



Workshop

Bring your Nextcloud app to Vue.js

Agenda

- Why Vue.JS
- The JavaScript ecosystem
- A quick guide to Vue
- Nextcloud components
- Example applications

Why Vue.JS

- Legacy javascript
- Outdated dependencies
- Lots of available libraries
- Great support
- Incredible easy-to-get documentation

Ecosystem: node/npm

- npm is a package manager for dependencies
- Dependabot for automated dependency bump [pull requests](#)

Ecosystem: webpack

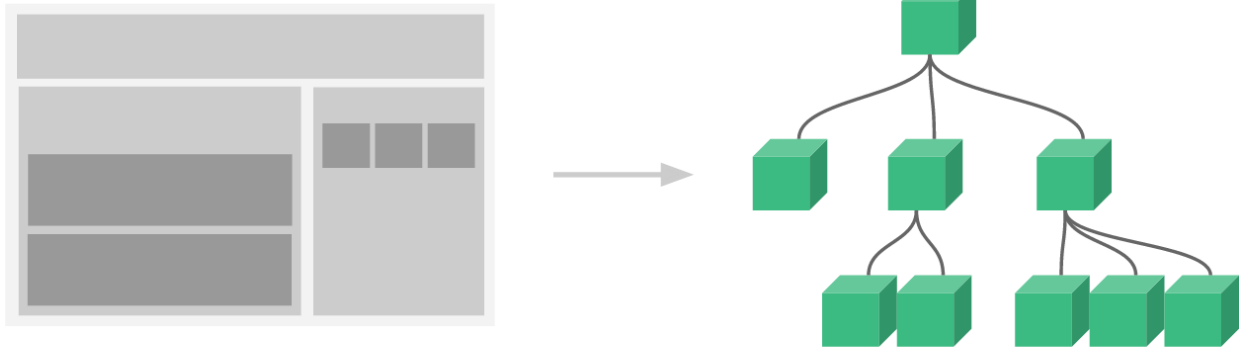
- Bundle source files together in one javascript file
- Transformation/polyfills possible (e.g. IE11 support)
- Include external dependencies
- Async components loading
- Embed stylesheets
- Extensible through plugins (e.g. for icon font generation)

Ecosystem: babel

- Takes care of transforming javascript
- e.g. ES6 to ES5
- Polyfills for modern syntax e.g. arrow functions
- Easily manage browser support with @babel/preset-env

Vue.JS:

- Quick introduction
- Component based



HTML

```
<div id="app">
  {{ message }}
</div>
```

JS

```
var app = new Vue({
  el: '#app',
  data: {
    message: 'Hello Vue!'
  }
})
```

Hello Vue!


```
<div id="app-3">  
  <span v-if="seen">Now you see me</span>  
</div>
```

```
var app3 = new Vue({  
  el: '#app-3',  
  data: {  
    seen: true  
  }  
})
```

Now you see me

```
<div id="app-4">
  <ol>
    <li v-for="todo in todos">
      {{ todo.text }}
    </li>
  </ol>
</div>
```

```
var app4 = new Vue({
  el: '#app-4',
  data: {
    todos: [
      { text: 'Learn JavaScript' },
      { text: 'Learn Vue' },
      { text: 'Build something awesome' }
    ]
  }
})
```

1. Learn JavaScript
2. Learn Vue
3. Build something awesome

```
<div id="app-5">
  <p>{{ message }}</p>
  <button v-on:click="reverseMessage">Reverse Message</button>
</div>
```

```
var app5 = new Vue({
  el: '#app-5',
  data: {
    message: 'Hello Vue.js!'
  },
  methods: {
    reverseMessage: function () {
      this.message = this.message.split('').reverse().join('')
    }
  }
})
```

Hello Vue.js!

Reverse Message

!sj.euV olleH

Reverse Message

```
<div id="app-6">
  <p>{{ message }}</p>
  <input v-model="message">
</div>
```

```
var app6 = new Vue({
  el: '#app-6',
  data: {
    message: 'Hello Vue!'
  }
})
```

Hello Vue!

Vue.JS: Useful resources

- Vuex as a data store
- Vue-router for single page navigation
- Javascript wrappers/helpers
 - nextcloud-l10n
 - nextcloud-router
 - nextcloud-password-confirmation
 - <https://www.npmjs.com/search?q=nextcloud-&ranking=popularity>

nextcloud-vue

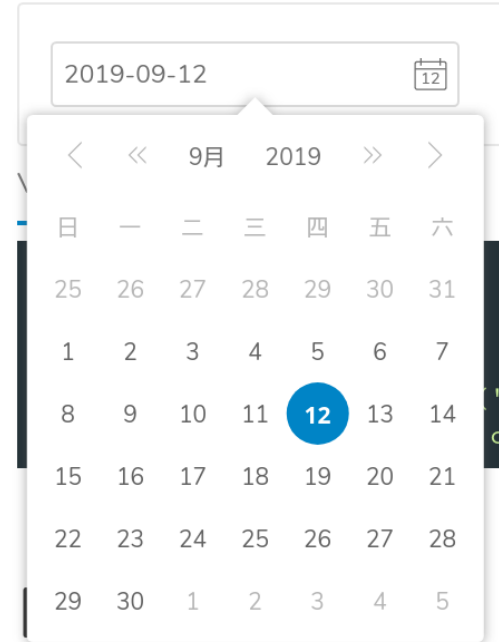
- Collection of UI components for Nextcloud apps
- Continuously growing
- Live documentation

nextcloud-vue

```
<template>
  <DatetimePicker
    :value="new Date()"
    type="datetime"
    @update: value="alert('Value updated')"
    @change="alert('Date changed')" />
</template>
<script>
import { DatetimePicker } from 'nextcloud-vue/dist/Components/DatetimePicker';

export default {
  components: { DatetimePicker }
}
</script>
```

<https://nextcloud-vue-components.netlify.com/>



Example apps

- “State of the art” app
 - <https://github.com/skjinldsv/vueexample>
- App tutorial
 - Very basic notes app implementation
 - Shows both frontend and backend code
 - <https://github.com/nextcloud/app-tutorial>

Build skeleton

- `src/main.js`
- `.babelrc.js`
- `.eslintrc.js`
- `package.json`
- `webpack.common.js` / `webpack.dev.js` / `webpack.prod.js`

Run

- `package.json` defines run scripts
- `npm run build`
- `npm run watch`
- `npm run lint`
- `npm run lint:fix`

Start exploring


- Clone the example app / app tutorial
- Try out the component examples
- We are here to help



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