

VUE.JS FOR REGULAR PEOPLE

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WHO AM I?

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WHY VUE?



It is.

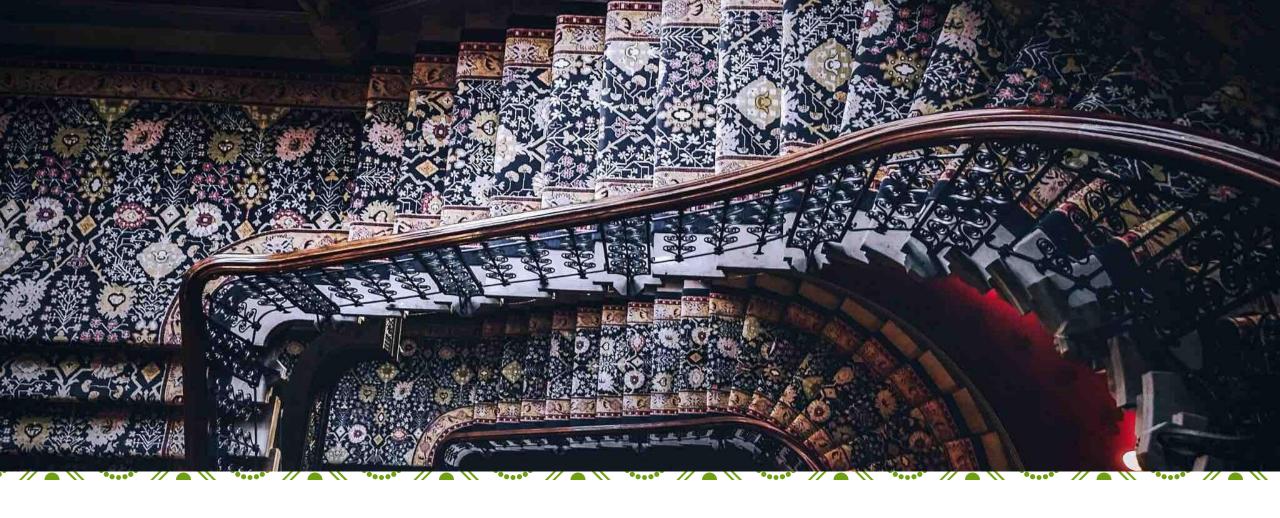
Oh hell yeah it is.

Spoiler – it's Yue



SIMPLE





SCALABLE

QUICK VUE FACTS

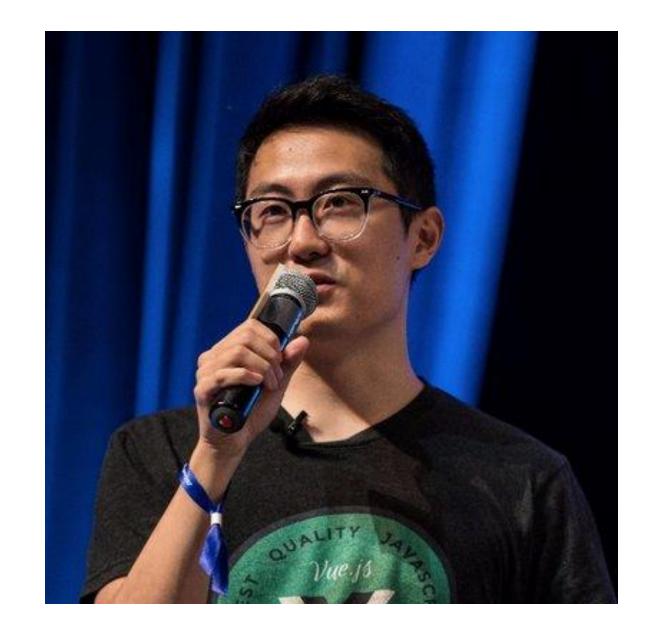
Created by Evan You (@youyuxi)

Released in February of 2014

Currently is version 2.6.8

Main site: vuejs.org

GitHub: https://github.com/vuejs



WHAT DOES VUE DO?

Two-way binding between your DOM and JavaScript

Template Language (aka Declarative Rendering)

And I know I said this - but it does more. A lot more.

INSTALLATION

npm install

cli install

Download from site

Copy and paste a script tag FTW!!!!!1!



<SCRIPT> STYLE

```
<script src="https://unpkg.com/vue"></script>
```

WRITE SOME CODE!

Identify where you're going to render stuff

Setup some data

Render that data

Add events (ie on this do that) and other fancy stuff

Willy Nilly DOM Manipulation \$('#somediv').html('woot'); \$('#someotherdiv').val(2);

\$('#yetanotherdiv').html('This is awesome');



Defining Vue's Place...



EXAMPLES

http://bit.ly/rayvuedemos

```
<!-- header stuff -->
<div id="app">
</div>
<!-- footer stuff -->
```

```
var app = new Vue({
 el: '#app',
  data:{
    name: "Ray",
    age: 44
```

SOME CODE...

```
<!-- header stuff -->
<div id="app">
My name is {{name}} and
I'm {{age}} years old.
</div>
<!-- footer stuff -->
```

```
var app = new Vue({
 el: '#app',
  data:{
    name: "Ray",
    age: 44
```

SOME MORE CODE...

```
<div id="app">
   My name is {{name}}.
   <span v-if="age > 40">
   I remember floppies.
   </span>
</div>
```

```
<div id="app">
  My name is {{name}}.
  <span v-if="age > 40">
  I remember floppies.
  </span><span v-else>
  What's a floppy?
  </span>
</div>
```

TEMPLATE DIRECTIVES - CONDITIONALS

```
<div id="app">
 My name is {{name}}. Here
 are things I like:
 <l
  {{thing}}
 </div>
```

```
var app = new Vue({
 el: '#app',
 data:{
   name:"Ray",
    things:[
   "cats",
    "star wars",
    "beer"
```

TEMPLATE DIRECTIVES - LOOPS

v-model links to data field
Works in all kinds of form fields

WORKING WITH FORM FIELDS

```
<div id="app">
    <input type="text" id="name" v-model="name"><br/>
    My name is {{name}}.
</div>
```

```
var app = new Vue({
 el:'#app',
 data:{
    count:0
  },
 methods:{
    doIt:function() {
      this.count++;
```

EVENTS

```
v-on:click="something"

Defined in methods block of Vue instance

Easy to do modifiers (v-on:submit.prevent)

@click="something"
```

```
<div id="app">
     <button v-on:click="doIt">Do It</button><br/>
     You did it {{count}} times.
</div>
```

ATTRIBUTE BINDING

```
v-bind:attribute="value"
 :attribute="value"
v-bind:style="{bgcolor:curColor, font-style:textStyle}"
v-bind:class="{highlighted:isActive, color:appStatus}"
<div id="app">
  <img v-bind:src="src">
</div>
```

COMPUTED PROPERTIES

Virtual properties

Property X is based on real data A and B

Defined in the computed part of the Vue instance

```
var app = new Vue({
  el: '#app',
  data:{
    cats:[
      {"name": "Alred", "gender": "Male"},
      {"name": "Barry", "gender": "Male"},
      {"name": "China", "gender": "Female"},
      {"name": "Dolores", "gender": "Female"},
      {"name": "Enya", "gender": "Female"},
      {"name": "Franke", "gender": "Male"},
      {"name": "Georgia", "gender": "Female"}
```

EXAMPLE (BEFORE)

```
var app = new Vue({
 el:'#app',
 data:{
   cats:[
     {"name": "Alred", "gender": "Male"},
     {"name": "Barry", "gender": "Male"},
     {"name": "China", "gender": "Female"},
     {"name": "Dolores", "gender": "Female"},
     {"name": "Enya", "gender": "Female"},
     {"name": "Franke", "gender": "Male"},
     {"name": "Georgia", "gender": "Female"}
 computed: {
   maleCats:function() {
       return this.cats.filter(c => c.gender === 'Male');
   femaleCats:function() {
       return this.cats.filter(c => c.gender === 'Female');
```

EXAMPLE (AFTER)

VUE LIFECYCLE EVENTS

Events that occur while a Vue instance is doing stuff

beforeCreate, created, beforeMount, mounted, beforeUpate, updated, activated, deactivated, beforeDestroy, destroyed, errorCaptured

https://vuejs.org/v2/api/#Options-Lifecycle-Hooks

EXAMPLE

```
var app = new Vue({
  el:'#app',
  data:{
    films:[]
},
  created:function() {
    fetch('https://swapi.co/api/films/')
    .then(res => res.json())
    .then(res => {
       this.films = res.results;
    })
  }
})
```

```
<div id="app">

                {film.title}}

</div>
```



FULL EXAMPLE: FORM VALIDATION

Do I need to explain this?

Check on submit, report on top

More examples: https://vuejs.org/v2/cookbook/form-validation.html

FULL EXAMPLE: AJAX SEARCH

Accept user input

Send to remote API...

Render responses

COMPONENTS

Re-usable objects of awesome-ness

Template + Logic + Style = Component

Also solves one of HTML's most glaring problems...



EXAMPLE

```
Vue.component('nicolas-cage', {
  data() {
    return {
  computed: {
    url:function() {
  },
   height:{
    },
```

EXAMPLE

```
<div id="app">
  <h2>Default</h2>
  <nicolas-cage></nicolas-cage>

  <h2>H/W</h2>
  <nicolas-cage width="199" height="199"></nicolas-cage>
</div>
```

COMPONENT EXAMPLES

Google Static Maps: https://www.npmjs.com/package/vue-static-map

Bootstrap: https://bootstrap-vue.js.org/

Vuetify: https://vuetifyjs.com/en/

MORE COMPONENT STUFF

You can pass data in from the parent

You can listen for events from the component

Slots

SLOT EXAMPLE

<mything thankyou="Hey buddy, thank you for doing that thing. I appreciate it. Here's
a kitten."></mything>

```
<mything>
  <div slot="thankyou">
  Hey, I want to <i>really</i> thank you for taking
  the time to do whatever. We here at Mega Corp truly
  care that you took the time. Oh, and here, please
  take a kitten!
  </div>
</mything>
```

ROUTING

```
Not a part of Vue
```

Official library: vue-router (https://router.vuejs.org)

"If I'm at location /foo, I want to do Foo"

"If I'm at location /goo, I want to do Goo"

EXAMPLE (FROM THE DOCS)

```
const routes = [
  { path: '/foo', component: Foo },
  { path: '/bar', component: Bar }
const router = new VueRouter({
  routes // short for `routes: routes`
});
const app = new Vue({
 el:'#app',
 router
});
```

EXAMPLE (STILL FROM THE DOCS)

FULL EXAMPLE: MASTER/DETAIL

First page - list of data

Second page - detail

STATE MANAGEMENT

Solves a problem you may not have!

One component, one set of data = easy

Two components, two set of data = mostly easy

Many components, one set of data = um....

VUEX

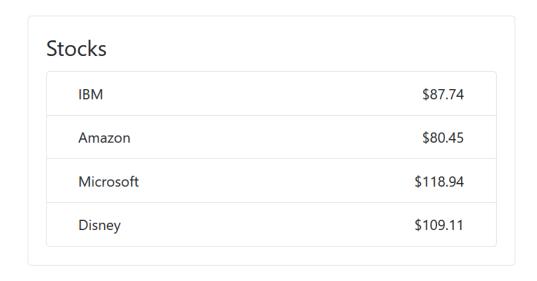
(Another) library for Vue (deeply integrated)

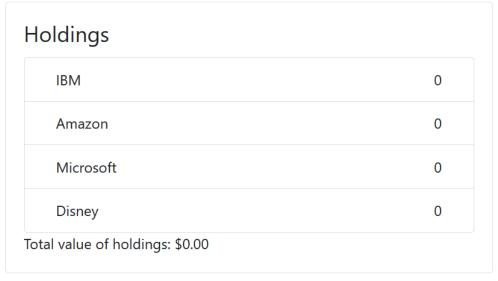
"Store"

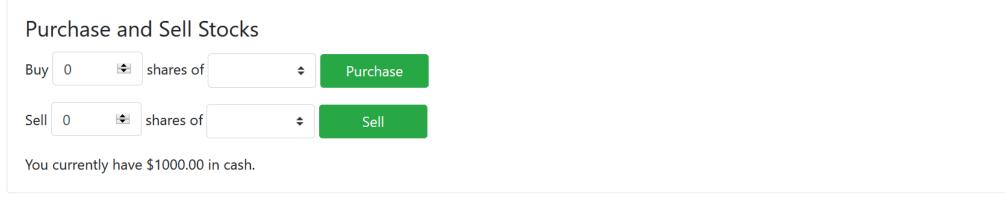
Components can read from the store

Components cannot change data in the store

VUEX EXAMPLE







THE CLI

Scaffolding tool

Focused on SPAs (but also does prototyping well)

https://cli.vuejs.org

Supports Single File Components

SINGLE FILE COMPONENTS

```
Hello.vue
     Hello.vue
 <template>
  {{ greeting }} World!
</template>
<script>
module.exports = {
  data: function () {
    return {
      greeting: 'Hello'
</script>
<style scoped>
p {
  font-size: 2em;
  text-align: center;
</style>
Line 21, Column 1
                                              Vue Component
```

WALKTHROUGH

FYI, install via: npm i -g @vue/cli

Then: vue create foo

Or: vue serve (with App.vue)

BUT WAIT — THERE'S MORE!



EVEN MOAR!!!

Devtools Extension (Chrome, Firefox, Electron, Apple Keynote Browser)

https://github.com/vuejs/vue-devtools

Nuxt (nuxtjs.org)

Sarah Drasner on CSS-Tricks: https://css-tricks.com/intro-to-vue-1-rendering-directives-events/

Vue docs has a cool cookbook: https://vuejs.org/v2/cookbook/

My Stuff: https://www.raymondcamden.com/tags/vuejs

ANY QUESTIONS?

Carol is judging your questions...

