the Master Course

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Learning Objectives

To be able to use CSS Flexbox to structure layouts

The Basics

CSS

What is is?

Flexbox is a one-dimensional layout method for layout out items in rows or columns

It's NEW(ish)

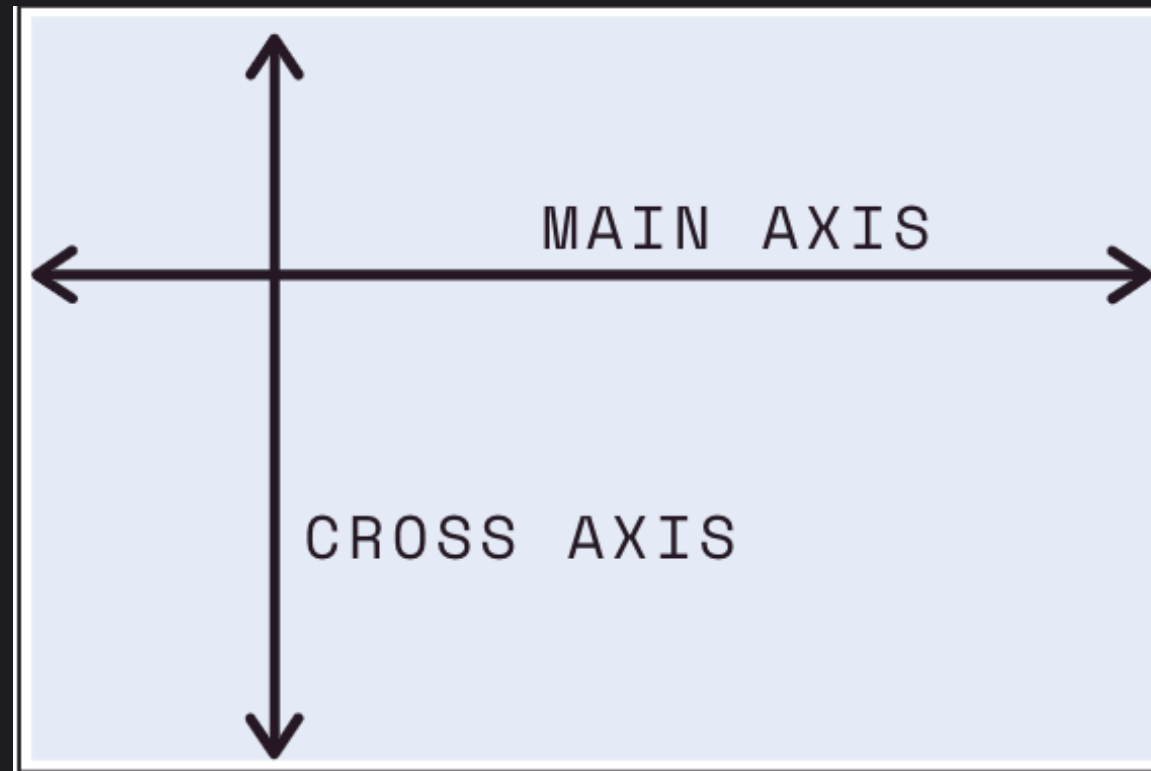Flexbox is a recent addition to CSS, included address common layout frustration

Why Flex?

Flexbox allows us to distribute space dynamically across elements of an unknown size, hence the term 'flex'

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Download the files and follow along!

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <link rel="stylesheet" href="style.css">
    <title>Flexbox</title>
</head>
<body>
    <div class="container">
        <div class="box box1">1</div>
        <div class="box box2">2</div>
        <div class="box box3">3</div>
        <div class="box box4">4</div>
        <div class="box box5">5</div>
        <div class="box box6">6</div>
        <div class="box box7">7</div>
        <div class="box box8">8</div>
        <div class="box box9">9</div>
        <div class="box box10">10</div>
    </div>
</body>
</html>
```

```css
@import url('https://fonts.googleapis.com/css?
family=Montserrat+Alternates:900');

* {box-sizing: border-box;}

.box {
    color: white;
    font-size: 100px;
    font-family: 'Montserrat Alternates', sans-serif;
    text-align: center;
    padding:15px;
}


/* Colours for each box */
.box1 { background:#eccc68;}
.box2 { background:#ff6348;}
.box3 { background:#ff7f50;}
.box4 { background:#ff4757;}
.box5 { background:#f1c40f;}
.box6 { background:#e67e22;}
.box7 { background:#2ed573;}
.box8 { background:#1e90ff;}
.box9 { background:#c56cf0;}
.box10 { background:#18dcff;}
```

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flex-direction is set to row as default. **Add this below.**

```css
.container{
    display: flex;
    min-height: 100vh;
    flex-direction: row;
}
```

FLEX DIRECTION


```
flex-direction: row-reverse;
```

FLEX DIRECTION

```
flex-direction: column;
```

```
flex-direction: column-reverse;
```

JUSTIFY CONTENT


```
justify-content: flex-start;
```

JUSTIFY CONTENT


```
justify-content: flex-end;
```

JUSTIFY CONTENT


```
justify-content: center;
```

JUSTIFY CONTENT

```
justify-content: space-between;
```

JUSTIFY CONTENT


```
justify-content: space-around;
```

ALIGN ITEMS


```
align-items: center;
```

ALIGN ITEMS


```
align-items: stretch;
```

ALIGN CONTENT


```
align-content:space-between;
```

ALIGN CONTENT


```
align-content:flex-start;
```

ALIGN CONTENT

ALIGN CONTENT

```
align-content:flex-end;
```

```
align-content:center;
```

ALIGN SELF

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

Flex Basis

...defines the initial size of an element before additional space is distributed

CSS

Flex Grow

...controls the amount of available space an element should take up. Accepts a unit-less number value

Flex Shrink

...if items are larger than the container, they shrink according to Flex Shrink

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Activity

Take a look at **Flexbox Froggy** (if you haven't already done so) and complete the levels.

Stretch

See if you can incorporate flex box into your **portfolio website.**

More info...

https://www.w3schools.com/css/css3_flexbox.asp

https://developer.mozilla.org/en-US/docs/Learn/CSS/CSS_layout/Flexbox