

Syntax and Selectors

Link Element

The link> element is used to link HTML documents to external resources like CSS files. It commonly uses:

href attribute to specify the URL to the external resource

rel attribute to specify the relationship of the linked document to the current document

type attribute to define the type of content being linked

Purpose of CSS

CSS, or Cascading Style Sheets, is a language that is used in combination with HTML that customizes how HTML elements will appear. CSS can define styles and change the layout and design of a sheet.

Write CSS in Separate Files

CSS code can be written in its own files to keep it separate from the HTML code. The extension for CSS files is .css. These can be linked to an HTML file using a link> tag in the <head> section.

Write CSS in HTML File

CSS code can be written in an HTML file by enclosing the code in <style> tags. Code surrounded by <style> tags will be interpreted as CSS syntax.

```
<!-- How to link an external stylesheet with href, rel, and type attributes --> <link href="./path/to/stylesheet/style.css" rel="stylesheet" type="text/css">
```

```
<head>
    link href="style.css"

type="text/css" rel="stylesheet">
</head>
```

```
<head>
<style>
h1 {
color: blue;
}
</style>
</head>
```

Inline Styles

CSS styles can be directly added to HTML elements by using the style attribute in the element's opening tag. Each style declaration is ended with a semicolon. Styles added in this manner are known as *inline styles*.

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```
<h2 style="text-align:
center;">Centered text</h2>
Blue, 18-point text
```

Separating HTML code from CSS code

It is common practice to separate content code in HTML files from styling code in CSS files. This can help make the code easier to maintain, by keeping the syntax for each file separate, and any changes to the content or styling can be made in their respective files.

Class and ID Selectors

CSS classes can be reusable and applied to many elements. Class selectors are denoted with a period . followed by the class name. CSS ID selectors should be unique and used to style only a single element. ID selectors are denoted with a hash sign # followed by the id name.

.column { } /* Selects element with id="first-item" */ #first-item {

/* Selects all elements with

class="column" */

Groups of CSS Selectors

Match multiple selectors to the same CSS rule, using a comma-separated list. In this example, the text for both h1 and h2 is set to red.

color: red; }

h1, h2 {

Selector Chaining

CSS selectors define the set of elements to which a CSS rule set applies. For instance, to select all $\,$ elements, the $\,$ p $\,$ selector can be used to create style rules.

Chaining Selectors

CSS Type Selectors

CSS class selectors

between each attribute.

CSS selectors can be chained so that rule sets apply only to elements that match all criteria. For instance, to select <h3> elements that also have the section-heading class, the selector h3.section-heading can be used.

CSS type selectors are used to match all elements of a

tag names. When using type selectors, elements are

matched regardless of their nesting level in the HTML.

The CSS class selector matches elements based on the

having calendar-cell as the value of the class

HTML attributes with multiple values

Multiple attribute values are separated by a space

Some HTML attributes can have multiple attribute values.

attribute, a . needs to be prepended.

contents of their class attribute. For selecting elements

given type or tag name. Unlike for HTML syntax, we do not include the angle brackets when using type selectors for

```
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```

```
/* Select h3 elements with the section-
heading class */
h3.section-heading {
  color: blue;
}
/* Select elements with the section-
heading and button class */
.section-heading.button {
  cursor: pointer;
```

```
Selector Specificity
Specificity is a ranking system that is used when there are
multiple conflicting property values that point to the
same element. When determining which rule to apply, the
selector with the highest specificity wins out. The most
specific selector type is the ID selector, followed by class
selectors, followed by type selectors. In this example, only
color: blue will be implemented as it has an ID selector
whereas color: red has a type selector.
```

```
/* Selects all  tags */
p {
7
.calendar-cell {
  color: #fff;
<div class="value1 value2 value3">
</div>
h1#header {
  color: blue;
} /* implemented */
```

h1 {

color: red;

} /* Not implemented */

CSS ID selectors



The CSS ID selector matches elements based on the contents of their id attribute. The values of id attribute should be unique in the entire DOM. For selecting the element having job-title as the value of the id attribute, a # needs to be prepended.

CSS descendant selector

The CSS descendant selector combinator is used to match elements that are descended from another matched selector. They are denoted by a single space between each selector and the descended selector. All matching elements are selected regardless of the nesting level in the HTML.

```
#job-title {
  font-weight: bold;
}

div p { }

section ol li { }
```