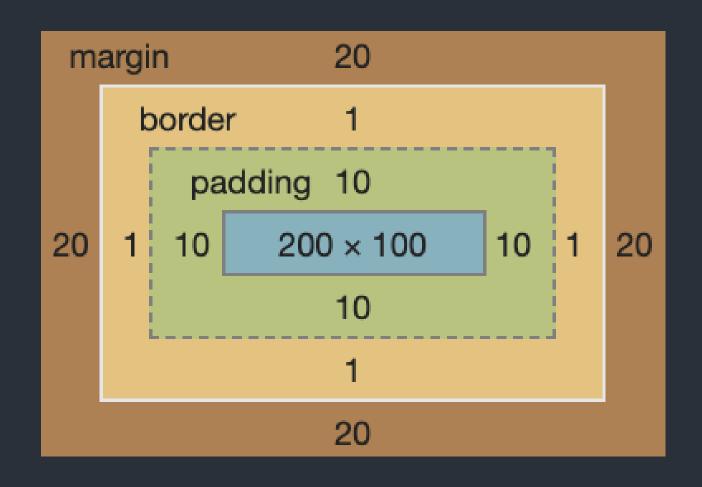
## CSS

(Cascading Style Sheets)

Layouts

#### Box model

Each element represented as a rectangular box for the rendering



```
<div class="box"><div class="content"></div></div></div></div></div></div>
.box {
    width: 50px;
    height: 50px;
    padding: 10px;
    margin: 10px;
    border: 5px solid blue;
    background-color: #aaa;
}
.content {
    height: 100%;
    background-color: red;
}
```

#### Block elements

Start with a new line and stretch to the full width of the container

Could contain block and inline elements

Some properties could be applied only to block elements (such as width, height, margin, padding...)

### Inline elements

Have the size of the content

Could contain only text and other inline elements

Don't break the flow

\*Inline-block - creates a block element (could use all the properties from the block element) which behaves in the flow as inline

```
<div>
  text before
  <span class="inline">
     inline
      <span class="inlineBlock">element</span>
  </span>
  text after
</div>
```

```
.inline {
    display: inline;
    color: red;
}

    text before inline element text after
.inlineBlock {
    display: inline-block;
    border: 5px solid blue;
}
```

# Display: none

Completely removes the element from the flow

# Visibility

Change visibility of the element, but keep it in the flow

```
<div>
  hide
  <span class="visibility">the element</span>
  and preserve the space
</div>
```

```
.visibility {
  visibility: hidden;
}
```

hide space and preserve the

## Float

Removes an element from the normal flow and puts it to the left/right of the container and allows to other inline elements wrap around it

```
<div>
  very very long long text
  <img src="cat.jpg" class="float"/>
  more of very long long text
  more of very long long text
</div>
```

```
.float {
   float: left;
   width: 50px;
}
```

very very long long text more of very long long text more of very long long text

## Static position

Positions an element based on the normal flow
Offset properties have no effect on it
The default value of the position property

```
<div class="container">
   Shows
   <span class="position">the position</span>
   of the element
</div>
```

```
.container {
   position: relative;
   border: 5px solid blue;
   padding: 20px;
}
.position {
   color: red;
   position: static;
   top: 20px;
   left: 20px;
}
```

Shows the position of the element

# Relative position

Positioned an element based on the normal flow
Offset properties will apply on it based on its default position

```
<div class="container">
   Shows
   <span class="position">the position</span>
   of the element
</div>
```

```
.container {
   position: relative;
   border: 5px solid blue;
   padding: 20px;
}

.position {
   color: red;
   position: relative;
   top: 20px;
   left: 20px;
}
```

Shows of the element the position

# Absolute position

Removes an element from the normal flow

It will be positioned by the offset properties based on the closest parent

element with not static position

```
<div class="container">
   Shows
   <span class="position">the position</span>
   of the element
</div>
```

```
.container {
   position: relative;
   border: 5px solid blue;
   padding: 20px;
}

.position {
   color: red;
   position: absolute;
   top: 0;
   left: 0;
}
```

the position
Shows of the element

## Fixed position

Removes an element from the normal flow

Offset properties will apply on it based on the viewport

```
<div class="container">
   Shows
   <span class="position">the position</span>
   of the element
</div>
```

```
.container {
   position: relative;
   border: 5px solid blue;
   padding: 20px;
}

.position {
   color: red;
   position: fixed;
   top: 0;
   left: 0;
}
```

#### the position

Shows of the element

## Overflow

Sets how an element will show its content when it overflows the edges

visible - content will be rendered outside the edges (default value)
hidden - hide the content outside the edges. Doesn't allow to scroll
auto - hide the content outside the edges, but allows scrolling to the hidden content
scroll - hide the content outside the edges. Always show scrollbars, even when content fits the element

```
<div class="overflow">
  very very long long text
  more of very long long text
</div>
.overflow {
  overflow: visible;
  width: 100px;
  height: 100px;
  border: 5px solid blue;
}
```







# Helpful links

- https://www.w3.org/TR/CSS2/ specification
- https://caniuse.com checks the browsers support of the css properties
- https://developer.mozilla.org/en-US/docs/Web/CSS/Reference documentation from Mozilla corporation
- https://csstriggers.com checks what property triggers while rendering
- https://css-tricks.com the portal with bunch of helpful tricks and articles