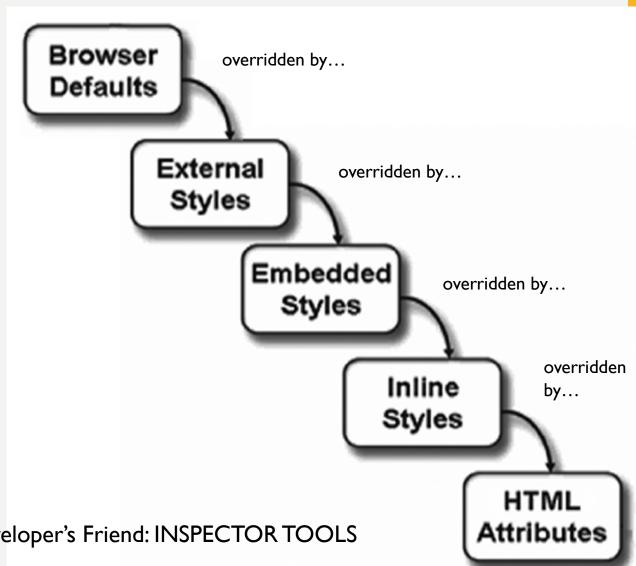
CSS ARCHITECTURE

HOW TO KEEP YOUR CSS-SANITY

CSS — THE WILD WILD WEST

- Multiple levels external, embedded, inline
- Multiple CSS files local file system and remote (CDNs)
- Intricately designed websites ...thousands (tens of thousands?) of lines of CSS
- CSS Frameworks on top of CSS Frameworks
- JavaScript functions insert inline styles dynamically



REMEMBER: The Web Developer's Friend: INSPECTOR TOOLS

THE WILD, WILD WEST

- Mandatory: large websites
 - Thousands of lines of CSS
- Separate CSS files
- CSS Groupings
 - Comment separators
- Keep similar styles together
- Any logic is better than no logic
- 2011: Jonathan Snook → SMACSS

RESET AND NORMALIZE

CSS LIBRARIES

RESET BY ERIC MEYER

- Idea: default browser settings are evil they must die!
- Your first CSS file: reset.css
- Everything looks plain THEN start styling
- Seemed like a good idea (in 2011)
- Problems:
 - Additional effort
 - Different browsers render pages differently still need browser testing
 - They don't save time

NORMALIZE BY NICOLAS GALLAGHER

- Idea: browsers render webpages differently; pick a standard and force them all to follow it
- Your first CSS file: normalize.css
- For better cross-browser consistency
- Fixes browser bugs (whenever possible)
- Leaves browser defaults intact (unlike reset.css)

SMACCS

AN OPINIONATED METHODOLOGY

SMACSS (SCALABLE AND MODULAR ARCHITECTURE FOR CSS)

- Pronounced "smacks"
- Style guide (not a library, not a template)
- Jonathan Snook web developer, author, Canadian
 - Circa 2011
 - One of the first published/popular methodologies for CSS organization
 - New concepts introduced:
 - Groupings: Base, Layout, Module, State, Theme
 - "depth of applicability" and the importance of "shallow design"

SMACSS' STRUCTURE

Create sections – defined by purpose

• By filename or by comment-sections

```
/* ***********
    Base styles
    *************
    body { . . .
h1 { . . .
/* ************
    Layout styles
    ****************/
```

Sections:

- Base
 - Defaults for the website
 - Exclusively element selectors

```
- e.g.p { color: #333333; }
```

- Layout
 - Page "areas" physical locations
 - e.g. #hero { border: 5px...
- Modules
 - Reusable, generic, simple
 - e.g. .danger{ color: red; }
- State
 - Inserted by JavaScript
 - e.g..is-current {...
- Theme...

SINCE SMACCS

MORE OPINIONATED METHODOLOGIES

FLAVORS

- SMACSS
 - https://smacss.com/
- BEM
 - https://en.bem.info/
- OOCSS
 - http://www.smashingmagazine.com/2011/1
 2/12/an-introduction-to-object-orientedcss-oocss/
- Point North
 - http://pointnorth.io/#base-browser-styling
- ITCSS
 - http://itcss.io/

- Title CSS
 - http://www.sitepoint.com/title-css-simpleapproach-css-class-naming/
- Idiomatic CSS
 - https://github.com/necolas/idiomatic-css
- Atomic Design
 - http://patternlab.io/resources.html
- SUIT CSS
 - https://github.com/suitcss/suit/blob/master /doc/naming-conventions.md#uutilityname
- Kickoff CSS
 - https://trykickoff.github.io/learn/css.html# namingscheme