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 (aka *"anchor"*)

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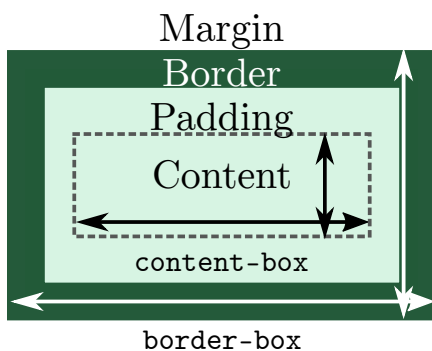
Headers

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

Freeform

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

Semantic

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

Comment

```
<!-- Ignored text -->
```

Box model

```
        Margin
        Border
       Padding
       Content
      content-box
      border-box
```

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

```
.highlighted-area {
     display: block;
     box-sizing: border-box;
     background: yellow;
     border: 2px solid green;
     border-radius: 10px;
}
```

Transition (animates properties)

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

CSS Display

block fill available width, word-wrap inline children (e.g. paragraph)
inline word-wrap (e.g. strong)
inline-block square block within word-wrapped text (e.g. emoji or icon)
flex line up children, control spacing
grid position children in grid

CSS Selectors

Tag   `div { color: blue; }`

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

ID   `#id_name { color: blue; }`

Containment (match children)

```
/* 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 (add content)

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

Pseudo-classes (match by position)

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

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-element {
display: grid;
grid-template-columns: 1fr 1fr 1fr;
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

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