

Class-based Components

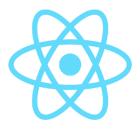
Using classes for your components, methods, state and props

Types of components

Function Components

Class Components

Class-based components



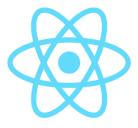
- In this concept, components are just classes
- Classes have a required render() function
- They can have an optional constructor, methods and a state
 object
 - state in the constructor
 - state as standalone class property
- You don't have to learn new concepts, as all components are equal!
- It's a matter of personal preference

For instance: <DisplayCounter />

Import {Component}

```
also
  import React, {Component} from 'react'
  class DisplayCounter extends Component {
                                                Constructor
      // Optional constructor, to initialize th
                                                               component
                                                 w/props
      constructor(props) {
          super(props);
          this.state = {
                                                                 Local state
              // optional: some local state
render()
function
         mandatory render() function, to render the UI
      render() {
          return (
              <h2>
                  {this.props.counter}
              </h2>
                                  Access props and
                                   methods via this
                                        keyword
  export default DisplayCounte
```

But: no Hooks in classes!



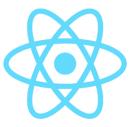
Use a local state object and the method

```
.setState({...})
```

```
class App extends Component {
    state = {
        counter: 0
    };
    incrementCounter(val) {
        const newCounter = this.state.counter + val;
        this.setState({
            counter: newCounter
        });
                          Update state via
```

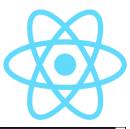
this.setState(...)

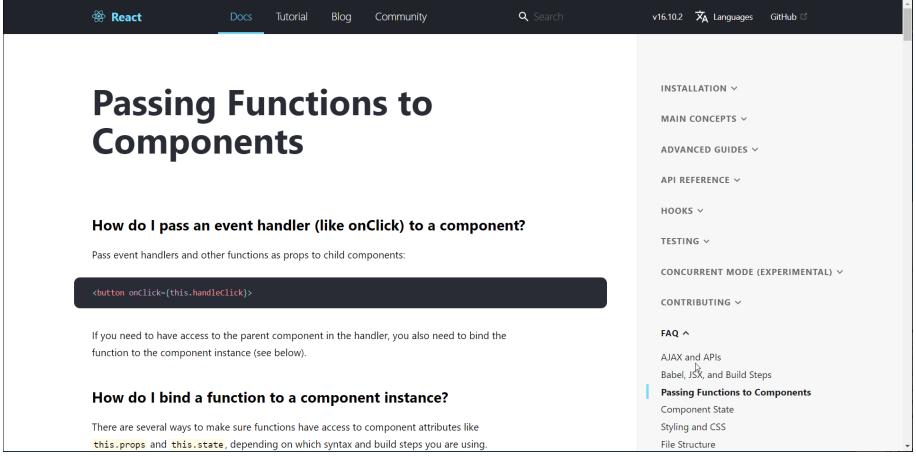
Use arrow function in render



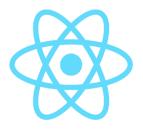
```
render() {
     return (<div className="containe">
             <h2>Hello React</h2>
             <Counter increment={() => this.incrementCounter(40)} val={40}/>
             <DisplayCounter counter={this.state.counter}/>
         </div>
};
                                                    React App
                                                    ← → C ♠ ① localhost:3000
Use the keyword this whenever you
                                                    Hello React
access state or instance methods
                                                     +40
                                                    120
More info: https://reactjs.org/docs/faq-functions.html
```

Passing functions to components

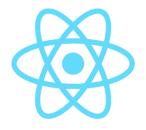




Checkpoint



- You know about class based components
- You know how to define and access state in a class based component
- You know how to pass props and functions down to child components in a class-based component



Verdict year 2024+

classes are used less and less often.

Focus is now on React Hooks. But

you still need to know and learn

them!