EVERYTHING YOU NEED TO NODE

WHAT ARE WE DOING HERE

- the usual suspects
- the unusual suspect
- what you might suspect

TARA Z MANICSIC

Developer Advocate – Progress

Google Developer Expert

Cincy Women Who Code

Cincy NodeSchool

Always Forward w dshaw

@tzmanics

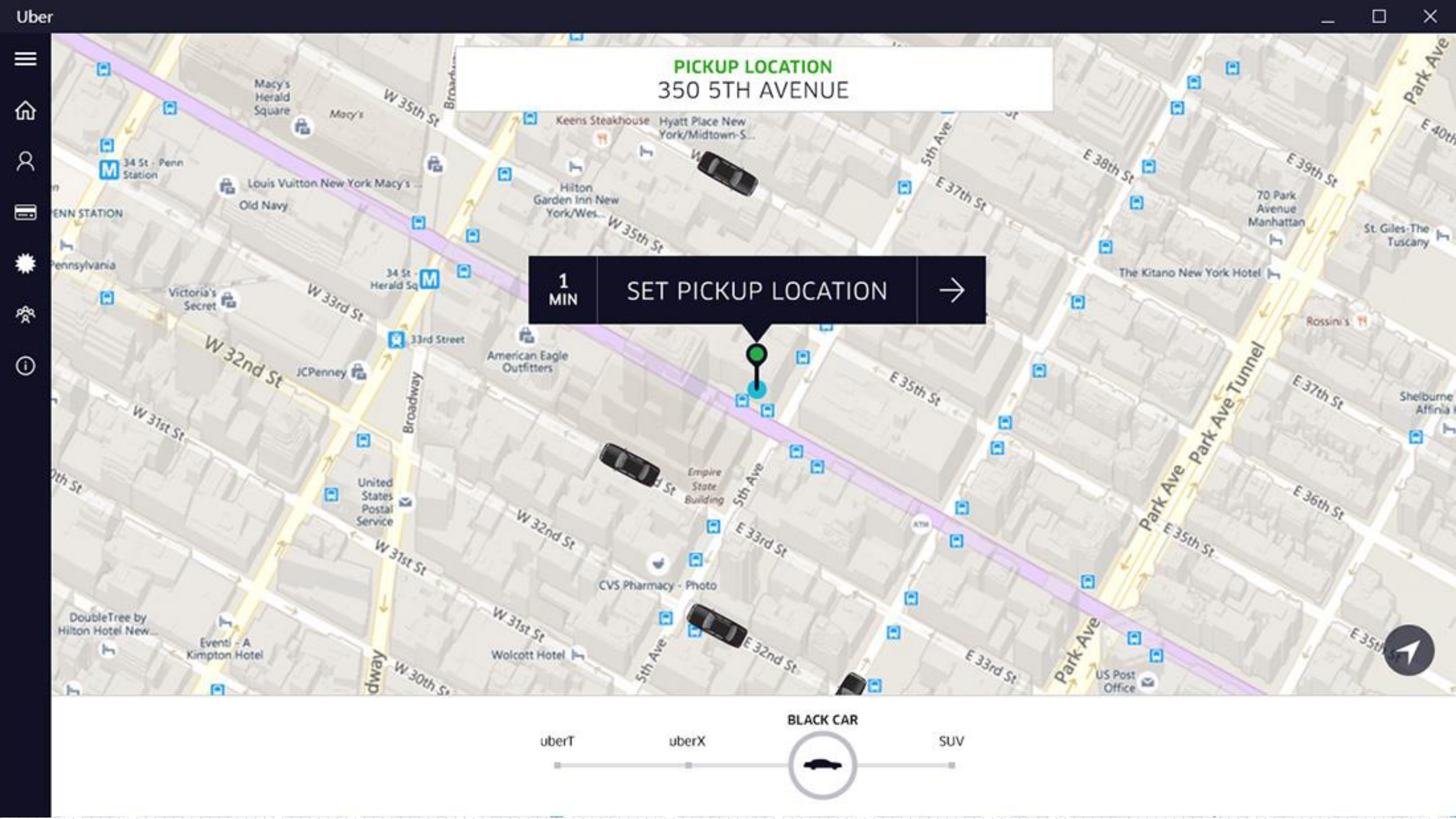
THE USUAL SUSPECTS

- microservices
- backend
- backend microservices

THE UNUSUAL SUSPECTS

- realtime apps
- games
- machine learning
- universal rendering
- file reading/parsing
- iot

FOR
REALTIME



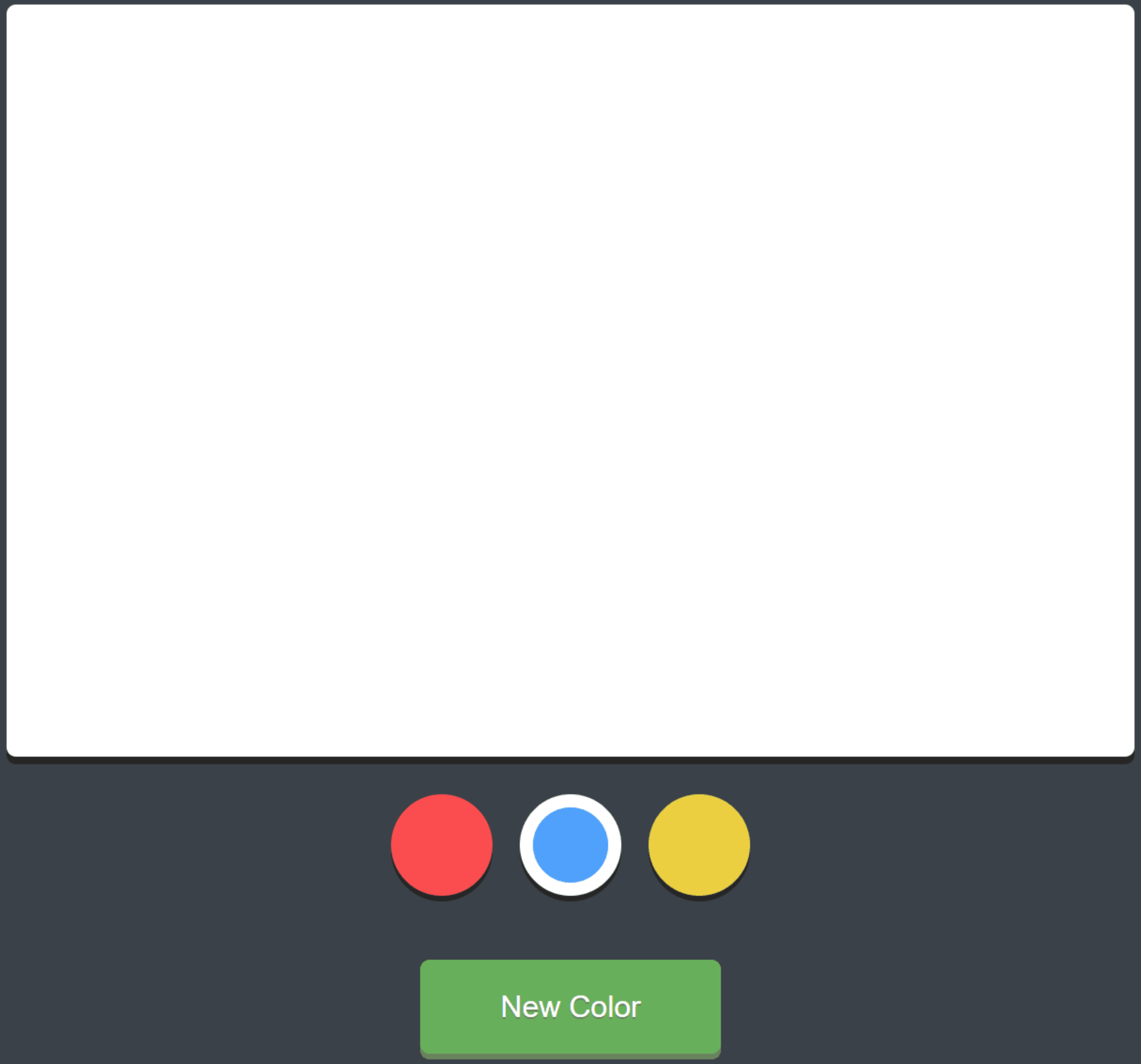
Uber

PICKUP LOCATION
350 5TH AVENUE

1 MIN SET PICKUP LOCATION

uberT uberX BLACK CAR SUV

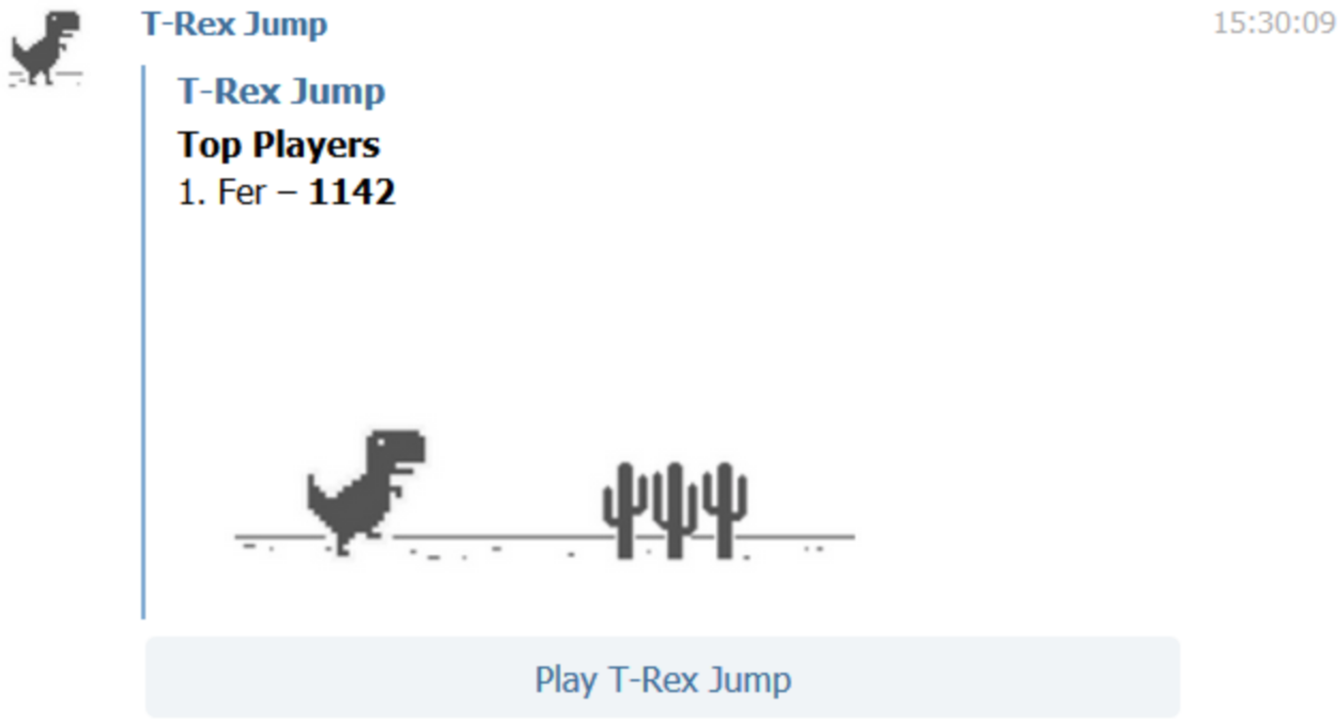
http://drawwithme.herokuap



ITS ALL
FUN AND
GAMES

Fernando García Álvarez Follow
Software Engineering student. Android / Web enthusiast
Jan 4 · 6 min read

How to code Chrome's T-Rex as a Telegram game using Node.js



T-Rex Jump 15:30:09

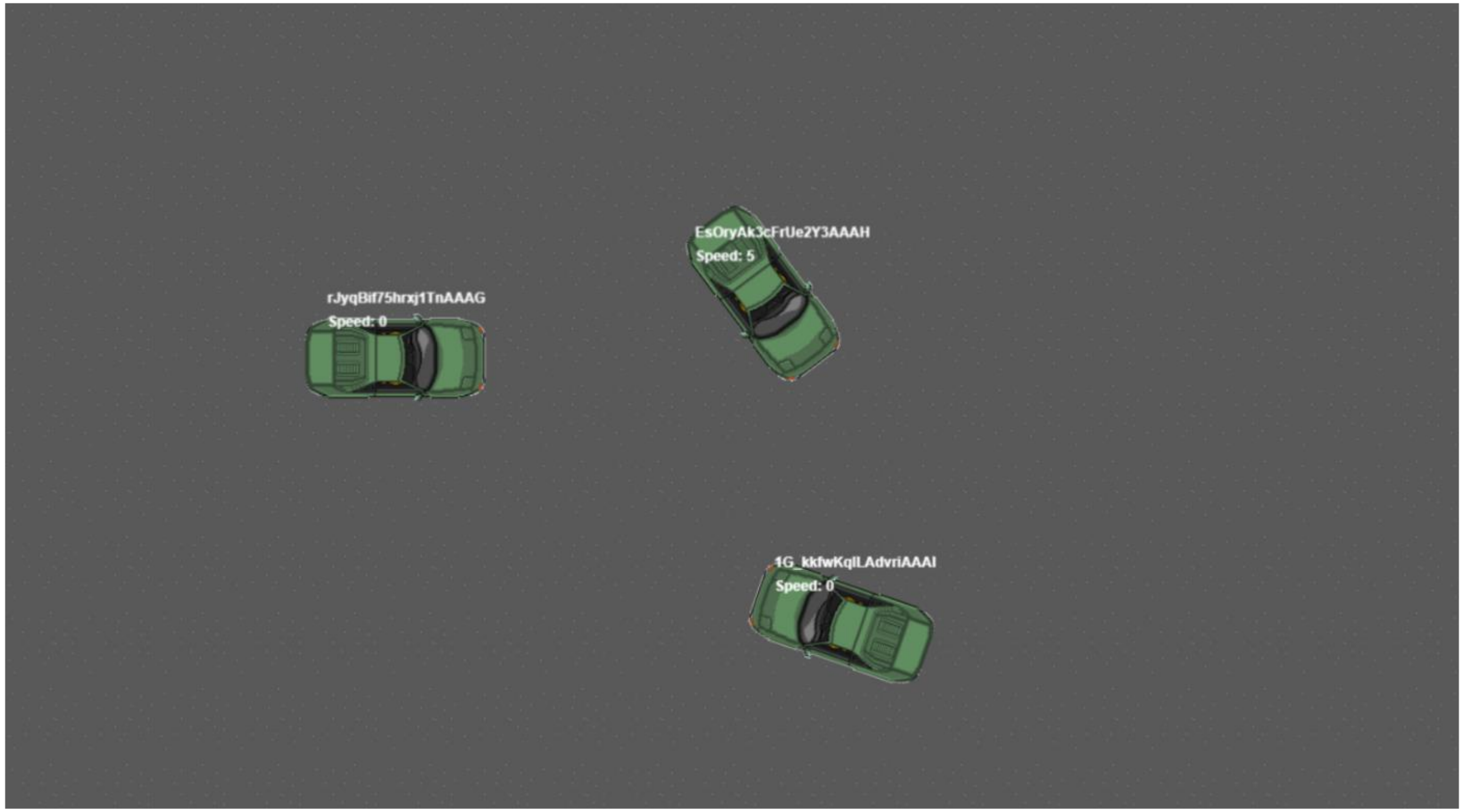
T-Rex Jump

Top Players
1. Fer – **1142**

Gustavo Domaradzki Follow

JavaScript Developer from Brazil. Dreams about moving abroad for work. Loves to code, make friends and eat fish & chips.

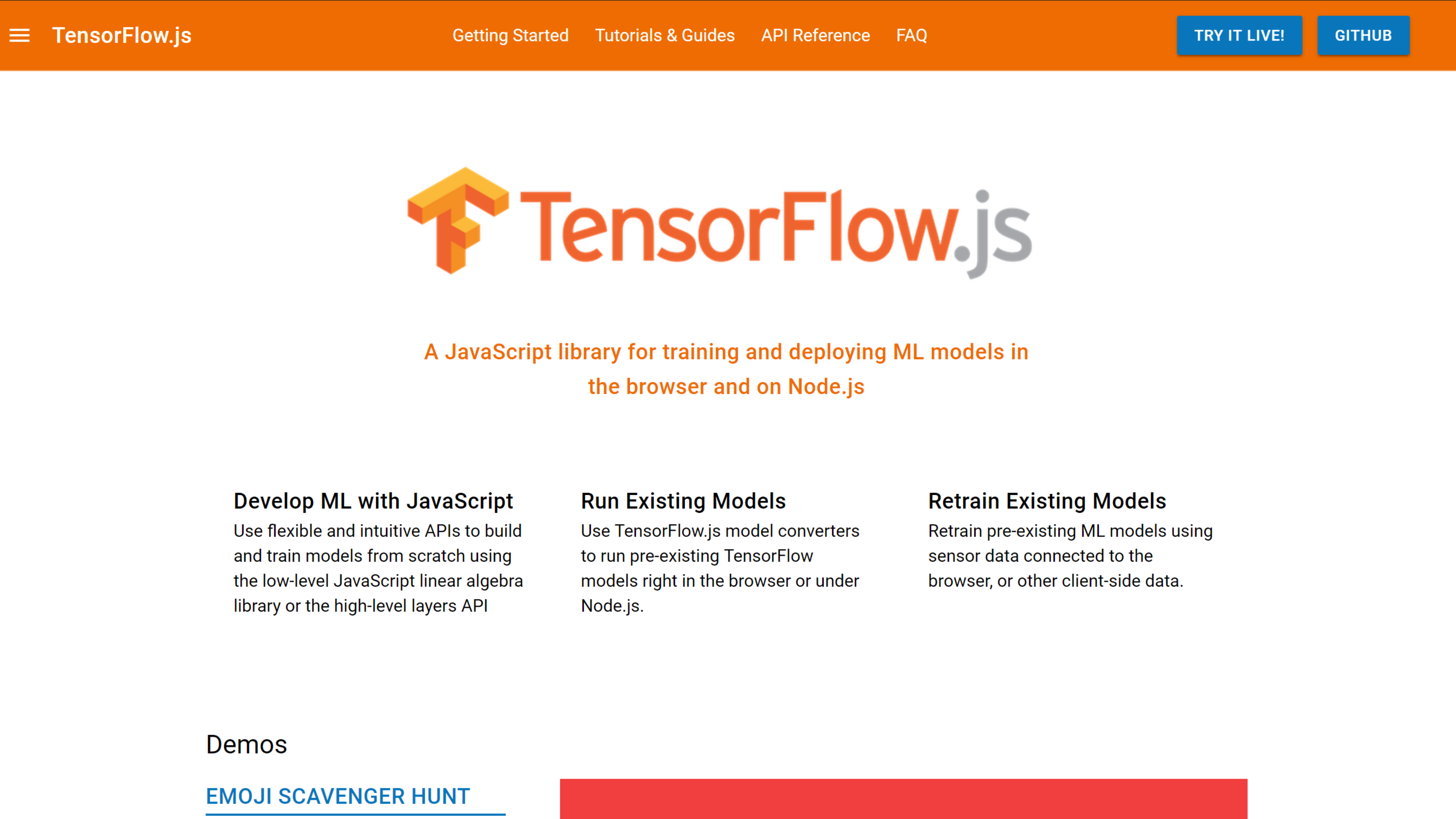
Jan 10 · 4 min read



How To Make a Simple Multiplayer Online Car Game with JavaScript

Hello everyone, today I'll be writing about how to make a simple multiplayer

LEARNING
MACHINE
LEARNING



TensorFlow.js

A JavaScript library for training and deploying ML models in the browser and on Node.js

Develop ML with JavaScript

Use flexible and intuitive APIs to build and train models from scratch using the low-level JavaScript linear algebra library or the high-level layers API

Run Existing Models

Use TensorFlow.js model converters to run pre-existing TensorFlow models right in the browser or under Node.js.

Retrain Existing Models

Retrain pre-existing ML models using sensor data connected to the browser, or other client-side data.

Demos

EMOJI SCAVENGER HUNT

Playing Mortal Kombat with TensorFlow.js. Transfer learning and data augmentation

Follow @mgechev 9,933 followers

Edit · Oct 20, 2018 · 25 minutes read ·

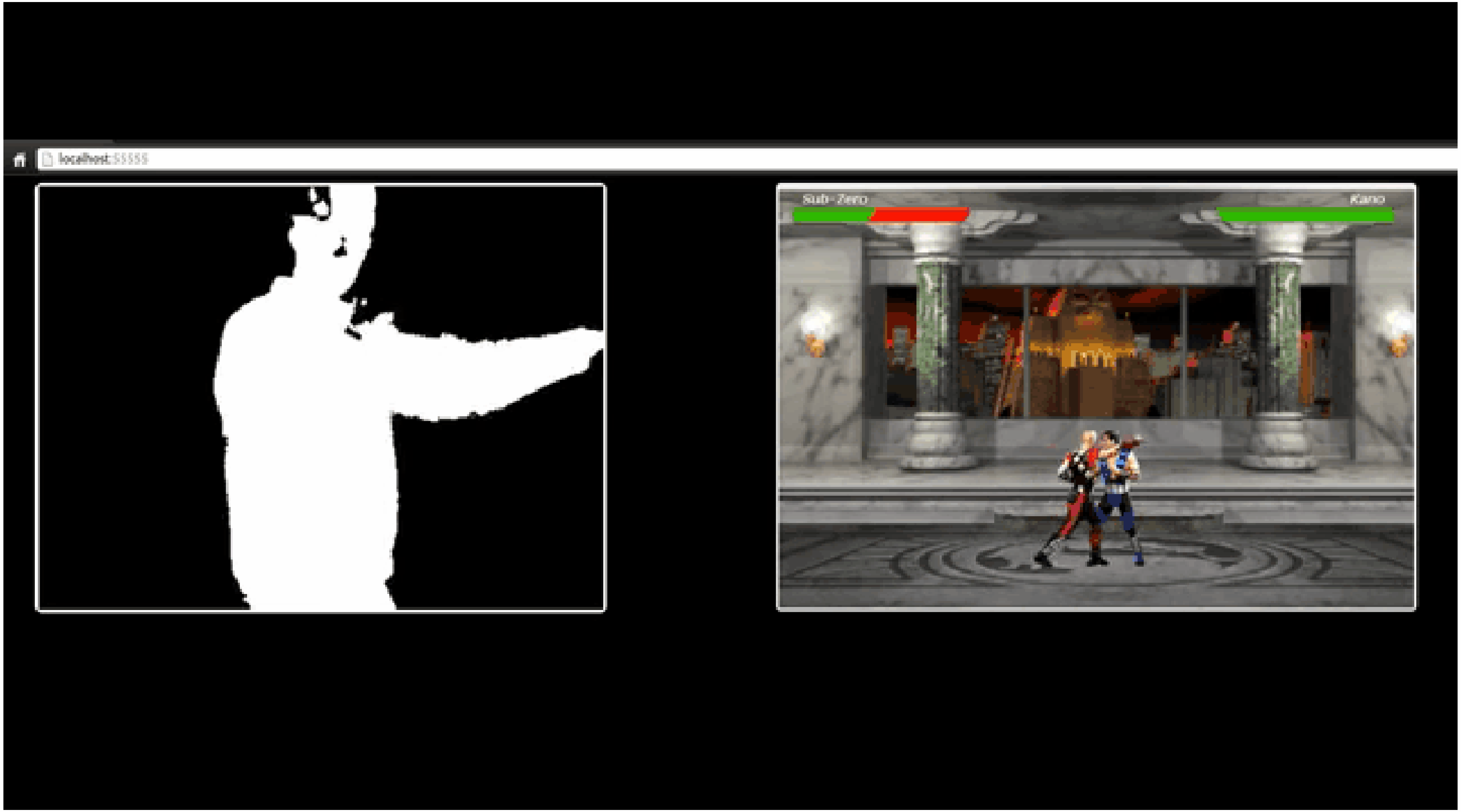
MACHINE LEARNING TENSORFLOW CNN TRANSFER LEARNING DATA AUGMENTATION ML

https://blog.mgechev.com/

While experimenting with enhancements of the prediction model of Guess.js I started looking at deep learning. I've focused mainly on recurrent neural networks (RNNs), specifically LSTM because of their "unreasonable effectiveness" in the domain of Guess.js. In the same time, I started playing with convolutional neural networks (CNNs), which although less traditionally, are also often used for time series. CNNs are usually used for image classification, recognition, and detection.

Controlling MK.js with TensorFlow.js

account.



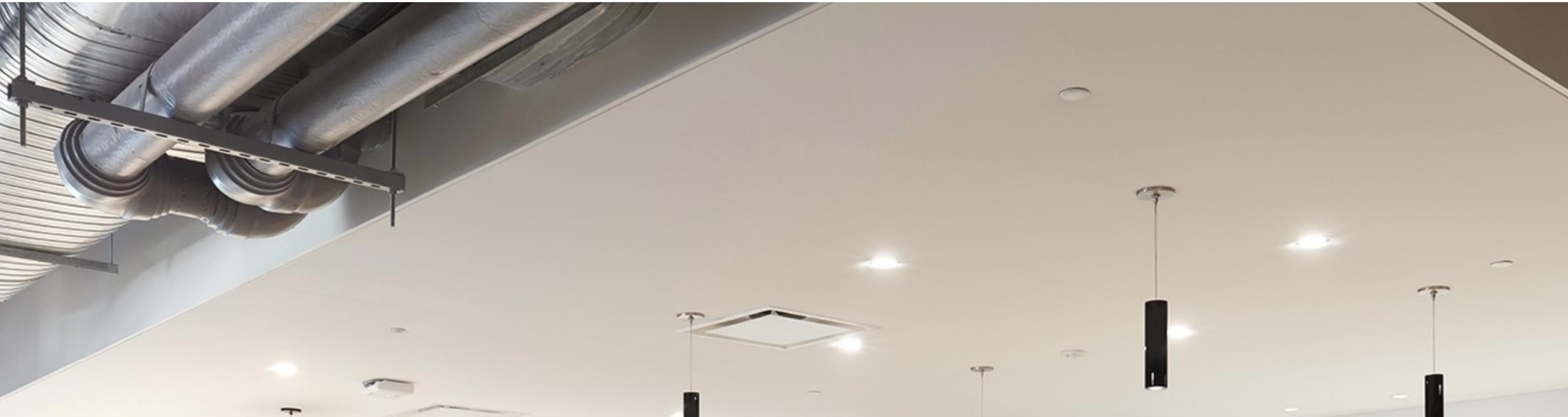
Although I had success with controlling my tiny MK clone, the algorithm was far from perfect. It

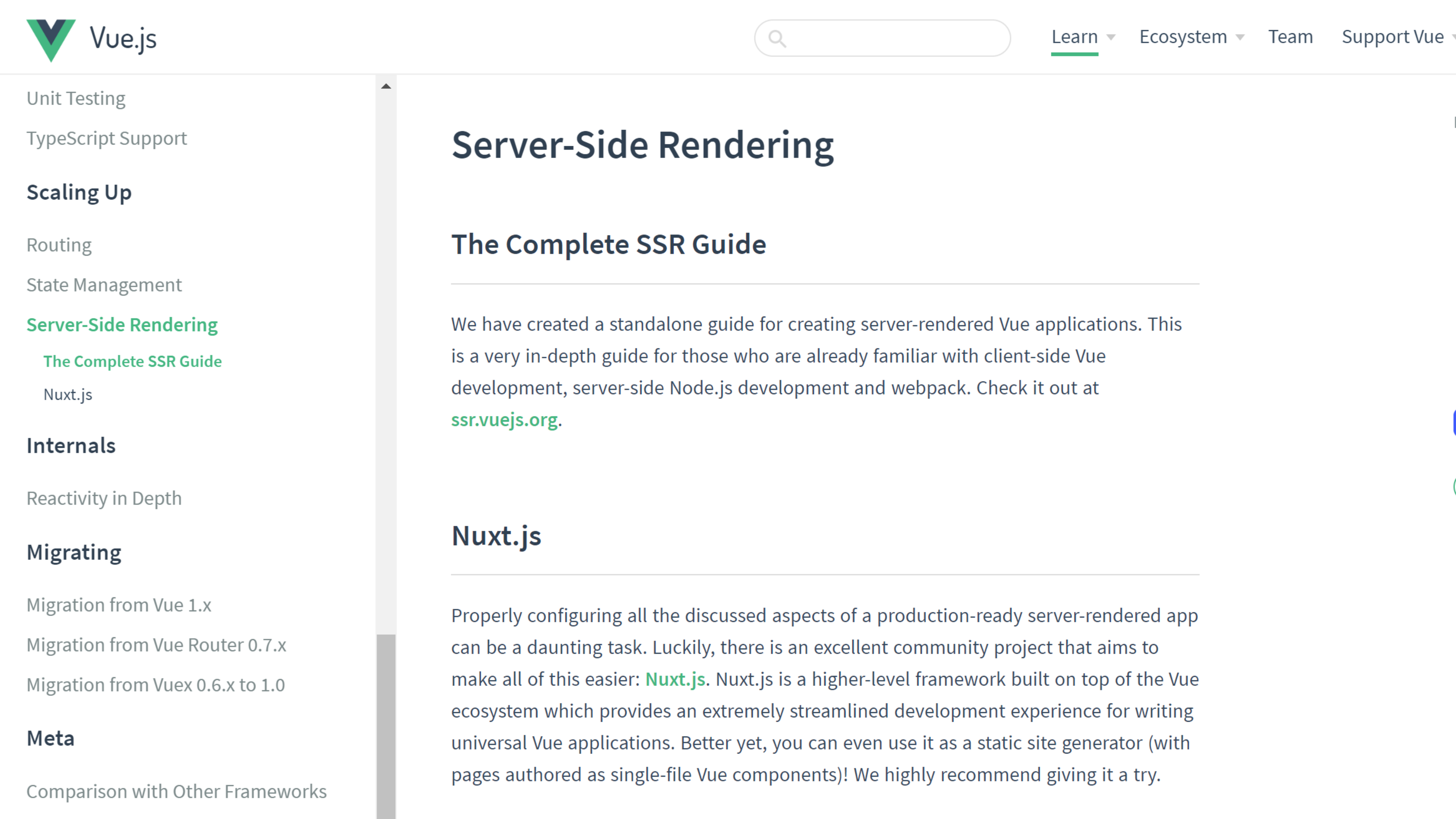
TAKING OVER THE UNIVERS AL RENDERING

Ben Hughes Follow
Jul 18 · 17 min read

Operationalizing Node.js for Server Side Rendering

As Airbnb builds more of its Frontend around Server Side Rendering, we took a look at how to optimize our server configurations to support it.





Unit Testing
TypeScript Support

Scaling Up

Routing
State Management
Server-Side Rendering
The Complete SSR Guide
Nuxt.js

Internals

Reactivity in Depth

Migrating

Migration from Vue 1.x
Migration from Vue Router 0.7.x
Migration from Vuex 0.6.x to 1.0

Meta

Comparison with Other Frameworks

Server-Side Rendering

The Complete SSR Guide

We have created a standalone guide for creating server-rendered Vue applications. This is a very in-depth guide for those who are already familiar with client-side Vue development, server-side Node.js development and webpack. Check it out at ssr.vuejs.org.

Nuxt.js

Properly configuring all the discussed aspects of a production-ready server-rendered app can be a daunting task. Luckily, there is an excellent community project that aims to make all of this easier: Nuxt.js. Nuxt.js is a higher-level framework built on top of the Vue ecosystem which provides an extremely streamlined development experience for writing universal Vue applications. Better yet, you can even use it as a static site generator (with pages authored as single-file Vue components)! We highly recommend giving it a try.

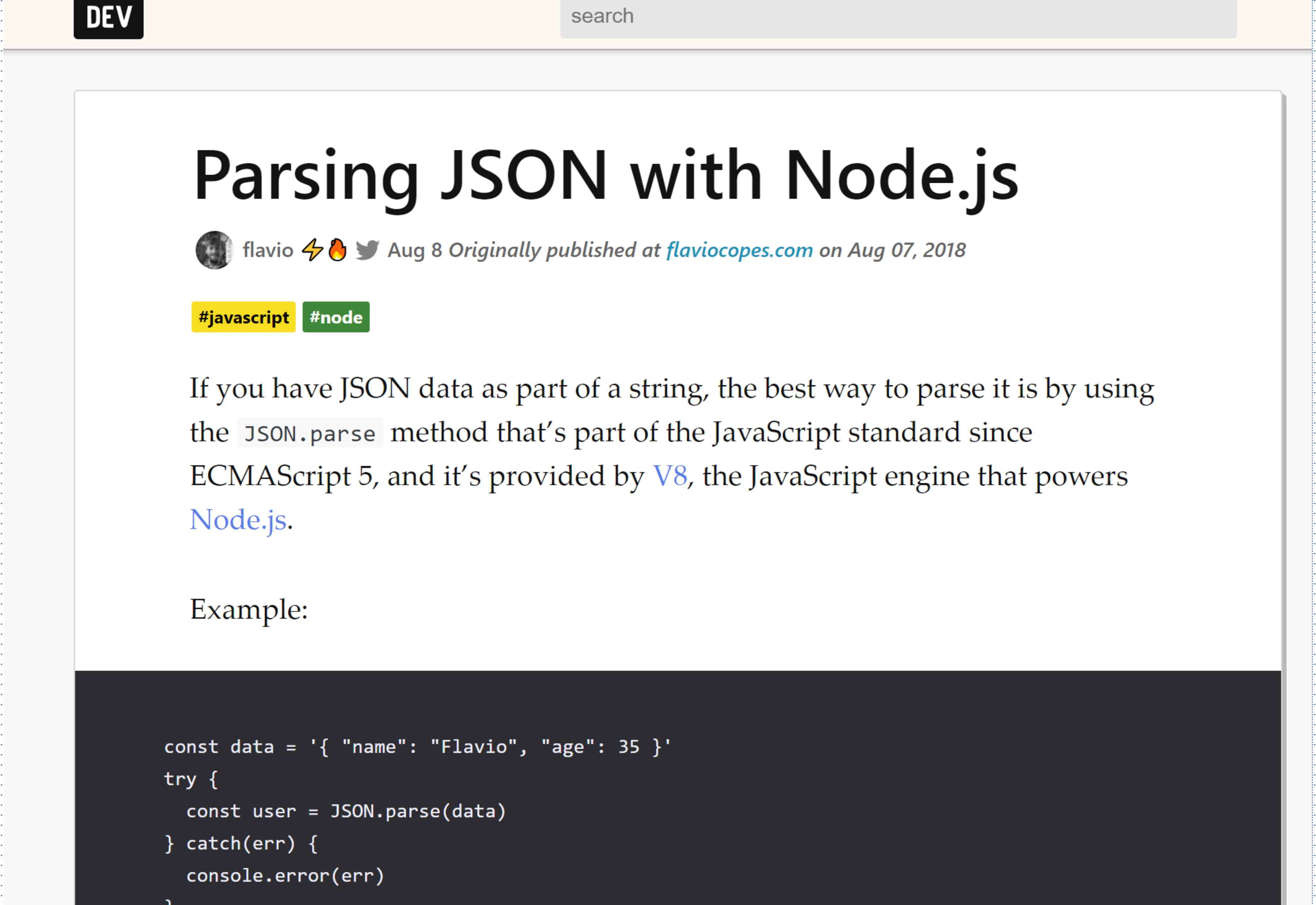
Uday Hiwarale Follow

github.com/thatisuday / Works at avizva.com / Full stack web developer, designer and tech blogger.

Apr 17 · 11 min read

Server Side Rendering (SSR) in Angular 5+ | The simplest and quickest SSR approach

FILE READING N PARSING



Parsing JSON with Node.js

flavio Aug 8 *Originally published at flaviocopes.com on Aug 07, 2018*

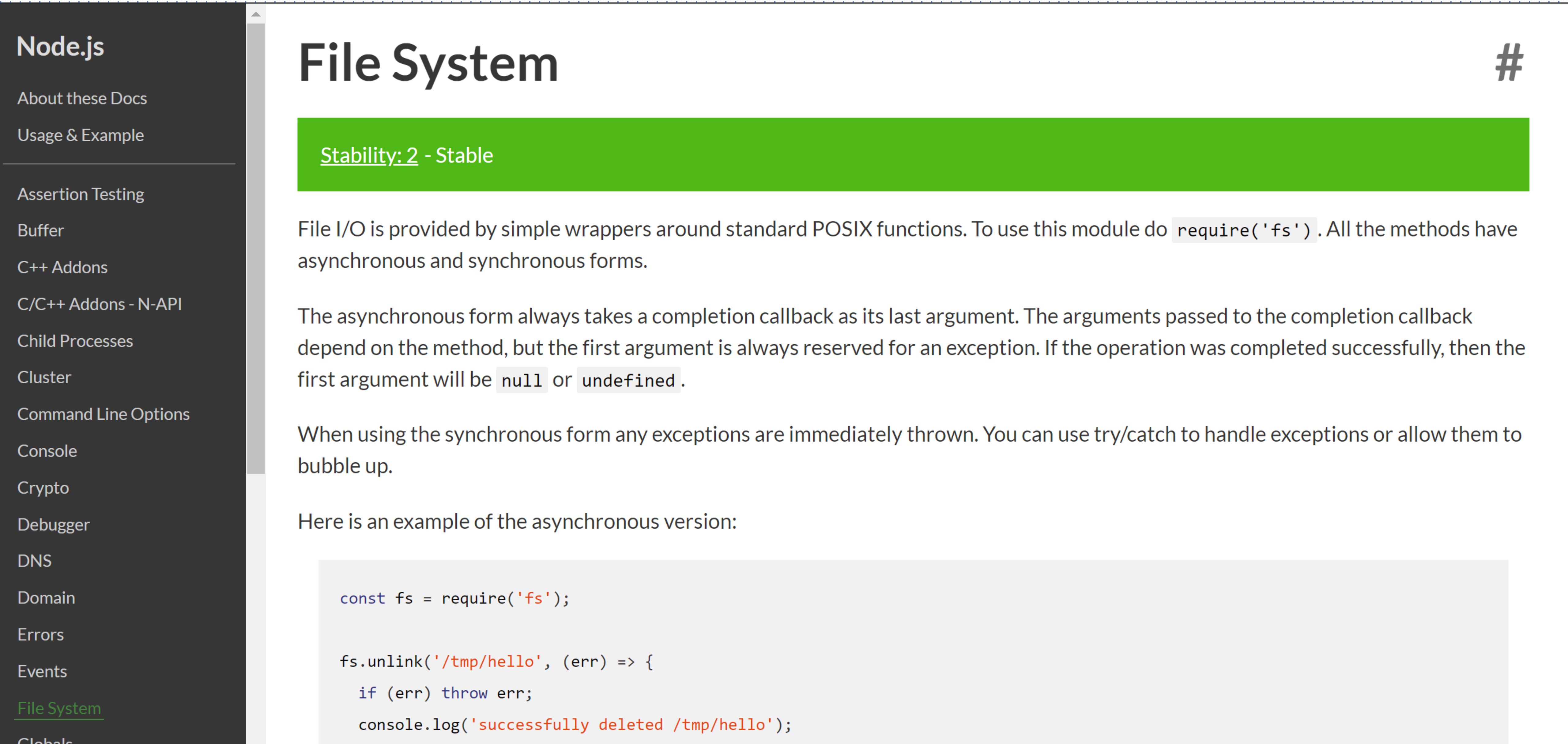
#javascript #node

If you have JSON data as part of a string, the best way to parse it is by using the `JSON.parse` method that's part of the JavaScript standard since ECMAScript 5, and it's provided by V8, the JavaScript engine that powers Node.js.

Example:

```
const data = '{ "name": "Flavio", "age": 35 }'
try {
  const user = JSON.parse(data)
} catch(err) {
  console.error(err)
}
```

https://nodejs.org



File System

#

Stability: 2 - Stable

File I/O is provided by simple wrappers around standard POSIX functions. To use this module do `require('fs')`. All the methods have asynchronous and synchronous forms.

The asynchronous form always takes a completion callback as its last argument. The arguments passed to the completion callback depend on the method, but the first argument is always reserved for an exception. If the operation was completed successfully, then the first argument will be `null` or `undefined`.

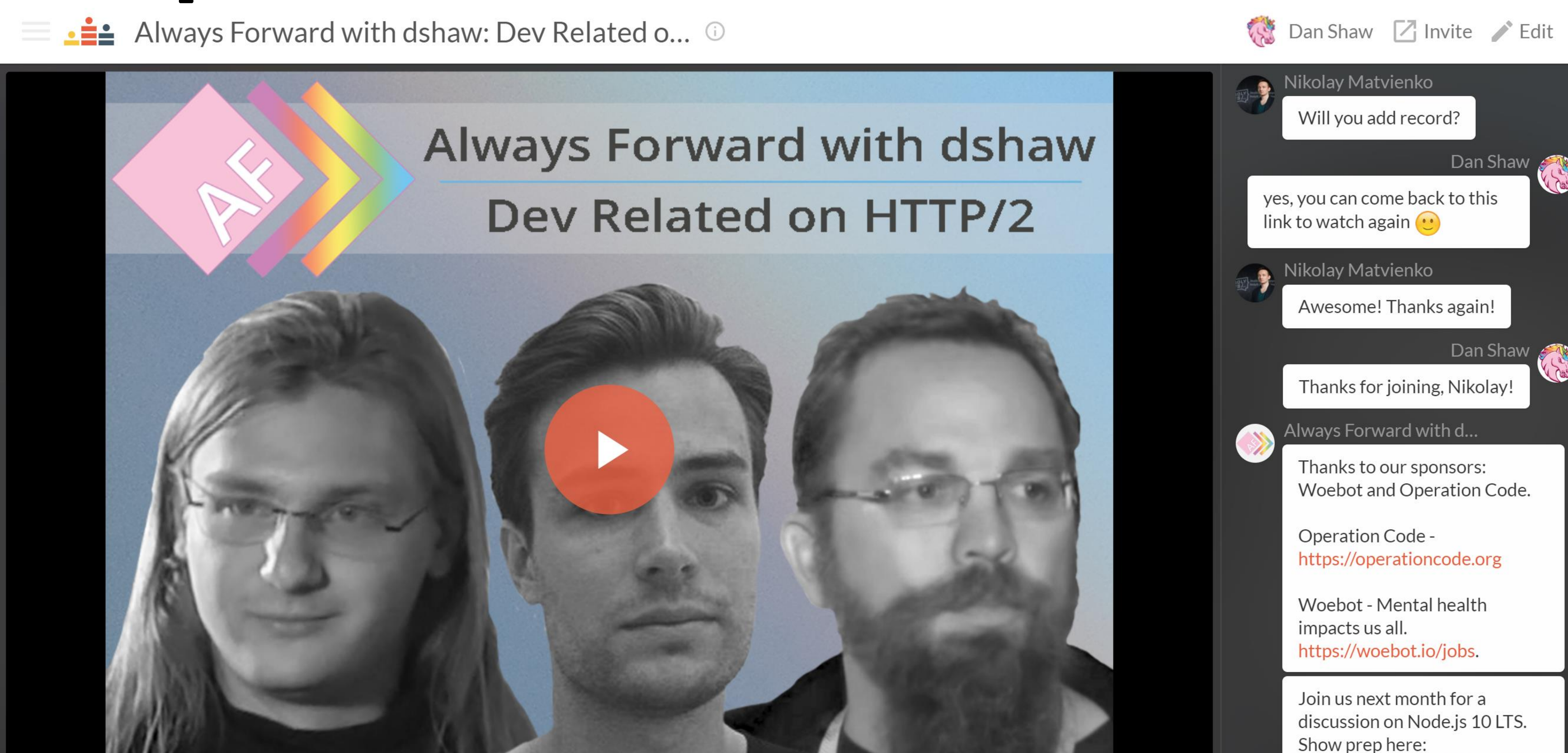
When using the synchronous form any exceptions are immediately thrown. You can use try/catch to handle exceptions or allow them to bubble up.

Here is an example of the asynchronous version:

```
const fs = require('fs');

fs.unlink('/tmp/hello', (err) => {
  if (err) throw err;
  console.log('successfully deleted /tmp/hello');
```

https://www.crowdcast.io/e/dshawaf8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Dan Shaw
Invite
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Dev Related on HTTP/2

Nikolay Matvienko

Will you add record?

Dan Shaw

yes, you can come back to this link to watch again 🙂

Nikolay Matvienko

Awesome! Thanks again!

Dan Shaw

Thanks for joining, Nikolay!

Always Forward with d...

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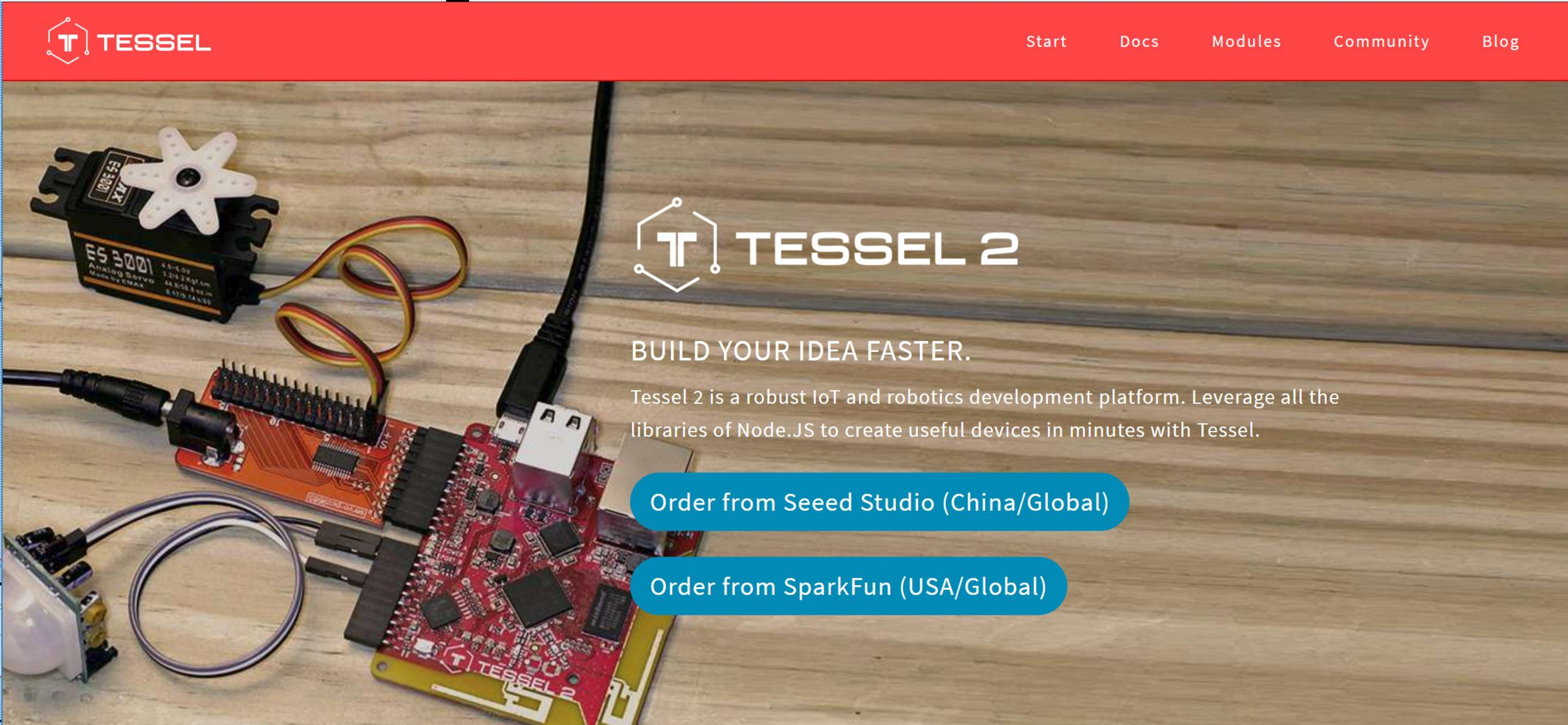
Operation Code - https://operationcode.org

Woebot - Mental health impacts us all. https://woebot.io/jobs.

Join us next month for a discussion on Node.js 10 LTS. Show prep here:

IOT FOR YOU AND ME

https://tessel.io/



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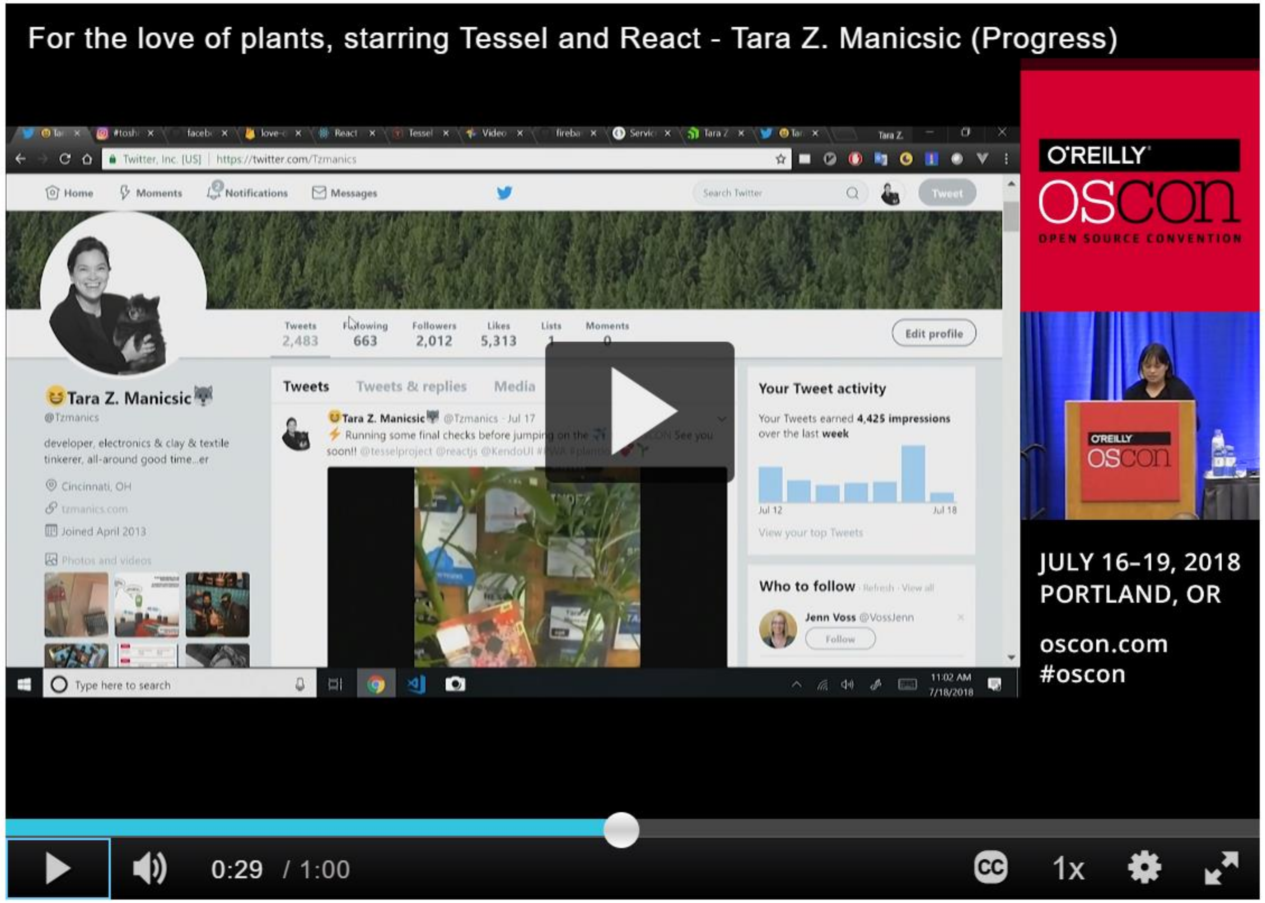
TESSEL 2

BUILD YOUR IDEA FASTER.

Tessel 2 is a robust IoT and robotics development platform. Leverage all the libraries of Node.JS to create useful devices in minutes with Tessel.

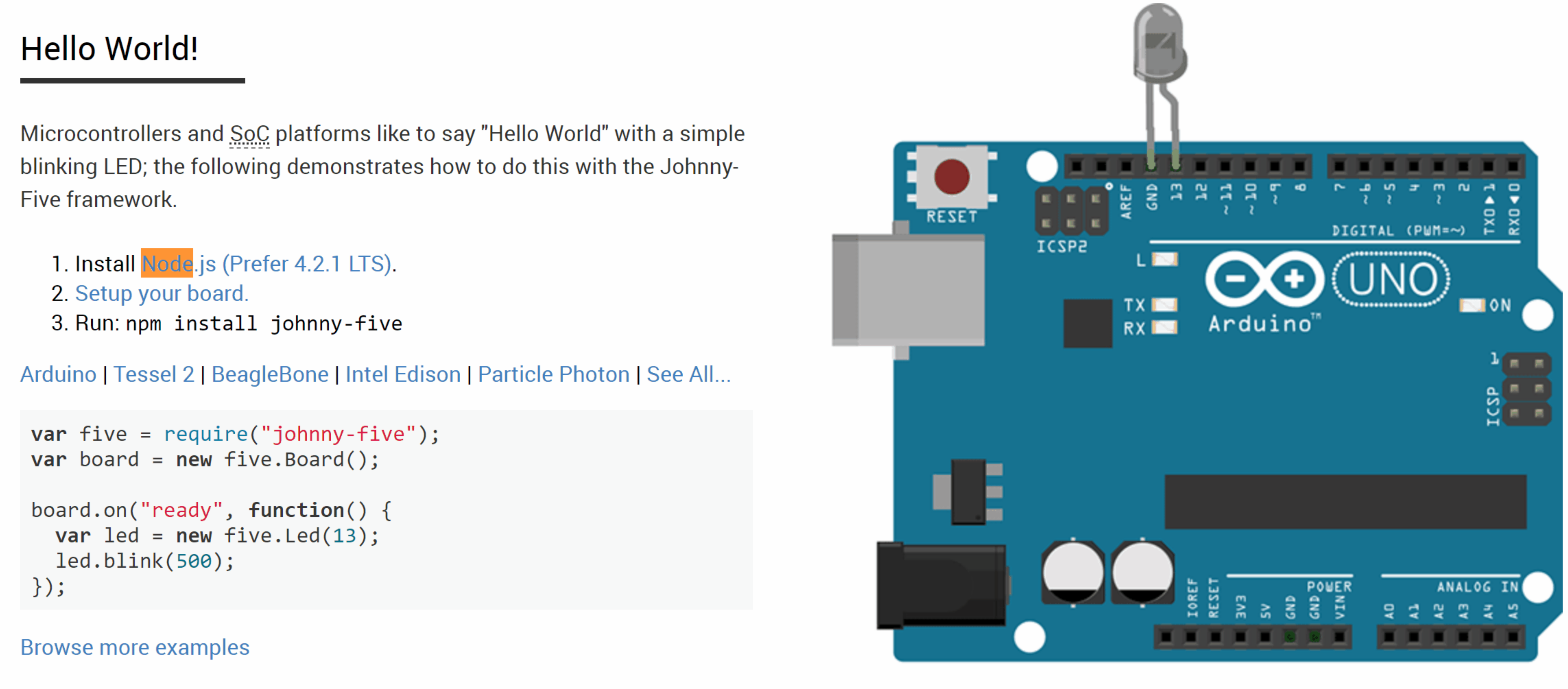
Order from Seeed Studio (China/Global)
Order from SparkFun (USA/Global)

OSCON 2018 - Portland, Oregon by O'Reilly Media, Inc.



For the love of plants, starring Tessel and React - Tara Z. Manicsic (Progress)

http://johnny-five.io



Hello World!

Microcontrollers and SoC platforms like to say "Hello World" with a simple blinking LED; the following demonstrates how to do this with the Johnny-Five framework.

1. Install Node.js (Prefer 4.2.1 LTS).
2. Setup your board.
3. Run: `npm install johnny-five`

Arduino | Tessel 2 | BeagleBone | Intel Edison | Particle Photon | See All...

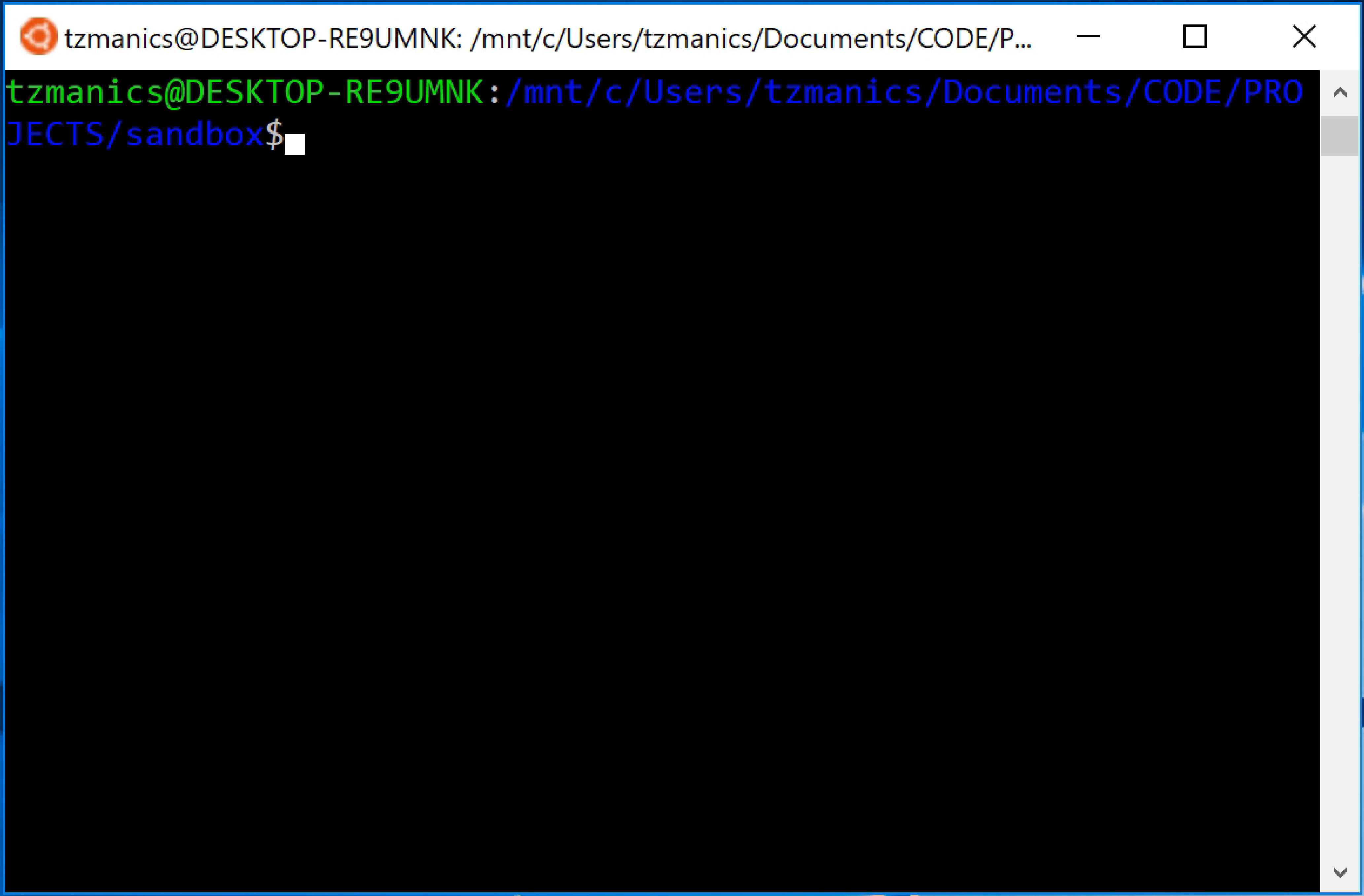
```
var five = require("johnny-five");
var board = new five.Board();

board.on("ready", function() {
  var led = new five.Led(13);
  led.blink(500);
});
```

Browse more examples

CODING
TIME

REALTIME
VUE N NODE
CHAT PWA



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```
tzmanics@DESKTOP-RE9UMNK:/mnt/c/Users/tzmanics/Documents/CODE/PRO
JECTS/sandbox$
```

https://bit.ly/2z4xDbD

https://github.com/tzmanics/tosh-my-gosh/

THANK YOU?

OH YOU'RE WELCOME!

SLIDES @TZMANICS