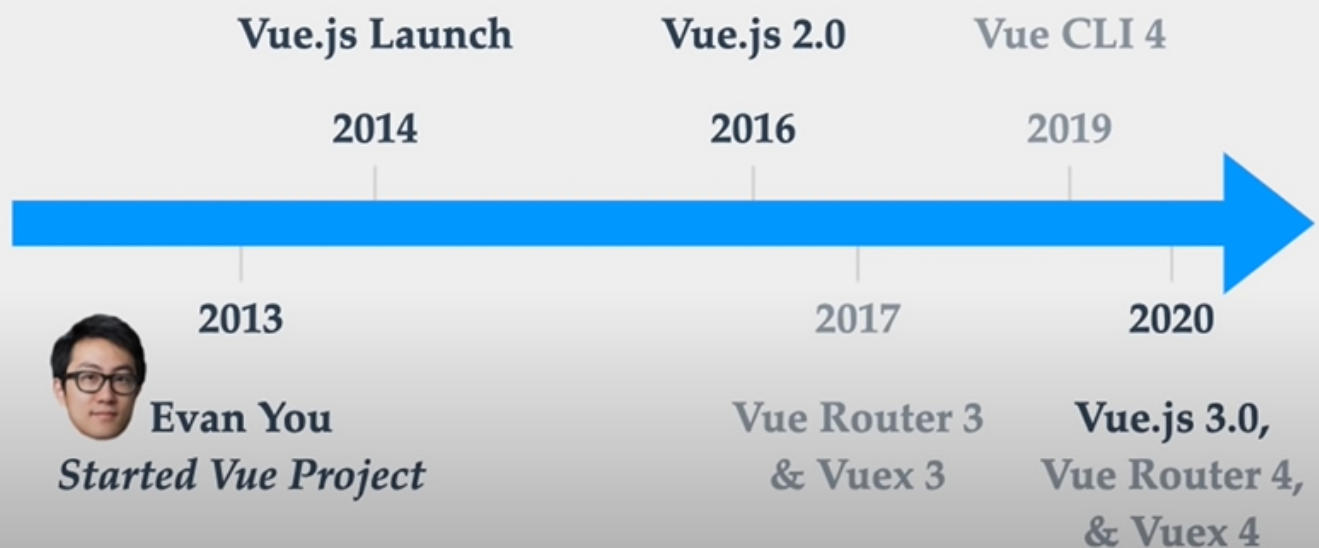


Features & Benefits

- Virtual DOM
- Lightweight (10k gzip)
- Progressive
- Vue Ecosystem
- Flexible

1. Virtual Dom ist synchronisierte Version des HTML DOMs und ist gespeichert in dem Arbeitsspeicher und ermöglicht effizienz
2. Vue ist leichtfertig
3. Progressiv -> man kann wenig vue importieren oder es als ganzes Framework nutzen

History of Vue.js



Basic usage (0:12:17)

1. { Two-Way Databinding Options API -> data: function() { greeting: "hello"}
-> `<div>{{greeting}}</div>`

Vue JS Directives (0:19:48)

1. { v-if /else/else-if -> conditional rendering -> inserting and excluding Element of Dom
2. { v-show -> changing the display property so it is more efficient

Events and Methods (0:29:20)

1. { v-on:"event" -> click or other events -> @click="greeting(variableInData)"
2. { eventModifier -> keyup.modifier/enter -> when pressed enter it fires
3. { @click.prevent.stop -> prevent submit by clicking -> chainable

Components (0:39:27)

1. { Normale HTML Tag with custom name placed in Dom
2. { defined in vue app between the app init and app.mount
3. { funtion app.component("nameofCustomComponent", Options API)

```

<script src="https://unpkg.com/vue@next"></script>
<script>
  let app = Vue.createApp({
    data: function () {
      return {
        greeting: "Hello Vude3",
        isVisible: false,
      };
    },
    methods: {
      toggelBox() {
        this.isVisible = !this.isVisible
      },
    }
  });
  app.component('login-form', {
    template: `
      <form @submit.prevent="handlSubmit">
        <h1> {{ title}} </h1>
        <input type="email" v-model="email" />
        <input type="password" v-model="password" />
        <button>Log in </button>
      </form>
    `,
    data() {
      return {
        title: 'Login Form',
        email: '',
        password: ''
      }
    },
    methods: {
      handlSubmit() {
        console.log(this.email, this.password)
      }
    }
  })
  app.mount("#app");
</script>
</body>

```

4.

Component Props (0:57:30)

1. There are parent components and child components -> possibility to exchange data between them -> after template definition of ComponentHTML place

"components[]" array with other Custom-Components

2. Data declared at one child component can be used in the parent component through (v-bind:"property") that takes HTML tag properties and bind them to javascript ->
`<parentForm> <childInput v-bind:label="vueProp">` -> parent data containing the vueProp: "labelName" -> in ChildComponent declare
props: ['label'] to set the parent Label in the input that container {{label}}
3. v-bind:label -> :label
4. all v-model define for the same variable an modelValue that can be passed to childs in props
5. below props there could be a computed object get() and set() the childComponent v-model="inputValue"
6. there is the possibility to trigger functions with this.
`emit("functionname") — > this.emit('update:modelValue', value)`

```

1  app.component('login-form', {
2      template: `
3          <form @submit.prevent="handleSubmit">
4              <h1> {{ title}} </h1>
5              <custom-input v-model="email" :label="emailLabel" />
6              <custom-input v-model="password" :label="passwordLabel" />
7              <button>Log in </button>
8          </form>
9      `,
10     components: ['custom-input'],
11     data() {
12         return {
13             title: 'Login Form',
14             email: '',
15             password: '',
16             emailLabel: 'Email',
17             passwordLabel: 'Password',
18         }
19     },
20     methods: {
21         handleSubmit() {
22             console.log(this.email, this.password)
23         }
24     }
25 })
26 app.component('custom-input', {
27     template: `
28         <label>
29             {{label}}
30             <input type="text" v-model="inputValue">
31         </label>
32     `,
33     props: ['label', 'modelValue'],
34     computed: {
35         inputValue: {
36             get() {
37                 return this.modelValue;
38             },
39             set(value) {
40                 this.$emit('update:modelValue', value)
41             }
42         }
43     },
44     data() {
45         return {
46             inputVlue: '',
47         }
48     }
49 })
50

```

Loops (1:06:09)

1. (`<p v-for="{str,i} in inputs" :key="i"> {{str}}</p>`

```

1  app.component('login-form', {
2      template: `
3          <form @submit.prevent="handleSubmit">
4              <h1> {{ title}} </h1>
5              <custom-input
6                  v-for="(input,i) in inputs"
7                  :key="i"
8                  v-model="input.value"
9                  :label="input.label"
10                 :type="input.type" />
11              <button>Log in </button>
12          </form>
13      `,
14      components: ['custom-input'],
15      data() {
16          return {
17              title: 'Login Form',
18              inputs: [
19                  {
20                      label: 'Email',
21                      value: '',
22                      type: 'email'
23                  },
24                  {
25                      label: 'Password',
26                      value: '',
27                      type: 'password'
28                  }
29              ],
30              email: '',
31              password: '',
32              emailLabel: 'Email',
33              passwordLabel: 'Password',
34          }
35      },
36      methods: {
37          handleSubmit() {
38              console.log(this.inputs[0].value, this.inputs[1].value)
39          }
40      }
41  })
42  app.component('custom-input', {
43      template: `
44          <label>
45              {{label}}
46              <input :type="type" v-model="inputValue">
47          </label>
48      `,
49      props: ['label','type', 'modelValue'],

```

Lifecycle Hooks Adding Vue.js to a static site 🖥️ (1:14:30)

1. Components or html elems entering and leaving the dom is their lifecycle
 - a. beforeCreated, created, beforeMounted, mounted, beforeUpdated, updated, beforeUnmounted, unmounted -> used often for API Calls

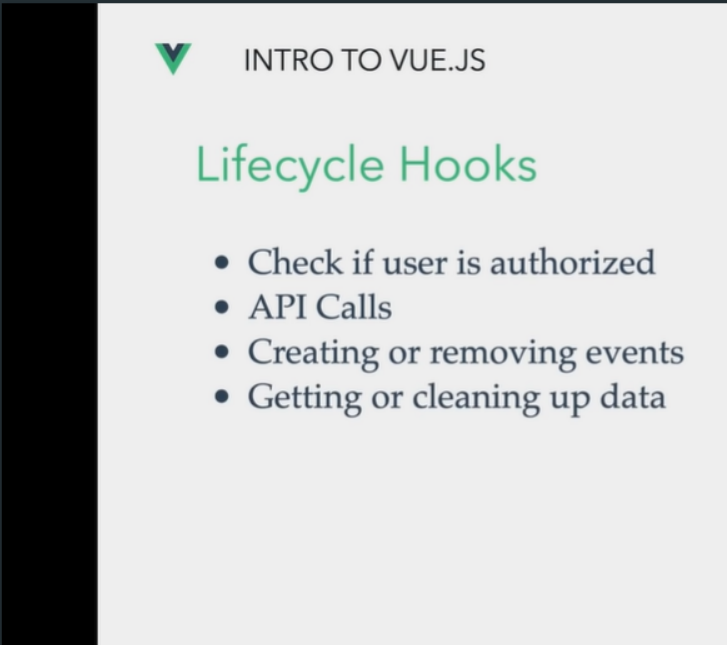
```
<script src="https://unpkg.com/vue@next"></script>
<script>
  let app = Vue.createApp({
    data: function () {
      return {
        isVisible: false,
      };
    },
    methods: {
      toggleBox() {
        this.isVisible = !this.isVisible
      }
    },
    updated() {

    },
  });
  app.component('test-box', {
    template: `
      <div class="box"></div>
    `,
    created() {

    },
    mounted() {

    },
    unmounted() {

    },
  });
  app.mount("#app");
</script>
```



The slide titled "INTRO TO VUE.JS" features the Vue.js logo and the heading "Lifecycle Hooks". It lists four key uses for lifecycle hooks: checking user authorization, making API calls, creating or removing events, and getting or cleaning up data.

- Check if user is authorized
- API Calls
- Creating or removing events
- Getting or cleaning up data

App Demo 🖥️ (1:26:45)

Adding Items to Cart 🖥️ (1:43:22)

Dynamic Content 🖥️ (2:15:54)

Reusable Components Single Page Application with Vue CLI 🖥️ (2:26:20)

Vue CLI 🖥️ (2:32:48)

Vue Folder Structure 🖥️ (2:43:58)

Top Nav 🖥️ (2:48:45)

Styling with SASS 🖥️ (3:00:25)

Application Pages 🖥️ (3:06:07)

Sidebar 🖥️ (3:20:46)

Adding Items to Cart 🖥️ (3:24:46)

Finishing Up (Card component)