Components



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Overview



Component basics

Kinds of components

Component anatomy

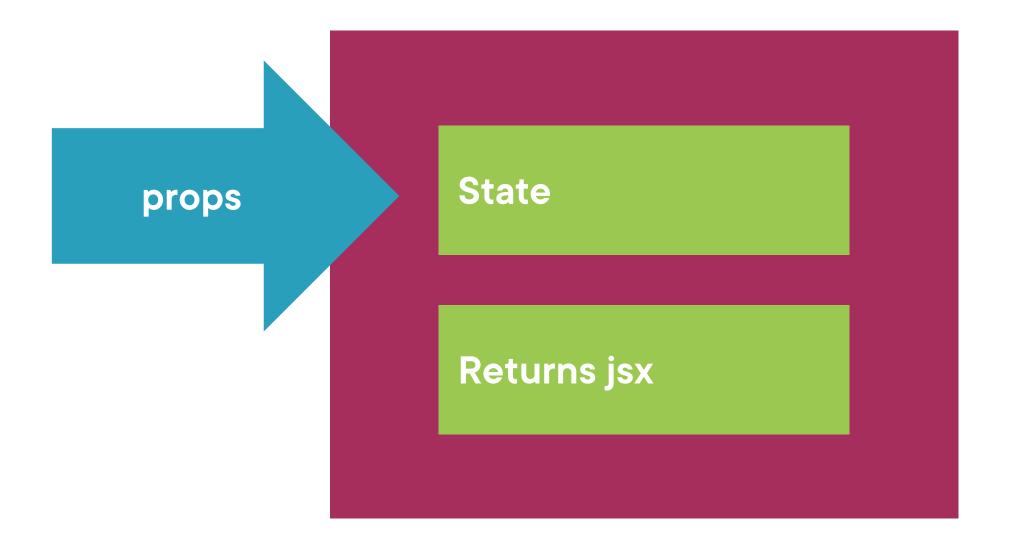
Hooks

Router

Arranging and reuse



A Component



<Component prop="value"/>



Components

Function Class



Why Function Components?

Complexities around the use of classes

Functions in combination with hooks enable straightforward components creating structured apps



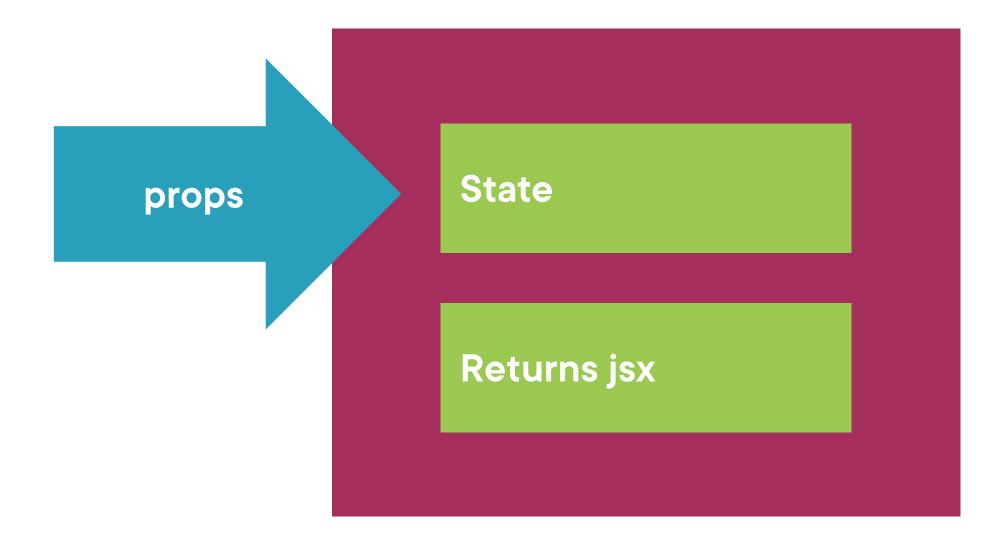
React re-renders a component when a prop or state value changes



A hook lets you hook into React's internals in a function component.



A Component





Router

```
<Router>
  <h1>
   Hi there!
  </h1>
  <Switch>
     <Route path="/about">
       <About>
       </About>
     </Route>
     <Route path = "/">
       <FeaturedHouse/>
     </Route>
  </Switch>
</Router>
```

Router

```
<Router>
  <h1>
   Hi there!
  </h1>
  <Switch>
     <Route path="/about">
       <About>
       </About>
     </Route>
     <Route path = "/">
       <FeaturedHouse/>
     </Route>
  </Switch>
</Router>
```

www.react.com

Router

```
<Router>
  <h1>
   Hi there!
 </h1>
  <Switch>
     <Route path="/about">
       <About>
       </About>
     </Route>
     <Route path = "/">
       <FeaturedHouse/>
     </Route>
 </Switch>
</Router>
```

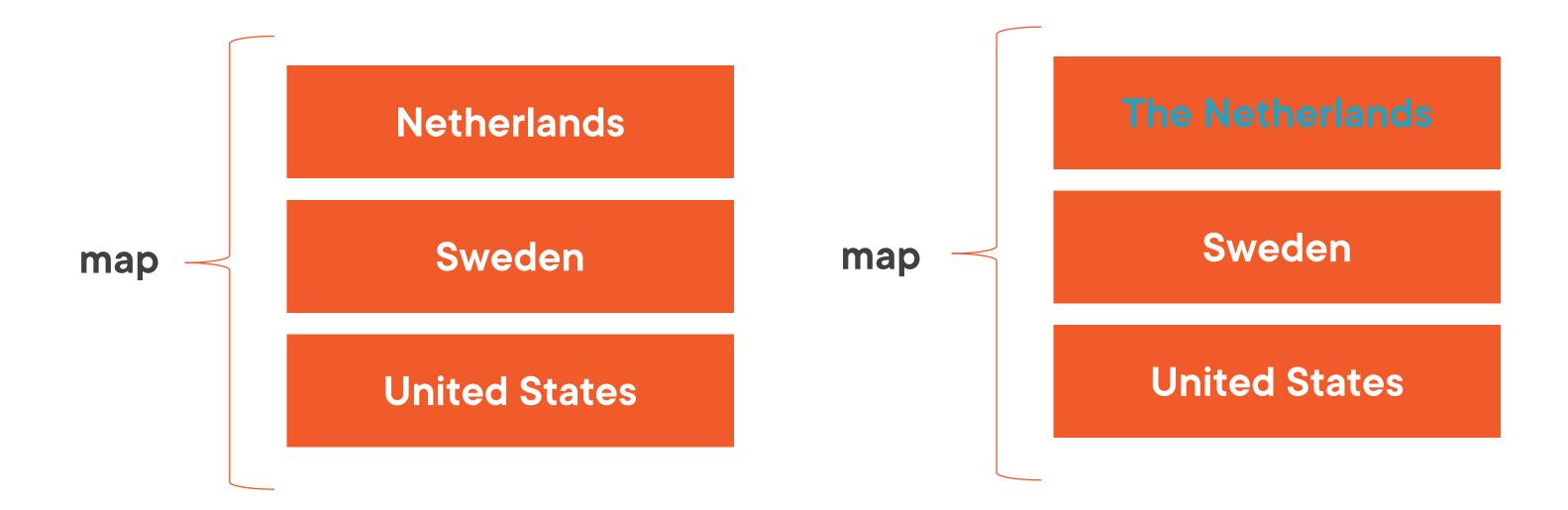
www.react.com/about

key

Collection:
Country "Netherlands"
Country "Sweden"
Country "United States"

Collection:
Country "The Netherlands"
Country "Sweden"

Country "United States"



key

```
Collection:
```

Country 1 "Netherlands"

Country 2 "Sweden"

Country 3 "United States"

1. Netherlands

2. Sweden

3. United States

```
<Router>
                <Switch>
                  <Route path="/">
                    <FeaturedHouse house={featuredHouse} />
                  </Route>
www.react.com
                  <Route path="/search">
                    <SearchResults/>
                  </Route>
                </Switch>
            </Router>
```

```
<Router>
                       <Switch>
                         <Route path="/">
                           <FeaturedHouse house={featuredHouse} />
                         </Route>
www.react.com/
                         <Route path="/search">
                           <SearchResults/>
                         </Route>
                       </Switch>
                  </Router>
```

```
<Router>
                       <Switch>
                         <Route exact path="/">
                           <FeaturedHouse house={featuredHouse} />
                         </Route>
www.react.com/search
                         <Route path="/search">
                           <SearchResults/>
                         </Route>
                       </Switch>
                  </Router>
```

```
<Router>
                       <Switch>
                         <Route path="/search">
                           <SearchResults/>
                         </Route>
www.react.com/search
                         <Route path="/">
                           <FeaturedHouse house={featuredHouse} />
                         </Route>
                       </Switch>
                  </Router>
```

Summary



Function components

Props

Value references

Hooks

Router

Tips

