



# Understanding ReactJS

@ Florida DrupalCamp 2021

<https://udrupal.com/understanding-reactjs>



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# Contribution Day

Saturday, February 20, 2021

12:00pm - 3:30pm

First-time contributor workshop • Mentored contribution • General contribution

#DrupalContributions

<https://www.fldrupal.camp/conference/contribution-day>

Why use ReactJS?

# Learn once, write everywhere



Web



React Native

Mobile



React 360

VR

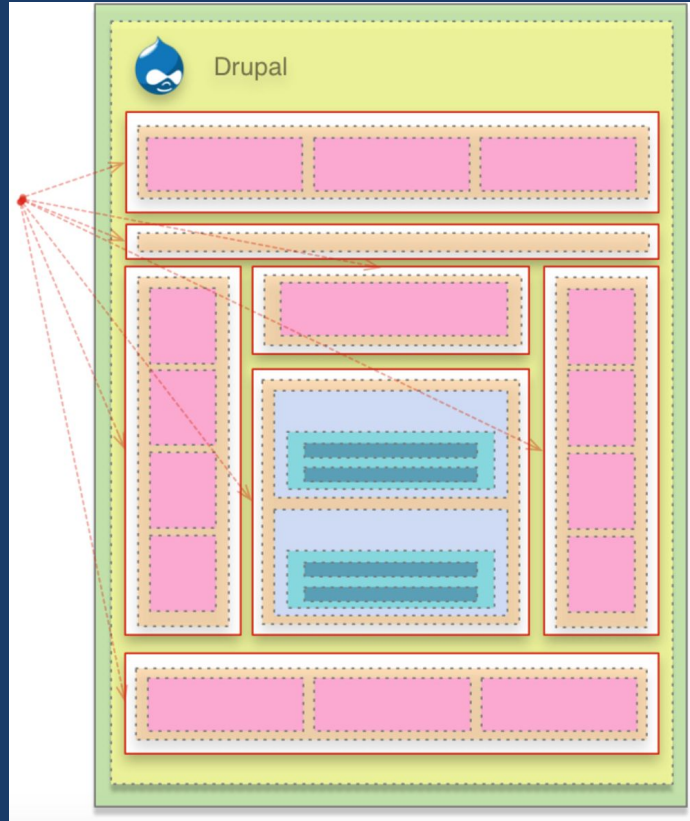


PROTON  
NATIVE

Desktop

<https://github.com/chentsulin/awesome-react-renderer>

# Incremental implementation



# Great developer experience

- Small API surface.
- Use existing JavaScript constructs. E.g.: templating in vanilla JavaScript.
- Great error reporting and developer tools.
- Easy to get started. Build process not required. E.g.: unpkg.com & codesandbox.io
- Codemods that help automate code updates when ReactJS APIs change.

<https://github.com/reactjs/react-codemod>



# Live demo (what can go wrong?)



[https://github.com/dinarcon/reactjs\\_intro](https://github.com/dinarcon/reactjs_intro)

From elements to components to full applications

# Widely adopted

- Vibrant community.
- Big companies. Big needs.
- In high demand. Jobs abound.
- Implementation of popular frontend libraries are available.

<https://stackshare.io/react>

<https://github.com/enaqx/awesome-react>

# What about...?

- Accessibility? Reach UI
- SEO? React Helmet
- Websites? Gatsby
- Enterprise applications? Next.js
- Performance? React itself `\_(ツ)_/`

<https://www.stefankrause.net/js-frameworks-benchmark7/table.html>

How much ES6 do I need to know?

What you already know is enough  
to start!

# ES6 for React

- Deconstruction of array and objects
- Spread and rest operator
- String literals
- `Array.map()` & `Array.filter()` & `Array.reduce()`
- Object mutation. `Object.assign()`
- Binding of ``this`` & arrow functions
- ES Modules

**Getting better at React means getting better at JavaScript.**

<https://reacttraining.com/blog/javascript-the-react-parts>

Other concepts

# PropTypes

```
import PropTypes from 'prop-types';

class Greeting extends React.Component {
  render() {
    return (
      <h1>Hello, {this.props.name}</h1>
    );
  }
}

Greeting.propTypes = {
  name: PropTypes.string
};
```

<https://reactjs.org/docs/typechecking-with-proptypes.html>



# Context

```
const ThemeContext = React.createContext('light');

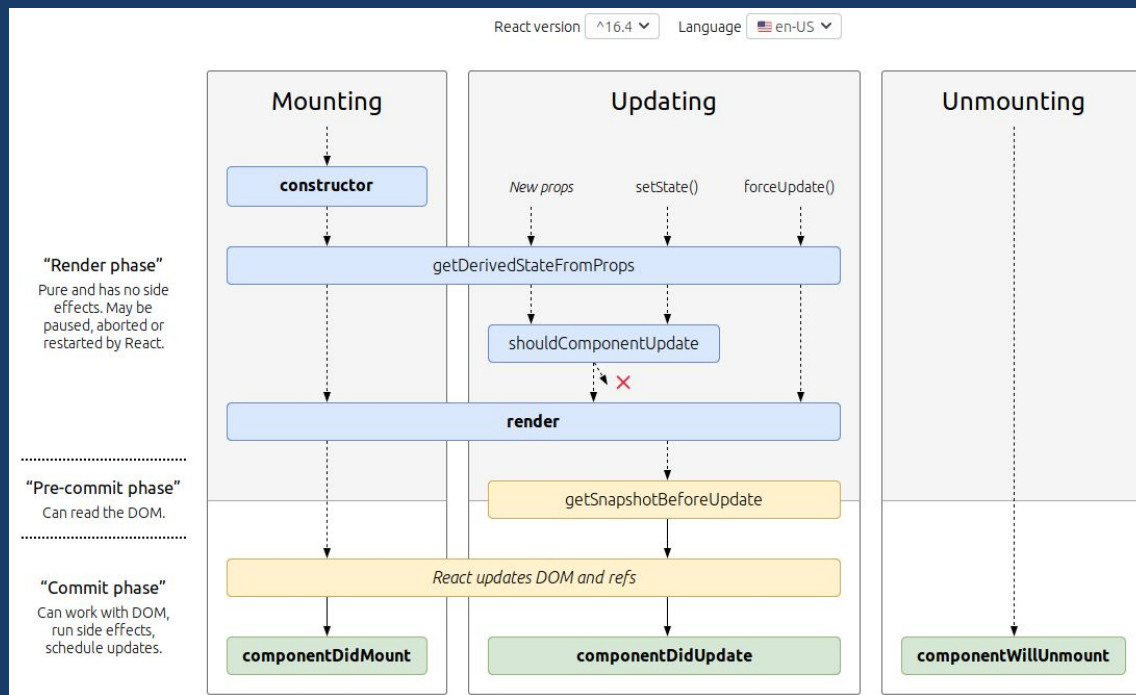
class App extends React.Component {
  render() {
    return (
      <ThemeContext.Provider value="dark">
        <Toolbar />
      </ThemeContext.Provider>
    );
  }
}

function Toolbar(props) {
  return ( <div><ThemedButton /></div> );
}

class ThemedButton extends React.Component {
  static contextType = ThemeContext;
  render() { return <Button theme={this.context} />; }
}
```

<https://reactjs.org/docs/context.html>

# Lifecycle methods



<https://github.com/wojtekmaj/react-lifecycle-methods-diagram>

# Hooks

```
import React, { useState } from 'react';

function Example() {
  // Declare a new state variable, which we'll call "count"
  const [count, setCount] = useState(0);

  return (
    <div>
      <p>You clicked {count} times</p>
      <button onClick={() => setCount(count + 1)}>
        Click me
      </button>
    </div>
  );
}
```

<https://reactjs.org/docs/hooks-intro.html>

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# Nicaragua





**USA | Nicaragua | México | Germany**

Getting Started with



Convert a **static site** into a  
**dynamic application**

**COURSE**

[www.understanddrupal.com/reactjs](http://www.understanddrupal.com/reactjs)

# Please Provide Feedback

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