



Vue Fundamentals

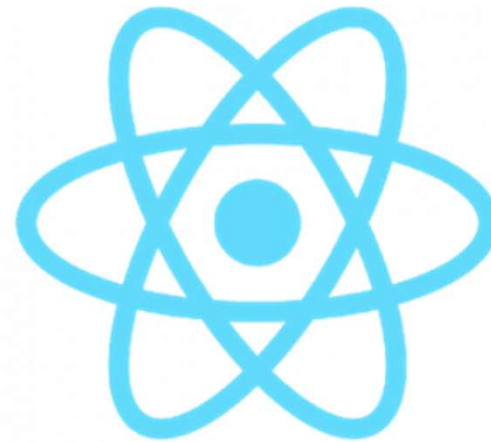
Short recap day #1

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Yesterday

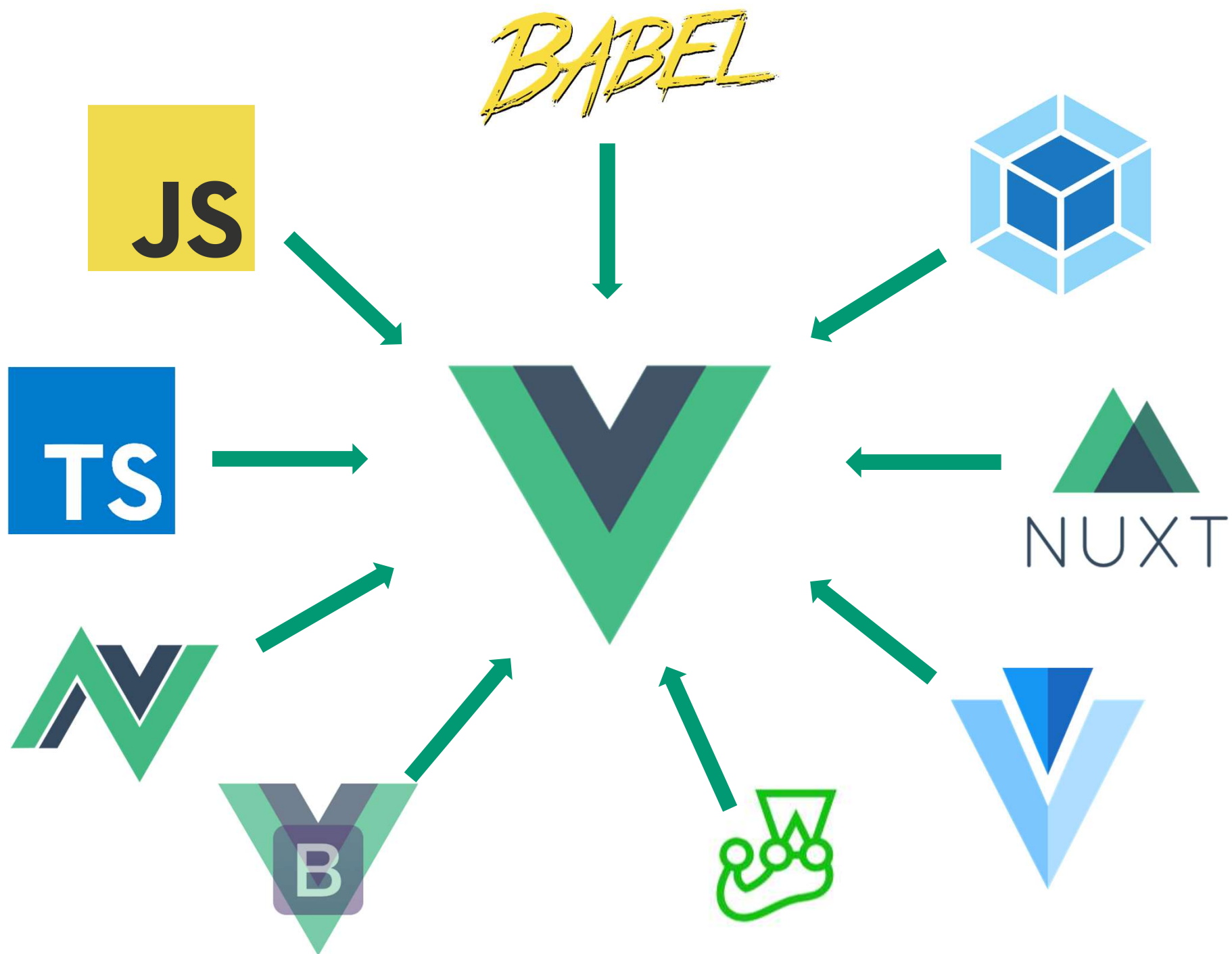
- **Introduction** – overview of the front-end landscape
- Vue **tooling** – installation
 - Node, NPM, Vue CLI, Vue DevTools
- NodeJS **commands**
 - `npm install`
 - `npm run serve`
- Hello World – the **structure and architecture** of Vue apps.

Front-end Frameworks

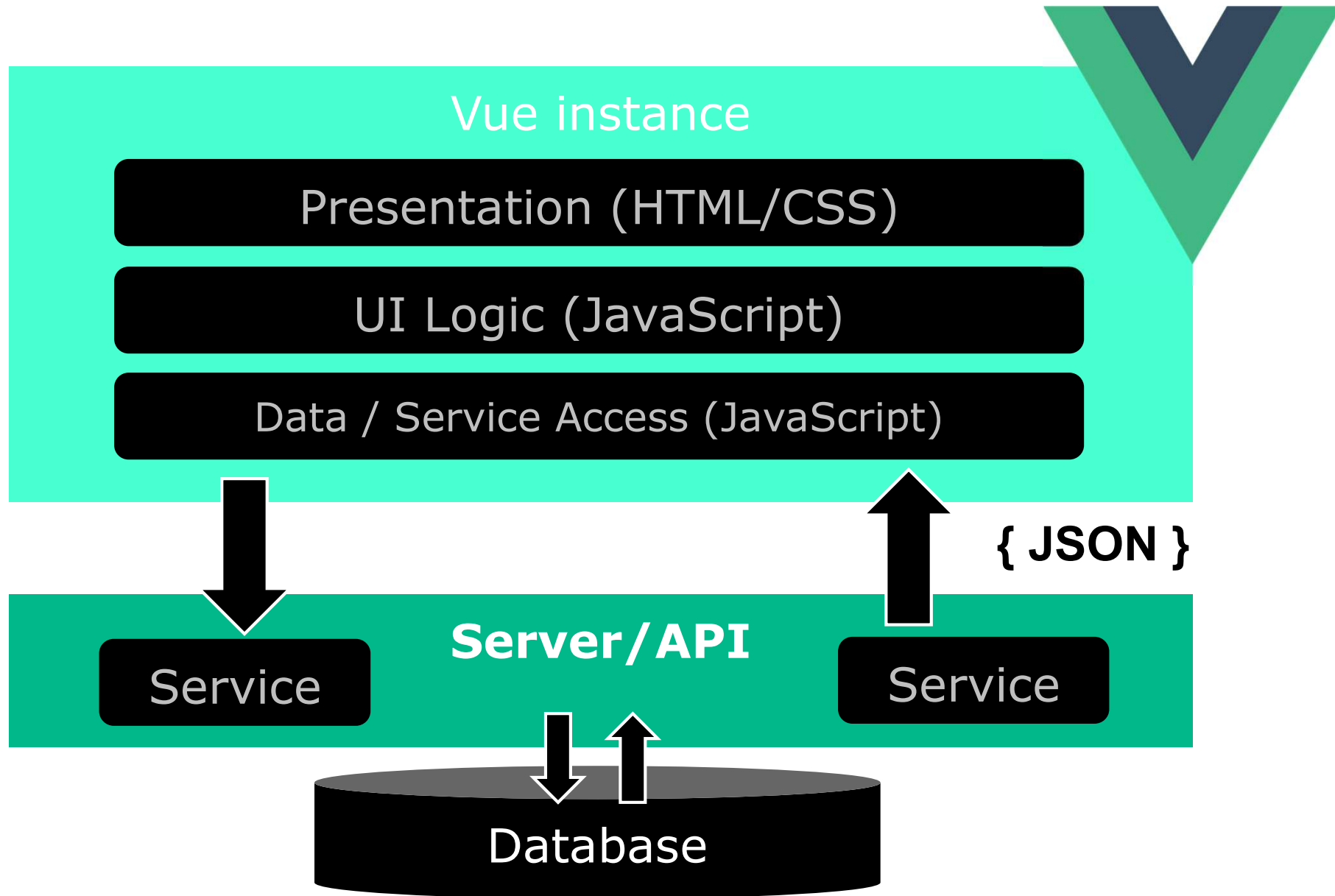


React

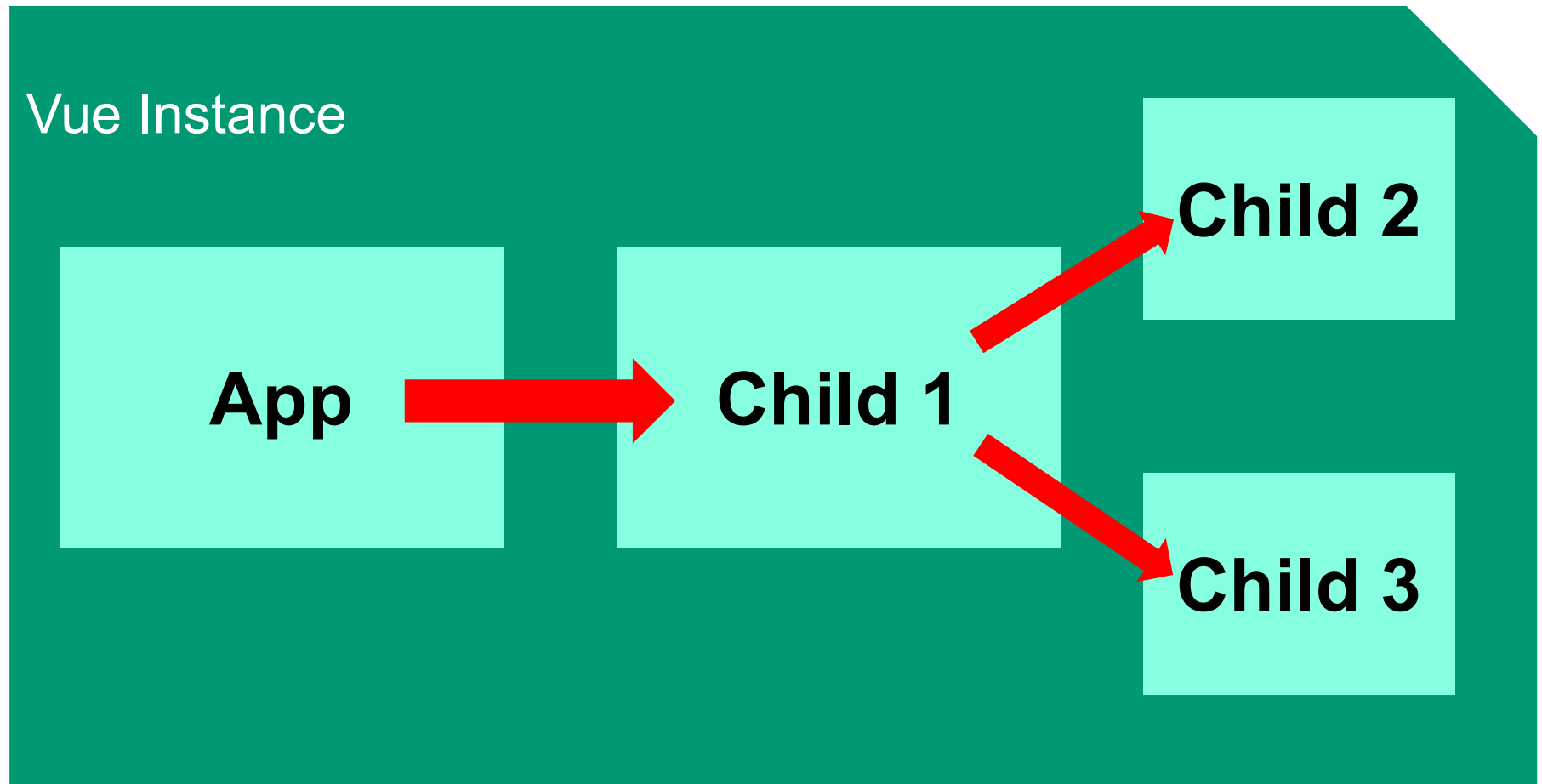




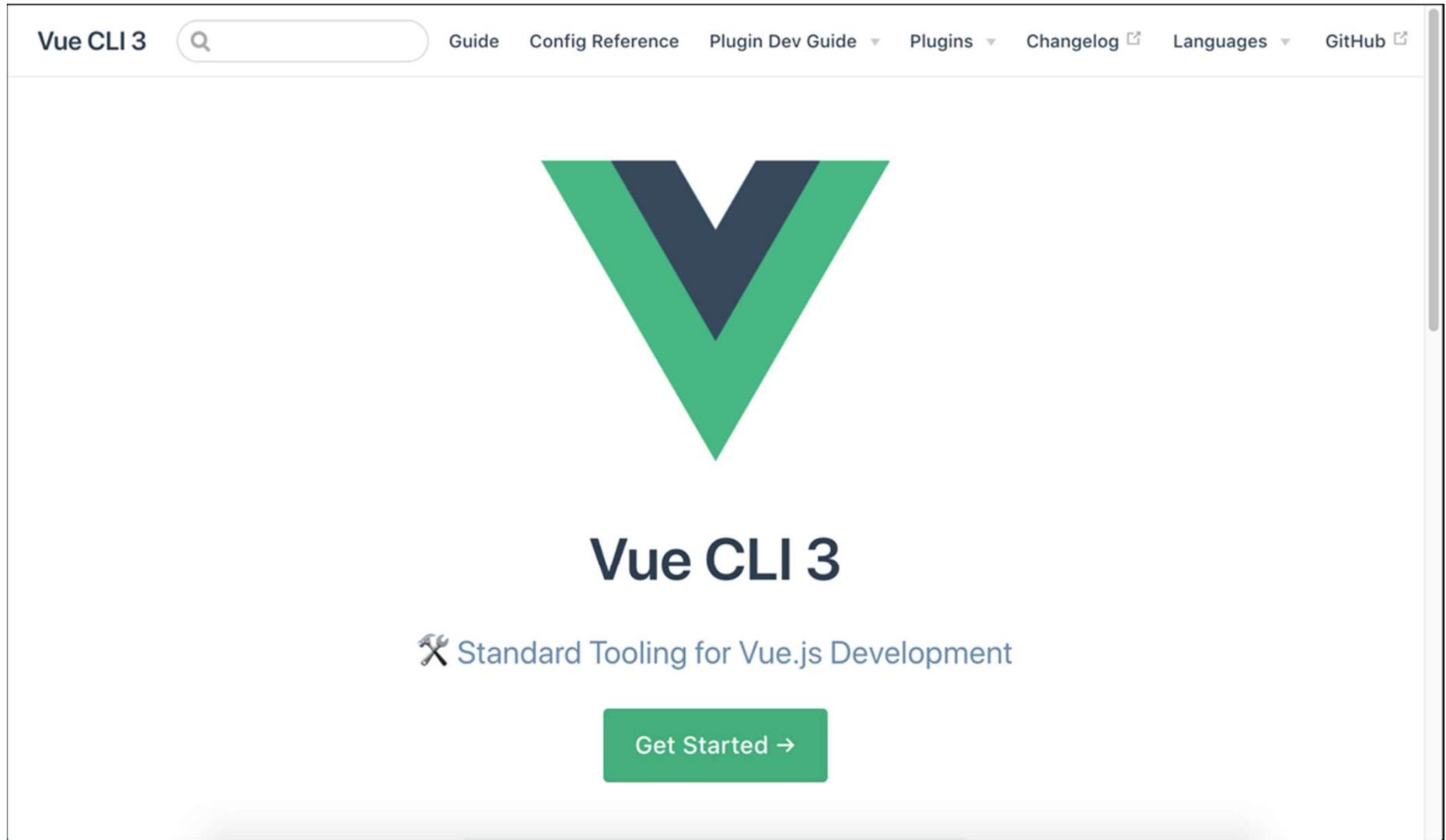
Single Page Application



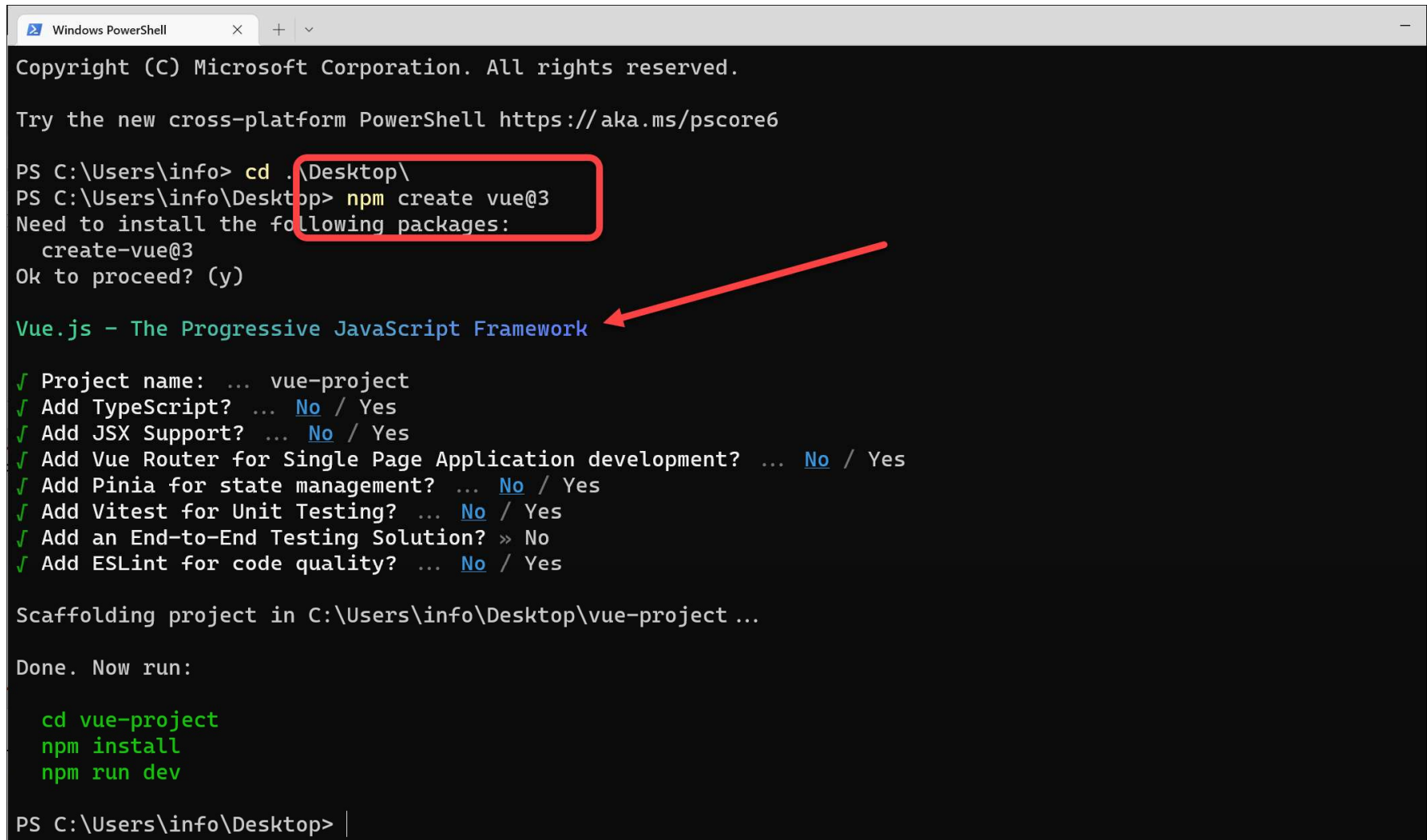
Visual of the Vue instance



cli.vuejs.org



New: Vue 3: npm create vue@3



```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\info> cd .\Desktop\
PS C:\Users\info\Desktop> npm create vue@3
Need to install the following packages:
  create-vue@3
Ok to proceed? (y)

Vue.js - The Progressive JavaScript Framework

✓ Project name: ... vue-project
✓ Add TypeScript? ... No / Yes
✓ Add JSX Support? ... No / Yes
✓ Add Vue Router for Single Page Application development? ... No / Yes
✓ Add Pinia for state management? ... No / Yes
✓ Add Vitest for Unit Testing? ... No / Yes
✓ Add an End-to-End Testing Solution? » No
✓ Add ESLint for code quality? ... No / Yes

Scaffolding project in C:\Users\info\Desktop\vue-project ...

Done. Now run:

  cd vue-project
  npm install
  npm run dev

PS C:\Users\info\Desktop> |
```

Under the hood this uses `Vite` as bundler, instead of `Webpack`

Vue 3 - project



Documentation

Vue's [official documentation](#) provides you with all information you need to get started.



Tooling

This project is served and bundled with [Vite](#). The recommended IDE setup is [VSCode](#) + [Volar](#). If you need to test your components and web pages, check out [Cypress](#) and [Cypress Component Testing](#). More instructions are available in [README.md](#).



Ecosystem

Get official tools and libraries for your project: [Pinia](#), [Vue Router](#), [Vue Test Utils](#), and [Vue Dev Tools](#). If you need more resources, we suggest paying [Awesome Vue](#) a visit.



Community

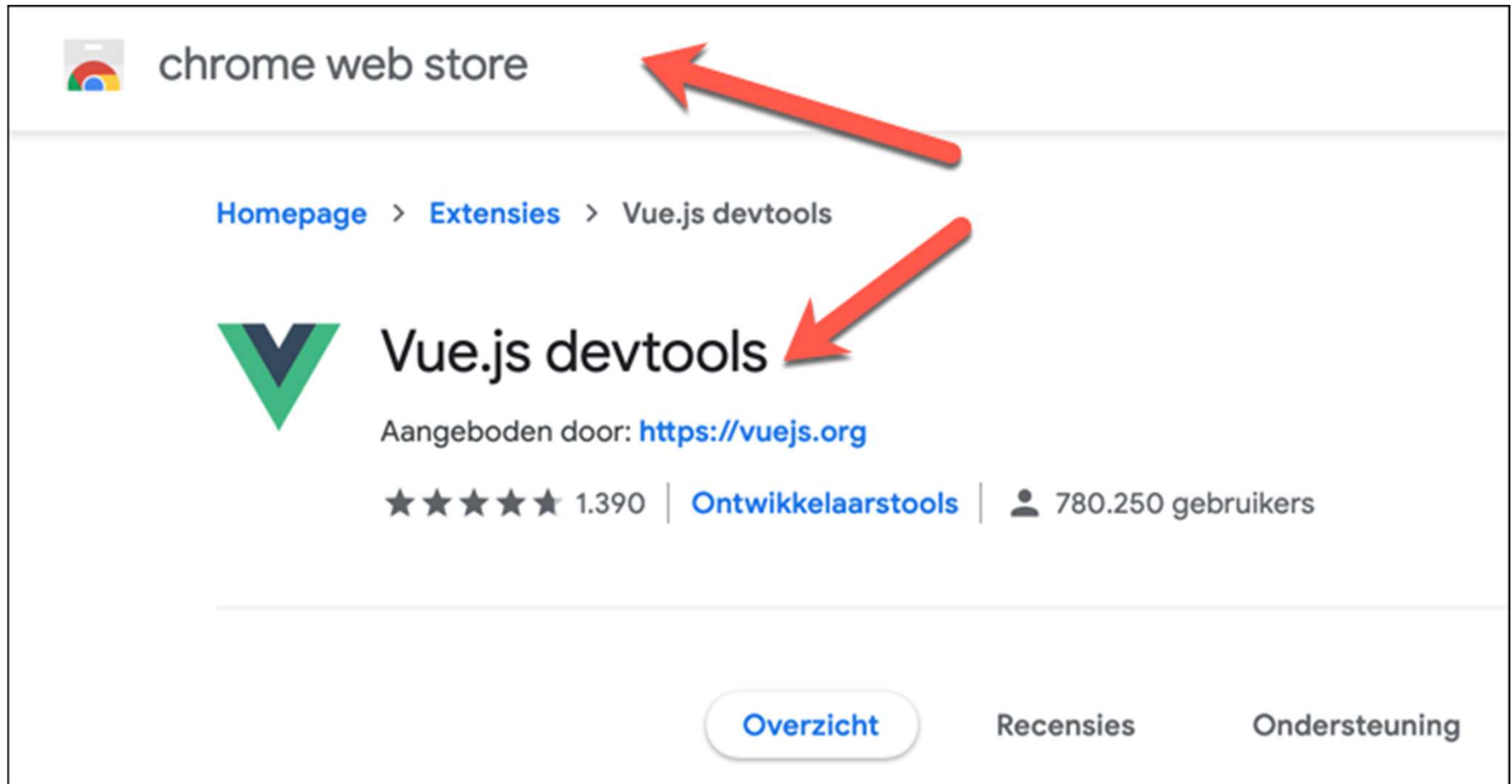
Got stuck? Ask your question on [Vue Land](#), our official Discord server, or [StackOverflow](#). You should also subscribe to [our mailing list](#) and follow the official [@vuejs](#) twitter account for latest news in the Vue world.



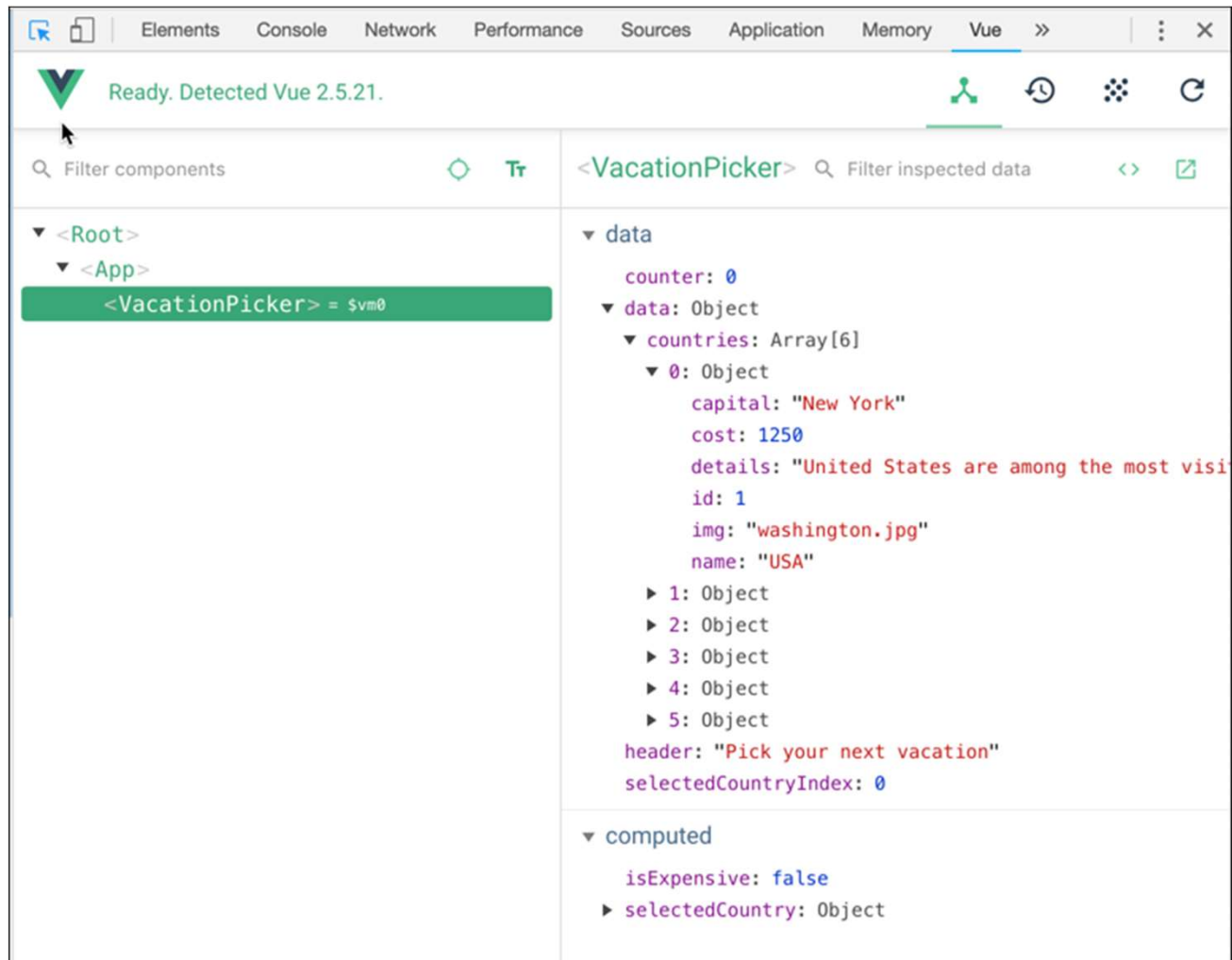
Support Vue

As an independent project, Vue relies on community backing for its sustainability. You can help us by [becoming a sponsor](#).

Vue DevTools – one time installation



See 'Vue' tab in Chrome DevTools



Chrome devtools
extension for analyzing
Vue.js applications.

Inspect application
structure and data

Inspect Vuex store and
state mutations/changes

Also yesterday

- Components:
 - data binding `{{ ... }}`
 - attribute binding `v-bind:` or `:`
 - event binding `v-on:` or `@`
- Computed properties
- Binding to images
- Using `v-model`

App.vue

```
<template>
  <div id="app">
    
    <HelloWorld msg="Welcome to Your Vue.js App" name="Peter"/>
  </div>
</template>
```

Template

```
<script>
import HelloWorld from './components/HelloWorld.vue'

export default {
  name: 'app',
  components: {
    HelloWorld
  }
}
</script>
```

Script

```
<style>
#app {
  font-family: 'Avenir', Helvetica, Arial, sans-serif;
  ...
}
</style>
```

Style

Questions?

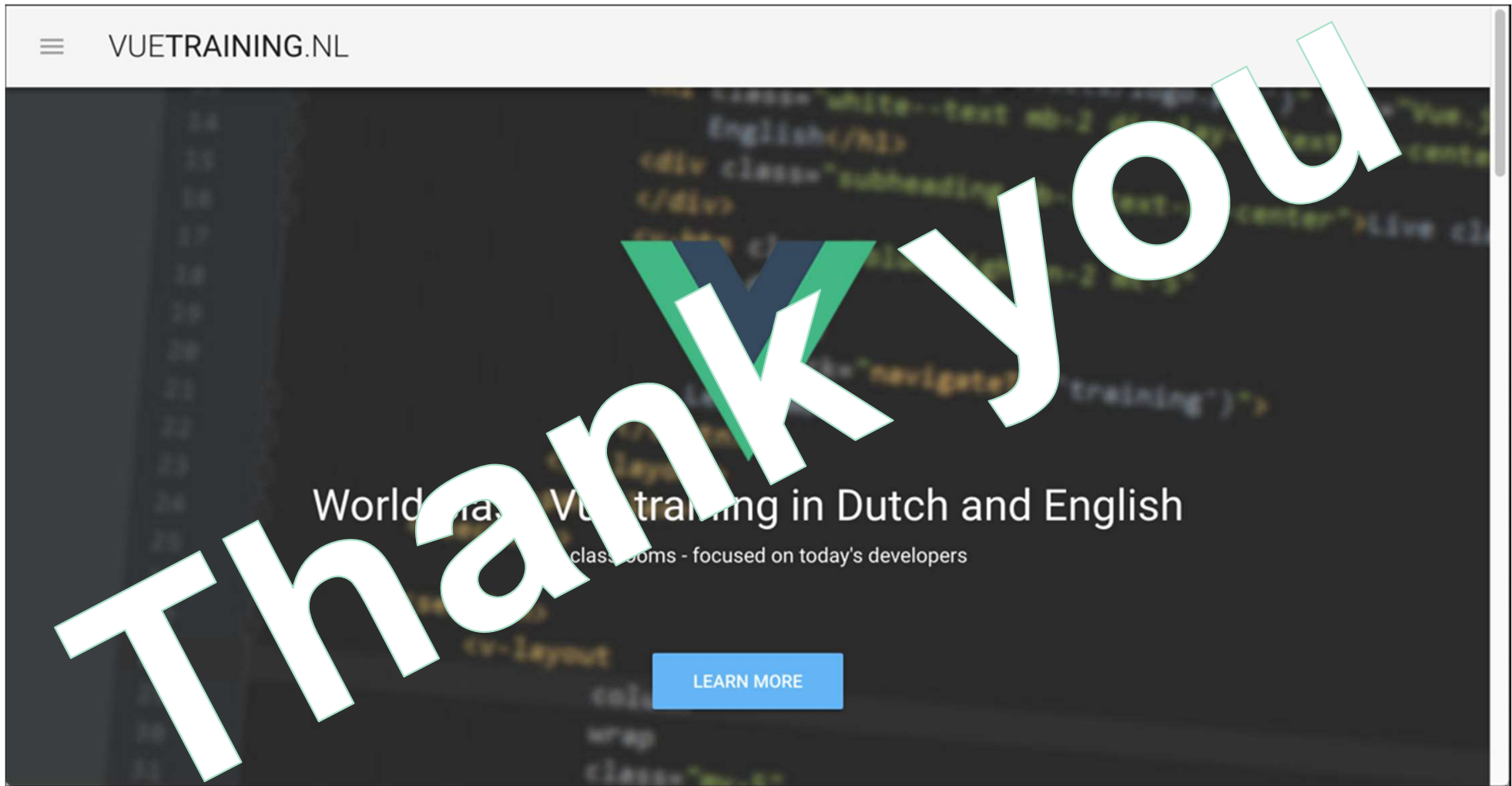
Today – Day 2, (½ day)

- Concept: 1. Lifecycle Hooks
- 2. Communication between components
 - Props and events; using `this.$emit(...)`
 - Slots
- Using 3. HTTP API's
 - Using Live API's
 - Building a small application

If you liked it, endorse

The screenshot shows a LinkedIn profile page. At the top is a dark blue navigation bar with the LinkedIn logo, a search bar, and icons for Home, My Network (with a red notification badge), Jobs, Messaging, Notifications, Me, and Work. Below the navigation bar, the profile section is visible. It includes a header with the text 'duursporten (lopen, zwemmen, fietsen, roeien, schaatsen). Laatste jaar in combinatie met studie Bewegingswetenschappen, Rijksuniversiteit Groningen (RUG).', a 'See more education' link, and a blue button labeled 'Add new profile section'. The 'Featured Skills & Endorsements' section is highlighted with a red oval. It lists three skills: 'Teaching' (3 endorsements from 'Youri Pattynama and 2 connections'), 'TypeScript' (3 endorsements from 'Youri Pattynama and 2 connections'), and 'Angular' (2 endorsements from 'Momen El Kamri and 1 connection'). Below these is a 'See 26 more skills' link. At the bottom of the profile section is the 'Recommendations' section with an 'Ask to be recommended' link. On the right side of the profile, there is a 'Messaging' button and a settings icon.

<https://www.linkedin.com/in/peterkassenaar/>



www.vuetraining.nl/