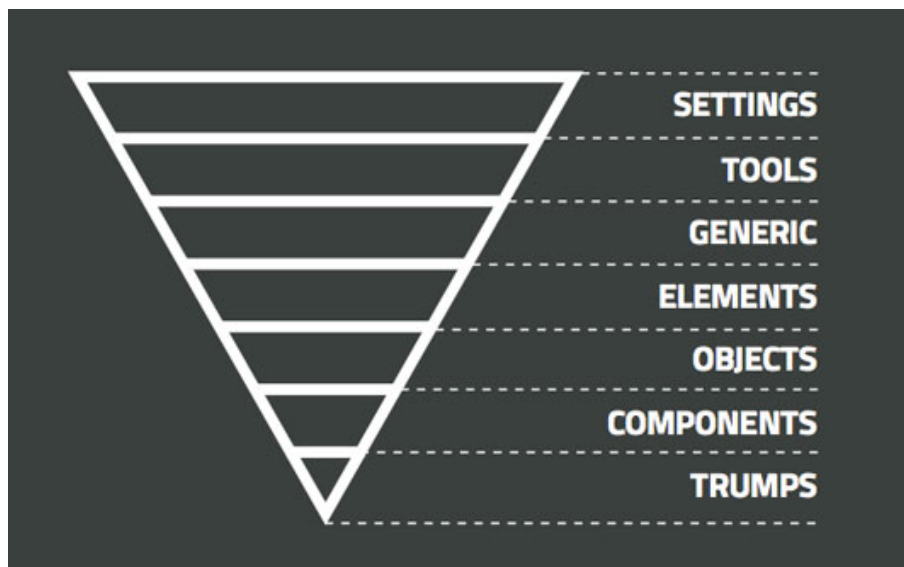


CSS Architecture (ITCSS – Inverted Triangle CSS)

- Layered architecture where specificity slowly increases layer by layer
 - Settings – globally-available variables, and config switches
 - Tools – globally-available tools, mixins, and helper functions
 - Generic – ground-zero styles, low specificity, far-reaching, resets, normalize.css, etc.
 - Elements – unclassed HTML element(s), last layer we see is type selectors, H1-H6, basic links, lists, etc.
 - Objects – OOCSS (Object Oriented CSS), cosmetic-free design patterns, begin using classes exclusively, and agnostically named
 - Components – designed pieces of UI, still only using classes, and more explicitly named
 - Theme – design skin or overall look, brand colors, etc.
 - Test – used to isolate temporary styles for testing
 - Trumps – helpers, overrides, utilities, only affect one piece of the DOM at a time, and usually carry important
- Remove Settings and Tools layers if not using a preprocessor
- Add Theme and Test layers if needed
- Add brand colors to Settings layer if not using Theme



YouTube - <https://www.youtube.com/watch?v=1OKZOV-iLj4>

Creative Bloq Article - <http://www.creativebloq.com/web-design/manage-large-scale-web-projects-new-css-architecture-itcss-41514731>

GitHub - <https://github.com/itcss>

CSS Structure (combination of inuitcss, OOCSS, BEM)

- Name and separate CSS files based on architecture layers
 - Include table of contents CSS for overall view of what's included in project
 - Multiple files may be necessary for each layer
- Styles will be component-based and portable by removing location dependence (what not where)
- Class names are independent of context
- Use UI component for meaningful name in HTML (how and where)
- This approach uses more classes but will take the complexity out of the CSS and move it to the HTML markup
- Media queries are included with the rules they affect

CSS Formatting & Syntax

- Consistent so it looks and feels familiar
 - Table of contents
 - Provides name of section, files associated with it, and brief summary of what it does (based on CSS architecture)
 - Rules
 - Four (4) space indents, no tabs
 - 80 character wide columns
 - Multi-line CSS
 - Meaningful use of whitespace
 - Titling
 - Begin each new major section of a CSS project with a title
 - Prefixed with hash (#) to allow targeted searches
 - Commenting
 - Anything that isn't immediately obvious from the code alone
 - Naming conventions
 - BEM-like
 - Block – root of component (`.person {}`)
 - Element – delimited by 2 underscores (`.person__head {}`)
 - Modifier – delimited by 2 hyphens (`.person-tall {}`)
 - Selectors
 - Use good intent and make unambiguous (`.primary-nav {}`)
 - Shorter and child selector are better performance (`.foo > .bar`)
 - No ID's
 - Component-based (`.btn {}`) not `.promo a {}`)
 - Portable (`.btn {}`) not `input.btn {}`)
 - Quasi-qualified (`/*ul*/.nav {}`)
 - UI components
 - Provide a meaningful name alongside an ambiguous class
 - Data-ui-component attribute (`class="ui-list" data-ui-component="products"`)

CSS Guidelines - <http://cssguidelin.es/>

GitHub - <https://github.com/stubbornella/oocss/wiki>

Smashing Magazine - <http://www.smashingmagazine.com/2011/12/an-introduction-to-object-oriented-css-oocss/>

Matt Stauffer - <https://mattstauffer.co/blog/organizing-css-oocss-smacss-and-bem>

CSS Implementation

- Take stock of all CSS we have (overview of entire project)
- Put classes on everything creating one component layer that is huge
 - Use intuitcss, OOCSS, and BEM methodologies
 - Find bad selectors and put a class on them
 - Remove unnecessary ID's
- Find common traits between components and then refactor
- Move refactored styles to CSS file for the layer they belong in