CSS

-Cascading Style Sheets

-Language used to specify the presentation aspects

-Hakon Wium Lie and Bert Bos

Versions

-CSS 1

-CSS 2.1

-CSS 3

CSS 1

-1996

-Hakon Wium Lie and Bert Bos

CSS 2

-2011

CSS 3

HTML/XHTML STYLESHEETS

\*Author styles

- Define by the author

-Comes from the author of the style

\*User styles

-Allow the user to define the style

\*User agent styles

-come with the browser

Author styles

* External stylesheets
* <media = “ ”>
* all
* screen
* print
* speech
* Embedded styles
* Inside the html
* Inline styles
* Inside a tag

CSS Statements

* At rules
* charset
* import
* media
* font-face
* page
* namespace
* CSS rule sets
* Selector
* declaration block
* property value

Selector

* Used as a condition in css

Selector syntax

* Chain of one or more sequence of simple selectors separated by combinatory with one pseudo-element

Ex. divxyz>p#abc+ul::after

Where:

div = selector

xyz = selector

>, + = combinatory

P = selector

#abc = selector

::after = pseudo-element

Note: always start with type selector or universal selector

Type selector

* p
* h1
* body

Universal selector

* \*

Attribute selector

[attr]

[attr = value]

[attr ~ = value] – space separator

[attr | = value] – value start with

beginning [attr ^ = value]

ends [attr $ = value]

anywhere [attr \* = value]

Class selector

Ex. p.xyz

ID selector

Pseudo class

* Dynamic class
* Link Pseudo Classes

:link

:visited

* User Action Pseudo Classes

:hover

:active

:focus

* Target class

:target

:html#id

* Language

:lang()

* UI Element States

:enabled

:disabled

:check

:indeterminated

* Structural Pseudo Classes

:root

:first-child

:last-child

:only-child

:nth-child()

:nth-last child()

:first-of-type

:last-of-type

:only-of-type

:nth-of-type()

:nth-last-of-type()

:empty

* Negation

:not()

DOM

* Document Object Model
* Defines the logical structure of documents and the way a document is accessed and manipulated

Combinators

* Descendant combinatory (whitespace)
* Child combinators
* Sibling combinators
* Adjacent sibling combinator (+)
* General sibling combinatory (~)

Pseudo-elements

::first-letter, :first-letter

::first-line, :first-line

::before, :before

::after, :after

CSS Rule precedence

* By origins and importance
* !important
* User agent important declaration
* User important declaration
* Author important declaration
* Author normal declaration
* User normal declaration
* User agent normal declaration
* By specificity
* Inline style-specific
* Number of id selector
* Number of class selector, attrib selector, and pseudo-classes
* Number of type selectors and pseudo-elements
* By order

CSS Declarations

* Properties
* Short hand properties
* Vendor-specific extensions (a.k.a vendor prefixes)
* Values
* Keyword
* Numbers
* Dimension

# length, angle, duration, frequency, resolution

# length units

* front-relative : em, ex, ch, rem
* viewport-percentage : vw, vh, vmin, vmax
* absolute lengths: cm, mm, q, in, pt, pc, px

# angle units : deg, grad, rad, turn

# duration units : s, ms

#frequency : hz, Khz

#resolution : dpi, dpcm, dppx

CSS Preprocessor, CSS Frameworks

* SASS, LESS, 960 grid system, Bootstrap, foundation, materialize

SASS

* Syntactically Awesome Stylesheets
* Ruby

Less

* Javascript

SCSS

* SASS CSS

$col:#abcdef;

* Naming a variables