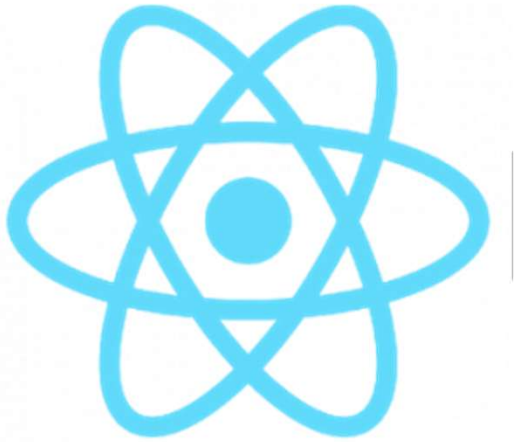
Vue Fundamentals

Short recap day #1

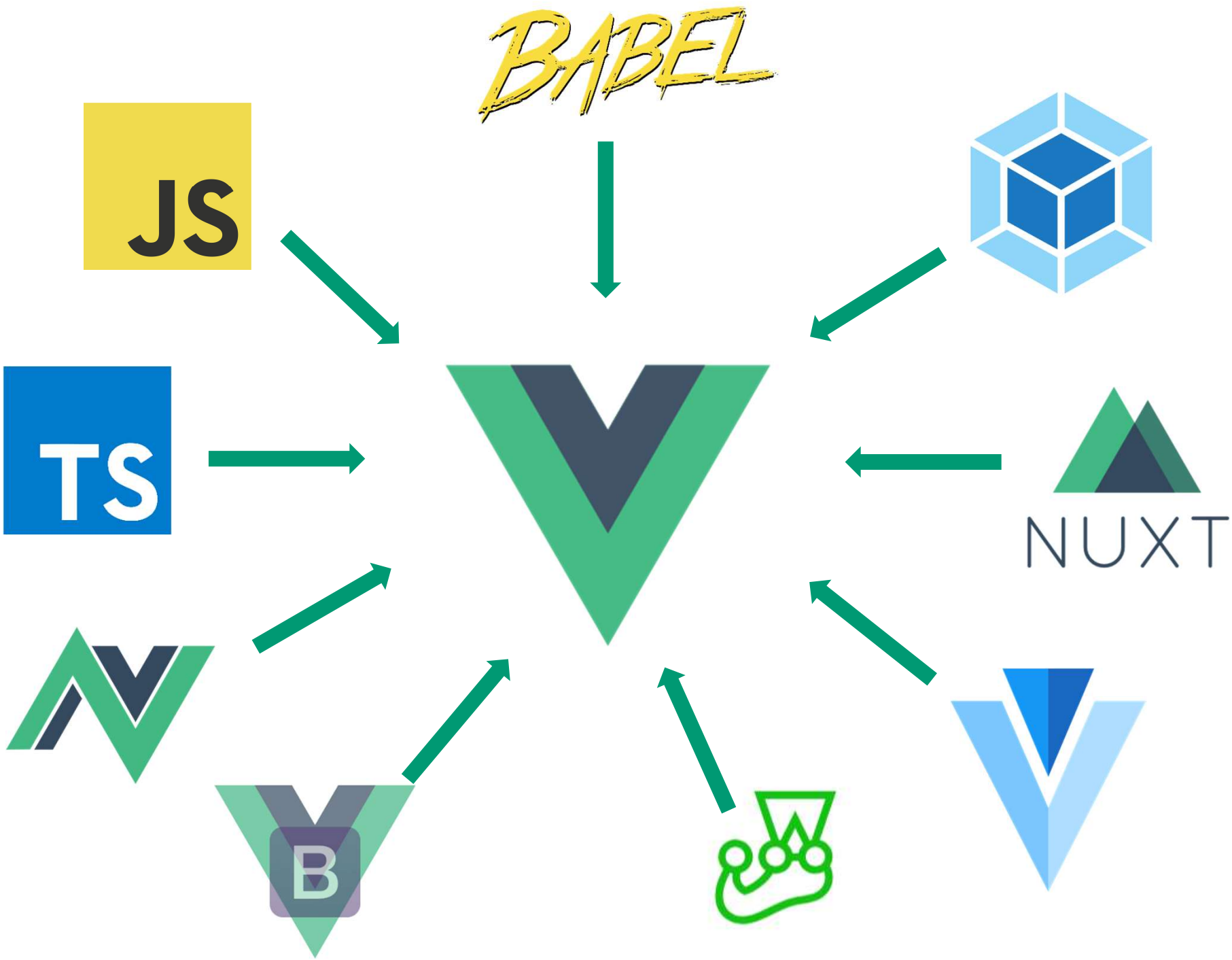
Peter Kassenaar –
info@kassenaar.com

Yesterday - Front-end Frameworks

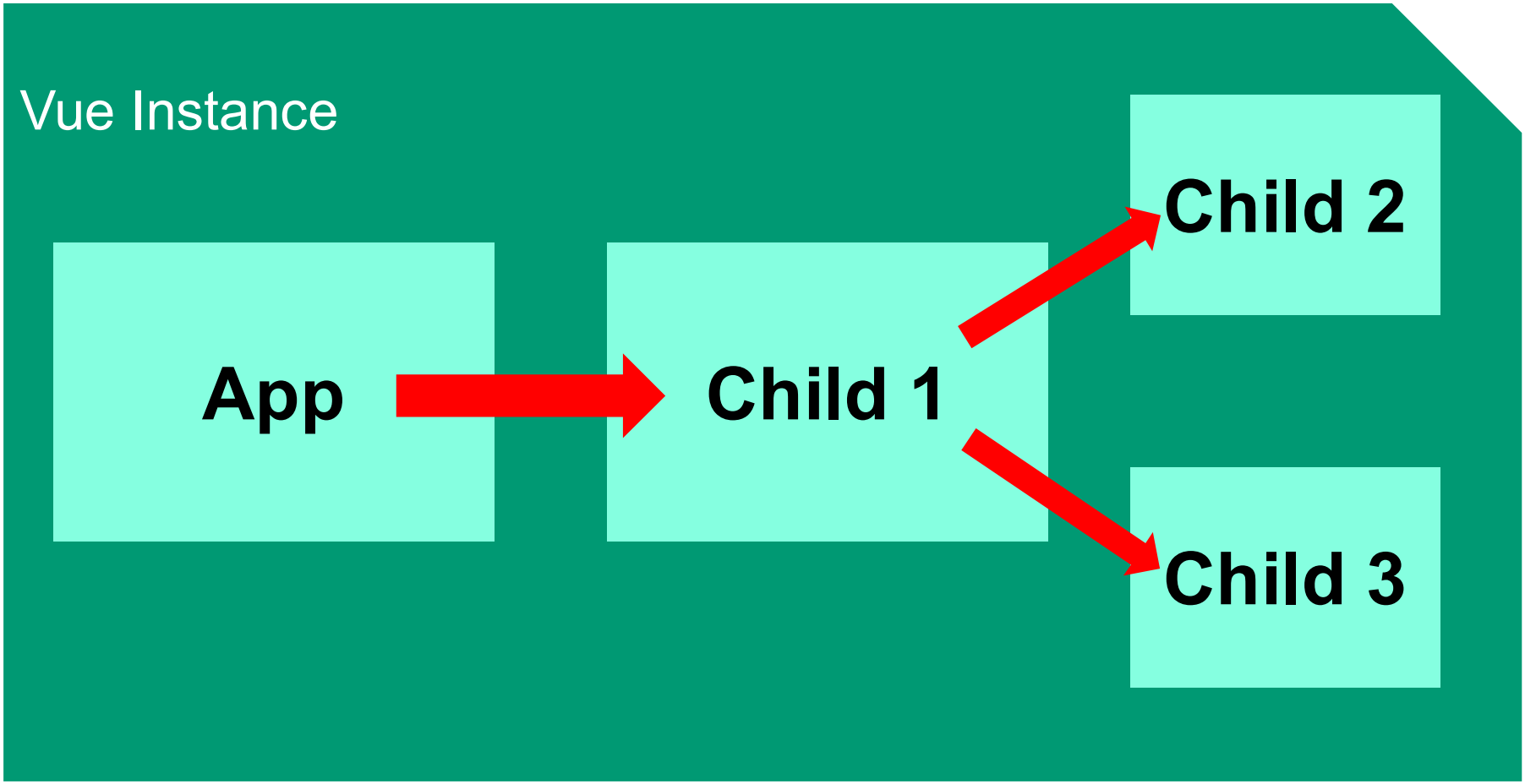


Zooming in on Vue

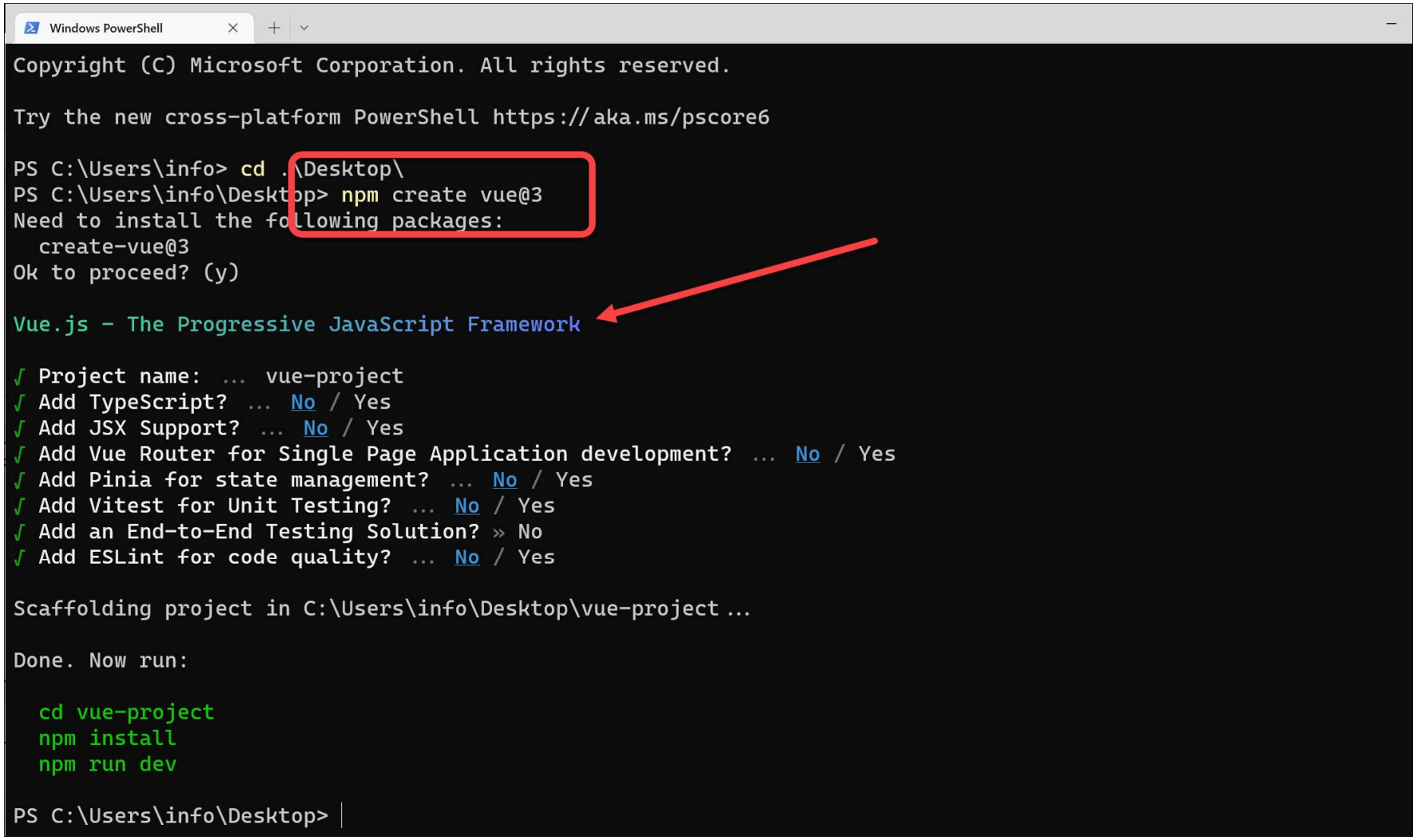
- Introduction – overview of the front-end landscape
- Vue tooling – installation
  - Node, NPM, create-vue, Vue DevTools
- NodeJS commands
  - `npm install, npm run dev`
- Hello World; structure and architecture of Vue apps.
- Options API vs. Composition API
  - `{ …, …}`
  - `<script setup>`


BABEL
JS
TS
NUXT

Visual of the Vue instance



Vue 3: `npm create vue@latest`



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.

App.vue

```
<template>
    <div class="wrapper">
      <HelloWorld msg123="Hello World!" name="Joris" />
    </div>
</template>
```

Template

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

Script

```
<style scoped>
  .wrapper {
    line-height: 1.5;
  }, …

</style>
```

Style

Vue Concepts:

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

- Using `v-model`
  - Textboxes, checkboxes, (selection lists, radio buttons, texarea)
- Lifecycle methods
  - `onMounted()`
  - `onUpdated()`
  - `onUnmounted()`

Important: Learn Concepts instead of Code

Questions?

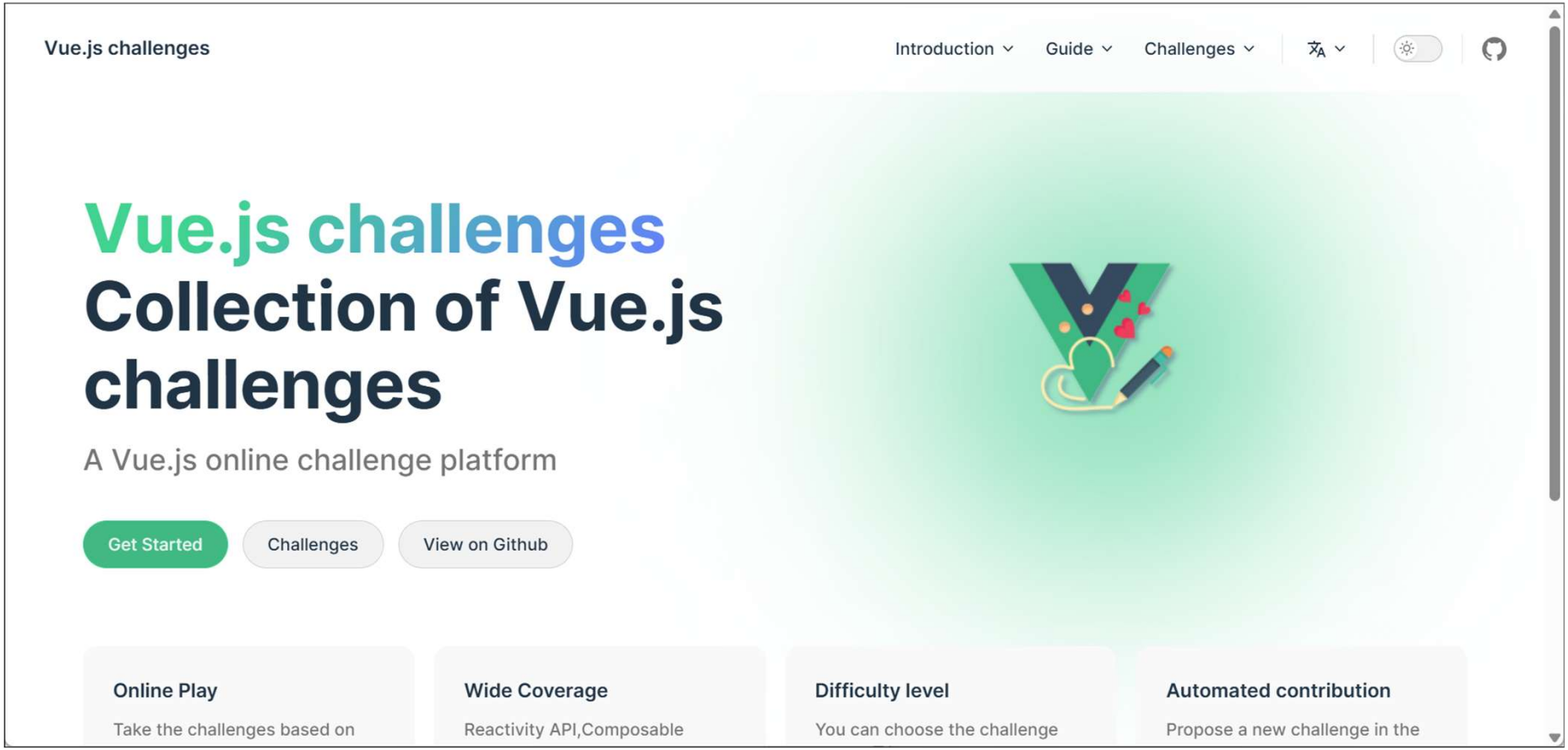
Today – Day 2, (½ day)

- Communication between components
  - Props and events; using `emit(…)`
- Vue Router
  - Routing to different pages / components)
- Using HTTP API's

  Using Live API's

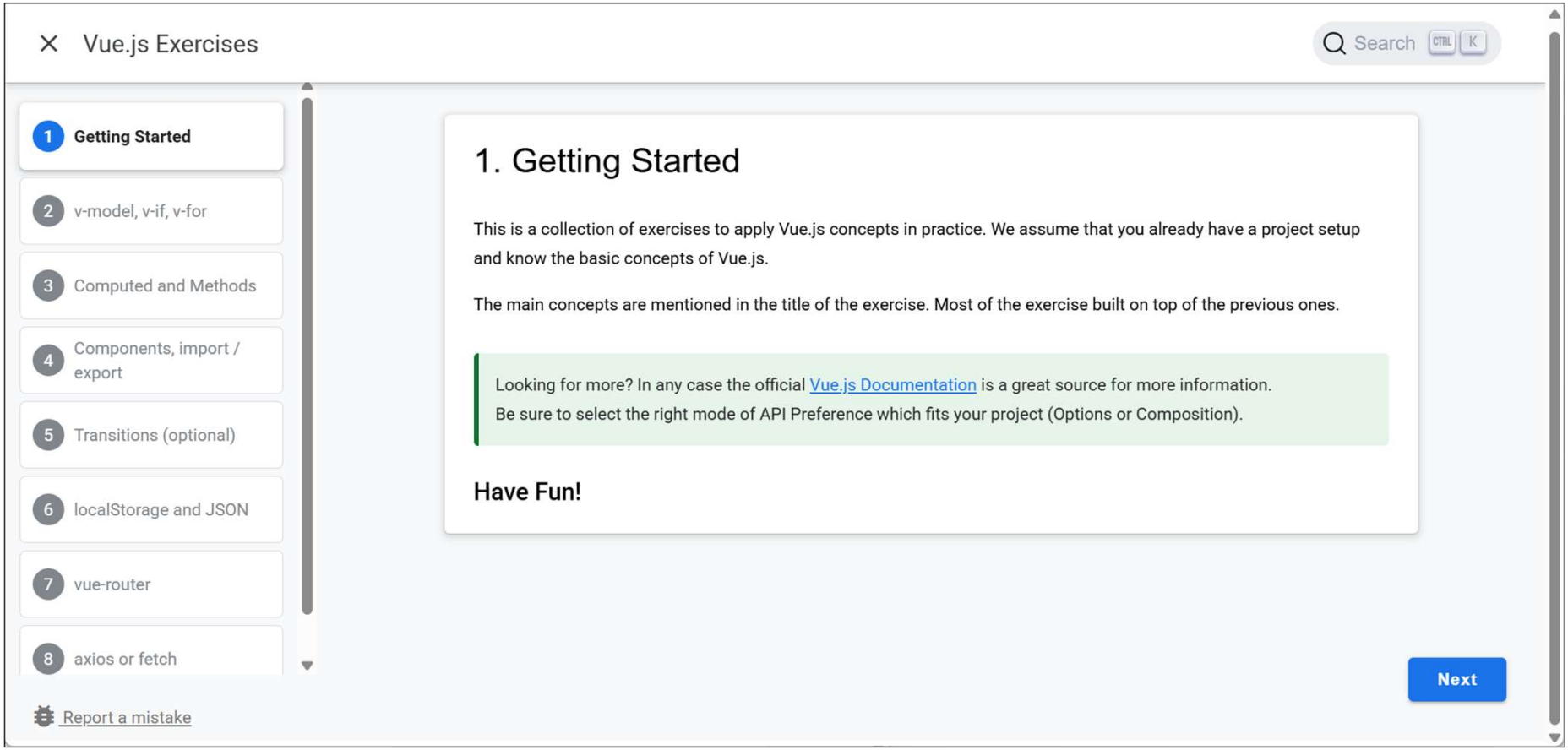
  Building a small application

Vue Further practice



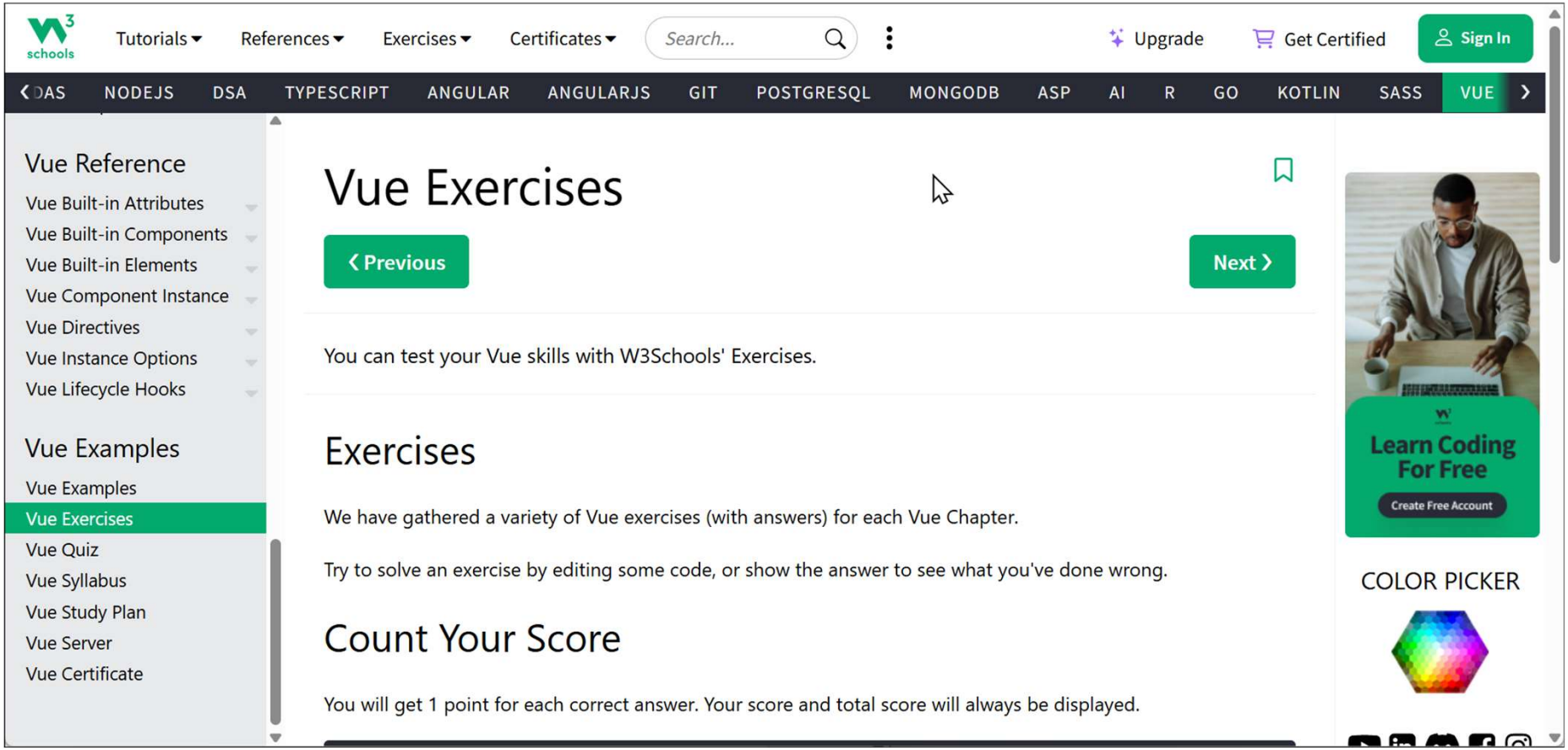
https://vuejs-challenges.netlify.app/

Vue.js Exercises



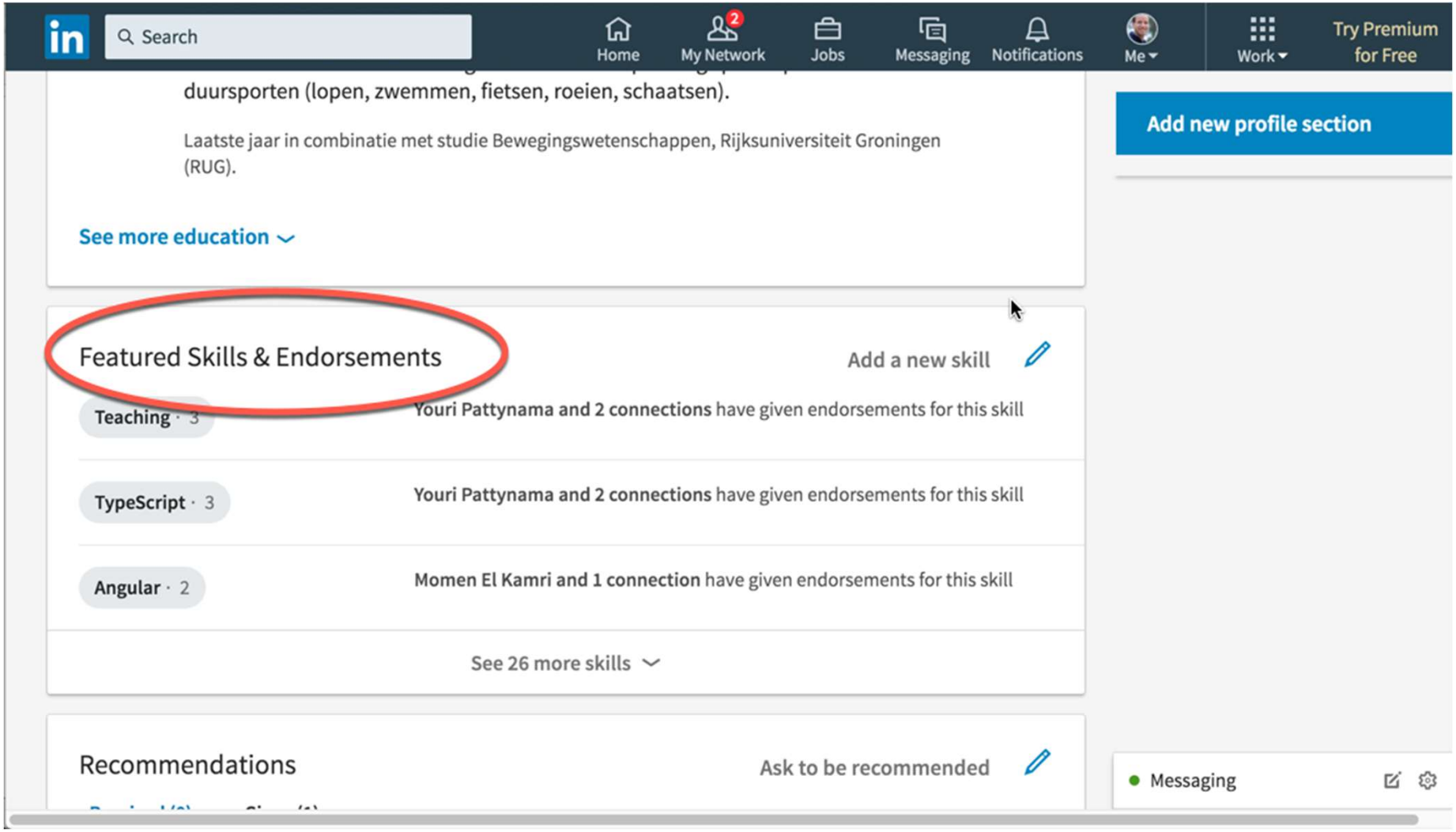
https://learn.fritscher.ch/codelabs/vue-exercises/index.html

W3 Schools – Vue.js



https://www.w3schools.com/vue/vue_exercises.php

If you liked it, endorse



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

Thank you
www.eduvision.nl