

Frontend 2015-2016

Viktor Turskyi



iForum 2016

YEAR 2015

A meme featuring Woody and Buzz Lightyear from the movie Toy Story. Woody is on the left, looking slightly concerned. Buzz is on the right, looking excited and pointing his right hand towards the right. The background is a simple room with a door and a window. The text "JAVASCRIPT" is overlaid in large, white, bold letters with a black outline at the top, and "EVERYWHERE" is overlaid in the same style at the bottom.

JAVASCRIPT

EVERYWHERE

Increasing complexity of FE business logic



ECMAScript 6 finalized



ES6 everywhere

Babel is a JavaScript compiler.

Use next generation JavaScript, today.

Deprecated `_escaped_fragment_`

Deprecating our AJAX crawling scheme

Wednesday, October 14, 2015

tl;dr: We are no longer recommending the [AJAX crawling](#) proposal we made [back in 2009](#).

Goodbye "undefined is not a function"



Addy Osmani › Public

Feb 21, 2015



Improved exception messages: Goodbye "undefined is not a function". Hello "[http://foo.bar](#) is not a function"

```
Developer Tools - about:blank
Elements Network Sources Timeline »
<top frame> Preserve log
> var foo = {};
< undefined
> foo.bar();
▶ Uncaught ▶ TypeError: undefined is not a function VM98:2
```

Old

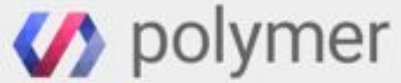
```
Developer Tools - about:blank
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< undefined
> foo.bar();
▶ Uncaught ▶ TypeError: foo.bar is not a function VM96:2
```

New

Node v4.0 (september 2015) merged Node and IO.js



Polymer 1.0 - production ready

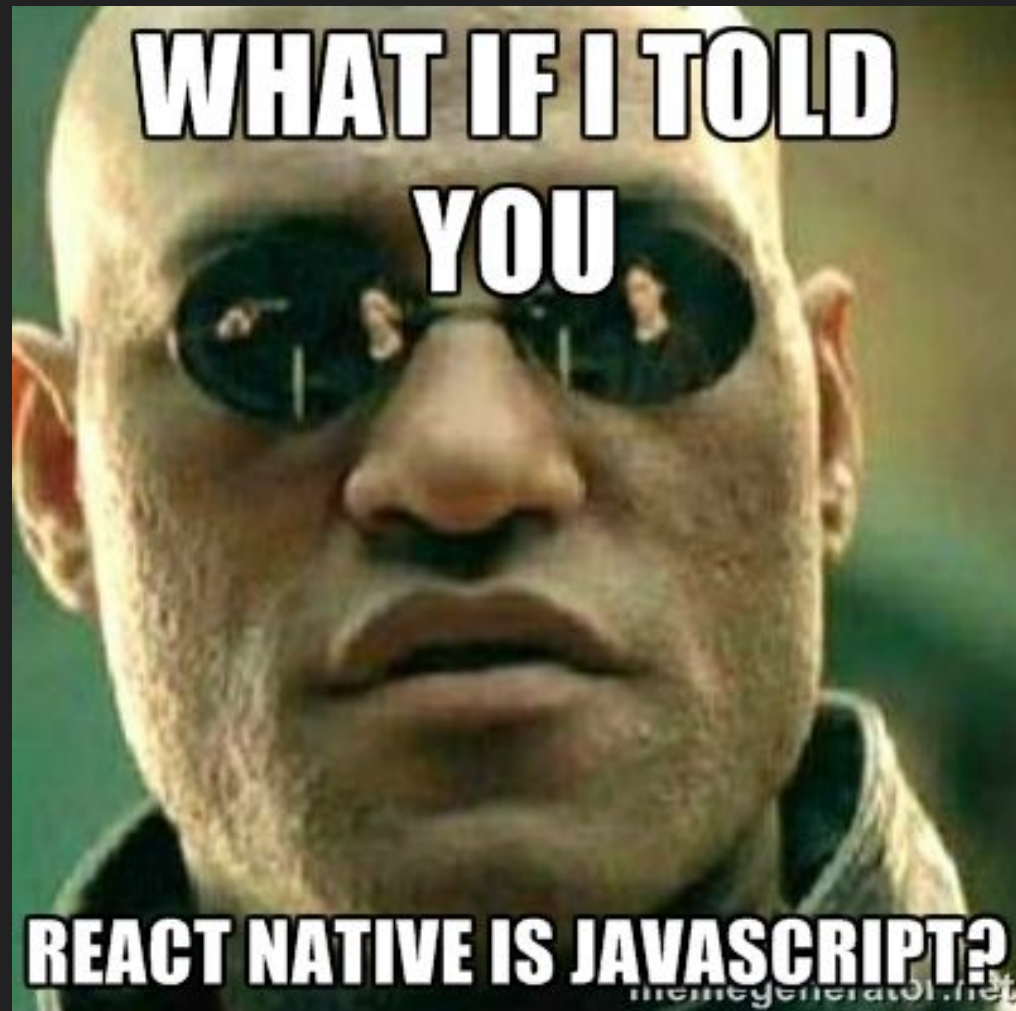




I KNOW

REACT JS

React-Native (iOS and Android)



Facebook switches to Babel

Deprecating JSTransform and react-tools

June 12, 2015 by [Paul O'Shannessy](#)

Today we're announcing the deprecation of react-tools and JSTransform.

HTTP/2

For Faster and Safer Internet

A lot of JavaScript courses



Microsoft Visual Studio Code

ASP.NET Core

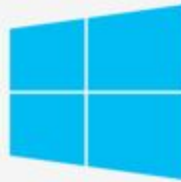
Develop ASP.NET and Node applications at lightning speed

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Microsoft Edge

Death of Java and Flash

Chrome no longer supports NPAPI (technology required for Java applets)

The Java plug-in for web browsers relies on the cross platform plugin architecture NPAPI, which has been supported by all major web browsers for over a decade. Google's Chrome version 45 (scheduled for release in September 2015) drops support for NPAPI, impacting plugins for Silverlight, Java, Facebook Video and other similar NPAPI based plugins.

Popularity of Isomorphic apps



Lost simplicity of Web development



YEAR 2016

End of support of IE 8, 9, 10, 11 (only security upd)

Support for older versions
of Internet Explorer ended
on January 12th, 2016

No outdated browsers

Chrome

Firefox

Safari

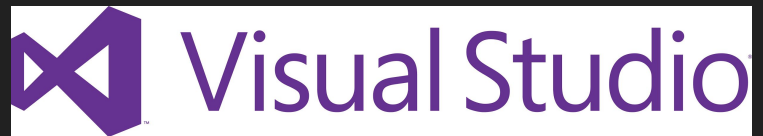
Edge

Opera

Android Chrome

iOS Safari

Increasing popularity of web-based editors



React native main priority for Facebook



React Native

High level frameworks in React world

Based on:

- React
- React-Router
- Redux
- Relay

```
hack --platform=react app.js
```



Increasing production use of HTML5 APIS

Service workers API

Notification API

Network API

GeoLocation API

Video API

etc

WebAssembly support in browsers



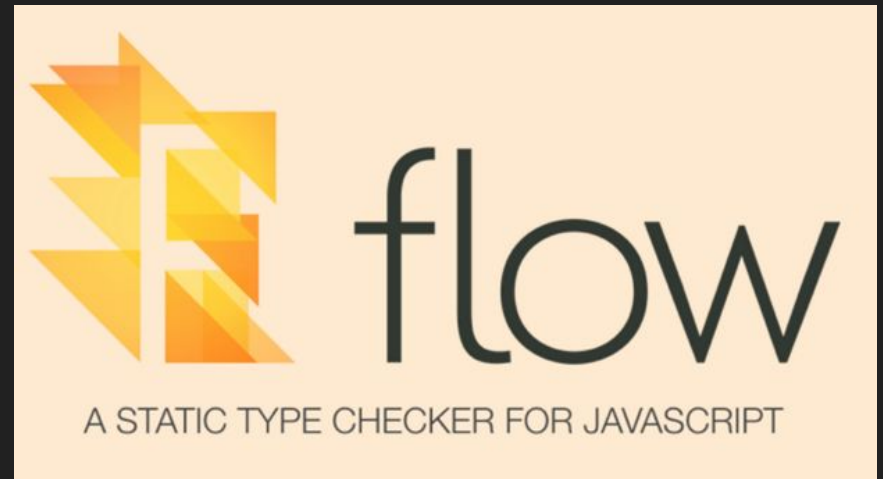
WebAssembly



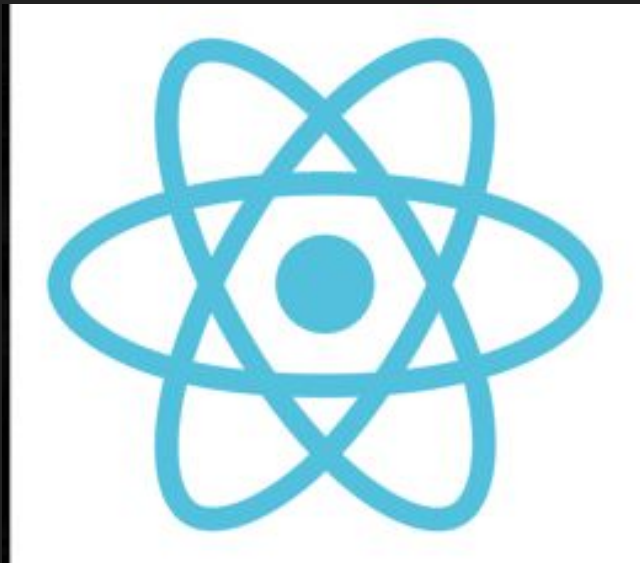
Experiments with functional languages



Static types



Isomorphic JS support in all frameworks

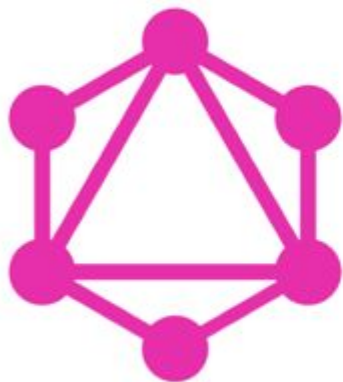


NOT SURE ABOUT

Relay/GraphQL

<https://facebook.github.io/graphql/>

<https://facebook.github.io/relay/>



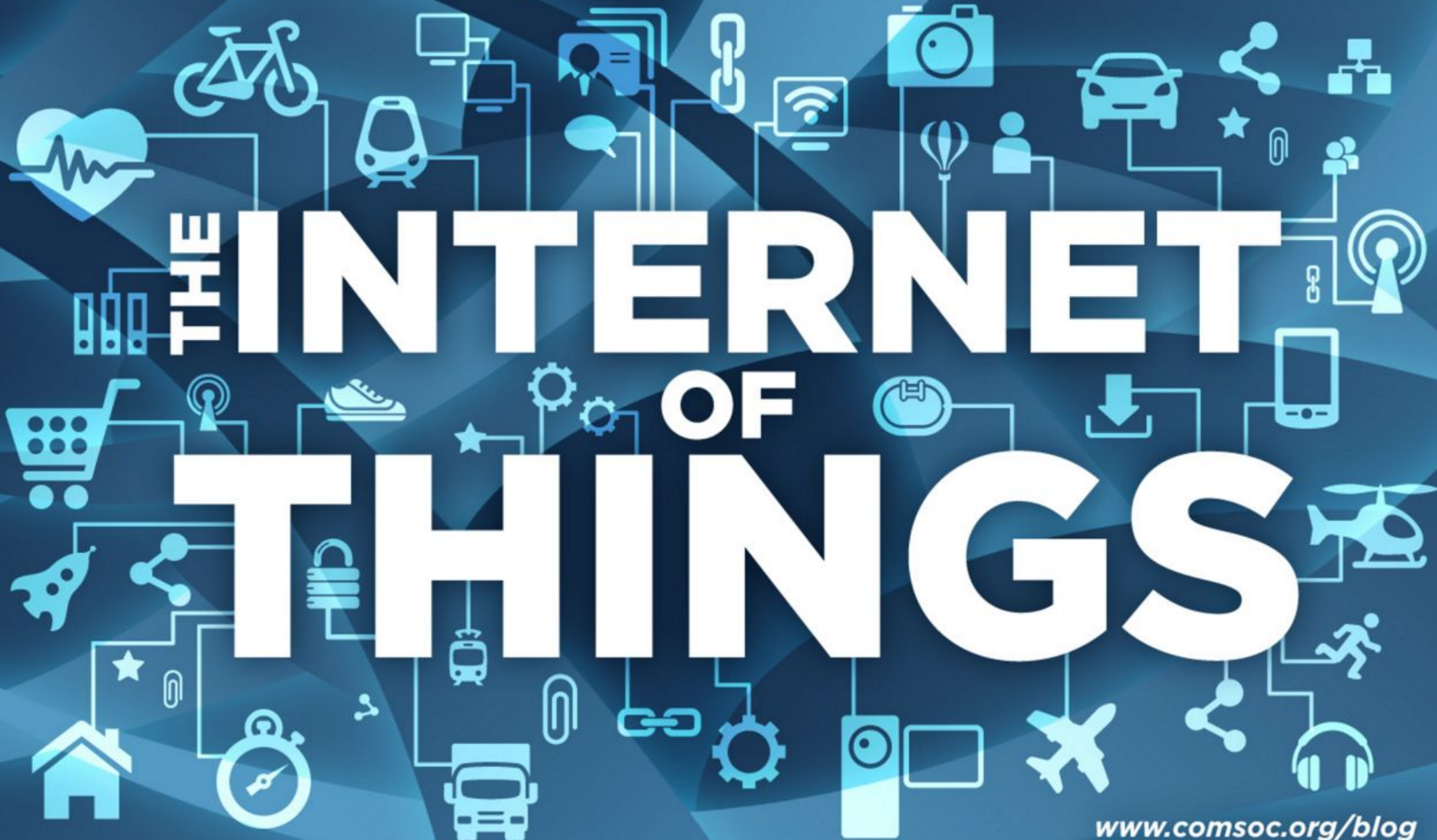
Vs



Backend-As-A-Service (BAAS)



Internet of Things (IoT)



WebComponents



Viktor Turskyi (koorchik)

viktor@webbylab.com

<https://twitter.com/koorchik>

<https://github.com/koorchik>



<https://webbylab.com>