#### React and Redux: Lesson 2

JSX, State and rendering data

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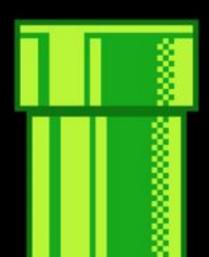
## JSX Deep Dive

- 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





# One way Data Flow and props



### Sample React Component

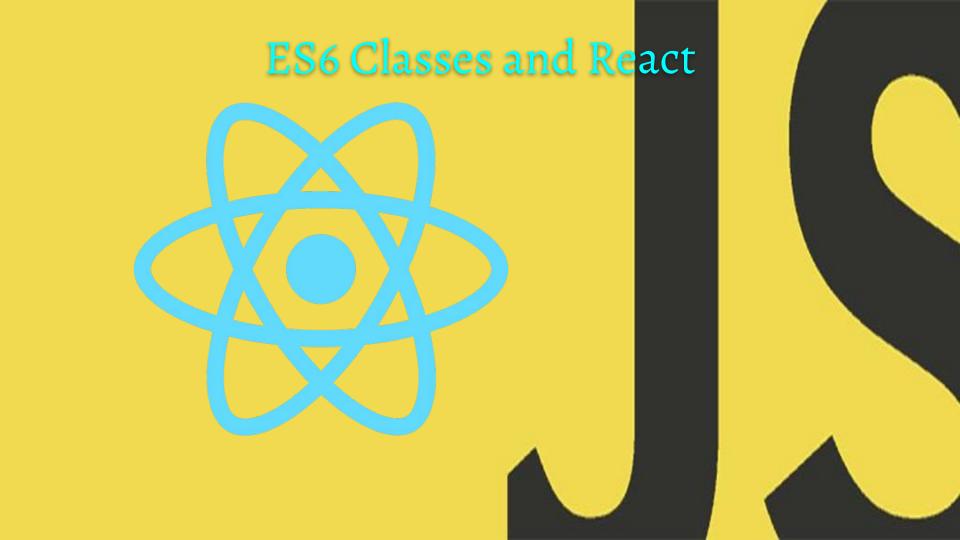
```
function renderListItem(child, i, listItemClassName) {
       return (
          16 function List(props) {
      -const otherProps = Object.assign({}, props);
      return (
      -listItemClassName: React.PropTypes.string,
      children: React.PropTypes.array.isRequired
```

# 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"
```







#### Keys

- Keys are used to uniquely identify elements
- Keys are used by React to identify elements to potentially reduce rerenders
- Keys have to be unique
- Keys often come from IDs from a database
- Keys must always be present when rendering list of similar items

#### Events

- Clipboard Events
- Composition Events
- Keyboard Events
- Focus Events
- Form Events
- Mouse Events
- Pointer Events
- Selection Events
- Touch Events

# Fetching JSON data

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