

# Common Patterns

The Web has many common UI patterns

- Those present in base HTML
  - bulleted lists, forms, etc
- Non-interactive, built from HTML
  - horizontal menus, "cards", etc
- Interactive, built from HTML
  - dropdown menus, accordions, modal

# Accordion Pattern

This UI Pattern is

- a collection of sections
- each with a title
- each can collapse/expand
- Sometimes only one/expanded at a time
- Sometimes only collapse by expanding another

# Accordion UI Pattern

<b>What to do about a catnip addiction?</b>	<b>+</b>
<b>Will I ever catch that red dot?</b>	<b>—</b>
Dolor dicta odio inventore ut qui dolore. Omnis recusandae quo porro voluptatibus veniam? Sed earum rem nobis quasi odit, similique ducimus Voluptatibus fugit sint error?	
<b>Why does the human have a problem with me claiming the center of the bed?</b>	<b>+</b>

# **Accordion considerations**

- What (if any) limitations on expand/collapse?
- Both keyboard and mouse controls?
- Accessibility concerns?
  - Semantic HTML
  - Indicating open/close

# Unicode Characters

"unicode" characters are a way of encoding characters

- Beyond common english characters and symbols
- Beyond european characters
- Beyond characters of all languages
- Includes an ever expanding list of emoji
  - But emoji can have a11y issues
  - Text may not match intention
    - 🤯 (dizzy face)
    - 🚩 (triangular flag on post)

# How to include a unicode character

- You already are
- but how to include those not on the keyboard?
  - Operating System (ex: apple emoji keyboard)
  - Cut-and-paste
  - Other ways depend on what kind of file is encoding it (js, css, HTML)



- HTML: `&#128049;`
- CSS: `\1F431`
- JS: `\uD83D\uDC31` or `\u{1F431}`

# Finding Unicode characters

Easiest: Search web

My current fav:

- **<https://unicode-table.com/en/1F431/>**

# Unicode warnings

- Font dependent!
  - <https://www.boredpanda.com/entomologist-rates-ant-emojis/>
- Be careful with language characters
  - <https://unicode-table.com/en/2630/>
    - Often misused for hamburger menu
  - Try to use the correct meaning



# Borders

We've used borders around a box to make it stand out

But they have additional uses/notes

- A dividing line by putting a border on one side
- open borders between areas to "connect" them

If two bordered boxes touch, you get a thicker line

- remove that side from one to fix
- Or overlap by using negative margins
  - when the lines aren't the same length

# Planning the HTML

What HTML are we rendering?

- Each entry is a div(?) container
  - Always question a div
  - But often a div
- Title will be button
  - For semantic meaning
- Link vs Button?
  - Link should navigate
  - This is on the line

# Plan the HTML 2

What additional structure do we need?

- How are we showing open/close?
  - Icons, text would be additional element
    - Might require a wrapper if so
  - `::before/::after` pseudo-elements
    - No extra elements required
    - But cannot have extra ARIA info
- No extra validation info or feedback
  - For this pattern

# Plan the appearance

- Clues for CSS
- Reality-checks HTML plan
- Title button full width
  - Padding to make a nice block
- Title will be on the left side of the button
- Show a "+/-" on the right side of the button
  - Based on open/close state
- Content will show/hide content
  - Show/hide via CSS vs include/not in HTML
    - Judgment call, all the same "content"
  - No animation for now

# Planning state

- Allowing multiple open?
  - On open action, do we close others?
- Is one always open?
  - On close action, act only if another open?

Beyond scope of this class

- But I recommend tracking "state"
  - Outside of DOM

# Accordion variations

- many sections, show one
- Similar UIs:
  - Show one vs Show many
  - re-collapse vs advance-only
  - Tabs
    - vertical or horizontal
  - Menus w/on-screen content
    - Just tabs with different UI

# Tabs UI Pattern

What to do about a catnip addiction?	Will I ever catch that red dot?	Why does the human have a problem with me claiming the center of the bed?
Amet minima assumenda debitis fugiat aut Illo adipisci accusantium totam est labore. Quam cum dolorum magni facere!		

# Consider when choosing

- Where is "navigation" interaction?
  - Tabs in same location
- When is navigation interactions?
  - Accordions CAN activate on focus
    - but do not have to
  - What about a staged form?
    - as you complete a "stage", the next "stage" becomes visible
- Where is visibility?
  - Accordions can push content off screen
- Title size (tabs prefer smaller titles)



# Summary - Accordion

- A UI Pattern of multiple collapsible sections
  - Can many sections be open
  - Which section(s) start open?

# Summary - Process

- Implement in steps
- Verify before advancing
  - HTML structure
    - Base on semantics
  - Appearance plan
    - Define needs for HTML + CSS
  - Verify A11y
    - Keyboard and accessibility labels min
- Final CSS clean up
  - Colors, whitespace, borders
  - Hover effects

# Summary - Implement

- CSS and JS
  - Build in cycles
    - Confirm each step
  - Manually force class states to confirm
- Implement state change handling last
  - You know the UI works already