

Web Dev + Devops Cohort by 100xDevs

Goal

Make you incredibly solid at building and deploying Web apps.

Syllabus

Web Dev - <https://blog.100xdevs.com/Web-dev-6e1c515142e14347ae174c55e6c953c6>

Devops - <https://blog.100xdevs.com/Devops-39f1c2ef45e741e79b1f09f8793d6ad8?pvs=25>

TAs

Cohort Projects

1. <https://github.com/code100x/cms/> - Led by hsingh
2. <https://github.com/code100x/daily-code/> - Led by Sargam
3. <https://github.com/code100x/job-board> - Led by Vineet
4. <https://github.com/code100x/algorithmic-arena> - Led by Nimit
5. Framer like app - Up for grabs

Avoid the spikes

1. We will go slow, today only focussing on HTML/CSS/JS
2. Any topic that you feel is missing / you want we will do polls from time to time we can add
3. Go slow but stay consistent, avoid the spikes

What would I do if I was you?

1. Get to know people in discord, try to find a group of 3-4 motivated people.
2. Look at all the success stories here and how they got a job - <https://www.youtube.com/@100xDevs-n1w>
3. Repeated advise - GSoC is the best internship you can do. Already start prepping for it competition is high. Tell me how can I help here we're hoping for ~50 GSoC selections from the cohort this year. Good video to watch - <https://www.youtube.com/watch?v=OmzCvb-QBak>



We'll be covering things slowly in Cohort 3, so if you think things are going too slow you can

1. Participate in projects/hackathons
2. Sprint through Cohort 2.0

Select your level

Complete beginner (very basic/no coding before)

Things will be hard. You should spend ~20 hours/week atleast on Cohort material, assignments, other content covering what we're doing in the Cohort. Don't slack off

Intermediate (Done basic JS, HTML and some DSA)

You should be for the first ~10 weeks or so. We see major drop off after the first major project.

Try chewing some glass after week 10, that is where you will actually learn things that differentiate you from a typical MERN developer

Advance (Know MERN decent/well)

Feel free to drop off for the first few weeks. I'll see you on Github. Participate in the Superteam hackathon , aim for GSoC this year. Already start looking at orgs

Good things to hash out

1. Installing VSCode locally
2. HTML/CSS
3. Cloning the landing page of a simple website

VSCode Installation

Download from here - <https://code.visualstudio.com/>

When you open it locally, you should see something like this

HTML

HTML stands for hyper text markup language. It is the foundation of building **unstyled** websites.

Step 1 - Creating a simple HTML file locally

1. Create a folder on your machine called **website**
2. Add a **index.html** file inside it
3. Write the following code in it -

```
<html>
  <title>
    Visual Studio Code - Code Editor
  </title>
</html>
```

[Copy](#)

Now open this in your browser

Step 2 - Tags

1. div, span
2. head
3. body
4. h1, h2, h3, h4, h5, h6
5. b, i, u
6. a
7. img
8. input
9. button
10. br

Step 3 - Building a basic HTML page

```
<html>
  <title>
    Visual Studio Code - Code Editor
  </title>
</html>
<body>
  <div>
    <span>Visual Studio Code</span>
    <a href="/">Docs</span>
    <a href="/">Updates</span>
    <a href="/">Blog</span>
    <a href="/">API</span>
    <a href="/">Extensions</span>
    <a href="/">FAQs</span>
    <a href="/">Learn</span>

    <input type="text" placeholder="Search Docs">
    <button>Download</button>
  </div>
  <br/>

  <div>
    <a href="/">Version 1.82</a> is now available! Read about the new features at
  </div>

  <br/>
</body>
```

CSS

CSS stands for Cascading Style Sheets. It is used to style our applications

You can add CSS to your HTML app by using -

1. The `style` attribute (inline styles)
2. In an external css file

Approach #1 - Inline styles

Try updating the `body` tag in the last style as follows -

```
<body style="background-color: black;">
... rest of the code
</body>
```

Copy

Approach #2 - External styles

1. Add a new file called index.css
2. Add the following code in it

```
body {
  background-color: black;
}
```

Copy

- Update index.html

```
<html>
  <title>
    Visual Studio Code - Code Editor
  </title>
  <link rel="stylesheet" href="index.css">
</html>
<body>
... rest of the code
</body>
```

Copy

Common style attributes

- `color` : Sets the text color.
- `background-color` : Sets the background color.
- `font-size` : Sets the size of the text.
- `margin` : Sets the outer space around an element.
- `padding` : Sets the inner space within an element.
- `border` : Sets the border around an element.

Flexbox

Flexbox is a CSS layout model designed to help with the arrangement of items within a container.

Update the website to the following -

```
<html>
  <title>
    Visual Studio Code - Code Editor
  </title>
</html>
<body>
  <div style="display: flex;">
    <div>Visual Studio Code</div>
    <a href="/">Docs</span>
    <a href="/">Updates</span>
    <a href="/">Blog</span>
    <a href="/">API</span>
    <a href="/">Extensions</span>
    <a href="/">FAQs</span>
    <a href="/">Learn</span>
  </div>
  <div>
    <input type="text" placeholder="Search Docs">
    <button>Download</button>
  </div>
  <br/>

  <div>
    <a href="/">Version 1.82</a> is now available! Read about the new features at
  </div>

  <br/>
</body>
```

Notice that the elements are positioned right next to each other even though **Visual Studio code** is inside a **div**

Justify content

Try experimenting with the **justify-content** property

```
<html>
  <title>
    Visual Studio Code - Code Editor
```

```

    </title>
</html>
<body>
  <div style="display: flex; justify-content: space-between;">
    <div>Visual Studio Code</div>
    <a href="/">Docs</span>
    <a href="/">Updates</span>
    <a href="/">Blog</span>
    <a href="/">API</span>
    <a href="/">Extensions</span>
    <a href="/">FAQs</span>
    <a href="/">Learn</span>
  </div>
  <div>
    <input type="text" placeholder="Search Docs">
    <button>Download</button>
  </div>
  <br/>

  <div>
    <a href="/">Version 1.82</a> is now available! Read about the new features at
  </div>

  <br/>
</body>

```

Another example

```

<html>
</html>
<body>
  <header>

  </header>
  <section>
    <div style="border-width: thick; border-style: solid; display: flex; justify-con
      <div style="background: red; ">
        <h1>
          Code with GitHub Copilot
        </h1>
        <h2>
          Write code faster and smarter with GitHub Copilot, your AI pair prog
        </h2>

```

Try GitHub Copilot free for 30 days

Completions present suggestions automatically to help you code more effi

Copilot Chat understands the context of your code, workspace, extensions

Inline Chat enables you to iteratively generate edits and get answers to

```
</div>
<div style="background: green;">
  
</section>
<footer>

</footer>
</body>
```

Classes and ids

In CSS, classes and IDs are used as selectors to apply styles to HTML elements. They help in targeting specific elements for styling and can be used to enhance the modularity and reusability of CSS code.