CASCADING STYLE SHEETS (CSS) – IT IS A LANGUAGE USED TO SPECIFY THE PRESENTATION ASPECTS (LAYOUT OR FORMATTING) OF THE DOUMENT

**HAKON WIUM LIE** AND **BERT BOS** – DEVELOPED CASCADING STYLE SHEETS

**HAKON WIUM LIE** – HTML CASCADING STYLE SHEETS / CHSS

**BERT BOS** – STREAM - BASED STYLE SHEET PRROPOSAL / SSP

VERSION

* CSS 1
* CSS 2
* CSS 2.1
* CSS 3 (STRUCTURAL SEMANTIC MARKUP / MODULARIZES CSS 2.1)

XHTML STYLE SHEETS

AUTHOR STYLES – CAN BE SPECIFY BY THE AUTHOR HIMSELF

EXTERNAL STYLE SHEETS (RECOMMENDED)

<link rel = “stylesheet” type=”test/css” href = ”style.css”>

EMBEDDED STYLES

<style>

H1{

Font-size:1.5em;

}

</style>

INLINE STYLES

<h1 style = ”color : fuschia”> HELLO, CSS</h1>

USERS STYLE – CAN BE SPECIFIED BY THE USER

USER AGENT STYLE – A BROWSER HAS DEFAULT STYLE SHEET

CSS STATEMENTS

At-Rules(@)

* @charset
* @import
* @media
* @font-face – allows the author to download fonts
* @keyframes – it is used for animation
* @page – characteristics of a page

CSS RULE SET STRUCTURE – consists of a selector, followed by a declaration block, which contains zero or more semi-colon separated declarations which in turn consists of a property name followed by a colon, followed by the value

H1 – selector

{} – declaration block

Color:blue – declaration

Color – property

Blue – value

CSS SELECTORS – IT IS USED TO SELECT ELEMENT OF INTEREST

Matched element is called “subject” p[title]+#abc:first-child>span::first-letter

SELECTOR SYNTAX

* SEQUENCE OF SIMPLE SELECTORS
* CHAIN OF ONE MORE SEQUENCES OF SIMPLE SELECTORS SEPARATED BY A COMBINATORS
* ALWAYS START WITH A TYPE SELECTOR OR UNIVERSAL SELECTOR
* CANNOT CONTAIN OTHER TYPE OF SELECTORS OR UNIVERSAL SELECTORS
* GROUP OF SELECTORS
* COMMA SEPARATED LIST OF SELECTORS

COMBINATORS

DESCENDANT COMBINATOR – WHITESPACE (space, tab, line, return)

CHILD COMBINATOR - >

SIBLING COMBINATORS

ADJACENT SIMBING COMBINATOR – (+) IMMEDIATELY FOLLOWS

GENERAL SIMBLING COMBINATOR – (-) ANYTHING THAT FOLLOWS

SIMPLE SELECTOR

TYPE SELECTOR – IT MATCHES ELEMENTS (p,h1,h2,….)

P{

}

UNIVERSAL SELECTOR – IT MATCHES EVERYTHING (\*)

\*{

}

GROUPING SELECTOR

H1,h2,h3{

}

ATTRIBUTE SELECTOR – ALLOWS YOU TO SELECT BASED ON THE GIVEN ATTRIBUTE

[attr] – ANY

[attr=value] – SPECIFIC

[attr~=value] = THE VALUE IS ONE OF THE VARIANT

[attr|=value] = THE VALUE SHOULD BE THE BEGINNING

[attr^=value] – START (css3)

[attr$=value] – ENDS {CSS3)

[attr\*=value] – contains (CSS3)

CLASS SELECTOR

p.x{

}

ID SELECTOR

#nav{

}

DESCENDANT

div.content em {

}

CHILD

div.content>em{

}

ADJACENT SIBLING  
div[class==note]{

}

PSEUDO CLASS

* STRUCTURAL PSEUDO CLASS
  + ROOT PSEUDO CLASS (:root)
  + FIRST CHILD PSEUDO CLASS (:first-child)
    - Li:first-child{

}

* + :last-child
  + :only-child
  + nth-child()
  + nth-last-child()
  + first-of-type
  + last-of-type
  + only-of-type
  + nth-of-type()
  + nth-of-last-typr()
  + :empty – ELEMENT WITH NO CHILDREN
* TARGET PSEUDO CLASS
  + .target
* LANGUAGE PSEUDO CLASS
  + :lang()
* UI ELEMENT PSEUDO CLASS
  + :enabled
  + :disabled
  + :checked
  + :intermediated
* LINK PSEUDO CLASS (DYNAMIC PSEUDO CLASS)
  + :link
  + :visited
* USER ACTION PSEUDO CLASS (DYNAMIC PSEUDO CLASS)
  + :hover
  + :active
  + :focus
* NEGATION PSEUDO CLASS
  + :not()

PSEUDO ELEMENTS

::first-letter

::first-line

::before

::after

DECLARATION BLOCK

* PROPERTIES
  + VISUAL, AURAL, PAGED, INTERACTIVE
  + MARGINS, BORDERS, AND PADDING
  + COLORS AND BACKGROUNDS
  + FONTS
  + TEXT FORMATTING
  + LISTS AND TABLES
  + POSITIONING AND DIMENSIONS
  + MISCELLANEOUS
* VALUES
  + KEYWORDS
  + NUMBERS
  + DIMENSION
    - LEMGTH UNITS: em ex px in an in m pt pc

Relative Absolute

* + ABSOLUTE
  + COLORS
  + STRINGS
  + URLs
  + COUNTERS
  + INITIAL VALUES, INHERITED VALUES, IMPORTANT RULES
  + SPECIFIED, COMPUTED, USED, AND ACTUAL VALUES

CSS RULE OF PRECEDENCE

* BY ORIGIN AND IMPORTANCE
  + USER AGENT IMPORTANT DECLARATION
  + USER IMPORTANT DECLARATION
  + AUTHOR IMPORTANT DECLARATION
  + AUTHOR NORMAL DECALARATION
  + USER NORMAL DECLARATION
  + USER AGENT NORMAL DECLARATION
* BY SPECIFICITY
  + INLINE STYLES (1) or not (0)
  + NUMBER OF ID SELECTORS
  + NUMBER OF CLASS SELECTORS, ATTRIBUTE SELECTORS AND PSEUDO CLASSES
  + NUMBER OF TYPE SELECTORS AND PSEUDO CLASS ELEMENTS

CSS COMMENTS /\* \*/