

# 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:

<code>.tab</code>	<code>.up</code>	<code>.ctrl</code>
<code>.delete</code>	<code>.down</code>	<code>.alt</code>
<code>.esc</code>	<code>.left</code>	<code>.shift</code>
<code>.space</code>	<code>.right</code>	<code>.meta</code>

Mouse modifiers:

<code>.left</code>	<code>.right</code>	<code>.middle</code>
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## 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 dependencies change
    fullName: function () {
      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) Data sent up to parent
```

*Custom event name*

## 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>
  <h1 slot="header">Page title</h1>
  <p>the main content.</p>
  <p slot="footer">Contact info</p>
</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.

