

Selectors and Combinators Cascading Style Sheets (CSS3)

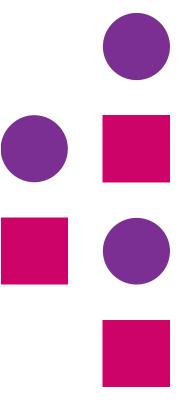
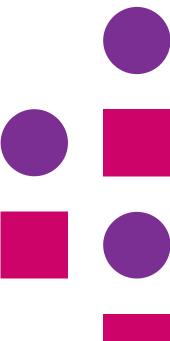




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The CSS selector

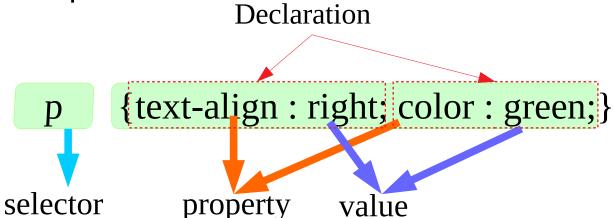
- The CSS selector points to the HTML element you want to style
- Selectors are the part of CSS rule-set
- CSS selectors select HTML elements according to its id, class, type, attribute etc
- The rule-set has 3 parts
 - Selector
 - Property
 - Value



Rule-set Syntax

Selector { property : value }

Example





Selectors

- Selectors tell the browser where to apply the rule
 - Element type Selector
 - ID Selector
 - Class Selector
 - Attributes Selector
 - Universal Selectors



Element Type Selector

 The element type selector selects element based on element name

Syntax:

Element-type-selector { property : value }



Element Type Selector

```
Example:
h1 {
  font-family: "Times New Roman";
  color: green;
}
```



ID Selectors

- ID selector must be unique for entire page
- ID selector is used to specify single element
- The Selector is created by prefixing ID with hash or pound sign (#)

Syntax:

```
#id-selector { property : value; }
```



ID Selectors

```
Example :
#p { font-size : 12px;
     color : blue;
}
```



Class Selectors

- Class selector is used to specify group of elements
- Classes are not unique
- We can use same class on multiple elements
- We can use multiple class on the same element
- Class selector is defined with dot (.)



Class Selectors

```
Syntax :
.class-selector { property : value; }
```

```
Example:
.my-class {
  font-size: 12px;
  color: blue;
}
```



- An attribute selector matches any element that has a particular attribute
- We can create an attribute selector by putting the attribute, optionally with a value, in a pair of square brackets
- Element type selector can also be placed before attribute selector

Note : some browsers might not support attribute selectors



```
Syntax:
[attribute] {
   name: val;
Element-type-selector [attribute] { /* optional element selector */
   name : val;
Element-type-selector [attribute operator "value" i] {
   name: val;
```

- [attr] Represents an element with an attribute name of attr
- [attr=value] Represents an element with an attribute name of attr whose value is exactly value
- [attr operator value i] Adding an i (or I) before the closing bracket causes the value to be compared case-insensitively (for characters within the ASCII range)
 - Operator : *=, ^=, ~=, |=, =, \$=



 Setting deep pink color to all the elements where title attribute is used

```
Example:

[title] { /* title as attribute selector */

color: deeppink;
}
```



 Setting deep pink color to all the paragraph elements where title attribute is used

```
Example:

p[title] { /* title as attribute selector */

color: deeppink;
}
```



 Setting yellow background-color and italic font-style to all input elements whose type attribute is set to email

```
Example:
input[type="email"] { /* no space between input and square bracket */
background-color: yellow;
font-style: italic;
}
```



 [attr~=value] - Represents an element with an attribute name of attr whose value is a whitespace-separated list of words, one of which is exactly value

```
/* All division in US English are blue */
div[lang~="en-us"] {
  color: blue;
}
```



- [attr|=value] Represents an element with an attribute name of attr whose value can be exactly value or can begin with value immediately followed by a hyphen (-)
 - It is often used for language sub-code matches

```
/* Matches the elements with lang attribute that has the values en, en-US, en-GB etc */
[lang|=en] {
    color: white;
    background: blue;
}
```

 [attr^=value] - Represents an element with an attribute name of attr whose value is prefixed (preceded) by value

```
/* Internal links, beginning with "#" */
a[href^="#"] {
 background-color: gold;
}
```



 [attr\$=value] - Represents an element with an attribute name of attr whose value is suffixed (followed) by value

```
/* Anchor elements with an href ending with ".org" */
a[href$=".org"] {
  font-style: italic;
}
```

 [attr*=value] - Represents an element with an attribute name of attr whose value contains at least one occurrence of value within the string

```
/* Anchor elements with an href containing "example" */
a[href*="example"] {
 font-size: 2em;
}
```



 [attr operator value i] - Adding an i (or I) before the closing bracket causes the value to be compared case-insensitively (for characters within the ASCII range)

```
/* Links with "big" anywhere in the URL,
regardless of capitalization */
a[href*="big" i] {
  color: cyan;
}
```



Universal Selector

- The CSS universal selector (*) matches elements of any type
- In CSS3 and later, the asterisk may be used in combination with namespaces
 - ns|* matches all elements in namespace ns
 - *|* matches all elements
 - |* matches all elements without any declared namespace



Universal Selector

```
Syntax :
* { property : value; }
```

```
Example :
 * {
    color : blue;
}
```



Universal Selector

- The asterisk is optional with simple selectors
- Example *.warning and .warning are equivalent



Grouping Selectors

- Elements with same style sheet can be grouped together to avoid repetition
- Element selectors are grouped by separating with comma (,)

```
Example:
h1, h2 {
   font-size: 12px;
   color: blue;
}
```







Child Combinator

 The > combinator selects nodes that are direct children of the first element

```
Syntax: E1 > E2 { . . . }
Example:
div > ul {
  color: green;
}
```



Adjacent Sibling Combinator

- The + combinator selects adjacent siblings
- This means, second element immediately follow the first, and both share the same parent

```
Syntax : E1 + E2 { . . . }
Example :
div + p {
   color : blue;
}
```



General Sibling Combinators

- The ~ combinator selects siblings
- This means that the second element follows the first (though not necessarily immediately), and both share the same parent

```
Syntax: E1 ~ E2 { . . . }

Example:
div ~ p {
  color: green;
}
```



Descendent Combinator

 The space combinator selects nodes that are descendants of the first element

```
Syntax : E1 E2 { . . . }

Example :
div p {
  color : green;
}
```









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