

COMMON HTML TAGS

Paragraph

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

Styling

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

Image

```

```

Link

```
<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 Ignored by computer, but readable for humans. Useful for adding notes or temporarily removing parts of your code.

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

HTML TAG DIAGRAM

```

name  attribute(s)
  ↓      ↓
<p class="my-class"> ← opening
    Some text      ← contents
</p> ← closing
```

CSS RULE DIAGRAM

```

selector
  ↓
p { ← declaration block
  font-size: 16pt;
}
  ↑      ↑
property value
```

COMMON CSS STYLES

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;
}
```

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; }
```

COMMON 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: match all in #c */
#c > * { color: blue; }
```

KEY TERMS

Tech stack Set of technologies that a company uses. A “full stack” programmer works with all of them.

HTML & CSS The computer languages that powers the appearance of the web. HTML controls *content* and *structure*, while CSS handles *styling*.

Tag Special keywords that format and structure your webpage. An HTML element consists of an opening tag, contents (which can include other tags), and a closing tag.

CSS Rule Modifies the style of one or more HTML elements. Consists of a *selector* that matches elements in the HTML document, and a list of *declarations*, each consisting of a *property* and *value*.

BOILERPLATE

Boilerplate is stuff you have to copy and paste into new projects to get going, and rarely change. A basic HTML boilerplate is as follows:

```
<!DOCTYPE HTML>
<html>
  <head>
    <meta charset="utf-8">
    <title>My page</title>
  </head>
  <body>
    Hello world!
  </body>
</html>
```

BOOTSTRAP 4 - GRID

Use class `container` for a nice margin. Use class `row` for creating a new row in your grid. Use class `col-X` for different width columns.

```
<div class="container">
  <div class="row">
    <div class="col-4">
      1/3rd row width
    </div>
    <div class="col-6">
      Half row width
    </div>
    <div class="col-2">
      1/6th row width
    </div>
  </div>
</div>
```