

JSX, State, Lifecycle methods

William Abboud

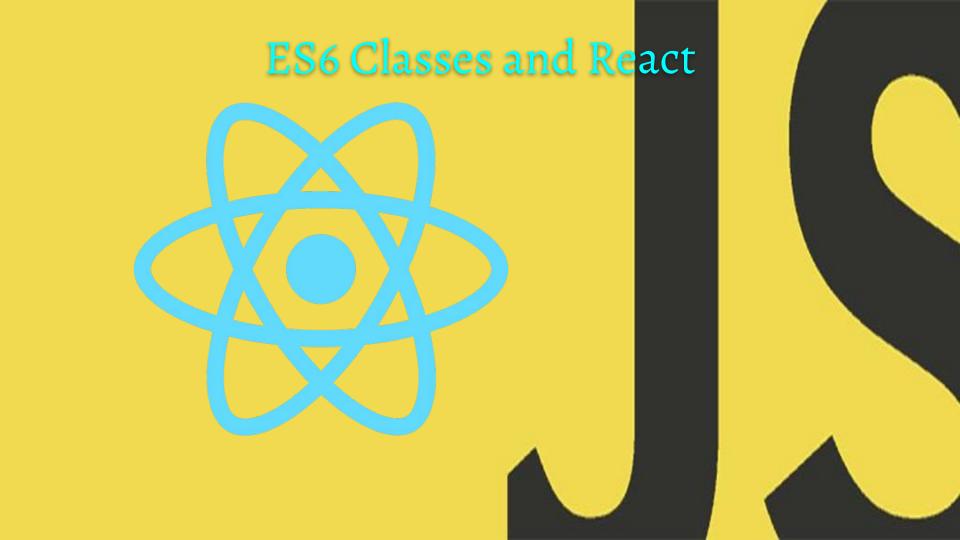
JSX Deep Dive

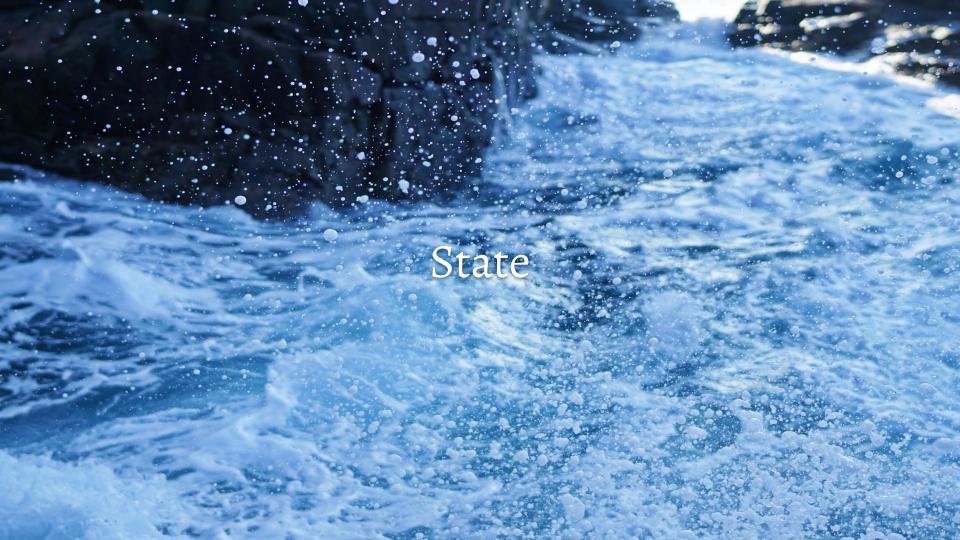
- XML-like syntax to create UI elements
- Compiles down to
 React.createElement() functions
- Needs React in scope
- Capitalize custom components
- Pass JS expressions in props
- Pass strings into props directly
- Booleans attributes default to true
- Spread attributes
- Children
- Comments



Displaying JSON data

```
"artist": "Eminem",
"real-name": "Marshall Bruce Mathers III",
"aliases": ["Ken Kaniff", "Marshall Mathers", "Slim Shady"],
        "name": "Infinite",
        "name": "The Slim Shady LP",
        "name": "The Marshall Mathers LP",
        "name": "The Eminem Show",
        "year": "2002"
        "name": "Encore",
        "year": "2004"
```





PropTypes

- Used for documentation
- Evaluates props runtime
- Can remove the need to use typeof operator
- Can be used as API documentation

Composition

- Composition offers the ability to create hierarchies of components
- Increases reusability
- Easy to test
- Easy to isolate bugs or errors



Initialization phase

- 1. GetDefaultProps called only once to return default props
- 2. GetInitialState called only once to return an initial state object
- 3. ComponentWillMount called before render, useless
- 4. Render returns your markup for rendering, has to be pure
- 5. ComponentDidMount called last, most frequently used to do AJAX calls, and interacting with the DOM

Update phase - Props

- ComponentWillReceiveProps used to set state based on upcoming props
- ShouldComponentUpdate determines renders on props/state update
- ComponentWillUpdate used to prepare for update (no setState) almost useless
- 4. ComponentDidUpdate basically just like componentDidMount but for after update widely used to change the DOM

Update phase - State

- ShouldComponentUpdate determines renders on props/state update
- ComponentWillUpdate used to prepare for update (no setState) almost useless
- ComponentDidUpdate basically just like componentDidMount but for after update widely used to change the DOM

Unmounting

 ComponentWillUnmount - called before the component is removed from the DOM, used to clear out any side effects such as leftover timeouts, event listeners etc.