Box model

Margin
Border
Padding
Content

content-box

border-box

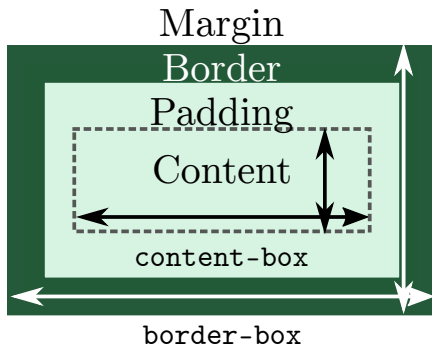## Common HTML Tags

name   attribute(s)

```
<p class="my-class"> ← opening
    Some text        ← contents
</p> ← closing
```

Paragraph

```
<p>Paragraph of text</p>
```

Styling

```
<em>Italic</em> and
<strong>bold</strong>
```

Image

```
<img src="image.jpg" />
```

Link *"anchor"*

```
<a href="http://google.com/">
    Link to Google
</a>
```

Headers

```
<h1>Huge</h1> <h2>Big</h2>
... <h6>Small</h6>
```

Freeform

```
<div></div>    (block) and
<span></span> (inline)
```

Semantic

```
<section>, <article>, and
many more
```

Comment

```
<!-- This will be ignored! -->
```

Grid Container

grid-template-columns	grid-template-rows
1fr 1fr 1fr	1fr 1fr 1fr
50px auto 50px	50px auto 90px
20% 20% auto	100px auto 20%

```
.Container {
  display: grid;
  grid-template-columns: 50px auto 50px;
  grid-template-rows: 50px auto 90px;
}
```

Grid Child Positioning

	grid-column	grid-row
	2 / 3	
	2/ span 2	
		1 / 3
	1 / span 2	1 / span 2

```
.ChildElement {
  grid-column: 1 / span 2;
  grid-row: 1 / span 2;
}
```

CSS Selectors

Tag   `div { color: blue; }`

Class `.class-name { color: blue; }`

ID   `#id_name { color: blue; }`

Containment

```
/* Match all divs in #a */
#a div { color: blue; }
/* Divs immediately in #b */
#b > div { color: blue; }
/* Wildcard: anything in #c */
#c > * { color: blue; }
```

Pseudo-elements

```
h1:before { content: "-"; }
```

Pseudo-classes

```
/* First p margin */
p:nth-child(1) { margin: 10px; }
/* Striped table rows */
tr:nth-child(odd) { color: gray; }
```

CSS Examples

selector
declaration block

```
p {
    font-size: 16pt;
}
```

property   value

Text

```
p {
    font-size: 16pt;
    text-align: center;
    color: green;
    font-family: "Arial";
    font-weight: bold;
    line-height: 20px;
}
```

Sizing

```
div {
    height: 30px;
    width: 100%;
    margin-left: 20px;
    padding-top: 10px;
}
```

Block styling

```
span {
    background: yellow;
    border: 2px dotted green;
    border-radius: 10px;
}
```

CSS Animation

Animation & transition

```
.Link {
    transition: color 1s,
                padding-left 3s;
}
.Link:hover {
    color: green;
    padding-left: 20px;
}
```

Positioning & display tricks

```
/* Image floating in text */
img { float: left; }

/* Display as wide block*/
.a { display: block; }

/* Wrap inline with text */
.b { display: inline; }

/* Stack adjacently */
.c { display: inline-block; }
```