

Required Tags and Directive

```
<!DOCTYPE html>
<html> ..... </html>
<head> ..... </head>
<title> ..... </title>
<meta charset='utf-8' />
<body> ..... </body>
```

Other Ubiquitous Tags

```
<style type='text/css'> ..... </style>
<script type='text/javascript'> ..... </script>
<a href='http://www.missioncollege.edu'>Mission College</a>
```

Other Frequently Used Tags

```
<h1> ..... </h1>
<h2> ..... </h2>
<p> ..... </p>
<ul> ..... </ul>
<ol> ..... </ol>
<li> ..... </li>
<div> ..... </div>
<span> ..... </span>
<img src='myphoto.png' />
```

Attributes

```
id='footer'
class='floatleft'
lang='en'
charset='utf-8'
value='42'
```

Self-closing tags

Note that the `<meta />` and `<input />` tags do not have closing tags. But they have an extra `/` at the end of the tag to indicate that the tag closes. This is called *shorttag* format.

Inline elements vs. Block Elements

Inline elements do not start a new line, and they take up only as much width as necessary. Examples: span, b, i, strong, em, img, a, button, input, label, select, textarea, sub, sup. Their display behavior can be changed from the default.

By default, **block elements** appear in a box that is as wide as the page and starts on a new line. Most other elements that those listed above are block elements. Their display behavior can be changed from the default.

Formatting tags

```
<b> ..... </b>
<i> ..... </i>
<strong> ..... </strong>
<em> ..... </em>
```

Tags for making tables

```
<table> ..... </table>
<tr> ..... </tr>
<td> ..... </td>
<th> ..... </th>
```

Tags for making interactive forms

```
<form> ..... </form>
<input />
<textarea> ..... </textarea>
<select> ..... </select>
```

A Minimal HTML web page

```
<!DOCTYPE html>
<html lang='en'>
  <head>
    <meta charset='utf-8' />
    <title>My web page</title>
  </head>
  <body>
    <h1>My web page</h1>
  </body>
</html>
```

CSS Styles

Format:

```
selector { attribute: value; attribute2: value2; attribute3: value3; ... }
```

Examples:

Select using a tag:

```
h1 { font-size: 1.5em; color: blue; background-color: orange; padding: 0.5em; }
```

Select using a class:

```
p.center { text-align: center; }
```

Select using an ID:

```
div#banner { padding: 1em; background-color: yellow; box-shadow: 2px 2px 2px gray; }
```

Where to put styles:

1. "Inline" within the applicable tag
2. In a <style> section at the top of the file
3. In a separate CSS file

Inline example:

```
<h1 style='color: brown;'>Brown as the human condition</h1>
```

Style section example:

```
<head>
  <style type='text/css'>
    h1 { color: chartreuse; }
  </style>
</head>
```

Separate file example:

```
<head>
  <style type='text/css'>
    @import "mystyles.css";
  </style>
</head>
```