

If you have worked with styles in other programs, such as a word processor, you are already familiar with the basic function of CSS. In CSS, a style is simply a rule describing how to format content on a web page. A CSS (style sheet) is a collection of these rules.

About CSS rules

A CSS formatting rule consists of two parts: the selector and the declaration (or in most cases, a block of declarations). The *selector* is a term (such as `p`, `h1`, a class name, or an id) that identifies the formatted element. The *declaration* block defines the style properties. In the following example, `h1` (a heading tag) is the selector, and everything that falls between the braces (`{` and `}`) is the declaration block (defining the properties of the `h1` heading):

```
h1 {  
  font-family: Georgia, "Times New Roman", Times, serif;  
  font-size: 18px;  
  text-transform: uppercase;  
  color: #090;  
}
```

An individual declaration consists of two parts: the *property* (such as `font-family`) and *value* (such as `Georgia`). In the previous CSS rule, a particular style has been created for `h1` tags; the text for all `h1` tags linked to this style will be 18 pixels in size, Georgia font, and uppercase, and [color 090].

The style (which comes from a rule, or a collection of rules) resides in a place separate from the actual text it's formatting—usually in an external style sheet or in the head section of an HTML document. Thus, one rule for `h1` tags can apply to many tags at once (and in the case of external style sheets, the rule can apply to many tags at once on many different pages) (**Figure 2**). In this way, CSS provides extremely easy update capability. When you update a CSS rule in one place, the formatting of all the elements that use the defined style is automatically updated to the new style.

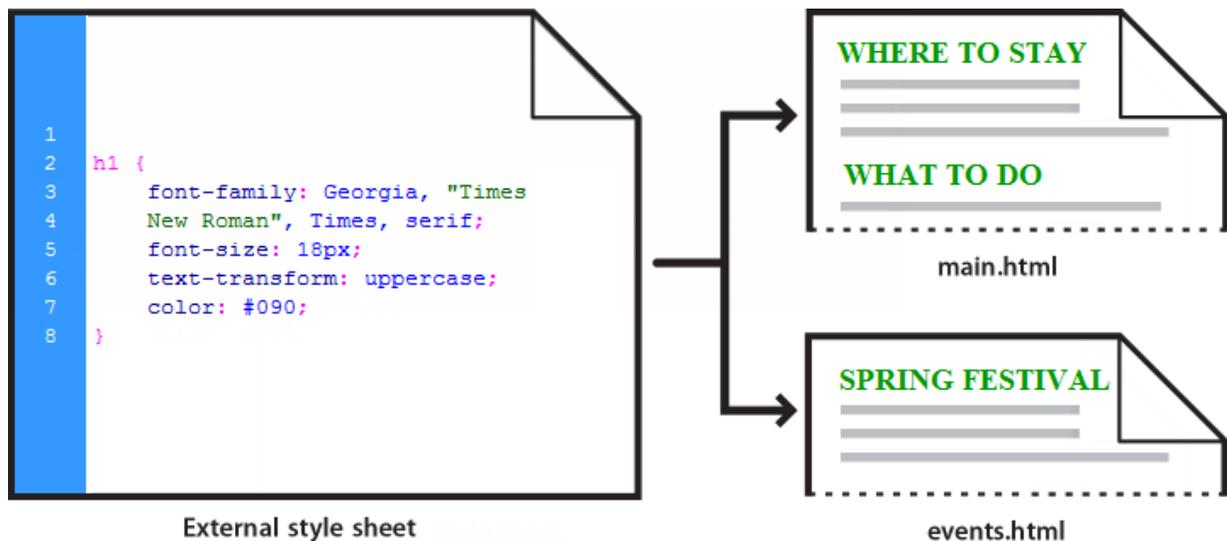


Figure 2 Updating a CSS rule in one place updates all elements

There are three main types of CSS:

Class style: Similar to the styles you use in word processing and page layout programs. For example, you may want to format all body text in 10-point, Arial, dark green type. You can create a class style with these attributes and then apply this style to all body text in your website. Class names must begin with a period and can contain any combination of letters and numbers (for example, `.myhead1`).

HTML tag style: Applies global formatting to individual HTML tags rather than to individual selections. Suppose you want to modify the Heading 1 paragraph style to appear always in purple text. Instead of creating a class style and applying it to every heading in the document, you can create an HTML tag style with these attributes and apply it to the Heading 1 `<h1>` tag. In effect, you are redefining the HTML tag.

ID style: A unique identifier (ID) for a style applied to headers, banners, menus, and other elements present in only one location in the document. Used once within a document or page. IDs must begin with a pound (#) sign and can contain any combination of letters and numbers (for example, #myID1).

CSS rules can reside in the following locations:

External CSS style sheets are collections of CSS rules stored in a separate, external CSS (.css) file (not an HTML file). You link this file to one or more pages in a website with a link or an `@import` rule in the head section of a document. For more information about how to work with external CSS files, see the *How to work with external Cascading Style Sheets* document

Internal (or embedded) CSS style sheets are collections of CSS rules included in a `style` tag in the head section of an HTML document.

Inline styles places the CSS style attribute inside the relevant tag throughout an HTML document. (Using Inline styles is not recommended because it mixes content with presentation. If this method is used, you should do so sparingly.)

Evolution of HTML and CSS

HTML and CSS are web standards that are constantly evolving.

HTML5 is the fifth iteration of HTML and adds tags to support multimedia elements and dynamic graphics in modern web browsers and across various devices. CSS3 defines a new set of modular rules for how HTML content is presented in web browsers.

In Dreamweaver, you can create and edit HTML5-based web pages. Dreamweaver provides code hints for HTML5 elements and CSS3 styles when you build pages in the Code View window. Starter layouts are also available for building HTML5 pages from scratch.

You should observe the following best practices when authoring HTML5 pages:

- Use `<!doctype html>` to tell browsers the web page is formatted with HTML5.
- Use `<meta charset="utf-8">` to tell browsers which character-set is in use in the document.
- Use the semantic markup tags `<article>`, `<section>`, `<header>`, `<nav>`, and others to bring a higher level of structural meaning to HTML5 documents.
- Design and test content across a range of browsers and devices that support HTML5 capabilities.

Review these HTML5 and CSS3 resources from the W3C:

- W3C HTML5 specifications: <http://dev.w3.org/html5/spec/single-page.html>
- HTML5 differences from HTML4: www.w3.org/TR/html5-diff/
- W3C CSS home page: www.w3.org/Style/CSS/