



Learn Every CSS Selector In 20 Minutes

CSS Selectors

In this presentation, I'm following [this tutorial](#)

1) Basic Selectors

1. Universal selector

- Selects all elements - Ex: `*` matches all the elements of the document.

2. Type Selector

- Selects all elements that have the given node name - Ex: `input` will match any `<input>`

3. Class Selector

- Selects all elements that have the given class - Ex: `.index`

4. ID Selector

- Selects elements based on the value of its `id` attribute - Ex: `#toc`

5. Attribute Selector

- Selects all elements that have the value indicated (or a value) in a given attribute.
- Ex: `[attr=value]` matches all elements an attribute set to an specific value
- Ex2: `[id]` matches all elements that have the id attribute set (to any value)

2) Grouping Selectors

Selector list

- Using `,` , we can group nodes to apply an style to them
 - Syntax: A, B
 - Example: `div, span` will match both `` and `<div>` elements.

3) Combinators

- **Descendant combinator** (space)
 - All the descendants (not only children)
- **Child combinator** >
 - All children (not all descendants)
- **general sibling combinator** ~
 - Elements that are neighbours or siblings (not necessary immediate)
- **adjacent sibling combinator** +
 - Element that is the immediate (posterior, not previous) neighbour

4) Pseudo-classes

A pseudo-class defines a special state of an element.

A pseudo-class can be used to:

- Style an element when a user mouses over it
- Style visited and unvisited links differently
- Style an element when it gets focus

4) Pseudo-classes

- The : pseudo allows the selection of elements based on state information that is not contained in the document tree
- There are lots of pseudo-classes
 - User action: :link :visited :hover :active :focus
 - For inputs: :valid :invalid *etc.*
 - Tree Structural: :root :first-child :nth-child() *etc.*
 - *Etc..*

4) Pseudo-classes

- Pseudo-classes can be combined with CSS classes. [Example](#)
- Create interactions using pseudo-classes. [Example](#)

`div:hover p { color:red }`

Text inside a **p** that is descendant of a **div** is colored in red on hover the **div**

`div p:hover { color:red }`

Text inside the **p** is colored in red when hovering on the **p** that is a descendant of a **div**

`div.box:hover p { color:red }`

Text inside the **p** is colored in red on hover the **div** of class *box*

4) Pseudo-classes

Other pseudo-classes:

- :first-child matches the first child of an element
 - p:first-child Any <p> that is the first child of any element
 - p i:first-child First <i> element in all <p> elements
 - p:first-child i All <i> elements in <p> elements that are the first child
- :nth-child() matches the child or children we want to modify

5) Pseudo-elements

Pseudo-Elements are used to style a specified part of an element

- **::first-line** first line of an element
- **::first-letter** first letter of the text of an element
- **::before** to insert content *before* an element text
- **::after** to insert content *after* an element text
- **::selection** match the selection of text made by the user

Recommended activities and links

1. CSS selectors tutorials

- [MDN Web Docs](#)
- [W3Schools](#)

2. [*CSS Diner*](#)

- A fun game to learn about **combinators**, **pseudo-classes** and **pseudo-elements**