CSS: Complement

In the program

1. **::before and ::after**
2. **Counter**
3. **Media queries**
4. **Transformations and transitions**

::Before and ::after

::before And ::after

Pseudo-elements ::before And ::after allow the insertion of content before or after an element.
The content is defined by the property content. Style properties can also be specified.

Content

Content can take as value:

String a character string between " "

url() most often to designate an image

counter() the value of a counter

attr(A) a character string corresponds to the value of the attribute A

open-quote|close-quote opening/closing quotes defined by quotes

Example

Counters

Counters can be manipulated via:

- **Counter-reset**: property that creates and resets the counter specified in value
- Every element that declares counter-reset property, creates its own "current" local counter instance.
- **Counter-increment**: property that increments the "current" counter specified in value
- *counter()*:displays the value of the "current" counter passed as a parameter

Example

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Media queries

Objective :

- adapt the stylesheet according to the document viewing device:
  - media type (screen, print, etc.)
  - properties (dimensions, colors, ...)

A *media query*, is a Boolean expression used to specify the scope of CSS rules.

reminder: in the cascade mechanism the filter by media is the first applied

Criteria

media
screen, print, TV, braille, all, ...

properties
most can be preceded by min- Or max-

- width(min-width, max-width), height(*min-height: 640px*)

- device-width, device-height (*max-device-width: 800px*)

- orientation(*portrait*, *landscape*)

- ….

media queries on MDN

Operator

- **And** realize the **And** logical query
@media screen **and** (max-width: 1000px)

- comma separation: equivalent to logical **Or**
@media screen and (max-width: 800px), orientation: landscape

- **Not** inverts the result of the query (carries the set)
Not print
- **Only** for old browser compatibility

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4. **Transformations and transitions**

Transformations

the property transform allows to apply transformations to the box of an element:

- translations: translate,translateX,translateY
- rotations:rotate
- homotheties:scale,scaleX,scaleY
- inclinations:skewX,skewY
- transform: skewX(50px) skewY(5deg);

Transitions

- transitions are used to animate property value changes by making them gradual
- transitions apply between an initial value, a final value and concern numbers, lengths, colors
- intermediate values are calculated by the browser
- transitions are controlled by the property transition: which aggregate the properties

  transition-property the property concerned

  transition-duration the duration of the transition

  transition-delay the break before the transition

  transition-timing-function the function for calculating intermediate values

Transitions

transition: color 1s;

transition: padding 1s 0.5s ease-out;

transition: left 1s 0.5s ease-out, background-color 1s 0s linear;

Equals

transition-property: left, background-color; 1s;

transition-duration: 1s;

transition-delay: 0.5s, 0s;

transition-timing-function: ease-out, linear;

To be continued…

JavaScript