

Vue Methods

A Vue method is a **function associated** with the **Vue instance**.

Methods are defined inside the **methods property**:

```
new Vue({  
  
  methods: {  
  
    handleClick: function() {  
  
      alert('test')  
  
    }  
  
  }  
  
})
```

Methods are especially useful when you need to perform an action and you attach a **v-on** directive on an element to handle events. Like this one, which calls `handleClick` when the element is clicked:

```
<template>  
  
  <a @click="handleClick">Click me!</a>  
  
</template>
```

Pass parameters to Vue.js methods

Methods can accept parameters.

In this case, you just pass the parameter in the template:

```
<template>
```

```
<a @click="handleClick('something')">Click me!</a>
```

```
</template>
```

```
new Vue({  
  methods: {  
    handleClick: function(text) {  
      alert(text)  
    }  
  }  
})
```

How to access data from a method

You can access any of the **data properties of the Vue component** by using **this.propertyName**:

```
<template>
```

```
<a @click="handleClick()">Click me!</a>
```

```
</template>
```

```
<script>  
export default {  
  data() {  
    return {
```

```
    name: 'Flavio'
  },
  methods: {
    handleClick: function() {
      console.log(this.name)
    }
  }
}
</script>
```

We don't have to use `this.data.name`, just `this.name`. Vue does provide a transparent binding for us. Using `this.data.name` will raise an error.

Vue Events

v-on allows you to listen to DOM events, and trigger a method when the event happens. Here we listen for a click event:

```
<template>

<a v-on:click="handleClick">Click me!</a>

</template>
<script>
export default {
  methods: {
    handleClick: function() {
      alert('test')
    }
  }
}
```

```
}  
}  
}  
</script>
```

You can **pass parameters** to any event:

```
<template>
```

```
<a v-on:click="handleClick('test')">Click me!</a>
```

```
</template>  
<script>  
export default {  
  methods: {  
    handleClick: function(value) {  
      alert(value)  
    }  
  }  
}  
</script>
```

Small bits of JavaScript (a **single expression**) can be put directly into the template:

```
<template>
```

```
<a v-on:click="counter = counter + 1">{{counter}}</a>
```

```
</template>  
<script>  
export default {  
  data: function() {  
    return {
```

```
    counter: 0
  }
}
}
</script>
```

click is just one kind of event. A common event is **submit**, which you can bind using **v-on:submit**.

v-on is so common that there is a **shorthand syntax** for it, **@**:

Event directive modifiers

Vue offers some **optional event modifiers** you can use in association with v-on, which **automatically make the event do something without you explicitly coding it in your event handler**.

One good example is **.prevent**, which **automatically calls preventDefault()** on the event.

In this case, the form does not cause the **page to be reloaded**, which is the default behavior:

```
<form v-on:submit.prevent="formSubmitted"></form>
```

Other modifiers include **.stop**, **.capture**, **.self**, **.once**, **.passive** and they are [described in detail in the official docs](#).

```
<!-- the click event's propagation will be stopped -->
<a v-on:click.stop="doThis"></a>
```

```
<!-- the submit event will no longer reload the page -->
```

```
<form v-on:submit.prevent="onSubmit"></form>
```

<!-- modifiers can be chained -->

```
<a v-on:click.stop.prevent="doThat"></a>
```

<!-- just the modifier -->

```
<form v-on:submit.prevent></form>
```

<!-- the click event will be triggered at most once -->

```
<a v-on:click.once="doThis"></a>
```

Key Modifiers

When listening for keyboard events, we often need to check for specific keys. Vue allows adding key modifiers for **v-on** when listening for key events:

<!-- only call `vm.submit()` when the `key` is `Enter` -->

```
<input v-on:keyup.enter="submit">
```

You can directly use any valid key names exposed via KeyboardEvent.key as modifiers by converting them to kebab-case.

```
<input v-on:keyup.page-down="onPageDown">
```

In the above example, the handler will only be called if **\$event.key** is equal to **'PageDown'**.

Key Codes

The use of `keyCode` events [is deprecated](#) and may not be supported in new browsers.

Using `keyCode` attributes is also permitted:

```
<input v-on:keyup.13="submit">
```

Vue provides aliases for the most commonly used key codes when necessary for legacy browser support:

- `.enter`
- `.tab`
- `.delete` (captures both “Delete” and “Backspace” keys)
- `.esc`
- `.space`
- `.up`
- `.down`
- `.left`
- `.right`

A few keys (`.esc` and all arrow keys) have inconsistent `key` values in IE9, so these built-in aliases should be preferred if you need to support IE9.

You can also [define custom key modifier aliases](#) via the global `config.keyCodes` object:

```
// enable `v-on:keyup.f1`  
Vue.config.keyCodes.f1 = 112
```

Vue Filters

Filters are a functionality provided by Vue components that let you **apply formatting and transformations** to any part of your template dynamic data.

They don't change a component's data or anything, but they only affect the output.

Say you are printing a name:

```
<template>
```

```
<p>Hi {{ name }}!</p>
```

```
</template>
```

```
<script>
```

```
export default {
```

```
  data() {
```

```
    return {
```

```
      name: 'Flavio'
```

```
    }
```

```
  }
```

```
}
```

```
</script>
```

What if you want to check that name is actually containing a value, and if not print 'there', so that our template will print "Hi there!"?

Enter filters:


```
<template>
```

```
<p>Hi {{ name | fallback }}!</p>
```

```
</template>
```

```
<script>
```

```
export default {
```

```
  data() {
```

```
    return {
```

```
      name: 'Flavio'
```

```
    }
```

```
  },
```

```
  filters: {
```

```
    fallback: function(name) {
```

```
      return name ? name : 'there'
```

```
    }
```

```
  }
```

```
}
```

```
</script>
```

Notice the syntax to apply a filter, which is | **filterName**.

A single filter is a function that accepts a value and returns another value.

The returned value is the one that's actually printed in the Vue.js template.

Filters can be chained, by repeating the pipe syntax:

```
{{ name | fallback | capitalize }}
```

This first applies the fallback filter, then the capitalize filter

Advanced filters can also **accept parameters**, using the normal function parameters syntax:

```
<template>
```

```
<p>Hello {{ name | prepend('Dr.') }}</p>
```

```
</template>
```

```
<script>
```

```
export default {
```

```
  data() {
```

```
    return {
```

```
      name: 'House'
```

```
    }
```

```
  },
```

```
  filters: {
```

```
    Prepend: function (name, prefix) {
```

```
      return `${prefix} ${name}`
```

```
    }
```

```
  }
```

```
}
```

```
</script>
```

If you pass parameters to a filter, the first one passed to the filter function is always the item in the template interpolation (name in this case), followed by the explicit parameters you passed.

Vue Life-Cycle

All lifecycle hooks automatically have their this context bound to the instance, so that you can access data, computed properties, and methods.

