



# Frontend on Steroids

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## With Vue.js

# Was ist Vue.js ?

A progressive,  
incrementally-adoptable  
JavaScript framework for  
building UI on the web.



Github Beschreibung



Warum?

# Vorteile

- Sehr einfach zu erlernen
- Einfach zu starten
- Flexibel einsetzbar
- Modular
- "Choice driven"
- Klein & Schnell (28.03kb min+gzip)



# Quickstart

Auch ohne Build Pipeline einsetzbar:

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

Ansonsten

```
yarn add vue
```

Besser

```
yarn add -g vue-cli
```

# 2 Bestandteile

# Script

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

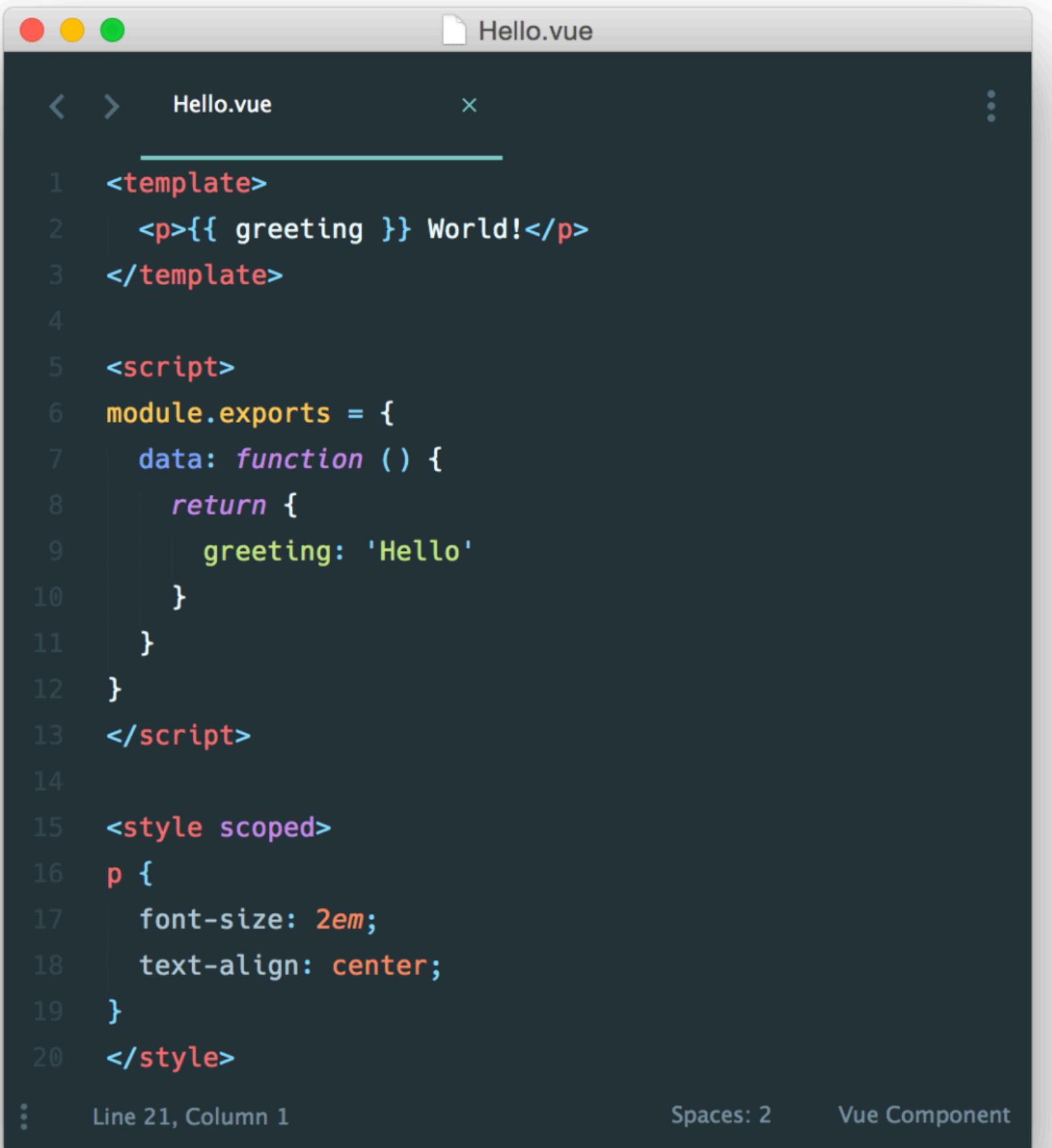
# Template:

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

# Single File Components

# Single File Components

- Inspiriert von Web Components
- \*.vue endung
- Template
- Script
- Styling



A screenshot of a code editor window titled "Hello.vue". The file contains a Vue component with template, script, and style sections. The template section includes a greeting message. The script section defines a data object with a greeting key. The style section applies a large font size and center alignment to the paragraph element.

```
1 <template>
2   <p>{{ greeting }} World!</p>
3 </template>
4
5 <script>
6 module.exports = {
7   data: function () {
8     return {
9       greeting: 'Hello'
10    }
11  }
12}
13</script>
14
15 <style scoped>
16 p {
17   font-size: 2em;
18   text-align: center;
19 }
20</style>
```

Line 21, Column 1      Spaces: 2      Vue Component

# Hello.vue



# Vorteile

- Kleine modulare Komponenten
- Shareable
- Saubere Kommunikation über props und events
- Testbar



vue-cli

- Scaffold für vue Projekte
- Optionen für
  - vue-router
  - eslint
  - Unit Tests mit karma
  - E2E Tests mit nightwatch



```
~/Projekte/pottjs  
› vue init webpack pottjs
```

```
? Project name pottjs  
? Project description Awesome Talk Project  
? Author Jakub Juszczak <jakub@posteo.de>  
? Vue build standalone  
? Install vue-router? No  
? Use ESLint to lint your code? Yes  
? Pick an ESLint preset Standard  
? Setup unit tests with Karma + Mocha? Yes  
? Setup e2e tests with Nightwatch? Yes
```

```
vue-cli · Generated "pottjs".
```

To get started:

```
cd pottjs  
npm install  
npm run dev
```

Documentation can be found at <https://vuejs-templates.github.io/webpack>

40s

```
~/Projekte/pottjs 40s  
› █
```



Demo

# Weitere Features

- Methods
- Computed properties
- Filters
- Mixins
- Directives
- Props



# Code Splitting

```
<script>

const Greeting = () => import('./components/Greeting')

export default {
  name: 'app',
  data () {
    return {
      surname: ''
    }
  },
  components: {
    Greeting
  }
}

</script>
```

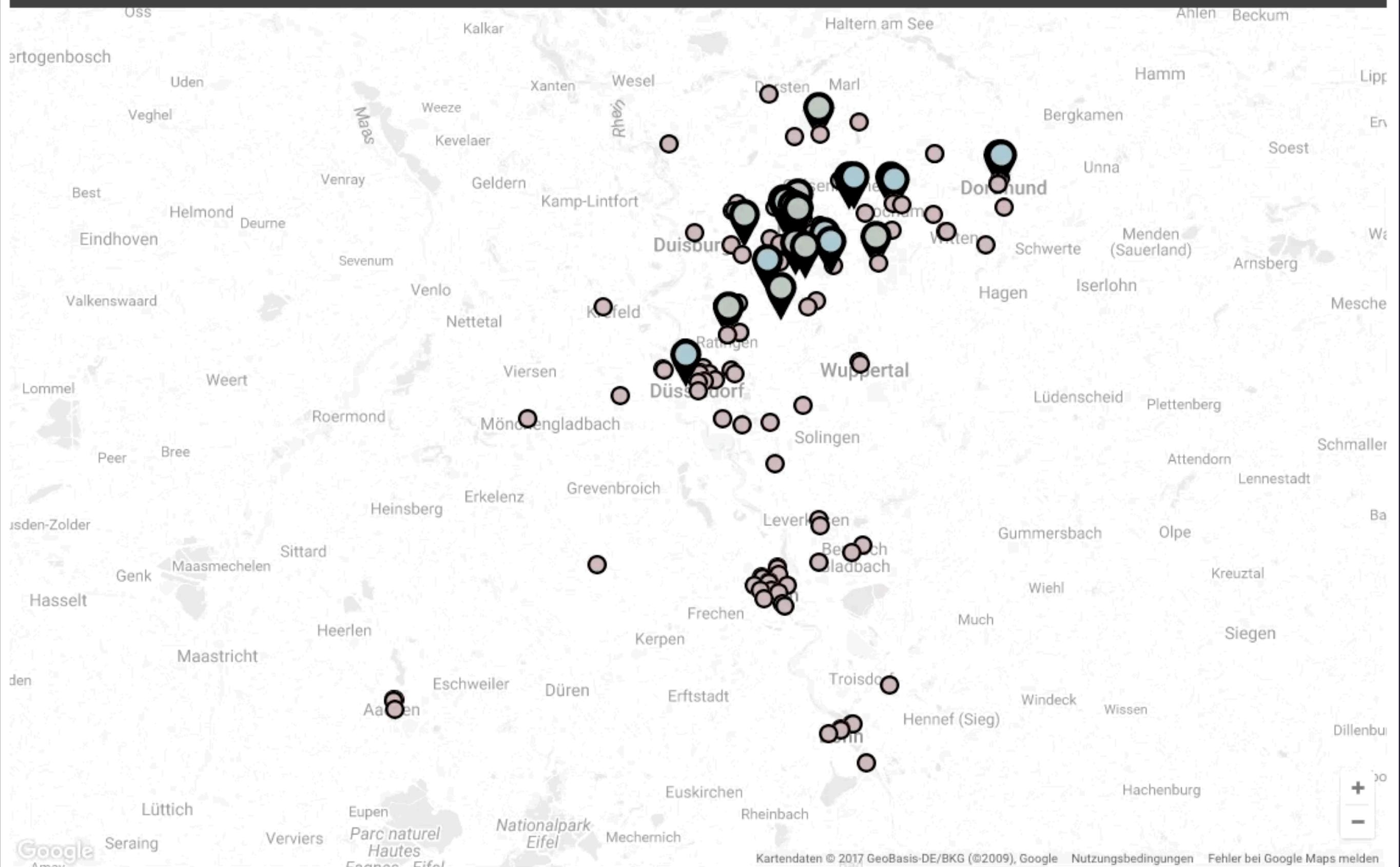
# Integration

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In bestehende System

Back Bord-Filialen Back Bord auf Wochenmärkten Back Bord-Partner

Alle Anzeigen



- Weniger code
- Inkrementell erweiterbar
- Kleine ersetzbare Komponenten<sup>1</sup>

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<sup>1</sup> <https://about.gitlab.com/2016/10/20/why-we-chose-vue/>

Think Big

# Große Projekte



sind komplex

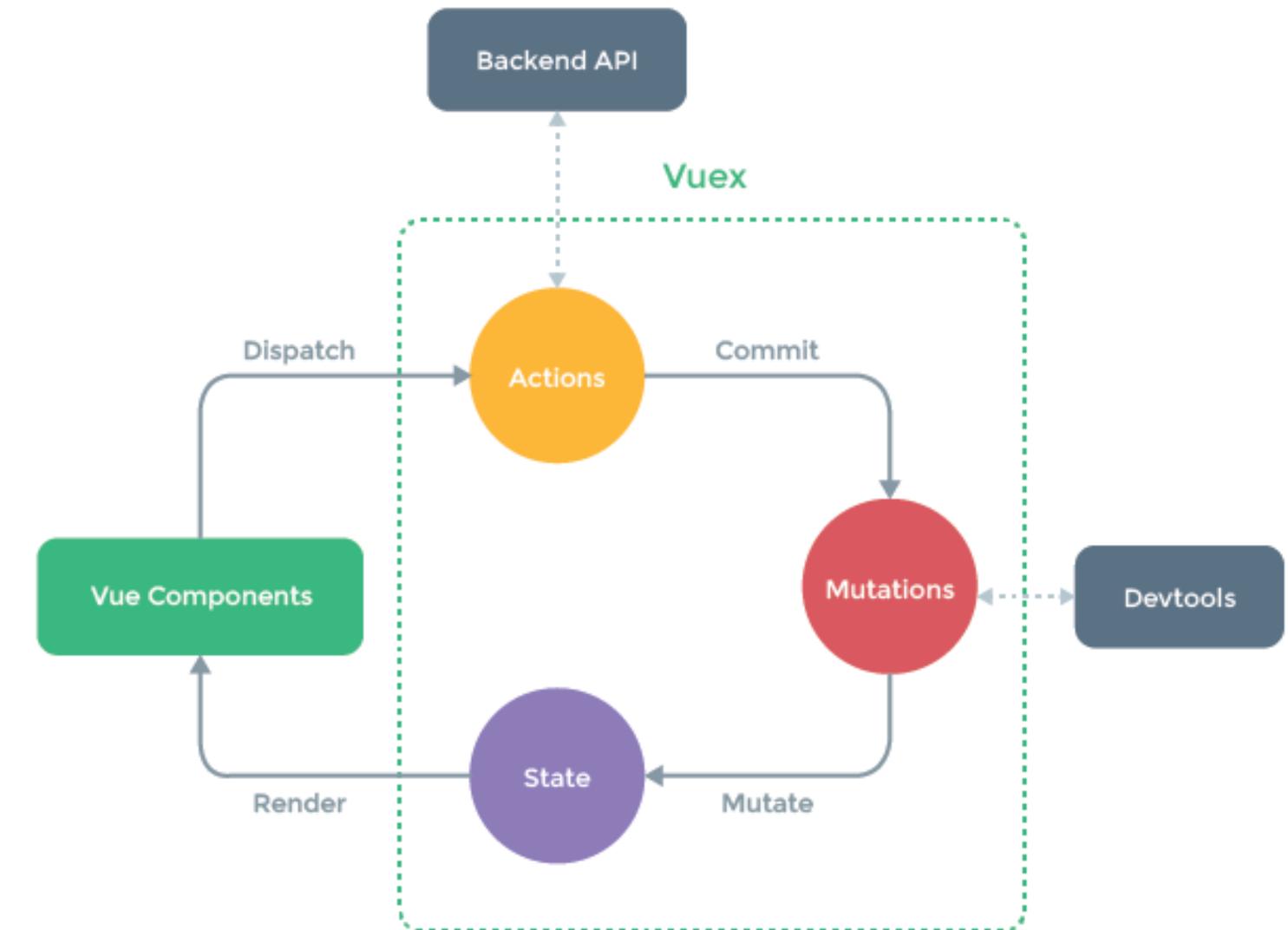


# State Management

# vuex

# Besteht aus

- State
- Mutations
- Actions
- Getters
- Modules





# JSX

```
render: function render(h) {  
  return (  
    <span  
      class={{ 'my-class-3': true }}  
      style={{ cursor: 'pointer' }}  
      on-click={{ this.renderChart }}  
    >  
      { this.msg }  
    </span>  
  )  
,
```



# Render functions

```
5  export default Vue.extend({
6    render: function (createElement) {
7      return createElement(
8        'div',
9        [
10          createElement(
11            'canvas', {
12              attrs: {
13                id: this.chartId,
14                width: this.width,
15                height: this.height
16              },
17              ref: 'canvas'
18            }
19          )
20        ]
21      )
22    },
23  }
```

# redux



# typescript

# Testing

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Jest

Ava

Karma

# Community



# Fragen?

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@apertuerless

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jakub@posteo.de