CSS Selectors Level 3

**Definition**

Selectors are **(2)patterns** that are used in CSS to select an **(1)element** in an xml or html file and specify a style for the selected elements.

1. An *element* usually consist of a start tag , a content and an end tag.

Example: (to label the parts)

<title>Web System and Technologies</title>

<p>Enter a paragraph</p>

2.Selectors follow the *pattern* :

One or more sequence of simple selectors separated by combinators and an optional pseudo-element that may be appended to the last sequence of the simple selector

* A sequence of simple selectors is a chain of simple selectors that are not separated by a combinator. It always begins with a type selector or a universal selector. No other type selector or universal selector is allowed in the sequence. (W3C Candidate Recommendation)
  + A simple selector is either a type selector, universal selector, attribute selector, class selector, ID selector, or pseudo-class.
* The following may be used as a combinator

Whitespace, > , +, ~

* + Whitespace:Only the characters "space" (U+0020), "tab" (U+0009), "line feed" (U+000A), "carriage return" (U+000D), and "form feed" (U+000C) can occur in whitespace. Other space-like characters, such as "em-space" (U+2003) and "ideographic space" (U+3000), are never part of whitespace.
* Pseudo elements are used to select contents of an element.

Example meaning

::first-line can refer to a first line of a

::lastline ….

::firstchild ..

::before

::after

<https://www.w3.org/TR/selectors-3/#selector-syntax>

**!Invalid Selector!** An empty selector, containing no sequence of simple selectors and no pseudo-element (https://www.w3.org/TR/selectors-3/#selectors)

**Selectors in actual use: follow the link below**

<https://www.w3schools.com/cssref/trysel.asp> (for example )

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Simple Selector Categories <https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Selectors> - gaspar

Type Selector

**Syntax:** eltname

Class Selector

Syntax: .classname

ID Selector

Syntax: .classname

Universal Selector

Syntax: \* ns|\* \*|\*

Attribute Selector

Syntax: [attr] [attr=value] [attr~=value] [attr|=value] [attr^=value] [attr$=value] [attr\*=value]

Combinators Categories <https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Selectors> - Raffi

Pseudo elements - Pagz

* Dynamic pseudo classes
* Target pseudo class
* Language
* Ui element stated