



Vue Fundamentals

Short recap day #1



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Reminder...

Hoe ziet een opleiding er uit?



Symptomen? Blijf thuis!

Heb je symptomen die mogelijk duiden op CoViD-19, blijf zeker thuis. Indien je op de opleiding verschijnt met symptomen, word je naar huis gestuurd.



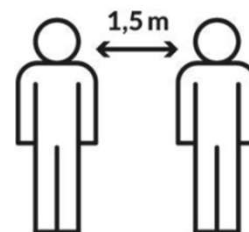
Mondmaskers verplicht

Het gebruik van mondmaskers is **verplicht**. Enkel waar voldoende afstand gegarandeerd kan worden, is het dragen van een mondmasker optioneel. Neem deze dus zeker mee naar de opleiding.



Handhygiëne

Voor de les begint en voor de lunchpauze ben je verplicht om je handen te wassen. Er is voldoende water en zeep en/of handgel beschikbaar.



Afstand

Elke opleiding vindt plaats in een locatie die ruim genoeg is om voldoende fysieke afstand te kunnen houden. Hou altijd minstens **1,5 meter afstand**.



Blijf van je gezicht

Raak je gezicht niet aan en vermijd elk fysiek contact.



Volg de instructies

De lesgever informeert je over de te **volgen richtlijnen**. Luister altijd naar zijn/haar instructies. Deze dienen om jouw veiligheid en die van de lesgever te garanderen.



Materiaal

Al het materiaal dat je gebruikt is op voorhand **gereinigd** en wordt ook na elke les opnieuw gereinigd. Tijdens praktijklessen moet je steeds met (eigen) handschoenen werken.



Reiniging lokalen

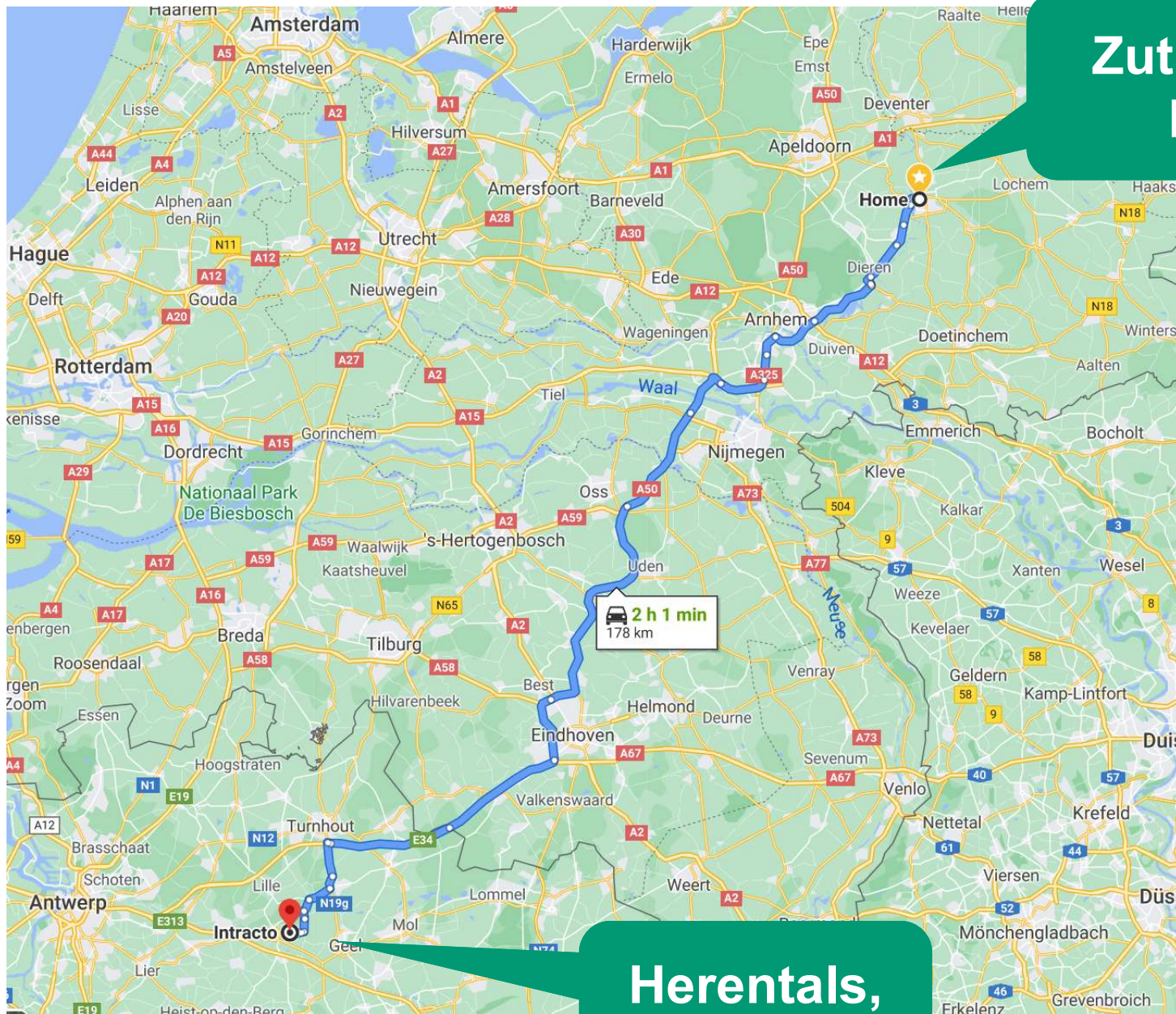
Na elke les worden lestafels, stoelen, klinken en eventueel lesmateriaal opnieuw gereinigd.

Agenda - 3 days

Day 1 – Vue.js Fundamentals

Day 2 – Vue.js Advanced Concepts

Day 3 – Node.js



Zutphen,
NL

Herentals,
BE

Peter Kassenaar

- Trainer, author, developer – since 1996
- Specialty: *"Everything JavaScript"*
- JavaScript, ES6, Angular, NodeJS, TypeScript, jQuery, React, Vue, etc.

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VOOR ONDERNEMERS

Atos



OBERON INTERACTIVE

woonbron

ROC West-Brabant

the eforum
FACTORY

Tell us a little bit about yourself

Knowledge of Vue, other front-end frameworks?

Have you worked with **HTML, CSS, JavaScript,**

TypeScript and/or other (web)languages?

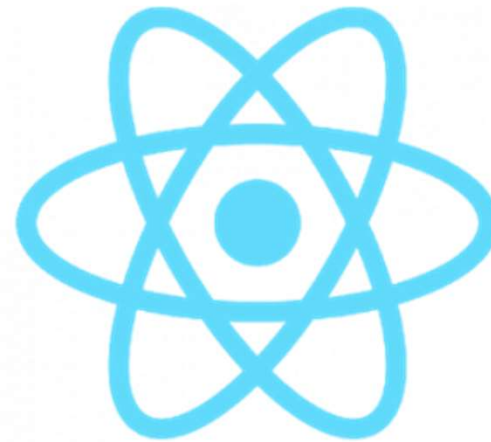
Tell us a little bit about your **projects**.

What are your **expectations** of this course?

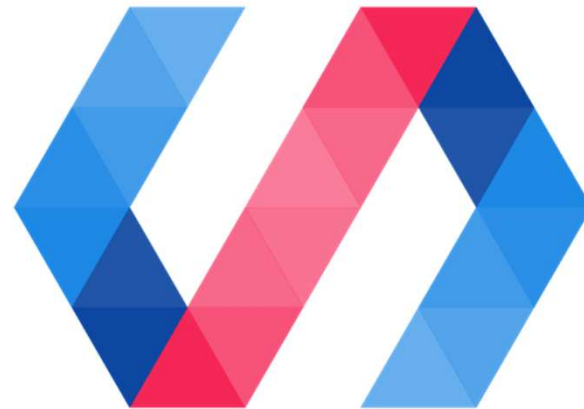
Yesterday

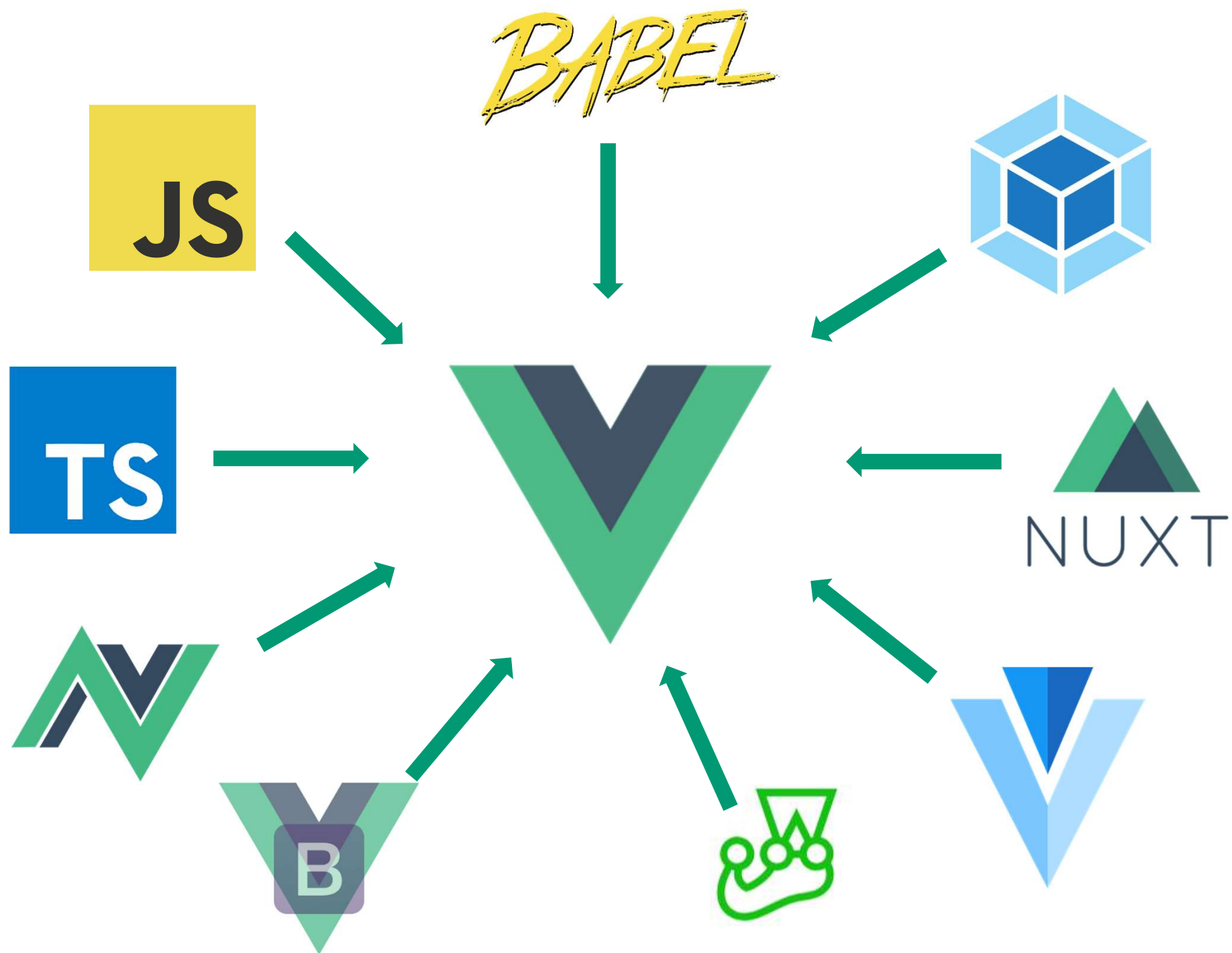
- **Introduction** – overview of the front-end landscape
- Vue **tooling** – installation
 - Vue CLI
 - Vue ui
- NodeJS **commands**
 - `npm install`
 - `npm run serve`
- Hello World – the **structure and architecture** of Vue apps.

Front-end Frameworks

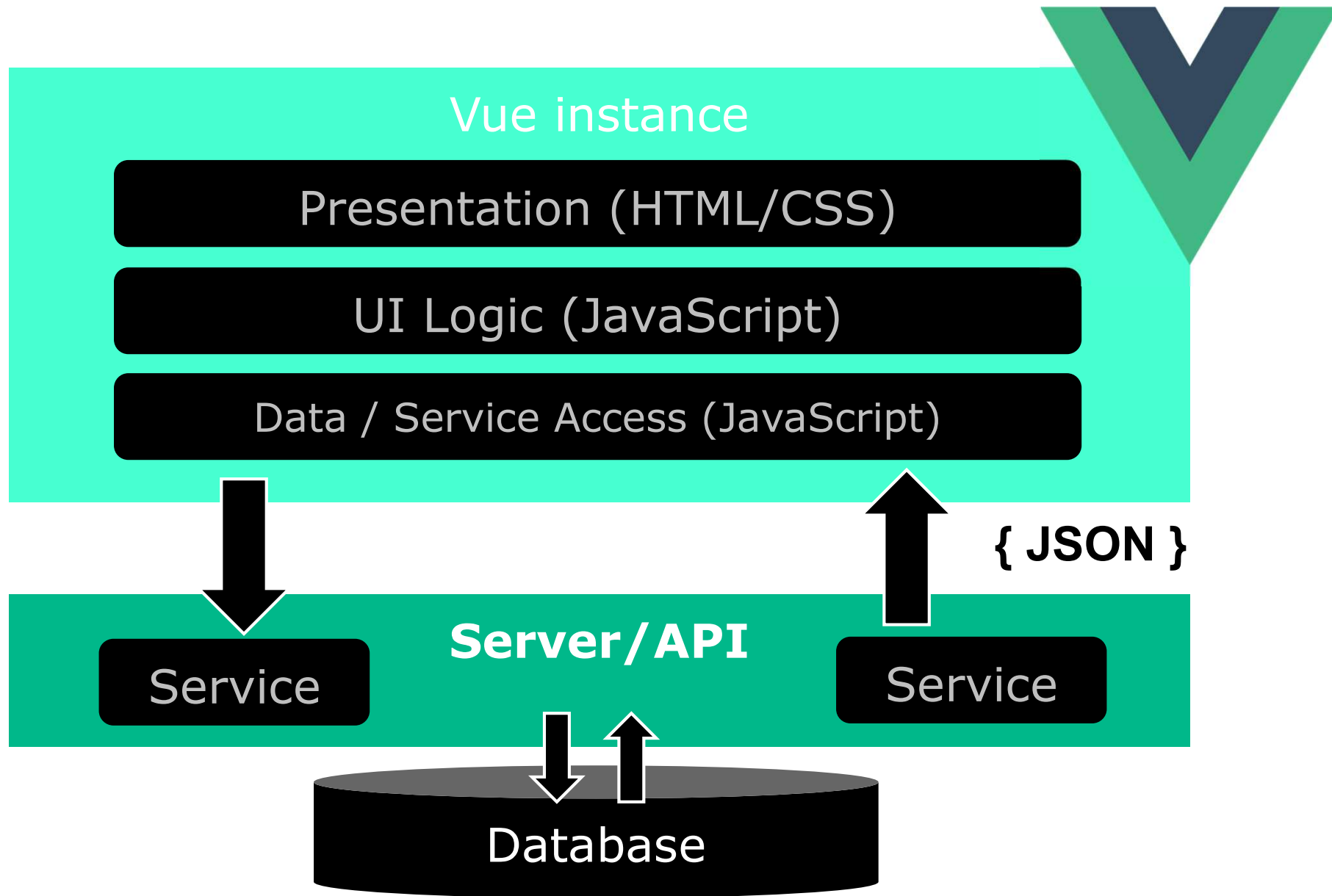


React

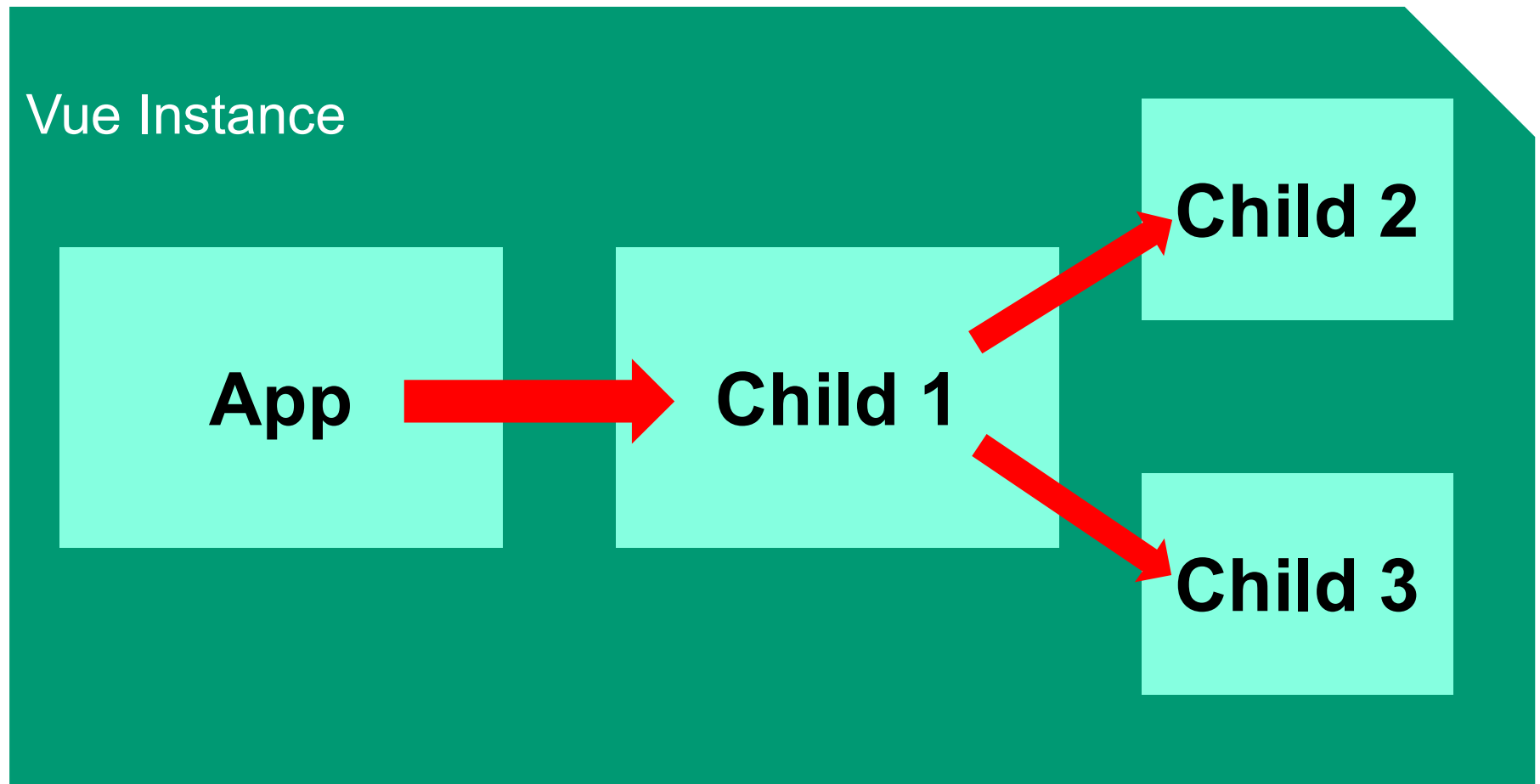




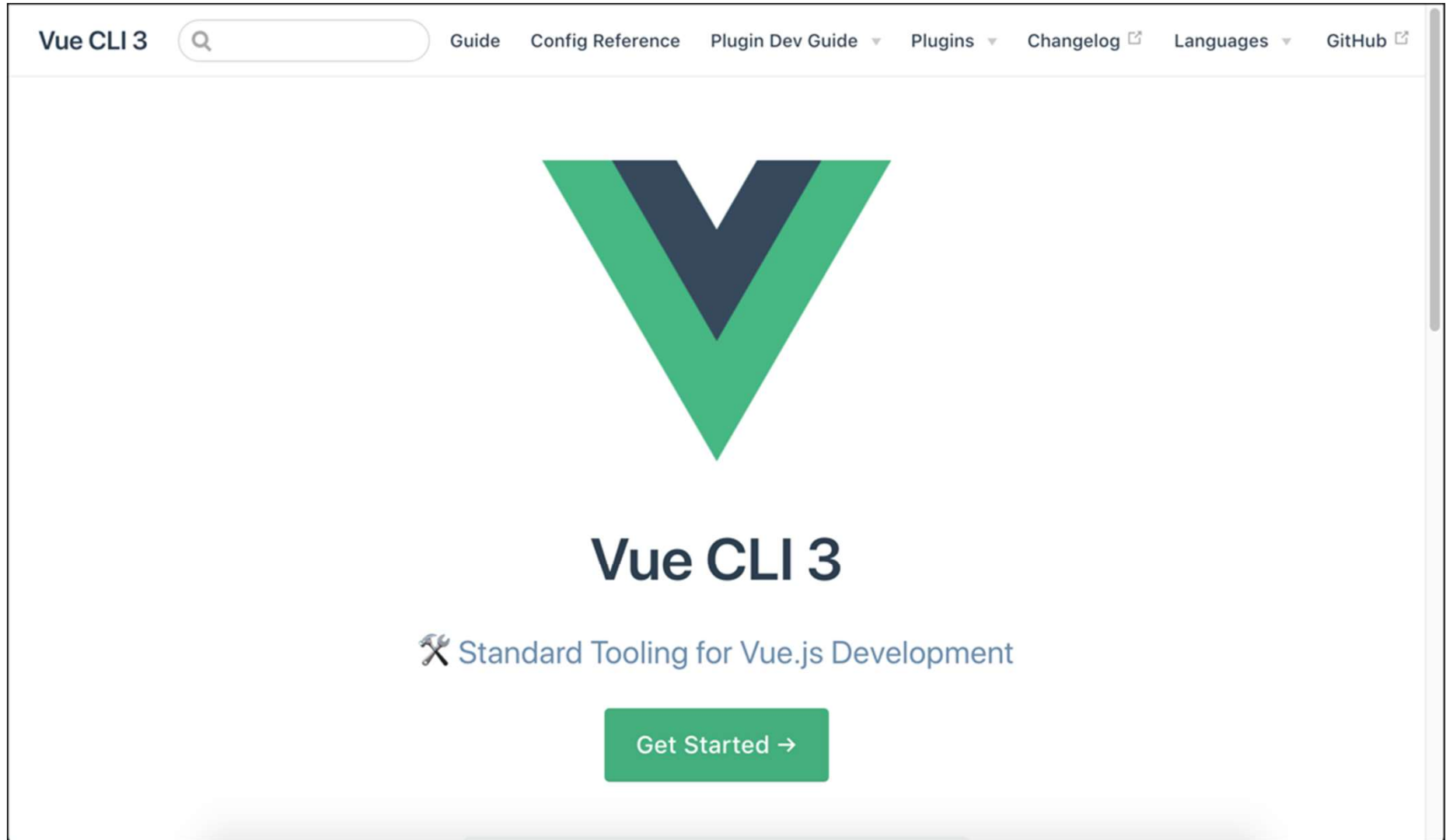
Single Page Application



Visual of the Vue instance



cli.vuejs.org



Yesterday cont'd

- Components:
 - data binding `{{ ... }}`
 - attribute binding `v-bind:` or `:`
 - event binding `v-on:` or `@`
- computed properties `computed: { ... }`
- Binding to images (some **Webpack magic**)
- Using `v-model`
- **Mixins**
- **Lifecycle hooks**

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

Today – Day 2

- **Props** (revisited) and **events**

Important

- Routing
- Routing **parameters**
- **State management** with Vuex
- **Composition API**
- (Introduction **Nuxt** & SSR)
- ...

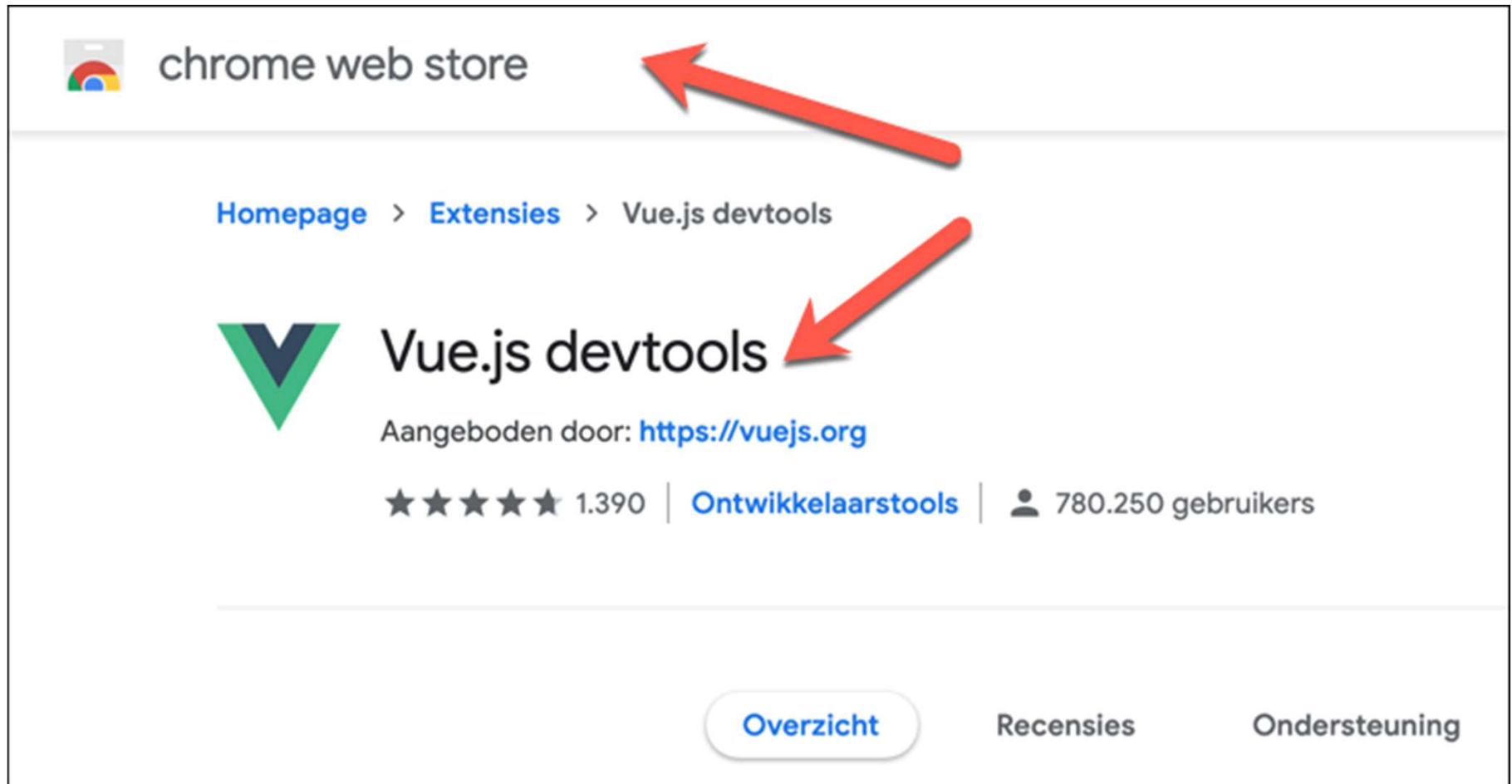
Important



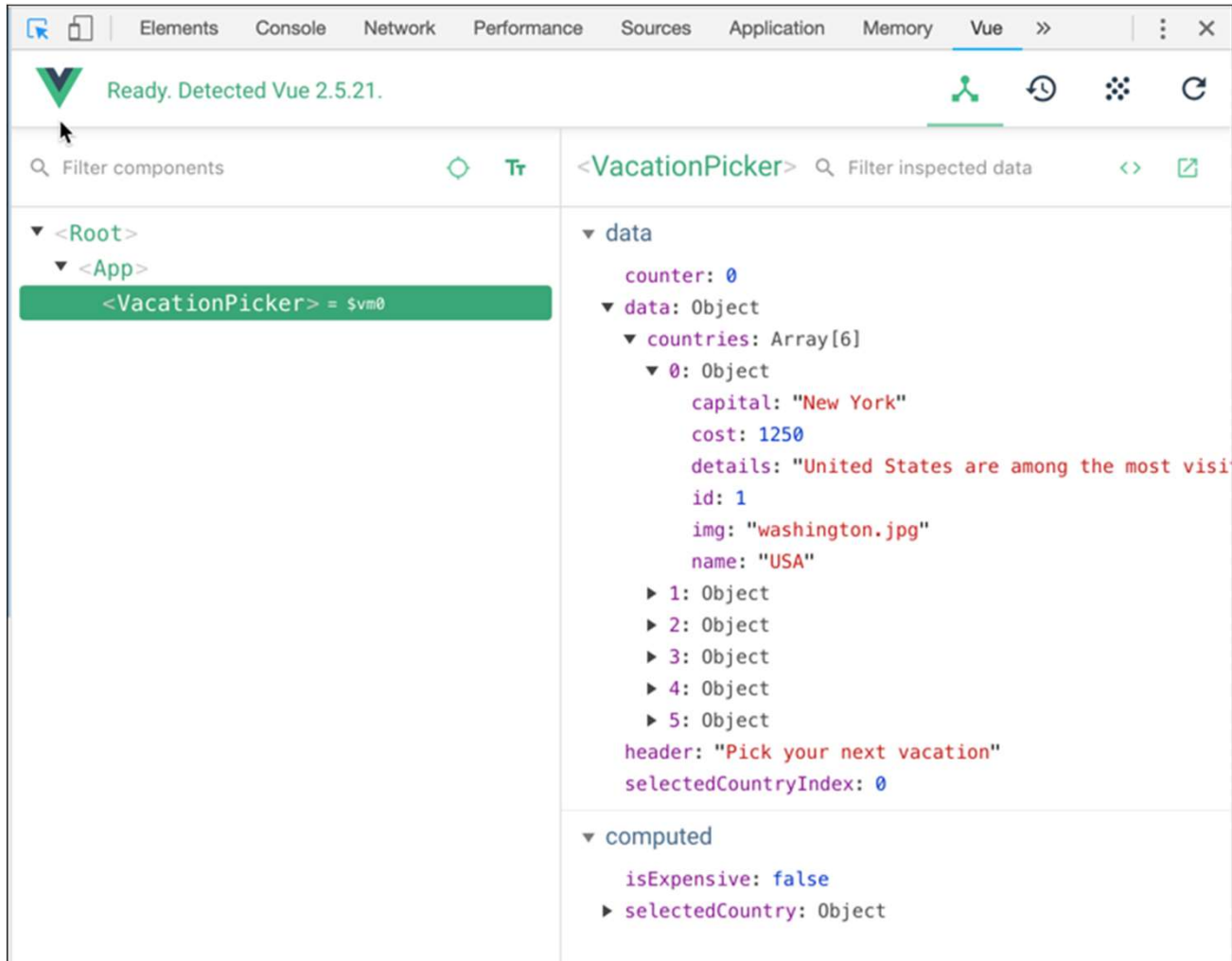
Some extras

Q & A, and stuff which I think is important, but we didn't cover yesterday

Vue DevTools – one time installation



See 'Vue' tab in Chrome DevTools



Chrome devtools
extension for debugging
Vue.js applications.

Inspect application
structure and data

Inspect Vuex store and
state mutations/changes

In Visual Studio Code? Add Vetur Extension

The screenshot shows the Visual Studio Code interface with the Vetur extension installed. The left sidebar displays the 'EXTENSIONS' view with a search bar and a list of installed extensions. The main panel shows the details for the 'Vetur' extension by Pine Wu.

EXTENSIONS

Search Extensions in Marketplace

INSTALLED (6)

- Angular Snippets (Versio...** 9.1.2 2.1M ★ 5
Angular version 9 snippets by John Papa
John Papa
- Live Server** 5.6.1 7.1M ★ 4.5
Launch a development local Server with live...
Ritwick Dey
- Live Share** 1.0.2740 2.8M ★ 4.5
Real-time collaborative development from t...
Microsoft
- Prettier - Code formatter** 5.6.0 8.2M ★ 4
Code formatter using prettier
Prettier
- Simple React Snippets** 1.2.3 621K ★ 5
Dead simple React snippets you will actual...
Burke Holland
- Vetur** 0.27.3 5.5M ★ 4.5
Vue tooling for VS Code
Pine Wu

RECOMMENDED (0)

Extension: Vetur X

Vetur octref.vetur
Pine Wu | 5,505,012 | ★★★★★ | Repository | License
Vue tooling for VS Code
[Disable] [Uninstall] This extension is enabled globally.

Details Feature Contributions Changelog

Vetur

passing v0.27.3 5.5M 4.5/5 (115)

Vue tooling for VS Code.

- [vls](#): Vue Language Server
- [vti](#): Vetur Terminal Interface
- [Docs](#)

VueConf 2017 [Slide](#) & [Video](#)

Sponsors

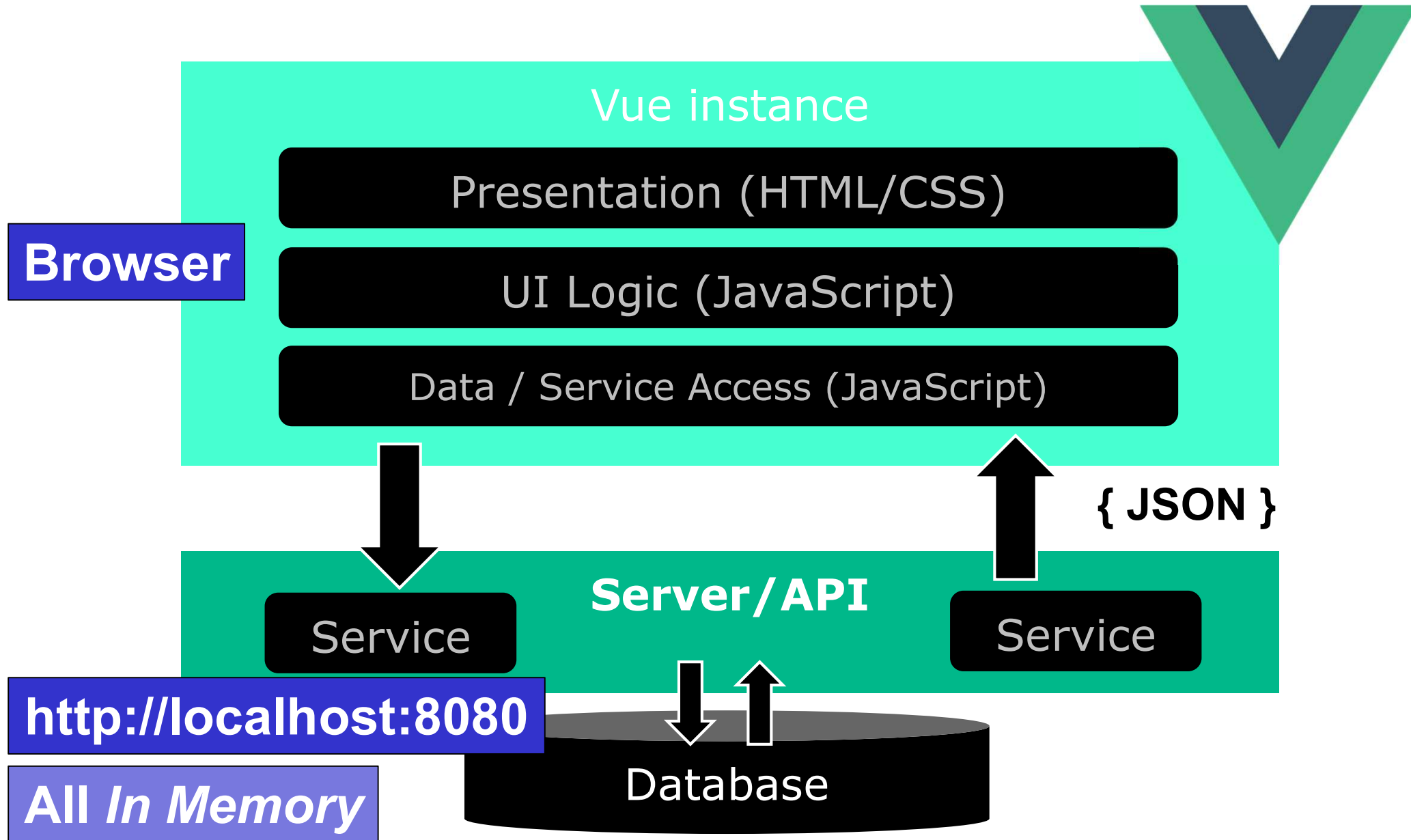
I quit my job to travel nomadically, to work on Open Source and to conduct independent study/res

Vetur is my main focus in Open Source. Your help will alleviate my financial burden and allow me to spend more time working on Vetur. Thank you! 🙏

Question – “What does `npm run serve` actually do?”

“What is the responsibility of the backend/frontend, where are these components actually served from?”

During Development



Deployment

`npm run build`

`/dist`

Vue instance

Presentation (HTML/CSS)

UI Logic (JavaScript)

Data / Service Access (JavaScript)

{ JSON }

Server/API

Service

Service

`https://www.server.be/`

Database



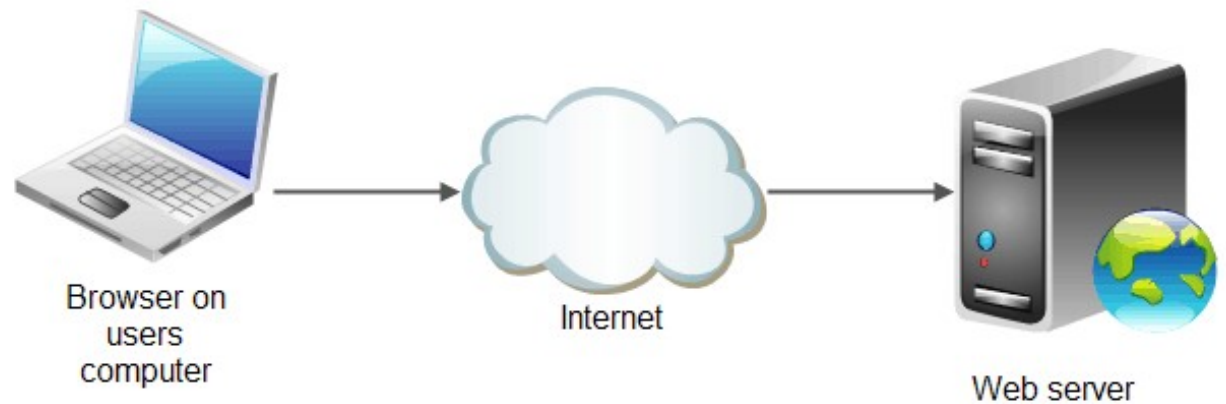
Deployment to...

- PAAS:

- Heroku
- Github Pages
- Amazon S3
- Azure
- Netlify
- ...

- On-premise

- Jboss
- .NET Internet Information Server
- Apache
- TomCat
- Node.js
- ...



Other questions?

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Important

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- (Introduction **Nuxt** & SSR)
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Important

Tomorrow - day 3, Node.js

- Make a choice...
- Node **architecture and concepts**
- Relationship with **NPM**
- Npm init and more npm **CLI commands**
- Structure and role of **package.json**
- **Creating** your own Node.js applications/packages
- Sample Node **Core modules** (Timers, File System, Http, Path, etc)
- **Express** + Express Router
- **MongoDB**
- **Deployment**
- **Publication** on NPM or Nexus ...