CODING WORKSHOP

VUEJS 100

GETTING SETUP

Repo: http://bit.ly/2qGa0C6

CodeSandbox: http://bit.ly/2HsBsxu

LET'S GET STARTED!

VUEJS INTRO

WHAT ARE CLIENT-SIDE FRAMEWORKS?

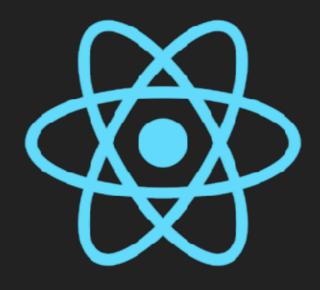
ALLOW YOU TO TAKE CONTROL OF YOUR SITE'S USER EXPERIENCE

Ben Hong

MOST POPULAR FRAMEWORKS

MOST POPULAR FRAMEWORKS

















	Angular	React	
Founded By	Google Facebook		
How Opinionated?	Opinionated	Flexible	
Learning Curve	Easy to start Hard to start Hard to master Intermediate to ma		
Template	ngHTML	JSX	

```
<section id="todoapp">
  ng-class="{completed: todo.completed, editing: todo == editedTodo}"
      >
        <div class="view">
            <input class="toggle"</pre>
               type="checkbox"
              ng-model="todo.completed" ng-change="toggleCompleted(todo)">
            <label ng-dblclick="editTodo(todo)">
               {{todo.title}}
            </label>
            <button class="destroy" ng-click="removeTodo(todo)"></button>
        </div>
     </section>
```

NG-HTML EXAMPLE

```
import React from 'react';
import { render } from 'react-dom';
import Hello from './Hello';
const styles = {
    fontFamily: 'Avenir, Helvetica, Arial, sans-serif';
    textAlign: 'center',
    color: '#2c3e50',
    marginTop: '60px'
};
const App = () => (
    <div style={styles} className="app" id="app">
        <h1>This is a React.js component file!</h1>
    </div>
);
export default App
```

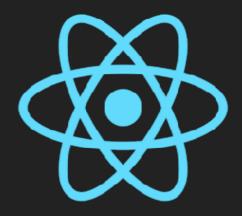
JSX EXAMPLE





	Angular	React	
Founded By	Google Facebook		
How Opinionated?	Opinionated	Flexible	
Learning Curve	Easy to start Hard to start Hard to master Intermediate to ma		
Template	ngHTML	JSX	







COMPARING THE TOP 3 FRAMEWORKS







	Angular	React	Vue
Founded By	Google	Facebook	Evan You
How Opinionated?	Opinionated	Flexible	Guidance as needed
Learning Curve	Easy to start Hard to master	Hard to start Moderate to master	Easy to start Moderate to master
Template	ngHTML	JSX	vHTML (optional)

COMPARING THE TOP 3 FRAMEWORKS







	Angular	React	Vue
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How Opinionated?	Opinionated	Flexible	Guidance as needed
Learning Curve	Easy to start Hard to master	Hard to start Moderate to master	Easy to start Moderate to master
Template	ngHTML	JSX	vHTML (optional)
GitHub Stars	93.4k (62% v1)*	93.6k*	91k*

WHICH FRAMEWORK SHOULD YOU CHOOSE?

T DEPENDS

CHOSE VUE

AN OVERVIEW OF

VUEJS BASICS

AN INSTANCE OF VUE.JS

```
const app = new Vue({
   // Determine the element your app will live in
    el: "#app",
   // Establishes the data you can use in the app
    data: {
        firstName: 'Ben',
        lastName: 'Hong'
    },
    // Allows you to define functions that you can
   // call in your app
    methods: {
        sayHello: function() {
            alert('Hello!')
3)
```

EXPRESSIONS IN VUE.JS

```
<!-- Using data variables is easy! -->
{p>{{ firstName }} {{ lastName }}

<!-- You can even do math! -->
How about some math? {{ 11 * 11 }}

<!-- Basic logic works as well! -->
{p>{{ onSale ? price * 0.8 : price }}
```

LET'S TALK ABOUT DIRECTIVES



Directives are the part of Vue.js that are a bit magical...

WHAT ARE DIRECTIVES EXACTLY?

They are Vue specific syntax that flow you to accomplish common goals without worrying about how it is implemented

v-if

v-for

v-else-if

v-bind

v-else

v-on

v-show

v-model

V-IF / V-ELSE-IF / V-ELSE

Allows you to determine whether an element on the page should **exist**

```
<article>
    <h1>Dashboard</h1>
    <section v-if="userPermission === 'admin'">
    </section>
    <section v-else-if="userPermission === 'user'">
    </section>
    <section v-else>
    </section>
</article>
```

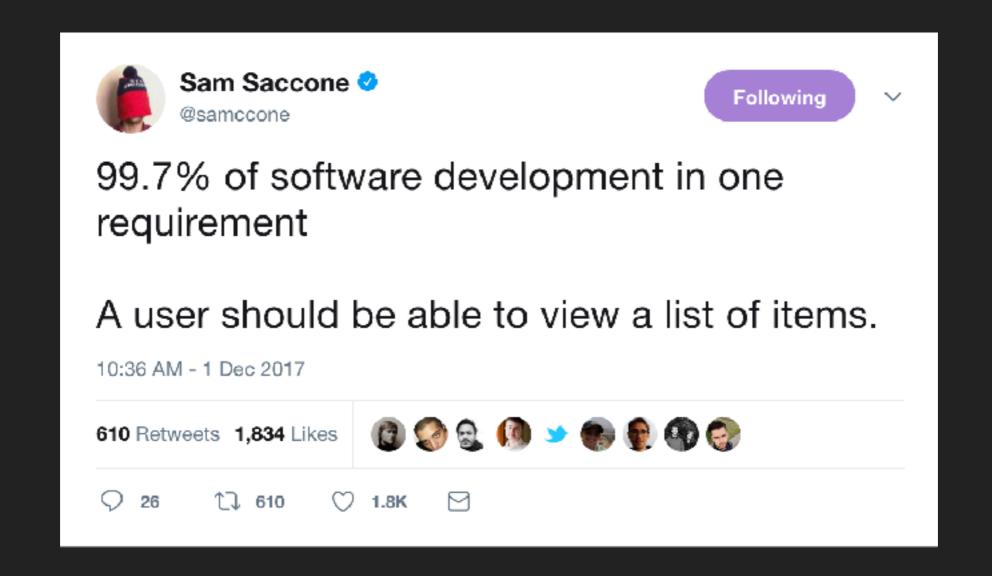
V-SHOW

Allows you to determine whether an element on the page should be **visible**

VS

V-IF / V-ELSE-IF / V-ELSE

Allows you to determine whether an element on the page should **exist**



V-FOR

Allows us to "render a list of items based on an array (or object)."

```
<!-- Given the data model on the right -->
<l
  {{ house }}
  <!-- It will render to -->
<l
  Ravenclaw
  Hufflepuff
  Slytherin
  Griffindor
```

```
// Given this sample Vue instance
new Vue({
    data: {
        Hogwarts: [
             'Ravenclaw',
             'Hufflepuff',
             'Slytherin',
             'Gryffindor'
})
```

V-BIND

Allows us to manipulate HTML attributes with dynamic data

```
<!-- The long form -->
<div v-bind:class="{ active: isActive }">...</div>
<!-- The common shortcut -->
<div :class="{ active: isActive }">...</div>
<!-- If isActive is true, it will render -->
<div class="active">...</div>
```

V-ON

Allows us to attach methods to HTML elements when a certain event occurs

```
<!-- The long form -->
<div v-on:click="alert('Alohomora!')">...</div>
<!-- The common shortcut -->
<div @click="alert('Alohomora!')">...</div>
```

V-MODEL

Allows us to use two-way binding

```
(script>
new Vue({
    el: '#app',
    data: {
        msg: ''
    }
})
</script>
```

ENOUGH TALKING. LET'S SEE SOME CODE!

LET'S BUILD SOMETHING!

BASIC CALCULATOR

CODING WORKSHOP

VUEJS 100

GETTING SETUP

Repo: http://bit.ly/2qGa0C6

CodeSandbox: http://bit.ly/2HsBsxu

GETTING SETUP

http://www.github.com/bencodezen

AS WE COME TO A CLOSE...

FINAL THOUGHTS



#1. ACCESSIBLE TO DEVELOPERS OF PRETTY MUCH ALL ABILITIES

```
import React from 'react';
import { render } from 'react-dom';
import Hello from './Hello';
const styles = {
    fontFamily: 'Avenir, Helvetica, Arial, sans-serif';
    textAlign: 'center',
    color: '#2c3e50',
    marginTop: '60px'
};
const App = () => (
    <div style={styles} className="app" id="app">
        <h1>This is a React.js component file!</h1>
    </div>
);
export default App
```

JSX EXAMPLE

```
<template>
  <div id="app" class="app">
    <h1>This is a Vue.js component file!</h1>
  </div>
</template>
<script>
export default {
  name: 'App'
</script>
<style>
.app {
  font-family: 'Avenir', Helvetica, Arial, sans-serif;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  text-align: center;
  color: #2c3e50;
  margin-top: 60px;
</style>
```

SINGLE FILE COMPONENT (SFC)

#2. THEIR DOCS ARE ONE OF THE BEST OUT THERE



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Guide 2x 📴

Essentials

Installation

Introduction

What is Vue.js?

Getting Started

Declarative Rendering

Conditionals and Loops

Mandling User Input

Composing with Components

Relation to Custom Elements

Ready for More?

The Vue Instance

Template Syntax

Computed Properties and Watchers

Class and Style Bindings

Conditional Rendering

List Rendering

Event Handling

Introduction

What is Vue.js?

Vue (pronounced /v/uc/, 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, CSS, 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.

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VUEJS DOCS

https://vuejs.org/v2/guide/



#3. IT IS THERE WHEN YOU NEED IT AND THEN IT GETS OUT OF YOUR WAY.

Special Spensors





Style Guide BETA

Rule Categories

- Priority A: Essential
- Priority B: Strongly Recommended
- Priority C: Recommended
- Priority D: Use with Caution

Priority A Rules: Essential

- Multi-word component names
- Component data
- Prop definitions
- Reved v-for
- Avoid v-if with v-for
- Component style scoping
- Private property names

Priority B Rules: Strongly Recommended

- Component files
- Single-file component filename casing
- Base component names
- Single-instance component names
- Tightly coupled component names.
- Order of words in component names

Style Guide

This is the official style guide for Vue-specific code. If you use Vue in a project, it's a great reference to avoid errors, bikeshedding, and anti-patterns. However, we don't believe that any style guide is ideal for all teams or projects, so mindful deviations are encouraged based on past experience, the surrounding tech stack, and personal values.

For the most part, we also avoid suggestions about JavaScript or HTML in general. We don't mind whether you use semicolons or trailing commas. We don't mind whether your HTML uses single-quotes or double-quotes for attribute values. Some exceptions will exist however, where we've found that a particular pattern is helpful in the context of Vue.

Soon, we'll also provide tips for enforcement. Sometimes you'll simply have to be disciplined, but wherever possible, we'll try to show you how to use ESLint and other automated processes to make enforcement simpler.

Finally, we've split rules into four categories:

Rule Categories

Priority A: Essential

These rules help prevent errors, so learn and abide by them at all costs. Exceptions may exist, but should be very rare and only be made by those with expert knowledge of both JavaScript

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VUEJS STYLE GUIDE

https://vuejs.org/v2/style-guide/

VUE.JS IS THE MOST COMPASSIONATE FRAMEWORK IN THE MARKET RIGHT NOW.

Ben Hong

SO WHAT ELSE IS THERE TO LEARN ABOUT?

- State Management
- Animations
- Custom Events
- Computed Properties
- Managing CSS in Vue.js
- Slots

- Watch Property
- Component Props
- Lifecycle Hooks
- Mixins
- Filters
- And much more!

WHAT OTHER RESOURCES DO YOU RECOMMEND?

Paid

- Udemy: Vue.js 2 The Complete Guide
- Frontend Masters: Introduction to Vue.js

Free

- Official Vue.js Guide
- VueDC: VueJS 101: The Essentials
- VueDC Meetups

Q & A

WENCODEZEN