6, 9 March 2017

Cascading Style Sheet (CSS) – not only visual formatting but also oral formatting

* Language used to specify the presentation aspects (layout and formatting) of structurally marked up documents
* Developed by Hakon Wium Lie (CHSS) and Bert Bos (SSP)

Versions

* CSS 1 1996 Dec
* CSS 2.1 7 June 2011
  + Monolifier – contains everything
* CSS 3

CSS Preprocessors, CSS Frameworks

* SASS, LESS – commonly used styles, 960 Grid System, Bootstrap, Foundation, Materialization, etc ….

HTML/XHTML Stylesheets

* Author styles – styles used by creator of the page
  + External stylesheets (recommended)
    - <link> element
    - “media queries” – screen, print, speech
  + Embedded styles – quick prototyping website consist of one page
  + Inline styles – style attribute
* User styles – styles used by users
* User agent styles (default css2.1 stylesheet for html 4) – styles used by the browser

CSS Statements

* At rules:
  + @charset – character set
  + @import – existing style file
  + @media – media query
  + @font-face – downloading font face
  + @key-frames – anonation
  + @namespace
  + @document – specific domain //not supported
  + Vendor prefixes
    - Moz

CSS Rule Sets (CSS Rules, Style Rules)

-consists of selectors, followed by

-Selectors – structures used as a condition in a CSS rule to determine which elements in the document the area is matched by

body {

display: none;

color: blue;

}

/\*this is a comment\*/

Selector syntax – chain of one or more sequences of simple selectors separated by combinators, with one pseudo-element possibly appended to the last sequence

Sequence of simple selectors

* Chain of simple selectors not separated by combinators
* Always starts with a type selectors or universal selectors
* Cannot contain other type and universal selectors

P[alt] div – invalid

Group of Selectors

* Simple Selectors
  + Type selector
    - <div>,<p>,<span>
  + Universal selector
  + Attribute
    - [attr = value]
    - [attr ~= value ] (~-matching)
* Class selector
  + p.xyz or p [class = xyz]
* ID Selector
  + div [id = abc] / [div id = “abc”]

Pseudo-class

* link pseudo-class
  + :link
  + :visited
* User-admin pseudo class
  + :hover
  + :active
  + :focus
* Target pseudo class
  + :target
    - \_#id

p {display:none;}

:target {display:block;}

* Language pseudo class
  + :lang()
    - lang (en) { }
* UI element status (interactive elements)
  + :enabled
  + :disable
  + :checked
  + :indeterminate