

React Reusability Cheat Sheet

by hackingbeauty (hackingbeauty) via cheatography.com/37001/cs/11658/

class MyComponent extends Component { static propTypes = {} static defaultProps = {} constructor(props) { super(props); this.state = { // state keys go here } } render() { } }

Define a component this way when you need to maintain internal state.

function MyComponent (props) { return (<div></div>); } Define a component this way when you just need to render UI (no internal state required).

O Lifecycle Hooks	
constructor()	Called before component is mounted
render()	Never call setState() here
componentWillMount()	Before rendering (no DOM yet)
componentDidMount()	After rendering

O Lifecycle Hooks (cont)	
componentWillUpdate()	Can't use setState() here
componentDidUpdate()	Operate on the DOM here
componentWillReceiveProps()	Use setState() here
shouldComponentUpdate()	Skips render() if returns false

Available PropTypes	
PropTypes.array	Check if prop is an array
PropTypes.string	Check if prop is a string
PropTypes.bool	Check if prop is a boolean (true/false)
PropTypes.number	Check if prop is a number
PropTypes.object	Check if prop is an object
PropTypes.node	Check if prop is anything that can be rendered in a React component
PropTypes.func	Check if prop is a function
PropTypes.element	Check if prop is a React element
<pre>PropTypes.oneOf(['M', 'F''])</pre>	Check if prop matches one of these values



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Synonymous with "Presentational Component".

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Available PropTypes (cont) PropTypes.oneOfType([Check if prop matches one of these types PropTypes.string, PropTypes.bool]) Check if prop is an instance of PropTypes.instanceOf(Class) a class Check if prop is an array of PropTypes.arrayOf(Array) some specific type Check if prop is an object with PropTypes.objectOf(PropTypes. property values of a specific number) Check if prop object has a PropTypes.shape({ particular "shape" potato: PropTypes.object, turkey: PropTypes.string Check if anything at all is PropTypes.any passed

☑ Reusability Checklist (ES6)

```
Step #1 -Define your component and import PropTypes
from the 'prop-types' package
 import React, { Component } from 'react';
 import PropTypes
                            from 'prop-types';
 class MyComponent extends Component {
   static propTypes
                        = {}
   static defaultProps = {}
   constructor(props) {
     super(props);
   render() {}
```

Step #2 - Define the props & what type they are

```
static propTypes: {
 className : PropTypes.string
 isClosed : PropTypes.bool
 email : PropTypes.string
}
```

Step #3 - Determine which props are required or optional

```
static propTypes: {
 className : PropTypes.string
 isClosed : PropTypes.bool
 email : PropTypes.string.isRequired
}
```

Step #4 - Define the defaults (if applicable)

```
static defaultProps: {
  className : "btn"
   isClosed : true
}
```



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Published 7th May, 2017. Last updated 7th May, 2017. Page 2 of 3.

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You can custom validate a prop

```
static propTypes: {
  email: ((props, propName) => {
    const regex = /^\w+@[a-zA-Z_]+?\.[a-zA-Z]{2,3}$/;
    if (!regex.test(props[propName])) {
      return new Error('Invalid email!');
    }
  })
}
```

Other APIs

Next Steps

Knowing how to create reusable components is step 1.

Then you need to learn how to architect professional apps using React & Redux.

Learn how at www.singlepageapplication.com



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