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React.js cheatsheet

React is a JavaScript library for building user interfaces. This guide targets React v15 to v16.

Components

```
import React from 'react'
import ReactDOM from 'react-dom'

class Hello extends React.Component {
  render () {
    return <div className='message-box'>
        Hello {this.props.name}
      </div>
  }
}

const el = document.body
ReactDOM.render(<Hello name='John' />, el)
```

Properties States

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Use the React.js jsfiddle to start hacking. (or the unofficial jsbin)

```
class Info extends React.Component {
  render () {
    const { avatar, username } = this.props

    return <div>
        <UserAvatar src={avatar} />
        <UserProfile username={username} />
        </div>
  }
}
```

As of React v16.2.0, fragments can be used to return multiple ch without adding extra wrapping nodes to the DOM.

Children

```
<AlertBox>

</AlertBox>

class AlertBox extends Rearender () {
   return <div className:
      </div>
   }
}
```

Children are passed as the chil

Nest components to separate concerns.

See: Composing Components

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Defaults

Setting default props

```
color: 'blue'
See: defaultProps
```

Setting default state

```
class Hello extends React.Component {
  constructor (props) {
    super(props)
Set the default state in the constructor().
See: Setting the default state
```

Other components

Function components

```
return <div className='message-box'>
 Hello {name}
</div>
```

Pure components

Component API

```
this.forceUpdate()
this.setState({ ... })
```

Functional components have no state. Also, their props are pass first parameter to a function.

See: Function and Class Components

Performance-optimized version of React.Component. Doesn't reprops/state hasn't changed.

See: Pure components

this.state this.props

These methods and properties

See: Component API

Lifecycle

Mounting

constructor (props)	Before rendering #	
componentWillMount()	Don't use this #	
render()	Render #	
componentDidMount()	After rendering (DOM available) #	
componentWillUnmount()	Before DOM removal #	
componentDidCatch()	Catch errors (16+) #	
Set initial the state on constructor(). Add DOM event handlers, timers (etc) on componentDidMount(), then remove them on componentWillUnmount().		

Updating

componentWillReceiveProps (newProps)	Use setSt
shouldComponentUpdate (newProps, newState)	Skips r
componentWillUpdate (newProps, newState)	Can't use s
render()	
componentDidUpdate (prevProps, prevState)	Operate o
Called when parents change properties and .setSt called for initial renders.	cate(). These
See: Component specs	

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References

```
class MyComponent extends React.Component {
  render () {
    return <div>
        </div>
    }
    componentDidMount () {
    }
}
Allows access to DOM nodes.
See: Refs and the DOM
```

DOM Events

```
class MyComponent extends React.Component {
  render () {
      <input type="text"
           value={this.state.value}

    }
  onChange (event) {
  }
}</pre>
```

Pass functions to attributes like onChange.

See: Events

Other features

Transferring props

```
<VideoPlayer src="video.mp4" />

class VideoPlayer extends React.Component {
  render () {
```

Top-level API

```
React.createClass({ ... })
React.isValidElement(c)

ReactDOM.render(<Component />, domnode, [callback])
ReactDOM.unmountComponentAtNode(domnode)
```

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```
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}

Propagates src="..." down to the sub-component.

See Transferring props
```

```
ReactDOMServer.renderToString(<Component />)
ReactDOMServer.renderToStaticMarkup(<Component />)

There are more, but these are most common.

See: React top-level API
```

JSX patterns

Style shorthand

```
var style = { height: 10 }
return <div style={style}></div>

return <div style={{ margin: 0, padding: 0 }}></div>
See: Inline styles
```

Conditionals

```
<div>
   {showMyComponent
    ? <MyComponent />
```

Inner HTML

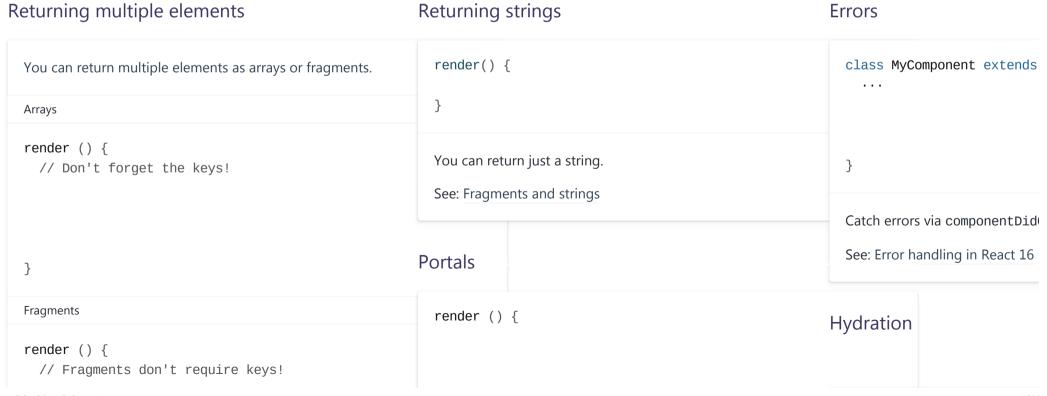
```
function markdownify() { return "..."; }
<div dangerouslySetInnerHTML={{__html: markdownify()}}
See: Dangerously set innerHTML</pre>
```

Lists

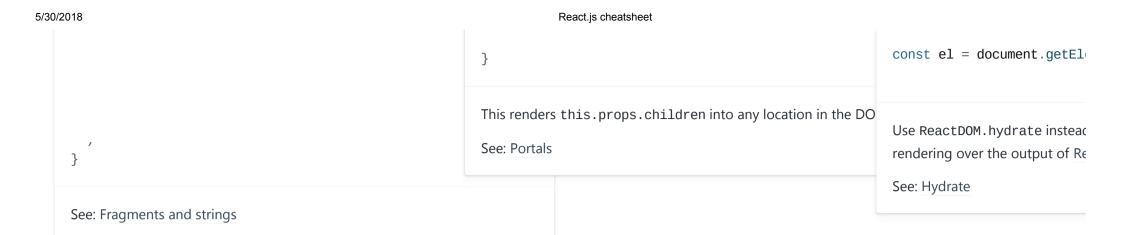
```
class TodoList extends React.Component {
  render () {
    const { items } = this.props
    return
```

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New features



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Property validation

```
PropTypes
                                                      Basic types
                                                                                                            Required types
  import PropTypes from 'prop-types'
                                                        MyComponent.propTypes = {
                                                                                                              MyCo.propTypes = {
                                                          email:
                                                                      PropTypes.string,
                                                                                                                name: PropTypes.string
                                                                      PropTypes.number,
                                                          seats:
  See: Typechecking with PropTypes
                                                          callback:
                                                                     PropTypes.func,
                                                          isClosed:
                                                                      PropTypes.bool,
                                                                      PropTypes.any
                                                          any:
  any
                                                                                                            Elements
  Basic
                                                                                                              MyCo.propTypes = {
  string
                                                                                                                // React element
                                                      Enumerables (oneOf)
                                                                                                                element: PropTypes.elem
  number
                                                        MyCo.propTypes = {
                                                                                                                        string, element
  func
                                                          direction: PropTypes.oneOf([
```

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```
'left', 'right'
                                                                                                                               ropTypes.node
bool
                                                            ])
Enum
                                                                                                                  Arrays and objects
oneOf(any)
                                                        Enum types
                                                        Custom validation
oneOfType(type array)
                                                                                                                     MyCo.propTypes = {
                                                                                                                               ropTypes.array,
Array
                                                          MyCo.propTypes = {
                                                                                                                               ropTypes.arrayOf
                                                            customProp: (props, key, componentName) => {
                                                                                                                               ropTypes.object,
array
                                                              if (!/matchme/.test(props[key])) {
                                                                                                                               ropTypes.object0
                                                                 return new Error('Validation failed!')
                                                                                                                                PropTypes.insta
array0f(...)
Object
object
                                                                                                                               Types = {
                                                                                                                       user: PropTypes.shape({
                                   Object with values of a certain type
objectOf(...)
                                                                                                                         name: PropTypes.string
                                                                                                                         age: PropTypes.numbe
instanceOf(...)
                                                  Instance of a class
                                                                                                                       })
                                                                                                                     }
shape(...)
Elements
                                                                                                                     Use .array[0f], .object[0f]
                                                      React element
element
                                                        DOM node
node
(···).isRequired
                                                          Required
  React website (reactjs.org)
  React cheatsheet (reactcheatsheet.com)
```

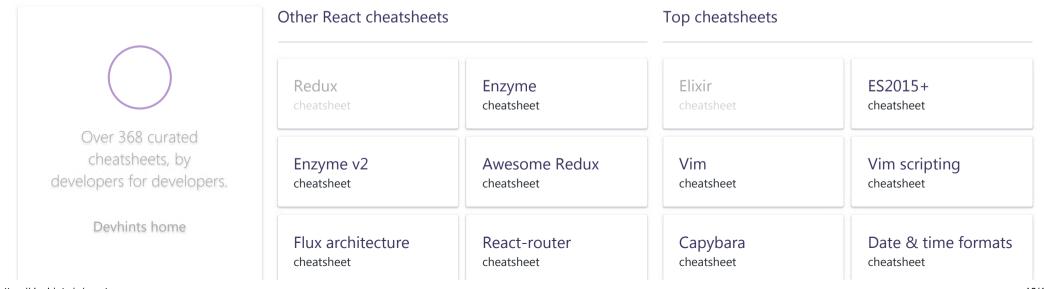
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Awesome React (github.com)

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