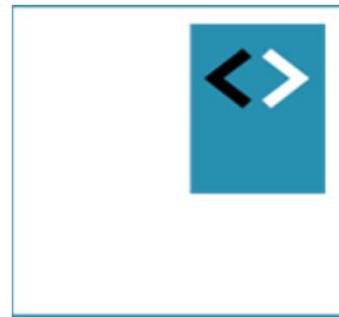




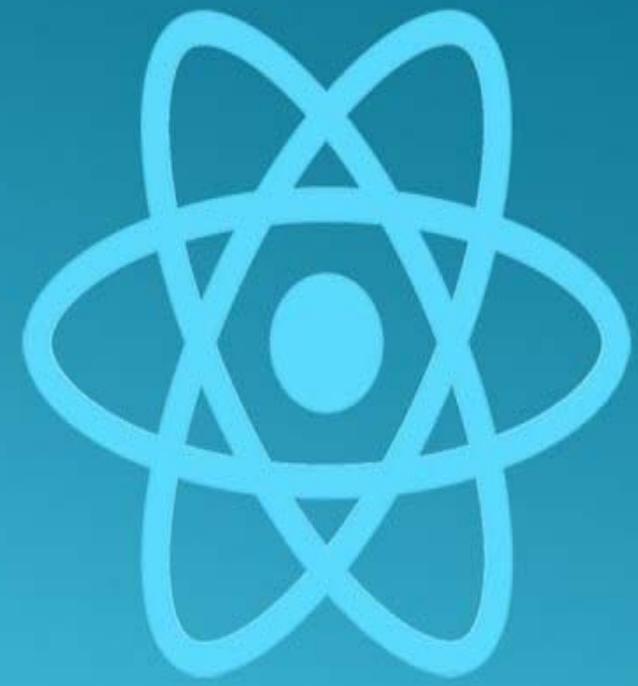
Working Spirit detachering

Working Spirit > Nieuws > Frontend Fear Meetup

Meetup – “Frontend Fear”



Peter Kassenaar –
info@kassenaar.com



A

V



Albert Heijn: boodschappen doen [+](#)

ah.nl

Inloggen [Producten](#) [Bonus](#) [Recepten](#) [Winkels](#) [Acties](#) [Klantenservice](#) Meer [Zoeken naar..](#) [Online bestellen](#) [0](#)

Koopzegels in de winkel of bij je online bestelling?

Meld je aan met de AH app >

Heineken Original **5,98**
2=1
6 x 33 cl

Dr. Oetker Ristorante pizza salami **2,25**
3 VOOR 5,00
320 g

AH Hummus **2,00**
2 VOOR 3,39
200 g

Page Origineel schoon toiletpapier **11,79**
VOOR 11,79
18,45
40 rollen

Vanish Oxi Advance Multi Power

Ontdek nu de nieuwe formule! >

Maak elk uur kans op een bon voor de horeca

Bekijk de actie >

#HELP DE HORECA

Like button



Het is drukker dan normaal door de coronamaatregelen en extra bestellingen. Sommige pakketten zijn langer onderweg. We doen ons best om alles zo snel mogelijk te bezorgen. Kijk hier voor meer [informatie over corona en onze bezorging](#).

Geen postzegel bij de hand?

Gebruik de postzegelcode!

Lees meer



Barcode of niet-thuiscode

Land van de ontvanger

Postcode Zoeken



Volg je pakket



Postcode zoeken



Versturen



PostNL-punt



Nu tot 5 maanden korting

+ 12 maanden gratis Ziggo Sport Totaal of Movies & Series XL

Vergelijk pakketten



Producten

Alles-in-



>

Internet &

>



Service

Storingen

>

Wifi verbeteren

>



Veelgezocht

Aanbiedingen

>

Gigabit

>

Peter Kassenaar

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

www.kassenaar.com

info@kassenaar.com

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

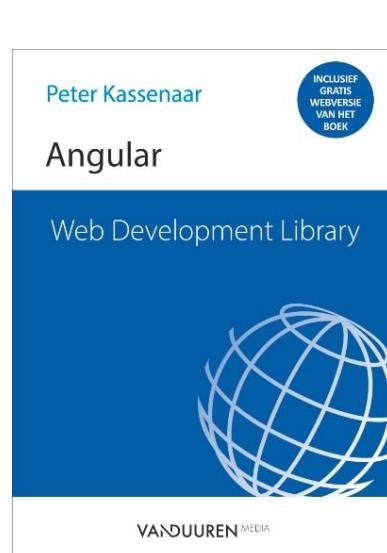
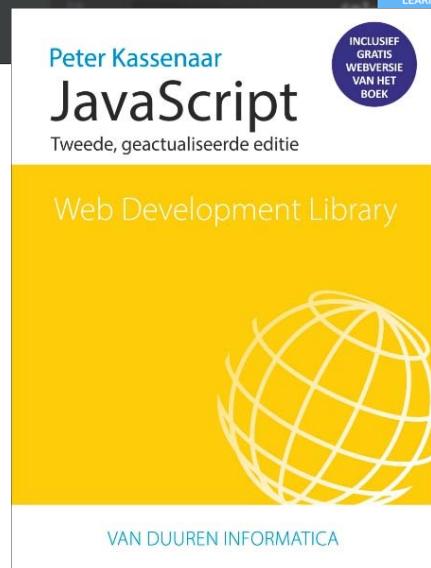


World-class Vue training in Dutch and English
Live classrooms - focused on today's developers

LEARN MORE

World-class Angular training in Dutch and English
Live classrooms - focused on today's developers

LEARN MORE SIGN UP



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Reacttraining.nl

World-class React training in Dutch and English

Learn more

We teach React

www.vuetraining.nl | www.angulartraining.nl | www.reacttraining.nl

Peter Kassenaar



Vue.js

Web Development Library



VANDUUREN MEDIA

github.com/PeterKassenaar/working-spirit

The screenshot shows the GitHub repository page for `PeterKassenaar / working-spirit`. The repository has 2 commits, 1 branch, 0 packages, 0 releases, 1 contributor, and is licensed under MIT. The latest commit was made 12 days ago. The README.md file contains the text "working-spirit" and a description of the repository's purpose.

Octotree

PeterKassenaar / working-spirit

Code Issues 0 Pull requests 0 Actions Projects 0 Wiki Security Insights Settings

Slides and sample applications on the workshop Frontend. Working Spirit, Deventer, March 2020

Manage topics

2 commits 1 branch 0 packages 0 releases 1 contributor MIT

Branch: master New pull request Create new file Upload files Find file Clone or download

PeterKassenaar added sample applications Latest commit 386919c 12 days ago

sample applications added sample applications 12 days ago

.gitignore added sample applications 12 days ago

LICENSE Initial commit 12 days ago

README.md Initial commit 12 days ago

README.md

working-spirit

Slides and sample applications on the workshop Frontend. Working Spirit, Deventer, March 2020

High level overview of frontend frameworks and the landscape

Some practical knowledge of Vue, React and Angular

About you...



Tell us a little bit about yourself

How many of you do frontend stuff?

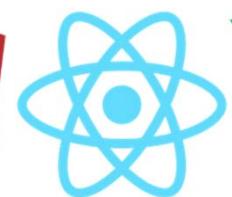
How many of you do backend stuff?

Full-stack?

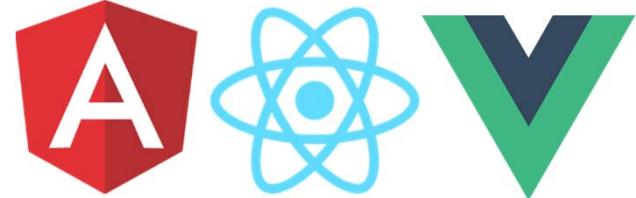
Have you worked with HTML, CSS, JavaScript,

TypeScript and/or other (web)languages?

Knowledge of front-end frameworks?



Agenda



1. “Theory” ~18:30

- Intro frameworks, the frontend Landscape,
- Similarities, differences
- Tooling: CLI's, DevTools, Style Guides

* * * * ca. 19:15 Break * * * *

2. “Practical” – ~19:30-20:15

- Live coding - building the same app, three times
- Components, data binding, props, events
- Using external data en API's
- (Build & Deploy)

3. Q & A

A night-time satellite view of Earth from space, showing city lights and clouds.

Questions?

Addressing the “WHY” question!

WHY, would we want to use a frontend framework.

It is all HTML, CSS and JavaScript right?

Rethorical question:

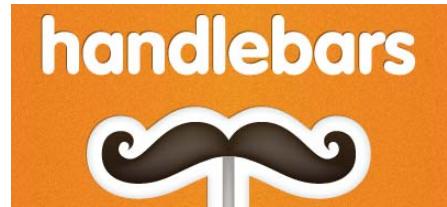
“Do we want to go back,

to the jQuery days?”

speed, not re-inventing the wheel, reusability of code, consistency, community, performance, testing....

Old school web apps

HTML + templates



Data Binding



Routing



DOM-manipulation



Mobile development

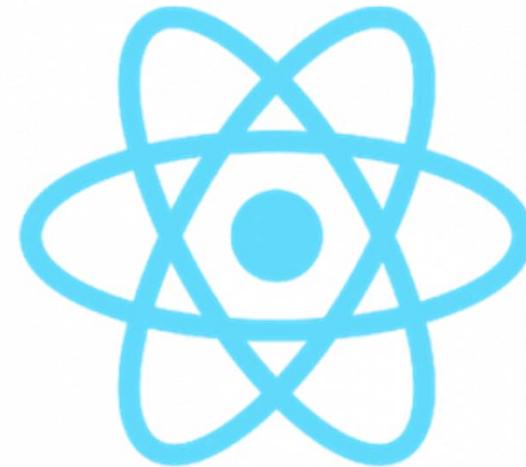


...

“The Frankenstein Framework”



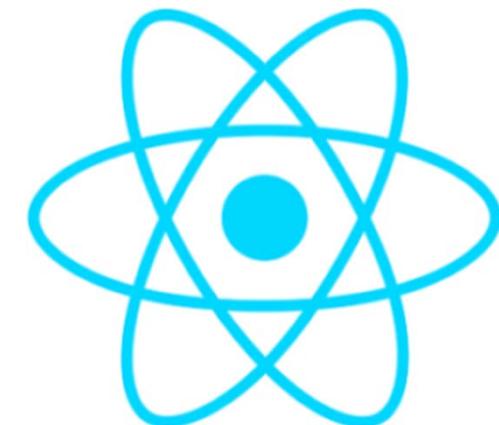
Front-end Frameworks – the big four



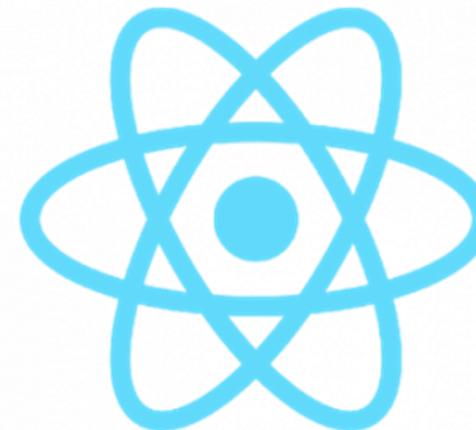
But wait... there's more



SVELTE

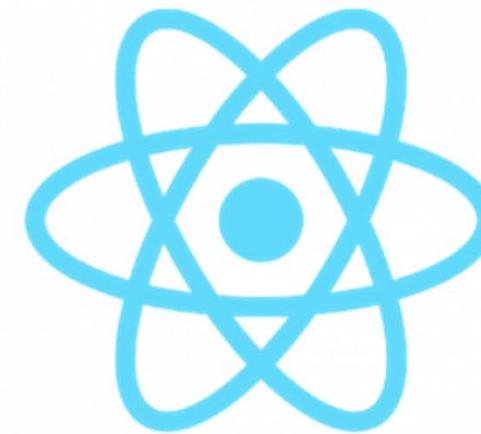


Today's focus



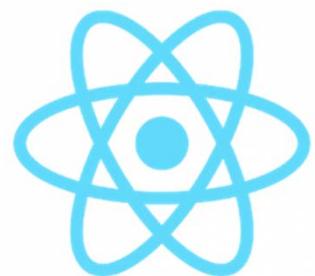
React

Similarities

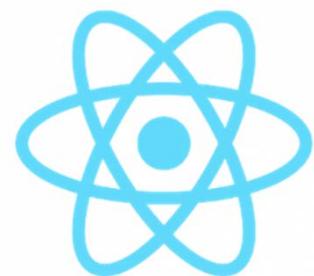


React

*All frameworks have a **surprisingly similar** point of departure*



Single
Page
Applications



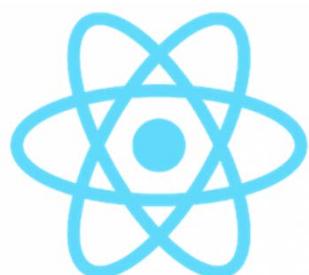
Components



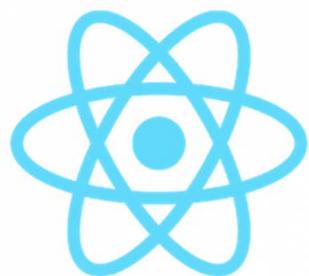
Data binding



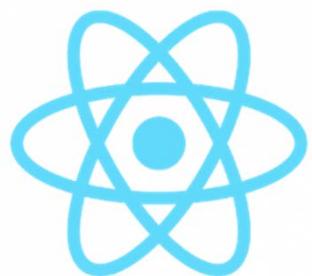
Props



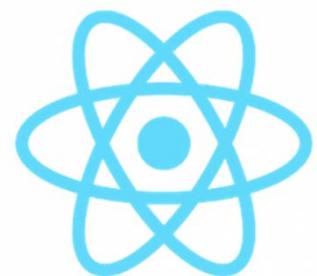
Events



Routing



State management



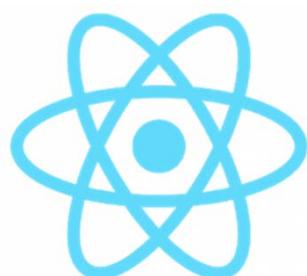
Testing



Huge ecosystem



Huge community

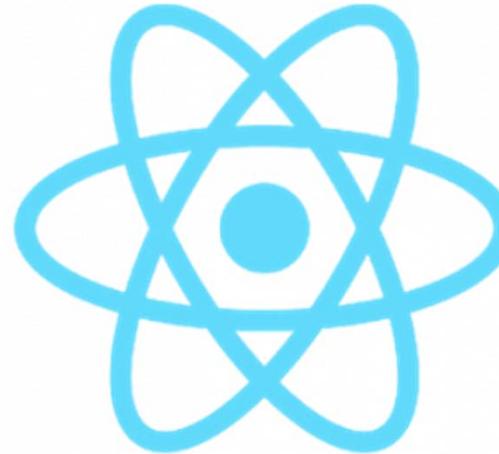


High adaptation rate

Differences (apart from syntax)



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



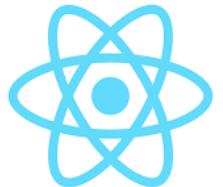
React

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

Frameworks vs. Libraries



- Framework (Angular, Vue)
- Concise (less code)
- Template centered
- Separate files
- Non-standard (html, elements, shadow DOM)
- Community backing (except Angular)
- React: Library
- Explicit (more coding)
- JavaScript Centered
- Single File
- Non standard (JSX, shadow DOM)
- Corporate backing





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Search

One framework.
Mobile & desktop.

GET STARTED

#NGCONF2020

Join us for ng-conf
April 1st-3rd, 2020

LEARN MORE

DEVELOP ACROSS ALL PLATFORMS

Learn one way to build applications with Angular and reuse your code and abilities to build apps for any deployment target. For web, mobile web, native mobile and native

facebook

 React

Docs

Tutorial

Blog

Community

Search

v16.13.0

 Languages

[GitHub](#)

React

A JavaScript library for building user interfaces

[Get Started](#)

[Take the Tutorial >](#)

Declarative

React makes it painless to create interactive UIs. Design simple views for each state in your application, and React will efficiently update and render just the right components when your data

Component-Based

Build encapsulated components that manage their own state, then compose them to make complex UIs.

Learn Once, Write Anywhere

We don't make assumptions about the rest of your technology stack, so you can develop new features in React without rewriting existing code.

React – Created by Facebook

Vue.js – Created by Evan You

The screenshot shows Evan You's Patreon page for the Vue.js project. At the top, there's a navigation bar with 'PATREON' on the left, a search bar with 'Find a creator', and links for 'Create On Patreon', 'Explore Creators', 'Sign Up', and 'Log In'. Below the header is a large circular badge for Vue.js, featuring a green gradient background with a white 'V' in the center. The text 'FINEST QUALITY JAVASCRIPT' is curved along the top edge, and 'EST. 2014' is at the bottom. To the left of the badge is a circular profile picture of Evan You wearing Google Glass. Below the badge, the text 'Evan is creating Vue.js' is displayed. The main content area has tabs for 'Overview' (which is active) and 'Posts'. A prominent red button on the right says 'BECOME A PATRON'. On the left, a sidebar shows '227 patrons' and '\$16,646 per month'. It includes social sharing buttons for Facebook and Twitter, and links for 'SHARE' and 'TWEET'. Below this is a 'GOALS' section with a 'View all' link and navigation arrows. The central content area features a large green and blue 'V' logo, followed by two paragraphs of text about invoicing and one-time donations. The right side contains a 'TIERS' section with 'Backer' and 'Generous Backer' levels, each with their respective descriptions and a 'JOIN \$10 TIER' button.

Evan is creating Vue.js

OVERVIEW

BECOME A PATRON

227 patrons

\$16,646 per month

+ FOLLOW ▾ SHARE

SHARE TWEET

GOALS View all < >

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).

If you are not comfortable with recurring pledges, I also accept one-time donations via PayPal or crypto currencies :)

Vue.js is a front-end framework that is simple to use yet powerful in nature.

The project focuses on making some of the best ideas in web UI development (components, declarative UI, hot-reloading, time-travel

TIERS

Backer
\$10 or more per month
Your name will be put in backers.md in the Vue.js repository.

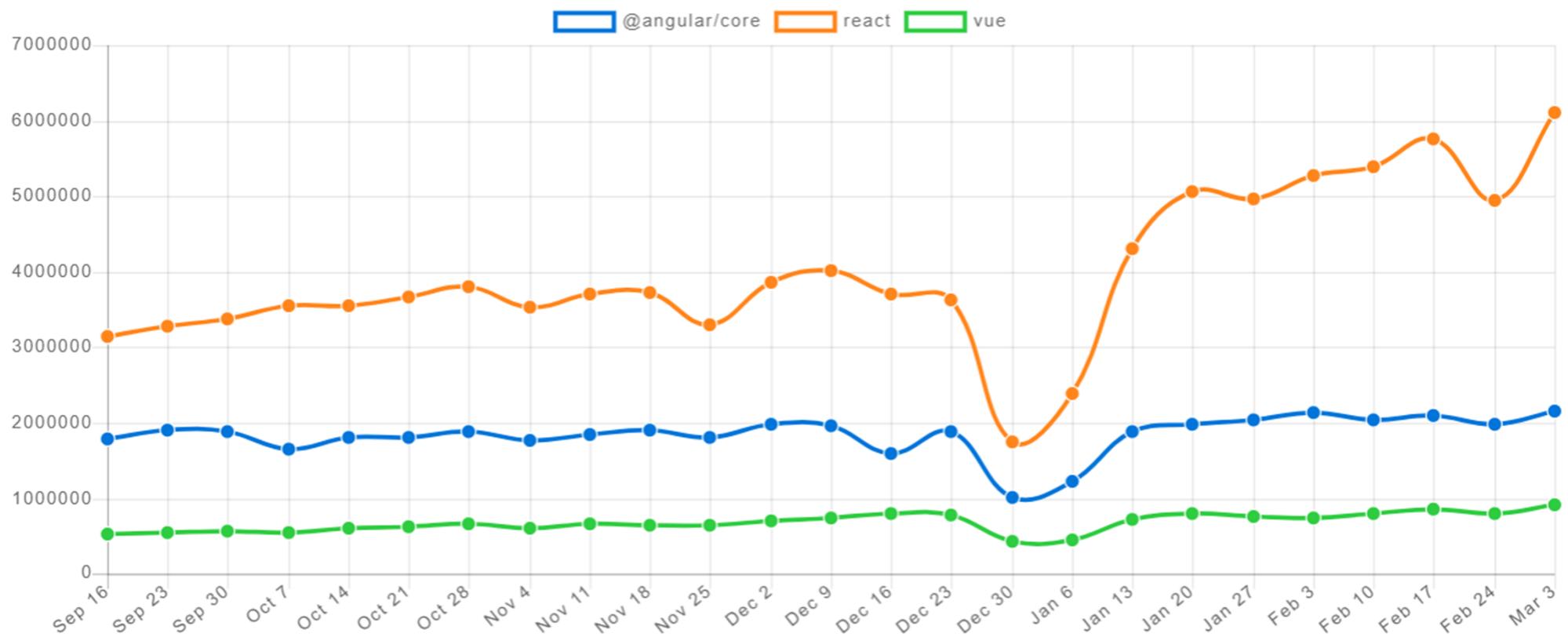
JOIN \$10 TIER

Generous Backer
\$50 or more per month
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

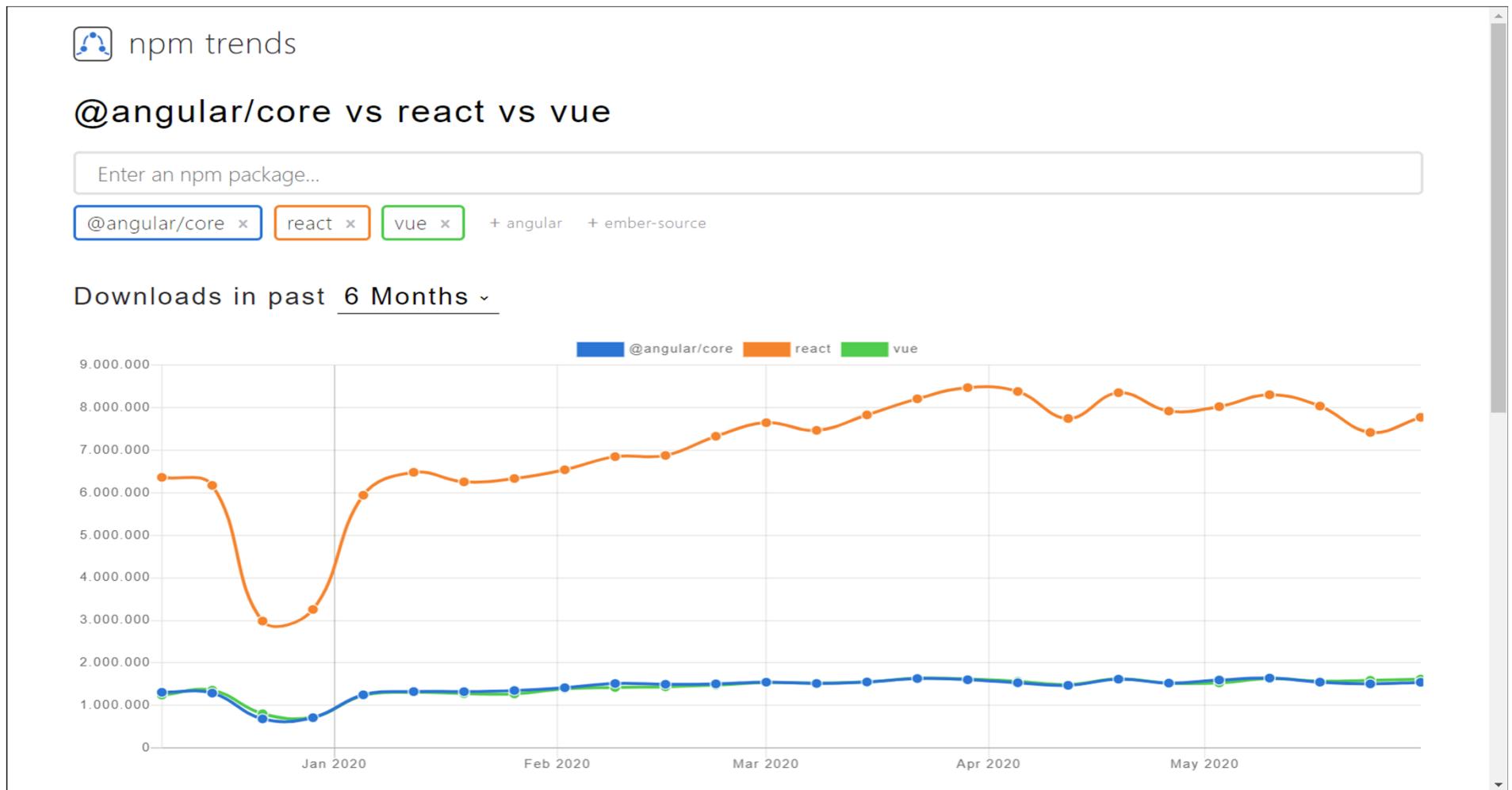
A 2019 comparison

Downloads in past 6 Months ▾



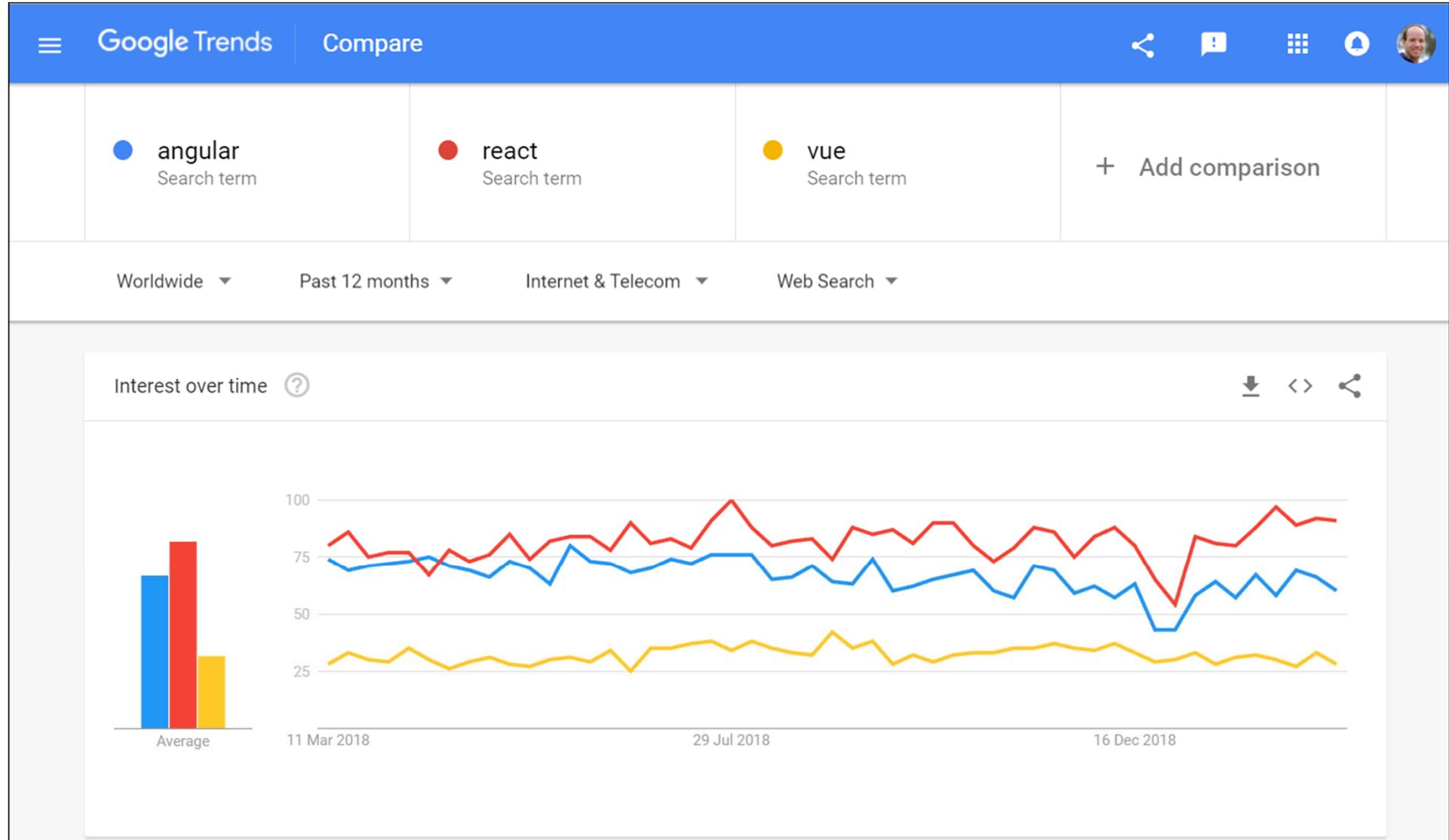
<https://www.npmtrends.com/@angular/core-vs-react-vs-vue>

A 2020 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>

Giststar rankings

Gitstar Ranking Users Organizations Repositories GitHub username Search Sign in with GitHub

Repositories Ranking

1 2 3 ... >

(Δ) 1. freeCodeCamp/freeCodeCamp	★ 298396
▼ 2. vuejs/vue	★ 129161
(B) 3. twbs/bootstrap	★ 128833
(F) 4. facebook/react	★ 124937
↑TF 5. tensorflow/tensorflow	★ 123450
Ebook 6. EbookFoundation/free-progra...	★ 118765
OWL 7. sindresorhus/awesome	★ 99459
DB 8. d3/d3	★ 83265
▲ 51. zeit/next.js	★ 35904
⌚ 52. moment/moment	★ 35598
📦 53. nodejs/node-v0.x-archive	★ 35577
Ionic 54. ionic-team/ionic	★ 35555
🐸 55. typicode/json-server	★ 35389
👤 56. mrdoob/three.js	★ 35013
🦀 57. rust-lang/rust	★ 34749
📡 58. shadowsocks/shadowsocks-win...	★ 34747

<https://gitstar-ranking.com/repositories>



“Vue is used by Alibaba, Baidu, Nintendo, GitLab, L’Oréal and many others”

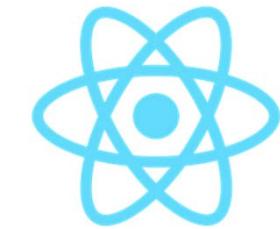
The screenshot shows the homepage of madewithvuejs.com. At the top, there's a navigation bar with 'Collection' and 'Blog' tabs, a 'CATEGORIES' dropdown, a search icon, and social sharing buttons for LinkedIn and Twitter. A large green button on the right says 'SUBMIT A PROJECT'. Below the navigation is a logo consisting of a green triangle inside a circular compass-like frame. The text 'made with `vue.js`' is displayed below the logo. A prominent banner at the bottom of the page announces a 'CYBER MONDAY @ Creative Tim: 30 Templates for 90% off!' with a 'GET IT' button. To the right, a project card for 'My Nintendo' is shown. It features a red screenshot of the My Nintendo website with its logo and a 'Get started with My Nintendo!' call-to-action. Below the screenshot, it says 'by Armin & Melanie'. To the right of the screenshot, the project details are listed: 'My Nintendo', 'Reward System for Nintendo accounts', '#Websites #WebApps', '2.810' (rating), and a description 'A handy FilePond adapter'.

<https://madewithvuejs.com/>



“Angular is used by Delta Airlines, Google, Mercedes Benz and more”

A screenshot of the Delta Airlines website's search interface. At the top, there is a navigation bar with links for Alerts & Advisories, Coronavirus Travel Updates, View All, DELTA logo, BOOK, CHECK-IN, MY TRIPS, FLIGHT STATUS, Travel Info, SkyMiles, More, SIGN UP, LOG IN, a notification bell with a red '3', and a search icon. Below the navigation is a search form with "AMS" as the departure city and "To" as the destination placeholder. It shows options for Round Trip, Depart - Return, 1 Passenger, and a large red search button with a white arrow. Underneath the search form are filters for SEARCH OPTIONS: Shop with Miles, Refundable Fares, and My dates are flexible, along with an Advanced Search link. The main background features a smiling flight attendant in uniform interacting with a passenger on an airplane. Text overlays on the left side read "PRIORITIZE YOUR PEACE OF MIND" and "Early boarding, faster deplaning, dedicated bin space, and more legroom in Delta Comfort+®.".



“React is used by many Fortune 500 companies, including Airbnb, BBC, Instagram and Dropbox”

The screenshot shows the Dropbox web interface at [dropbox.com/home](https://www.dropbox.com/home). The left sidebar includes links for Home, Files, Paper, Transfer (Beta), and Showcase. The main area displays a 'Suggested for you' section with four folder icons: 'kassenaar' (with 'slides'), 'Oefeningen' (with 'cursus'), 'JavaScript 101' (with 'Fronteers'), and another 'kassenaar' folder (with 'slides'). Below this is a 'Starred' section with a note about starred items. A recent file, '10- React Fundamentals - introduction.pptx', is listed under 'Recent'. On the right side, there's a 'Create new file' button and options for 'Upload files', 'Upload folder', 'New shared folder', and 'Create Paper doc'. A 'Search' bar and user profile icons are also present.

Home

Files

Paper

Transfer Beta

Showcase

Improve your security with an account checkup. [Get started](#)

Try Dropbox Business

Search

Home

Suggested for you ⓘ

Hide

Create new file

Upload files

Upload folder

New shared folder

Create Paper doc

Starred

Hide

When you star items, they'll show up here for easy access. [Learn more](#)

Recent ▾

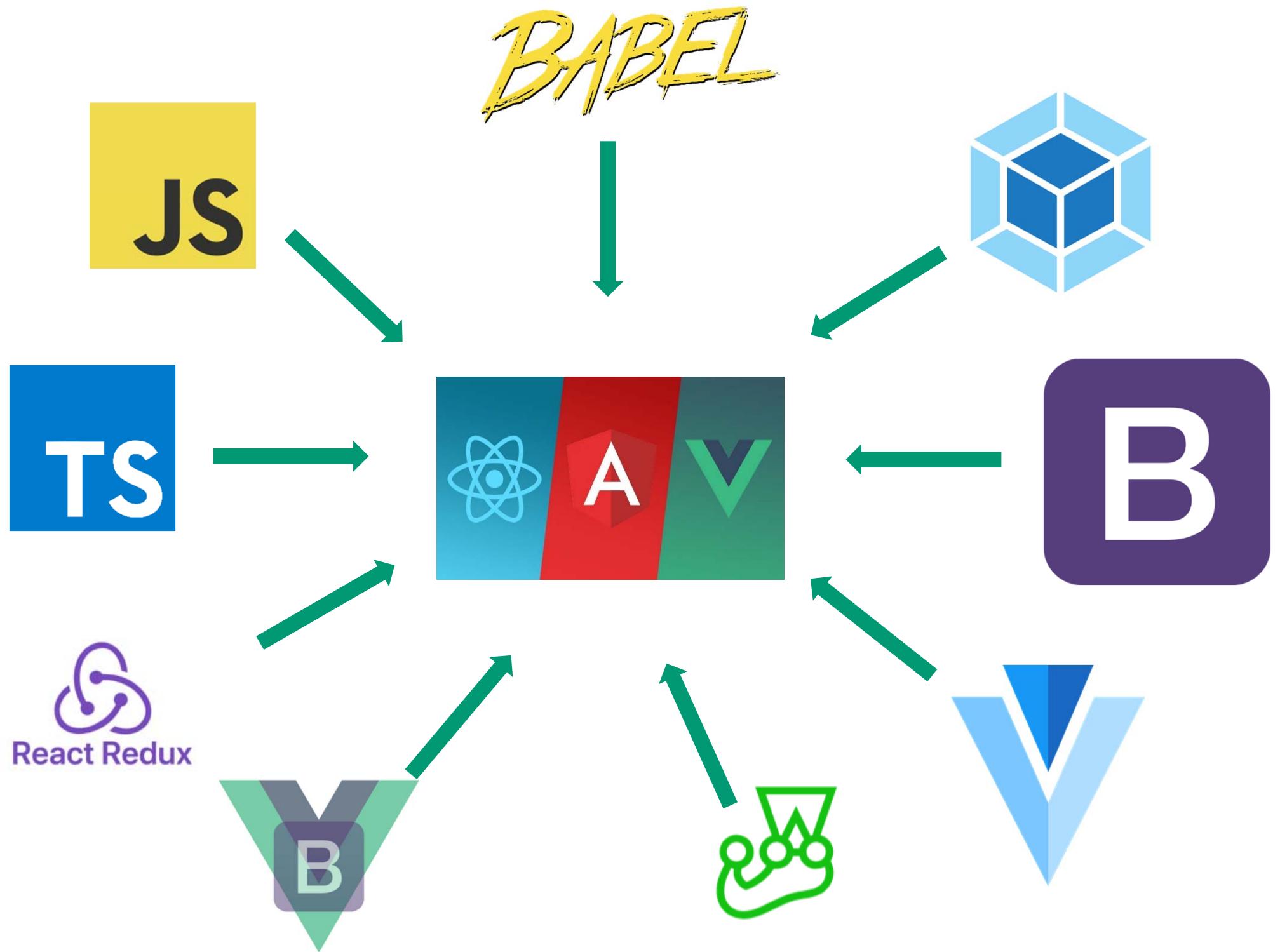
10- React Fundamentals - introduction.pptx
Edited 19 mins ago · slides

...



The Frontend ecosystem

Frameworks are not isolated/not living on an island

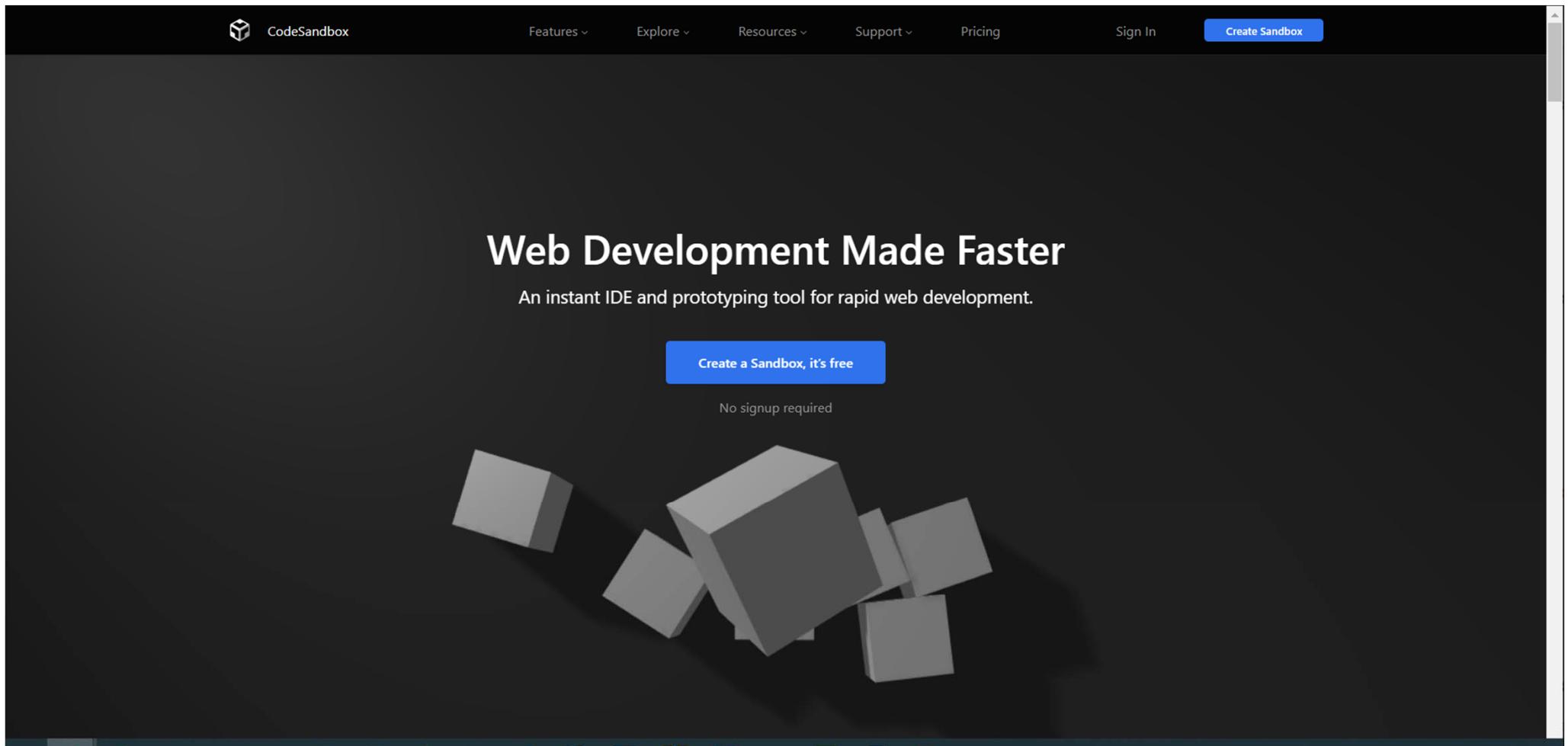


Additional services, options, etc.

The image displays four separate web application interfaces side-by-side:

- Amplify Framework**: An orange-themed landing page featuring the text "The foundation for your cloud-powered mobile & web apps". It includes a "GET STARTED" button and icons for Apple, Android, and the web.
- Cloudinary**: A dark-themed landing page with the Cloudinary logo and navigation links for "About", "Blog", "Contact", "SOLUTIONS", "PRICING", and "CLOUDINARY".
- Vue Mastery**: A light blue-themed landing page for learning Vue.js, with the text "The ultimate guide for Vue". It has "Courses" and "Pricing" links.
- CodeSandbox**: A dark-themed code editor landing page with the text "The online code editor for Web". It features a large "OPEN EDITOR" button and a "EXPLORE EXAMPLES" link.

Codesandbox.io



<https://codesandbox.io/>

Online prototyping and development tool – develop in the cloud, no installation necessary

And more....

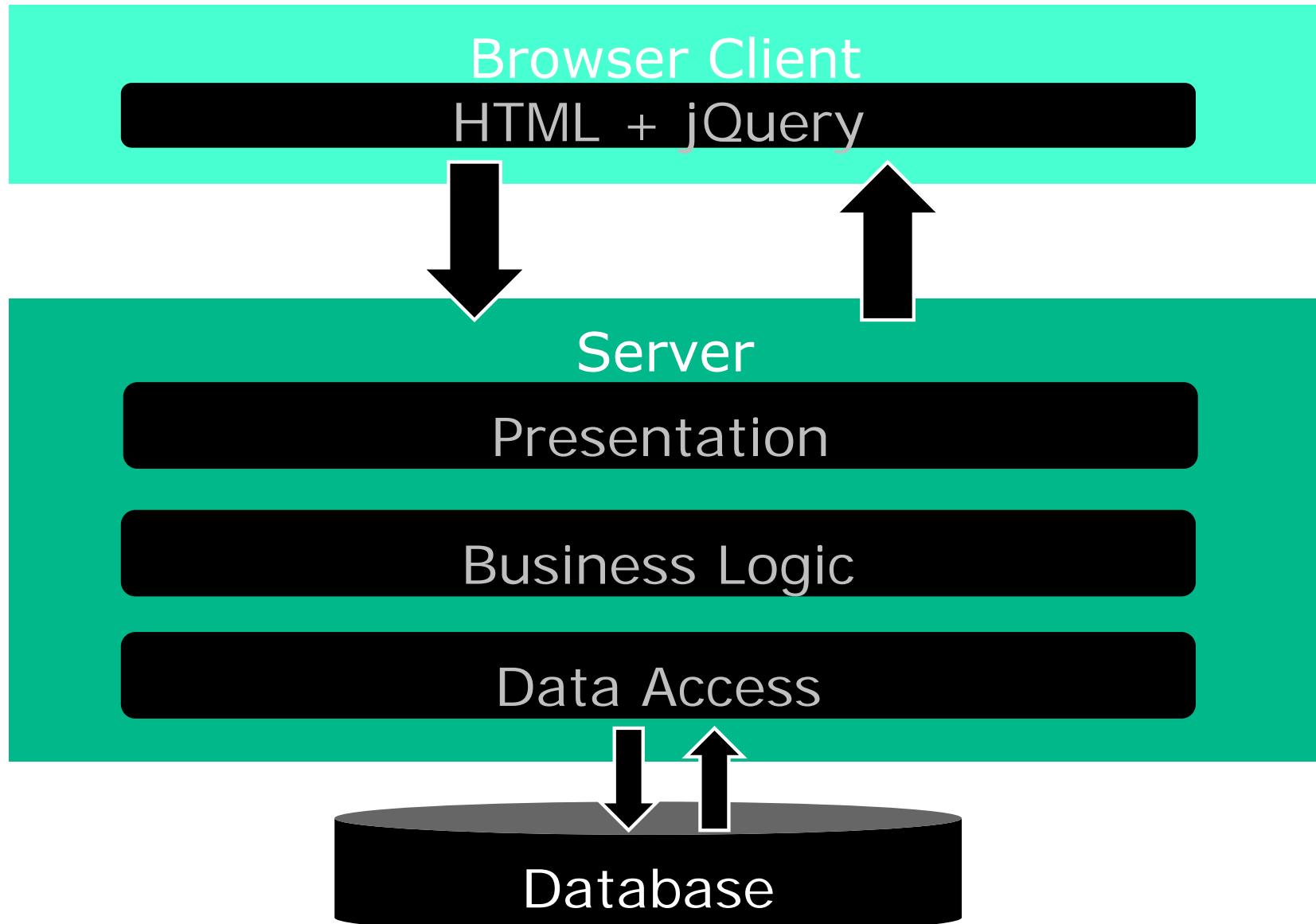


Framework application structure

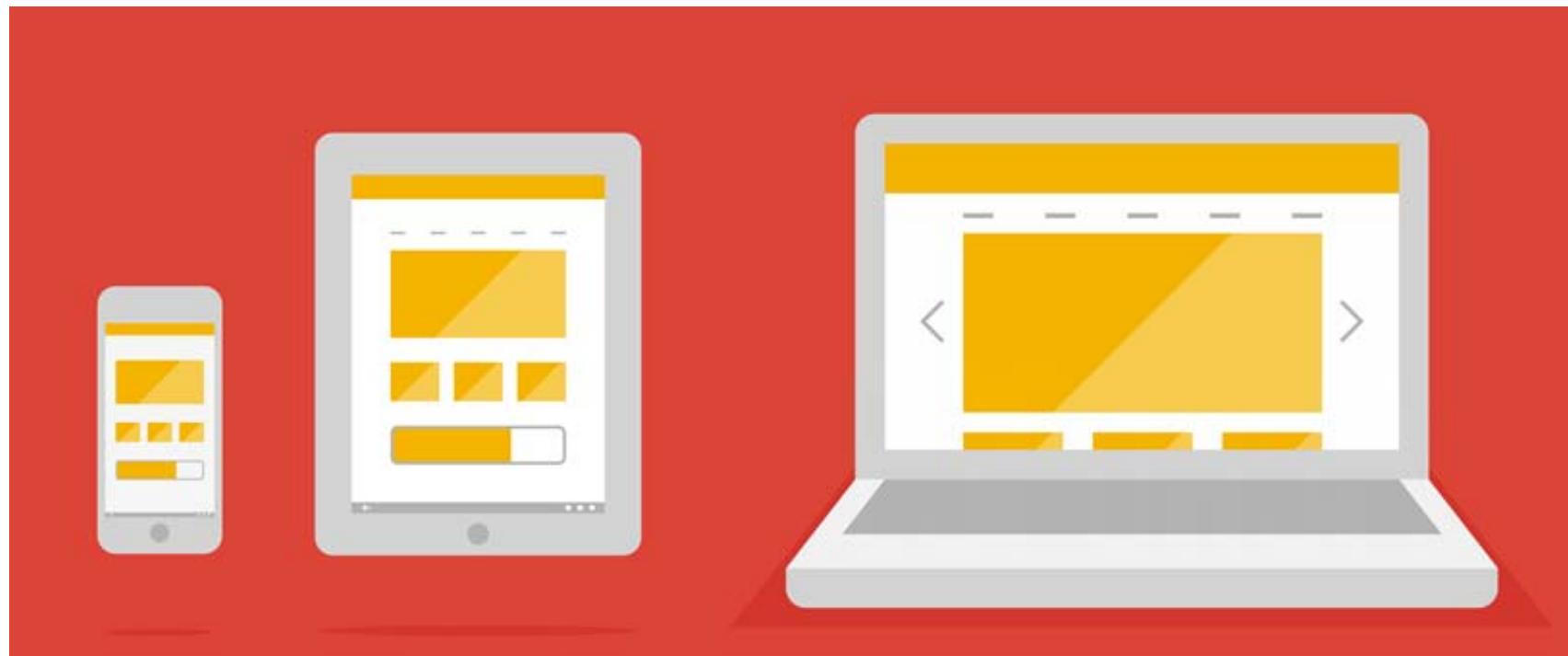
Getting a conceptual understanding of the SPA
architecture

Conventional Web App

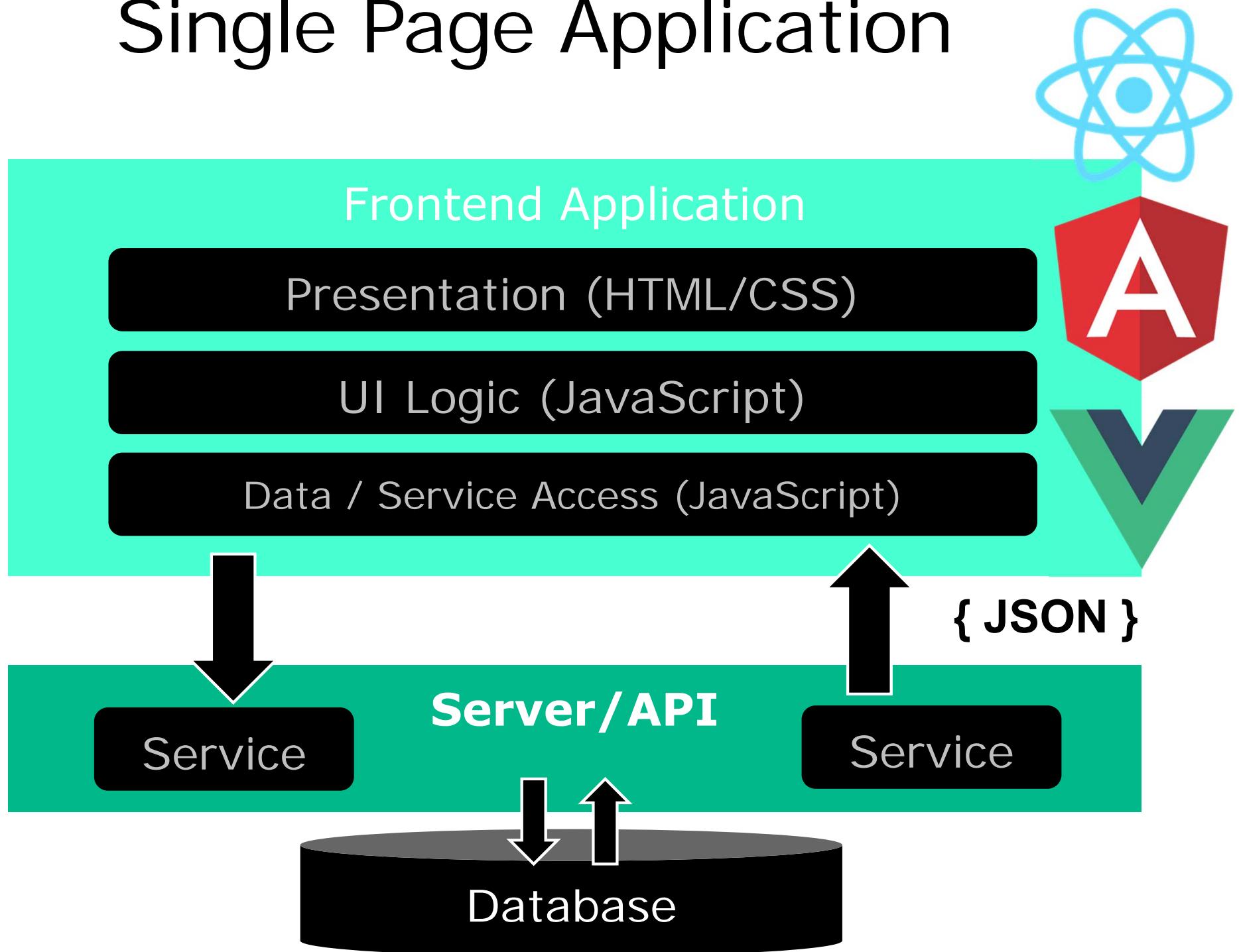
Ca. 2005 - 2015



But – since ca. 2010 – the growing needs for
web applications on **different form factors**



Single Page Application



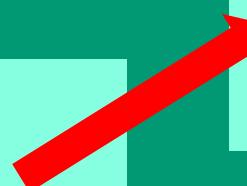
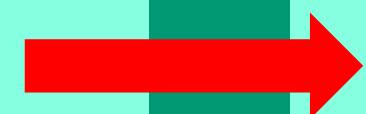
Application

App

Child 1

Child 2

Child 3



Application w/ routing

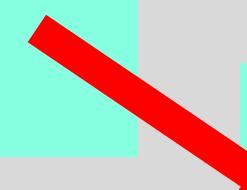
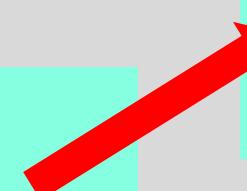
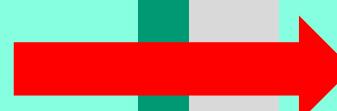
App

Router View

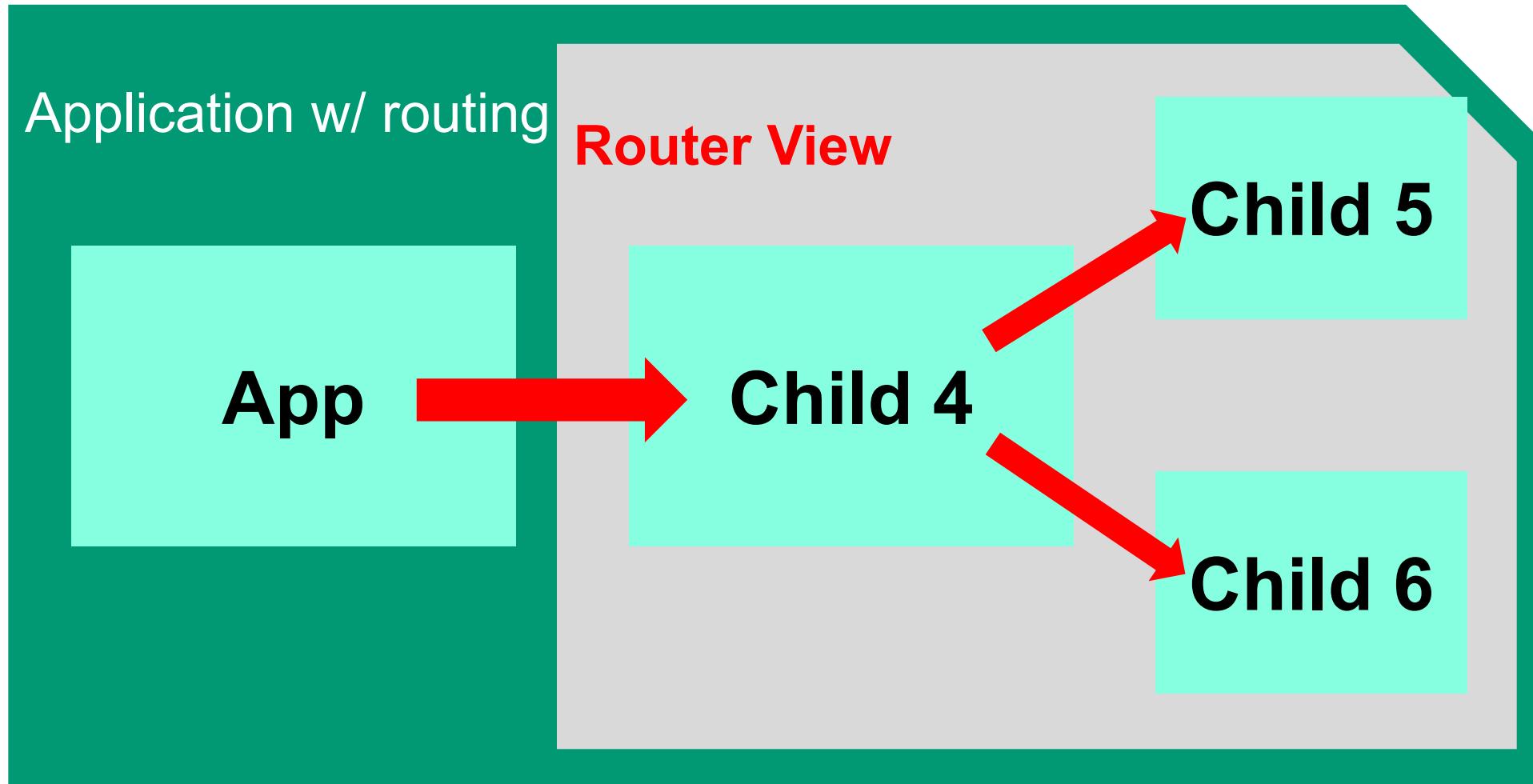
Child 1

Child 2

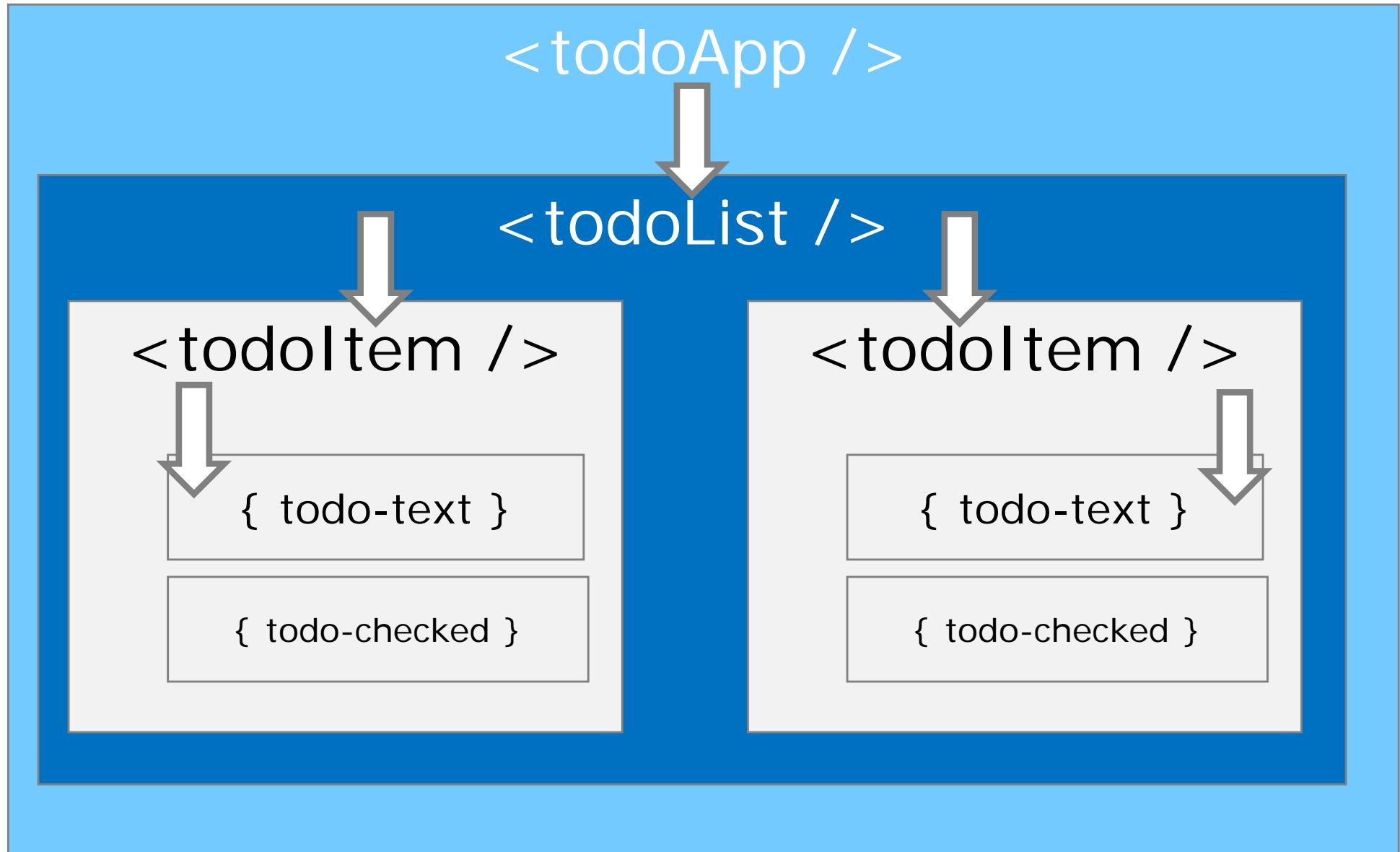
Child 3



As the URL changes, content gets updated

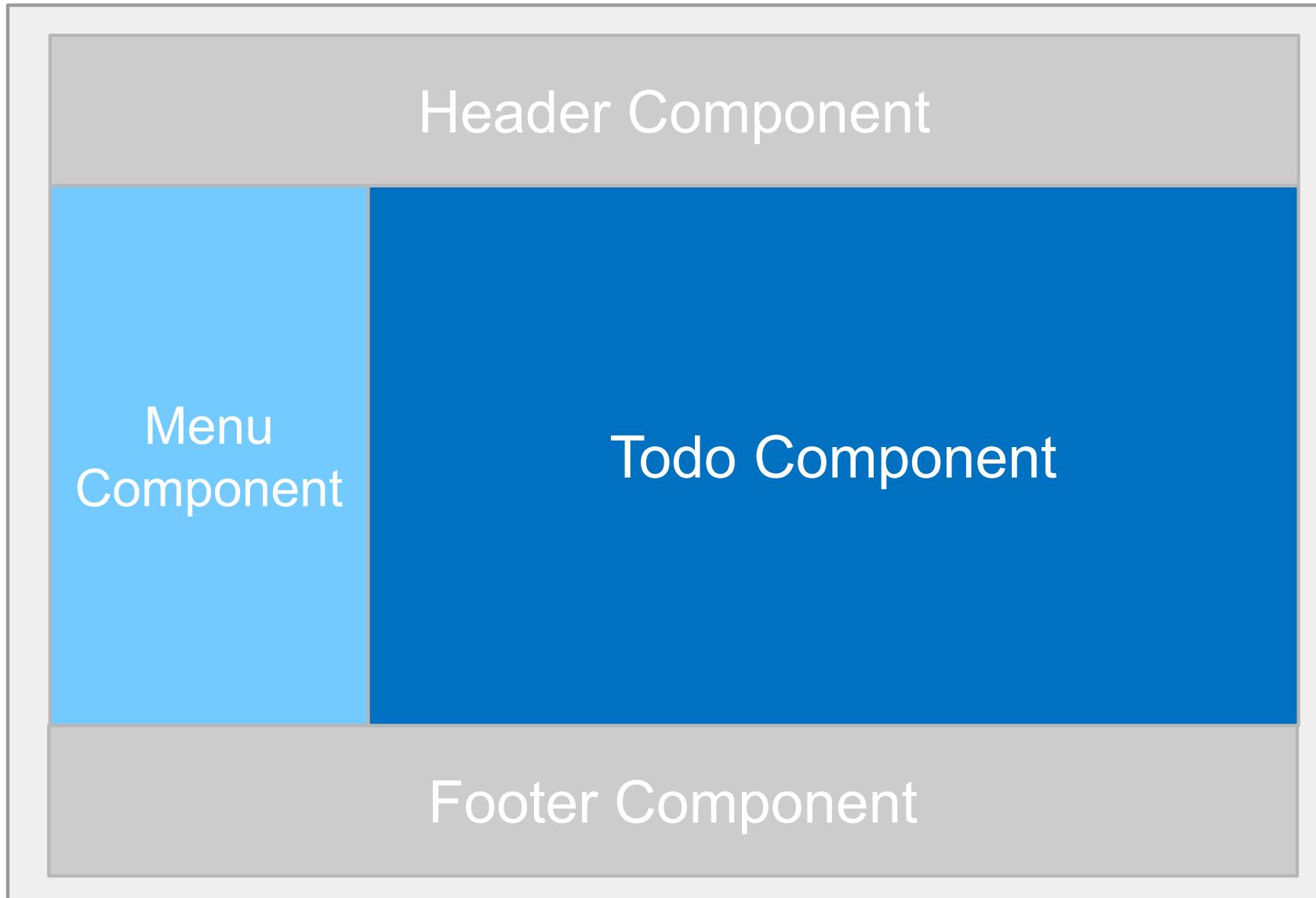


SPA & component structure



*“A Single Page
Application is a tree
of components”*

Components – visual representation





Tooling

Install tooling and create your first app



git --fast-version-control



Search entire site...

About

Documentation

Downloads

GUI Clients

Logos

Community

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

Downloads



Mac OS X



Windows



Linux/Unix

Older releases are available and the [Git source repository](#) is on GitHub.

GUI Clients

Git comes with built-in GUI tools (`git-gui`, `gitk`), but there are several third-party tools for users looking for a platform-specific experience.



Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.



PeterKassenaar

```
Last login: Mon Nov 26 13:28:59 on ttys011  
MacBook-Pro:~ PeterKassenaar$ git --version  
git version 2.17.2 (Apple Git 112)  
MacBook-Pro:~ PeterKassenaar$
```

<https://git-scm.com/downloads>



HOME | ABOUT | DOWNLOADS | DOCS | GET INVOLVED | SECURITY | NEWS | FOUNDATION

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/>

Framework CLI's

- Scaffold new projects
- Add routing, add components (sometimes)
- Add State management and so on
- Answer prompts when creating a new project

```
npm install -g @[framework]/cli
```

cli.vuejs.org

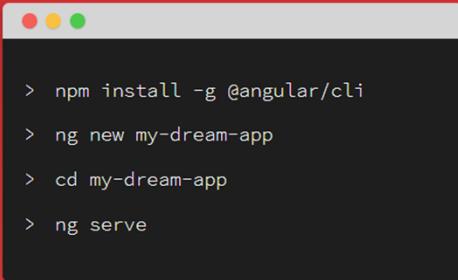
Vue CLI 3  Guide Config Reference Plugin Dev Guide ▾ Plugins ▾ Changelog Languages ▾ GitHub ▾



Vue CLI 3

 Standard Tooling for Vue.js Development

[Get Started →](#)



Angular CLI

A command line interface for Angular

[GET STARTED](#)

ng new

The Angular CLI makes it easy to create an application that already works, right out of the box. It already follows our best practices!

ng generate

Generate components, routes, services and pipes with a simple command. The CLI will also create simple test shells for all of these.

create-react-app.dev

The screenshot shows the official website for Create React App at create-react-app.dev. The page has a dark background. At the top left is the "Create React App" logo. At the top right are links for "Docs", "Help", "GitHub", and a search bar. In the center is a large teal atom icon. Below it is the title "Create React App" in a large white font. Underneath the title is the subtitle "Set up a modern web app by running one command." followed by a "Get Started" button. The bottom section of the page is white and contains three sections: "Less to Learn", "Only One Dependency", and "No Lock-In", each with a brief description.

Create React App

Set up a modern web app by running one command.

Get Started

Less to Learn

You don't need to learn and configure many build tools. Instant reloads help you focus on development. When it's time to deploy, your bundles are optimized automatically.

Only One Dependency

Your app only needs one build dependency. We test Create React App to make sure that all of its underlying pieces work together seamlessly – no complicated version mismatches.

No Lock-In

Under the hood, we use webpack, Babel, ESLint, and other amazing projects to power your app. If you ever want an advanced configuration, you can "eject" from Create React App and edit their config files directly.

Break. . .





Let's create an app

Building the same app, in 3 different frameworks

What are we going to build...

The screenshot shows a web application titled "Working Spirit detachering" with a blue logo. The page is titled "Vacation Picker". A search bar contains the text "United" with a red circle containing the number "1" over it. Below the search bar, the text "I want to visit:" is followed by the word "United" and a search button. To the right of the search bar is a "Clear" button.

Results

	United States Minor Outlying Islands
	Tanzania, United Republic of 2
	United Arab Emirates
	United Kingdom of Great Britain and Northern Ireland
	United States of America
	Mexico

United Kingdom of Great Britain and Northern Ireland

The flag of the United Kingdom of Great Britain and Northern Ireland is displayed. It features the Union Jack design with a red cross in the center and blue and white quadrants. A red circle containing the number "3" is placed over the top right corner of the flag.

United Kingdom of Great Britain and Northern Ireland
capital: London
population: 65110000

How are we going to build it?



You decide....



Q & A

Checkpoint – what have we learned?

There are **3** major frameworks at this moment

Frameworks share the same **similarities**

Frameworks differ in **vision** and syntax

All frameworks have a **huge ecosystem**

All frameworks provide **tooling**

We can build the **same app** with all frameworks

Which one suits you best? **You decide!**

github.com/PeterKassenaar/working-spirit

If you liked it, endorse

The screenshot shows a LinkedIn profile page with a red oval highlighting the 'Featured Skills & Endorsements' section. This section lists skills with endorsements from connections. The skills listed are Teaching, TypeScript, and Angular. Each skill entry includes the number of endorsements and the names of the endorsers.

duursporten (lopen, zwemmen, fietsen, roeien, schaatsen).
Laatste jaar in combinatie met studie Bewegingswetenschappen, Rijksuniversiteit Groningen (RUG).

[See more education ▾](#)

Featured Skills & Endorsements

Add a new skill

Skill	Endorsements	Endorsers
Teaching	3	Youri Pattynama and 2 connections
TypeScript	3	Youri Pattynama and 2 connections
Angular	2	Momen El Kamri and 1 connection

[See 26 more skills ▾](#)

Recommendations

[Ask to be recommended](#)

[Messaging](#)

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

Peter Kassenaar

- Trainer, author, developer – sinds 1996
- Specialty: “*Everything JavaScript*”
- JavaScript, ES6, Angular, Node.js, TypeScript, jQuery, React, Vue, etc.

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Peter Kassenaar



THANK YOU

