

Vue.js, the progressive framework

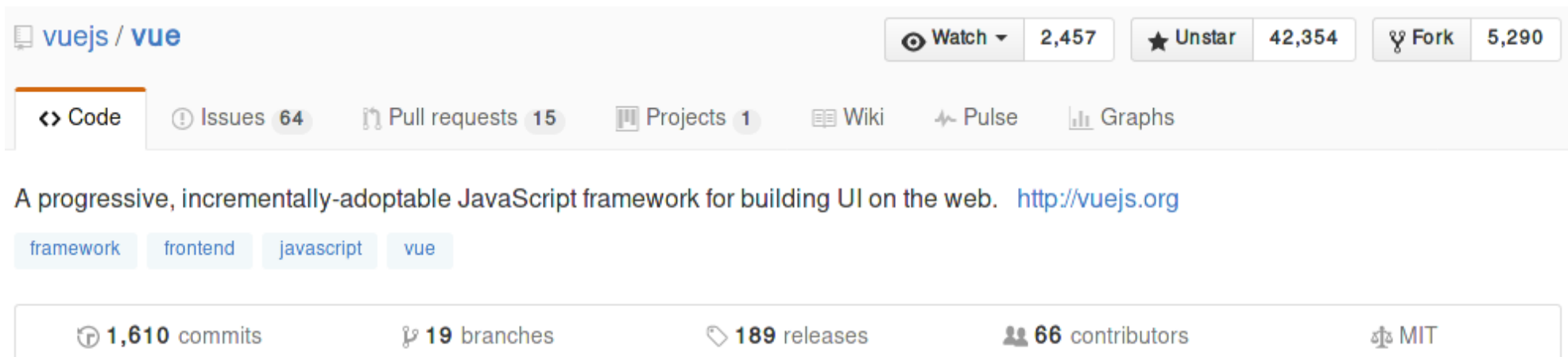


Meetup Dev Web des Savoie - février 2017



Vue.js c'est quoi ?

- **Un framework JavaScript progressif pour créer des interfaces utilisateurs.**



The screenshot shows the GitHub repository page for vuejs/vue. At the top, it displays the repository name 'vuejs / vue' and several action buttons: 'Watch' (2,457), 'Unstar' (42,354), and 'Fork' (5,290). Below this, there are navigation tabs for 'Code', 'Issues' (64), 'Pull requests' (15), 'Projects' (1), 'Wiki', 'Pulse', and 'Graphs'. A description of the project is provided: 'A progressive, incrementally-adoptable JavaScript framework for building UI on the web.' followed by the URL 'http://vuejs.org'. Below the description are tags for 'framework', 'frontend', 'javascript', and 'vue'. At the bottom, statistics are shown: '1,610 commits', '19 branches', '189 releases', '66 contributors', and 'MIT' license.

vuejs / vue

Watch 2,457 Unstar 42,354 Fork 5,290

Code Issues 64 Pull requests 15 Projects 1 Wiki Pulse Graphs

A progressive, incrementally-adoptable JavaScript framework for building UI on the web. <http://vuejs.org>

framework frontend javascript vue

1,610 commits 19 branches 189 releases 66 contributors MIT

Vue.js c'est qui ?

- **Créé par Evan You, en octobre 2015**
- **Pas d'entreprise unique derrière**
- **Sponsoring**
- **Patreon (~9K\$/m)**

Vue.js c'est où ?

- **Alibaba**
- **Baidu**
- **Xiaomi**
- **Nintendo**
- **GitLab**
- **Laravel**
- **...**

Vue.js, Hello World

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

HTML

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

HTML

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

JS

Hello Vue!

Vue.js, progressif jusqu'où ?

```
"devDependencies": {
  "autoprefixer": "^6.7.2",
  "babel-core": "^6.22.1",
  "babel-eslint": "^7.1.1",
  "babel-jest": "^18.0.0",
  "babel-loader": "^6.2.10",
  "babel-plugin-transform-object-rest-spread": "^6.22.0",
  "babel-plugin-transform-runtime": "^6.22.0",
  "babel-preset-env": "^1.1.8",
  "babel-preset-es2015": "^6.22.0",
  "babel-register": "^6.22.0",
  "chalk": "^1.1.3",
  "chromedriver": "^2.27.2",
  "connect-history-api-fallback": "^1.3.0",
  "cross-spawn": "^5.0.1",
  "css-loader": "^0.26.1",
  "eslint": "^3.14.1",
  "eslint-config-airbnb-base": "^11.0.1",
  "eslint-friendly-formatter": "^2.0.7",
  "eslint-import-resolver-webpack": "^0.8.1",
  "eslint-loader": "^1.6.1",
  "eslint-plugin-html": "^2.0.0",
  "eslint-plugin-import": "^2.2.0",
  "events-source-polyfill": "^0.9.6",
  "express": "^4.14.1",
  "extract-text-webpack-plugin": "^2.0.0-rc.2",
  "file-loader": "^0.10.0",
  "friendly-errors-webpack-plugin": "^1.1.3",
  "function-bind": "^1.1.0",
  "html-webpack-plugin": "^2.28.0",
  "http-proxy-middleware": "^0.17.3",
  "jest": "^18.1.0",
  "jest-vue-preprocessor": "^0.1.2",
  "js-beautify": "^1.6.8",
  "nightwatch": "^0.9.12",
  "opn": "^4.0.2",
  "ora": "^1.1.0",
  "selenium-server": "^3.0.1",
  "semver": "^5.3.0",
  "shelljs": "^0.7.6",
  "url-loader": "^0.5.7",
  "vue-loader": "^10.3.0",
  "vue-server-renderer": "^2.1.10",
  "vue-style-loader": "^2.0.0",
  "vue-template-compiler": "^2.1.10",
  "webpack": "^2.2.1",
  "webpack-bundle-analyzer": "^2.2.1",
  "webpack-dev-middleware": "^1.10.0",
  "webpack-hot-middleware": "^2.16.1",
  "webpack-merge": "^2.6.1"
},
```

```
<template>
  <div class="l-screen">
    <tdt-navigation @nav-back="onBack"></tdt-navigation>

    <main class="l-page-wrap r-albums">
      <router-view></router-view>
      <tdt-buy-star-banner mode="albums"></tdt-buy-star-banner>
    </main>
  </div>
</template>

<script>
import { mapActions } from 'vuex';

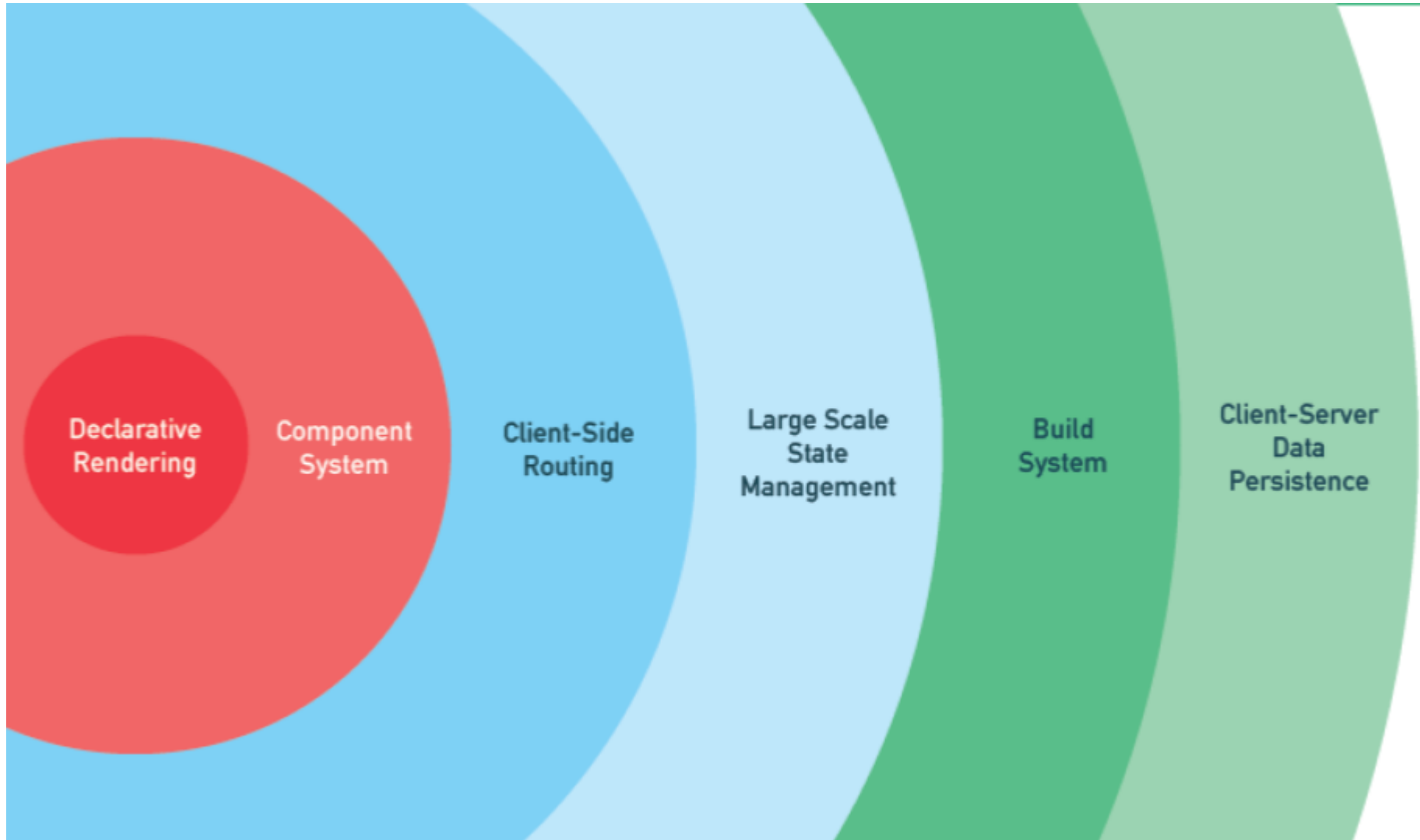
export default {
  name: 'PageAlbums',
  mounted() {
    this.loopMusic('ambient');
  },
  methods: {
    ...mapActions([
      'loopMusic',
    ]),
    onBack() {
      this.$router.push({ name: 'home' });
    },
  },
};
</script>

<style scoped lang="scss">

@import 'styles/colors';

.r-albums {
  background-color: $violet-3;
  opacity: 0.9;
}
</style>
```

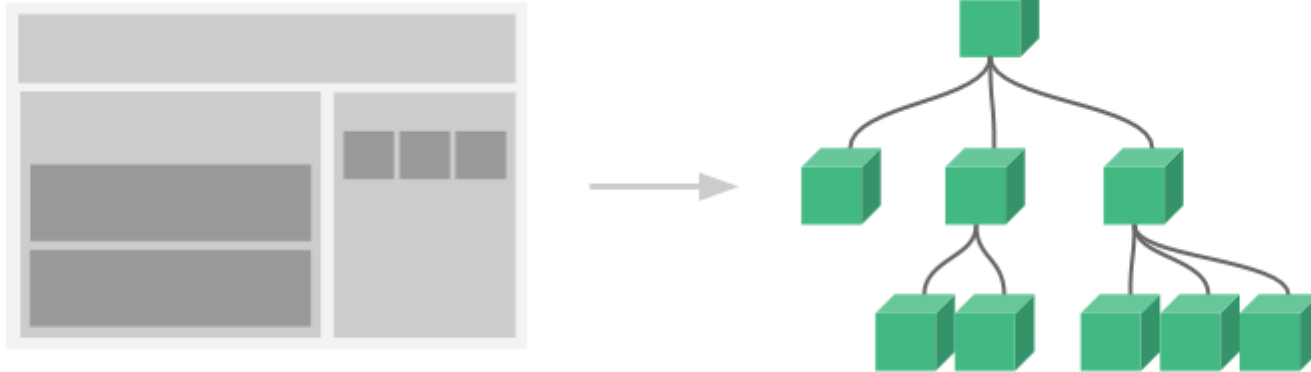
The Progressive Framework



Declarative rendering

```
hello.html
1 <script src="https://unpkg.com/vue@next/dist/vue.js"></script>
2
3 <div id="app">
4   {{ msg }}
5 </div>
6
7 <script>
8   const app = new Vue({
9     el: '#app',
10    data: {
11      msg: 'Hello World!'
12    }
13  })
14 </script>
15
Line 4, Column 12      Spaces: 2      Vue Component
```


Component System



Component System

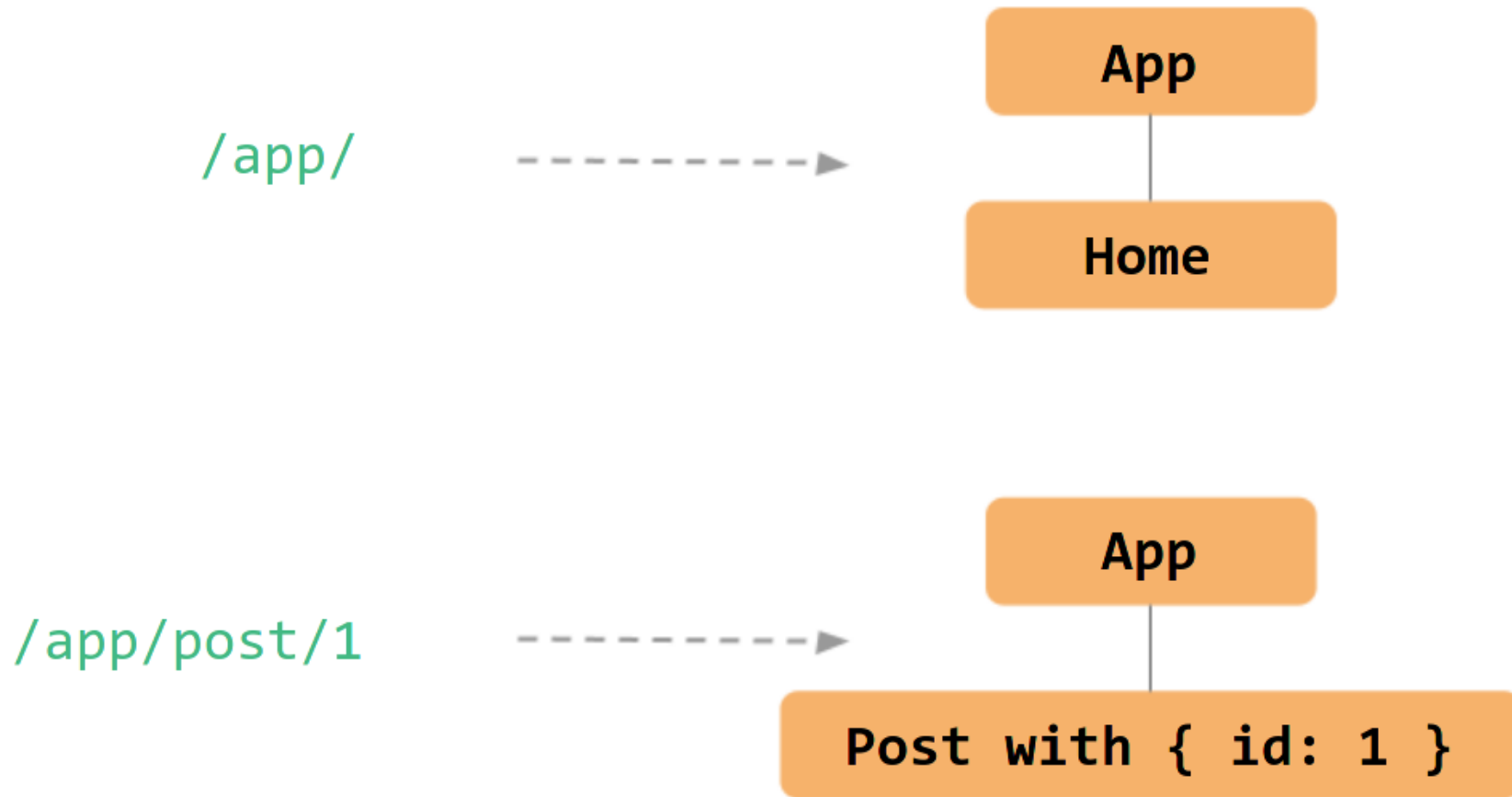
```
1 <template lang="jade">
2   div.my-component
3     h1 {{ msg }}
4     other-component
5 </template>
6
7 <script>
8   import OtherComponent from './other-component.vue'
9
10  export default {
11    components: { OtherComponent },
12    data() {
13      return {
14        msg: 'Hello Vue.js!'
15      }
16    }
17  }
18 </script>
19
20 <style lang="sass" scoped>
21   $font-stack: Helvetica, sans-serif;
22   $primary-color: #333;
23
24   .my-component {
25     font: 100% $font-stack;
26     color: $primary-color;
27   }
28 </style>
```

Component System

- **Single file vue components**
- **Regroupe html, js, css**
- **Pre-process à volonté : Babel, SASS, Pug, TypeScript, annotations,...**
- **Hot-reload ready**
- **CSS scoped, CSS Modules**

Component System

- **Vue-router**



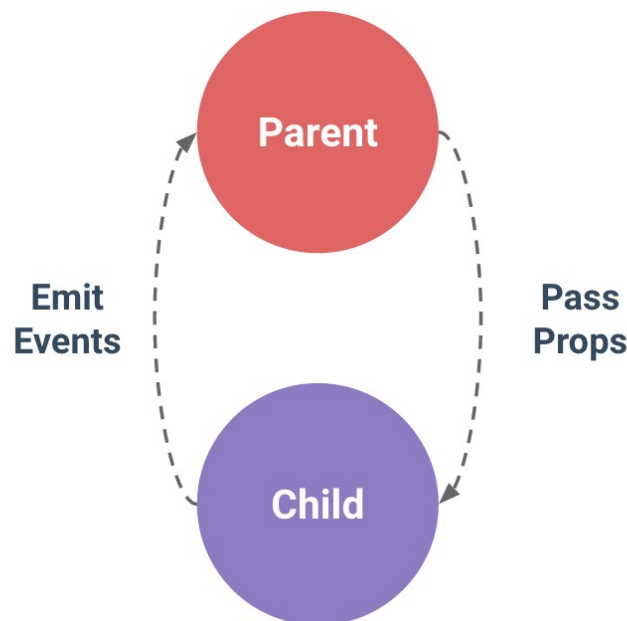
Component System

- **Vue-router**

- Nested Routes
- Named Routes
- Named Views
- Route Matching
- Active Links
- Redirect
- Route Alias
- Transitions
- Data Fetching
- Navigation Guards
- Scroll Behavior
- Lazy Loading
- Auth Flow

Component System

- **Communication parent/enfant**
 - IN : props
 - OUT : events / callback in props



Component System

- **Communication inter-composant**

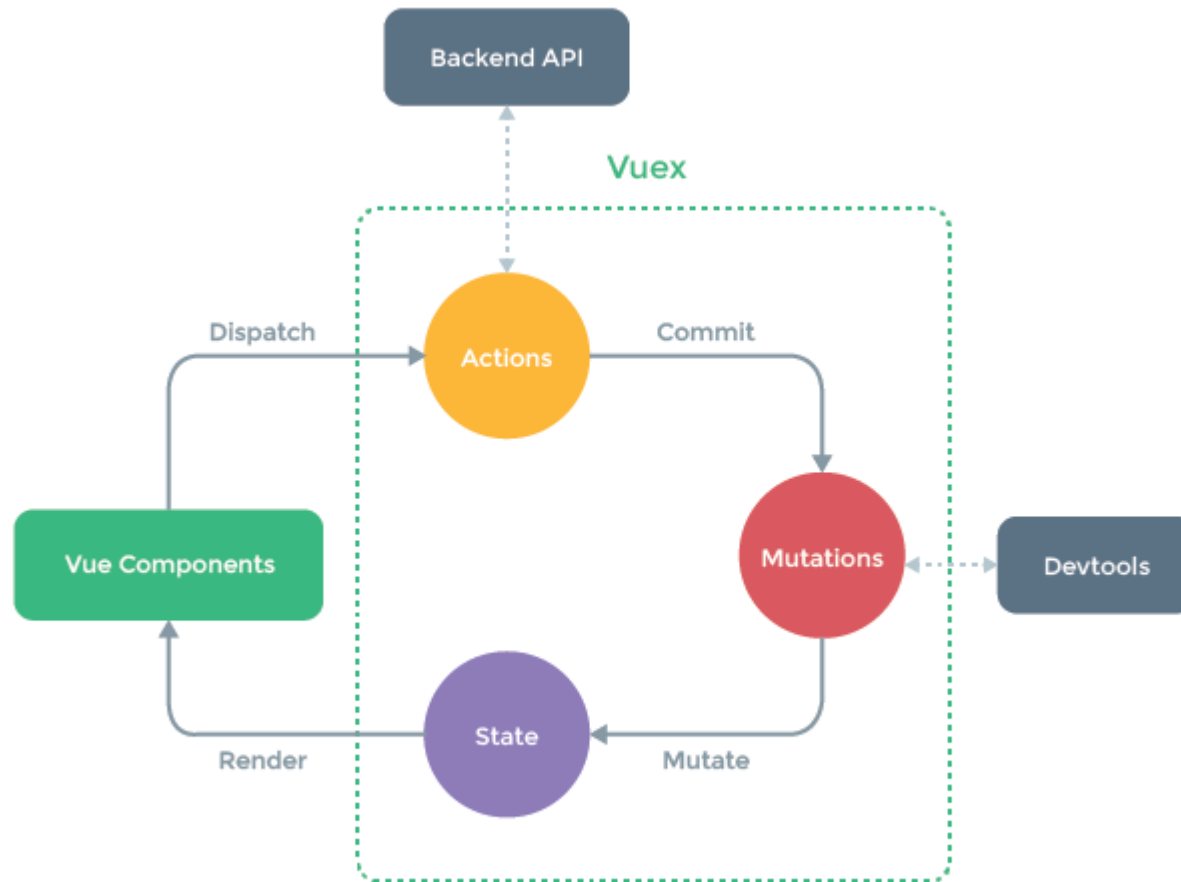
```
var bus = new Vue()
```

```
// in component A's method  
bus.$emit('id-selected', 1)
```

```
// in component B's created hook  
bus.$on('id-selected', function (id) {  
  // ...  
})
```

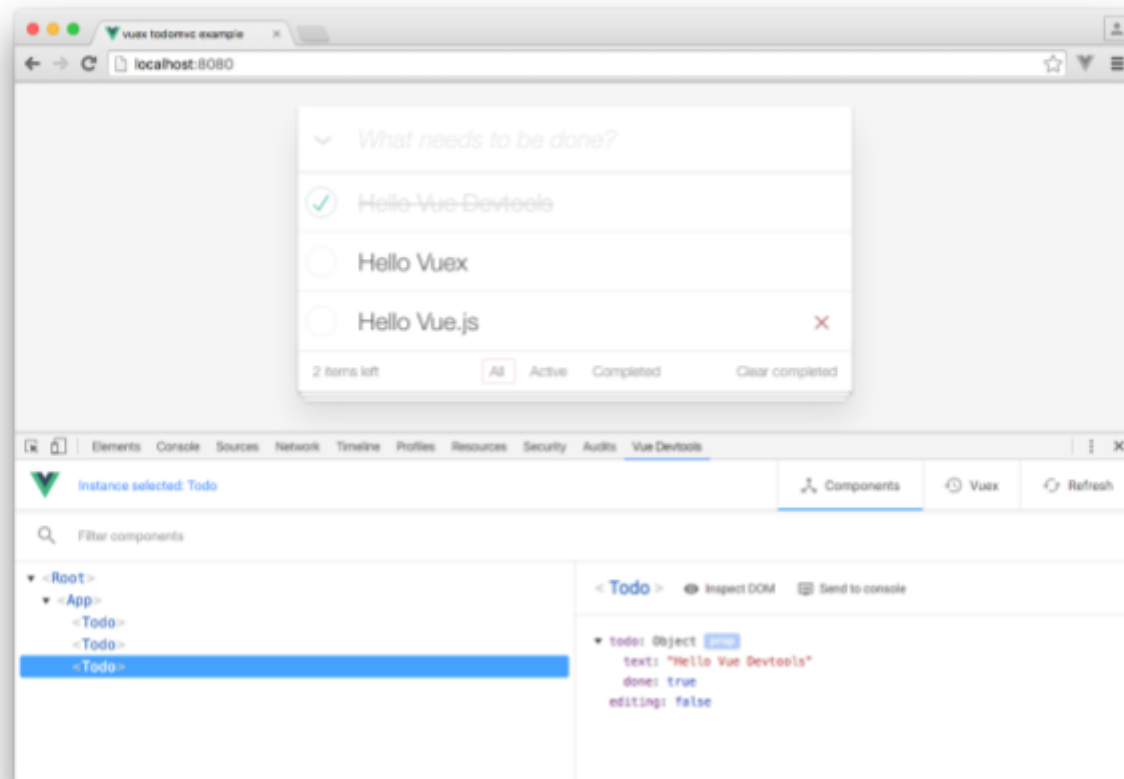
Large scale state management

- **vuex**



Build system

- **Chrome DevTools extension**



Build system

- **Vue-cli**
- **Official and custom template**
- **Zero config avec `vue build`**

```
npm install -g vue-cli  
vue init webpack-simple my-app  
cd my-app  
npm install  
npm run dev
```

Server Side Rendering

- **SSR avec cache et streaming**
- **Préférer un prerender pour les sites statiques/simples**
- **Nuxt.js**



Performances

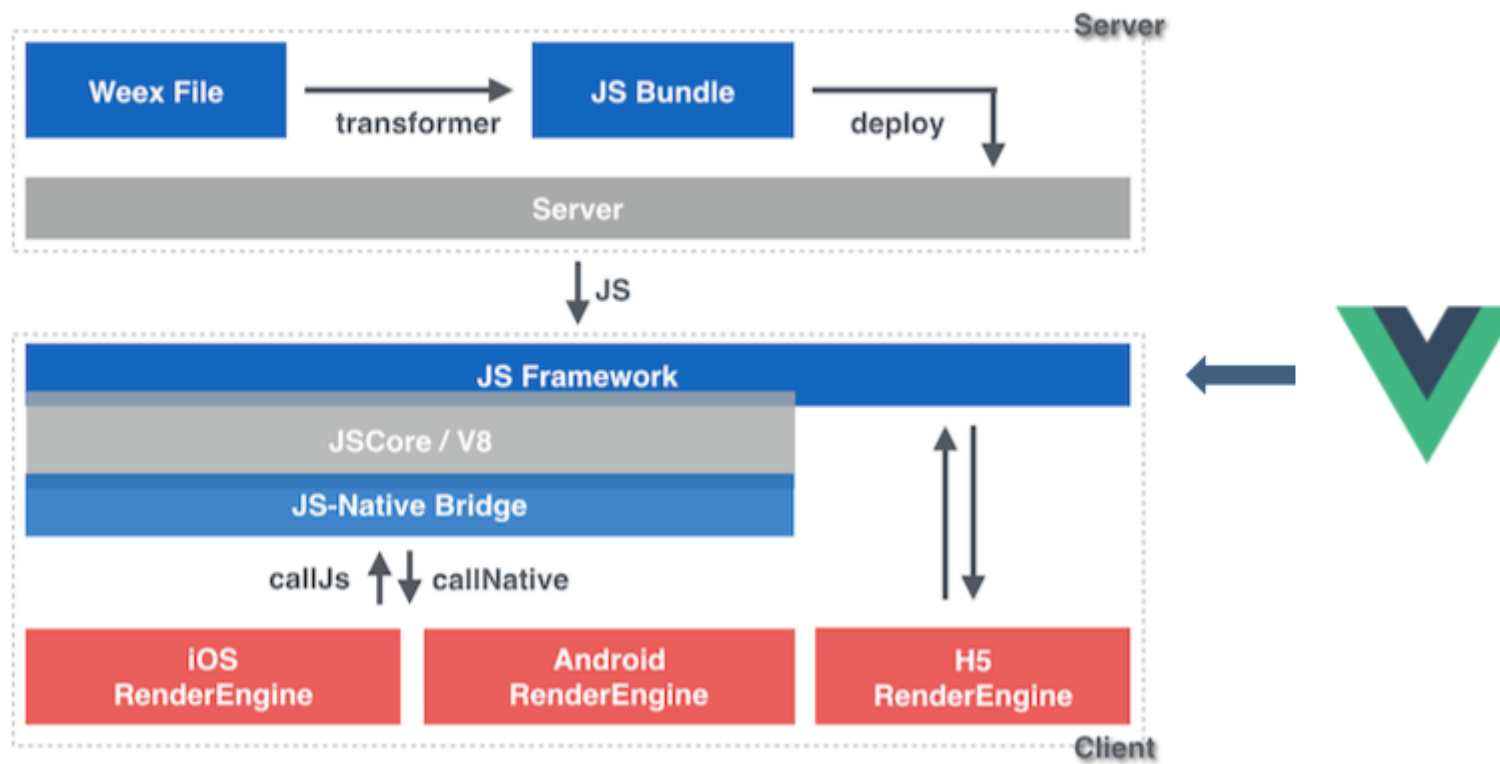
- **Light**
 - Vue + vue-router + vuex 2.0 = 26kb min+gzip
- **Fast**
 - [benchmark](#)
 - Y compris en développement

Vue-native ?

- **Weex**



Weex



Vue.js



Questions ?