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

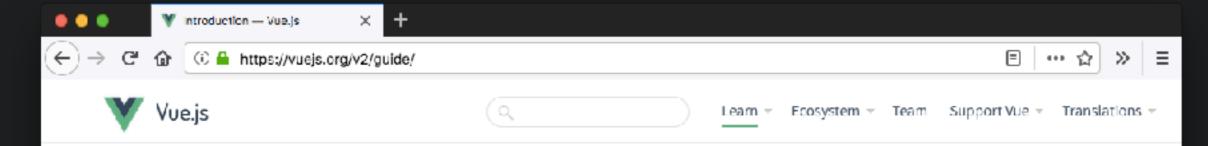
By 1 member of the Vue core team you'll never believe is shorter in real life!

Me



Me





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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.

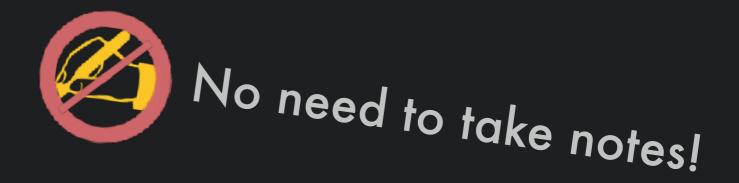
If you are an experienced frontend developer and want to know how Vue compares to other libraries/frameworks, check out the Comparison with Other Frameworks.

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(
  './components', 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

Lazy-Loaded Routes

```
path: '/admin',
name: 'admin-dashboard',
component: require('@views/admin').default
}
```

Lazy-Loaded Routes

```
{
  path: '/admin',
  name: 'admin-dashboard',
  component: () => import('@views/admin')
}
```

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

(Emitted value instead of an instance of Error) Error compiling template:

```
<div></div>
<div></div>
```

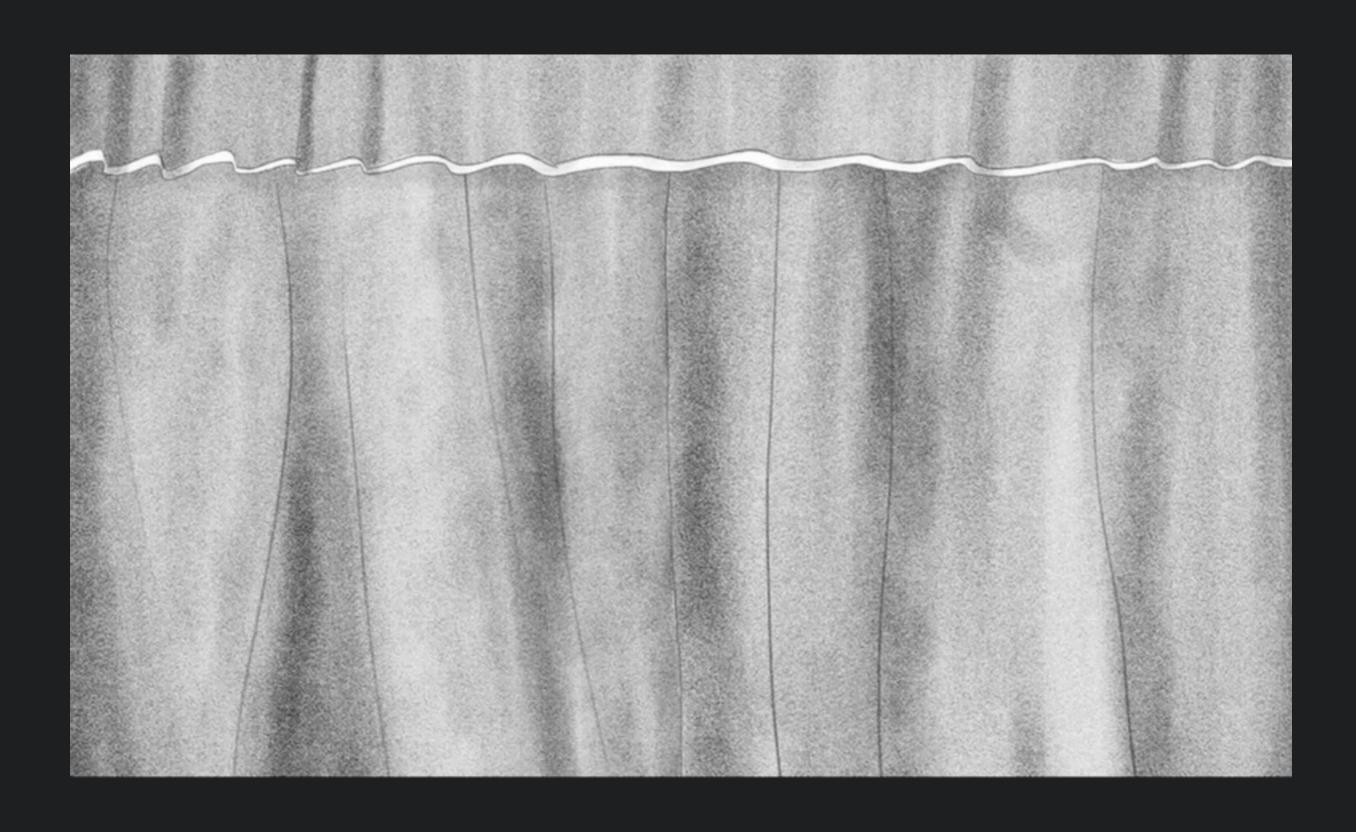
- Component template should contain <u>exactly one root element</u>. If you are using v-if on multiple elements, use v-else-if to chain them instead.

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

```
<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>
```

```
<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



TheaterCurtain.vue

```
<template>
  <transition>
    <div
        class="curtain"
        :class="direction"
        />
        </transition>
  </template>
```

```
<TheaterCurtain v-if="showfartain" direction="center"/>
<TheaterCurtain v-if="showfartain" direction="left"/>
<TheaterCurtain v-if="showfartain" direction="right"/>
```

TheaterCurtain.vue

```
<template>
  <transition>
    <div
        class="curtain"
        :class="direction"
        />
        </transition>
  </template>
```

<TheaterCurtains :show="showCurtains"/>

TheaterCurtain.vue

```
<template>
  <transition>
    <div
        class="curtain"
        :class="direction"
        />
        </transition>
  </template>
```

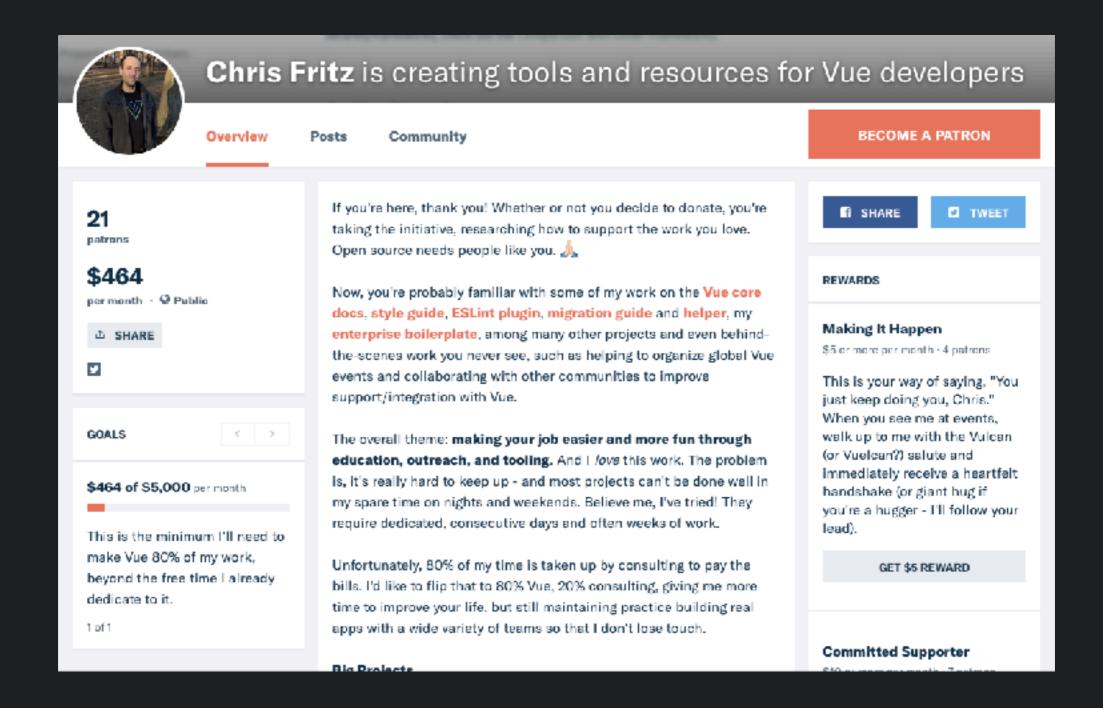
TheaterCurtains.vue

<TheaterCurtains :show="showCurtains"/>

Can't get enough?

github.com/chrisvfritz/vue-enterprise-boilerplate

Docs roadmap



patreon.com/chrisvuefritz

Components Rewrite!

Big Projects

There are a lot of little things I'd like to do with more Vue time, but here are some of the bigger projects that will only ever happen when I can spend more of my time on Vue:

- Reorganize the huge Components page into several pages, making it easier to grasp the Essentials, while providing improved examples and deeper dives into each major feature. PUBLISHED 2018-03-26
- Provide deeper dives into topics such as component organization, advanced composition, and some powerful component patterns.
- Rewrite the Vuex docs/examples with the same love that I've given the core docs.
- Rewrite the Vue Router docs/examples with the same love that I've given the core docs.
- Research and possibly build a new solution for

Thanks to Cameron Adams the Vuesionary!!

github.com/chrisvfritz/7-secret-patterns

@chrisvfritz