# VUE.JS

> **An incrementally adoptable ecosystem that scales between a library and a full-featured framework.**

# USING VUE.JS

CDN:

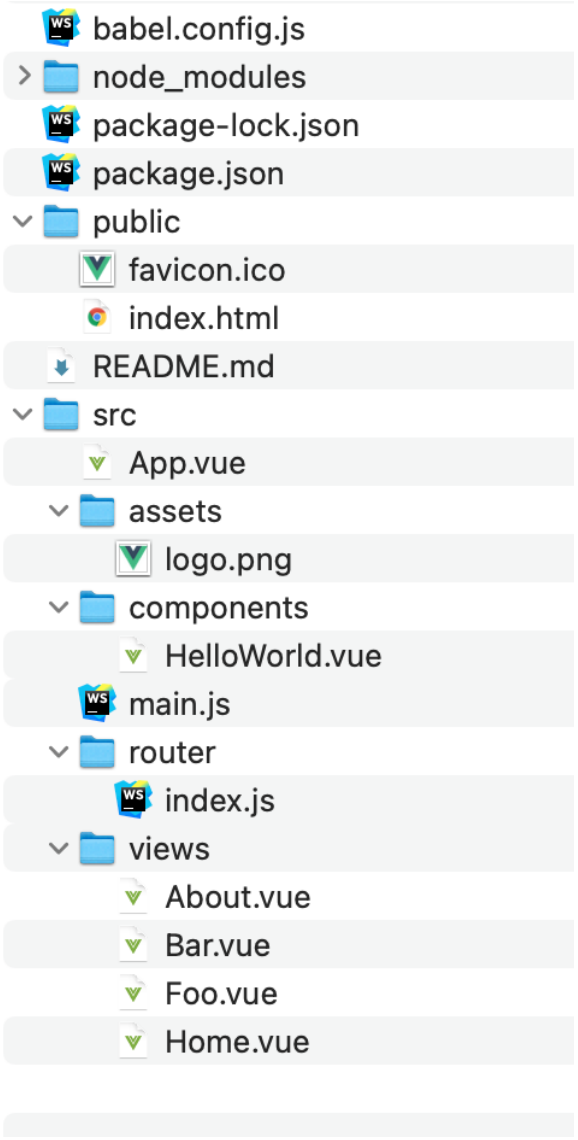
```
<head>
<script

    src=https://cdn.jsdelivr.net/npm/vue/dist/vue.js >

</script>
</head>
```

# USING VUE.JS #2

FRAMEWORK (CLI):

```
$ vue create vue-app
```

# USING VUE.JS #3



# TEMPLATE SYNTAX

https://jsfiddle.net/

```
<div id="app">
  {{ message }}
</div>

<script>
var app = new Vue({
  el: '#app',
  data: {
    message: 'Hello Vue!'
  }
})
</script>
```

# BIND ELEMENT ATTRIBUTES

```
<div id="app-2">
  <span v-bind:title="message">
    Hover your mouse over me!
  </span>
</div>

<script>
var app2 = new Vue({
  el: '#app-2',
  data: {
    message: 'You loaded this page on ' + new
Date().toLocaleString()
  }
})
</script>
```

# CONDITIONALS

```
<div id="app-3">
  <span v-if="seen">Now you see me</span>
</div>

<script>

var app3 = new Vue({
  el: '#app-3',
  data: {
    seen: true
  }
})

</script>
```

# Loops

```
<div id="app-4">
  <ol>
    <li v-for="todo in todos">
      {{ todo.text }}
    </li>
  </ol>
</div>

var app4 = new Vue({
  el: '#app-4',
  data: {
    todos: [
      { text: 'Learn JavaScript' },
      { text: 'Learn Vue' },
      { text: 'Build something awesome' }
    ]
  }
})
```

# User Input

```
<div id="app-5">
  <p>{{ message }}</p>
  <button v-on:click="reverseMessage">Reverse
Message</button>
</div>

var app5 = new Vue({
  el: '#app-5',
  data: {
    message: 'Hello Vue.js!'
  },
  methods: {
    reverseMessage: function () {
      this.message =
this.message.split('').reverse().join('')
    }
  }
})
```

# V-MODEL DIRECTIVE

```
<div id="app-6">
  <p>{{ message }}</p>
  <input v-model="message">
</div>

<script>
var app6 = new Vue({
  el: '#app-6',
  data: {
    message: 'Hello Vue!'
  }
})
</script>
```

# INSTANCE LIFECYCLE HOOKS

- **created**
- mounted
- updated
- destroyed

```
new Vue({
  data: {
    a: 1
  },
  created: function () {
    // `this` points to the vm instance
    console.log('a is: ' + this.a)
  }
})
```

# DIRECTIVES

- `v-once` one-time interpolation
- `v-html` output real HTML
- `v-bind` `<a v-bind:href="url"> ... </a>`
- `v-for`
- `v-on` `<a v-on:click="doSomething"> ... </a>`

## Conditionals

- `v-if`
- `v-else`
- `v-else-if`
- `v-show`

# EVENTS

```
<div id="example-3">
  <button v-on:click="say('hi')">Say hi</button>
  <button v-on:click="say('what')">Say
what</button>
</div>

new Vue({
  el: '#example-3',
  methods: {
    say: function (message) {
      alert(message)
    }
  }
})
```

# EXAMPLE

```
<div id="app-2" >
    <span v-bind:style="message"  v-on:click="hideMessage">
        This is some text!
    </span>
    <br>
    <button v-on:click="hideMessage">hide Message</button>
</div>
```

```
var app2 = new Vue({
    el: '#app-2',
    data: {
    message: 'display:block;'
    },
    methods: {
 hideMessage: function () {this.message = 'display:
none;'}}
})
```

# SHORTHANDS

## `v-bind` Shorthand

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

<!-- shorthand -->
<a :href="url"> ... </a>
```

## `v-on` Shorthand

```
<!-- full syntax -->
<a v-on:click="doSomething"> ... </a>

<!-- shorthand -->
<a @click="doSomething"> ... </a>
```

# COMPUTED PROPERTIES

```
<div id="example">
  <p>Original message: "{{ message }}"</p>
  <p>Computed reversed message: "{{ reversedMessage
}}"</p>
</div>

var vm = new Vue({
  el: '#example',
  data: {
    message: 'Hello'
  },
  computed: {
    // a computed getter
    reversedMessage: function () {
      return this.message.split('').reverse().join('')
    }
  }
})
```

# ..AND METHODS

```
<div id="example">
  <p>Original message: "{{ message }}"</p>
  <p>Computed reversed message: "{{ reversedMessage()
}}"</p>
</div>

var vm = new Vue({
  el: '#example',
  data: {
    message: 'Hello'
  },
  methods: {
    reversedMessage: function () {
      return this.message.split('').reverse().join('')
    }
  }})
```

# WATCHERS #1

```
<div id="watch-example">
  <p>
    Ask a yes/no question:
    <input v-model="question">
  </p>
  <p>{{ answer }}</p>
</div>
```

```
<script src="https://cdn.jsdelivr.net/npm/axios@0.12.0/dist/axios.min.js">
</script>
<script src="https://cdn.jsdelivr.net/npm/lodash@4.13.1/lodash.min.js">
</script>
```

# WATCHERS #2

```
<script>
var watchExampleVM = new Vue({
  el: '#watch-example',
  data: {
    question: '',
    answer: 'I cannot give you an answer until you ask a
question!'
  },
  watch: {
    // whenever question changes, this function will run
    question: function (newQuestion, oldQuestion) {
      this.answer = 'Waiting for you to stop typing...'
```

# WATCHERS #3

```
    this.debouncedGetAnswer()
    }
  },
  created: function () {

    this.debouncedGetAnswer = _.debounce(this.getAnswer, 500)
  },
  methods: {
    getAnswer: function () {
      if (this.question.indexOf('?') === -1) {
        this.answer = 'Questions usually contain a question mark.
;-)'
        return}
```

# WATCHERS #4

```
      this.answer = 'Thinking...'
      var vm = this
      axios.get('https://yesno.wtf/api')
        .then(function (response) {
          vm.answer = _.capitalize(response.data.answer)
        })
        .catch(function (error) {
          vm.answer = 'Error! Could not reach the API. ' + error
        })
    }
  }
})
</script>
```

# AJAX

```
<!-- gives you the freedom to use what you're familiar with.
-->
<script
src="https://cdn.jsdelivr.net/npm/axios@0.12.0/dist/axios.min.js"
>
```

```
      var vm = this
      axios.get('https://yesno.wtf/api')
        .then(function (response) {
          vm.answer = _.capitalize(response.data.answer)
        })
        .catch(function (error) {
          vm.answer = 'Error! Could not reach the API. ' + error
        })
```

# Class Attribute Bindings

Object Syntax

```
<div v-bind:class="classObject"></div>
data: {
  classObject: {
    active: true,
    'text-danger': true
  }
}
```

Array Syntax

```
<div v-bind:class="[activeClass, errorClass]"></div>
data: {
  activeClass: 'active',
  errorClass: 'text-danger'
}
```

Output

```
<div class="active text-danger"></div>
```

# Style Attribute Bindings

## Object Syntax

```
<div v-bind:style="styleObject"></div>


data: {
  styleObject: {
    color: 'red',
    fontSize: '13px'
  }
}
```

# FORM INPUT BINDINGS #1 (TEXT, PASSWORD, EMAIL, ETC)

```
<div id='example-1'>

<input type=”text” v-model="message1" placeholder="edit me">


<textarea v-model="message2" placeholder="add multiple lines"></textarea>

</div>
```

```
new Vue({
  el: '#example-1',
  data: {
    message1:  '',
    message2:  '',
  }
})
```

# FORM INPUT BINDINGS #2 (RADIO)

```
<div id='example-2'>

<input type="radio" id="one" value="One" v-model="picked">
<label for="one">One</label>
<br>
<input type="radio" id="two" value="Two" v-model="picked">
<label for="two">Two</label>
<br>
<span>Picked: {{ picked }}</span>

</div>
```

```
new Vue({
  el: '#example-2',
  data: {
    picked:  '',

  }
})
```

# FORM INPUT BINDINGS #3 (CHECKBOX)

```
<div id='example-3'>
  <input type="checkbox" id="jack" value="Jack" v-model="checkedNames">
  <label for="jack">Jack</label>
  <input type="checkbox" id="john" value="John" v-model="checkedNames">
  <label for="john">John</label>
  <input type="checkbox" id="mike" value="Mike" v-model="checkedNames">
  <label for="mike">Mike</label>

</div>

new Vue({
  el: '#example-3',
  data: {
    checkedNames: []
  }
})
```

# FORM INPUT BINDINGS #4 (SELECT)

```
<div id='example-4'>

<select v-model="selected">
  <option v-for="option in options" v-bind:value="option.value">
    {{ option.text }}
  </option>
</select>

<span>Selected: {{ selected }}</span>

</div>
```

```
new Vue({
  el: 'example-4',
  data: {
    selected: '',
    options: [
      { text: 'One', value: 'A' },
      { text: 'Two', value: 'B' },
      { text: 'Three', value: 'C' }
    ]
  }
})
```

# FORM ...

```
<form @submit.prevent="onSubmit" class="mbr-form" >
...
</form>
```

```
<form @submit="onSubmit(event)" class="mbr-form" >

</form>

<script>
   methods: {
         onSubmit(e) {
             e.preventDefault()
           ...
       },
   }

</script>
```

# COMPONENTS #1

```
<div id="app-7">
  <ol>

    <todo-item
      v-for="item in groceryList"
      v-bind:todo="item"
      v-bind:key="item.id"
    >
    </todo-item>

</ol>
</div>
```

# COMPONENTS #2

```
Vue.component('todo-item', {
  props: ['todo'],
  template: '<li>{{ todo.text }}</li>'
})

var app7 = new Vue({
  el: '#app-7',
  data: {
    groceryList: [
      { id: 0, text: 'Vegetables' },
      { id: 1, text: 'Cheese' },
      { id: 2, text: 'Whatever else humans are
supposed to eat' }
    ]
  }
})
```

# COMPONENTS #3

```
<div id="demo">
  <button-counter start="0"></button-counter>
</div>

// Define a new component called button-counter
Vue.component('button-counter', {
  props: ['start'],
  data: function () {
    return {
      count: this.start
    }
  },
  template: '<button v-on:click="count++">You clicked
me {{ count }} times.</button>'
})

new Vue({ el: '#demo' })
```