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# React.js cheatsheet

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

#### Components

#### Import multiple exports

```
import React from 'react'
                                                         import React, {Component} from 'react'
  import ReactDOM from 'react-dom'
                                                         import ReactDOM from 'react-dom'
  class Hello extends React.Component {
                                                         class Hello extends Component {
    render () {
      return <div className='message-box'>
                                                         }
        Hello {this.props.name}
      </div>
                                                       States
    }
  }
                                                         constructor(props) {
  const el = document.body
                                                           super(props)
  ReactDOM.render(<Hello name='John' />, el)
                                                           this.state = { username: undefined }
                                                         }
  Use the React.js jsfiddle to start hacking. (or the unofficial jsbin
                                                         this.setState({ username: 'rstacruz' })
                                                         render () {
Children
```

```
<AlertBox>

</AlertBox>

ta.

class AlertBox extends Component {
  render () {
    return <div className='alert-box'>
```

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```
</div>
}
Children are passed as the children property.
```

# # Defaults

## Setting default props

## Setting default

```
color: 'blue'
}

See: defaultProps

Class Hello ext constructor (
super(props
}

Set the default sta
And without const
```

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```
class Hello ext
}
```

See: Setting the de

# † Other components

## **Functional components**

#### Pure components

```
import React, {PureComponent} from 'react return <div className='message-box'>
    Hello {name}
    </div>
}

Functional components have no state. Also, their props are pa
See: Function and Class Components

See: Pure components
```

# ‡ Lifecycle

# Mounting Updating constructor (props) Bef componentDidUpc componentWillMount() shouldComponent render() componentDidMount() After rendering (D componentDidUpc

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```
Before I
componentWillUnmount()
                                                                                        Called when parer
componentDidCatch()
                                                                                  Catc
                                                                                        See: Component s
Set initial the state on constructor(). Add DOM event handlers, timers (etc) on componentDidMount(),
then remove them on componentWillUnmount().
```

# # Hooks (New)

function Example() {

```
State Hook
                                                                              Declaring multi
  import React, { useState } from 'react';
                                                                                 function Exampl
                                                                                   // Declare mu
```

```
// Declare a new state variable, which we'll call "count"
return (
 <div>
   You clicked {count} times
                                                                         Effect hook
     Click me
   </button>
 </div>
);
```

import React, {

function Exampl const [count,

const [age, s

const [fruit, const [todos,

// ...

}

Hooks are a new addition in React 16.8.

See: Hooks at a Glance

}

## Building your own hooks

```
return (
  <div>
```

<n>You c]

```
Define FriendStatus
                                                                                                        \langle n \rangle
import React, { useState, useEffect } from 'react';
                                                                                                        n>
function FriendStatus(props) {
  const [isOnline, setIsOnline] = useState(null);
 useEffect(() => {
```

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```
function handleStatusChange(status) {
      setIsOnline(status.isOnline);
                                                                                                        r w
    }
                                                                                                        10ι
                                                                                                        t r
    };
  }, [props.friend.id]);
                                                                                        Hooks API Refe
  if (isOnline === null) {
    return 'Loading...';
  }
  return isOnline ? 'Online' : 'Offline';
                                                                                          Also see: Hooks FA
}
                                                                                          Basic Hooks
                                                                                          useState(initialStat
Effects may also optionally specify how to "clean up" after them by returning a function.
                                                                                          useEffect(() => { .
Use FriendStatus
function FriendStatus(props) {
                                                                                          useContext(MyCo
                                                                                          Full details: Basic F
  if (isOnline === null) {
    return 'Loading...';
                                                                                          Additional Hooks
  return isOnline ? 'Online' : 'Offline';
                                                                                          useReducer(reduce
}
                                                                                          useCallback(() =>
See: Building Your Own Hooks
                                                                                          useMemo(() => { ... })
                                                                                          useRef(initialValue)
                                                                                          useImperativeHa
                                                                                          useLayoutEffect
                                                                                          useDebugValue(va
                                                                                          Full details: Addition
```

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## **# DOM nodes**

Reterences	DON	∕I Events

```
class MyComponent extends Component {
                                                                                      class MyCompone
  render () {
                                                                                        render () {
    return <div>
                                                                                          <input typ€
                                                                                               value={
    </div>
  }
                                                                                        }
  componentDidMount () {
                                                                                        onChange (eve
  }
                                                                                        }
}
                                                                                      }
Allows access to DOM nodes.
                                                                                      Pass functions to a
See: Refs and the DOM
                                                                                      See: Events
```

# † Other features

## Transferring props Top-level API

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# # JSX patterns

```
Style shorthand
                                                                                  Inner HTML
  const style = { height: 10 }
                                                                                    function markdo
  return <div style={style}></div>
                                                                                    <div dangerousl
  return <div style={{ margin: 0, padding: 0 }}></div>
                                                                                    See: Dangerously :
  See: Inline styles
                                                                                  Lists
Conditionals
                                                                                    class TodoList
                                                                                      render () {
                                                                                                 Ĺtε
  <Fragment>
    {showMyComponent
                                                                                                 11>
      ? <MyComponent />
      : <OtherComponent />}
  </Fragment>
                                                                                    }
Short-circuit evaluation
  <Fragment>
    {showPopup && <Popup />}
  </Fragment>
```

# † New features

```
Returning multiple elements

You can return multiple elements as arrays or fragments.

Arrays

render() {

You can return multiple elements as arrays or fragments.

}

render() {

You can return just a string.

See: Fragments and strings
```

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```
Portals

Fragments

render () {

render () {

// Fragments don't require keys!

}

This renders this.props.children into any locat

See: Portals

See: Fragments and strings
```

# # Property validation

#### PropTypes Basic types import PropTypes from 'prop-types' MyComponent.propTypes = { email: PropTypes.string, seats: PropTypes.number, See: Typechecking with PropTypes callback: PropTypes.func, PropTypes.bool, isClosed: any: PropTypes.any any } Basic string Enumerables (oneOf)

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```
7/26/2021
     number
                                                                MyCo.propTypes = {
                                                                  direction: PropTypes.oneOf([
     func
                                                                     'left', 'right'
                                                                   ])
     bool
                                                                }
     Enum
                                                              Custom validation
     oneOf(any)
                                                                                               Enum types
     oneOfType(type array)
                                                                MyCo.propTypes = {
                                                                  customProp: (props, key, componentName)
     Array
                                                                     if (!/matchme/.test(props[key])) {
                                                                       return new Error('Validation failed
     array
                                                                     }
                                                                   }
     array0f(...)
                                                                }
     Object
     object
                                                                          Object with values of a certain type
     objectOf(...)
                                                                                         Instance of a class
     instanceOf(...)
     shape(...)
     Elements
     element
                                                                                             React element
                                                                                                DOM node
     node
     Required
     (\cdots).isRequired
                                                                                                  Required
```

# # Also see

```
React website (reactjs.org)
React cheatsheet (reactcheatsheet.com)
Awesome React (github.com)
React v0.14 cheatsheet Legacy version
```

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