



Vue Fundamentals

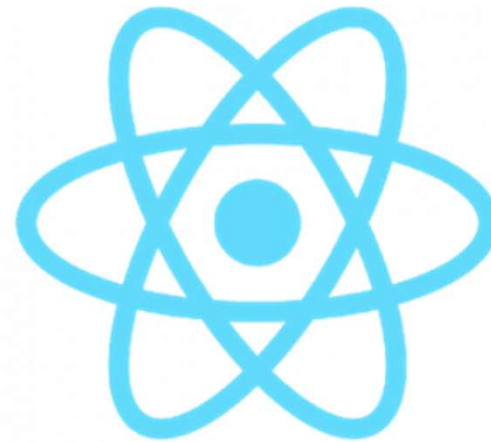
Short recap day #1

Peter Kassenaar –
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Yesterday

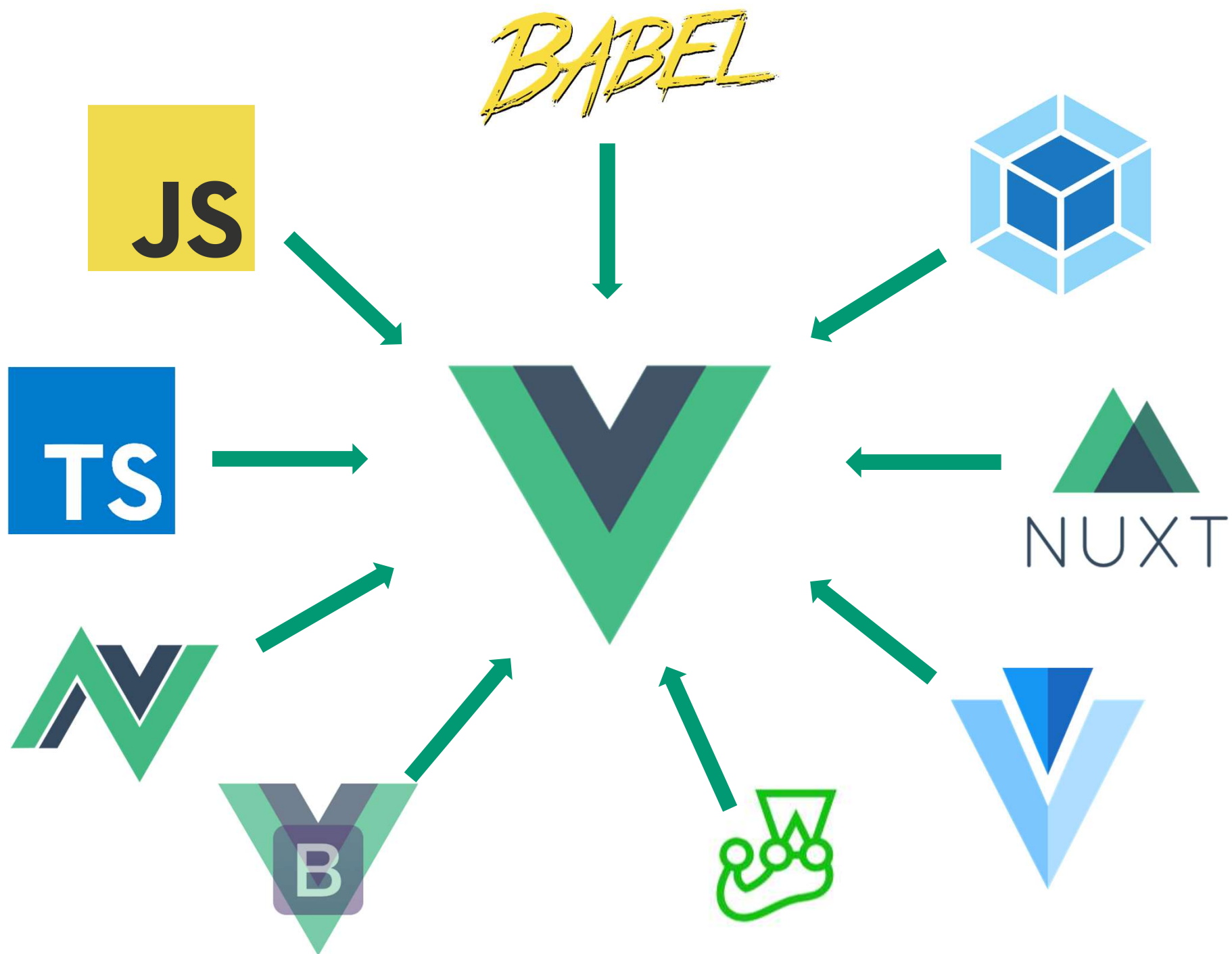
- **Introduction** – overview of the front-end landscape
- Vue **tooling** – installation
 - Node, NPM, Vue CLI, Vue DevTools
- NodeJS **commands**
 - `npm install`
 - `npm run serve`
- Hello World – the **structure and architecture** of Vue apps.

Front-end Frameworks

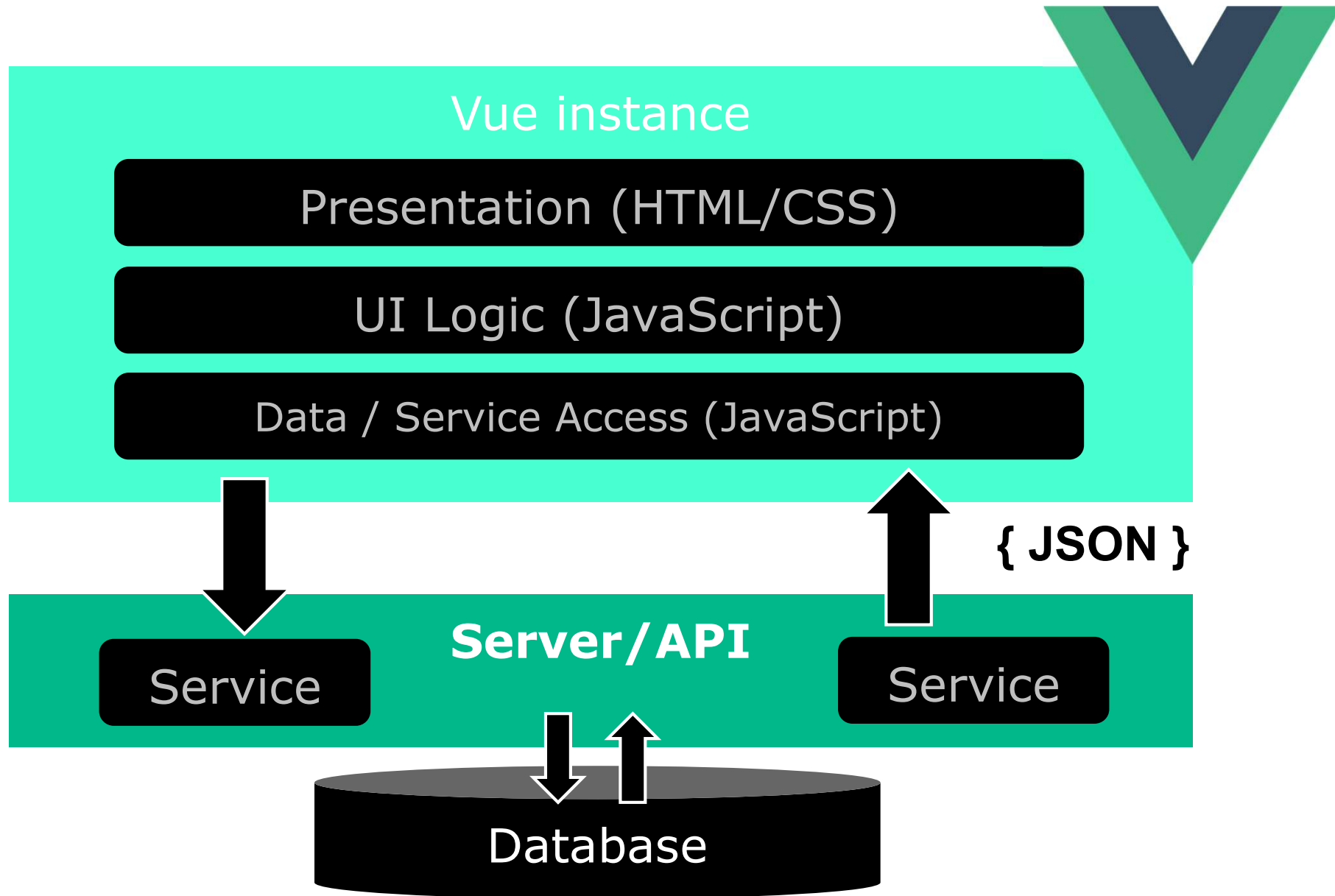


React

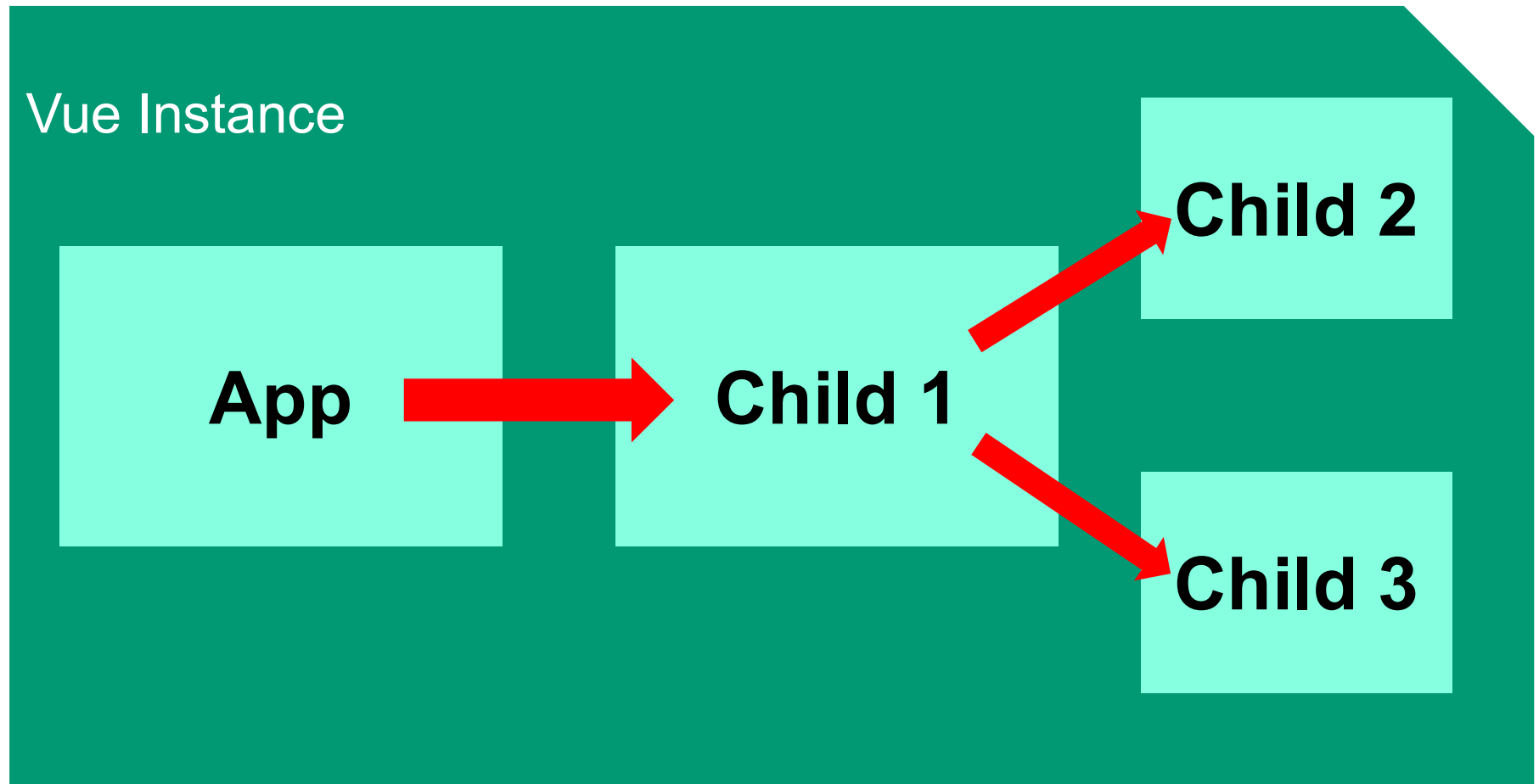




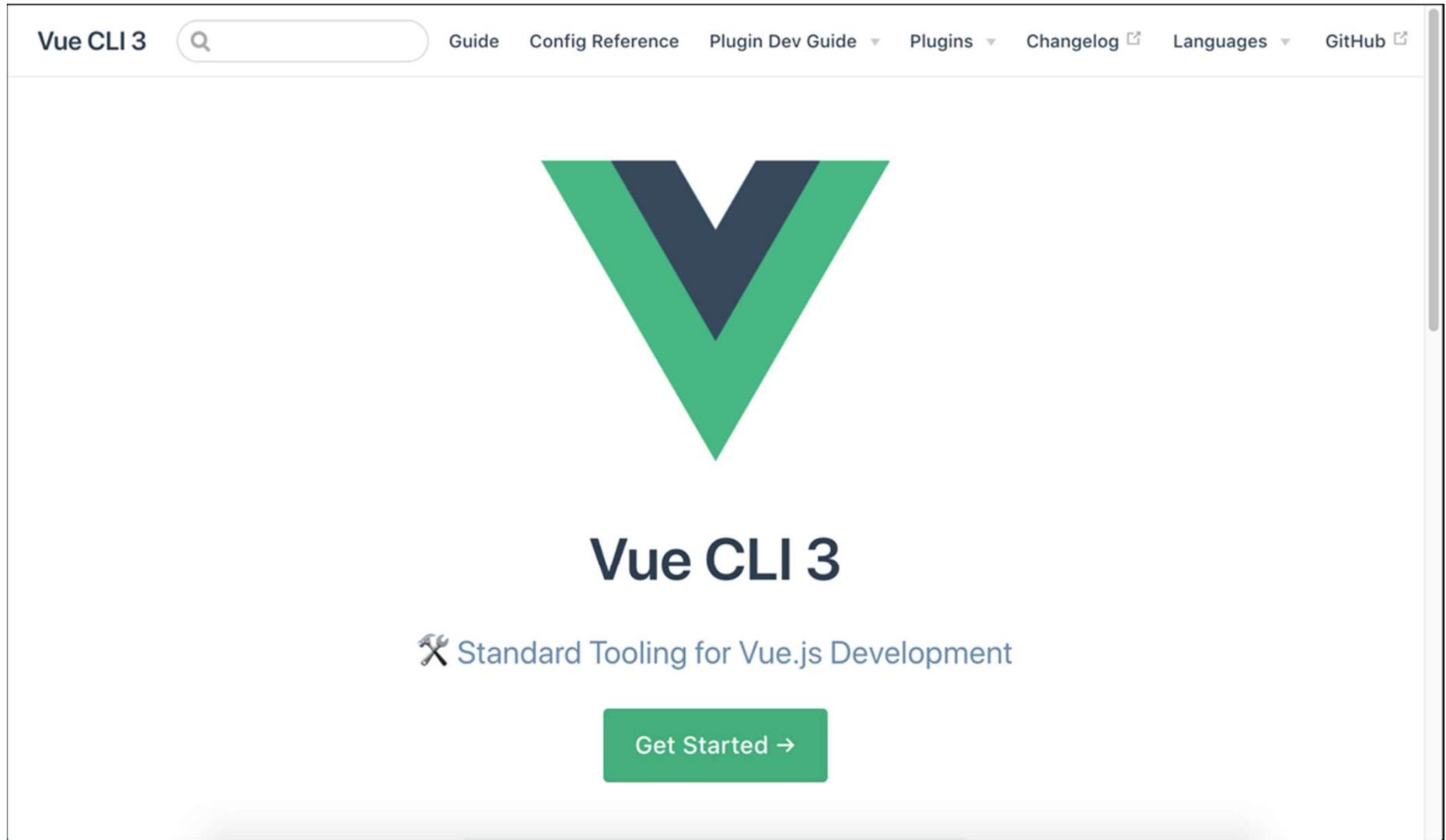
Single Page Application



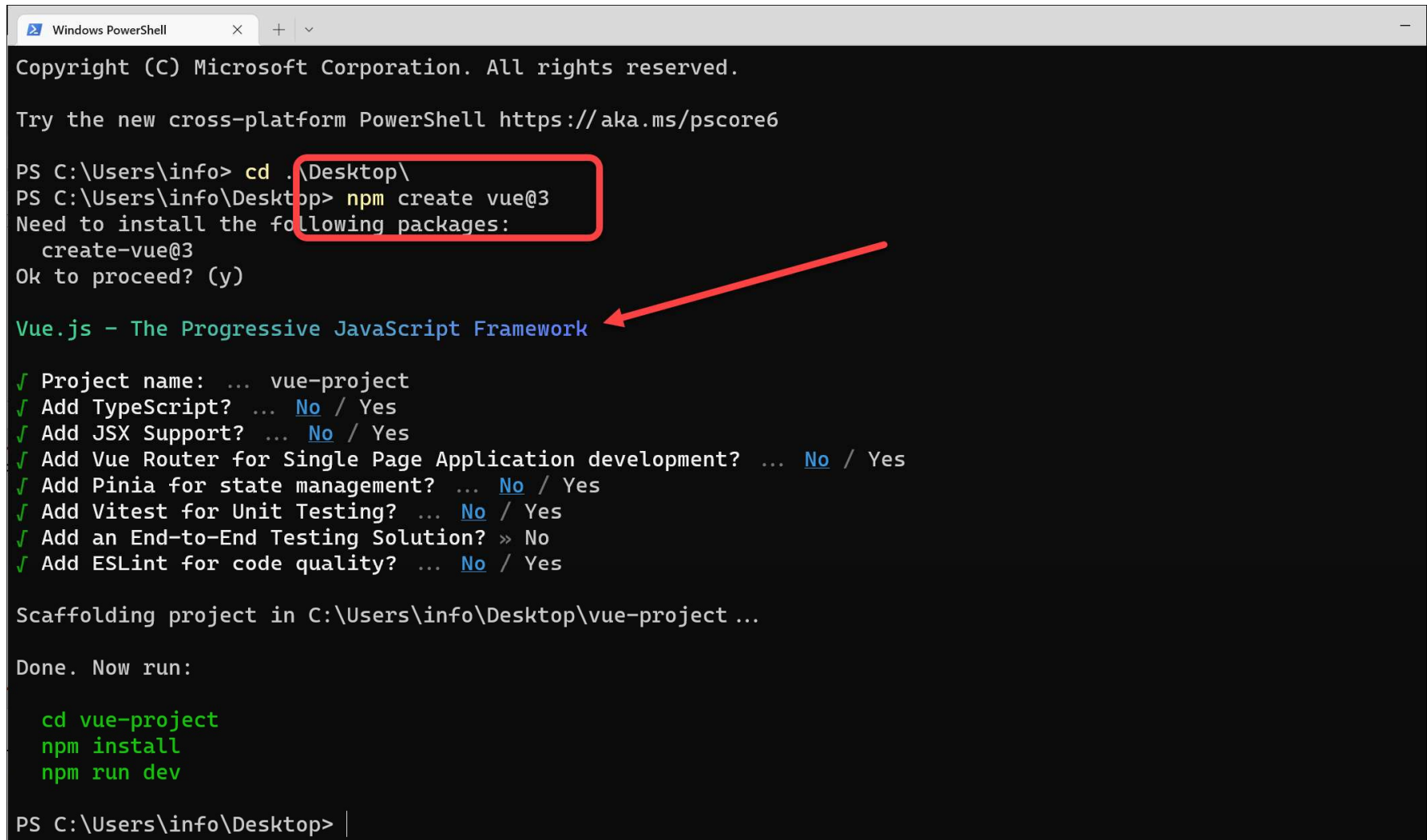
Visual of the Vue instance



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

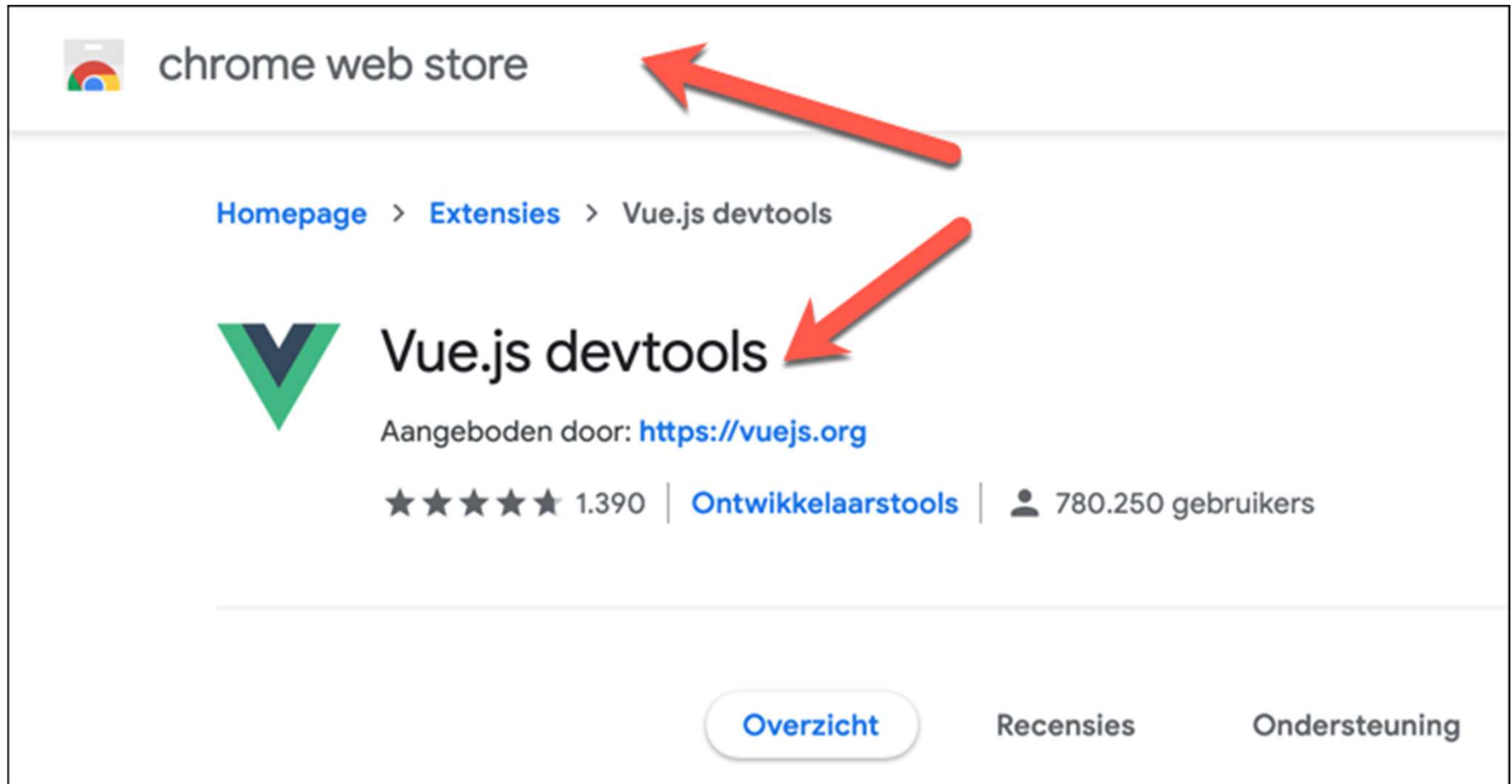
Got stuck? Ask your question on [Vue Land](#), our official Discord server, or [StackOverflow](#). You should also subscribe to [our mailing list](#) and follow the official [@vuejs](#) twitter account for latest news in the Vue world.



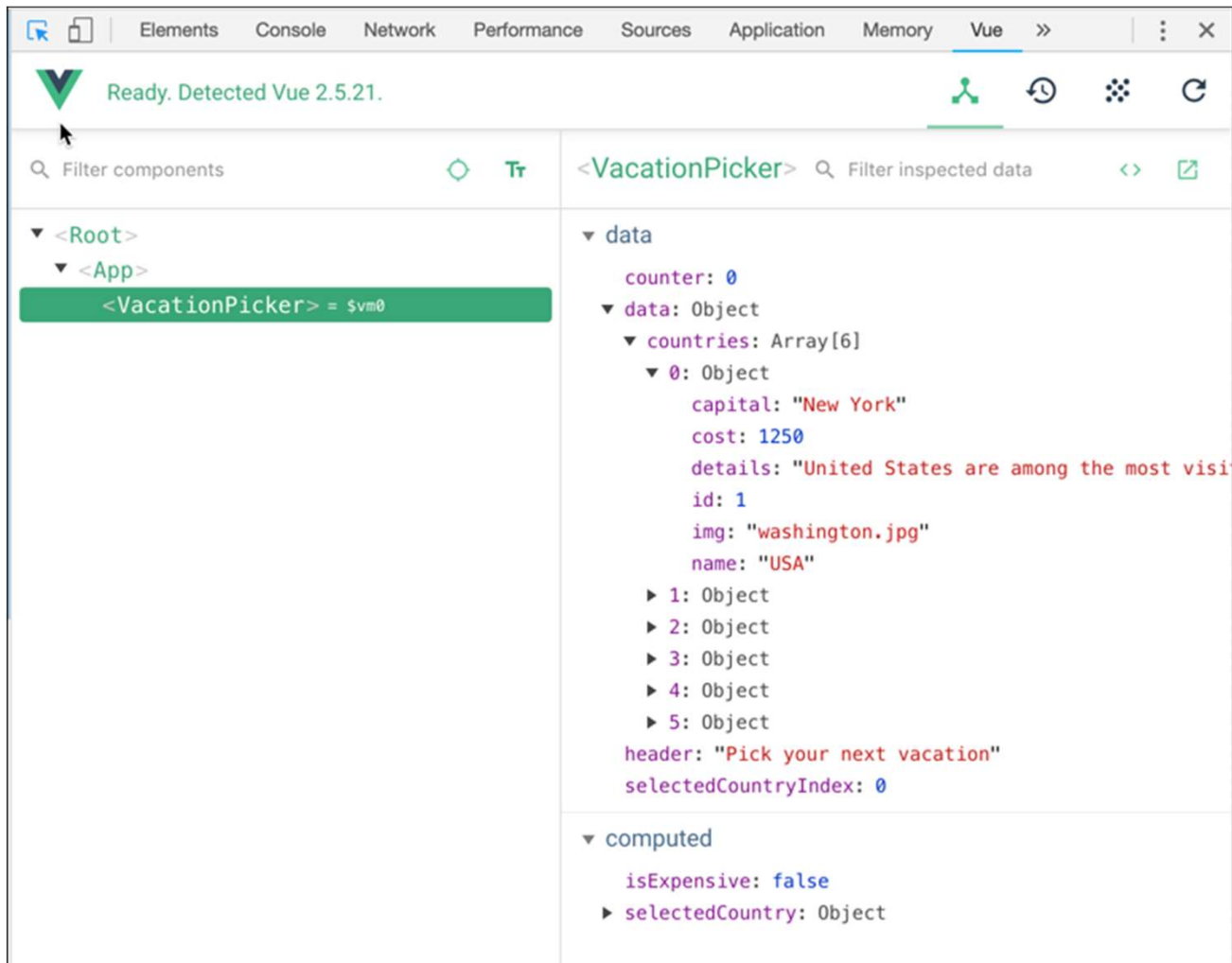
Support Vue

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

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

- Data binding #4, using **v-model**
- **Communication** between components
 - Props and events; using `this.$emit(...)`
 - Slots
- Using **HTTP** API's
- State Management with **Vuex**
 - Simple State Management
 - Modules
- [time permitting: Routing]

If you liked it, endorse

The screenshot shows a LinkedIn profile page. The top navigation bar includes the LinkedIn logo, a search bar, and icons for Home, My Network (with a red notification badge), Jobs, Messaging, Notifications, Me, and Work. The main content area on the left shows a section for education with the text 'duursporten (lopen, zwemmen, fietsen, roeien, schaatsen). Laatste jaar in combinatie met studie Bewegingswetenschappen, Rijksuniversiteit Groningen (RUG).'. Below this is a blue button labeled 'Add new profile section'. The 'Featured Skills & Endorsements' section is circled in red and contains 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). A link 'See 26 more skills' is at the bottom of this section. Below the skills section is a 'Recommendations' section with a link 'Ask to be recommended'. On the right side, there is a 'Messaging' button with a green dot and a settings icon.

LinkedIn profile page showing the 'Featured Skills & Endorsements' section circled in red.

The profile includes a search bar, navigation icons (Home, My Network, Jobs, Messaging, Notifications, Me, Work), and a 'Try Premium for Free' button.

The main content area displays a section for education (duursporten) and a button to 'Add new profile section'.

The 'Featured Skills & Endorsements' section lists skills and endorsements:

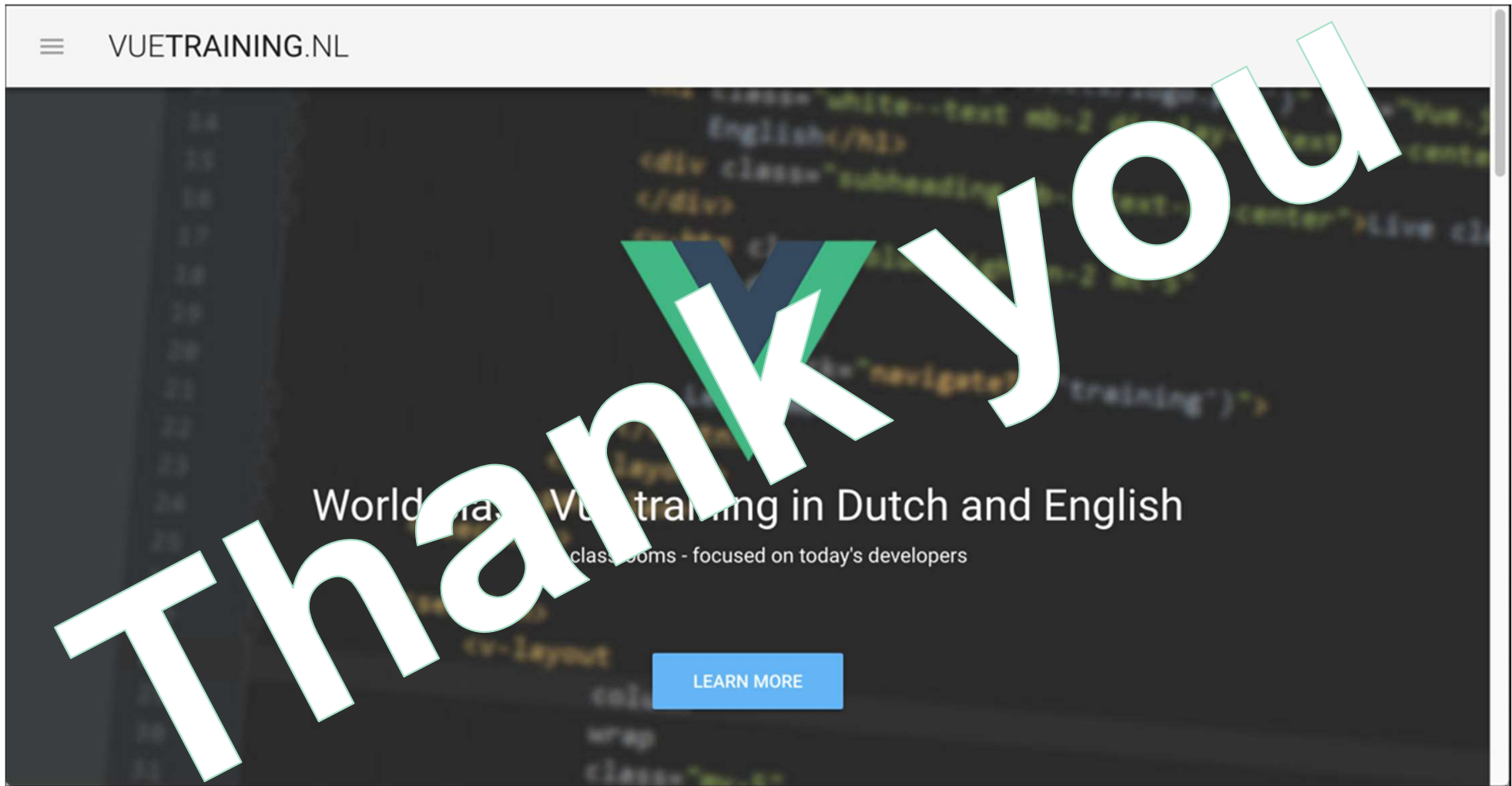
- Teaching · 3: Youri Pattynama and 2 connections have given endorsements for this skill
- TypeScript · 3: Youri Pattynama and 2 connections have given endorsements for this skill
- Angular · 2: Momen El Kamri and 1 connection have given endorsements for this skill

A link 'See 26 more skills' is available below the skills list.

The bottom section shows 'Recommendations' and a link 'Ask to be recommended'.

The right sidebar contains a 'Messaging' button and a settings icon.

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



www.vuetraining.nl/