



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>

Coming Soon!



VUE ESSENTIALS CHEAT SHEET

EXPRESSIONS

```
<div id="app">
  <p>I have a {{ product }}</p>
  <p>{{ product + 's' }}</p>
  <p>{{ isWorking ? 'YES' : 'NO' }}</p>
  <p>{{ product.getSalePrice() }}</p>
</div>
```

DIRECTIVES

Element inserted/removed based on truthiness:

```
<p v-if="inStock">{{ product }}</p>
```

```
<p v-else-if="onSale">...</p>
<p v-else>...</p>
```

Toggles the display: none CSS property:

```
<p v-show="showProductDetails">...</p>
```

Two-way data binding:

```
<input v-model="firstName" >
```

v-model.lazy="..." Syncs input after change event

v-model.number="..." Always returns a number

v-model.trim="..." Strips whitespace

LIST RENDERING

```
<li v-for="item in items" :key="item.id">
  {{ item }}
</li>
```

key always recommended

To access the position in the array:

```
<li v-for="(item, index) in items">...
```

To iterate through objects:

```
<li v-for="(value, key) in object">...
```

Using v-for with a component:

```
<cart-product v-for="item in products"
  :product="item"
  :key="item.id" />
```

BINDING

```
<a v-bind:href="url">...</a>
```

shorthand

```
<a :href="url">...</a>
```

True or false will add or remove attribute:

```
<button :disabled="isButtonDisabled">...
```

If isActive is truthy, the class 'active' will appear:

```
<div :class="{ active: isActive }">...
```

Style color set to value of activeColor:

```
<div :style="{ color: activeColor }">
```

ACTIONS / EVENTS

Calls addToCart method on component:

```
<button v-on:click="addToCart">...
```

shorthand

```
<button @click="addToCart">...
```

Arguments can be passed:

```
<button @click="addToCart(product)">...
```

To prevent default behavior (e.g. page reload):

```
<form @submit.prevent="addProduct">...
```

Only trigger once:

```
<img @mouseover.once="showImage">...
```

.stop

Stop all event propagation

.self

Only trigger if event.target is element itself

Keyboard entry example:

```
<input @keyup.enter="submit">
```

Call onCopy when control-c is pressed:

```
<input @keyup.ctrl.c="onCopy">
```

Key modifiers:

| | | |
|---------|--------|--------|
| .tab | .up | .ctrl |
| .delete | .down | .alt |
| .esc | .left | .shift |
| .space | .right | .meta |

Mouse modifiers:

| | | |
|-------|--------|---------|
| .left | .right | .middle |
|-------|--------|---------|



Need help on your path to Vue Mastery?
Checkout our tutorials on **VueMastery.com**

VUE ESSENTIALS CHEAT SHEET

COMPONENT ANATOMY



```
Vue.component('my-component', {  
  components: { Components that can be used in the template  
    ProductComponent, ReviewComponent  
  },  
  props: { → The parameters the component accepts  
    message: String,  
    product: Object,  
    email: {  
      type: String,  
      required: true,  
      default: 'none'  
      validator: function (value) {  
        Should return true if value is valid  
      }  
    }  
  },  
  data: function() { Must be a function  
    return {  
      firstName: 'Vue',  
      lastName: 'Mastery'  
    }  
  },  
  computed: { Return cached values until  
    fullName: function () { dependencies change  
      return this.firstName + ' ' + this.lastName  
    }  
  },  
  watch: { Called when firstName changes value  
    firstName: function (value, oldValue) { ... }  
  },  
  methods: { ... },  
  template: '<span>{{ message }}</span>',  
}) Can also use backticks for multi-line
```

CUSTOM EVENTS

Use props (above) to pass data into child components, custom events to pass data to parent elements.

Set listener on component, within its parent:

```
<button-counter v-on:incrementBy="incWithVal">
```

Inside parent component:

```
methods: {  
  incWithVal: function (toAdd) { ... }  
}
```

Inside button-counter template:

```
this.$emit('incrementBy', 5) Custom event name  
Data sent up to parent
```

LIFECYCLE HOOKS



beforeCreate
created
beforeMount
mounted

beforeUpdate
updated
beforeDestroy
destroyed

USING A SINGLE SLOT

Component template:



```
<div>  
  <h2>I'm a title</h2>  
  <slot>  
    Only displayed if no slot content  
  </slot>  
</div>
```

Use of component with data for slot:

```
<my-component>  
  <p>This will go in the slot</p>  
</my-component>
```

MULTIPLE SLOTS

Component template:

```
<div class="container">  
  <header>  
    <slot name="header"></slot>  
  </header>  
  <main>  
    <slot>Default content</slot>  
  </main>  
  <footer>  
    <slot name="footer"></slot>  
  </footer>  
</div>
```

Use of component with data for slot:

```
<app-layout>  
  <template v-slot:header><h1>Title</h1></template>  
  <p>The main content.</p>  
  <template v-slot:footer><p>Footer</p></template>  
</app-layout>
```

LIBRARIES YOU SHOULD KNOW

Vue CLI

Command line interface for rapid Vue development.

Vue Router

Navigation for a Single-Page Application.

Vue DevTools

Browser extension for debugging Vue applications.

Nuxt.js

Library for server side rendering, code-splitting, hot-reloading, static generation and more.



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