Why Different Approaches To Naming Classes

CSS is fairly unique in the world

- Separates content from appearance
- Applies appearance based on structure

Class names are important

- Better define your structure
 - And **communicate** that structure
- Like naming the rooms of your house
 - By purpose
 - Not just walls/floor/ceiling/doors

Different Needs

Different pages/sites have different needs

- News/Informational sites
- Govt Agencies/Universities/Companies
- Different Product Areas for Sales/Support

Different breakdowns of Audience, Context, and Goals

CSS by Structure

You COULD add styling by structure

- div > ul > li > a
- Pro: Added HTML that matches gets styling
- Con: Sometimes that isn't intended or desired
- Con: Different structures will have different specificities

What alternatives exist?

Semantic CSS

Give elements class names that describe the **purpose**

Using Semantic CSS

Approach: Use Cascading, use semantic class names

Pros:

- Original "intent" of CSS
- No conflicts between class names and visuals
 - Keeps code maintainable
- Easily expands to more HTML

Cons:

- Can expand past your desire
- "Style all EXCEPT these" gets harder

Semantic CSS Example

- Style headings, lists, paragraphs
- Add specific classes for specific but common purposes (menus, callouts, etc)

See also: http://www.csszengarden.com/

Block__Element--Modifier (BEM)

A "fancy" Semantic CSS

Approach: Avoid wide rules, use semantic class names

Pros:

- Same benefits as Semantic
- Avoids unexpected side-effects

Cons:

- May have one-use classes
- What is a Block and Element may feel arbitrary

BEM Approach

"Block": area of content that gets styled

• Ex: <nav class="menubar">

"Element": subsection of that content

- Class name: BLOCK__ELEMENT
- Ex:

"Modifier": If an element has multiple variations

- Class name: BLOCK__ELEMENT--MODIFIER
- Ex:

BEM Benefits

- Reusable semantic structures
- Simplify structures by having a pattern to follow
- Minimize the specificity of rules
 - All selectors just 1 class
 - o 2 in case of Modifier

See HTML of: http://getbem.com/ for example

See http://getbem.com/faq/ for good details

We will revisit BEM later in semester

BEM Casing Syntax

Technically BEM is not kebab-case

- It is up to three parts connected
- BLOCK__ELEMENT--MODIFIER
 - Max of ONE of each part!
- Ex: primary-nav__link--active
- BLOCK, ELEMENT, and MODIFIER each kebab-case
 - Then __ and __ separate THOSE parts

Whenever I say "class names must be kebab-case"

- Correctly done BEM is still permitted
- Or just do semantic kebab-case, no BEM

Utility First CSS

Approach: No semantics

Name based on part of appearance

Pros:

- Once defined, easy to apply new content
- What you describe is what you get
- Less CSS

Cons:

- MANY more class names in HTML
- Design changes = Many HTML changes

Utility First Examples

Many common libraries: Tailwind CSS, etc

Utility First is hard for this course

Because utility first

- Involves an external library
- Or a ton of work

Utility First is HAPPY to "avoid class names"

• But I'm TEACHING class names

Starting out

Start with Semantic CSS

- Easy to shift to BEM
- Utility First avoids the concepts we are teaching
 - Both the good and the bad
- You WILL encounter Semantic
 - Need to understand it
- In future:
 - All approaches valid depending on needs

Summary - Approaches

- CSS are rules without a structure
- "Approach": How you organize your structures
- Three general common styles
 - Semantic
 - BEM (A fancy version Semantic)
 - Utility First
- Nothing formal, these are rough labels

Summary - Semantic

- Makes use of semantic class names
- Very reliant on structure
- Can easily have a rule apply in multiple places
 - Can be good or bad
- Easy to have same class names for different structures
- Good introduction to CSS

Summary - BEM

- A convention about naming semantic classes
- Goal is to "flatten" specificity
- Still can apply a rule to multiple places
 - More likely to be intended effect
- Fewer "broad" rules that apply multiple places
- An organized semantic approach

Summary - Utility First

- Discards semantics entirely
- Repetitive
- Controls precise look
- Less switching between HTML/CSS files
- Requires upfront investment to define standards

NOT USED IN THIS COURSE