

Dropdown menus

- Common desire
- Can be done many ways
 - Pure CSS or with JS
- Surprisingly tricky

Base Concept of Implementation

- Menu placed over content, doesn't move content
 - that means `position: absolute;`
- Menu is initially hidden
 - `display: none;` or
 - `height/max-height: 0;` or
 - `transform: rotateX(-90deg);`
- Showing/not showing reacts to user
 - With JS: add/remove a class
 - Pure CSS: focus/focus-within/hover/active
- Menu stays open while submenu is navigated

HTML structure

- MANY options
 - makes googling hard
- Common pattern
 - menu is ``
 - each item may have text and a ``
 - "text" may or may not be a link
 - submenu `` contains `<a>` links

Sample

```
<ul class="menu">
  <li>
    <button type="button">Sleep</button>
    <ul>
      <li><a href="#">Paw over face</a></li>
      <li><a href="#">Head down</a></li>
      <li><a href="#">Curled up</a></li>
      <li><a href="#">On back</a></li>
    </ul>
  </li>
  <li>
    <button type="button">Eat</button>
    <ul>
      <li><a href="#">Scarf</a></li>
      <li><a href="#">Puke</a></li>
      <li><a href="#">Yowl if 10% of food is gone</a></li>
      <li><a href="#">Bury food</a></li>
    </ul>
  </li>
</ul>
```

Why buttons?

- Could be anything to make it work (span, etc)
- Buttons have a11y and keyboard benefits
- Notice `type="button"`
 - They don't DO anything when pressed
 - without JS, but we aren't using any
 - Buttons let us navigate with keyboard
 - We can style them to not look weird

Styling needs

CSS will be complex :(

- style menu and submenu and links
- position and hide submenu
- show submenu when condition is met

CSS complications

Are you doing a transition?

- no `display: none;` (what to transition?)
- no `height: auto;` (can cheat with `max-height`)

A11y?

- No `:hover` (by itself at least)
- Only some elements navigate with keyboard
 - thus why we had buttons
- Need `:focus-within` to work w/keyboard
- Don't remove outline/focus indicator