



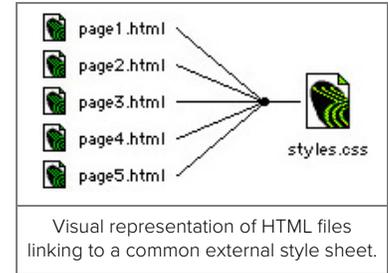
## Where CSS Rules Are Stored: Embedded & External Style Sheets

### Overview

- There are three main ways to store CSS rules: **Embedded**, **External**, and **Inline**.

### External Style Sheets

- All pages within a site **reference a common, centralized CSS file** for style information.
- When a browser reads an HTML document with an external style sheet, the style sheet code is included in that page when displayed.
- Allow you to alter a single file to make appearance changes throughout a site.
- Best for websites with more than a single page.
- File extension is `.css`



### Embedded Style Sheets

- Controls the appearance of **only the current page**.
- Style sheet is embedded in the `<head>` container of the HTML page.
- Site-wide type appearance changes are not possible when using this type.
- Good to use when a style rule is only used on the current page.

### Inline Styles

- Style sheet information is written directly to a tag that precedes the type to be formatted, either to the enclosing element, or within a `<span>` tag.
- Allows for the overriding of Embedded or External style sheets.
- Makes it **very difficult** to make page or site-wide formatting changes.
- Do not use inline styles unless absolutely forced to by the circumstances of your design/coding environment.**
  - When using some content management systems, for example.

### Code Examples:

#### Link to an External Style Sheet – HTML version

```
<head>
  <link rel="stylesheet" href="styles.css" type="text/css" media="all" />
</head>
```

#### Link to an External Style Sheet – CSS version

```
<style type="text/css">
  @import url("reset.css");
  @import url("styles.css");
</style>
```

#### Embedded – CSS is applied directly in the HTML (not preferred)

```
<head>
  <style type="text/css">
    h2      { font-family: Verdana, Arial; font-size: 1.6em; font-weight: bold; }
    #bodytext { font-family: Verdana, Arial; font-size: .8em; line-height: 15px; }
  </style>
</head>
```

## Tag Selectors

### Overview

- Allows you to change the appearance of standard HTML tags.
  - Tags like: `<h1>` `<h2>` `<h3>` `<p>` `<body>` `<li>` `<td>`
- Tag selectors are **the first choice** among the different selector types, since paragraph and header tags give a document its structure and hierarchy. *Style with these first.*
- Change to tags are global across the entire page—changing the appearance of the `<p>` tag will change all paragraphs in your Web page.
- **Multiple Tags**—You can control multiple tags at once by separating them with a *comma*.

### Code

```
p {
  color: red;
  font-size: 1.5em;
}

h1, h3, p {
  font-size: 2.275em;
  line-height: 1.5em;
}
```

## Descendant Selectors

### Overview

- Descendant selectors are the **most powerful type** of CSS rule, and the kind you will **use most often** when creating complete websites.
- They allow you to target and change specific areas of your page.
- It does this by using the document structure and hierarchy to create context.
  - For example, you can write a compound selector to say this: “Color the text red in a `<a>` tag that is inside of a `<ul><li>` list that is inside the `<nav>` tag with a class of ‘primary’.”

### Code

- Example HTML:

```
<header>
  <h2>Some Headline</h2>
  <p>Some paragraph text with a <strong>strong element</strong>.</p>
</header>
<footer>
  <p>This is a footer <a href="#">with a link</a>.
  <p>This is also some text with a <strong>strong element</strong>.</p>
</footer>
```
- For example, if you wanted to change the appearance of the `<h2>` tag in **ONLY** the `<header>` section of your page, you would create the following selector:

```
header h2 { ... }
```
- To change the appearance of hyperlinks ( `<a>` ) within paragraphs ( `<p>` ) only in the `<footer>` area:

```
footer p a { ... }
```
- To change the appearance of the `<strong>` tag in paragraphs ( `<p>` ) the `<header>` only:

```
header p strong { ... }
```

## CSS Properties Reference

### Visual Properties

- Properties that apply visual style to HTML elements

Name	Property	Description	Example CSS Code
Background Color	<code>background-color:</code>	Sets the background color of an element	<code>background-color: #dfdfdf;</code>
Element Border	<code>border:</code>	Creates a border around an element	<code>border: 1px solid #ccc;</code>
Rounded Corners	<code>border-radius:</code>	Rounds the corners of elements	<code>border-radius: 20px;</code>
Padding	<code>padding:</code>	Space between content and the edge of the box	<code>padding-left: 20px;</code> <code>padding-top: 13px;</code>
Margin	<code>margin:</code>	Transparent space around a content box	<code>margin-right: 45px;</code> <code>margin-bottom: 100px;</code>
Element Display Type	<code>display:</code>	Controls the display type of an element. In this example, the CSS code hides the element.	<code>display: none; /*Hides element*/</code>
Element Width	<code>width:</code>	Width of a block element	<code>width: 25em;</code>
Element Height	<code>height:</code>	Height of a block element; try not to use.	<code>height: 400px;</code>
Bulleted List Style	<code>list-style-type:</code>	Controls the appearance of bullets in <code>&lt;ul&gt;&lt;li&gt;</code> lists.	<code>list-style-type: circle;</code>