

the Develop Course

{CODENATION}

First things first

Relax; I'm not always here to give you problems.

Learning Objectives

To be able to set up and use VS Code.

To be able to use CSS Flexbox to structure layouts.



Intro to Visual Studio **Code**

Set up and Use



Visual Studio Code

Remember **good** folder structure

Create a new folder for each project you work on

Activity

Let's create 3 files:

- `index.html`
- `main.js`
- `main.css`

You can either right click in the sidebar
or use the terminal command `touch`

**Let's just take a second to
compare these 3 files to
CodePen.**

HTML, CSS & JS

Setting up HTML

We can make use of **emmet HTML snippets** in Visual Studio Code.

This just **auto completes** a lot of the syntax for us.

- > Type **html** and you should be presented with a list of options.
- > Choose **html:5**



Setting up HTML

We should now have our HTML starter setup.

We need to link our CSS files and our JS files to our HTML file.

We use:

> <link>

> <script>



<link>

We put our <link> element inside the <head> element.

```
<link rel="stylesheet" type="text/css" href="main.css">
```

<script>

We can put our **<script>** tags in a few different places. For now we will put them inside the **<body>** element, at the bottom.

```
<script src="main.js"> </script>
```

Setting up **HTML**

Hoorahhhh!

Now our HTML, CSS & JS files are all linked up.



A few Notes

Using the browser

We have made good use of `console.log()` since the course began, and CodePen had a console built in. Now if you use `console.log()`, you must refer to the **console in the web browser**.

A few Notes

Using the browser

Let's install the **Live Server extension** on VS Code, so we can fire it up on our HTML file. This will open a new browser window with our HTML in. Every time you save the file, any changes will be updated.

A few Notes

Workflow

As you progress as developers, you must **make your life as easy as possible.**
If you work on a MacBook, connect to your second screen and have the browser on one, and VS Code on another.

A few Notes

Workflow

As you progress as developers, you must make your life as easy as possible. If you work on an iMac, split your screen into two or three, having the browser and VS Code side by side.

A few Notes

**Remember to always
save your files after you
edit code, shortcut:
command + S**

A few Notes

After all this set up – it turns out you can put your HTML, CSS and JS all in one file! I will show you how, but it's cleaner to put each in its own file.

A few Notes

Remember we can have as many JS files, CSS files and HTML files as we like in one project folder – as long as we link them all properly.

CSS Flexbox

2. flex-direction:

Inside the .container, add this :

flex-direction: row;



Then change to:

Flex-direction: column;



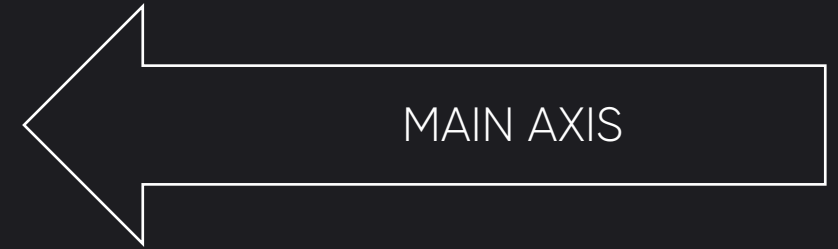
What happens?

CSS Flexbox

2. flex-direction:

Change to this:

flex-direction: row-reverse;



Then change to:

Flex-direction: column-reverse;



What happens?

CSS Flexbox

3. flex-wrap:

Add this to the .box class

```
.box {  
    width: 400px;  
}
```


CSS Flexbox

3. flex-wrap:

Inside the .container, add this:

flex-wrap: nowrap;

Change to this:

flex-wrap: wrap;

CSS Flexbox

3. flex-wrap:

We want to fill the space!

Inside the .box class – change the width to:

width: 33.3%

4. Ordering:

We want to even out the items, so add:

```
.box {  
    flex: 1;  
}
```

The order of each item is set to 0.
Let's set 4 to be order 1, add:

```
.box4 {  
    order: 1;  
}
```

Set 7 to be order 2, add:

```
.box7 {  
    order: 2;  
}
```

Activityordering

Add more orders to the boxes you have, see what happens.

In the bottom right corner, there are several large, light gray, rounded geometric shapes. These include a vertical bar and two curved segments, resembling parts of a stylized 'R' or a modern logo element.

5. Alignment with justify-content:



Inside the .container, try each of these one at a time:

justify-content: flex-start;

justify-content: flex-end;

justify-content: center;

justify-content: space-between;

justify-content: space-around;



Activity

CSS Flexbox



- } Inside .box, change font size to 20px.
- } Inside the .container, add:
flex-direction: column;
min-height: 100vh;



Activity

CSS Flexbox



} Experiment with each of these:

justify-content: flex-start;

justify-content: flex-end;

justify-content: center;

justify-content: space-between;

justify-content: space-around;

6. Alignment with items:



Inside container, set the align-items be center:

align-items: center;

What happens?



6. Activity

Inside container, set the height:

height: 100vh;

What happens?

6. Activity

Try these, one at a time:

align-items: stretch;

align-items: flex-start;

align-items: flex-end;

align-items: baseline;

6. Align-items: baseline



Let's change the font size:

```
.box1 {font-size: 30px;}
```

```
.box3 {font-size: 150px;}
```

```
.box4 {font-size: 200px;}
```

```
.box5 {font-size: 10px;}
```

```
.box10 {font-size: 77px;}
```



Align-items: baseline, change direction {CN}™

Inside the .container, add flex-direction to column.

Try each of these:

align-items: stretch;

align-items: center;

align-items: flex-start;

align-items: flex-end;

align-items: baseline;

7. Align-content:



Inside the container, add:

align-content: space-between;

Doesn't work? Add:

.box{width:33.3333%}

And inside .container, add:

flex-wrap: wrap;



Activity

CSS Flexbox



Experiment with each of these:

align-content: stretch;

align-content: flex-start;

align-content: flex-end;

align-content: space-around;

align-content: center;



8. Align-self



Align-items: flex-start; will let us to set to their height.
(default setting: stretch)

Let's set the padding be different:

.box2 {padding-bottom: 200px;}

.box6 {padding-bottom: 0;}

.box9 {padding-bottom: 50px;}



Activity

CSS Flexbox



Let's get one of these to align.

```
.box2 {padding-bottom: 200px;
```

```
  align-self: baseline;}
```

```
.box6 {padding-bottom: 0;
```

```
  align-self: center;}
```

```
.box9 {padding-bottom: 50px;
```

```
  align-self: flex-end;}
```

```
.box10 {align-self: stretch;}
```



9. flex property

We have set the .container to have **display: flex;**

Add:

```
.box {  
    flex: 1;  
}
```

Activity



Add:

```
.box4 {  
    flex: 2;  
}
```

What happened?

Activity

CSS Flexbox



Add:

```
.box2 {  
    flex: 3;  
}
```

What happened?



CSS Flexbox

<https://css-tricks.com/snippets/css/a-guide-to-flexbox/>



Revisiting Learning Objectives

To be able to set up and use VS Code.

To be able to use CSS Flexbox to structure layouts.