React Context API

Context is key…

What does it do?

The Context API provides a way to make data globally available without having to pass it down through the tree

⚠️ Not so fast

Please consider the environment before using the Context API.

⚠️ The Context API…

- Makes your components harder to **reason about**
- Makes your components harder to **reuse**
- Makes your components harder to **test**

👍 That Said…

There are some legitimate use cases.
(Obviously, or it probably wouldn’t exist)
For example…

- Logged-in User
- Theme definition

Context works in pairs

Each context has a **Provider** and a **Consumer**

```
// MyContext.js
export default React.createContext(42)

// App.js
import MyContext from './MyContext'
import MyComponent from './MyComponent'

const App = (props) => (
  <MyContext.Provider value={43}>
    <MyComponent />
  </MyContext.Provider>
)


// MyComponent.js
import MyContext from './MyContext'

export default (props) => (
  <MyContext.Consumer>{(val) => {
    <p>Value: {val}</p>
  }}</MyContext.Consumer>
)
```

Alternatives to Render Props

`static contextType`

Use it in a **class component** if you only need access to **one context**

```
import MyContext from './MyContext'

class MyComponent extends React.Component {

  static contextType = MyContext

  render() {
    const val = this.context
    return <p>Value: {val}</p>
  }
}
```

Alternatives to Render Props

`useContext()`

Use it in a **function component.**

Can access multiple contexts

```
import MyContext1 from './MyContext1'
import MyContext2 from './MyContext2'

const MyComponent = (props) => {

  const val1 = useContext(MyContext1)
  const val2 = useContext(MyContext2)

  return <ul>
    <li>Value 1: {val1}</li>
    <li>Value 2: {val2}</li>
  </ul>
}
```

[demo]