

Styling in CSS



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Overview



What Will We Cover?

- What are Styles?
- CSS
- Box Model
- Selectors
- Position
- Display
- Flex
- Grid



What Is Styling?





What Is Styling?

- Setting Properties to change the Look
- Properties are name/value pairs
- Can be used in a variety of ways



```
background-color: blue;
```

```
font-family: 'Open Sans', sans-serif;
```

```
border: 1px solid #808080;
```

```
padding: 4px;
```

```
padding: 4px 8px;
```

```
padding: 4px 8px 6px 9px;
```

```
padding-left: 8px;
```

◀ **Simple property**

◀ **Multi-valued property**

◀ **Multi-part property**

◀ **Directional properties**

◀ **Vertical and Horizontal**

◀ **All four directions**

◀ **Individual Direction**

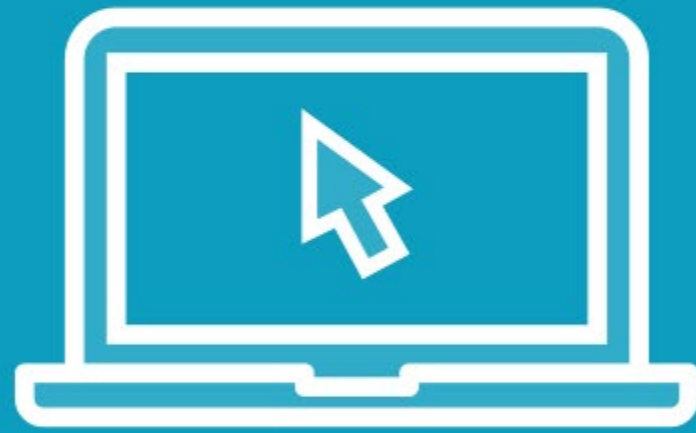
```
body {  
    font-size: 11px;  
    color: white;  
}
```

◀ Rule (container for properties)

◀ Property

◀ Property

Demo



What are Styles?



Cascading Style Sheets (CSS)




```
body {  
    font-size: 11px;  
}
```

◀ Rule (container for properties)

```
body {  
    font-size: 12px;  
}
```

◀ Later property wins

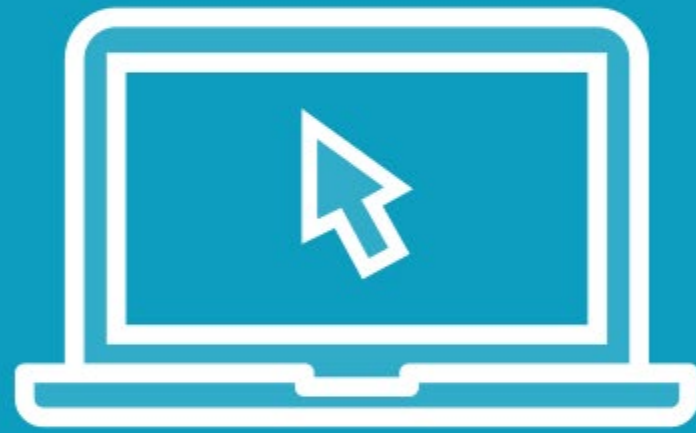
```
body {  
    font-size: 11px;  
}
```

```
h1 {  
    font-size: 18px;  
}
```

◀ **Less specific or higher in hierarchy**

◀ **More specific or lower in hierarchy win**

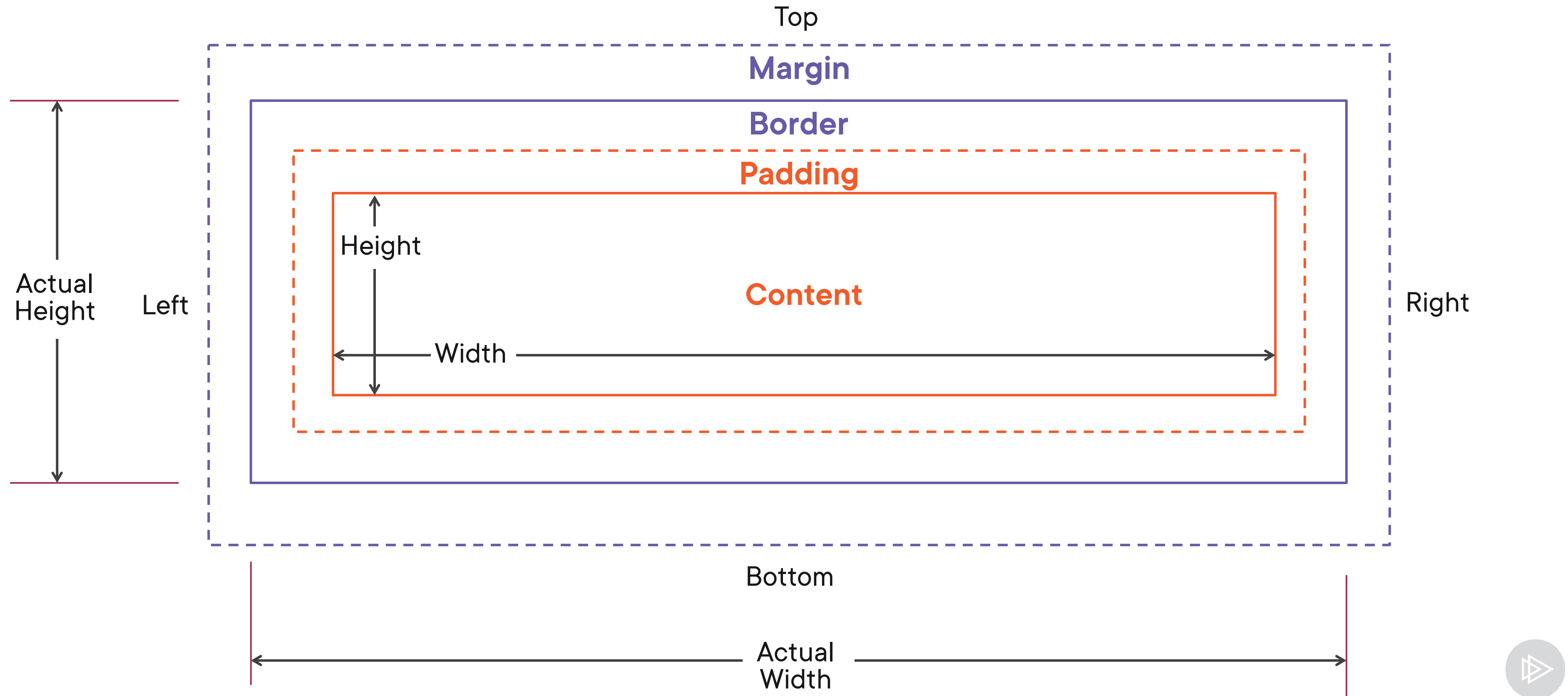
Demo



Cascading Style Sheets



The Box Model



Demo



Box Model



CSS Selectors



```
body {  
}
```

- ◀ **Selector is the indicator before the braces**
- ◀ **Element names are just named**

```
body, h1 {  
}
```

- ◀ **Separate items by comma**

```
body h1 {  
}
```

- ◀ **Designates the hierarchy**

```
body < h1 {  
}
```

- ◀ **Designates direct children**

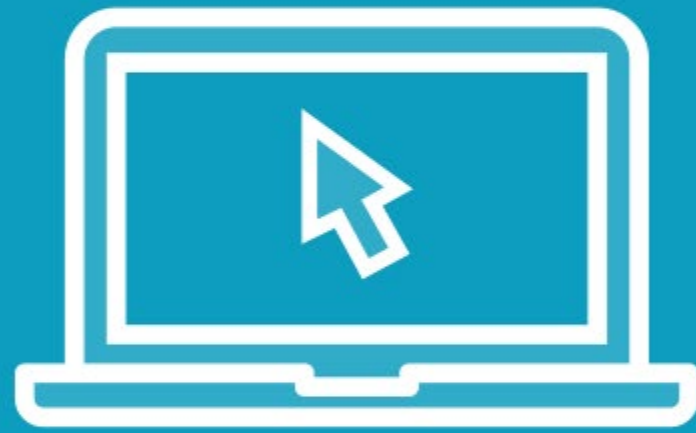

```
#someItem {  
  
}
```

◀ Indicates a single item by “id”

```
.someItem {  
  
}
```

◀ Indicates all items that have named class

Demo



Selectors



CSS Positioning



```
position: static;
```

```
position: relative;
```

```
position: absolute;
```

```
position: fixed;
```

- ◀ **Default behavior**
- ◀ **Relative to where it would be in static**
- ◀ **Specific position on the webpage**
- ◀ **Specific position on the browser window**

Demo



CSS Positioning



CSS Display Properties



```
display: block;
```

◀ Takes all of the horizontal space

```
display: inline;
```

◀ Takes specific width with items sharing space

```
display: hidden;
```

◀ Takes it's space but is not shown

```
display: none;
```

◀ Does not take any space and is not shown

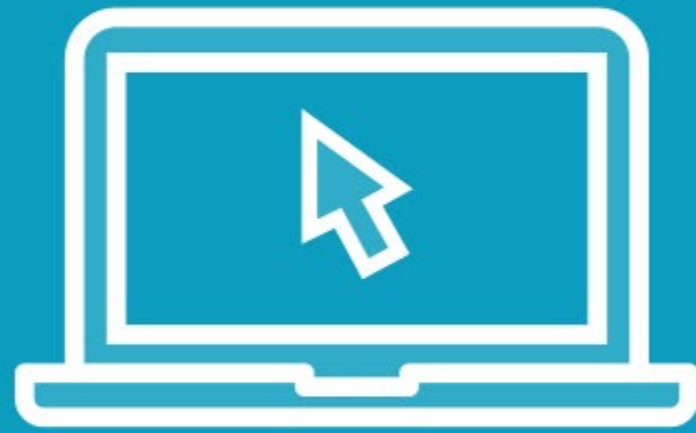
```
display: flex;
```

◀ Row/column based layout

```
display: grid;
```

◀ Allows specify site regions for elements

Demo



Display



Flexbox Display



display: flex;

child 1

child 2

child 3



display: flex; flex-direction: row;

child 1

child 2

child 3



display: flex; flex-direction: row-reverse;

child 3

child 2

child 1



display: flex; flex-direction: column;

child 1

child 2

child 3



display: flex; justify-content: flex-start;

child 1

child 2

child 3



display: flex; justify-content: flex-end;

child 1

child 2

child 3



display: flex; justify-content: center;

child 1

child 2

child 3



display: flex; justify-content: space-between;

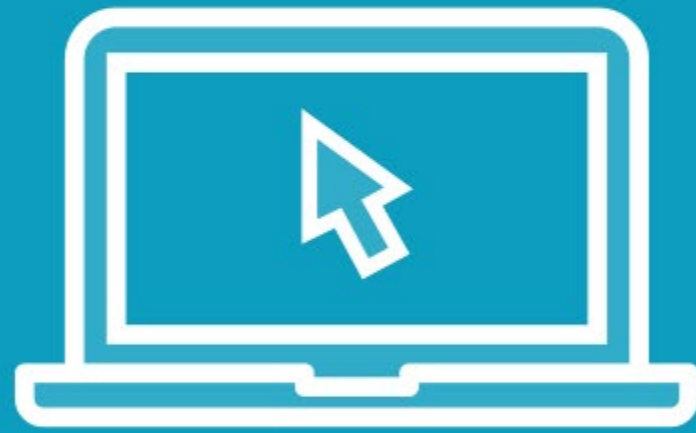
child 1

child 2

child 3



Demo



Flex



Grid Display



display: grid;

child 1

child 2

child 3

child 4

child 5

child 6



display: grid;

header

main

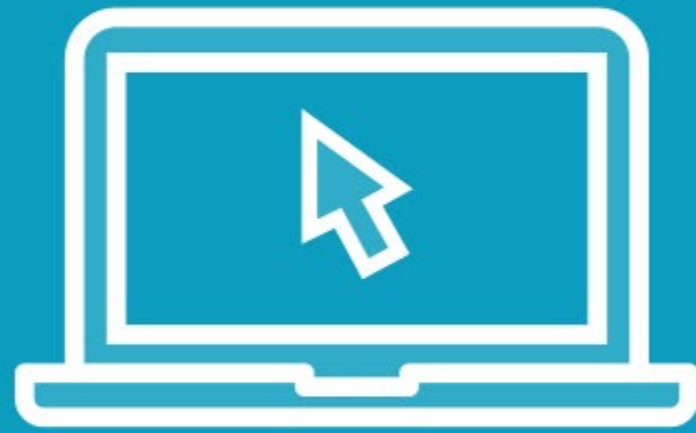
sidebar

footer

```
grid-template-areas:  
  "header header"  
  "main sidebar"  
  "footer footer";
```



Demo



Grid



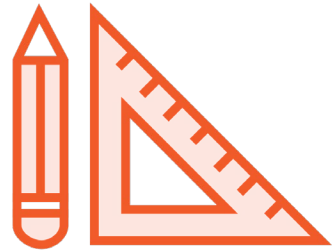


Styling Websites with CSS

Susan Simkins



Where Are We?



Styling is just a fancy word for properties



Cascading is an important understanding of how CSS works



Rich layouts are possible with CSS



Up Next: JavaScript

