Why Different Approaches

CSS is fairly unique in the approach

- separates content from appearance
- applies appearance based on structure

Different Needs

Different pages/sites have different needs

- A newspaper wants a consistent appearance that mimics a newspaper
- A page may expect to have radically different layouts for mobile/desktop
- A site might have content areas from different sources they don't want to conflict
- A site might have general rules and specific overrides

C in CSS

"Cascading" of rules (inheritance from parent containers) can cause or solve problems

• Just like in OO languages

Semantic CSS

Approach: Use Cascading, use semantic class names

Pros:

- Original "intent"
- 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)

```
<nav class="menubar">

<a href="about.html">About</a>
<a href="famous.html">Famous Cats</a>
<a href="lolcats.html">LOLCats</a>
</ui>
</nav>
```

Block-Element--Modifier (BEM)

Approach: Avoid cascading, use semantic class names

Pros:

- Same benefits as Semantic
- Avoids unexpected side-effects

Cons:

- May have one-use classes
- Definitions of Block and Element may be arbitrary

BEM Approach

"Block": area of content that gets styled

```
• e.g. <nav class="menubar">
```

"Element": subsection of that content

- class name: BLOCK-ELEMENT
- e.g.
- Similar elements in different blocks WILL NOT MATCH the selector

"Modifier": If an element has multiple states

- class name: BLOCK-ELEMENT--MODIFIER
- e.g.

Utility First CSS

Approach: No semantics, base on part of appearance

Pros:

• Once defined, easy to apply new content

Cons:

- Have to be consistent
- Requires class names match appearance

Utility First Examples

Many common libraries: Bootstrap, Tailwind CSS, etc

Utility First is hard for this course

Because utility first:

- involves an external library
- or a ton of work

They are hard to use in this course

Starting out

I recommend Semantic CSS to start with

- Easy to shift to BEM
- You avoid the pain of Utility First in the class
 - Even if you want utility first, you WILL encounter Semantic
 - Need to understand it
- In future, all approaches valid depending on needs