MIDTERMS (notes)

March 13, 2018

CSS Rule Precedence

* An HTML element may be the subject of the selectors of multiple style rules
* When such rules target different properties, their effects cascades

\*resolution:

* By origin
* By specificity
* By order

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Properties – value

\*Vendor specific extensions (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

eg. –webkit, -moz-, -o-, -ms-, etc.

\*Custom properties a.k.a CSS variables (experimental)

Values

Value Processing

* Declared, cascaded, specified, computed, used, actual values

Value Types

* Keywords

CSS – wide keywords

Initial, inherit, unset

Property specific keywords

* Numbers –integers or real integers (scientific) decimal notation
* Dimensions - length, angle, duration(or time), frequency, resolution

\*Length units:

* Font relatives: em, ex, ch, rem
* Viewport percentage: vw, vh, vmin, vmax
* Absolute: cm, mm, in, pt, pc, px

\*Angle units:

* Deg, grad, rad, turn
* Used in some transform functions

\*Duration(or time) units:

* S, ms
* Used in animation, transition and related properties

\*Frequency units:

* Hz, kHz
* Initially introduced in CSS2 for the (obsolete) aural media
* Type; reintroduced in CSS3, but it is currently unused

\*Resolution units:

* Dpi, dpan, dppx
* Used in media queries

\*Percentages

* Number with a % suffix
* Calculated as a percentage of some value (usually taken from the parent element)

\*URIs and URLs

* url() function with an absolute or relative (to the stylesheets) URL parameter

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CSS Preprocessors, Frameworks, and Polyfills

* CSS Preprocessors
* Generates CSS using language syntax that typically includes features that don’t exist in pure CSS

Eg. SASS, LESS, STYLUS etc

* CSS Frameworks
* Provides predefined CSS design functionality that can be reused, extended, or customized

Eg. Bootstrap, Foundation, Materialize etc

* Polyfills
* Provides features that developed expect browsers to provide natively

Eg. Modemizr, Selectivizr etc