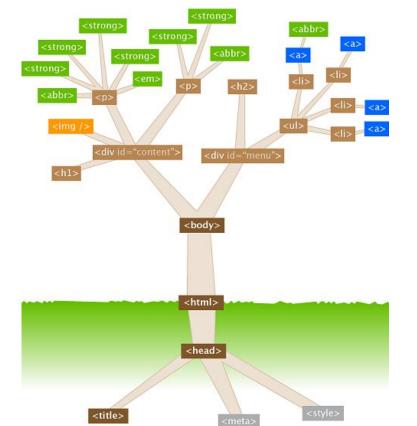
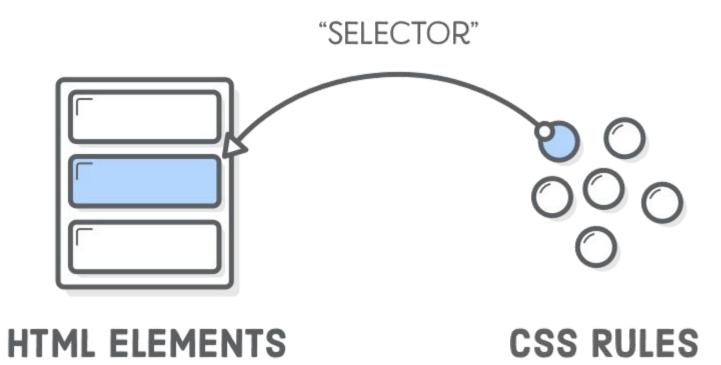
CSS - Selectors

reach & collect & manipulate DOM elements







Agenda

- Advanced Selectors
 - Hierarchy
 - Attribute level
- Questions

Learning Objectives

- You know how to make use of the selectors for the parent-child relationships.
- You know how to select elements by attributes
- The meaning of DOM-Traversing
- You know what Pseudo means.

Selectors

The way how to select a group of elements (tags)

- Universal-Selector→ *{...}
- ID-Selector → #idname{...}
- Class-Selector →
 .classname{...}
- Tag-Selectors → tagname{...}
- Hierarchy-Selectors
 - child
 - o siblings
 - decendants
- Attribute-Selectors →
 [attrname]{...}
- Pseudo-Class-Selectors
 - first-child
 - last-child

Selectors used for hierarchical relationship

parent, children, sisters, ...

- Descendant (all generations)
 - o div p{...}
 - #someId .someClass{...}
 - ∘ ul li{...}

Direct Descendant

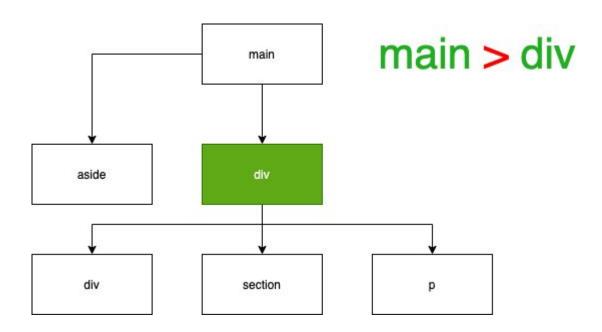
- o div > p{...}
- #someId > .someClass{...}
- o ul > li{...}

General Sibling

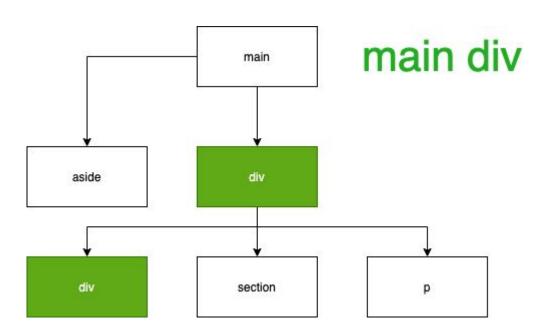
- o div ~ p{...}
- o #someId ~ .someClass{...}
- o ul ~ li{...}

Adjacent Sibling

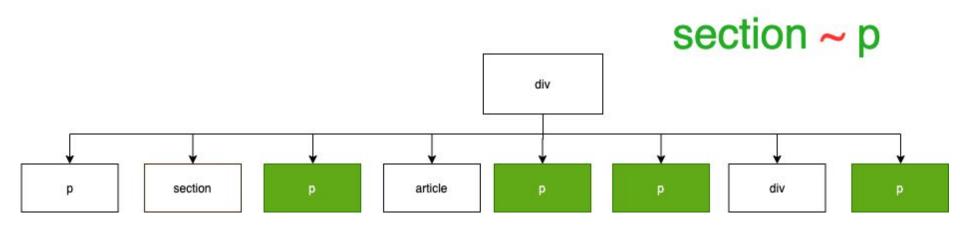
- \circ div + p{...}
- o #someId + .someClass{...}
- ul + li{...}



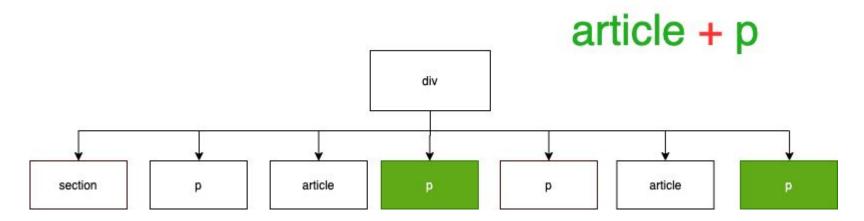
Direct child selector



descendant selector



General Sibling selector



Adjacent selector

Selectors using attributes

Another useful classification

- Attribute existing
 - div[id]
 - ı <div></div>
 - <div id="primary"></div>
- Attribute is exactly same
 - div[id="primary"]
 - <div id="primary"></div>
- Attribute contains a part of the value
 - div[id*="ima"]
 - <div id="primary"></div>
- Attribute starts with the value
 - o div[id^="pr"]
 - <div id="primary"></div>
- Attribute ends with value
 - o div[id\$="ary"]
 - <div id="primary"></div>
- Attribute's value separated by an empty space
 - div[class~="tag"]
 - <div class="tag btn"></div>
- Attribute's value separated by a dash
 - div[class|="tag"]

Pseudo Classes & Elements

More advanced

Pseudo-classes

- Helps us to extend the search on the tree

Pseudo-elements

Help to create content on html

Pseudo classes

Links

```
a:link { color: blue; text-decoration: underlined; }
unvisited Link
a:visited { color: green; text-decoration: underlined; }
besuchter Link
a:hover { color: blue; text-decoration: undelined; }
Effekt bei Hover über Link
a:active { color: purple; text-decoration: none; }
Effekt beim Klicken auf einen Link
```

Pseudo classes

UI element states

:enabled

Selects active elements disabled="enabled"

:disabled

Selects inactive elements disabled="disabled"

:checked

Selects checked elements checked"

Pseudo classes

Structure relevant classes

- :first-child
 - fist Element
- :last-child
 - last Element
- :nth-child(n)
- :nth-last-child(n)
- :nth-of-type(n)
- :nth-last-of-type(n)
- :first-of-type
- :last-of-type
- :only-child
- :only-of-type
- :empty
- :root (web component)

Pseudo Elements

special cases

A CSS pseudo-element is a keyword added to a selector that lets you style a specific part of the selected element(s).

CSS

::after (:after)

::before (:before)

::first-letter (:first-letter)

::first-line (:first-line)

::backdrop

::cue (:cue)

::grammar-error

::marker

::placeholder

::selection

::slotted()

::spelling-error

https://flukeout.github.io/

Additional Resources

- https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Selectors
- https://www.youtube.com/watch?v=Bcr70LIJcOk
- https://www.youtube.com/watch?v=zGiirUiWsll

Questions?