




HTML & CSS

A Review of the
Fundamentals



HTML and CSS Definitions

HTML: Hypertext Markup Language (content display)

CSS: Cascading Style Sheets (appearance of display)

HTML/CSS are the “languages of the web”: Together they define both the content and aesthetics of a webpage, including layouts, colors, fonts, and content placement. (JavaScript is the language that deals with logic, decision making, etc.)



How do we write **HTML**?



HTML is the Structure of Display



HTML is a base language found on most every website.
It defines all of the basic content and a bit of formatting.

HTML Syntax (Basic)

↓ Content / Inner HTML

```
<h1>This is where the content goes</h1>
```

↑ Opening Tag

↑ Closing Tag

Displaying a link

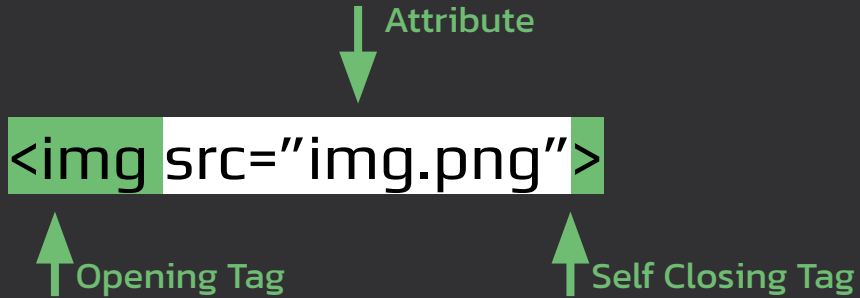
HTML Syntax (w/ Attribute) ↓ Attribute ↓ InnerHTML

```
<a href="www.google.com">Link</a>
```

↑ Opening Tag ↑ Closing Tag

Displaying an Image

Self-Closing Tags



Important Common Tags

Headings:

`<h1></h1>` Heading 1 (largest heading)
`<h2></h2>` Heading 2 (next largest heading)
`<h3></h3>` Heading 3

Containers:

`<html></html>` Wraps the entire page
`<head></head>` Wraps the header of the page
`<body></body>` Wraps the main content
`<div></div>` Logical container
`<p></p>` Wraps individual paragraphs

Others:

`` bold
`` emphasis
`` image
`<a href>` links
`` list items
`<title></title>` tab title
`
` line break
`<table></table>` tables
`<!-- -->` comments

Unreadable HTML

→ Invest time to get better at this now. It will pay dividends!

```
firstfile.html Quick.html
1 <!DOCTYPE html> <html> <head> <title>1.2.6 Exercise</title> </head>
  <body> <header>  <h1>Student Bio</h1> </
    header> <div> <section> <h2>Your Name</h2>  <p>Write a short paragraph
    or two about yourself, or use placeholder text from <a href="http://
    www.lipsum.com/">www.lipsum.com</a></p> </section> <section> <h2>
    Contact Info</h2> <ul> <li><strong>Email:</strong> <a href="#">
    someplace@gmail.com</a></li> <li><strong>Github:</strong> <a href="#">
    sampleName</a></li> <li><strong>Portfolio:</strong> <a href="#">
    coming soon</a></li> </ul> </section> </div> </body> </html>
```


Basic HTML Page



→ Readable code is easier to maintain.

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
  <head>
    <meta charset="utf-8">
    <title>My Beautiful Website!</title>
  </head>
  <body>

    <h1>Awesome Header</h1>
    <h2>Another header, only smaller</h2>
    <h3>Even smaller header than the last</h3>

    <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.</p>

    <h3>Links to things</h3>
    <ul>
      <li><a href="http://www.google.com">Google</a></li>
      <li><a href="http://www.twitter.com">Twitter</a></li>
      <li><a href="http://www.instagram.com">Instagram</a></li>
    </ul>

  </body>
</html>
```

Basic HTML Page: Result

Awesome Header

Another header, only smaller

Even smaller header than the last

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.



Links to things

- [Google](#)
- [Twitter](#)
- [Instagram](#)

Basic HTML Page: Result

Awesome Header

Another header, only smaller

Even smaller header than the last

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Links to things

- [Google](#)
- [Twitter](#)
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Boring



How do we write **CSS**?



CSS is the Style

CSS works by hooking onto selectors added into HTML using classes and identifiers.

Once hooked up, we apply styles to those HTML elements using CSS.

```
h1 {  
    background-color : yellow ;  
}
```

CSS is the Style

In the following example, the header would become blue and much larger because of the CSS.

We can incorporate an element's class or ID to apply a CSS style to a particular part of the document. Just remember to include the necessary symbol before the CSS: "." for class, "#" for ID.

Example (HTML)	Example (CSS)
<pre><p class="bigBlue">Hello World</p></pre>	<pre>.bigBlue { font-size: 100px; color: blue; }</pre>

Enter CSS

```
#all {
  background-color: rgba(72, 209, 204, 0.5);
}

h1 {
  font-size: 60px;
  text-align: center;
  text-decoration: underline;
  background-color: lawngreen;
  color: white;
  text-shadow: 2px 2px #ff0000;
}

h2 {
  font-size: 40px;
  text-align: center;
  text-shadow: 2px 2px #ffffff;
}

h3 {
  font-size: 20px;
  text-align: center;
  text-shadow: 1px 1px #ffffff;
}
```

```
p {
  text-align: center;
  font-weight: bold;
  border-style: dashed;
  border-radius: 5px;
  border-color: plum;
}

ul {
  list-style-position: inside;
  border-style: dotted;
  border-radius: 3px;
  width: 100px;
  margin-left: auto;
  margin-right: auto;
}

img {
  display: block;
  margin-left: auto;
  margin-right: auto;
}
```

Key CSS Attributes

Font and Color

`color` sets color of text
`font-size` sets size of the font
`font-style` sets italics
`font-weight` sets bold

Alignment and Spacing

`padding(top/right/bottom/left)` space between content and border
`margin (top/right/bottom/left):` space between elements
`float (left/right)` pushes elements to one side

Background

`background-color` sets background color
`background-image` sets background image

Powerful Duo


Believe it or not, HTML and CSS are all you need to develop a vivid, full-blown website.

Enter CSS: Result



Enter CSS: Result





HTML and **CSS** are the
foundation that we will build
on as devs!

