



# React Cheat Sheet

A javascript library for building user interfaces.

DEMO: <https://s.codepen.io/ericnakagawa/debug/ALxakj>  
GITHUB: <https://github.com/facebook/react>  
DOCUMENTATION: <https://facebook.github.io/react/docs/>  
CDN: <https://cdnjs.com/libraries/react/>



## Hello World

```
// Import React and ReactDOM
import React from 'react'
import ReactDOM from 'react-dom'

// Render component into the DOM - only once per app
ReactDOM.render(
  <h1>Hello, world!</h1>,
  document.getElementById('root')
);
```

## Stateless Components

```
// Stateless React Component
const Headline = () => {
  return <h1>React Cheat Sheet</h1>
}

// Component that receives props
const Greetings = (props) => {
  return <p>You will love it {props.name}</p>
}

// Component must only return ONE element (eg. DIV)
const Intro = () => {
  return (
    <div>
      <Headline />
      <p>Welcome to the React world!</p>
      <Greetings name="Petr" />
    </div>
  )
}

ReactDOM.render(
  <Intro />,
  document.getElementById('root')
);

// Components and Props API - http://bit.ly/react-props
// CodePen Demo: http://bit.ly/react-simple
```

## ES6 Class

```
// use class for local state and lifecycle hooks
class App extends React.Component {

  constructor(props) {
    // fires before component is mounted
    super(props); // makes this refer to this component
    this.state = {date: new Date()}; // set state
  }

  render() {
    return (
      <h1>
        It is {this.state.date.toLocaleTimeString()}.
      </h1>
    )
  }

  componentWillMount() {
    // fires immediately before the initial render
  }

  componentDidMount() {
    // fires immediately after the initial render
  }

  componentWillReceiveProps() {
    // fires when component is receiving new props
  }

  shouldComponentUpdate() {
    // fires before rendering with new props or state
  }

  componentWillUpdate() {
    // fires immediately before rendering
    // with new props or state
  }

  componentDidUpdate() {
    // fires immediately after rendering with new P or S
  }

  componentWillUnmount() {
    // fires immediately before component is unmounted
    // from DOM (removed)
  }
}

// CodePen Demo: http://bit.ly/react-es6-class
```

## Conditional Rendering

```
// conditional rendering of elements and CSS class
render() {
  const {isLoggedIn, username} = this.state;
  return (
    <div className={`login ${isLoggedIn ? 'is-in' : 'is-out'}>
      {
        !!isLoggedIn ?
        <p>Logged in as {username}</p>
        :
        <p>Logged out.</p>
      }
    </div>
  )
}

// CodePen Demo: http://bit.ly/react-if-statements
```

## Tools and Resources

```
// Create React App
http://bit.ly/react-app
// React Dev Tools for Chrome
http://bit.ly/react-dev-tools
// React Code Snippets for Visual Studio Code
http://bit.ly/react-es6-snippets-for-vscode
// Babel for Sublime Text 3
http://bit.ly/babel-sublime
```

## Free Online Course React.js 101

The Quickest Way To Get  
Started With React.js

<http://bit.ly/get-react-101>

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