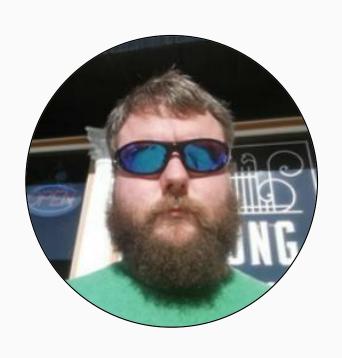
# INTRODUCTION TO TYPESCRIPT

What is it?

Why should I care?

How do I use it?

# WHO IS THIS GUY?



Craig Burton
Software Engineer
PlatformQ

I make web stuff.

### WHAT IS TYPESCRIPT?

#### A superset of JavaScript

- It **is** JS with extras
- Compiles to JS ES2015, ES5, even ES3 (if you really must...)
- Compiled code is basically the code you wrote

#### Includes tomorrow's JS features today

• ES2015 and up - classes, let/const, arrow functions, spread operator, etc.

# WHAT IS TYPESCRIPT?

#### Adds static typing- A Good Thing TM

• Anything you can do, I can do better safer

```
// JavaScript
function findOne(data, config) {
    // What is data? What is config? BOB! How many
    // times have I told you to document your code?!
    /* ... */
}
```

// TypeScript
function findOne(data: Person[], config: SearchConfig): Person {
 // We know what data and config are, super helpful!
 // This can be even cooler. Just wait till the live demo!
 /\* ... \*/
}

### WHY SHOULD I CARE?

JavaScript was never designed for large apps.

Documentation takes time. (both writing and reading)

Developers are \*lazy...except for me. I'm a go-getter!

The available tooling is amazing.

\*Really, we're just very busy.

## HOW DO I USE IT?

#### Install typescript:

\$ npm install typescript

#### You write JavaScript.

function foo(a) { /\* do stuff \*/ }

## HOW DO I USE IT?

And then you add type annotations.

```
function foo(a: string) { /* do stuff */ }
```

Win.

# LIVE DEMO!

### CONCLUSION

TypeScript is a really powerful extension of JavaScript.

It can be used anywhere JS can be, because it compiles to JS.

It adds a huge degree of maintainability to large apps.

It speeds up development.

### THANK YOU



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- @theguywhocodes
- theonewho.codes
- craigadamburton
- **2** Zenith-One

#### Useful Links

- Slides bit.ly/the-slide-decks
- TypeScript Playground typescriptlang.org/play
- Intro Video by Anders Hejlsberg bit.ly/intro-to-typescript-video