March 16 CSS Declaration and Preprocessors, Frameworks and Polyfills

CSS Declaration

* Properties
  + Shorthand
    - Allows authors to specify the values of several properties with a single property.
      * Examples: background, margin, border, padding and font
  + Vendor specific (a.k.a vendor prefixes)
    - Used by browser vendors as a prefix for the names of experimental or non standard CSS properties;
    - Lately, vendors are moving away from vendor prefixes in favor of user-controlled flags or preferences.
      * Example: -webkit- , -moz-, -o-, -ms-
  + Custom properties (a.k.a CSS Variables)
    - Properties names prefixes with --, representing a value that can be resued throughout the document using the var() function.
* Values
  + Value processing
    - Declared, Cascaded, Specified, Computed, Used, Actual Values
  + Value types
    - Keywords (CSS-wide / property specific)
    - Numbers ( Integers/decimal)
    - Dimensions (Lengths, angle, duration, frequencies, resolution)
    - Percentages
    - URLs and URIs functions
    - Colors
    - Strings (delimited by ‘ or “ quotes)
    - Miscellaneous types

CSS Preprocessors

* Generates CSS using a custom language syntax that typically includes features that don’t exist in pure CSS.
  + Examples
    - Sass, Less, Stylus

CSS Frameworks

* Provides predefined CSS design functionality that can be resued, extended or customized.
  + Examples
    - Bootstrap, Foundation, Materialize

Polyfills

* Provides features that developers expect browsers to provide natively
  + Examples
    - Modernizr, Selectivizr