

Full Stack Web Development

WS2019 - BSA5 Ausgewählte Kapitel

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Smart Homes and Assistive Systems

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Outline

1 Vue

1.1 Intro

1.2 Setup

Vue - JavaScript Frameworks

- AngularJS
- Angular
- React
- Vue.js
- Ember.js
- ...



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Vue - Progressive Web Applications



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Vue.js

- Client-side JavaScript framework
- Progressive framework
- Performant
- Lightweight (~33.30kB - `min+gzip`)
- Extensible
 - Vue Router
 - Vuex
 - Vue Server Renderer



Figure 1: Vue.js Logo
[2]



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Vue - Core Features

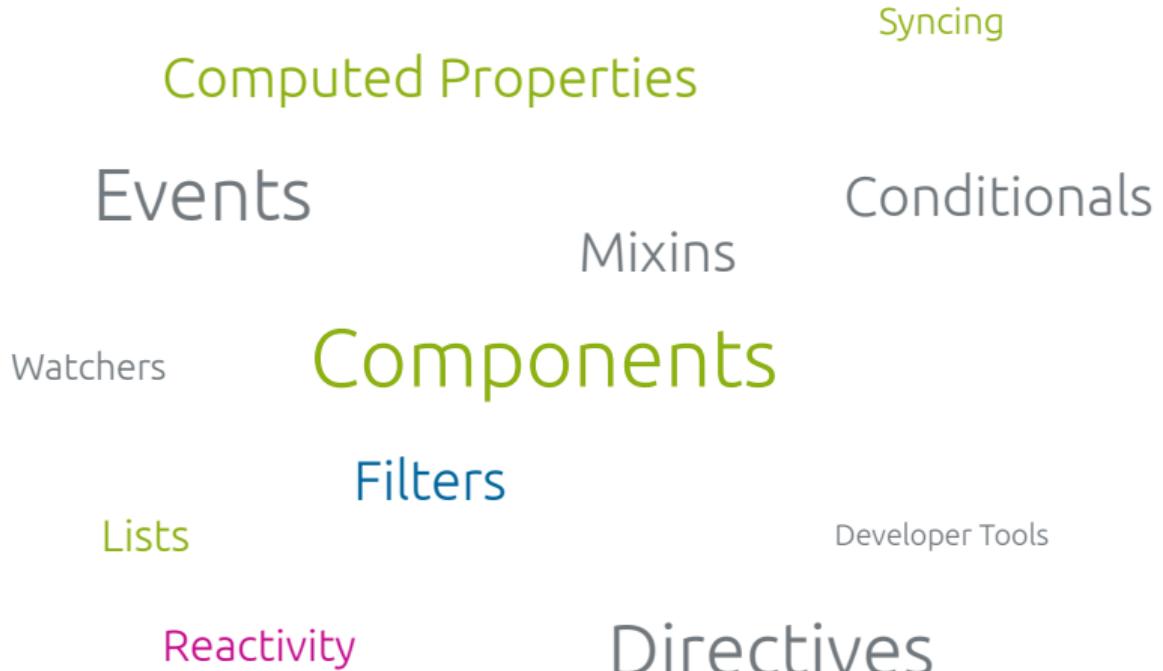


Figure 2: Vue.js Core Features



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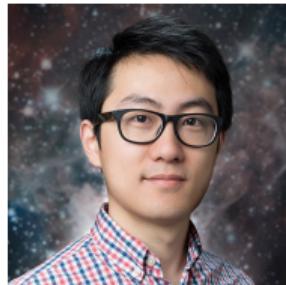
Vue

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Vue - Evan You [1, 3]

- Born and raised in Wuxi, PRC (无锡中国).
- Recruited by Google for his work, inspired by [Chrome experiments](#), and joined the [Five program](#) during his study in the [U.S.](#).
- Started the work on [Vue.js](#) as a personal project during his work at Google Creative Labs in 2013.
- Works full-time on Vue since 2016.



[Figure 3: Evan You](#)
(尤雨溪)



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Vue

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Vue - Setup

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <meta charset="utf-8" />
5     <title>Vue Setup</title>
6     <script src="https://vuejs.org/js/vue.js"></script>
7   </head>
8   <body>
9     <div id="app">{{ text }}</div>
10    </body>
11    <script src=".//app.js"></script>
12  </html>
```

Listing 1: Vue Setup (`index.html`)



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Vue - Setup



```
1 new Vue({  
2   el: "#app",  
3   data() {  
4     return {  
5       text: "Hello World!"  
6     };  
7   }  
8 });
```

Listing 2: Vue Setup (app.js)

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Vue - Setup

```
1 <template>
2   <div>
3     <div @click="echo">{{text}}</div>
4   </div>
5 </template>
6
7 <script>
8 export default {
9   data() {
10     return {
11       text: "Hello World!"
12     };
13   }
14 };
15 </script>
16
17 <style lang="scss" scoped>
18 </style>
```

Listing 3: Vue Setup (App.vue)



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```
1 <template>
2   <div>
3     <input v-model="username" class />
4     <div v-if="error" class="error">{{ error }}</div>
5     <button @click="action">Doit</button>
6   </div>
7 </template>
```

Listing 4: Vue Setup (App2.vue)

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```
9 <script>
10 export default {
11   name: "Hello",
12   data() {
13     return {
14       username: ""
15     };
16   },
17   computed: {
18     error() {
19       return this.username.trim().length < 7
20         ? "Please enter a longer username"
21         : "";
22     }
23   }
24 };
25 </script>
```

Listing 4: Vue Setup (App2.vue)

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Vue - Course Project Setup



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Vue - Tools



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Acronyms I



PRC People's Republic of China

PWA Progressive Web Application

U.S. United States

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Acronyms

References

References I

- [1] V. Cromwell, "Between the Wires: An interview with Vue.js creator Evan You," <https://dev.to/betweenthewires/evan-you>, 11 2016.
- [2] Evan You, "The Progessive JavaScript Framework," <https://vuejs.org/>, 2014.
- [3] ——, "GitHub Customer Stories - Evan You," <https://github.com/customer-stories/yyx990803>, 2019.



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References