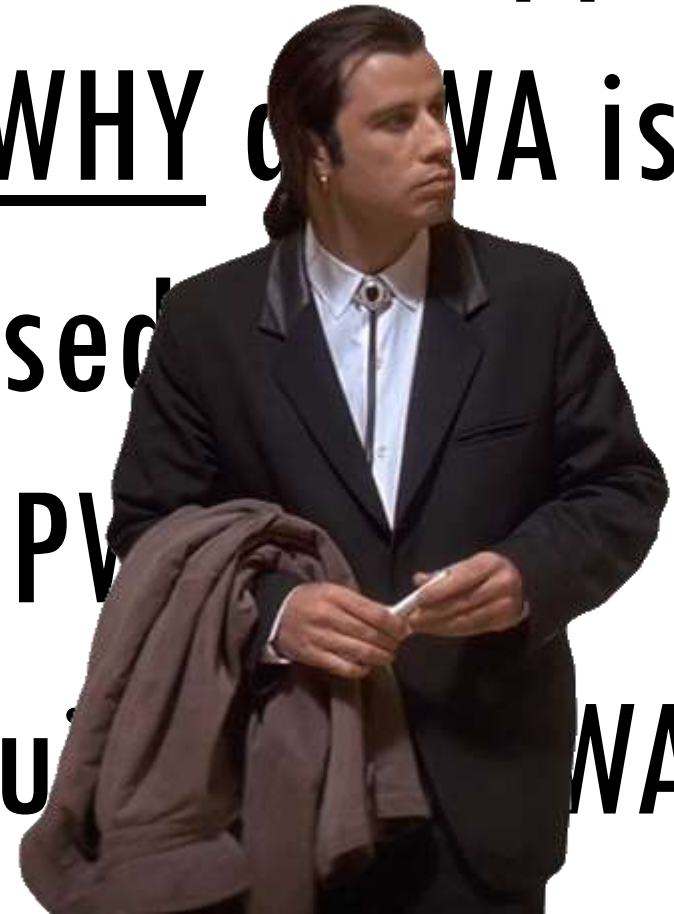


**DOES IT
NEED TO
BE A
PWA?**



I HAVE AN AGENDA:

- Discuss WHAT a Progressive Web App is
- Cover the 10 aspects of WHY a PWA is
- WHERE PWAs are being used
- Postulate WHEN to use a PWA
- Show you HOW to start building a PWA





TARA Z. MANICSIC

**Developer Advocate for Progress
Google Developer Expert / Web Technologies**

**Founder & Director Cincy Women Who Code
Founder & Director Cincy NodeSchool**

@tzmanics

#toshmagosh

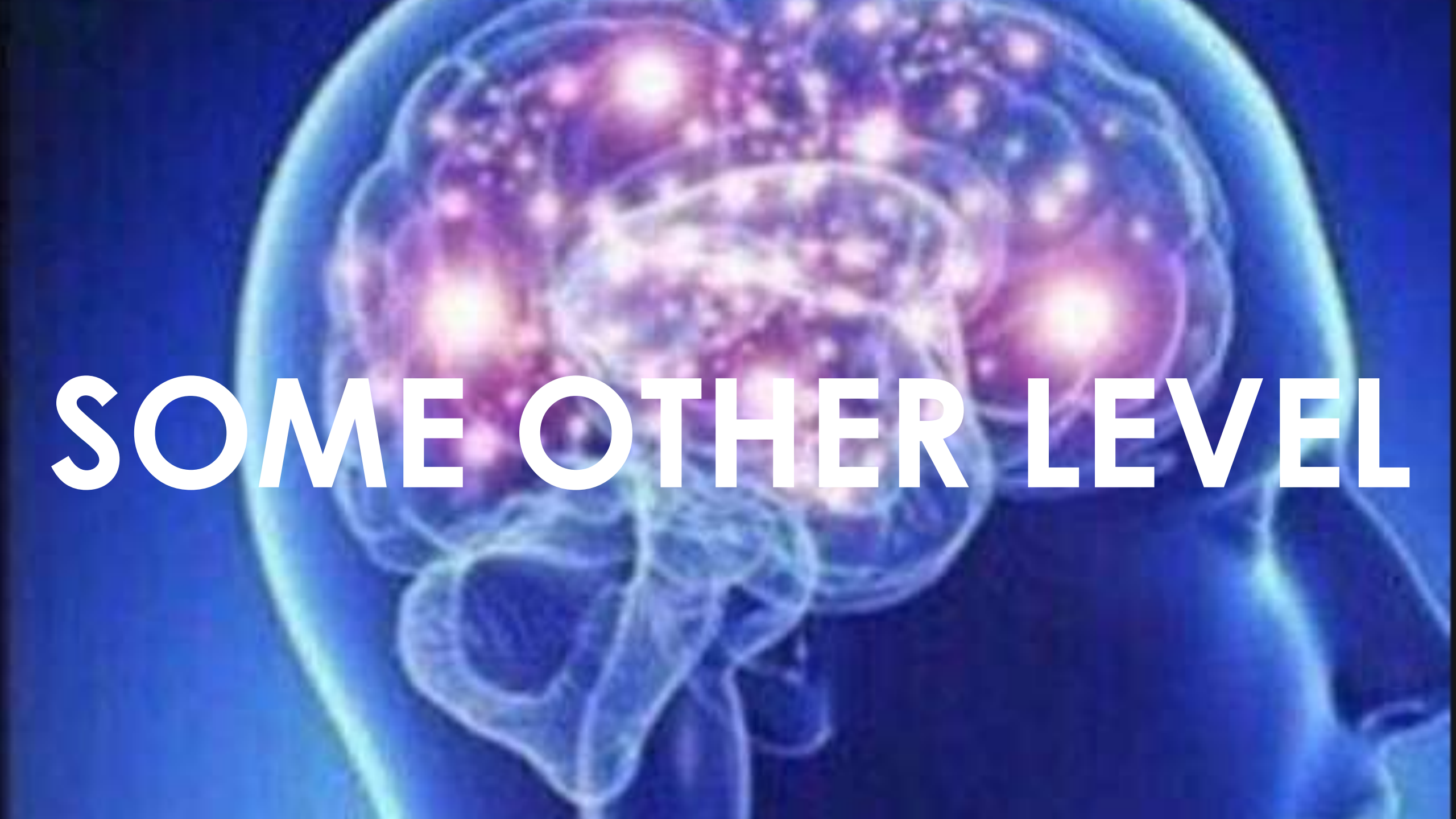




HIGH LEVEL

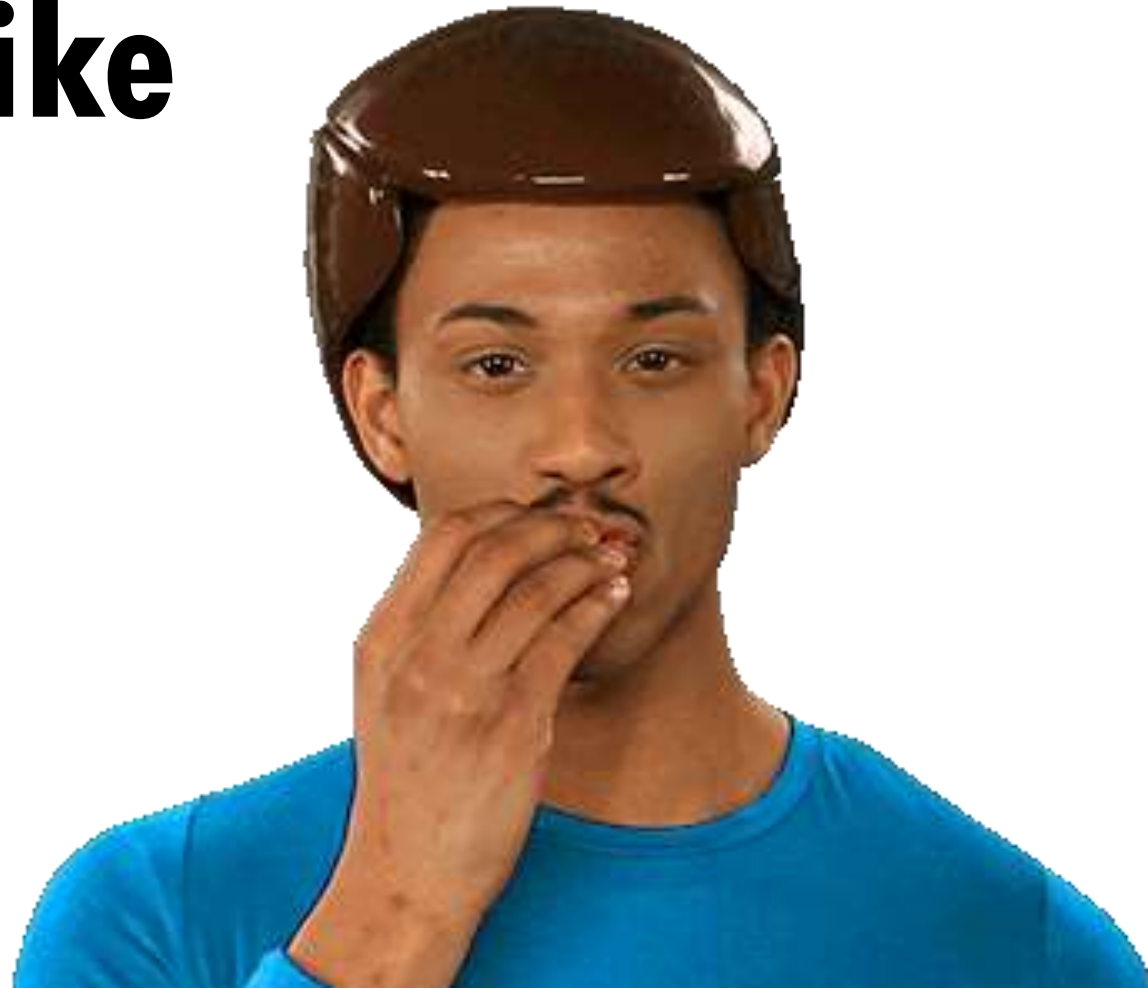
**Strategies to make web apps
more engaging, more reliable
and more fast** 

**Using modern web technologies
like push and cache APIs.**



SOME OTHER LEVEL

**You add JavaScript and
json files to your project
to add capabilities like
push notifications,
offline caching,
fullscreen views and
more.**



THE DAI BENDU ENTERED
THE THO YOR, FOLLOWING
THAT PROPHECY —



DAI BENDU LEVEL



SERVICE WORKERS APP MANIFEST

Service Worker API

[Languages](#)[Edit](#)

Jump to:

[Service worker concepts and usage](#)

[Other use case ideas](#)

[Interfaces](#)

[Specifications](#)

[Browser compatibility](#)

[See also](#)

Web technology for
developers >

Web APIs >

Service Worker API

Related Topics

[Service Worker API](#)

▼ [Service Worker guides](#)

[Using Service Workers](#)

▼ [Interfaces](#)

Service workers essentially act as proxy servers that sit between web applications, and the browser and the network (when available). They are intended to (amongst other things) enable the creation of effective offline experiences, intercepting network requests, and taking appropriate action based on whether the network is available, and updated assets reside on the server. They will also allow access to push notifications and background sync APIs.

@TZMANICS

serviceworker.js

```
if ('serviceWorker' in navigator && 'PushManager' in window) {  
    console.log('Service Worker and Push is supported');  
  
    navigator.serviceWorker.register('sw.js')  
        .then(function(swReg) {  
            console.log('Service Worker is registered', swReg);  
  
            swRegistration = swReg;  
        })  
        .catch(function(error) {  
            console.error('Service Worker Error', error);  
        });  
} else {  
    console.warn('Push messaging is not supported');  
    pushButton.textContent = 'Push Not Supported';  
}
```

Web App Manifest

[Languages](#)[Edit](#)

Jump to: [Deploying a manifest](#) [Example manifest](#) [Members](#) [Splash screens](#)

[Mime type](#) [Specification](#) [Browser compatibility](#)

The web app manifest provides information about an application (such as name, author, icon, and description) in a JSON text file. The purpose of the manifest is to install web applications to the homescreen of a device, providing users with quicker access and a richer experience.

Web app manifests are part of a collection of web technologies called [progressive web apps](#), which are web applications that can be installed to the homescreen of a device without needing the user to go through an app store, along with other capabilities such as being available offline and receiving push notifications.

manifest.json

```
{
  "name": "pwa-ftw",
  "short_name": "🌈PWA-FTW👨👩",
  "icons": [
    {
      "src": "/static/img/icons/android-chrome-192x192.png",
      "sizes": "192x192",
      "type": "image/png"
    },
    {
      "src": "/static/img/icons/android-chrome-512x512.png",
      "sizes": "512x512",
      "type": "image/png"
    }
  ],
  "start_url": "/index.html",
  "display": "standalone",
  "background_color": "#000000",
  "theme_color": "#4DBA87"
}
```

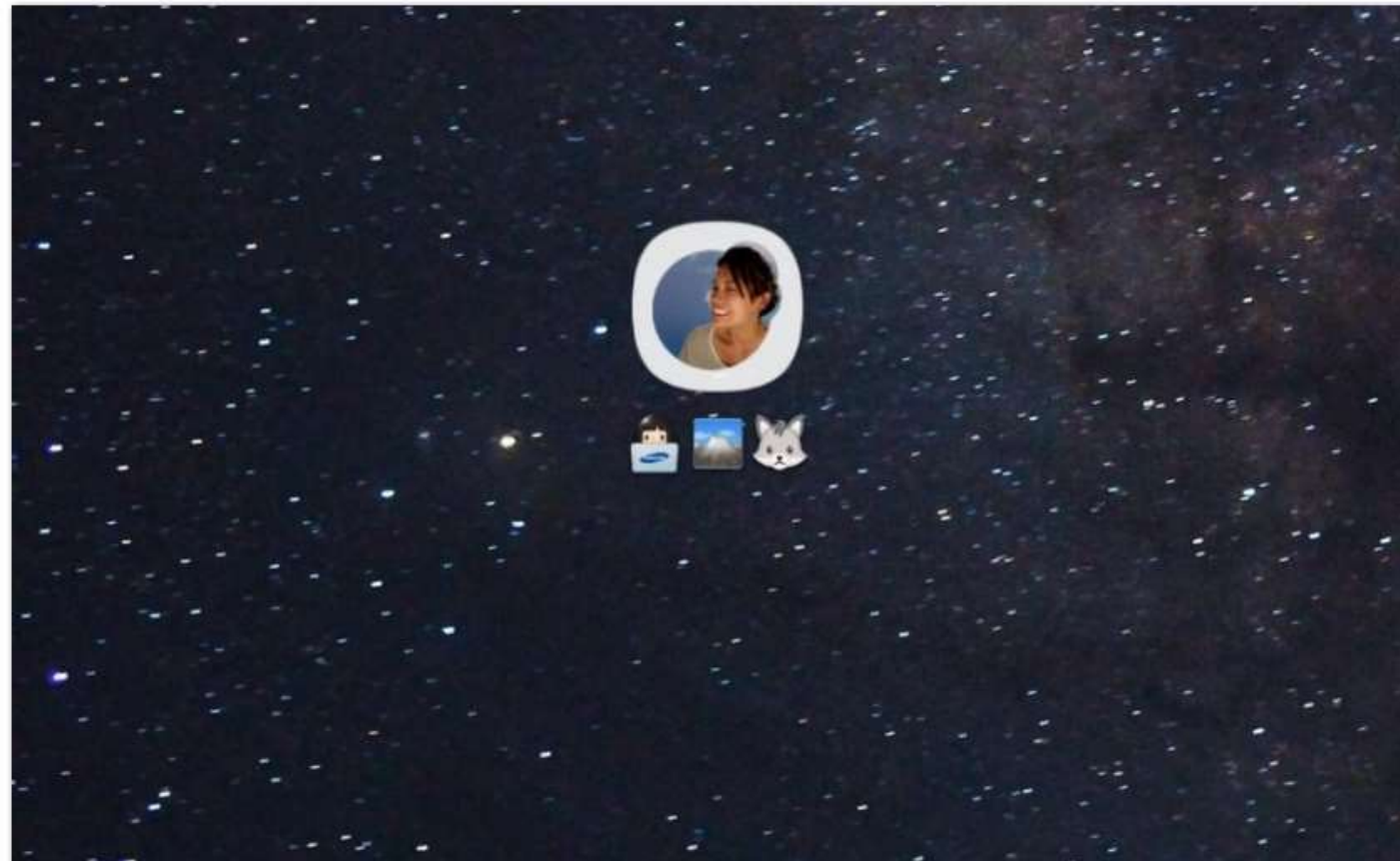


Tara Z. Manicsic 🐾

@Tzmanics



I am always strongly advocating for emoji use in your [#pwa](#) app manifest. Come on, who doesn't want to 👁️ that adorable [#toshmagosh](#) emoji?!?





WHAT NOT?

NOT

REPLACING

NATIVE MOBILE

APPS

NOT

JUST MOBILE

NOT

FOR EVERYONE

NOT

ALL | | NOTHING

NOT

**A REASON TO
BURN IT TO THE
GROUND**



PROGRESSIVE

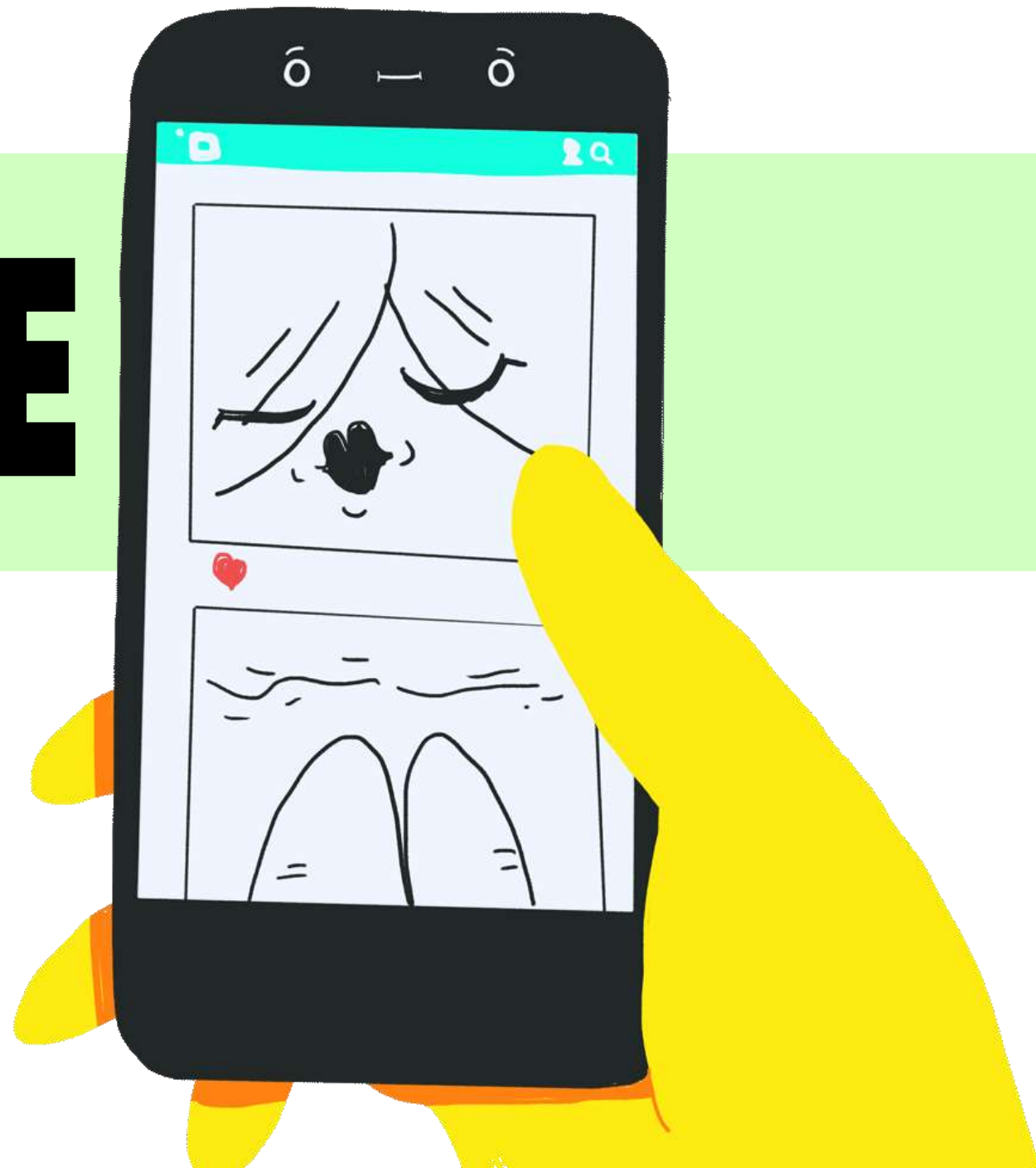


RESPONSIVE



CONNECTIVITY INDEPENDENT

APP-LIKE





#DumbTo

FRESH

SAFE





DISCOVERABLE

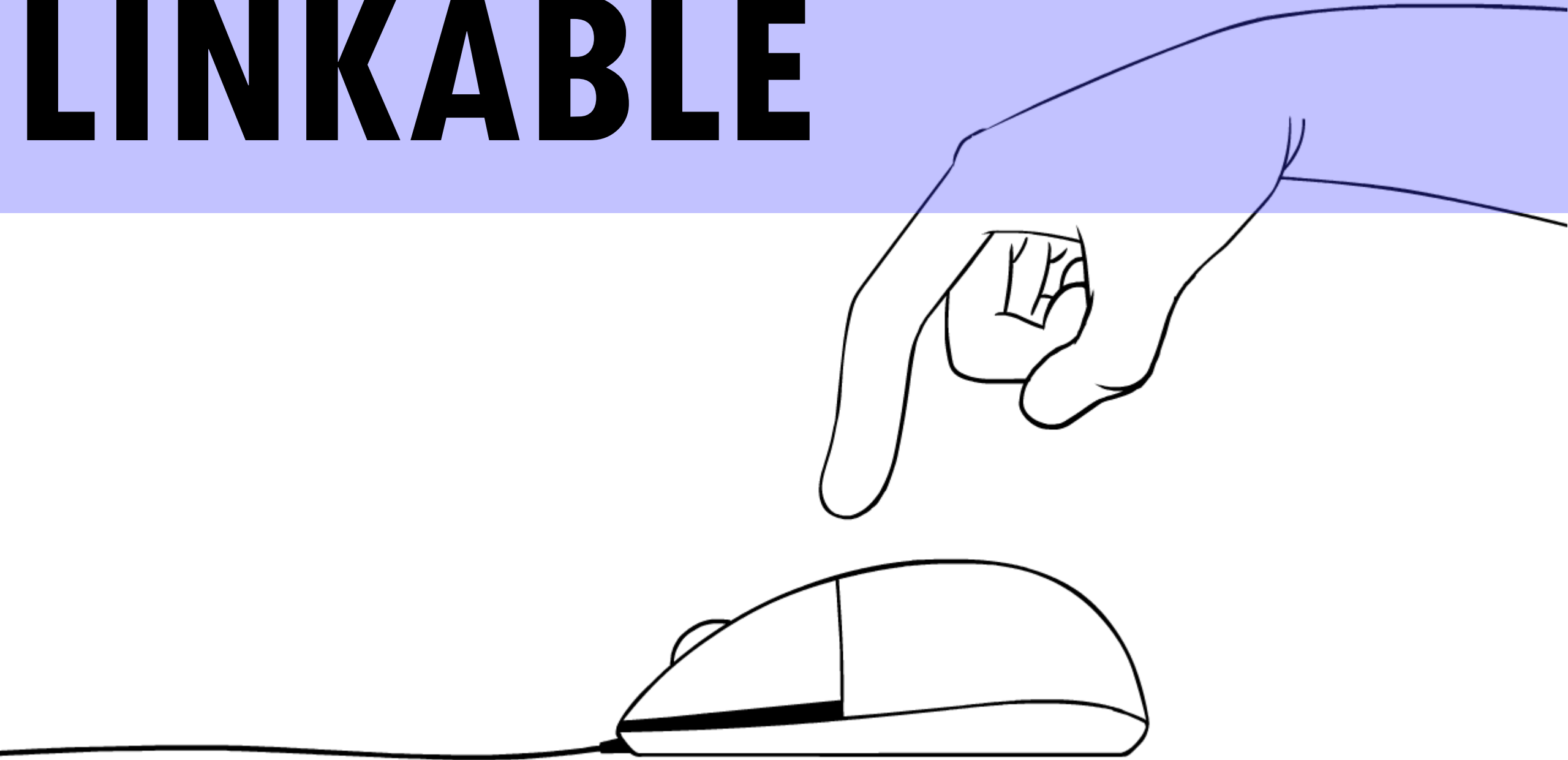
RE-ENGAGING



A stylized illustration of a person holding a smartphone. The person is depicted with simple black outlines, wearing a white shirt and a dark skirt. They are holding a white smartphone with a black camera lens. The background consists of a large, light pink circle and a horizontal pink band across the middle. The word "INSTALLABLE" is written in large, bold, black capital letters across the pink band.

INSTALLABLE

LINKABLE







FANDANGO



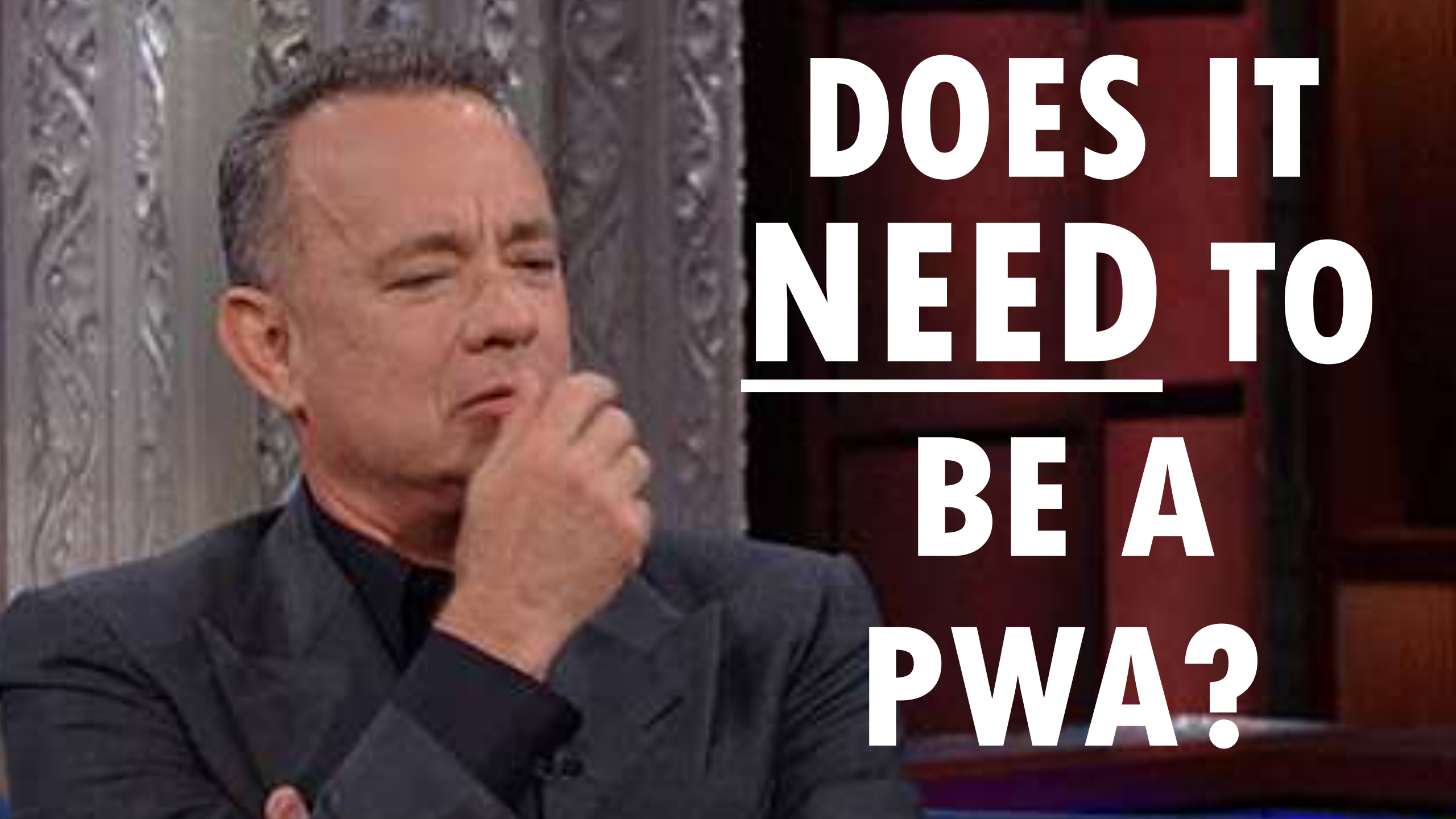
JUMIA
TRAVEL



The Washington Post

Forbes





**DOES IT
NEED TO

BE A
PWA?**

Yes

Nah

~~YOUR BLOG~~



Yes

Nah

DATA SCIENCE



Yes

Nah

ECOMMERCE







LIVE CODING

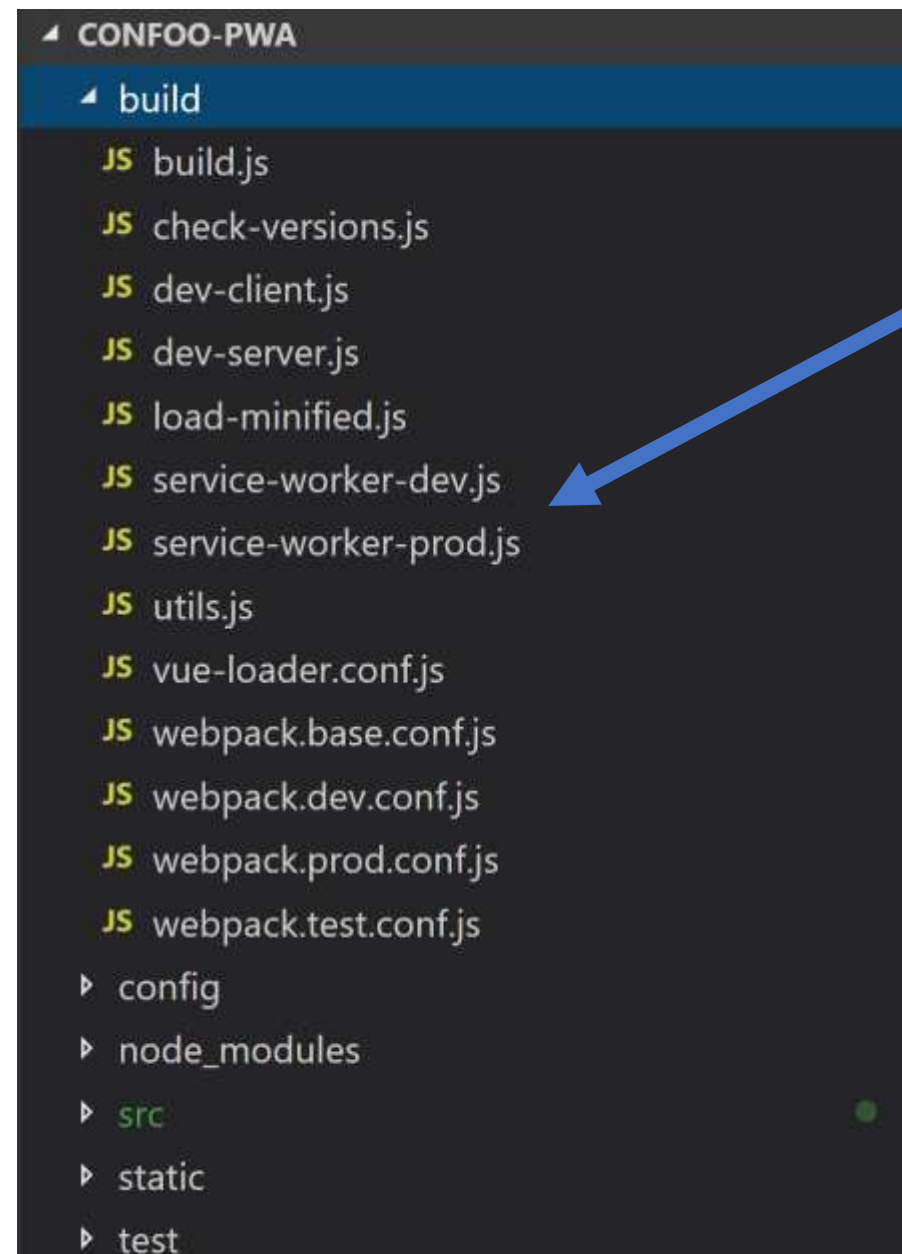
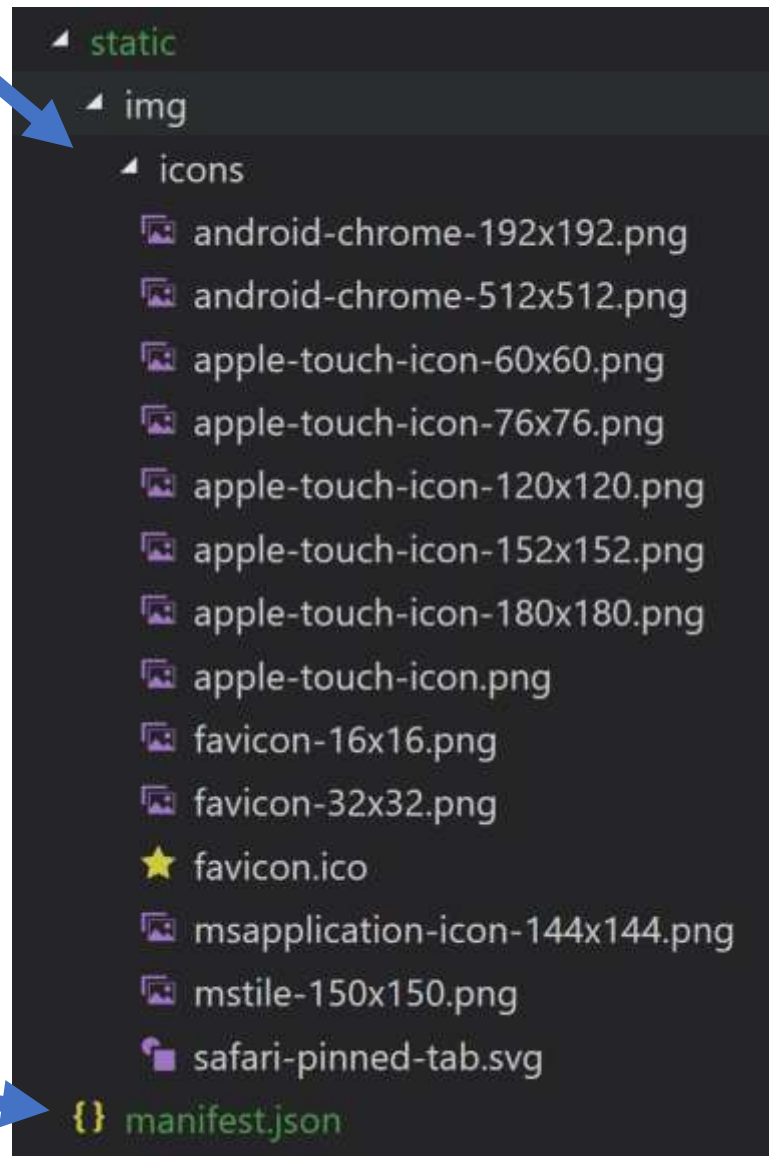
<live-code-screenshots>

```
PS C:\Users\tzmanics\Documents\Projects\kendo-ui\kendo-ui-  
vue> npm i vue-cli -g
```

```
vue init pwa coofoo
```

```
npm i @progress/kendo-ui @progress/kendo-dateinputs-vue-wrapper  
@progress/kendo-theme-default
```

```
build/  
config/  
index.html  
node_modules/  
package.json  
package-lock.json  
README.md  
src/  
static/  
test/
```



`{}` manifest.json ✕

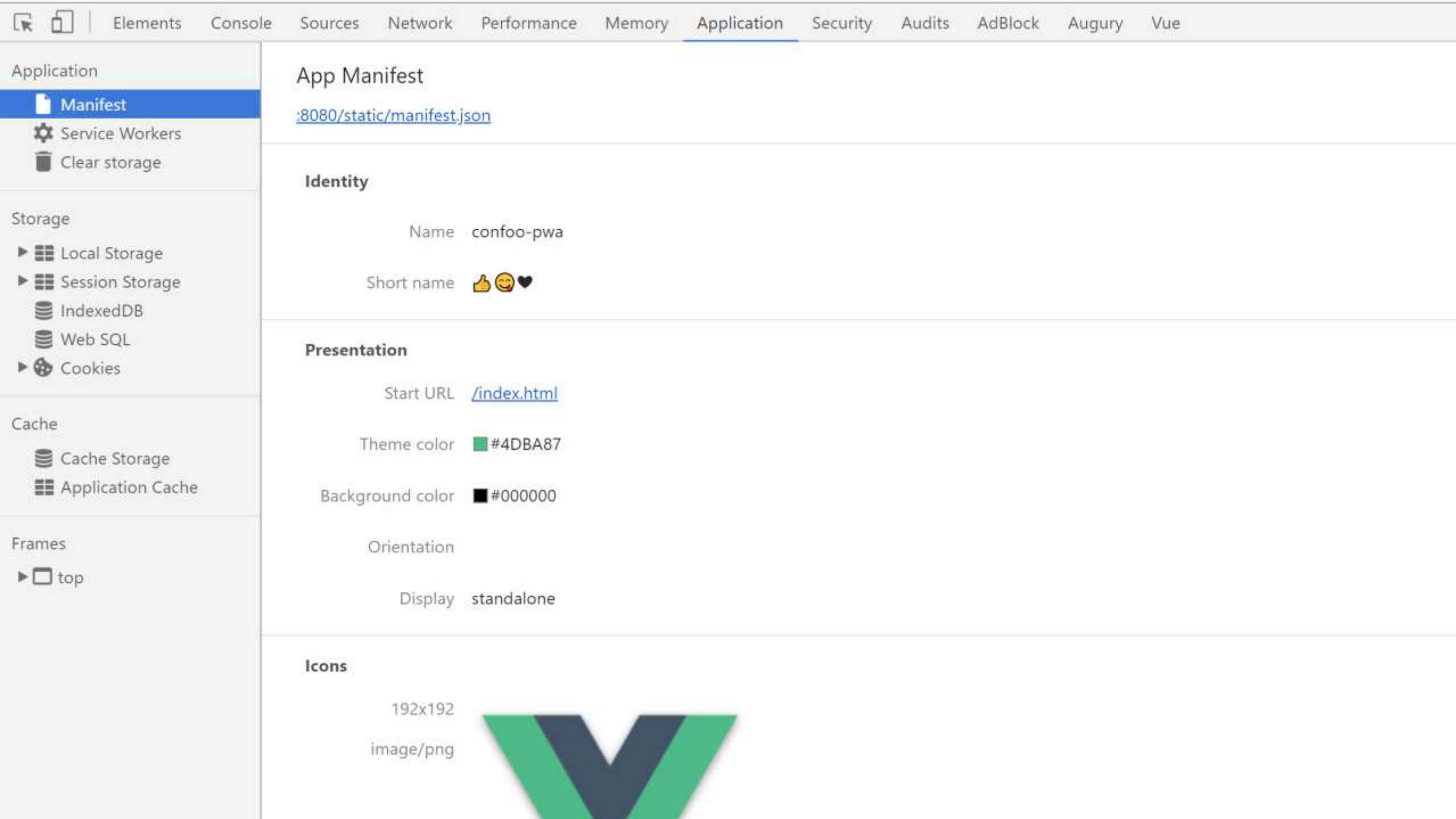
```
1  {
2    "name": "confoo-pwa",
3    "short_name": "👍 😊 ❤️",
4    "icons": [
5      {
6        "src": "/static/img/icons/android-chrome-192x192.png",
7        "sizes": "192x192",
8        "type": "image/png"
9      },
10     {
11       "src": "/static/img/icons/android-chrome-512x512.png",
12       "sizes": "512x512",
13       "type": "image/png"
14     }
15   ],
16   "start_url": "/index.html",
17   "display": "standalone",
18   "background_color": "#000000",
19   "theme_color": "#4DBA87"
20 }
21
```

```
1  // The Vue build version to load with the `import` command
2  // (runtime-only or standalone) has been set in webpack.base.conf with an alias.
3  import Vue from 'vue'
4  import App from './App'
5  import { DatePicker, DateinputsInstaller } from '@progress/kendo-dateinputs-vue-wrapper'
6  import '@progress/kendo-ui'
7  import '@progress/kendo-theme-default/dist/all.css'
8
9  Vue.config.productionTip = false
10 Vue.use(DateinputsInstaller)
11
12 /* eslint-disable no-new */
13 new Vue({
14   el: '#app',
15   template: '<App/>',
16   components: {
17     App,
18     DatePicker
19   }
20 })
```

▼ App.vue ×

```
1  <template>
2    <div id="app">
3      <kendo-datepicker />
4    </div>
5  </template>
6
7  <script>
8    import Hello from './components/Hello'
9
10   export default {
11     name: 'app',
12     components: {
13       Hello
14     }
15   }
16   </script>
```





App Manifest

[:8080/static/manifest.json](#)

Identity

Name

confoo-pwa

Short name

👍😊❤️

Presentation

Start URL

[/index.html](#)

Theme color

#4DBA87

Background color

#000000

Orientation

Display

standalone

Icons

192x192

image/png

</live-code-screenshots>

Kendoui.com

Browse

 Browse



Type the name of a European country:

A

Albania

Andorra

Armenia

Austria

Azerbaijan

Belarus

Belgium

Selected value is: 03/10/2000

Select a date:

3/10/2000

May 2020

TODAY

↑ to increment and ↓ to

2020

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

Oct

Su

Mo

Tu

We

Th

Fr

Sa

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THE ART OF WEB DEVELOPMENT



@TZMANICS



Hacker News readers as Progressive Web Apps

A spiritual successor to TodoMVC

COME & TALK TO ME

i really wanna know you



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Symfony and 



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Open Source
Symfony Solution
Catalogue

15 Solutions to optimize
your PHP development

| Topic | Platform |
|----------------|----------|
| Security | Symfony |
| Performance | Symfony |
| Testing | Symfony |
| Deployment | Symfony |
| Integration | Symfony |
| API | Symfony |
| Mobile | Symfony |
| Cloud | Symfony |
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| Architecture | Symfony |
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QR CODE





THANKS CONFOO ♥

**SLIDES & CODE WILL BE TWEETED FROM
[@tzmanics](https://twitter.com/tzmanics)**