

# Introduction - Vue.js Vue.js - The Progressive JavaScript Framework ▼ https://vuejs.org/v2/guide/

Documentation

## **Expressions**

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

## **Binding**

```
Shorthand syntax
```

```
<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 }">
```

#### **Directives**

Element inserted/removed based on truthiness

```
{{ product }}
...
...
```

Toggles the display: none CSS property

...

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
```

#### **Actions / Events**

Calls addToCart method on component

```
<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">
```

#### List rendering

```
The :key is always recommended
```

```
    {{ item }}
```

To access the position in the array

```
...
```

To iterate through objects

```
...
```

Using v-for with a component

## **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() {
// data 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: \{\ldots\},
template: '<span>{{ message }}</span>',
// Can also use backticks in template for multi-line
})
```

# Lifecycle hooks

```
beforeCreate // After the instance has been initialized #
created // After the instance is created #
```

```
beforeMount // Before the first render #
mounted // After the instance has been mounted #
beforeUpdate // When data changes, before the DOM is patched #
updated // After a data change #
beforeDestroy // Before the instance is destroyed #
destroyed // After a Vue instance has been destroyed #
```

#### **Custom events**

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', // Custom event name
   5 // Data sent up to parent
)
```

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

## Single file components

#### Single file

```
<template>
  {{ greeting }} World!
</template>

<script>
module.exports = {
  data: function () {
   return {
     greeting: 'Hello'
  }
```

```
}
}
</script>

<style scoped>
p {
  font-size: 2em;
  text-align: center;
}
</style>
```

#### Separation

```
<template>
  <div>This will be pre-compiled</div>
</template>
<script src="./my-component.js"></script>
<style src="./my-component.css"></style>
```

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

# Multiple slots

#### Component template

```
<div class="container">
  <header>
    <slot name="header"></slot>
  </header>
```

# Use of component with data for slot

```
<app-layout>
<h1 slot="header">Page title</h1>
the main content.
Contact info
</app-layout>
```