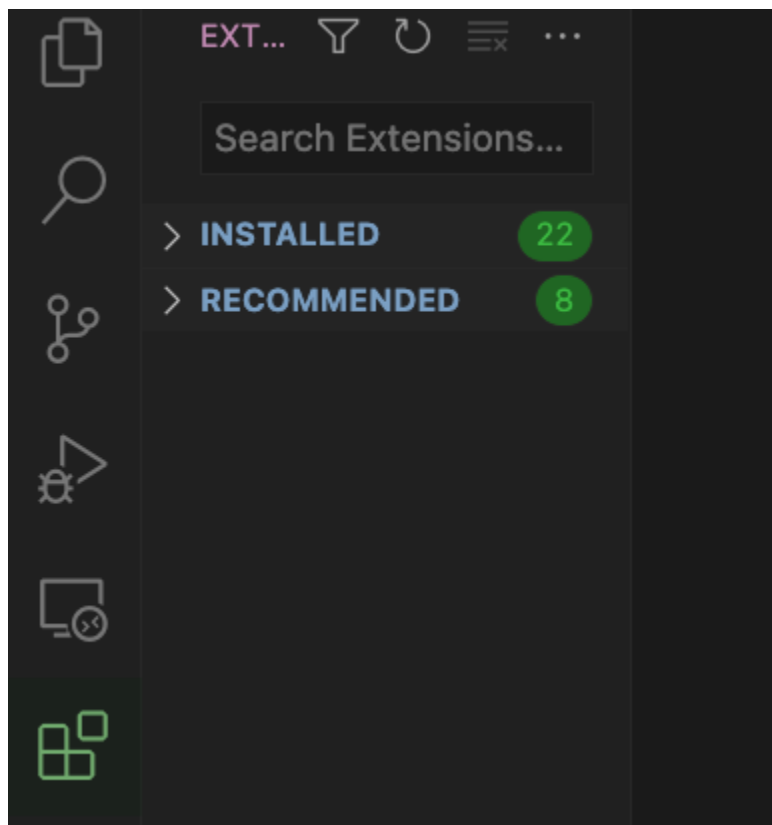
We are going to make a simple application that consists of a single page. We will be using HTML, which stands for Hypertext Markup Language, to create our page. The documents can be found here: [HTML: HyperText Markup Language](#).

We will also be using CSS, which stands for Cascading Style Sheets, to add styles to our page. The documents can be found here: [CSS: Cascading Style Sheets](#).

Vscode is a program that we will be using to write our code. [Download Visual Studio Code](#)

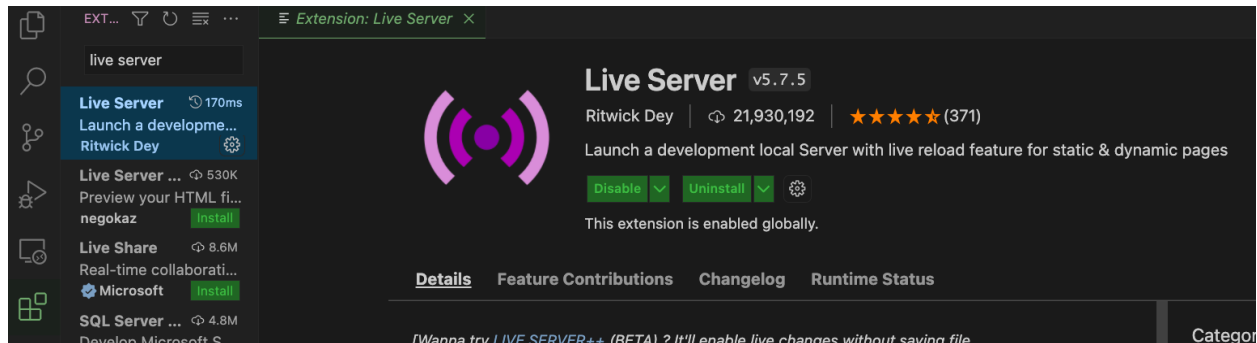
Setup:

- Open up VSCode
 - On the left navigation bar click on the symbol with 4 squares in the bottom left corner

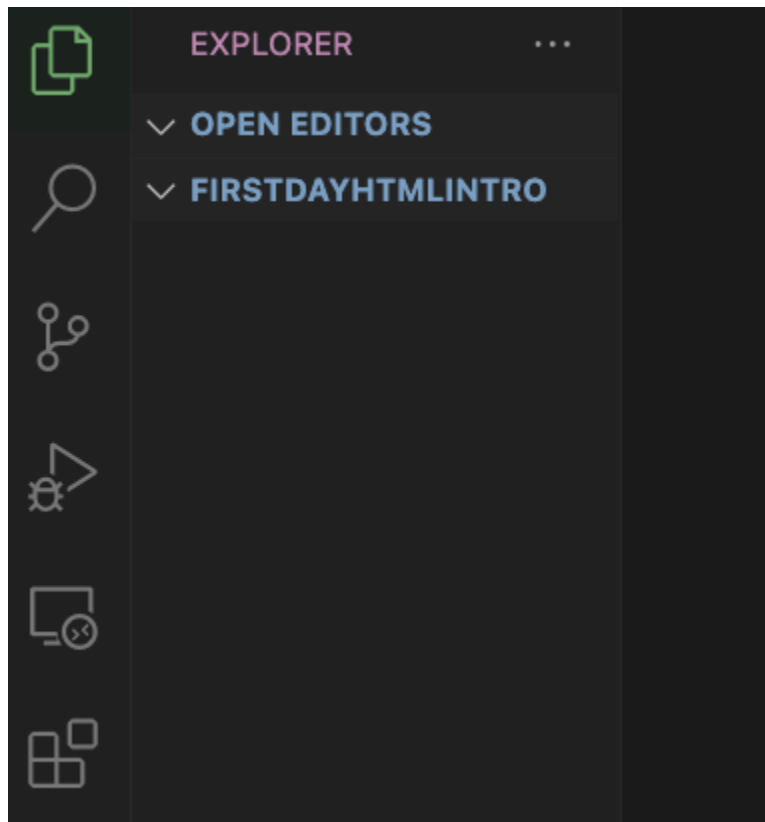


- This will open up a menu where you can search for VSCode extensions.

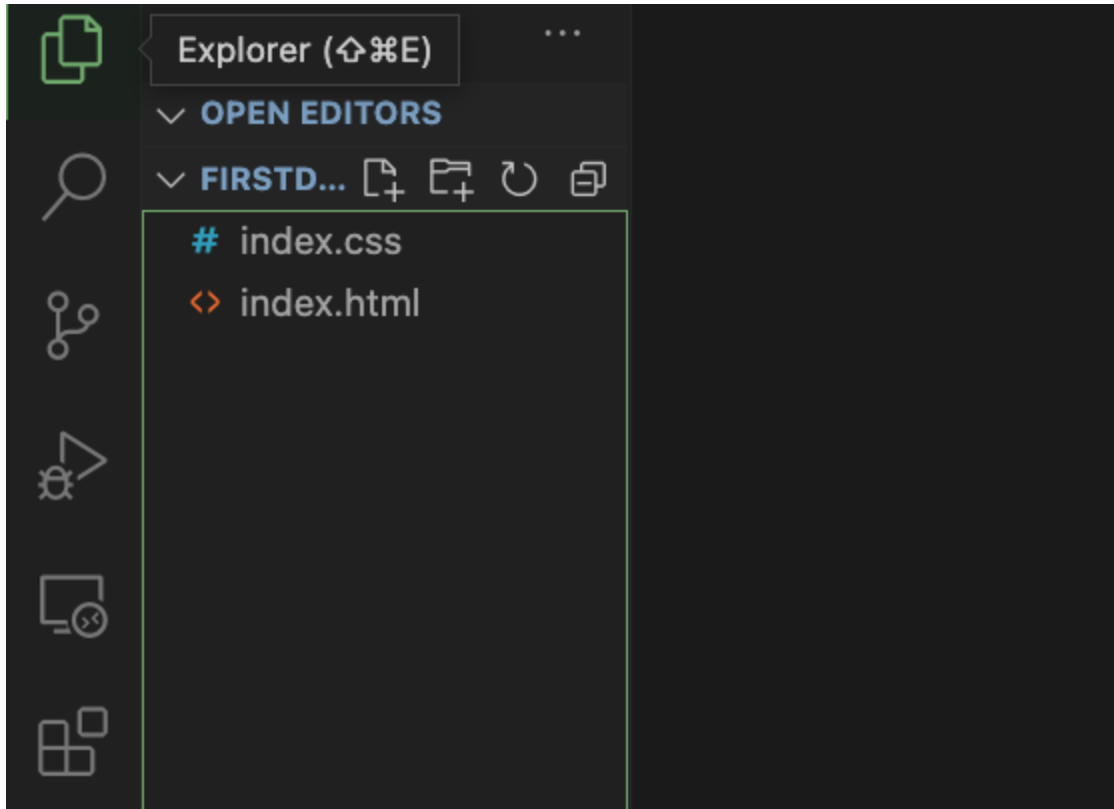
- In the “Search Extensions” form, type in **Live Server** and click **Install**
- After installing it, a window should pop up with information about the extension.



- Navigate back to the file structure which can be accessed by clicking on the two pages that are at the top of the left nav bar.



- Now create the files:
 - Make a file called **index.html**
 - Make a file called **index.css**



- Then, in VSCode, click on the index.html file that you just created.
 - In the file click **shift + 1**, then hit **enter**, this should create an html template
 - Next, in between the <head> </head> tags paste this code:
 - `<link rel="stylesheet" href="index.css">`
 - The above code will connect our index.css to our index.html, which will allow us to style our app.

At this point your **index.html** should look like this:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="index.css">
  <title>Document</title>
</head>
<body>
  </body>
</html>
```

HTML basics:

We will be going into greater detail about HTML and CSS in later lessons, however for today we will briefly talk about HTML.

- When we write HTML we create **elements** by writing **tags**.
- In our code we have several **tags** already made, one of which is the **<body></body>** tag. We will be writing our code between these two tags
 - The documentation for the **<body></body>** tag can be found here:
[<body>: The Document Body element](#)

Writing some HTML:

Now we are going to add a header (<h1>) and two paragraph (<p>) tags

- It is best practice to only have one <h1></h1> tag on a page and it should concisely describe the overall purpose of the content.
 - [<h1>–<h6>: The HTML Section Heading elements](#)
- You can use as many <p></p> tags as you need. This tag represents a paragraph.
 - [<p>: The Paragraph element](#)

Create the following tags in your **HTML** page in between the <body></body> tags:

```
<h1>My first html page</h1>
<p>I am a student</p>
<p>I love to learn!</p>
```

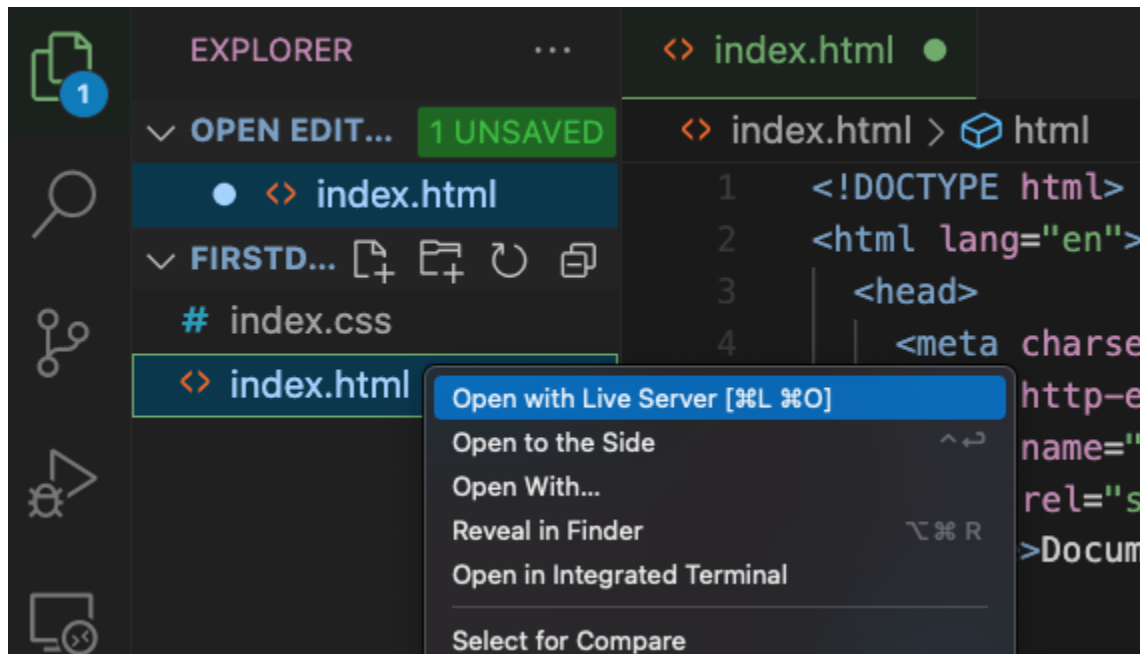
Your **<body>** tags should now look like this:

```
<body>
  <h1>My first html page</h1>
  <p>I am a student</p>
  <p>I love to learn!</p>
</body>
```

Seeing our HTML:

It is now time to run the HTML page. Earlier we downloaded an extension called LiveServer. This extension will allow us to quickly run our HTML.

- Right click on the index.html file and click on the **Open with Live Server** button.
- This will open a browser window and display your code.



- The browser should look something like this:

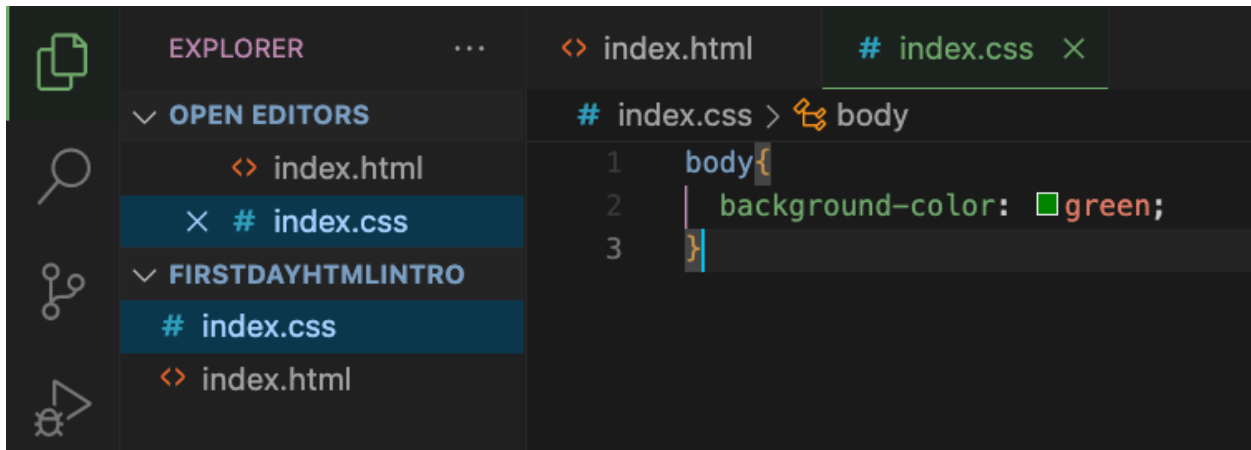


- We have words on our page! Congratulations! Next we are going to add some color to make it interesting.

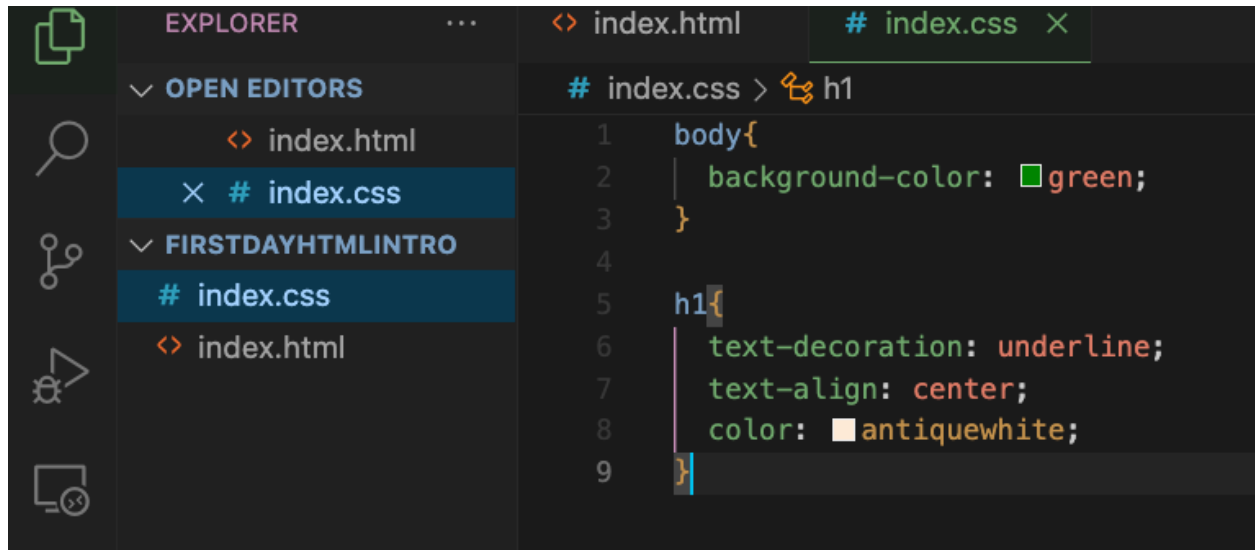
Adding CSS:

There are different ways of changing the styles of our page. Today we will directly target tags for changing our CSS.

- First, we are going to change the background color of our **<body></body>**
 - In order to do this we will click on our **index.css** page
 - Type in the name of the tag that we are targeting, which is **body**, and a pair of **{}**
 - We can write our styling choices inside of the **{}**
 - An example of this is:



- If you refresh the browser you will see an update to the background color. I chose to use green but you can choose any color you want. We also have the option of using hexadecimal colors.
- Next we will change the color and size of the **<h1>** tag.
 - In our CSS we will write the name of the tag that we are targeting, which is **h1**, and a pair of **{}**
 - We can write our styling choices inside of the **{}**
 - An example of this is:



- If you refresh the browser you will now see an update to the h1 color, it will be underlined and the text will be centered. Below are the links to the documentation for the three properties that we just changed.
 - [color](#)
 - [text-decoration](#)
 - [text-align](#)

There are **MANY** properties and combinations that can be used with CSS. At this point feel free to take what you have learned and play around with the file. Add additional tags, modify the tags we have, etc.

You have now made your first web page!!!