Forms in React

- What changes with forms in React?
 - What doesn't change?
- How do we do validation?
- How to handle a11y with reusable Components?

Generated HTML is mostly the same

- You CAN skip <form>
 - No actual submission, after all
 - But probably don't want to
 - onSubmit is still useful

Validation Checks

- Check form field values:
 - onInput()
 - onChange()
 - React makes onChange() on text input act like onInput()
 - onSubmit()
 - I suggest saving to local state variables
 - Like "in progess" shown in previous class

Calculate Derived State and Render

- Local state variables have form field values
- "Should I show an error message?"
 - Is it a **derived state**?
 - Always based on other state value(s)
 - Calculate on render, do not store as state
 - Exception: Fields that default to invalid state
- Conditionally render error messages
 - based on those derived state(s)
- Error messages are just Conditionally Rendered

Accessibility Concerns

- Components are meant to be **reusable**
 - Can use repeatedly in application
 - Can use in other applications
- Forms need labels for a11y
 - Labels often rely on id attribute
 - id are NOT reusable
- How to resolve?

for in JSX

- Just like class attribute is changed to className
- for attribute of <label> is changed to htmlFor
 - Still refers to the id attribute of the element

Resolving the uniqueness problem

- React has a useId hook
- Gives a unique value for each component
- Use as a prefix if you have multiple fields
- Can't be targeted by CSS
 - Use className for that part