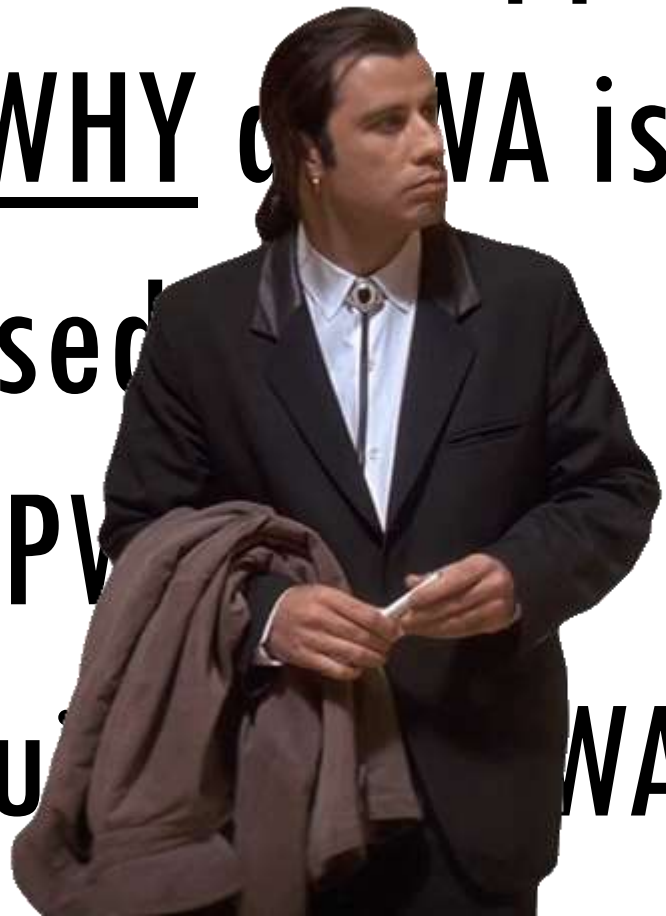
DOES IT NEED TO BE A PWA?

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.

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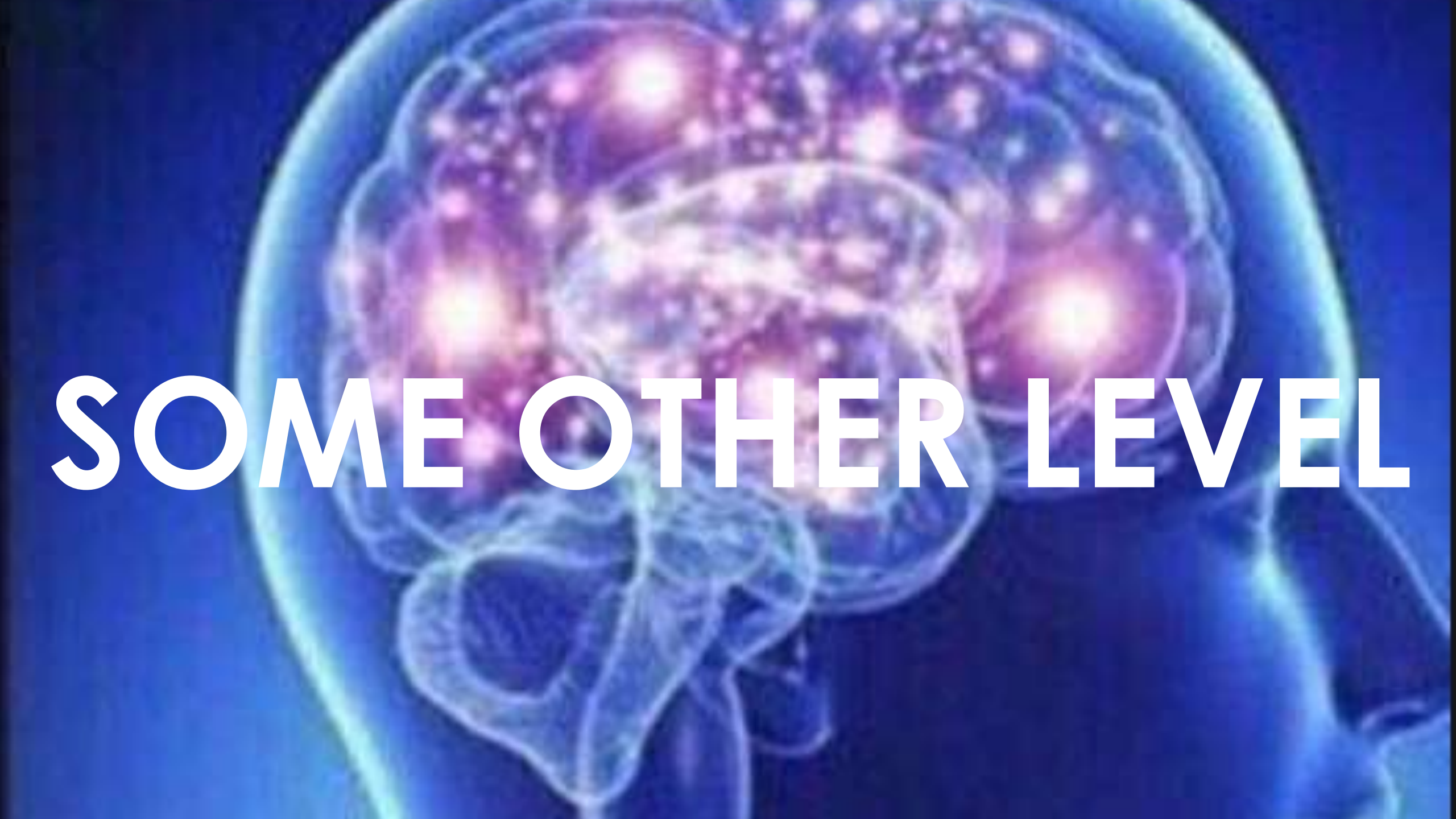
SOME OTHER LEVEL

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

DAI BENDU LEVEL

SERVICE WORKERS
APP MANIFEST

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Service Worker API

Languages Edit

Jump to: Service worker concepts and usage Other use case ideas Interfaces Specifications Browser compatibility See also

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.

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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.

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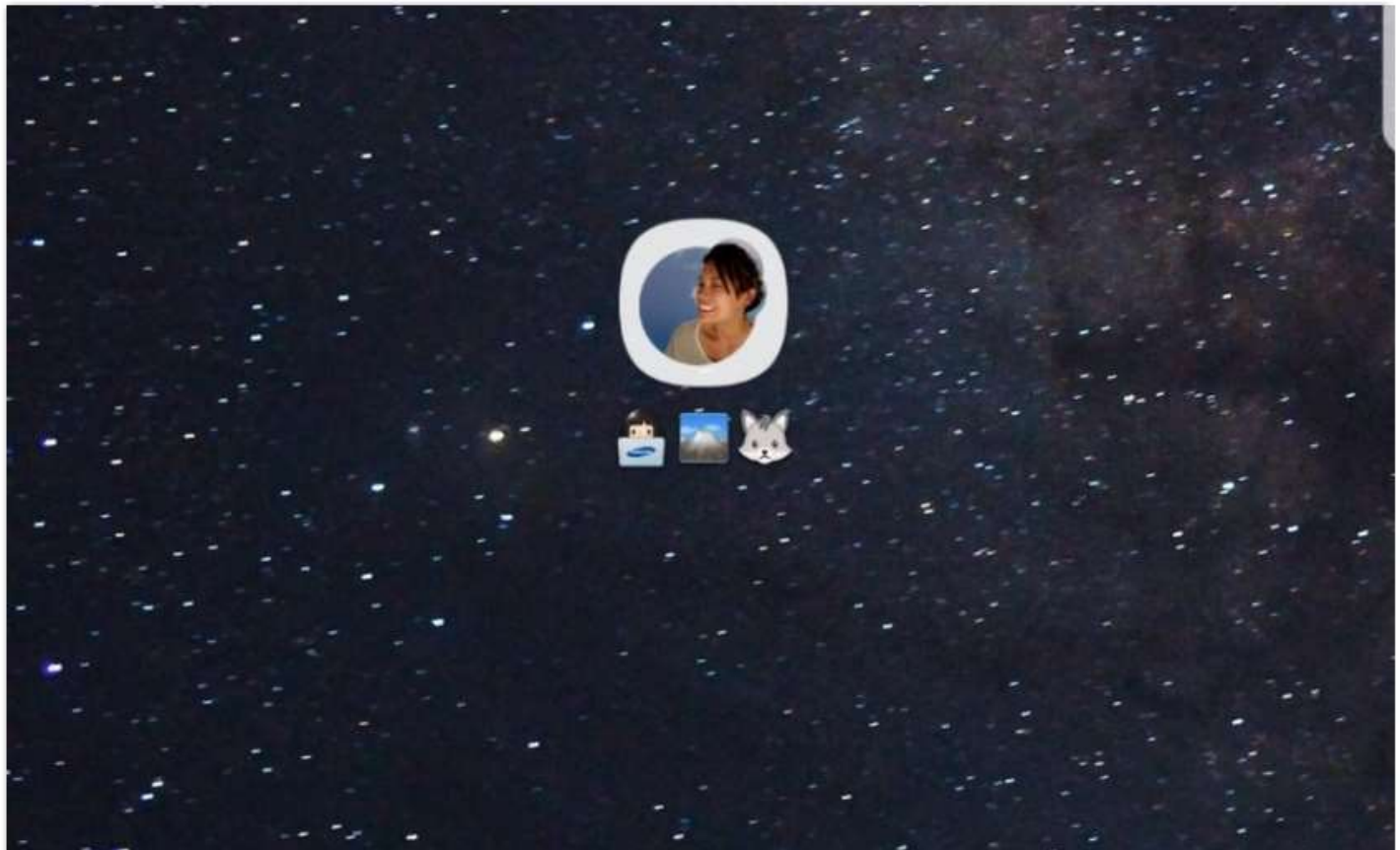
manifest.json

```
{
  "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?

REPLACING NATIVE MOBILE APPS

JUST MOBILE

FOR EVERONE

ALL || NOTHING

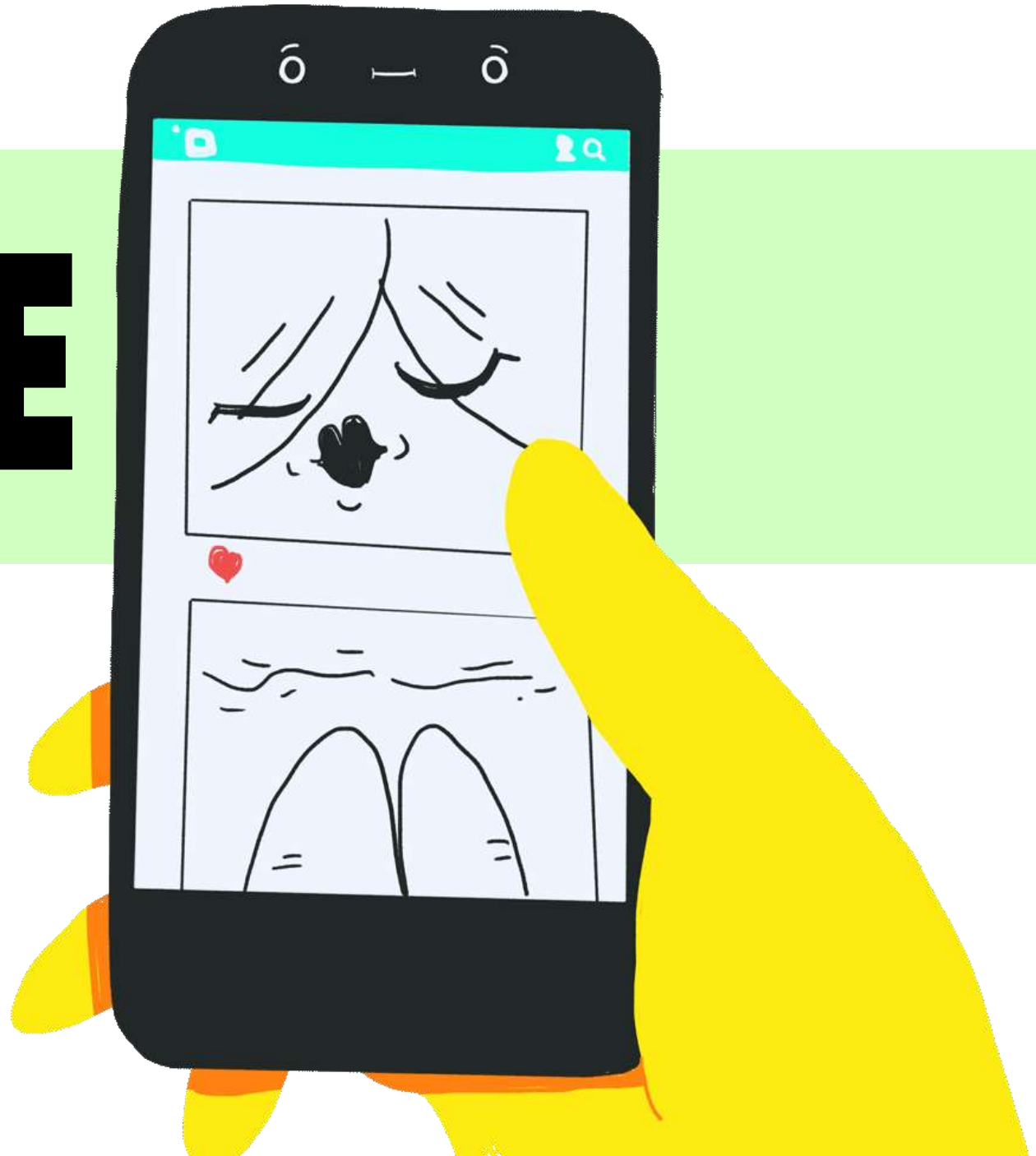
A REASON TO BURN IT TO THE GROUND

PROGRESSIVE

RESPONSIVE

CONNECTIVITY INDEPENDENT

APP-LIKE



HISTORIC EL PASO
FRESH
#DumbTo

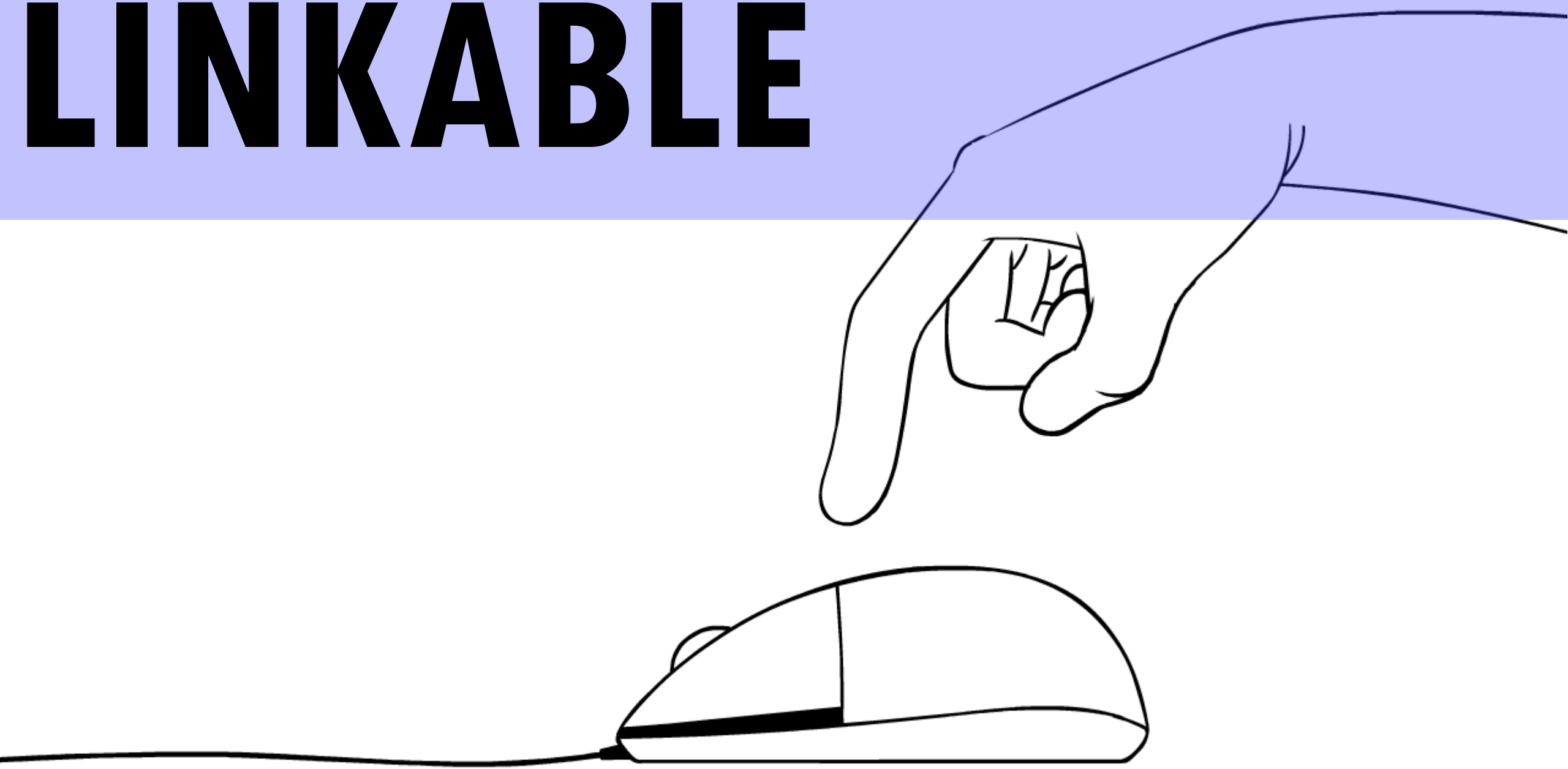
SAFE

DISCOVERABLE

RE-ENGAGING

INSTALLABLE

LINKABLE



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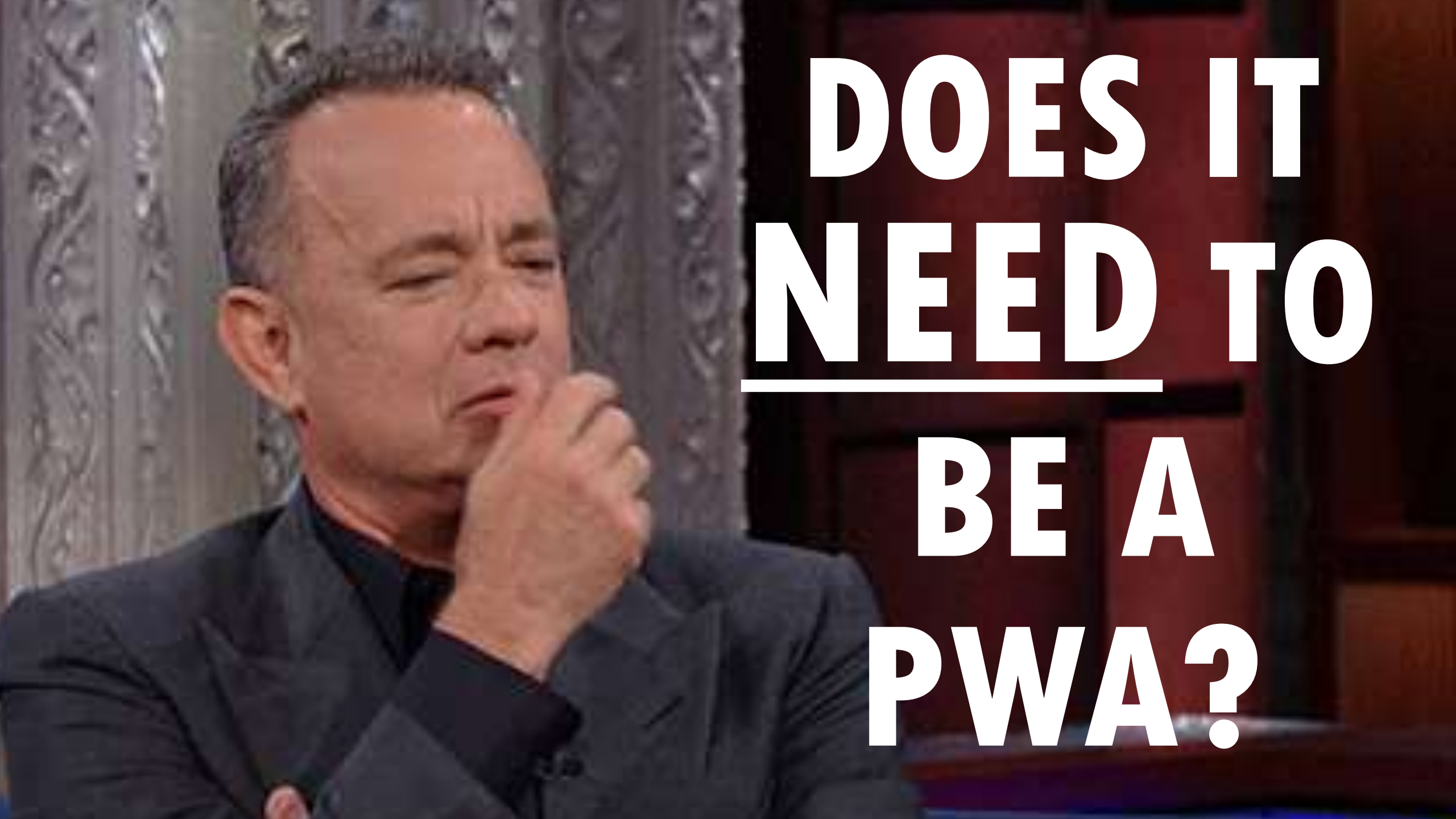
DOES IT
NEED TO
BE A
PWA?

Yes

Nah

YOUR BLOG

Yes

Nah

DATA ERY

Yes

Nah

ECOMMERCE

LIVE CODING

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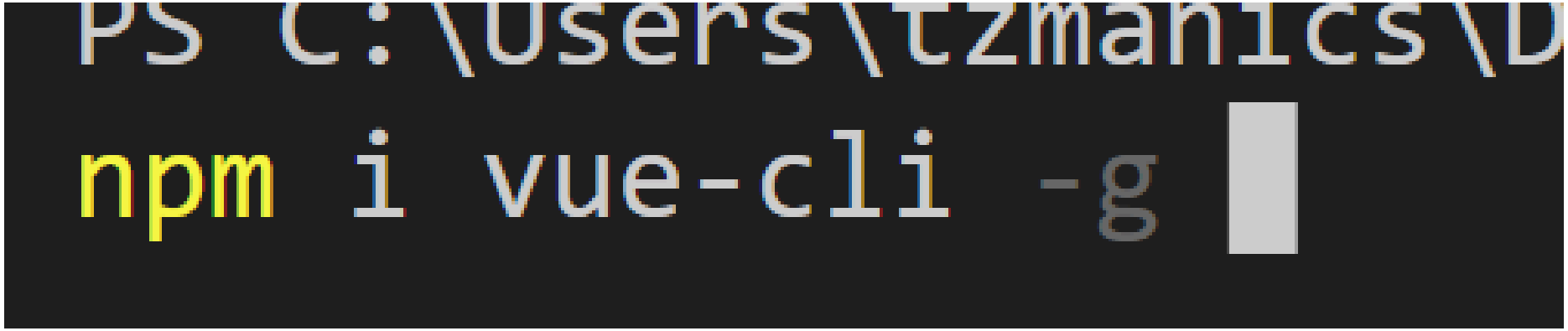
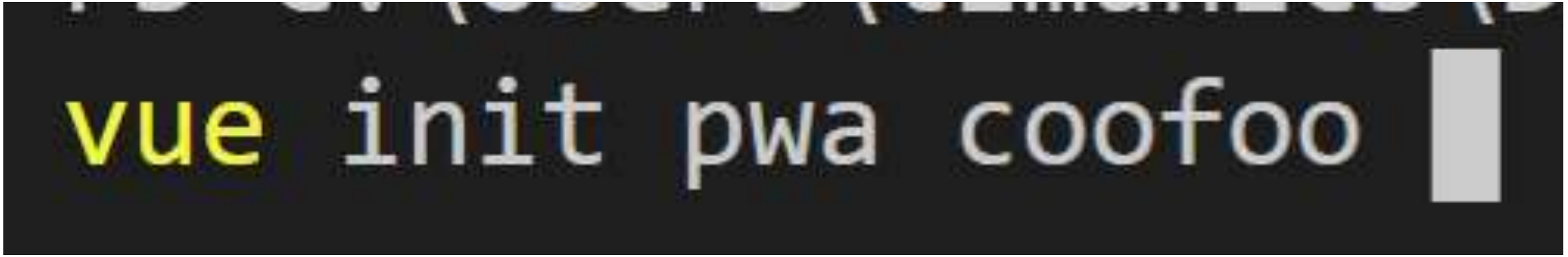
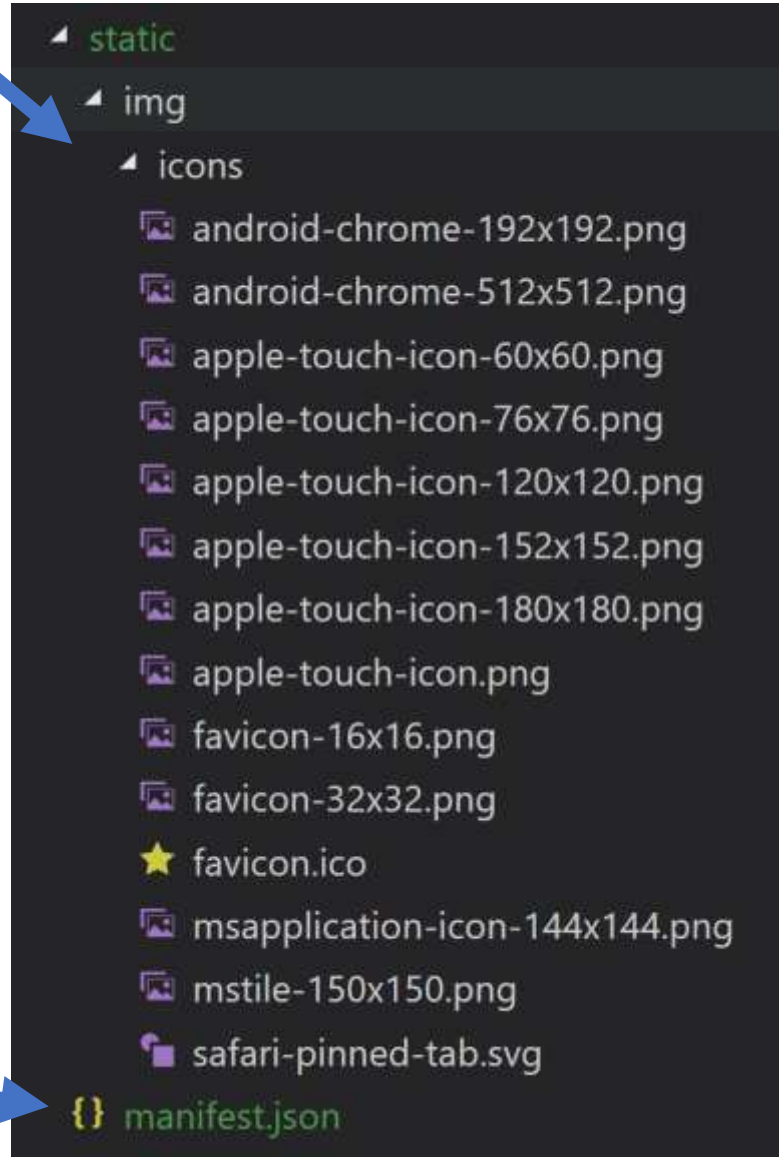
<live-code-screenshots>

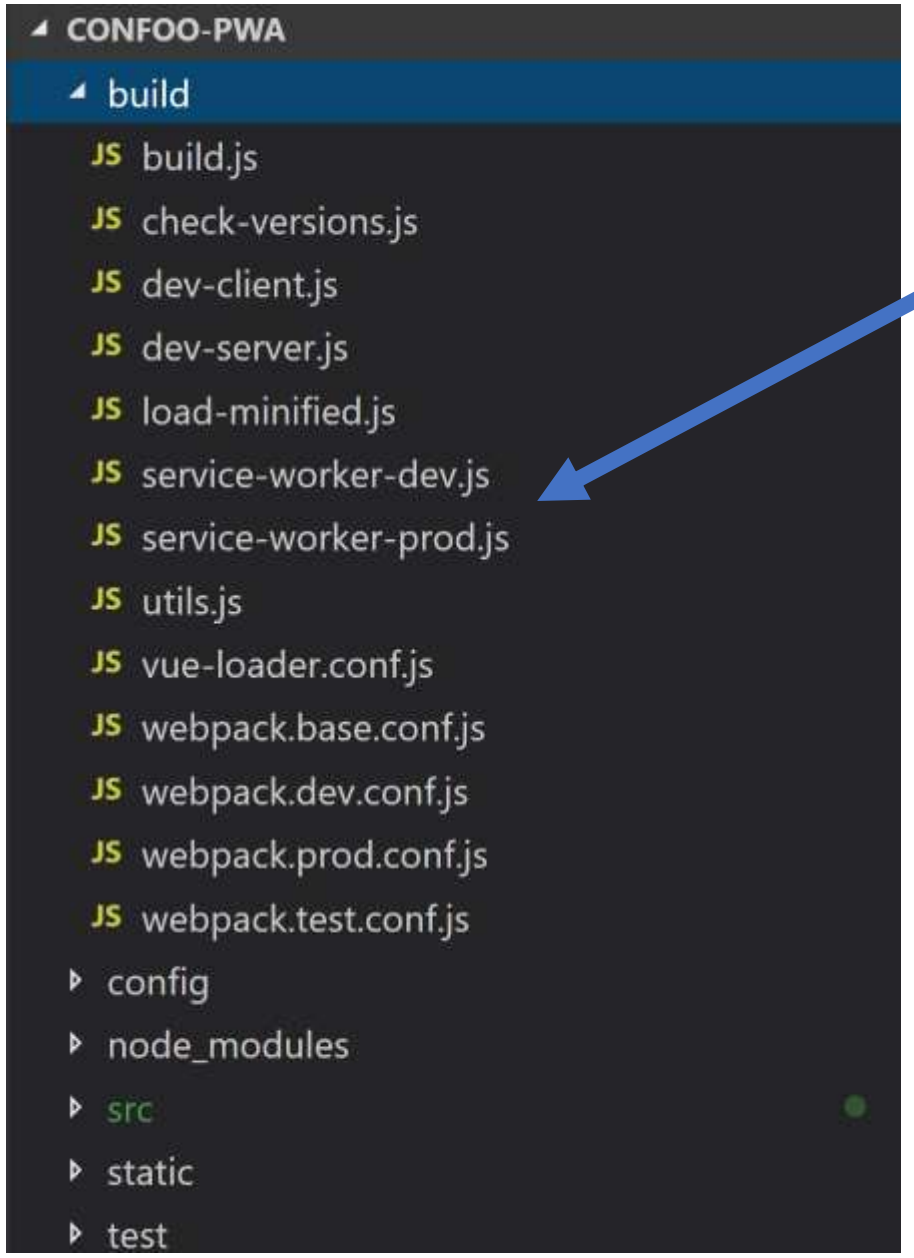





```
npm i @progress/kendo-ui @progress/kendo-dateinputs-vue-wrapper
@progress/kendo-theme-default
```

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





{} manifest.json ×

```
{
  "name": "confoo-pwa",
  "short_name": "👍😋🤎",
  "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"
}

```

JS main.js

```
// The Vue build version to load with the `import` command
// (runtime-only or standalone) has been set in webpack.base.conf with an alias.
import Vue from 'vue'
import App from './App'
import { DatePicker, DateinputsInstaller } from '@progress/kendo-dateinputs-vue-wrapper'
import '@progress/kendo-ui'
import '@progress/kendo-theme-default/dist/all.css'

Vue.config.productionTip = false
Vue.use(DateinputsInstaller)

/* eslint-disable no-new */
new Vue({
  el: '#app',
  template: '<App/>',
  components: {
    App,
    DatePicker
  }
})
```

App.vue

```vue
<template>
  <div id="app">
    <kendo-datepicker />
  </div>
</template>

<script>
import Hello from './components/Hello'

export default {
  name: 'app',
  components: {
    Hello
  }
}
</script>
```

localhost:8080

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

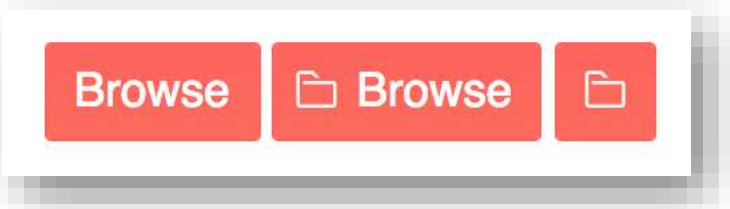
Icons

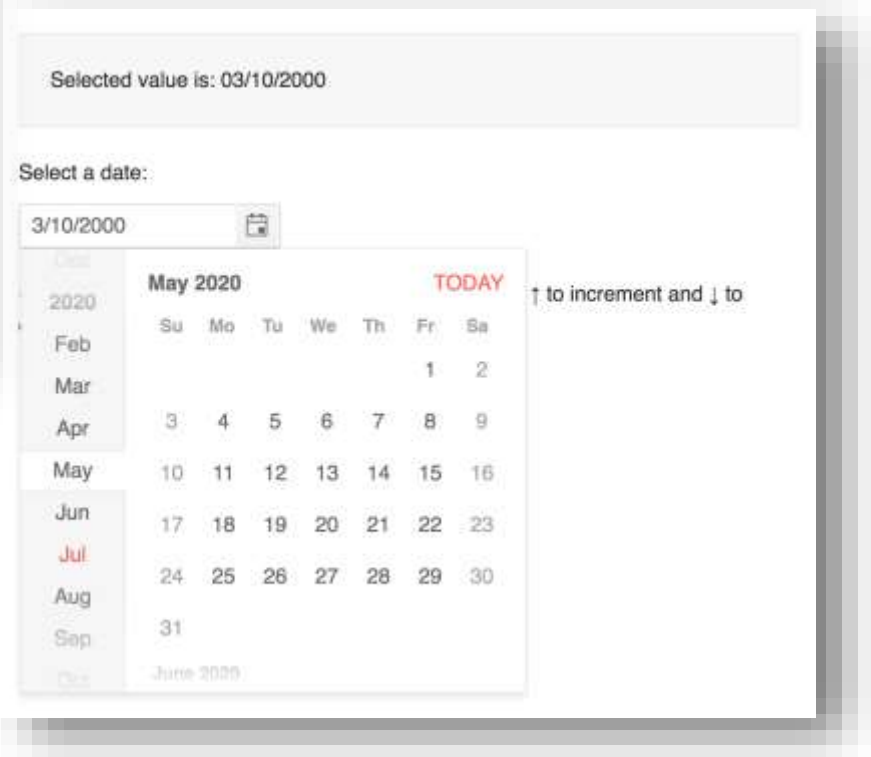
192x192

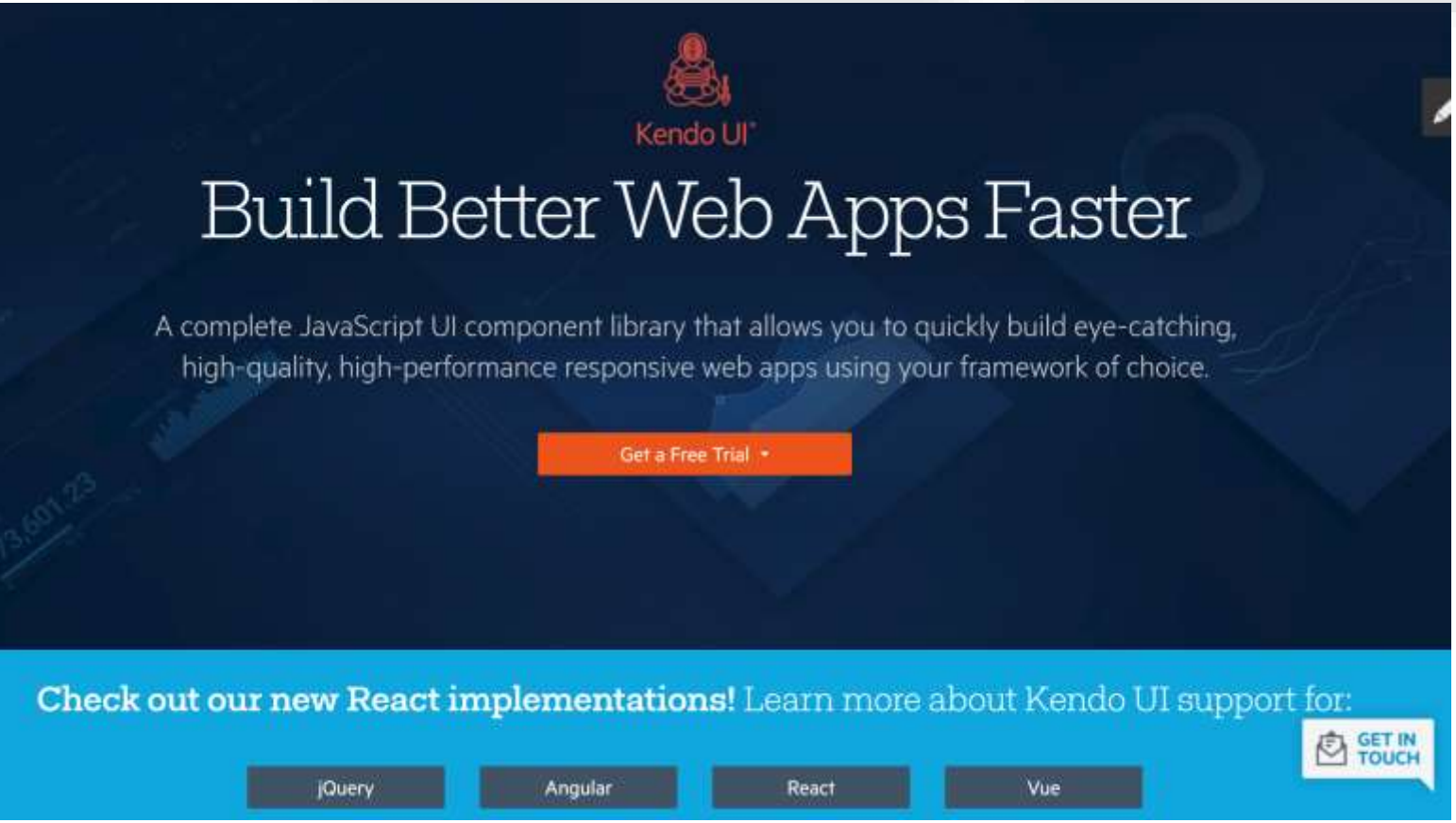
image/png

</live-code-screenshots>

Kendoui.com







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HNPWA

Hacker News readers as Progressive Web Apps

A spiritual successor to TodoMVC

COME & TALK TO ME

i really wanna know you

SensioLabs
UNIVERSITY
Innovative e-learning program for Symfony and
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The Most Complete UI Component Library for Awesome Apps
kendoui.com
Cool Components
Terrific Themes
Build Truly Native Mobile Apps with JavaScript, TypeScript, Angular or Vue.js
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QR CODE

THANKS CONFOO ❤

SLIDES & CODE WILL BE TWEETED FROM

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