A Brief Intro to TypeScript

Qianyi Wu

The reason why TypeScript exists

Dynamic Typing System in plain JavaScript

```
> var foo = null
> foo.prop
TypeError: Cannot read property 'prop' of null
```

Thing also could work silently, you get undefined value

```
> var bar = {}
> bar.prop
undefined
```

- Type coercing > '3' * '4'
- Limited Tool Support

What TypeScript Offers

- Static Type Check
- Tool support, most IDEs, especially Visual Studio Code
- OOP elements
- Support ES3 or later

Why and Why not

Why?

- More Productivity
- More Reliable Software
- Easier to Debug
- Probably less code
- Easy to go back to Vanilla JS

Why not?

- Not very popular
- Because it is from Microsoft
- Not very popular
- Not very popular

Summarize

- Static Typing
- Tool support
- OOP elements

More Info

Official Website https://www.typescriptlang.org/

DefintelyTyped http://definitelytyped.org/

Latest Features

https://github.com/Microsoft/TypeScript/wiki/What's-new-in-TypeScript