

CSS Selectors - Part#2

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/menti.com\



/Solution: CSS types exercise\





/Recap\



CSS selectors: universal, type, class, id

- Universal selector: `*` `{}`
- Type selector: `div {}`, `h1 {}`, `p {}`, `html {}`, `body {}`
- Class selector: `.box {}`, `.fruits-list {}`
- Id selector: `#unique {}`

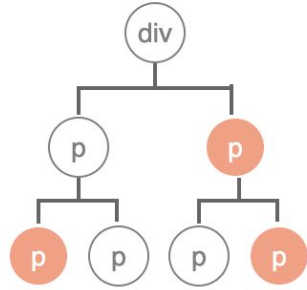


CSS: selectors naming&grouping

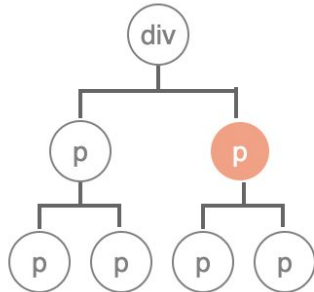
- Selectors should be meaningful (semantic)
- Selectors: only numbers won't work (Unicode)
- Selectors: containing a number will work (not necessarily recommended, but it can be used for generated class names)
- Class selector: dashes, underscores are allowed
- Class selector (HTML): space means more classes
- Class selector (CSS): space means descending in hierarchy
- Class selector: “,” allows to **group** more selectors to a certain set of rules
- All selector types can be combined and used together

CSS: selectors&combinators

- Descendant combinator: `div p {}` (2nd selector matches if the 1st is an ancestor of any degree)



- Child combinator: `div > p {}` (2nd selector matches a direct child of the 1st)



CSS: selectors&combinators

- Adjacent sibling combinator: `div + p { }` (siblings: 2nd selector matches if it **immediately** follows the 1st)



- General sibling combinator: `div ~ p { }` (siblings: 2nd selector matches if it follows the 1st)



CSS: priority scheme

- !important (**to be avoided as much as possible**)
- bottom > top
- inline > internal > external (bottom > top)
- **Selectors** (bottom > top)
 - id selector > class selector > type selector > universal selector
 - 2 class selectors > 1 class selector

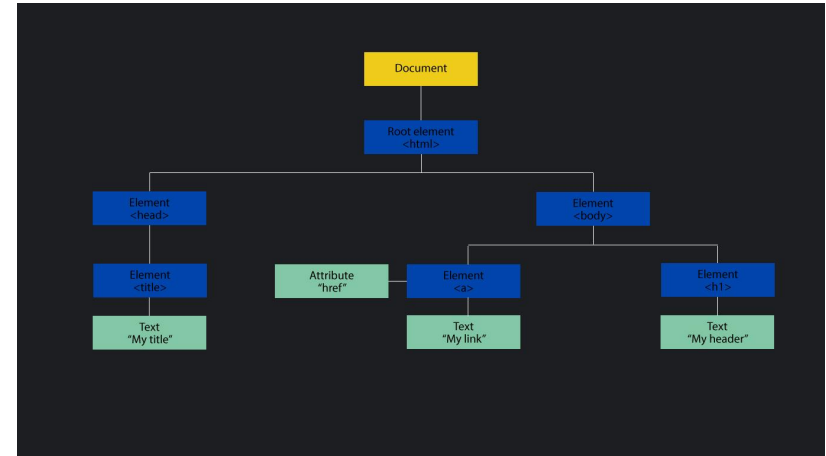


/DOM - Tree representation\



DOM (Document Object Model): tree representation

```
1 <!DOCTYPE html>
2 *   <html>
3 *     <head>
4 *       <title>My title</title>
5     </head>
6 *   <body>
7 *     <a href="https://www.google.com/">My link</a>
8 *     <h1>My header</h1>
9   </body>
10 </html>
11 </html>
```



/Attribute Selector\



CSS: attribute selector

```
/* Selects all img elements with an alt attribute */
img[alt] {
  border: 1px solid ■#999999;
}

/* Selects all img elements with alt="Icon Smile" */
img[alt="Icon Smile"] {
  border: 1px solid ■blue;
}

/* Selects all img elements with an alt containing
a whitespace-separated list of words, one of which is exactly the word "Sad" */
img[alt~="Sad"] {
  border: 1px solid ■hotpink;
}

/* Selects all img elements with an alt value identically with "Icon" or with "Icon-" */
img[alt|="Icon"] {
  border: 1px solid ■yellow;
}

/* Selects all img elements with an alt value starting with "Icon" */
img[alt^="Icon"] {
  border: 1px solid ■orange;
}

/* Selects all img elements with an alt value ending with "Sad" */
img[alt$="Sad"] {
  border: 1px solid ■green;
}

/* Selects all img elements with an alt value contains at least one occurrence
of the substring "Neutral" */
img[alt*="Neutral"] {
  border: 1px solid ■black;
}
```


Note: pay attention to bad/incomplete documentation.



/code\





/Attribute Selector: Hands On\



/more selectors\



CSS selectors: pseudo-class, pseudo-element

- **Pseudo-element selector** (selects/adds a specific part of an element):
 - `p::first-line {}` (selects the first line of a paragraph)
 - `p::first-letter {}` (selects the first letter of an element)
 - `p::after {}` (add cosmetic content to an element with content property)
 - `p::before {}` (add cosmetic content to an element with content property)
- **Pseudo-class selector** (reference to an existing available state or index):
 - `a:hover {}, a:active {}, a:link {}, a:visited {}`
 - `p:first-child {}, p:last-child {}, p:nth-child {}`
 - `p:first-of-type {}, p:last-of-type {}, p:nth-of-type {}`

nth-of-type pseudo-class selector: `.for-demo:nth-of-type(2n) {}`

It matches a given type, based on their position among a group of siblings.



CSS selectors: pseudo-class, pseudo-element

- HTML is not being crowded
- There can be implemented logic only on CSS side
- If children nodes are of the same type $\text{nth-child} = \text{nth-of-type}$
- Logical parameter:
 - If $2n$ - index starts from 1 (even indexes)
 - If $2n+1$ - index starts from 0 (odd indexes)



/Exercise: CSS selectors\



CSS: selectors practice (using pseudo-class selector)

```

1  <!DOCTYPE html>
2  <html>
3  <head>
4    <style>
5      span {
6        display: inline-block;
7        width: 100px;
8        height: 100px;
9        margin-right: 15px;
10       background-color: black;
11     }
12     span:last-child{
13       margin-right: 0;
14     }
15     div {
16       margin-bottom: 15px;
17     }
18   </style>
19 </head>
20 <body>
21   <div>
22     <div>
23       <span></span>
24       <span></span>
25       <span></span>
26       <span></span>
27     </div>
28     <div>
29       <span></span>
30       <span></span>
31       <span></span>
32       <span></span>
33     </div>
34     <div>
35       <span></span>
36       <span></span>
37       <span></span>
38       <span></span>
39     </div>
40     <div>
41       <span></span>
42       <span></span>
43       <span></span>
44       <span></span>
45     </div>
46   </div>
47 </body>
48 </html>
49

```





/Q&A\



Resources

- MDN Web docs: <https://developer.mozilla.org/en-US/>
- W3Schools: <https://www.w3schools.com/>
- Please don't take for granted everything you read on stackoverflow (read, learn, try, repeat)



Thank you

Next: CSS Basic Rules - Part#1

