



TS

The ~~Bad~~ Cop
Good

Who am I?



Cassian Lup

January 12 at 5:54pm ·  ▼

Poliția ia infractorii acasa la ei.
Ca să se joace împreună.

[#L](#) [#WorldPeace](#)

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Who am I?



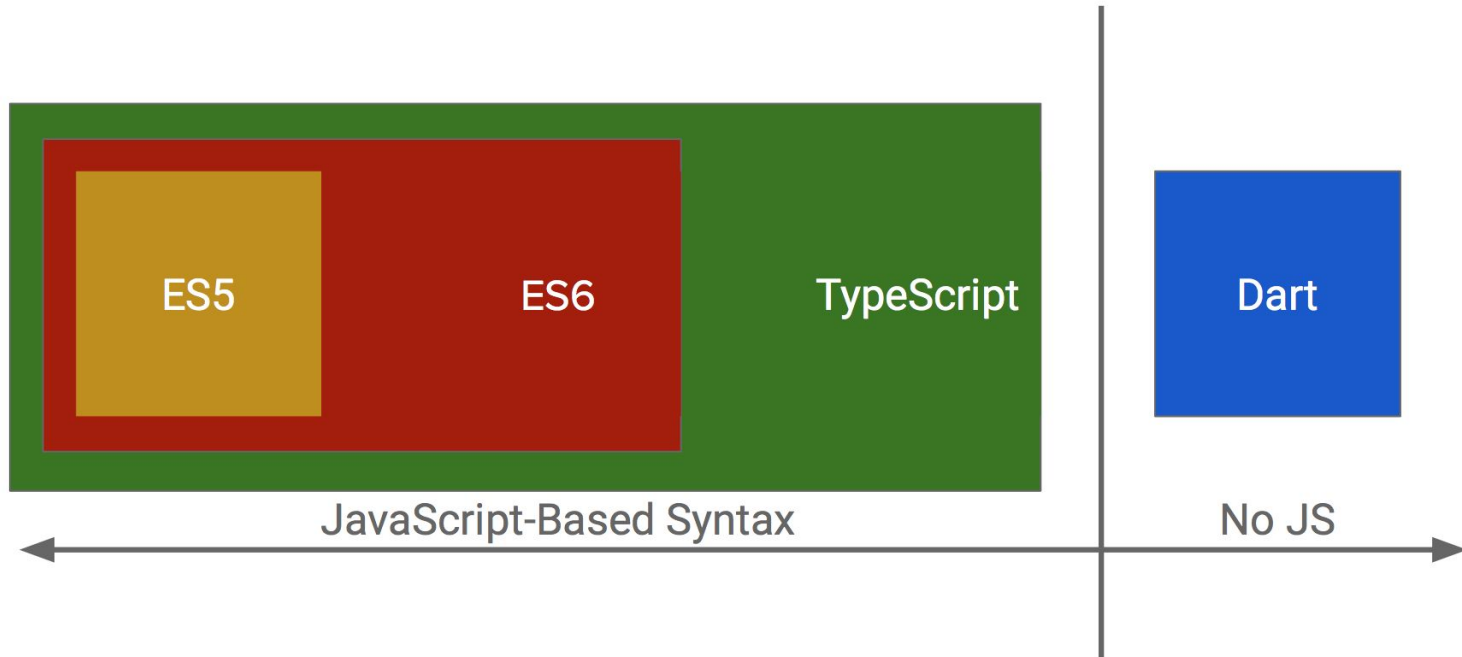
1. What

2. How

What is ~~this sorcery~~ TypeScript?

Language for application scale JS development. (*aka*, **Superset** of JS)

What is TypeScript?



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Types

Classes

Modules

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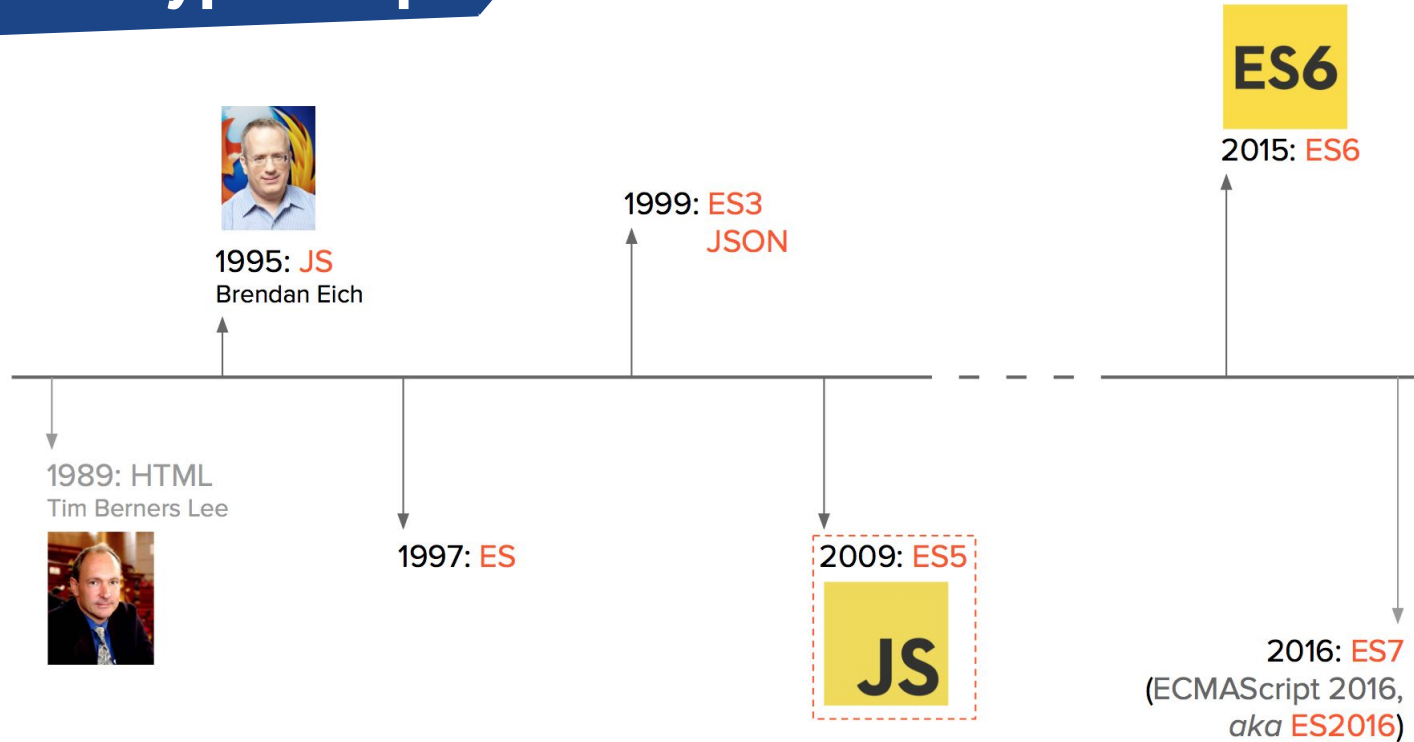
What *is* TypeScript?

Superset of JS

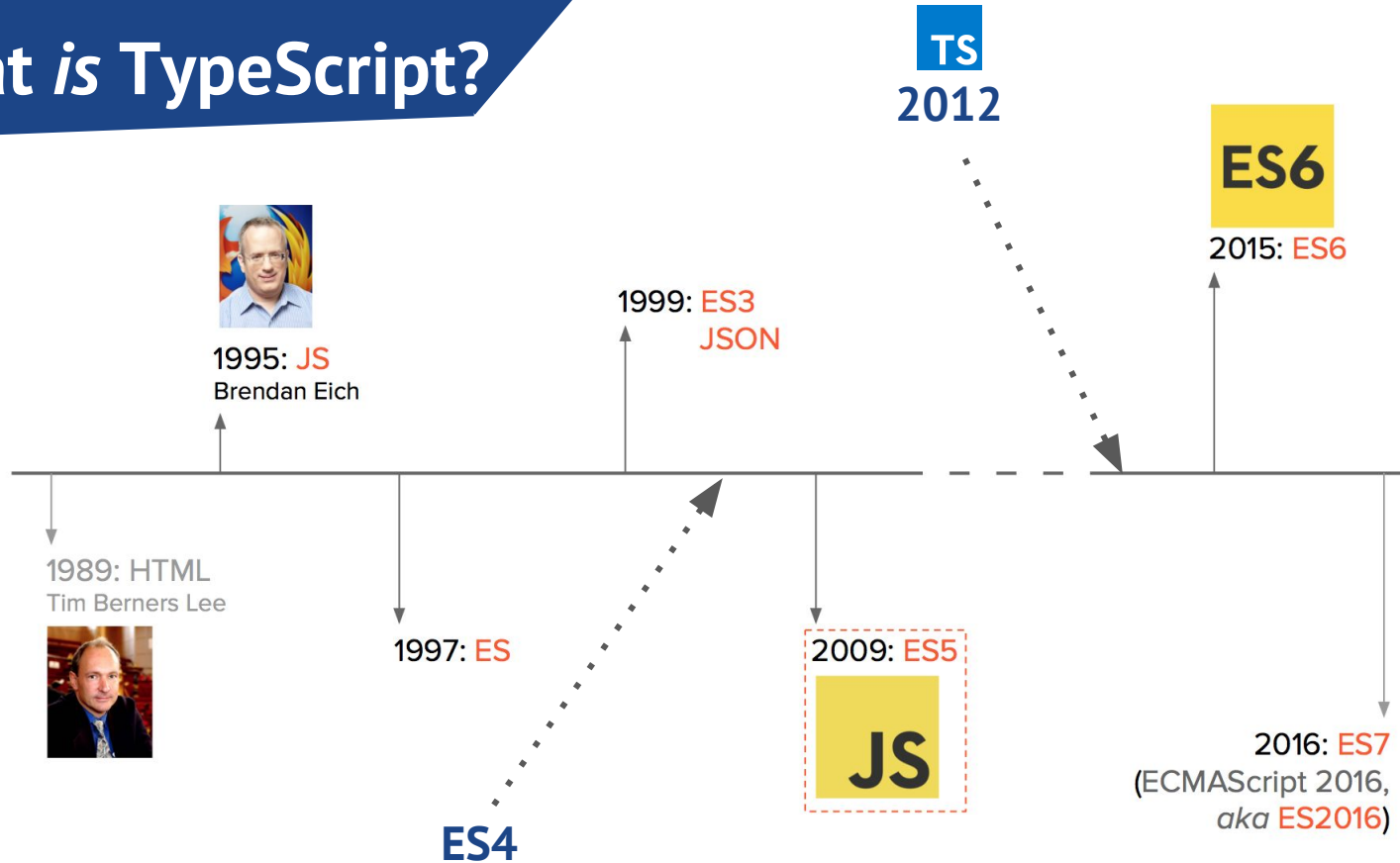
Types: the missing spice

- ES4, AS3

What is TypeScript?



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What *is* TypeScript?

<http://www-archive.mozilla.org/js/language/old-es4/libraries/types.html>

What is TypeScript?

Superset of JS

Types: the missing spice™

- ES4, AS3

Transpiler (tsc), NPM Package

Installing

For the latest stable version:

```
npm install -g typescript
```

* Shout out to Yarn. We <3 you!

What is TypeScript?

Superset of JS

Types: the missing spice™

- ES4, AS3

Transpiler (tsc), NPM Package

Primitive types, interfaces

- Static analysis, Refactoring, Autocomplete

Primitive Types

`: number`

`: string`

`: boolean`

`: Object` `: <Interface>`

`: Function` `: () => {}`

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`: any`

Primitive Types

If “*everything is an object,*”
everything is an **:any**.

What is TypeScript?

- Why good/bad cop?
- It guards.
- It warns.
- It fines. (Or it doesn't.)
You configure it. (tsconfig.json)
- It speeds you up.

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You configure it. (tsconfig.json)
- It speeds you up.
- It validates your code against definition files.
- All JS code is valid TS code.
- Future is now. (Future versions can be used now etc.)
- Can be adopted progressively.

Demo Time

<https://github.com/cassilup/ts-the-good-cop>

1. What

2. How

Why use TypeScript? 👍

- Documentation (Move things from your memory into actual code.)
- Static code analysis, ~~Autocomplete~~
- Immediate error-spotting
- Safety-net
- It only affects development.

Why use TypeScript? 👍

- Documentation (Move things from your memory into actual code.)
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- It only affects development.
- Angular 2 (or, you know, 4)
- React
- Swagger
- Good transpiler (**tsc**)
- Big/distributed project/team

Why not use TypeScript? 👎

- Culture clash (JS loosely typed by nature)
- May cause overhead (maintaining `.d.ts`)
- 3rd Party Lib Definitions (The **real** problem with TypeScript)
- React props can be a pain.
- Configuration (Webpack)
- Sometimes feels like a blocker instead of an enabler.

What's it like IRL



What's it like IRL

- 2 types of devs (backend vs. frontend)
- IDE vs. Code Editor. (Atom / VSCode / IntelliJ / <your preferred choice>)
(Lesson: “Never learn the shortcuts, always **master the raw** and then use the shortcuts.”)
- Starting from scratch is nice. TSX is lovely.
- Migrating (ng1) is a pain. The tale of 1k failing unit tests.
- Going *all-in* means CSS Modules. (*Typed* CSS Modules, that is.)

What's it like IRL (continued)

- Support/community is ok(ish)
- Careful with Versions 1 vs 2. (typings.json vs @types)
- **allowImplicitAny**, aka how to drive your UI team mad.

Conclusion

It's a language. But one that just helps JS.

Don't let it scare you and don't let it get in your way.

You control the degree to which you want it to interfere.

You might need it or you might not. Think before you choose.

If you're happy ~~and you know it~~ without types, *there's no need to switch.*

Questions?

Thank you!

p.s. Keep in touch.



Reference

- <https://www.typescriptlang.org/>
- <https://www.wikiwand.com/en/ECMAScript>
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