CSS Selectors - Part#1

Sesiunea 4 - 29/04/2021

CSS: types

- Inline styles

- Internal style sheets

- External style sheets

CSS: inline styles

```
1    <!DOCTYPE html>
2  ∨ <html>
3  ∨   <head>
4          <title>Page title – Hello, World!</title>
5        </head>
6  ∨   <body>
7  ∨     <div
8            style="width: 150px;
9                   height: 150px;
10                  background-color: ▪#280f36;
11                  color: ▪#ffc1a0;
12                  text-align: center;
13                  line-height: 150px">
14           I am coloured div.
15        </div>
16      </body>
17  </html>
```

CSS: internal style sheets (embedded)

```html
1   <!DOCTYPE html>
2   <html>
3       <head>
4           <title>Page title - Hello, World!</title>
5           <style>
6               div {
7                   width: 150px;
8                   height: 150px;
9                   background-color: #280f36;
10                  color: #ffc1a0;
11                  text-align: center;
12                  line-height: 150px
13              }
14          </style>
15      </head>
16      <body>
17          <div>I am coloured div.</div>
18      </body>
19  </html>
```

CSS: external style sheets

```html
1  <!DOCTYPE html>
2  <html>
3      <head>
4          <title>Page title – Hello, World!</title>
5          <link rel="stylesheet" type="text/css" href="assets/main.css">
6      </head>
7      <body>
8          <div>I am coloured div.</div>
9      </body>
10 </html>
```

```css
1  div {
2      width: 150px;
3      height: 150px;
4      background-color: red;
5      color: #ffc1a0;
6      text-align: center;
7      line-height: 150px
8  };
```

CSS: when to use what

- The inline CSS is limited (does not allow styling pseudo-elements and link states) and it leads to messy code (so, it's a no!)

- To be used only for: testing, quick fixes, email templates, dynamic content (JS generated)

- Internal style sheets can be used for styling a single page (time consuming for more than one page and for repetitive styling needs)

- The external style sheet is the most preferable solution (so use that as much as possible)

- The inline CSS will always override the other ones, but it's still a no (the priority scheme is preferred - we will talk more about it in a bit)

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

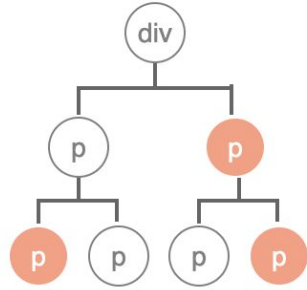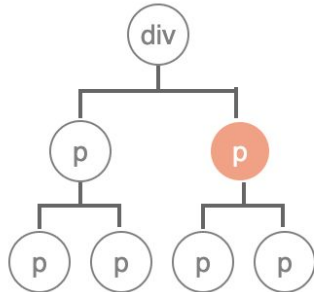- All selector types can be combined and used together

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)

/code\

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)

/code\

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

/code\

/Dev Tools: add styles for testing\

CSS: selectors practice
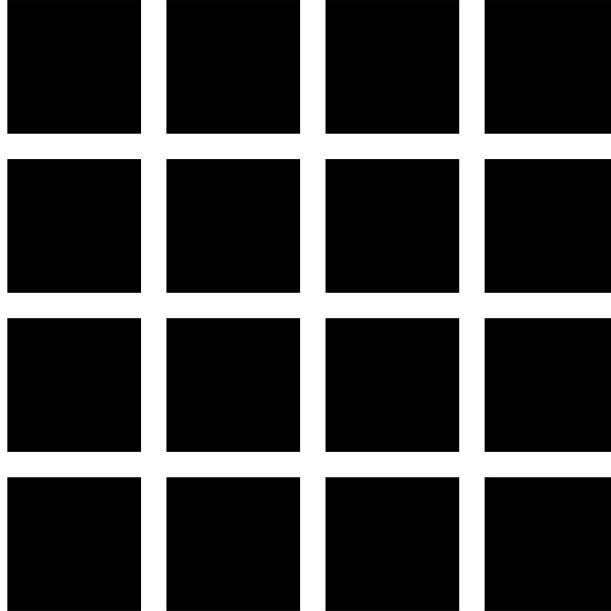
```
1   <!DOCTYPE html>
2   <html>
3       <head>
4           <style>
5               span {
6                   display: inline-block;
7                   width: 100px;
8                   height: 100px;
9                   margin-right: 15px;
10                  background-color: ☐black;
11              }
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
```


#e5ff60	#ffdc7f	#ffdc7f	#ffdc7f
#66c887	#e5ff60	#66c887	#66c887
#66c887	#66c887	#e5ff60	#66c887
#ffdc7f	#ffdc7f	#ffdc7f	#e5ff60

/Q&A\

Thank you

Next: CSS Selectors - Part#2