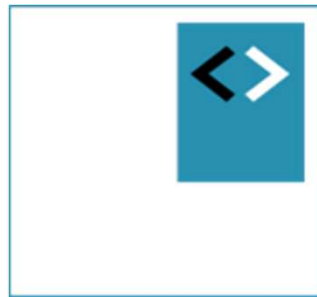




# Vue.js 2e editie

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MEDIA



Peter Kassenaar –  
[info@kassenaar.com](mailto:info@kassenaar.com)

Peter Kassenaar

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GRATIS  
WEBVERSIE  
VAN HET  
BOEK

# Vue.js

Tweede, geactualiseerde editie

Web Development Library



VANDUUREN MEDIA

[Bestel bij Van Duuren Media](#)

# Peter Kassenaar

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

[www.kassenaar.com](http://www.kassenaar.com)

[info@kassenaar.com](mailto:info@kassenaar.com)

Twitter: [@PeterKassenaar](https://twitter.com/PeterKassenaar)



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# github.com/PeterKassenaar/vdm

The screenshot shows the GitHub repository page for `PeterKassenaar/vdm`. The repository is in the `main` branch, has 1 branch, and 0 tags. The commit history shows an initial commit by PeterKassenaar. The repository contains files `.gitignore`, `LICENSE`, and `README.md`. The `README.md` file is displayed, showing the title `vdm` and the description `Slides bij de presentatie Vue.js - Tweede editie`. The right sidebar shows the repository's metadata, including 1 star and 0 forks, and sections for About, Releases, and Packages.

Search or jump to... Pull requests Issues Marketplace Explore

PeterKassenaar / vdm Unwatch 1 Star 0 Fork

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags Go to file Add file Code

PeterKassenaar Initial commit 05109c0 now 1 commit

.gitignore	Initial commit	now
LICENSE	Initial commit	now
README.md	Initial commit	now

README.md

## vdm

Slides bij de presentatie Vue.js - Tweede editie

About Slides bij de presentatie Vue.js - Tweede editie

Readme

Releases No releases published [Create a new release](#)

Packages No packages published [Publish your first package](#)

*High level overview van Vue.js*

*Enige praktische kennis van  
Vue.js*

## Q & A

*Heb je vragen? Stel ze in de chatbox!*

*[QQ] "Kun je ook...?"*

Na afloop van de presentatie bespreken  
we de vragen

# Agenda

Totaal: ca. 1:00 uur

05:00 minuten - Indeling van het boek

25:00 minuten - "Theorie" – achtergronden bij Vue

30:00 minuten - "Praktijk" – apps maken en componenten



# Vuejs.org



<https://vuejs.org>

Peter Kassenaar

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# Vue.js

Tweede, geactualiseerde editie

Web Development Library



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# Indeling

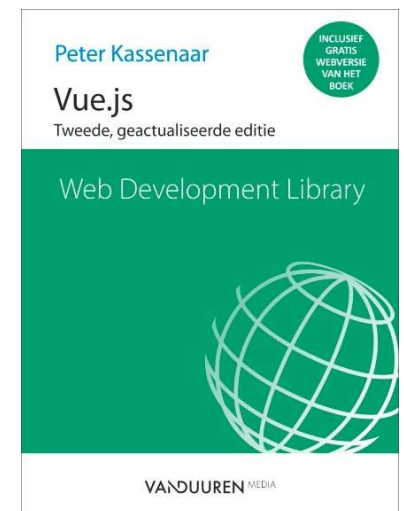
## 8 hoofdstukken

Van eerste kennismaking tot uitrollen Vue-website op de  
server

## Praktijkoefeningen

Aan het einde van elk hoofdstuk

Geschikt voor zelfstudie



# Indeling van het boek

- Hoofdstuk 1
  - Algemene achtergronden - kennismaken
- Hoofdstuk 2
  - Eerste applicatie, structuur en architectuur
- Hoofdstuk 3
  - Databinding
- Hoofdstuk 4
  - 'Advanced' components

# Indeling van het boek

- Hoofdstuk 5
  - Communicatie tussen componenten
- Hoofdstuk 6
  - Vue-router – navigeren op de website
- Hoofdstuk 7
  - State Management met vuex
- Hoofdstuk 8
  - Deployment – uitrollen naar productieserver



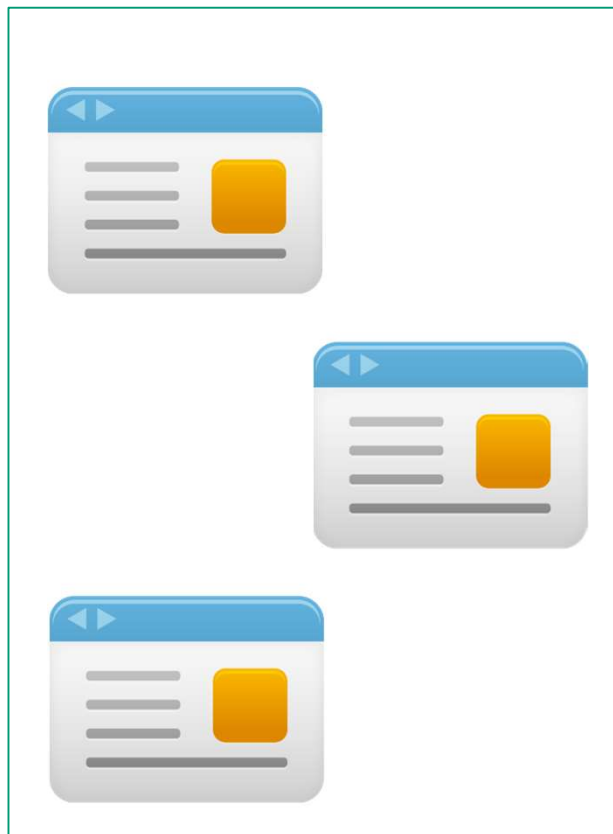
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# “Theorie”

Enkele achtergronden bij Vue –  
zicht op het grotere geheel



# Vorige generatie frameworks (ca. 1995-2012)



Separate (enhanced) web  
pages

Index.html

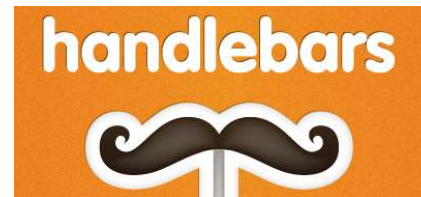
Contact.html

Products.html

...

# Old school web apps

HTML + templates



Data Binding



Routing



DOM-manipulation



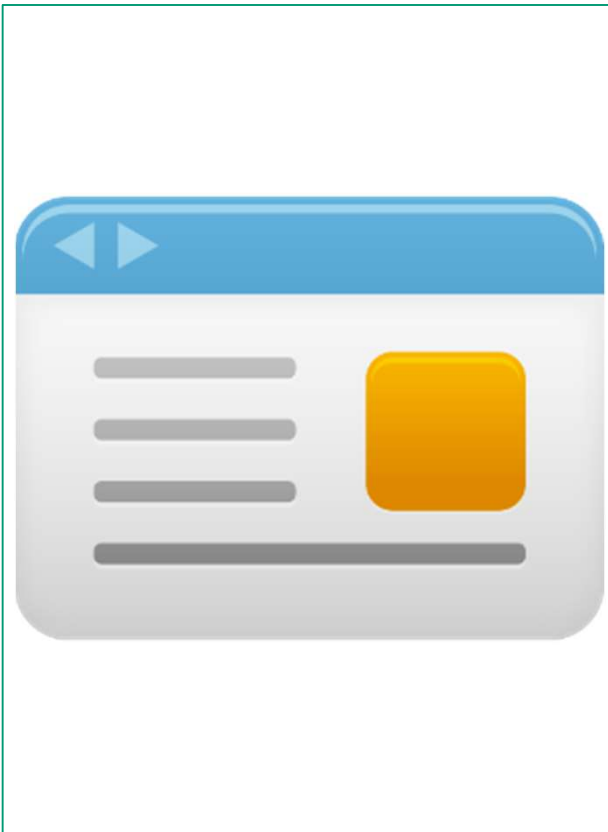
Mobile development



...



# Huidige generatie (ca. 2012 - ...)



Integrated, framework  
approach:

Templating

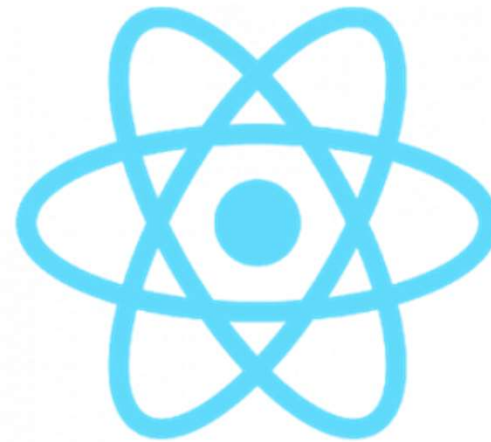
Scripting

Data binding

Routing

...

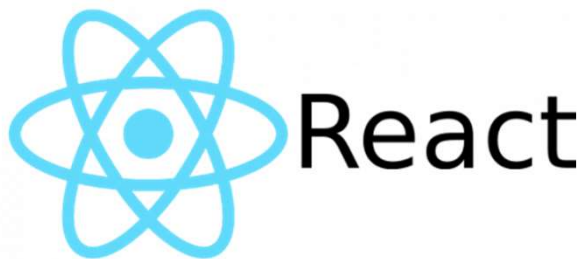
# Front-end Frameworks – the big four



React



# Overeenkomsten

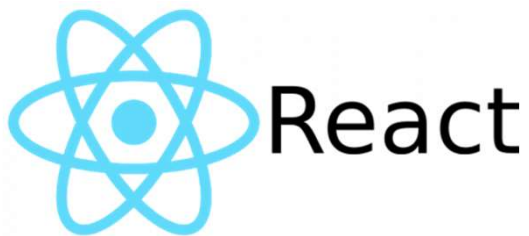


- Creating Single Page Applications
- Based on components
- Data binding, props, events, routing, state management, ...
- Huge ecosystem
- Huge community
- High adaptation rate

## Verschillen (anders dan syntax)

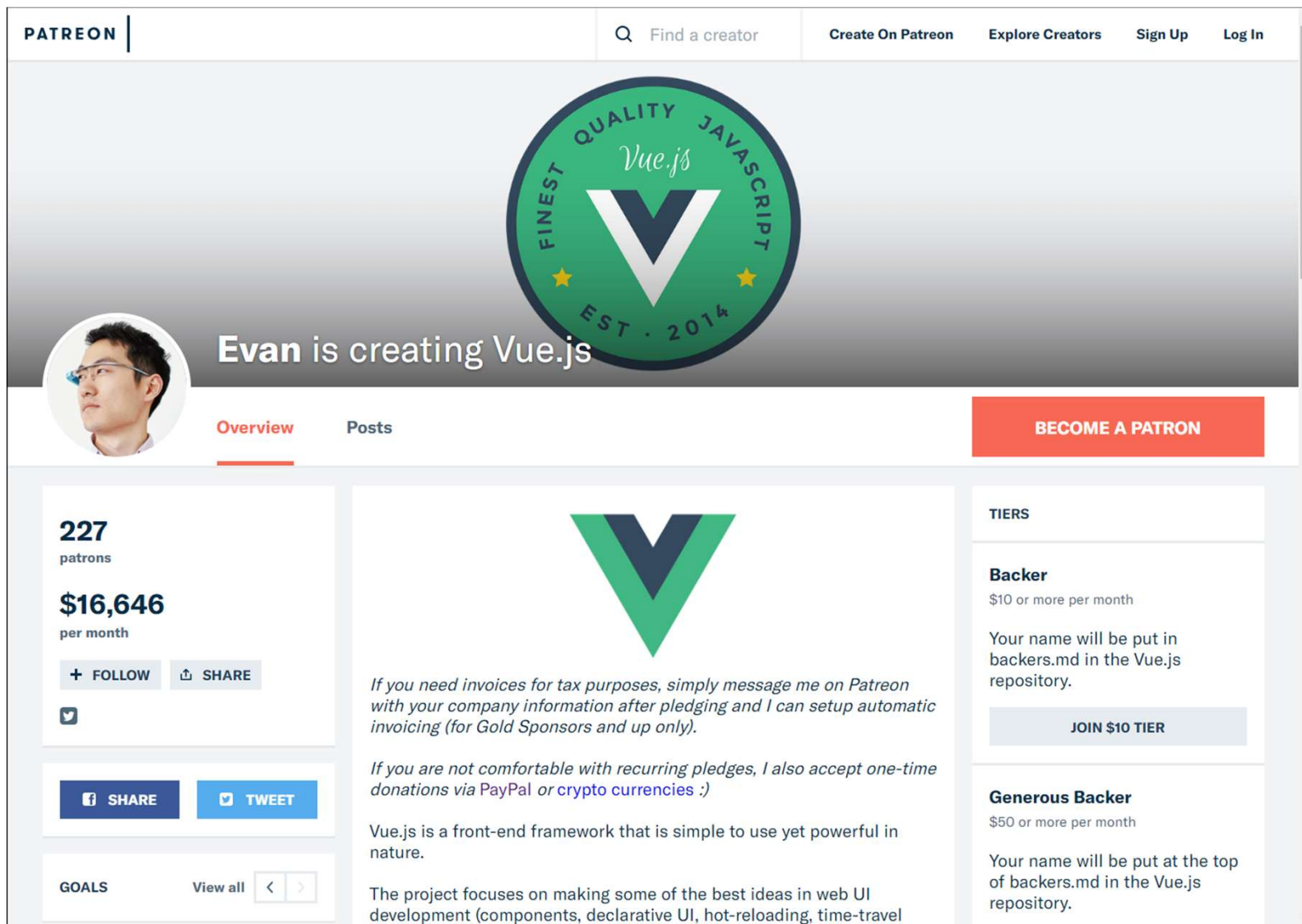


- Point of departure: **HTML template**, enhanced with framework specific tags and attributes
- One-stop-shop / solution



- Point of departure: **JavaScript**, JavaScript, JavaScript (JSX)
- Build-all-yourself

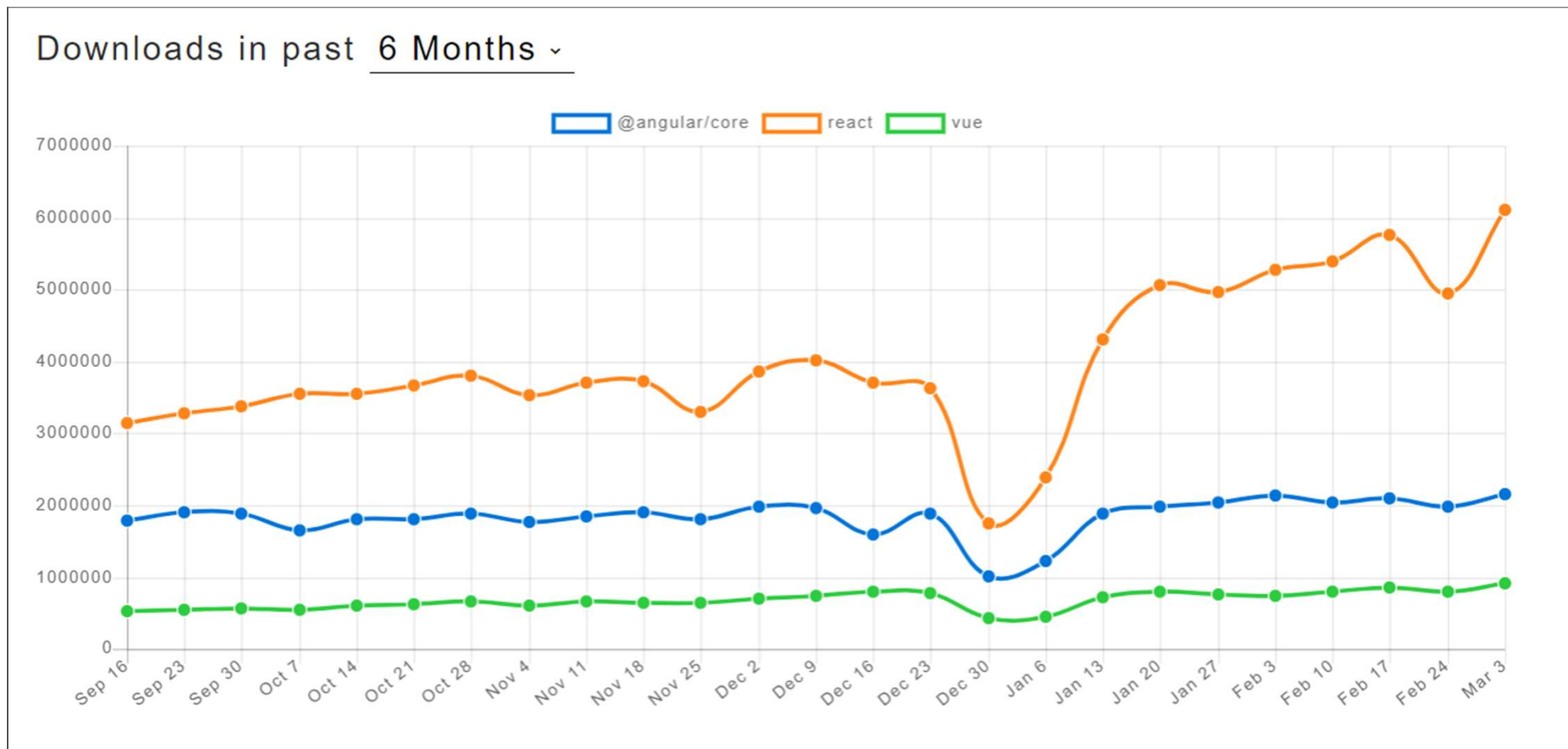
# Vue.js – Created by Evan You



The image is a screenshot of the Vue.js Patreon page. At the top, the Patreon logo is on the left, and a search bar with the text "Find a creator" is in the center. To the right of the search bar are links for "Create On Patreon", "Explore Creators", "Sign Up", and "Log In". Below the navigation bar is a large header section. On the left of this section is a circular profile picture of Evan You. To the right of the picture, the text "Evan is creating Vue.js" is displayed. In the center of the header is a large circular logo for Vue.js. The logo is green with a white "V" in the center. The text "FINEST QUALITY JAVASCRIPT" is written around the top inner edge of the circle, and "EST. 2014" is at the bottom. Below the header section, there are two tabs: "Overview" (which is selected and underlined) and "Posts". To the right of these tabs is a red button that says "BECOME A PATRON". The main content area is divided into three columns. The left column contains statistics: "227 patrons" and "\$16,646 per month". Below these are buttons for "+ FOLLOW" and "SHARE" (with a share icon). There is also a small Twitter icon. Below the statistics are buttons for "f SHARE" (Facebook) and "TWEET" (Twitter). At the bottom of the left column is a "GOALS" section with a "View all" link and navigation arrows. The middle column features a large green and blue "V" logo. Below the logo, there is a paragraph of text: "If you need invoices for tax purposes, simply message me on Patreon with your company information after pledging and I can setup automatic invoicing (for Gold Sponsors and up only).". Below this is another paragraph: "If you are not comfortable with recurring pledges, I also accept one-time donations via PayPal or crypto currencies :)". Below that is a paragraph: "Vue.js is a front-end framework that is simple to use yet powerful in nature." At the bottom of the middle column is a paragraph: "The project focuses on making some of the best ideas in web UI development (components, declarative UI, hot-reloading, time-travel". The right column is titled "TIERS". It contains two tiers: "Backer" and "Generous Backer". The "Backer" tier is described as "\$10 or more per month" and includes the text "Your name will be put in backers.md in the Vue.js repository." Below this tier is a button that says "JOIN \$10 TIER". The "Generous Backer" tier is described as "\$50 or more per month" and includes the text "Your name will be put at the top of backers.md in the Vue.js repository."

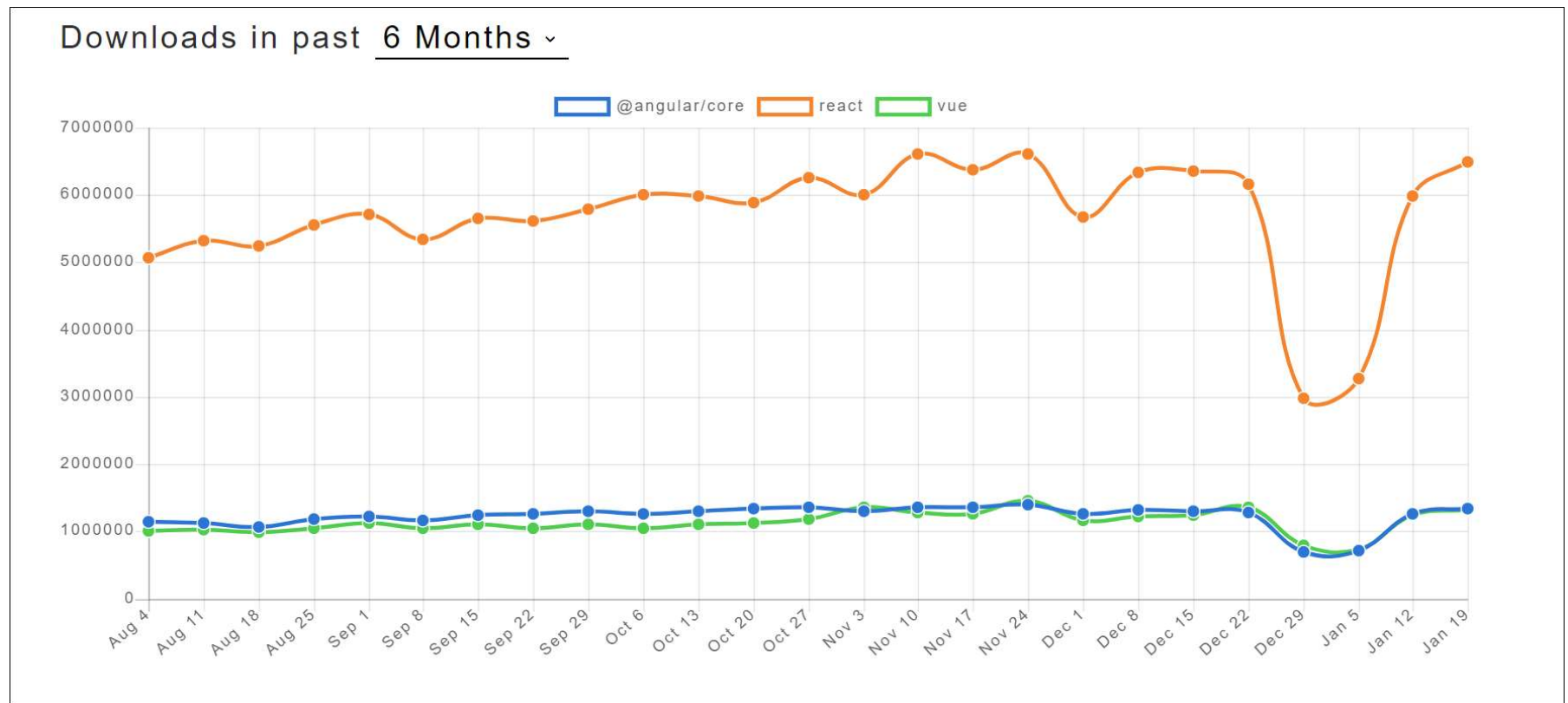
No backing from company with deep pockets – all crowd funded

# A 2019 comparison



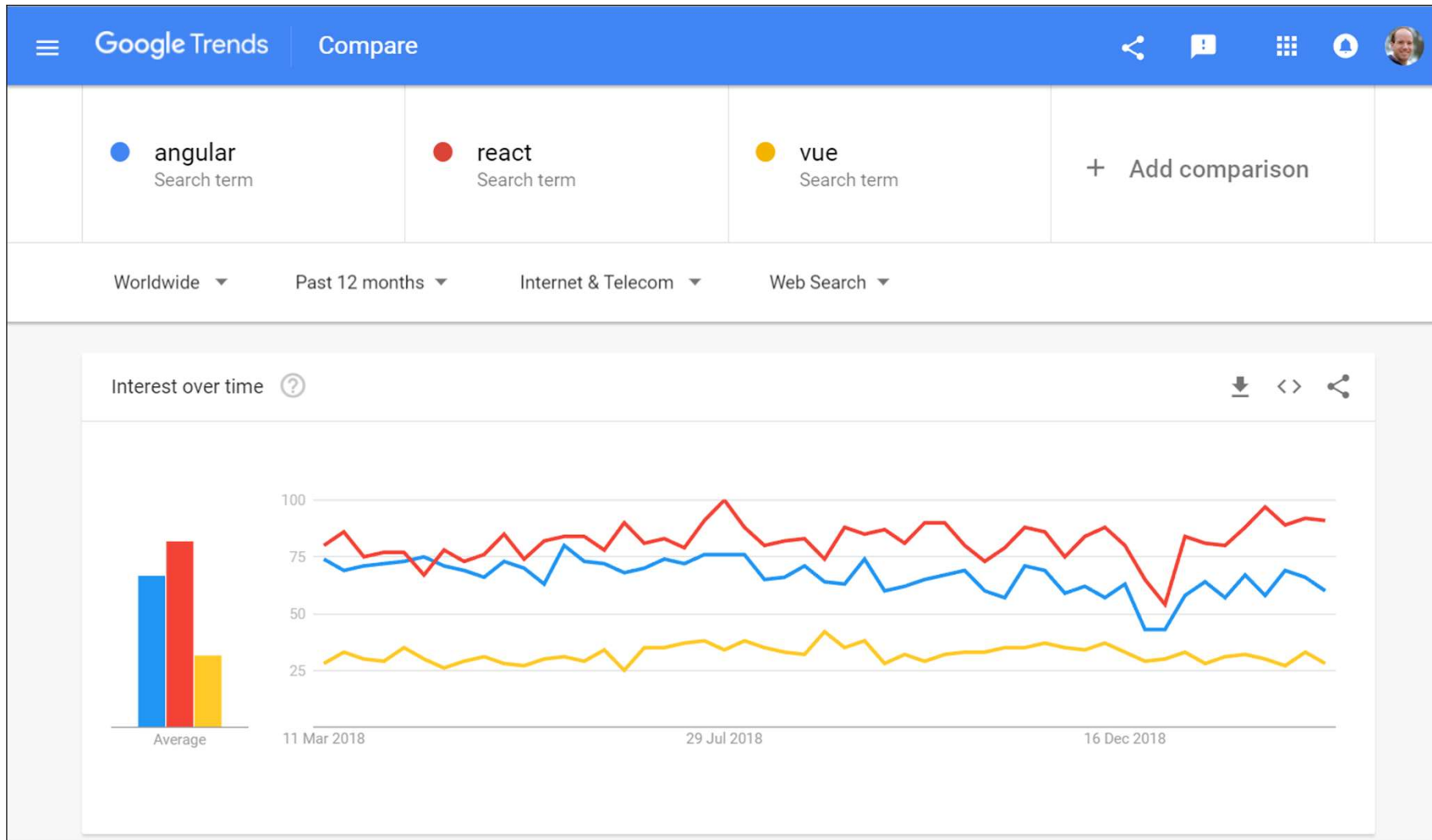
<https://www.npmtrends.com/@angular/core-vs-react-vs-vue>

# A 2021 comparison



<https://www.npmtrends.com/@angular/core-vs-react-vs-vue>

# Google Trends



<https://trends.google.com/trends/explore?cat=13&q=angular,react,vue>



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## Angular vs React vs Vue: Which Framework to Choose in 2020

by  **Shaumik Daityari** / updated: august 9, 2020 / [web & app frameworks](#)

This post is a comprehensive guide on which is perhaps the right solution for you: **Angular vs React vs Vue**.

Just a couple of years ago, developers were mainly debating on whether they should be using Angular vs React for their projects. But over the course of the last couple of years, we saw a growth of interest in a third player called Vue.js.

If you are a **developer starting out** on a project and cannot decide on which JavaScript framework to use, this guide should help you make a decision.

We cover various aspects of Angular, Vue, and React to see how they suit your needs. This post is not just a guide on Angular vs React vs Vue but aims to provide a structure to help judge front-end JavaScript frameworks in general. In case a new framework



Which #javascript framework to choose in 2019: @angular vs @vuejs vs @reactjs

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<https://www.codeinwp.com/blog/angular-vs-vue-vs-react/>

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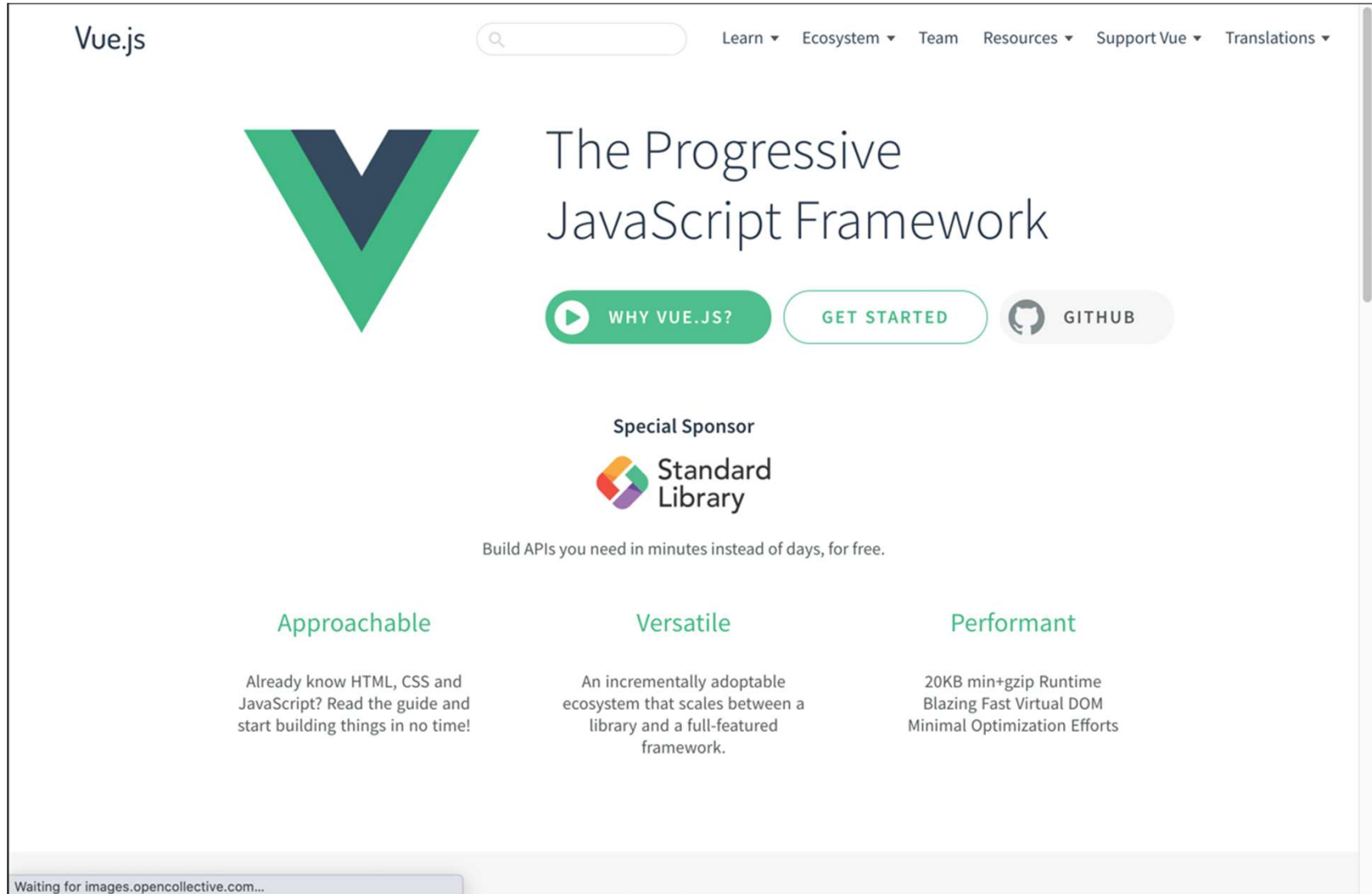
Speedtest >



# Over Vue.js versies

Vue.js groeit

# Huidige meestgebruikte versie – Vue 2.x



# Ook beschikbaar – Vue 3

Nieuwe features

Betere performance

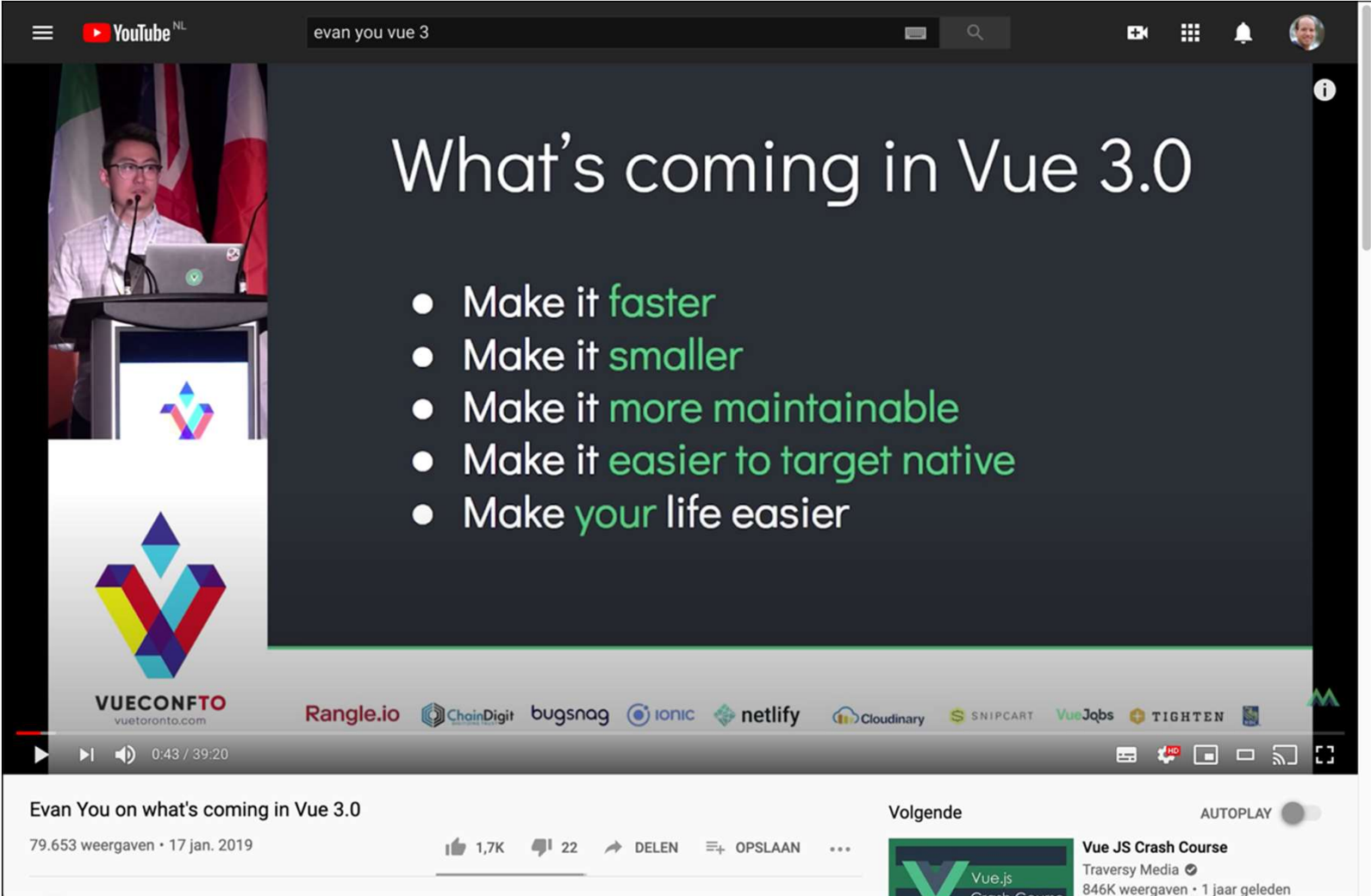
Backward compatible

Nieuwe eigenschappen zijn *opt-in*



status: **Officially Released**, in oktober 2020, maar nog steeds in  
beginstadium

# Evan You over Vue 3



The image shows a YouTube video player interface. The video title is "Evan You on what's coming in Vue 3.0". The video content features Evan You at a podium on the left and a presentation slide on the right. The slide is titled "What's coming in Vue 3.0" and lists five bullet points: "Make it faster", "Make it smaller", "Make it more maintainable", "Make it easier to target native", and "Make your life easier". The video player includes a search bar at the top with the text "evan you vue 3", a progress bar at the bottom showing 0:43 / 39:20, and a list of sponsors including Rangle.io, ChainDigit, bugsnag, ionic, netlify, Cloudinary, SNIPART, VueJobs, and TIGHTEN. The video has 1,7K likes and 22 comments. The video was uploaded on January 17, 2019, and has 79,653 views. The video player also shows a "Volgende" (Next) video recommendation: "Vue JS Crash Course" by Traversy Media, which has 846K views and was uploaded 1 year ago.

YouTube NL

evan you vue 3

## What's coming in Vue 3.0

- Make it faster
- Make it smaller
- Make it more maintainable
- Make it easier to target native
- Make your life easier

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0:43 / 39:20

Evan You on what's coming in Vue 3.0

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1,7K 22 DELEN OPSLAAN

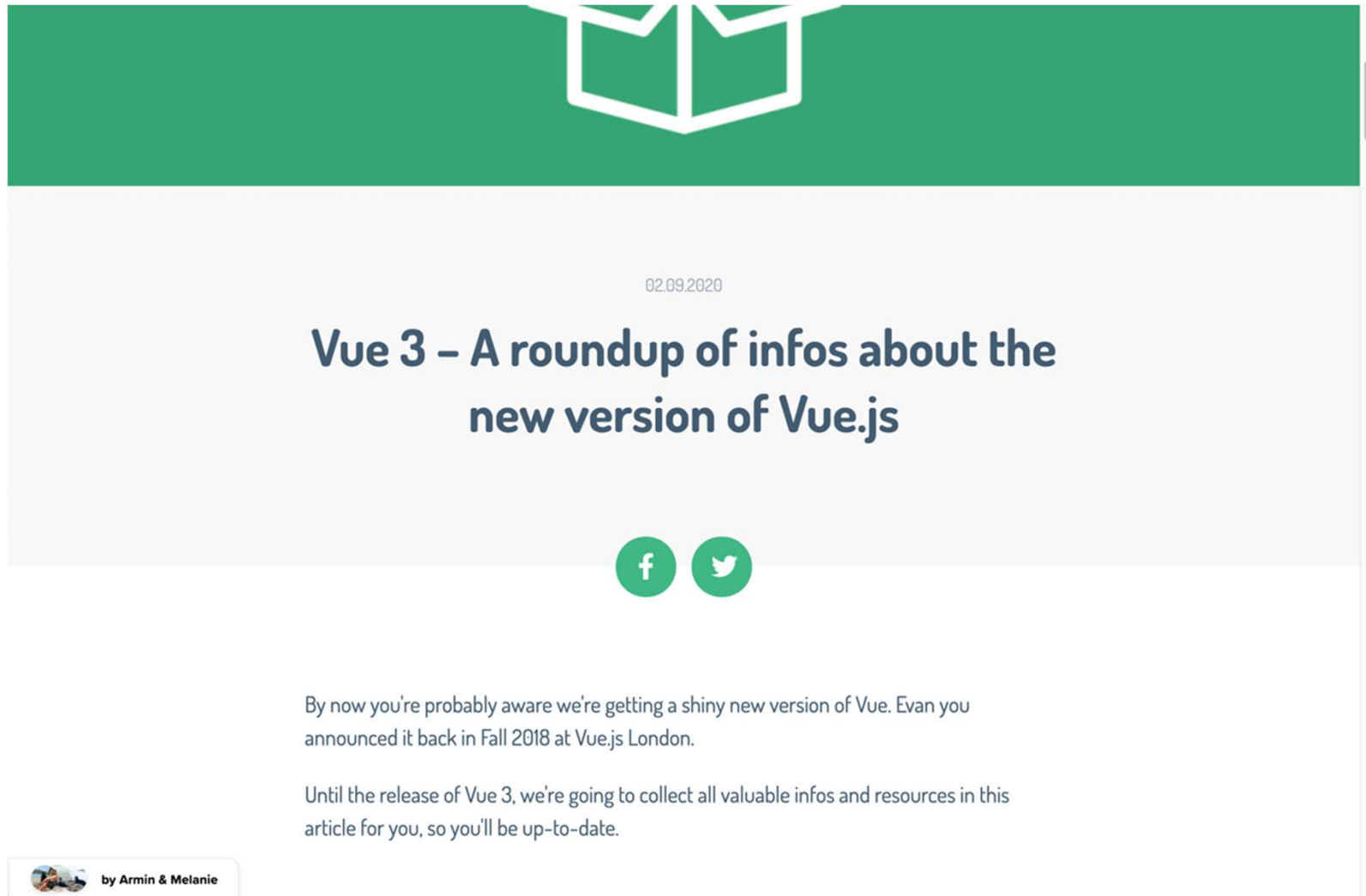
Volgende

AUTOPLAY

**Vue JS Crash Course**  
Traversy Media  
846K weergaven • 1 jaar geleden

<https://www.youtube.com/watch?v=8Hgt9HYaCDA>

# More info/samenvatting Vue 3

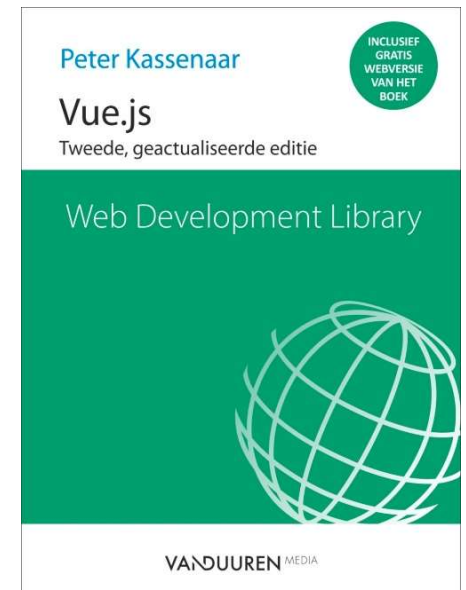


<https://madewithvuejs.com/blog/vue-3-roundup>



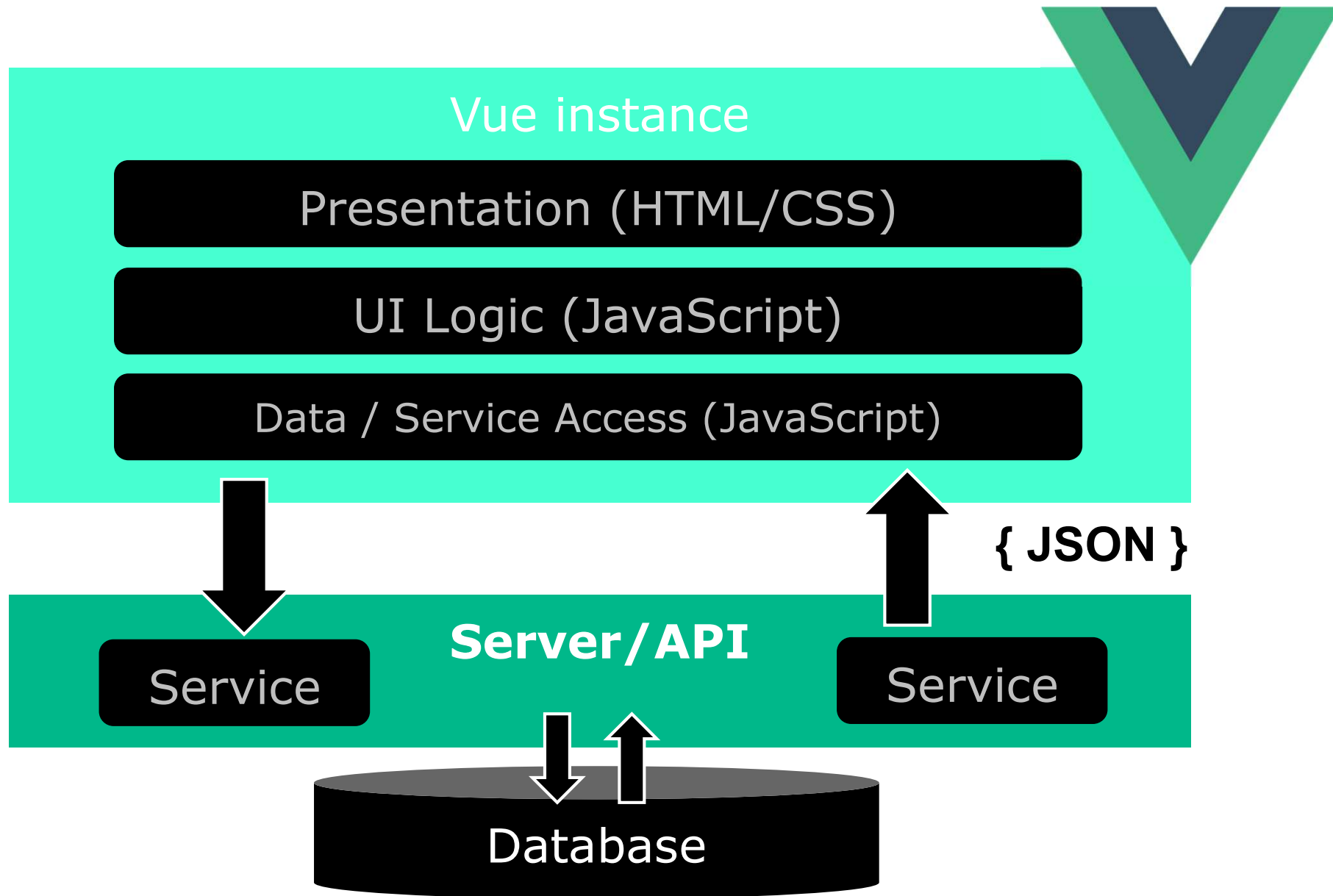
# Vue application structure

Getting a conceptual understanding of the Vue app architecture





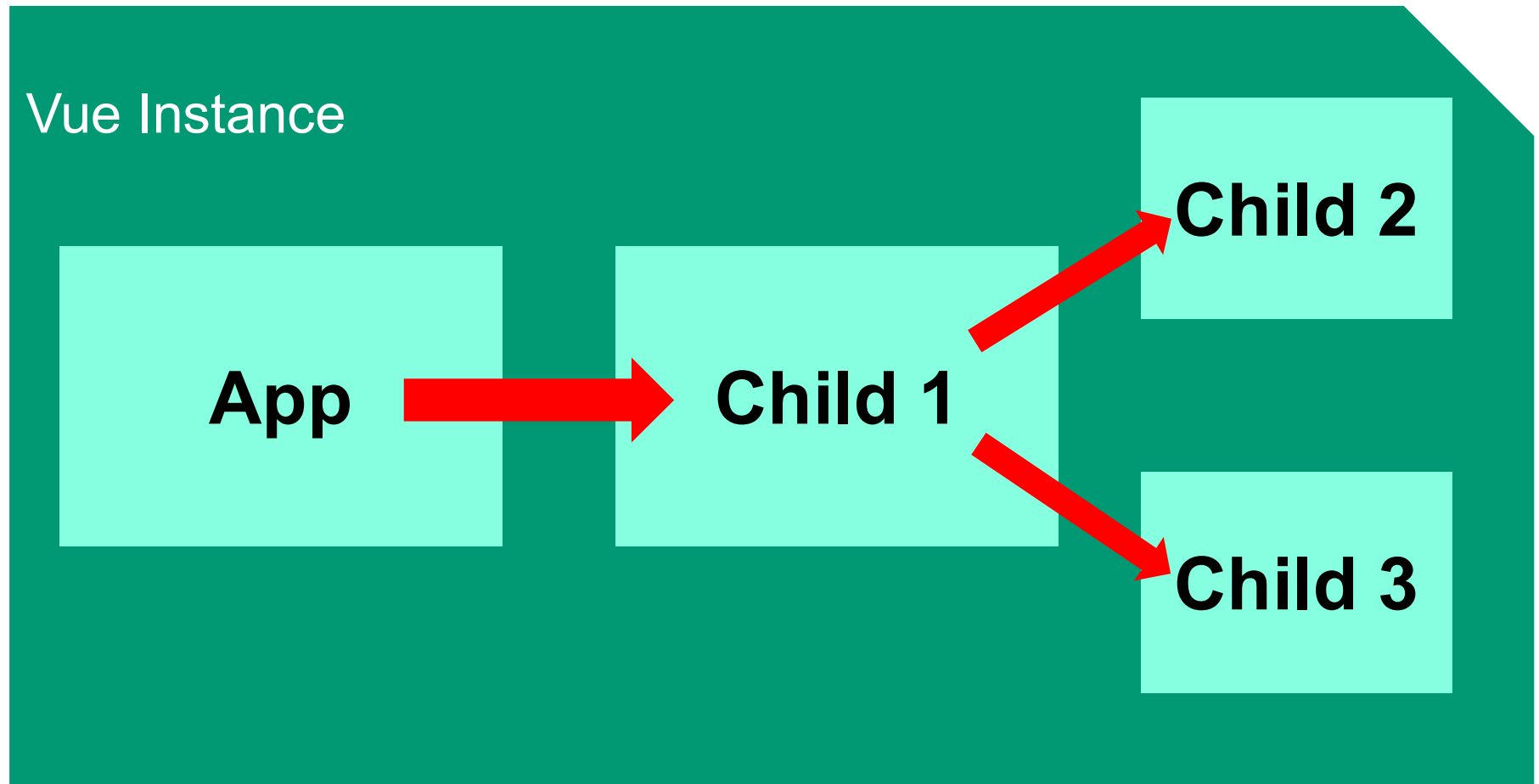
# Single Page Application



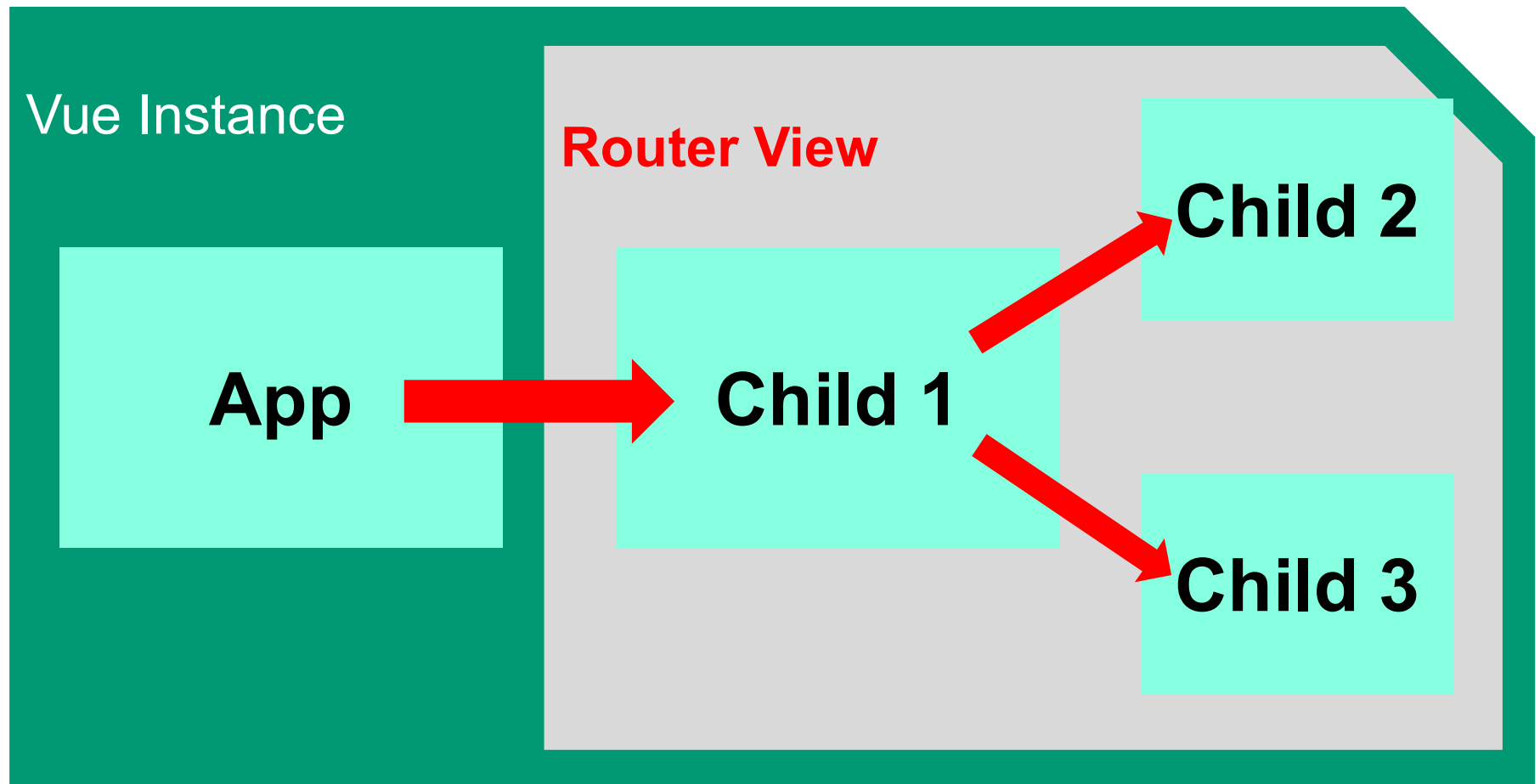
# The Vue instance

- The heart of every application : the **Vue instance**
- Created whenever you call `new Vue()` in your code
- Typical application: just 1 (one) Vue instance
  - File: `main.js`
- Pass in a configuration object
- Render the starting component. Typically, by calling  
`new Vue({render : h => h(App) })`

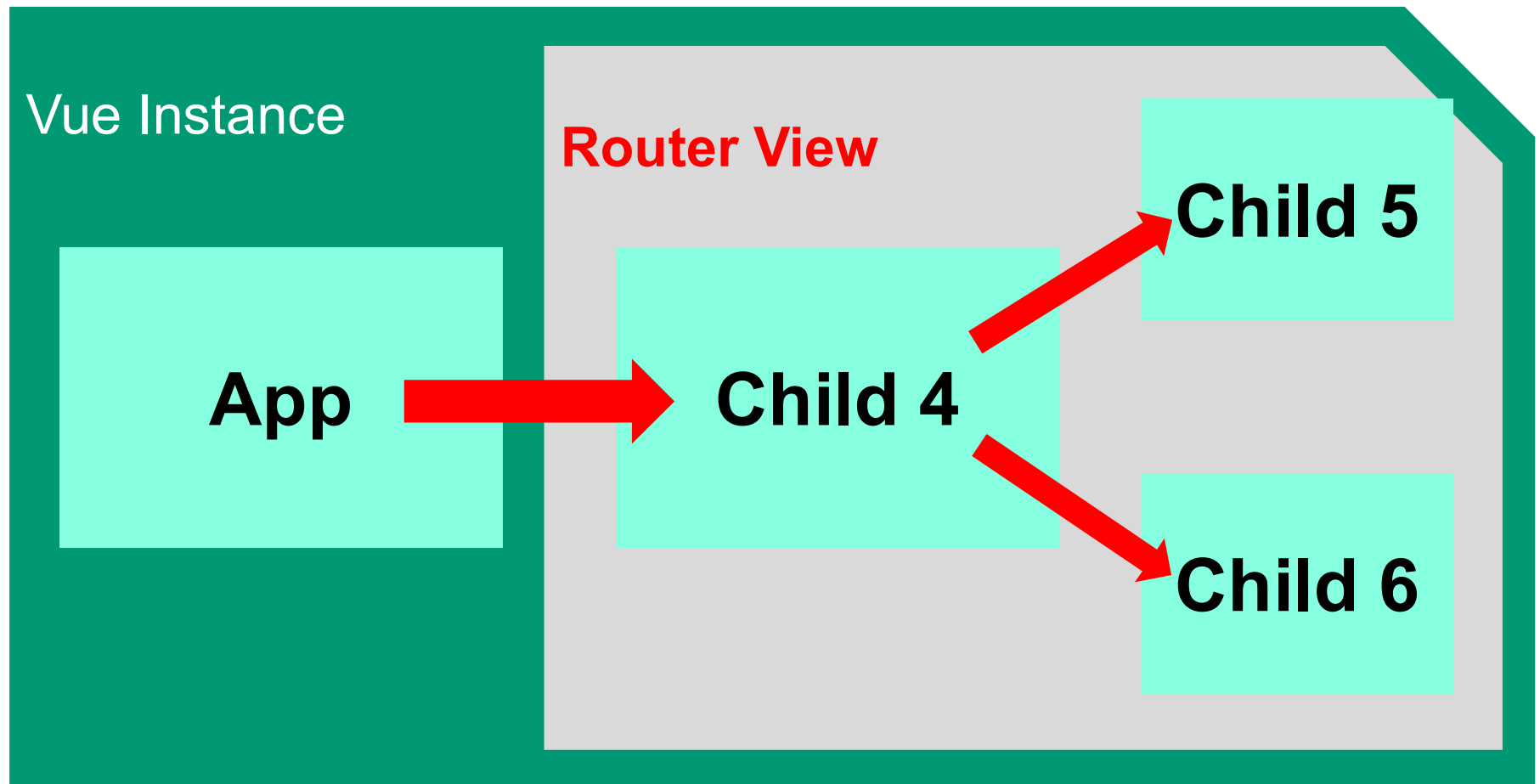
# Visual of the Vue instance



# Vue app with routing



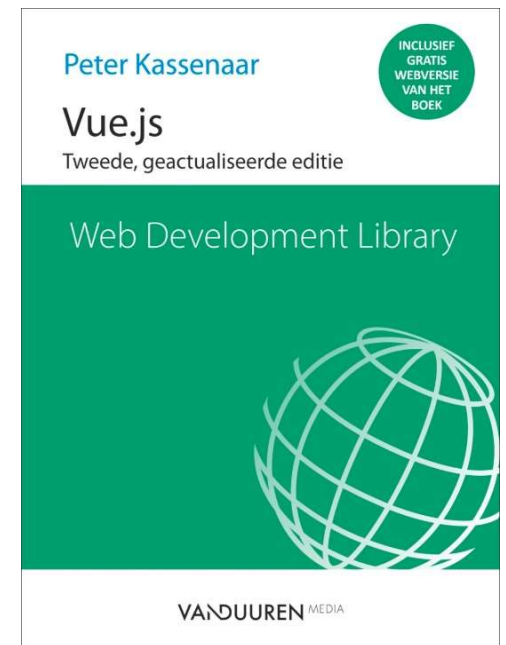
**As the URL changes, content gets updated**



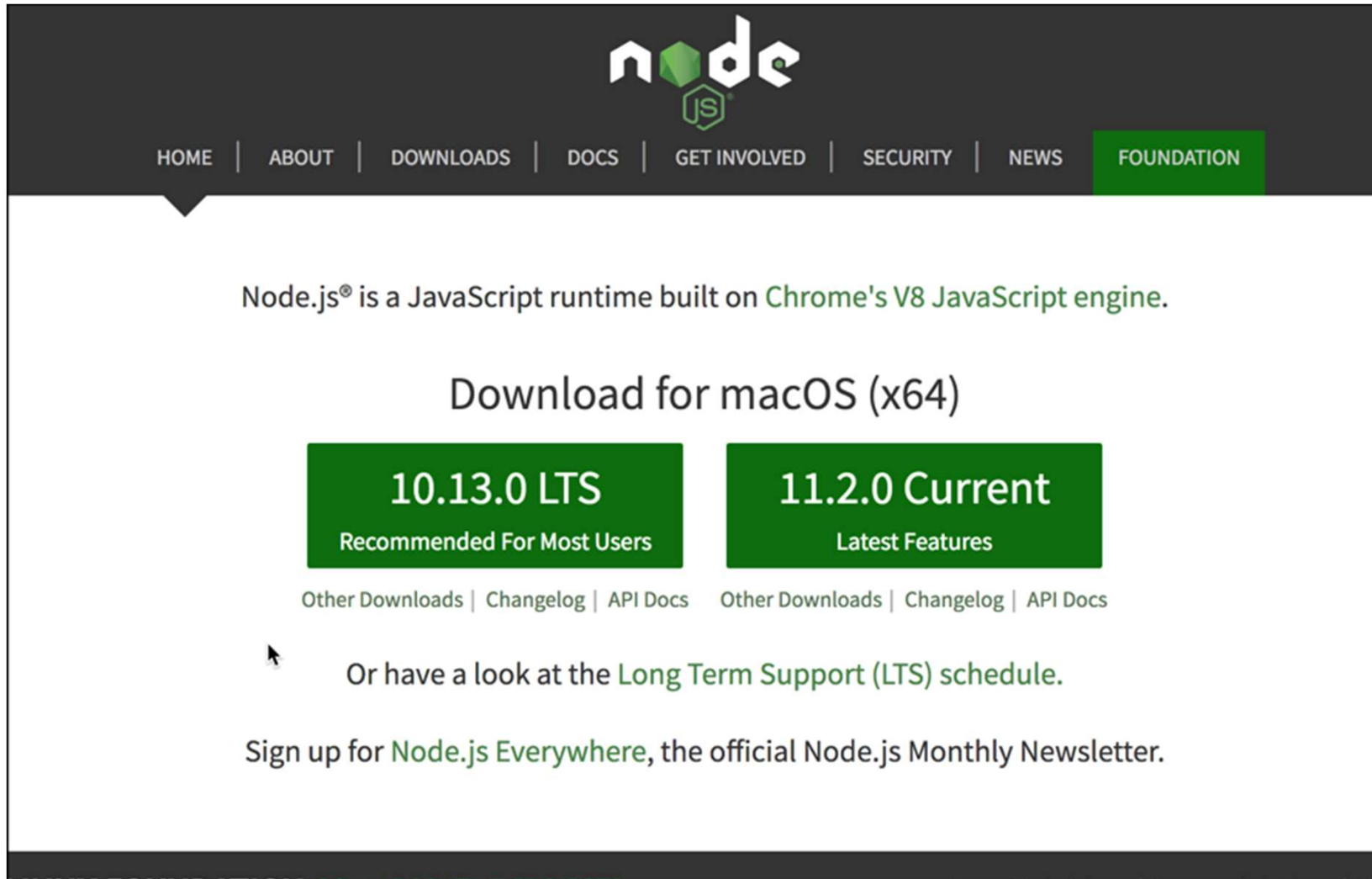


# “Praktijk”

Applicaties maken, componenten,  
communicatie



# NodeJS



The screenshot shows the Node.js website homepage. At the top is a dark navigation bar with the Node.js logo and links for HOME, ABOUT, DOWNLOADS, DOCS, GET INVOLVED, SECURITY, NEWS, and FOUNDATION. The FOUNDATION link is highlighted in green. Below the navigation bar, the text reads: "Node.js® is a JavaScript runtime built on Chrome's V8 JavaScript engine." The main heading is "Download for macOS (x64)". There are two green buttons: "10.13.0 LTS" with the subtext "Recommended For Most Users" and "11.2.0 Current" with the subtext "Latest Features". Below these buttons are links for "Other Downloads | Changelog | API Docs" for both versions. A mouse cursor points to the text "Or have a look at the Long Term Support (LTS) schedule." Below that is a sign-up prompt: "Sign up for Node.js Everywhere, the official Node.js Monthly Newsletter."

node

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Node.js® is a JavaScript runtime built on Chrome's V8 JavaScript engine.

## Download for macOS (x64)

**10.13.0 LTS**  
Recommended For Most Users

**11.2.0 Current**  
Latest Features

[Other Downloads](#) | [Changelog](#) | [API Docs](#)   [Other Downloads](#) | [Changelog](#) | [API Docs](#)

Or have a look at the [Long Term Support \(LTS\) schedule](#).

Sign up for [Node.js Everywhere](#), the official Node.js Monthly Newsletter.

<https://nodejs.org/en/>

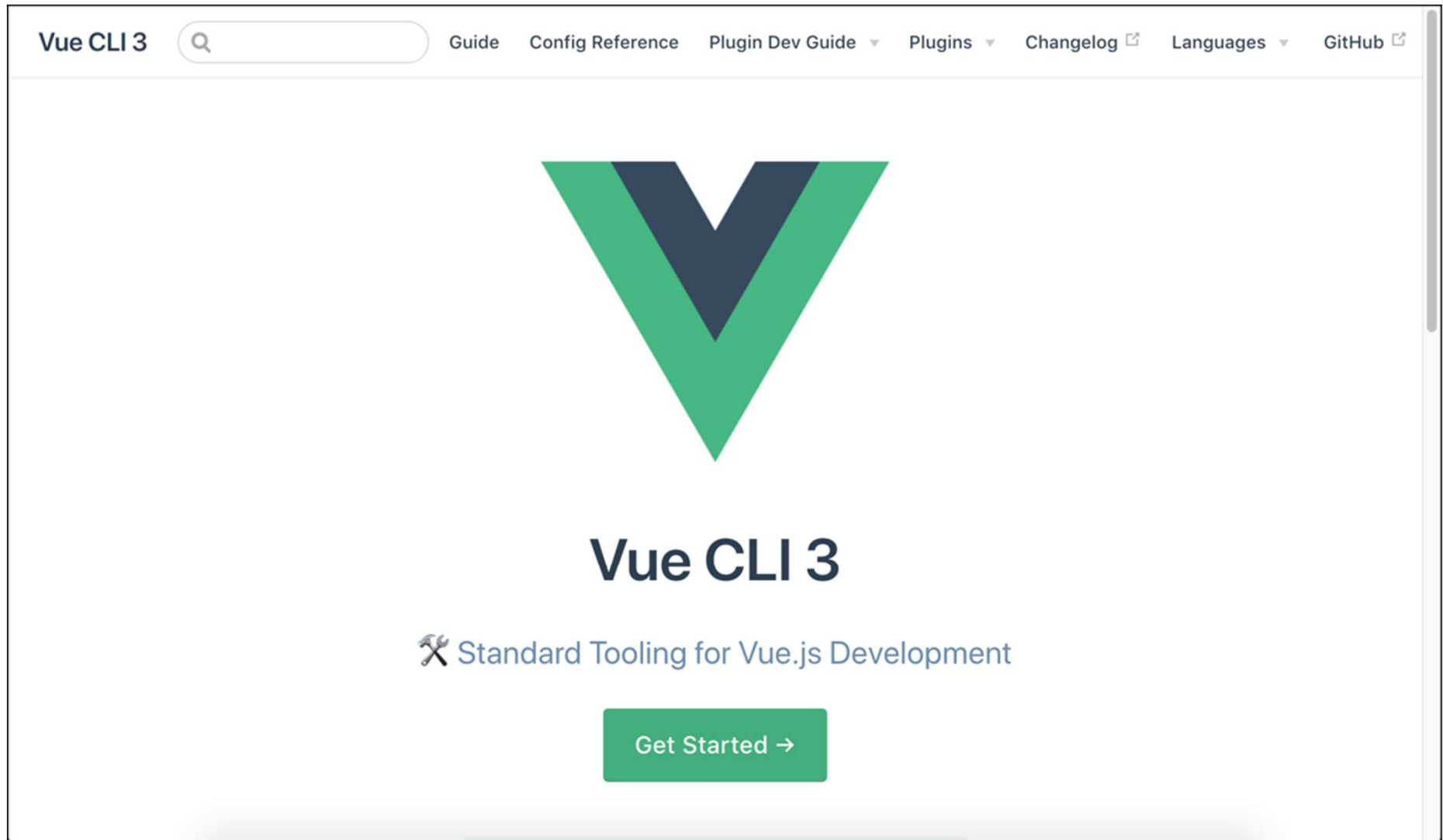
# Vue CLI

- Scaffold new projects
- Add routing
- Add State management and so on
- Answer prompts when creating a new project
- <https://cli.vuejs.org/>

```
npm install -g @vue/cli
```



[cli.vuejs.org](https://cli.vuejs.org)



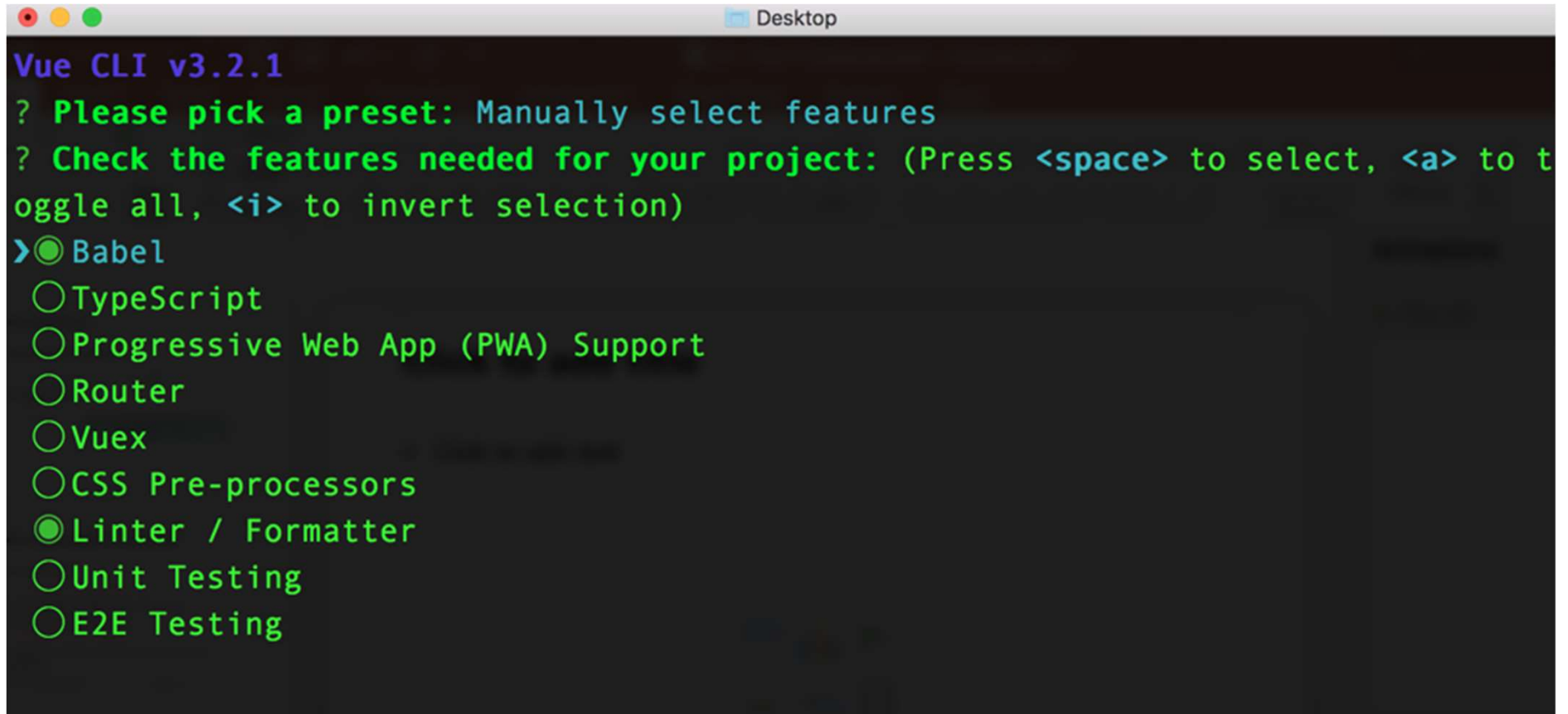
# Installation of @vue/cli

```
MacBook-Pro:~ PeterKassenaar$ npm install -g @vue/cli
npm WARN deprecated hoek@5.0.4: This version is no longer maintained. Please upgrade to the latest version.
npm WARN deprecated cross-spawn-async@2.2.5: cross-spawn no longer requires a build toolchain, use it instead
MacBook-Pro:~ PeterKassenaar$ vue --version
3.1.3
MacBook-Pro:~ PeterKassenaar$
```

# We're using the command line here

- Main command
  - `Vue create <app-name>`
- The CLI creates a folder with name for you
- Answer the prompt/questions
  - `Manually select features`
- Plugins can create / add their own features and questions
- You can add stuff (`router`, `vuex`) later on.

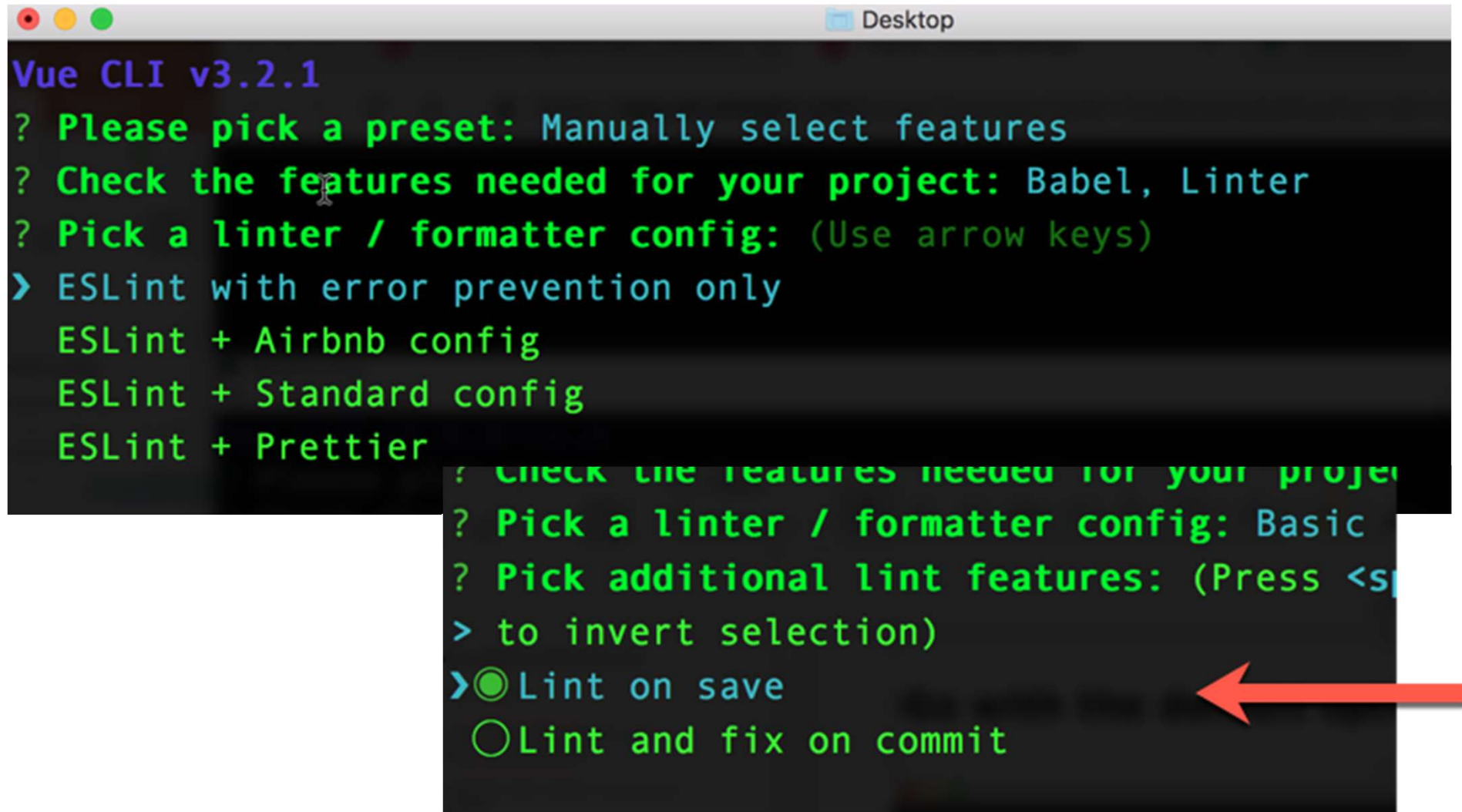
# vue create my-vue-project



```
Vue CLI v3.2.1
? Please pick a preset: Manually select features
? Check the features needed for your project: (Press <space> to select, <a> to toggle all, <i> to invert selection)
> ☒ Babel
  ☐ TypeScript
  ☐ Progressive Web App (PWA) Support
  ☐ Router
  ☐ Vuex
  ☐ CSS Pre-processors
  ☒ Linter / Formatter
  ☐ Unit Testing
  ☐ E2E Testing
```

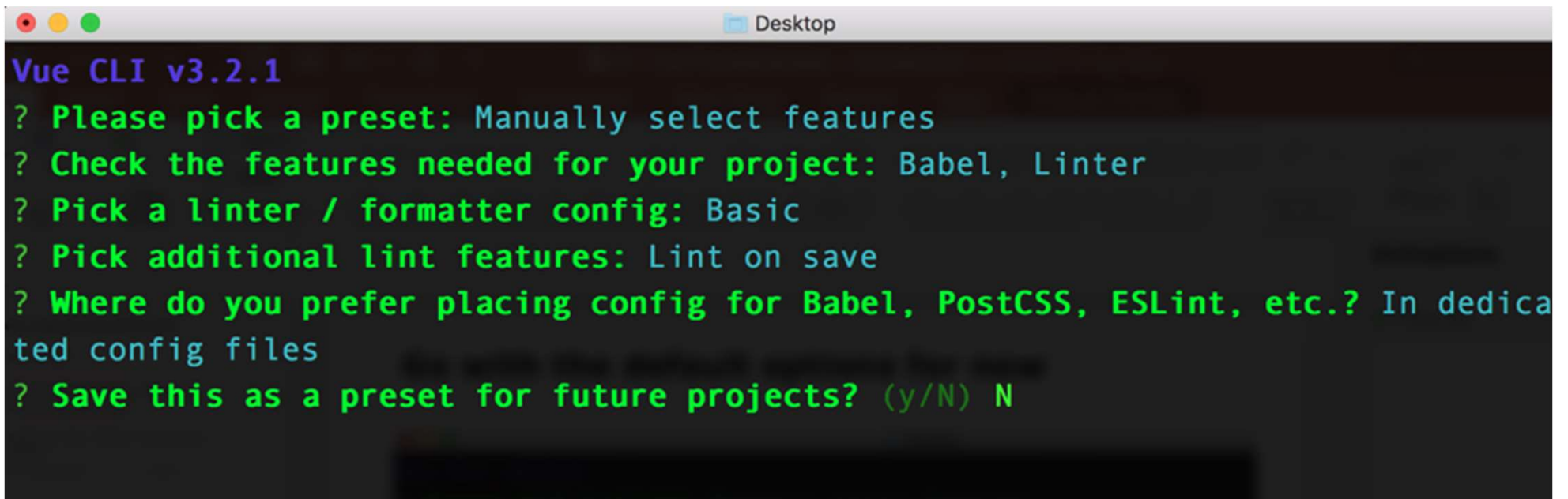
We're going to add Router and Vuex later

# Go with the default options for now



```
Vue CLI v3.2.1
? Please pick a preset: Manually select features
? Check the features needed for your project: Babel, Linter
? Pick a linter / formatter config: (Use arrow keys)
> ESLint with error prevention only
  ESLint + Airbnb config
  ESLint + Standard config
  ESLint + Prettier
? Check the features needed for your project: Babel, Linter
? Pick a linter / formatter config: Basic
? Pick additional lint features: (Press <space> to invert selection)
> ☒ Lint on save
  ☐ Lint and fix on commit
```

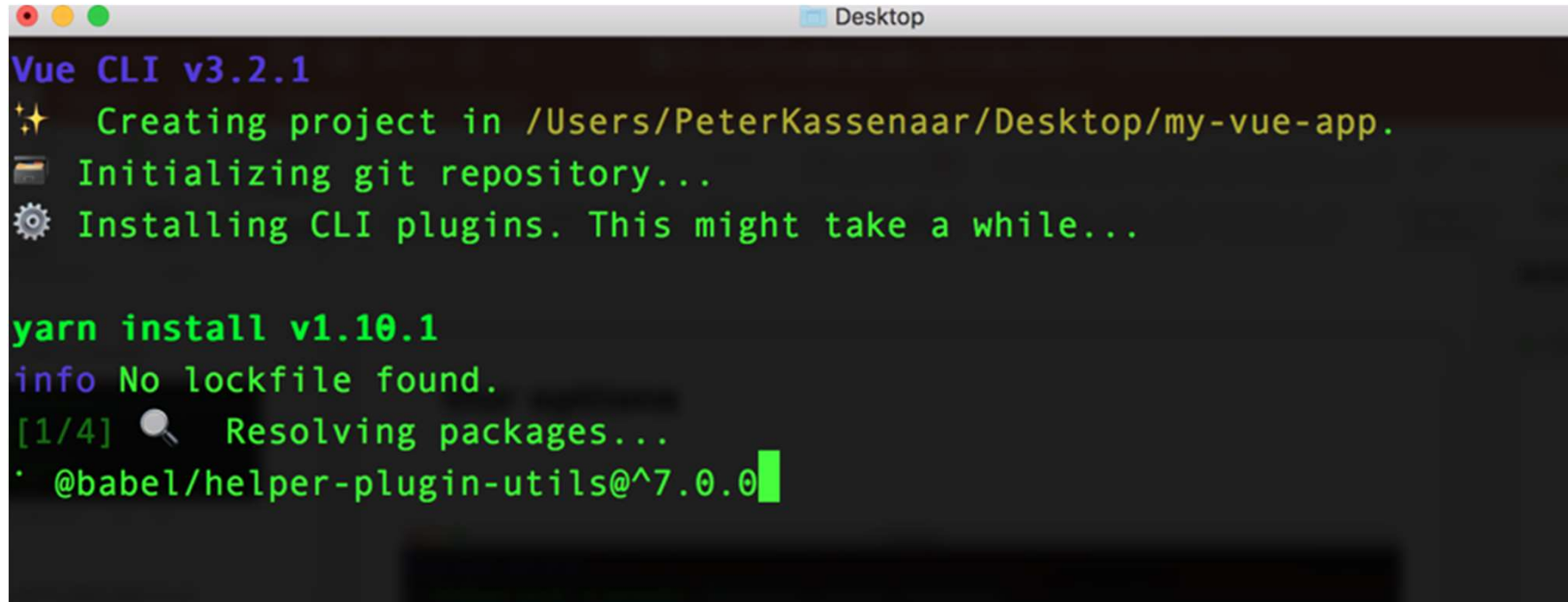
# Our options



A screenshot of a terminal window titled "Desktop" showing the Vue CLI v3.2.1 installation process. The terminal displays a series of prompts in green text, with user input in blue text. The prompts are: "Please pick a preset: Manually select features", "Check the features needed for your project: Babel, Linter", "Pick a linter / formatter config: Basic", "Pick additional lint features: Lint on save", "Where do you prefer placing config for Babel, PostCSS, ESLint, etc.? In dedicated config files", and "Save this as a preset for future projects? (y/N) N".

```
Vue CLI v3.2.1
? Please pick a preset: Manually select features
? Check the features needed for your project: Babel, Linter
? Pick a linter / formatter config: Basic
? Pick additional lint features: Lint on save
? Where do you prefer placing config for Babel, PostCSS, ESLint, etc.? In dedicated config files
? Save this as a preset for future projects? (y/N) N
```

# Creating the project...

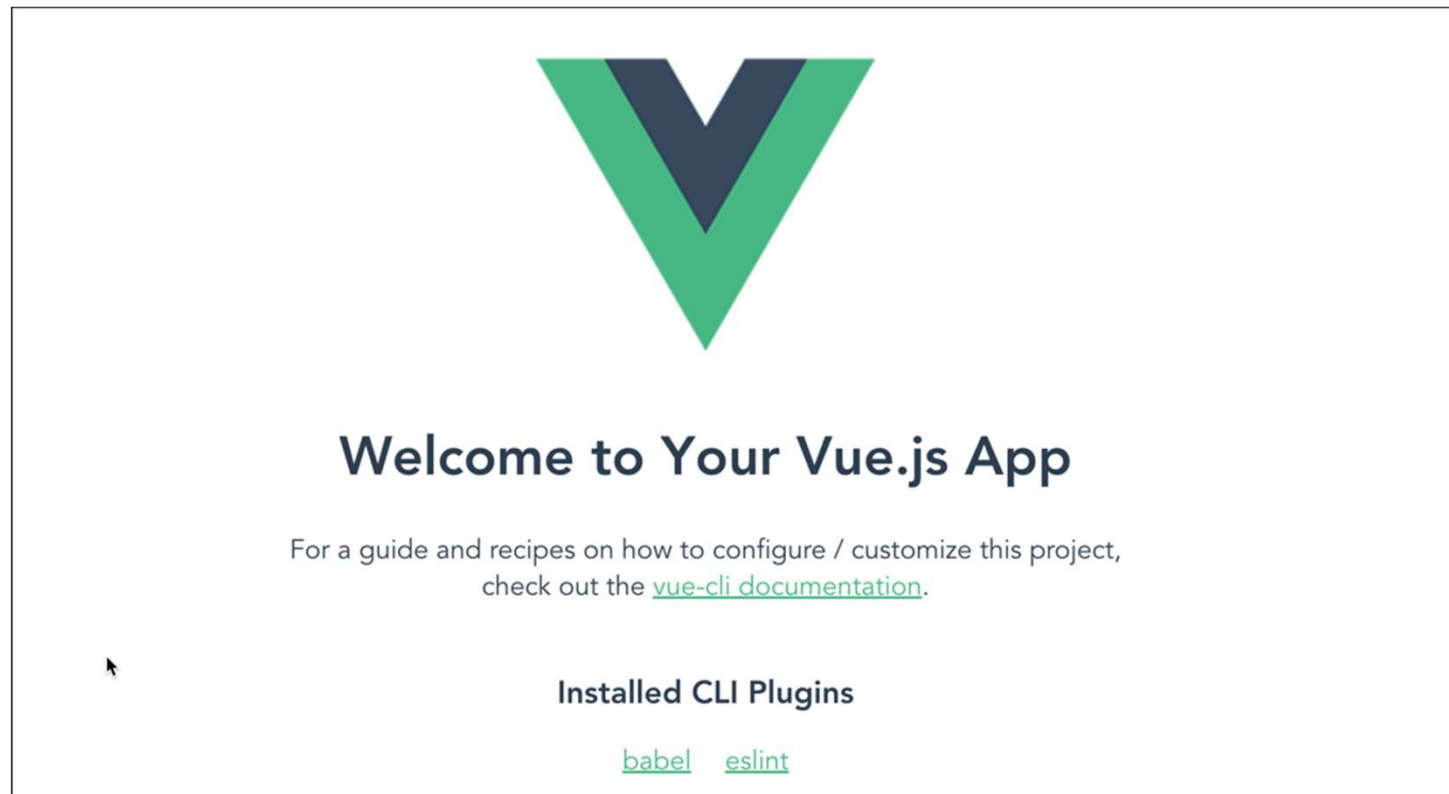
A terminal window titled 'Desktop' with a dark background and light green text. It shows the output of the 'vue create' command. The steps include creating the project in a specific directory, initializing a git repository, and installing CLI plugins. Below this, the 'yarn install' command is run, showing it's the first time installing (no lockfile found) and it's resolving packages. The first package resolved is '@babel/helper-plugin-utils@^7.0.0'.

```
Vue CLI v3.2.1
✨ Creating project in /Users/PeterKassenaar/Desktop/my-vue-app.
📁 Initializing git repository...
⚙️ Installing CLI plugins. This might take a while...

yarn install v1.10.1
info No lockfile found.
[1/4] 🔍 Resolving packages...
└─ @babel/helper-plugin-utils@^7.0.0
```

# Start default project

- `npm run serve`
- <http://localhost:8080>





# 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

# Components



# Vue.js kernconcepten

- Componenten
- Props
- Variabelen/data/state
- Methodes
- Volgende stappen
  - Routing
  - State management
  - Deployment
  - Testing

**Doelen gehaald?**

*High level overview van Vue.js*

*Enige praktische kennis van  
Vue.js*

**Q & A**

# StudieMix

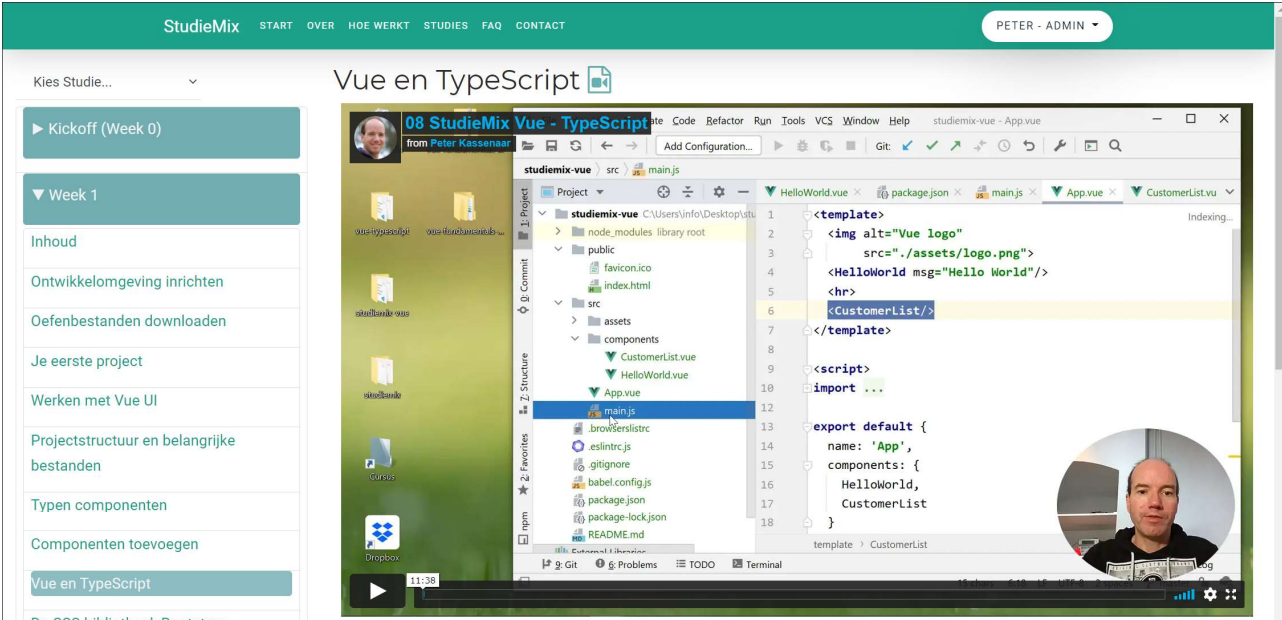
*Leren via zelfstudie, maar wel met begeleiding? StudieMix.*



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# Speciale aanbieding – 50% korting

Interesse? Stuur mij een mailtje ([info@kassenaar.com](mailto:info@kassenaar.com)) en noem dat je StudieMix kent van de *Van Duuren Media-presentatie over Vue.js* – dan doe ik je een interessant prijsvoorstel ;-)



The screenshot displays a video player interface for a course titled "Vue en TypeScript" by Peter Kassenaar. The video content shows a code editor with a Vue.js project structure. The project structure includes a "src" directory with "main.js", "App.vue", and "CustomerList.vue". The "main.js" file is highlighted, showing the following code:

```
1 <template>
2 
4 <HelloWorld msg="Hello World"/>
5 <hr>
6 <CustomerList/>
7 </template>
8
9 <script>
10 import ...
11
12 export default {
13   name: 'App',
14   components: {
15     HelloWorld,
16     CustomerList
17   }
18 }
```

The video player includes a sidebar with a table of contents for "Week 1" and "Week 2". The "Week 1" section includes:

- Kickoff (Week 0)
- Week 1
  - Inhoud
  - Ontwikkelomgeving inrichten
  - Oefenbestanden downloaden
  - Je eerste project
  - Werken met Vue UI
  - Projectstructuur en belangrijke bestanden
  - Typen componenten
  - Componenten toevoegen
  - Vue en TypeScript**
  - De CSS-bibliotheek Bootstrap toevoegen
  - Eindopdracht week 1
- Week 2

The video player also features a video feed of the instructor, Peter Kassenaar, in the bottom right corner. The video title is "08 StudieMix Vue - TypeScript" and the video duration is 11:38.

TypeScript is een toevoeging die veel wordt gebruikt in JavaScript-projecten. Ook in Vue kun je TypeScript (TS) toevoegen. Het is echter niet verplicht.

Ook in nieuwere versies zoals Vue 3 is TS een *opt-in keuze*. Je bent niet verplicht het te gebruiken. In deze studie gebruiken we verder geen TypeScript, maar de video laat wel zien hoe je eventueel TS kunt inzetten in je eigen projecten.

woensdag 14 april 2021



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