

# INTRODUCTION TO CSS FLEXBOX

You'll love it!

# The Basics



## WHAT IS IT?

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



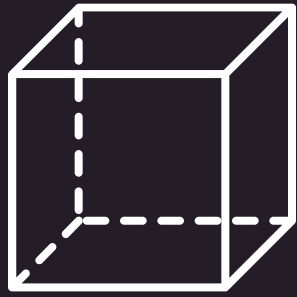
## IT'S NEW(ISH)

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

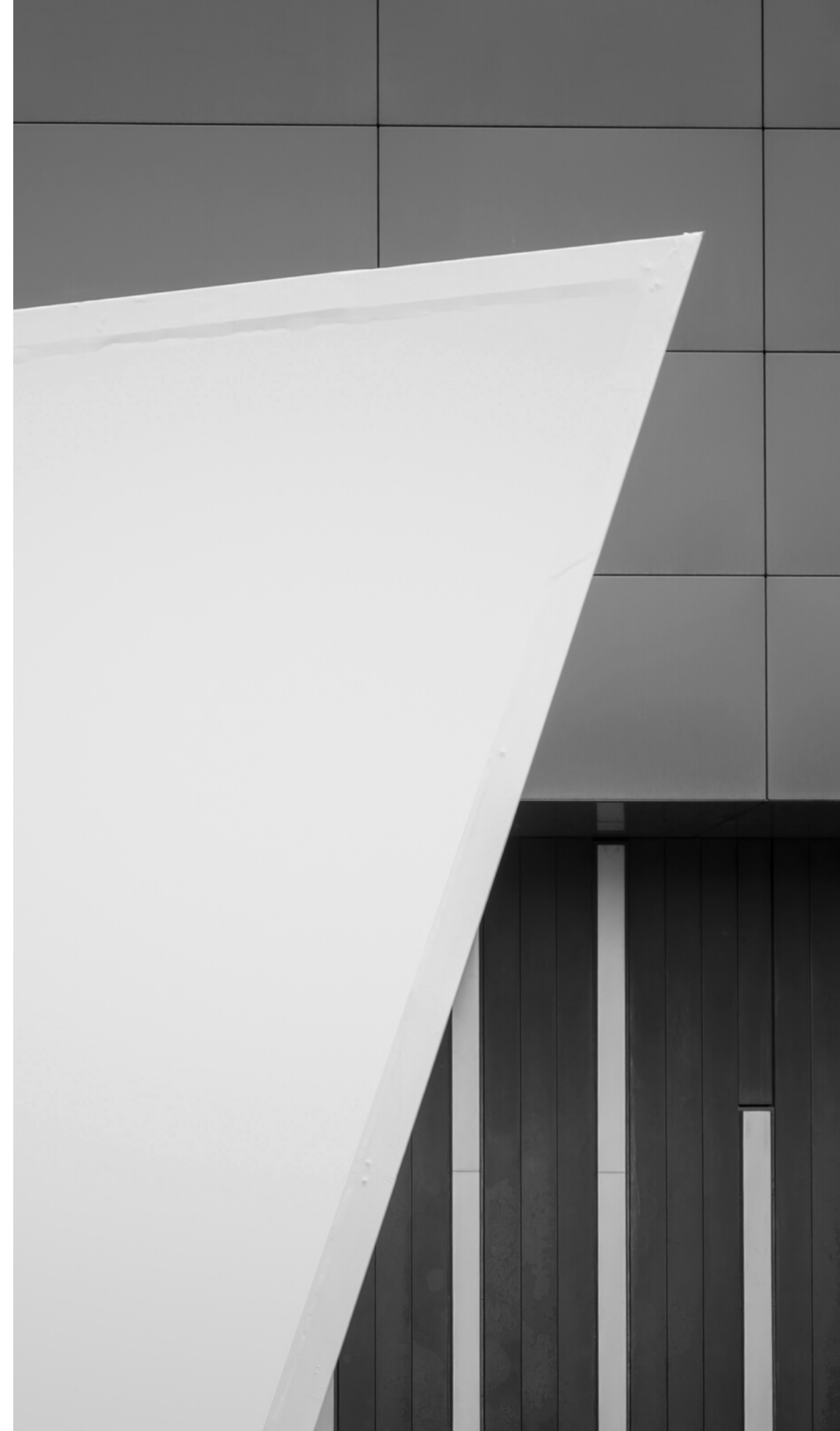
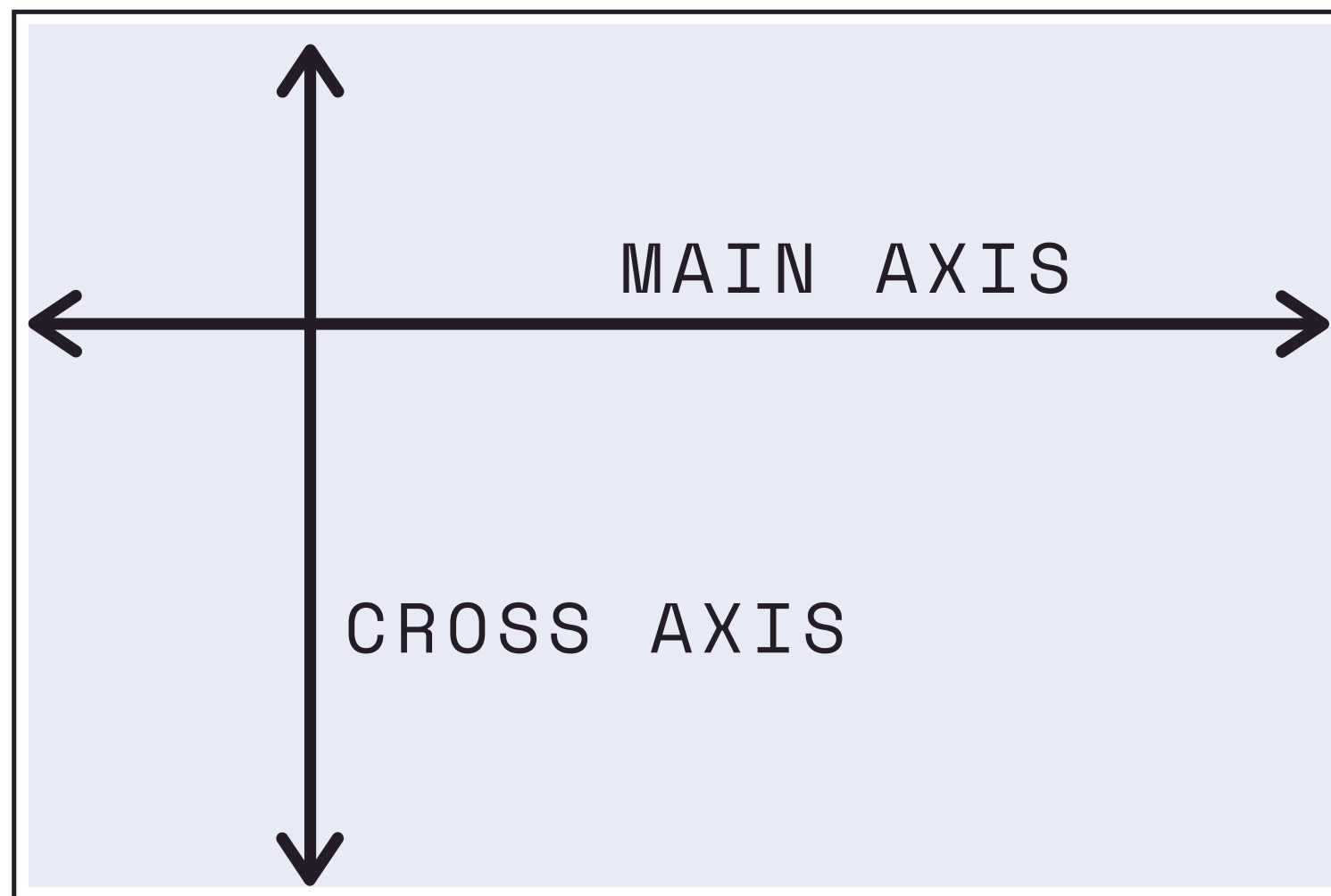


## WHY 'FLEX'?

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



# The Flex Model



# FLEX DIRECTION



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

# FLEX DIRECTION



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

# FLEX DIRECTION



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



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



# FLEX WRAP



```
flex-wrap: wrap;
```

# JUSTIFY CONTENT



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

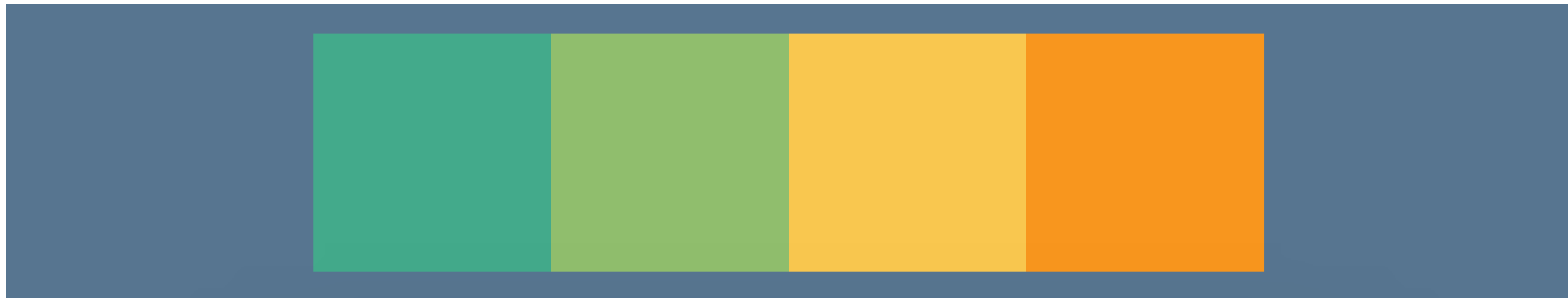


# JUSTIFY CONTENT



```
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: flex-start;
```

# ALIGN ITEMS



```
align-items: flex-end;
```

# 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: flex-end;
```

# ALIGN CONTENT



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

# ALIGN SELF



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

# Flex Sizing Properties



## **FLEX-BASIS**

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



## **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.

# RESPONSIVE DESIGN

what is it & why you should care



## THE PROBLEM

As mobile devices and tablets became widely available, developers had a problem...how do we create websites that look good on all screen sizes?



## ONE APPROACH

Early on, it was common to create separate stylesheets for different devices, or even completely different websites for each size.



## ENTER RESPONSIVE

These days, we typically create ONE website and stylesheet that is able to respond to different device sizes and features.

# MEDIA QUERIES

Media queries allow us to modify our styles depending on particular parameters like screen width or device type.





```

@media (max-width: 800px) {
  .sidebar {
    display: none;
  }

  .main {
    width: 80%;
  }
}

@media (min-width: 30em) and (orientation: landscape) {
  #container {
    flex-direction: column;
    justify-content: center;
  }
}

```

# MEDIA QUERIES