

# WebDev Trends <2022/>

By Elizaveta Ragozina

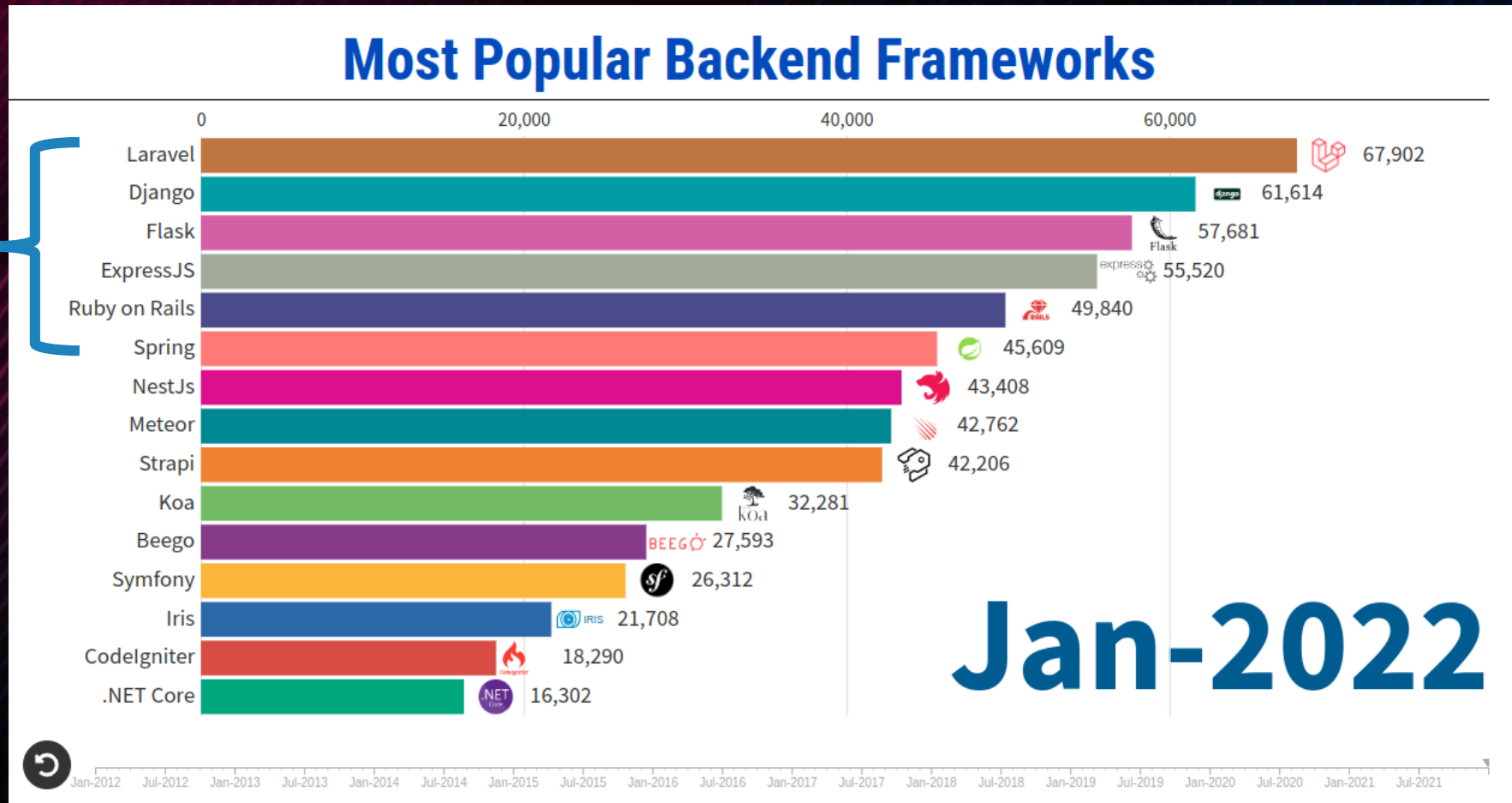
CERN IT Lightning Talks #23

<https://indico.cern.ch/event/1197994/>



# Frameworks » Backend

Last 3 years

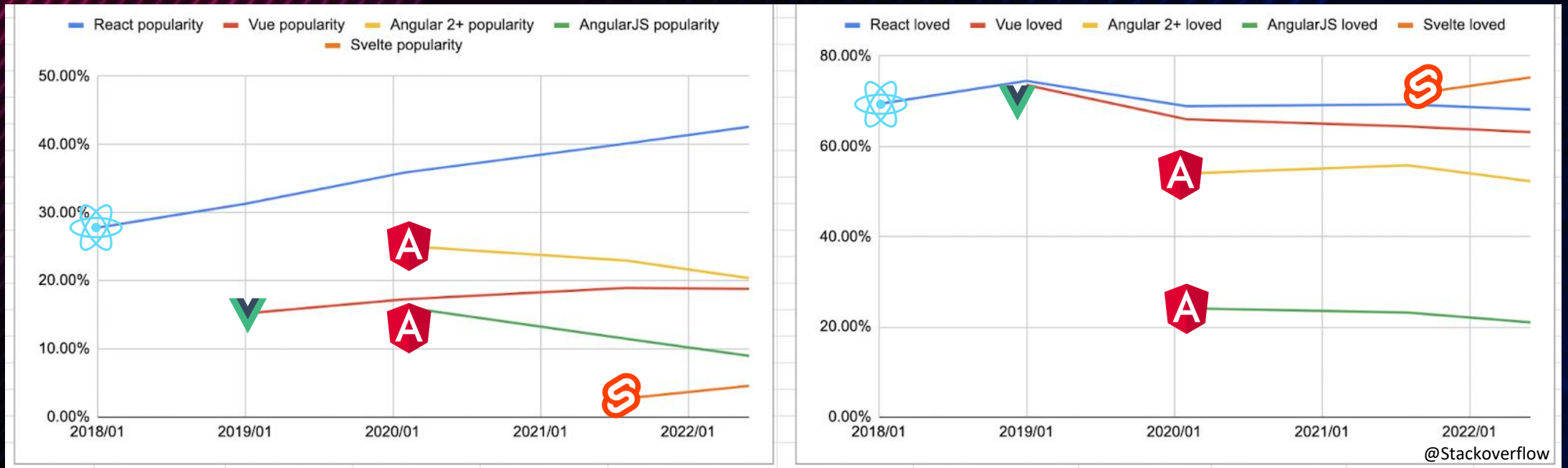


[statisticsanddata.org/data/most-popular-backend-frameworks-2012-2022](https://statisticsanddata.org/data/most-popular-backend-frameworks-2012-2022)



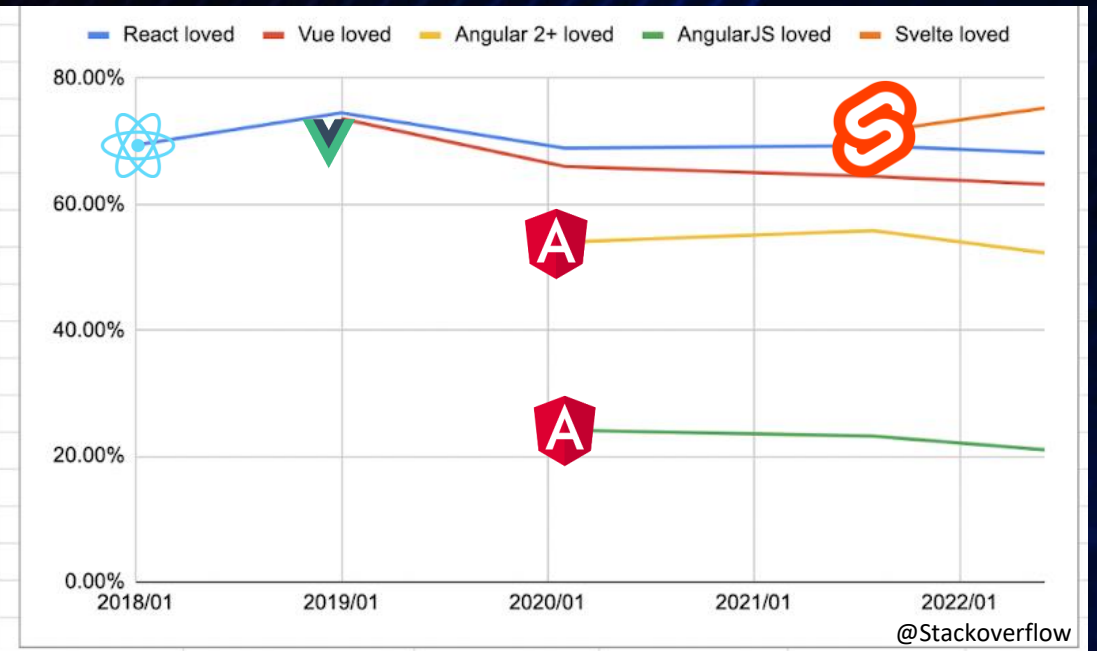
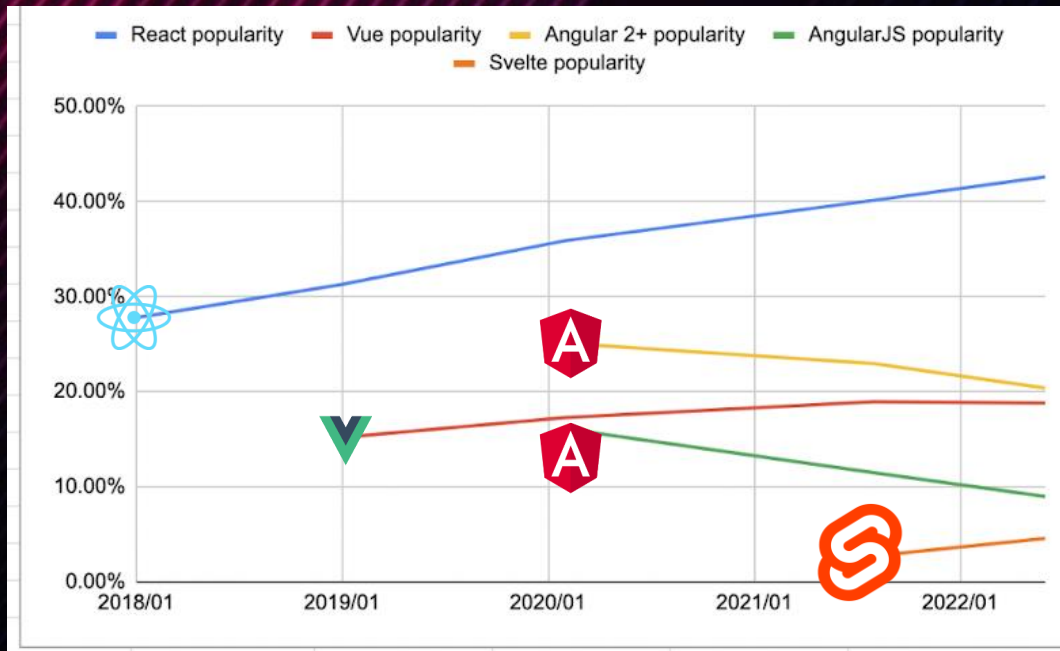
# Frameworks » Frontend

- React, Vue keep winning popularity



# Frameworks » Frontend

- React, Vue keep winning popularity
- Sudden new love: Svelte





# Svelte

Compiler

Framework/library



Super small bundle

Small bundle

Better performance and  
memory usage

Good performance, memory  
usage

Small community

Large communities

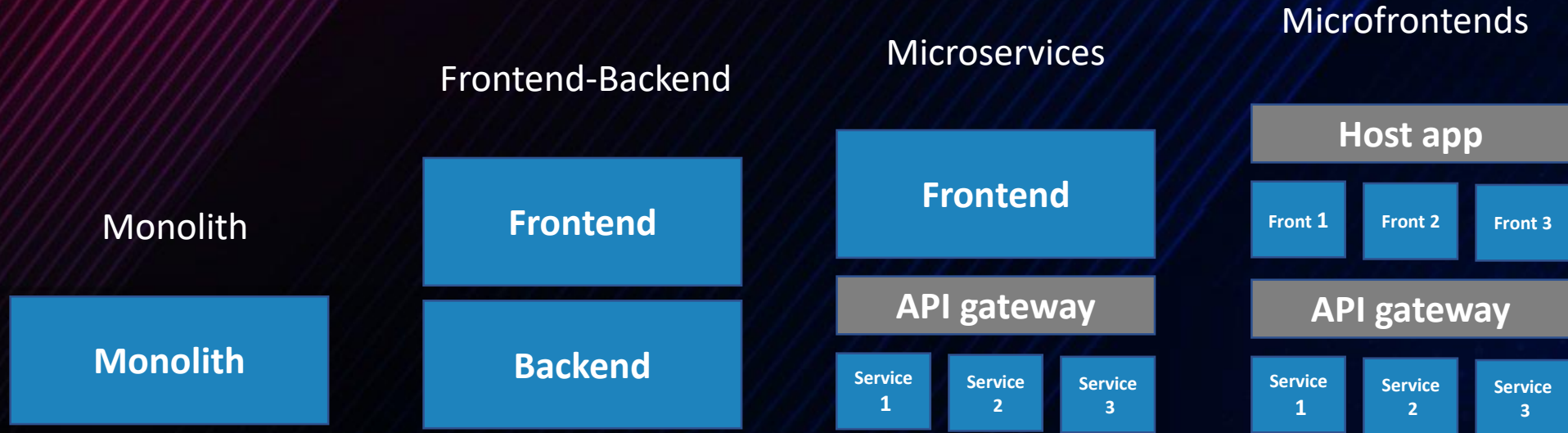
Very simple syntax

Own syntax

```
1 <script>
2   let name = 'world';
3 </script>
4
5 <h1>Hello {name}!</h1>
```

# Architecture » Microfrontends

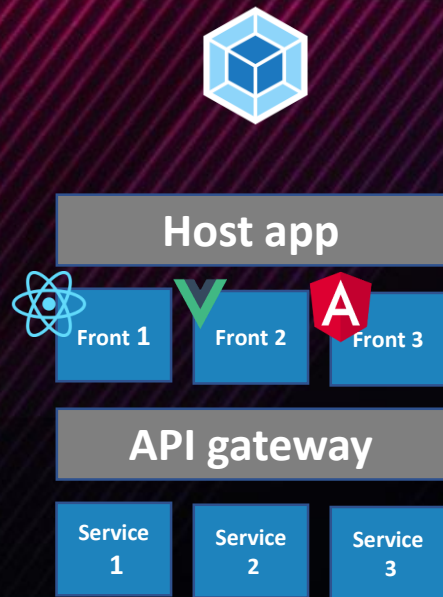
"Micro apps" that can be built,  
tested, deployed independently





# Architecture » Microfrontends

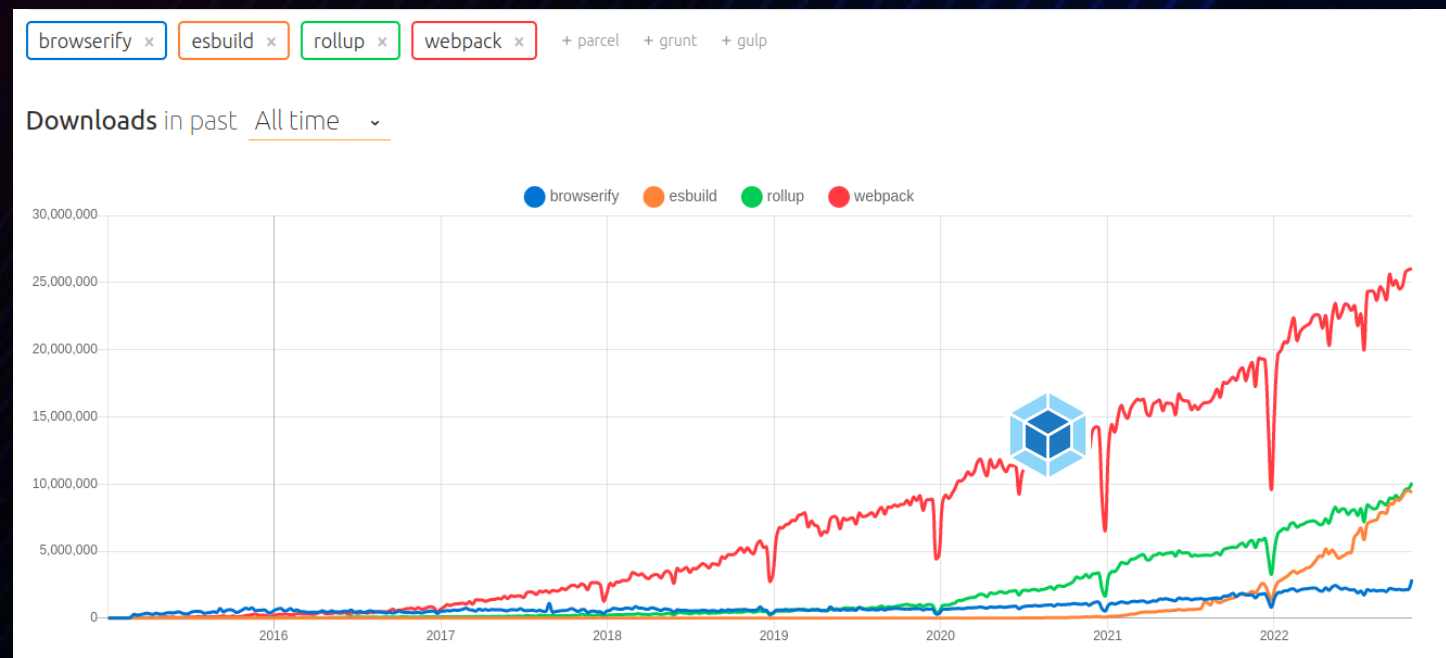
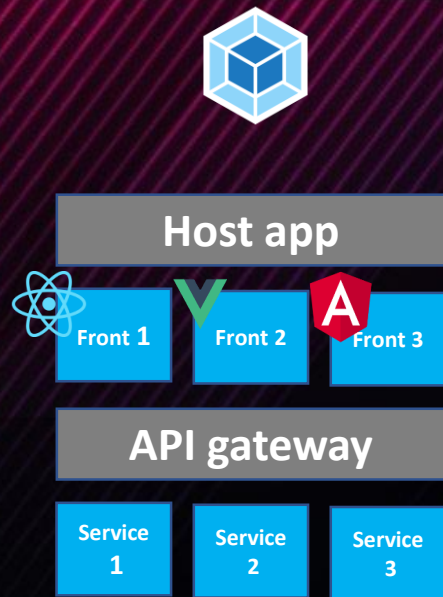
## Game-changer: Webpack 5 Module Federation



- Loading of separately compiled mf's at runtime
  - Minimized dependency duplication
  - Nesting, circular dependencies between containers possible
  - Routing & history
- 
- More tech stack flexibility
  - Makes sense by huge apps

# Architecture » Microfrontends

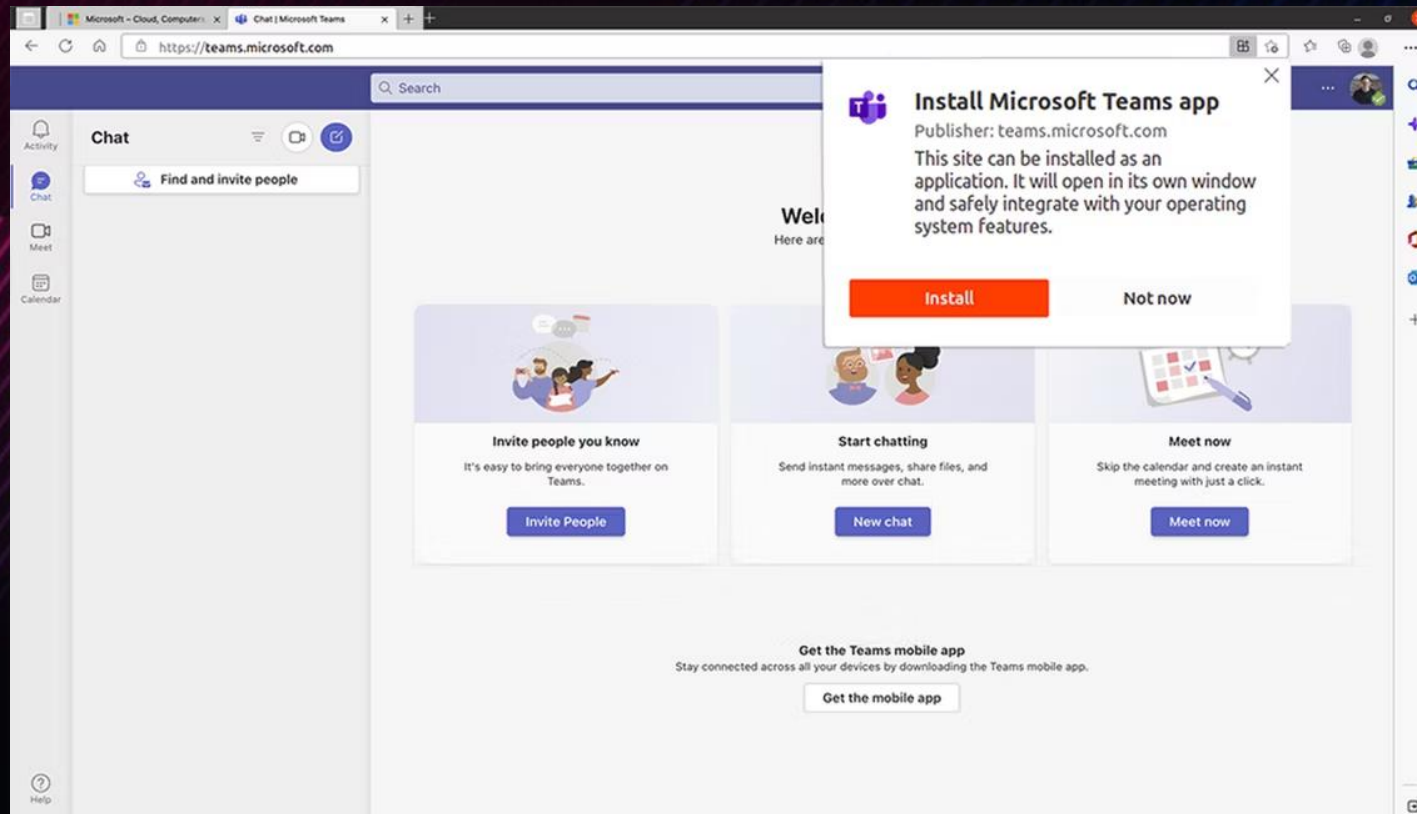
Game-changer: Webpack 5 Module Federation



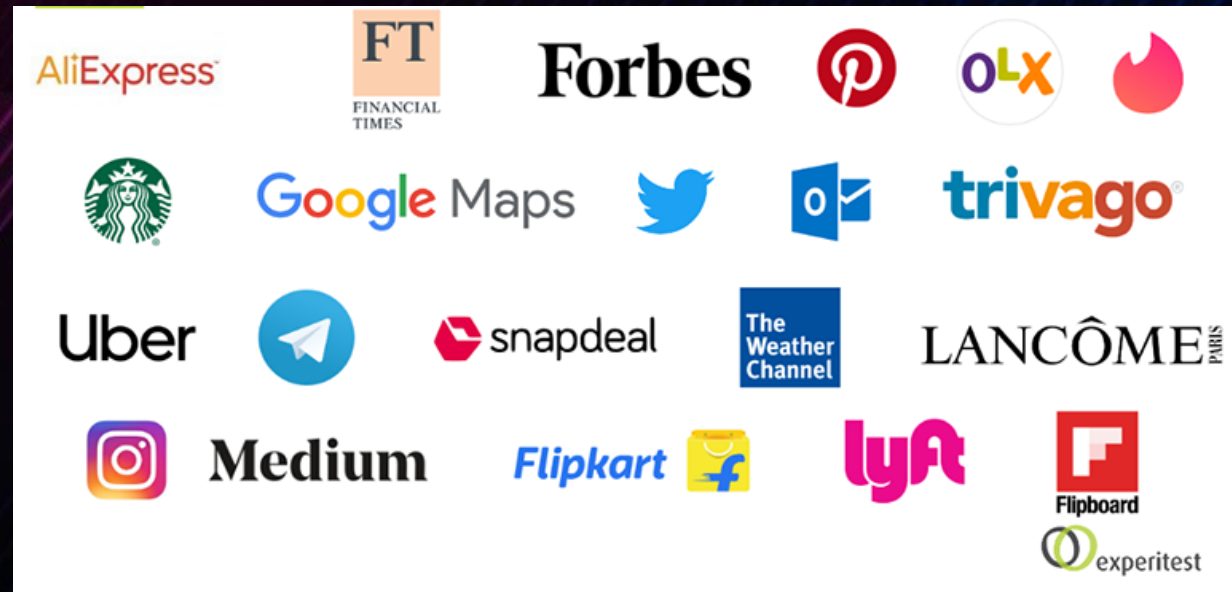
npm trends.com



# Progressive Web Apps



# Progressive Web Apps





# Progressive Web Apps



App that can operate as web page and mobile app

- Platform independent
  - Fast
  - Works offline
  - Sends push notifications
  - Use of user device features
  - Better SEO (indexed by Google)
- 
- IOS limitations, no access to some sensors

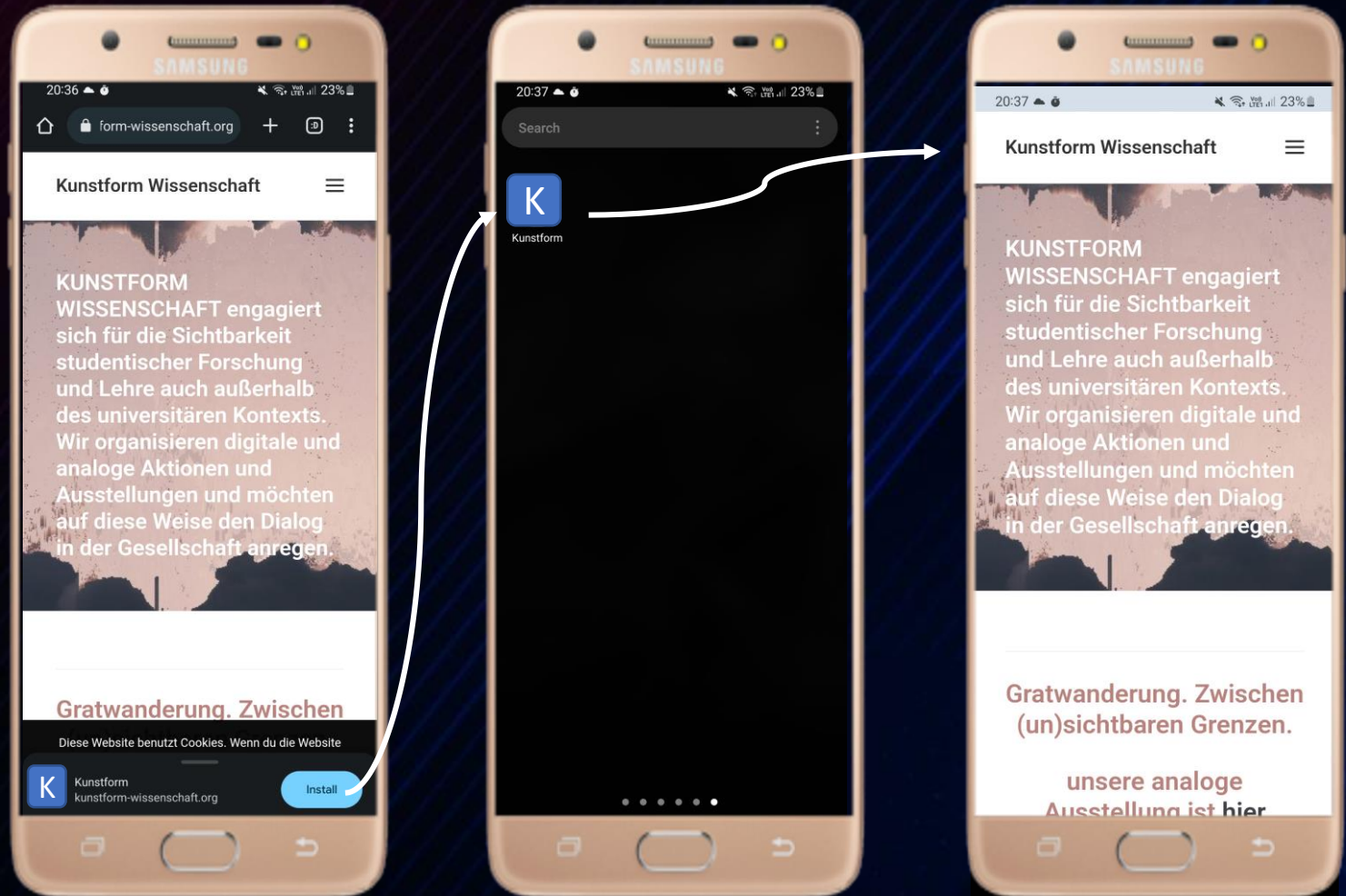


# Shortest cookbook: build app out of web page

1. Add web app manifest.json with metadata to the code

Voilà

... add service workers for offline mode, push notifications etc...





# WebDev – constant (R)evolution

# Images

- <https://www.vecteezy.com/vector-art/1987723-abstract-banner-technology-stripes-geometric-diagonal-pink-blue-background>
- Svelte meme: <https://devrant.com/rants/2189694/svelte>
- PWA
- [https://www.cignex.com/sites/default/files/Progressive%20Web%20Apps\\_Twitter.png](https://www.cignex.com/sites/default/files/Progressive%20Web%20Apps_Twitter.png)
- PWA companies: <https://cms.webcreatify.com/gallery/28958-webapp6.png>