

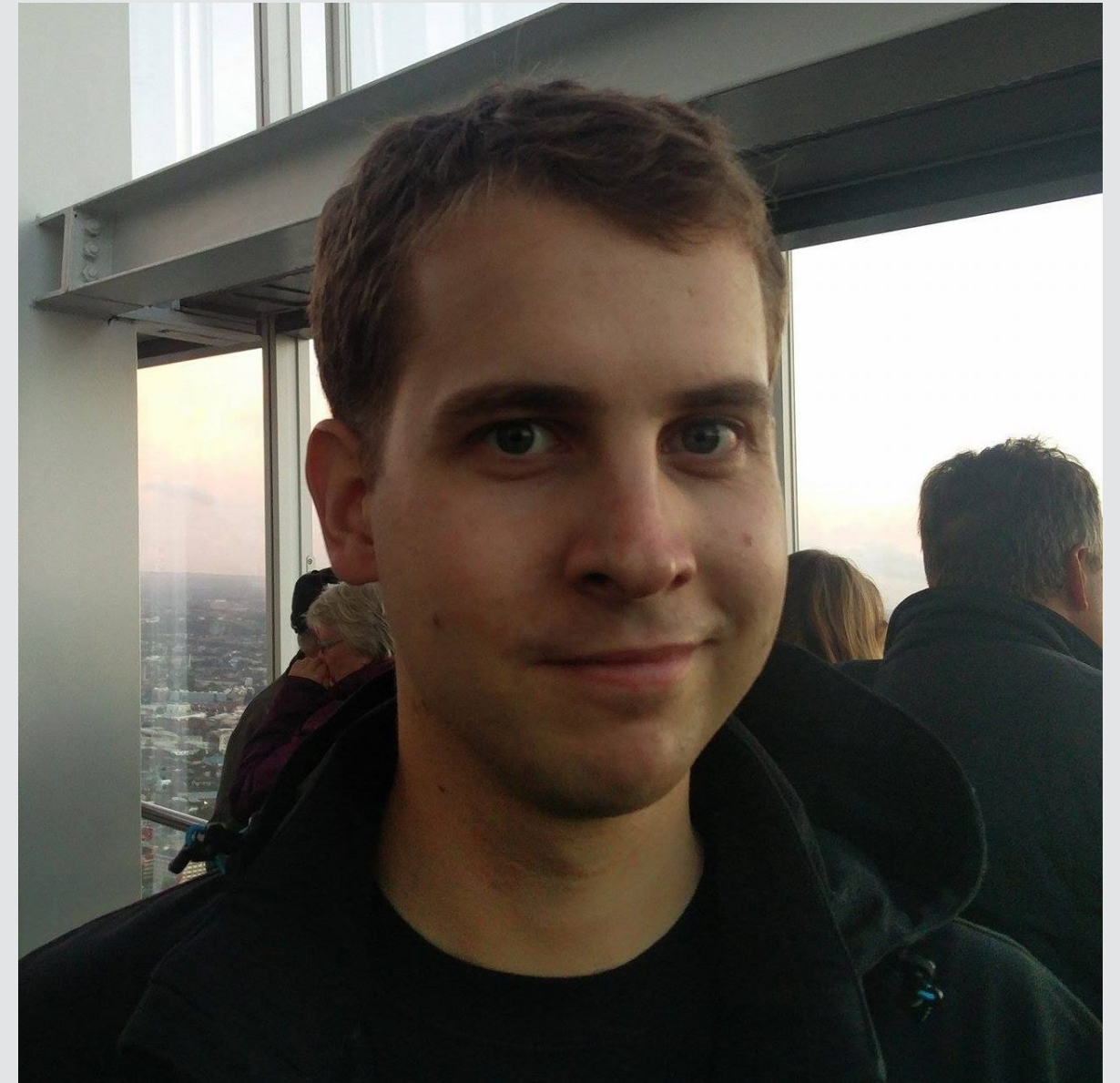
Building hypermedia app

About me

- Wrocław .NET User Group
- Away from .NET since November
- Zazuko GmbH
- Interests (random order)
 - REST APIs
 - Web Components
 - Semantic Web

🔗 [/tpluscode](#)

🐦 [@tpluscode](#)



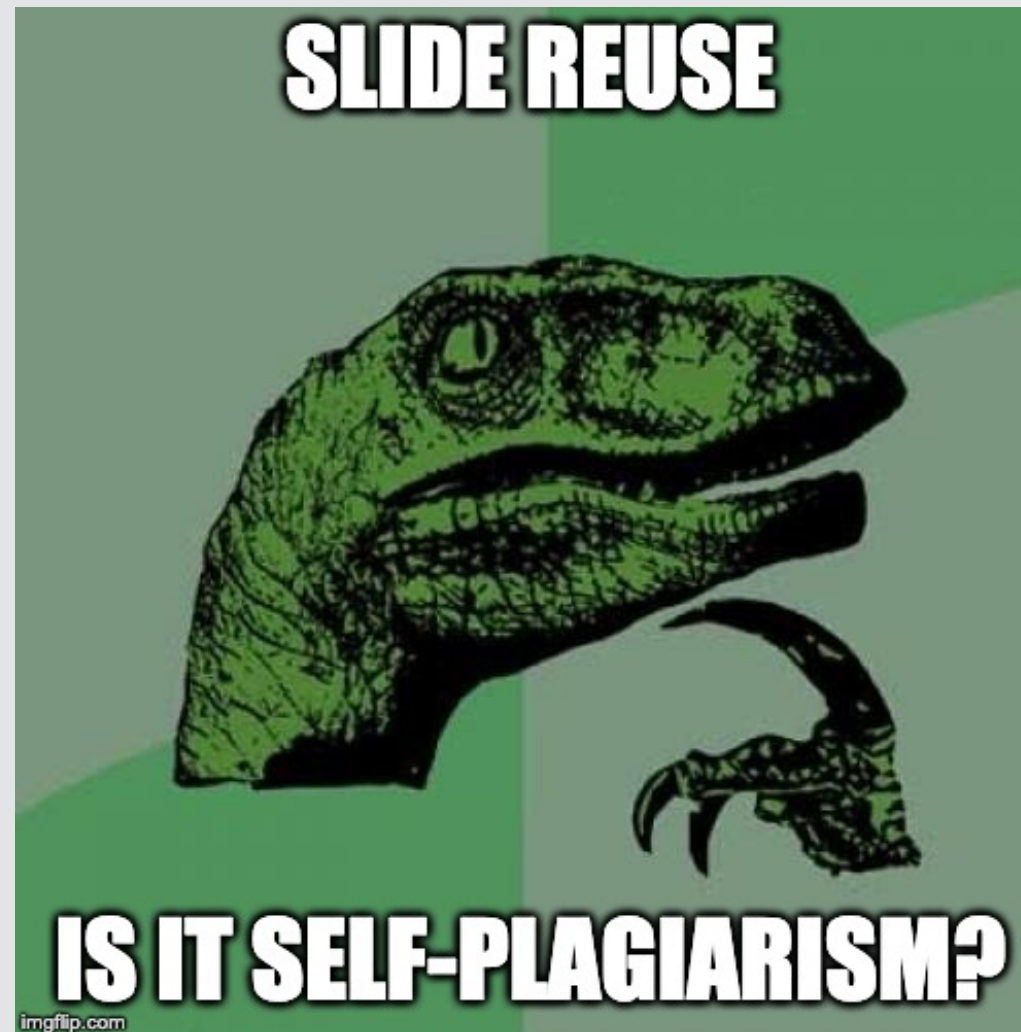
Fed up with web development

My experience before 2016

- Brittle APIs
 - No links
 - Little-to-no docs => tribal knowledge
- UI code full of out-of-band knowledge
 - SPA routing is the devil
 - Hardcoded assumptions about representations

Moar hypermedia

Practice hypermedia like the world is ending



Making it happen

Hydra

Hypermedia through JSON-LD

 [/hydra-cg](https://github.com/hydra-cg)

```
{
  "@context": [
    "https://schema.org/",
    "https://www.w3.org/ns/hydra/core",
    { "@vocab": "https://hypermedia.app/vocab#" }
  ],
  "@id": "https://hypermedia.app/Tomasz",
  "@type": "Person",
  "name": "Tomasz",
  "familyName": "Pluskiewicz",
  "friends": {
    "@id": "https://hypermedia.app/Tomasz/friends",
    "supportedOperation": { "method": "POST", "expects": "Person" }
  }
}
```

@lit-any

Functional approach to building UI

- late-bound UI - no upfront assumptions about representations
- no frills alternative to Redux and Virtual DOM
- using best practices and modern ES6 coding techniques

🔗 [/hypermedia-app/lit-any-views](#)

@lit-any

```
import { html } from 'lit-any'
import resourceIs from './matchers.js'

export default {
  valueMatcher: resourceIs('https://www.w3.org/ns/hydra/core#Collection'),
  template: (collection, next) => {
    return html`${item}`
  }
}
```

Disclaimer: not current implementation

hydrofoil-shell

A Single-Page App skeleton

- Web Components
- API-agnostic
- Design-agnostic
- Customizable

```
import { HydrofoilShell } from '@hydrofoil/hydrofoil-shell/hydrofoil-shell';  
import { load } from './lib/client';
```

```
class AppShell extends HydrofoilShell {  
  async loadResourceInternal(url) {  
    return load(url);  
  }  
}
```

```
customElements.define('app-shell', AppShell);
```

Demo time

Fingers crossed

Please follow

<https://building.hypermedia.app>

 [/hypermedia-app](#)

 [@HypermediaApp](#)