7 secret patterns Vue consultants don't want you to know!

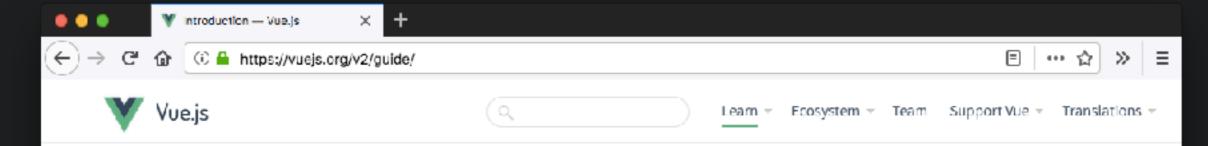
By 1 member of the Vue core team you'll never believe is shorter in real life!

Me



Me





Guide 2x

Essentials

Installation

Introduction

What is Vue.js?

Getting Started

Declarative Rendering

Conditionals and Loops

Handling User Input

Composing with Components

Relation to Custom Flements.

Ready for More?

The Vue Instance

Template Syntax

Computed Properties and Watchers

Class and Style Bindings

Conditional Rendering

List Rendering

Event Handling

Form Input Bindings

Components

Transitions & Animation

Enter/Leave & List Transitions

Introduction

What is Vue.js?

Vue (pronounced /vju:/, like view) is a progressive framework for building user interfaces. Unlike other monolithic frameworks, Vue is designed from the ground up to be incrementally adoptable. The core library is focused on the view layer only, and is easy to pick up and integrate with other libraries or existing projects. On the other hand, Vue is also perfectly capable of powering sophisticated Single-Page Applications when used in combination with modern tooling and supporting libraries.

If you'd like to learn more about Vue before diving in, we created a video walking through the core principles and a sample project.

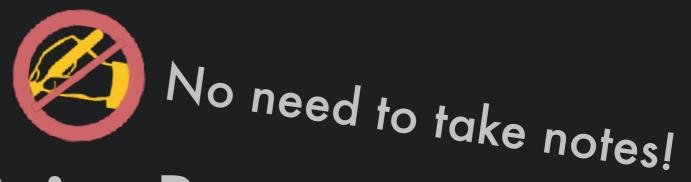
If you are an experienced frontend developer and want to know how Vue compares to other libraries/frameworks, check out the Comparison with Other Frameworks.

Getting Started



The official guide assumes intermediate level knowledge of HTML, CS5, and JavaScript. If you are totally new to frontend development, it might not be the best idea to jump right into a framework as your first step - grasp the basics then come back! Prior experience with other frameworks helps, but is not required.

Secrets



Productivity Boosts

Radical Tweaks

Unlocked Possibilities

Productivity Boost #1

Smarter Watchers

```
created() {
   this.fetchUserList()
},
watch: {
   searchText() {
     this.fetchUserList()
   }
}
```

Fetch on created, then watch

Smarter Watchers

```
created() {
   this.fetchUserList()
},
watch: {
   searchText: 'fetchUserList'
}
```

Watchers accept method names

Smarter Watchers

```
watch: {
    searchText: {
        handler: 'fetchUserList',
        immediate: true
    }
}
```

And can call themselves on created

Productivity Boost #2

```
import BaseButton from './base-button'
import BaseIcon from './base-icon'
import BaseInput from './base-input'

export default {
   components: {
     BaseButton,
     BaseIcon,
     BaseInput
   }
}
```

Frequently imported components

So much JS to support such a small template!

```
import Vue from 'vue'
import upperFirst from 'lodash/upperFirst'
import camelCase from 'lodash/camelCase'
// Require in a base component context
const requireComponent = require.context(
  '.', false, /base-[\w-]+\.vue$/
requireComponent.keys().forEach(fileName => {
 // Get component config
 const componentConfig = requireComponent(fileName)
 // Get PascalCase name of component
 const componentName = upperFirst(
    camelCase(fileName.replace(/\\.\//, '').replace(/\.\w+$/, ''))
 // Register component globally
 Vue.component(componentName, componentConfig.default || componentConfig)
```

```
import BaseButton from './base-button'
import BaseIcon from './base-icon'
import BaseInput from './base-input'
export default {
 components: {
   BaseButton,
   BaseIcon,
   BaseInput
                              <BaseInput
                                v-model="searchText"
                                @keydown.enter="search"
                              />
                              <BaseButton @click="search">
                                <BaseIcon name="search"/>
                              </BaseButton>
```

```
<BaseInput
  v-model="searchText"
  @keydown.enter="search"
/>
<BaseButton @click="search">
  <BaseIcon name="search"/>
</BaseButton>
```

Productivity Boost #3

```
import auth from './modules/auth'
import posts from './modules/posts'
import comments from './modules/comments'
// ...
export default new Vuex.Store({
 modules: {
    auth,
    posts,
    comments,
   // ...
                        Tedious!
```

```
import camelCase from 'lodash/camelCase'
const requireModule = require.context('.', false, /\.js$/)
const modules = {}
requireModule.keys().forEach(fileName => {
  // Don't register this file as a Vuex module
  if (fileName === './index.js') return
  const moduleName = camelCase(
    fileName.replace(/(\.\/|\.js)/g, '')
  modules[moduleName] = requireModule(fileName)
})
export default modules
```

```
import camelCase from 'lodash/camelCase'
const requireModule = require.context('.', false, /\.js$/)
const modules = {}
requireModule.keys().forEach(fileName => {
 // Don't register this file as a Vuex module
 if (fileName === './index.js') return
  const moduleName = camelCase(
   fileName.replace(/(\.\/|\.js)/g, '')
 modules[moduleName] = {
   namespaced: true,
    ...requireModule(fileName),
```

export default modules

```
import auth from './modules/auth'
import posts from './modules/posts'
import comments from './modules/comments'
// ...
export default new Vuex.Store({
 modules: {
    auth,
    posts,
                       Say goodbye!
    comments,
   // ...
```

```
import modules from './modules'
export default new Vuex.Store({
   modules
})
```

Secrets



M Productivity Boosts

Radical Tweaks

Unlocked Possibilities

Radical Tweak #1

Cleaner Views

```
data() {
  return {
    loading: false,
    error: null,
    post: null
},
watch: {
  '$route': {
    handler: 'resetData',
    immediate: true
},
methods: {
  resetData() {
    this.loading = false
    this.error = null
    this.post = null
    this.getPost(this.$route.params.id)
 },
  getPost(postId) {
    // ...
```

So much setup!

Cleaner Views

```
data() {
   return {
     loading: false,
     error: null,
     post: null
   }
},
created () {
   this.getPost(this.$route.params.id)
},
methods: {
   getPost(postId) {
     // ...
   }
}
```

Radical Tweak #2

```
<template>
  <label>
    {{ label }}
    <input
        :value="value"
        @input="$emit('input', $event.target.value)"
        >
      </label>
</template>
```

<BaseInput @focus.native="doSomething">



<BaseInput @focus.native="doSomething">

<BaseInput @focus.native="doSomething">

```
<template>
  <label>
      {{ label }}
      <input
            :value="value"
            v-on="listeners"
            >
            </label>
</template>
```

```
computed: {
  listeners() {
    return {
        ...this.$listeners,
        input: event =>
        this.$emit('input', event.target.value)
    }
  }
}
```

<BaseInput @focus="doSomething">

```
<template>
  <label>
      {{ label }}
      <input
            :value="value"
            v-on="listeners"
            >
            </label>
</template>
```

```
computed: {
  listeners() {
    return {
        ...this.$listeners,
        input: event =>
        this.$emit('input', event.target.value)
    }
  }
}
```

<BaseInput @focus="doSomething">

```
<template>
  <label>
    {{ label }}
    <input
        :value="value"
        v-on="listeners"
        >
      </label>
</template>
```

```
<BaseInput
  placeholder="What's your name?"
  @focus="doSomething"
/>
```



```
<template>
  <label>
  <label }}
  <input
    v-bind=$attrs"
    :value="value"
    v-on="listeners"
    >
  </label>
</template>
```

inheritAttrs: false



Fully transparent wrappers!

```
<BaseInput
  placeholder="What's your name?"
  @focus="doSomething"
/>
```



Secrets

- Productivity Boosts
 - Radical Tweaks

Unlocked Possibilities

Unlocked Possibility #1

Single-Root Components

```
<template>
 <l
    <NavBarRoutes :routes="persistentNavRoutes"/>
    <NavBarRoutes
     v-if="loggedIn"
      :routes="loggedInNavRoutes"
    />
    <NavBarRoutes
     v-else
      :routes="loggedOutNavRoutes"
    />
  </template>
```

Single-Root Components

```
<template>
 <l
   <NavBarRoutes :routes="persistentNavRoutes"/>
   <NavBarRoutes
     v-if="loggedIn"
                                     <template>
     :routes="loggedInNavRoutes"
                                        <li
   <NavBarRoutes
                                          v-for="route in routes"
     v-else
                                          :key="route.name"
     :routes="loggedOutNavRoutes"
                                       >
 <router-link :to="route">
</template>
                                            {{ route.title }}
                                          </router-link>
                                        </template>
```

Single-Root Components

```
<template>
 <l
   <NavBarRoutes :routes="persistentNavRoutes"/>
   <NavBarRoutes
    v-if="loggedIn"
    :routes="loggedInNavRoutes"
   <NavBarRoutes
    v-else
                                functional: true,
    :routes="loggedOutNavRoutes"
                                render(h, { props }) {
 return props.routes.map(route =>
</template>
                                    <router-link to={route}>
                                        {route.title}
                                      </router-link>
                                    Multi-root components!
```

Unlocked Possibility #2

North Atlantic Ocean Western Sahara

Norway Denmark United Kingdom Germany France Switzerland Ita Spain Portugal Tunisia Могоссо Algeria Mauritania Mali C Mappox C OpenStreetMap Improve this map

Cuba

WESTFIELD

nabpox

NSING

```
// Init
const map = new mapboxgl.Map(/* ... */)
map.on('load', () => {
 // Data
  map.addSource(/* ... */)
  // Layers
  map.addLayer(/* ... */)
  map.addLayer(/* ... */)
  // Hover effects
  map.on('mousemove', /* ... */)
  map.on('mouseleave', /* ... */)
})
```

```
// Init
const map = new mapboxgl.Map(/* ... */)
map.on('load', () => {
    // Data
    map.addSource(/* ... */)

    // Layers
    map.addLayer(/* ... */)
    map.addLayer(/* ... */)

    // Hover effects
    map.on('mousemove', /* ... */)
    map.on('mouseleave', /* ... */)
})
```

```
created() {
  const { map } = this.$parent
 map.on('load', () => {
    map.addSource(/* ... */)
    map.addLayer(/* ... */)
beforeDestroy() {
  const { map } = this.$parent
  map.on('load', () => {
    map.removeSource(/* ... */)
    map.removeLayer(/* ... */)
render(h) {
  return null
```

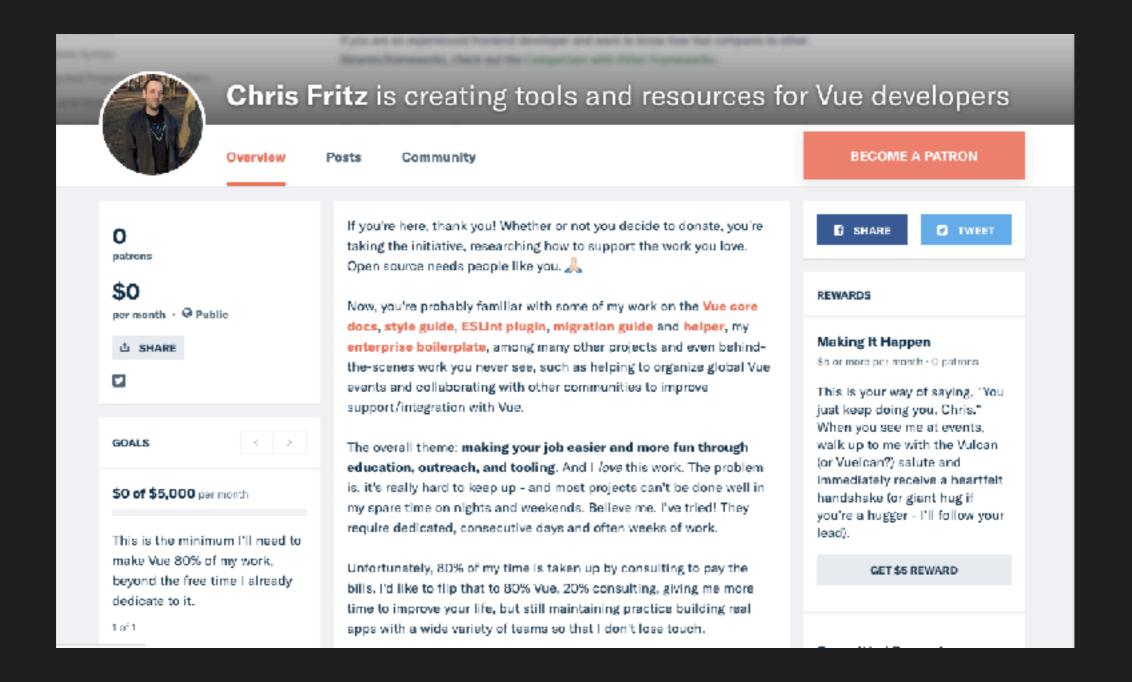
```
<template slot-scope="city">
   <h3>{{ city.name }}</h3>
   </template>
```

```
<template slot-scope="city">
  <h3>{{ city.name }}</h3>
</template>
                       createPopup(marker) {
                         this.removeOpenPopups()
                         const popupContentVNodes =
                           this.$scopedSlots.default(marker.properties)
                         const popupHtml = new Vue({
                           render: h => h('div', popupContentVNodes)
                         }).$mount().$el.innerHTML
                         this.lastAddedPopup = new mapboxgl.Popup({
                           offset: this.markerOffset
                           .setLngLat(marker.geometry.coordinates)
                           .setHTML(popupHtml)
                           .addTo(this.map)
```

Even more patterns!

github.com/chrisvfritz/vue-enterprise-boilerplate

Announcement!



patreon.com/chrisvuefritz

Questions?

github.com/chrisvfritz/7-secret-patterns

@chrisvfritz