the Master Course

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Web Technologies CSS Flexbox

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Learning Objectives

To be able to use CSS Flexbox to structure layouts

The Basics



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?

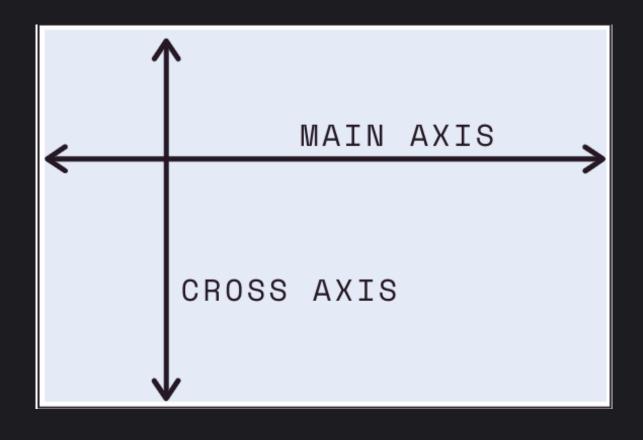
Flexbox allows us to distribute space dynamically across elements of an unknown size, hence the term 'flex'





The Flex Model





CSS

Download the files and follow along!



```
<!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>
```

```
@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;}
```



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

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



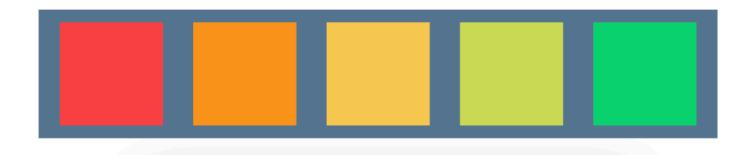


DENATION }

FLEX DIRECTION



FLEX DIRECTION



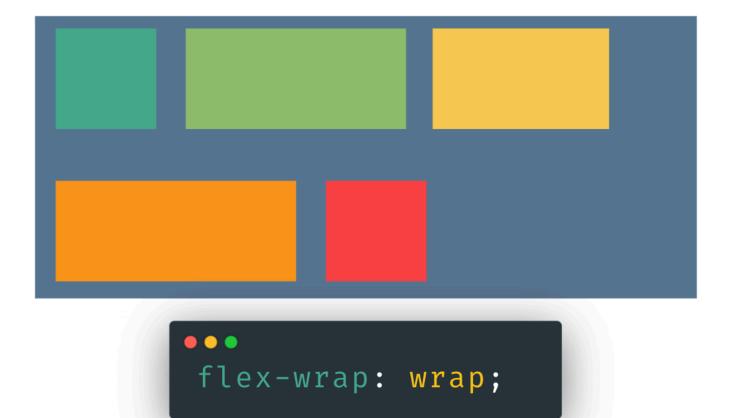
```
flex-direction: row-reverse;
```

FLEX DIRECTION

```
••• flex-direction: column;
```

flex-direction: column-reverse;

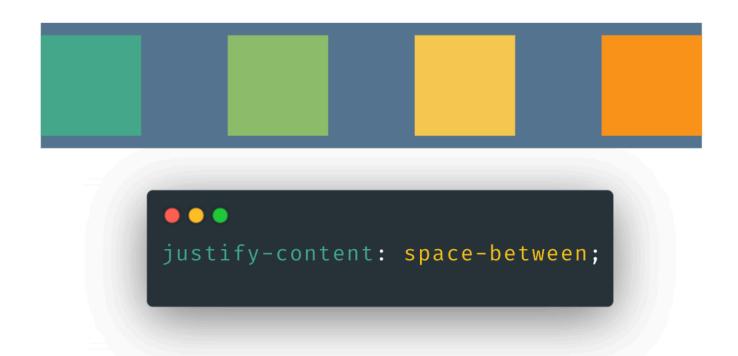
FLEX WRAP

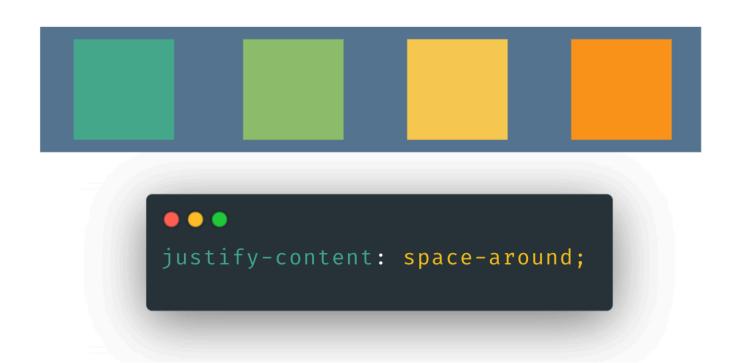




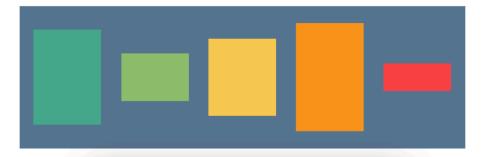






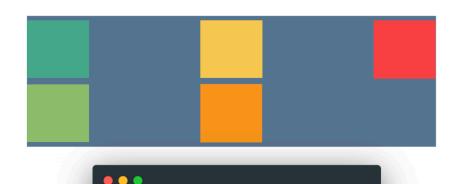


ALIGN ITEMS





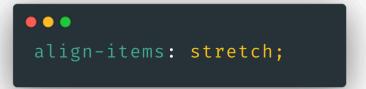
ALIGN CONTENT



align-content:space-between;

ALIGN ITEMS





ALIGN CONTENT

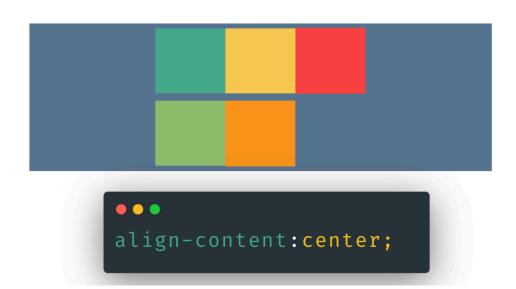


align-content:flex-start;

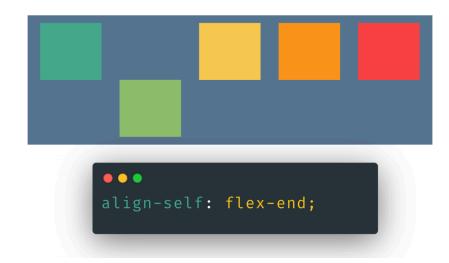
ALIGN CONTENT



ALIGN CONTENT



ALIGN SELF





CSS

A LOT of Flex

... lets look at some Flex Sizing

Flex Basis

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



...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





Activity

CSS

Take a look at **Flexbox Froggy** and complete the levels.



Stretch

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





CSS

More info...

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

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