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ATOMIST

TypeScript
for
Enterprise

Developers

QCon SF 2018

Introduction

What is TypeScript?

JavaScript + Types \rightarrow tsc \rightarrow JavaScript + Type Errors + Type Dets

my background : Java Scala Clojure

this talk : TypeScript + Node.js

WE WILL SEE

5 wonderful features of TypeScript

5 pitfalls of TS, Node, & npm.

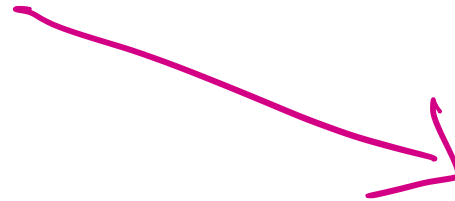
Runtime
Land

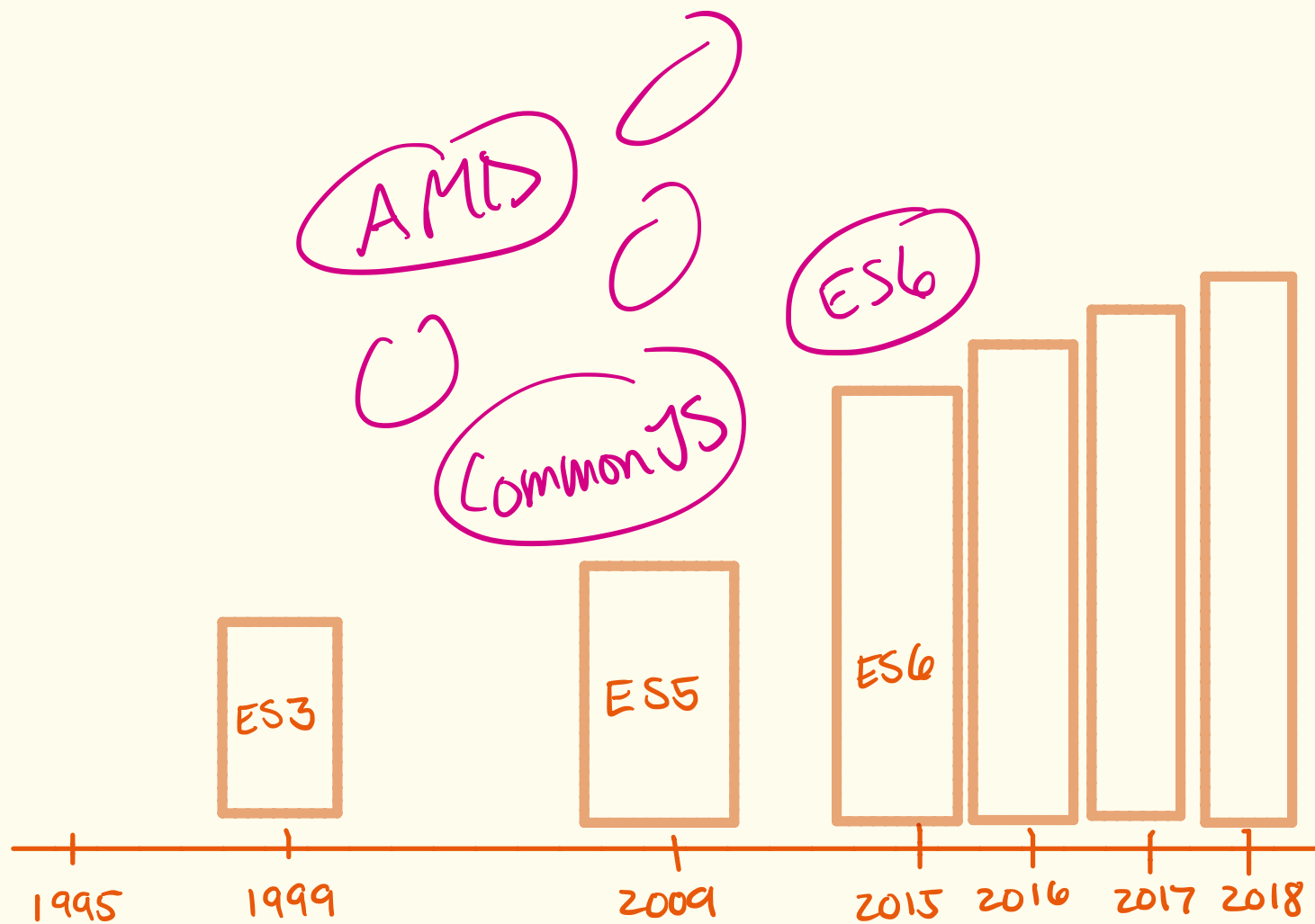
Type
Land

.ts

.js

.d.ts





+++
~~ES2015~~

~~T~~ JavaScript
src

LSC

tslint

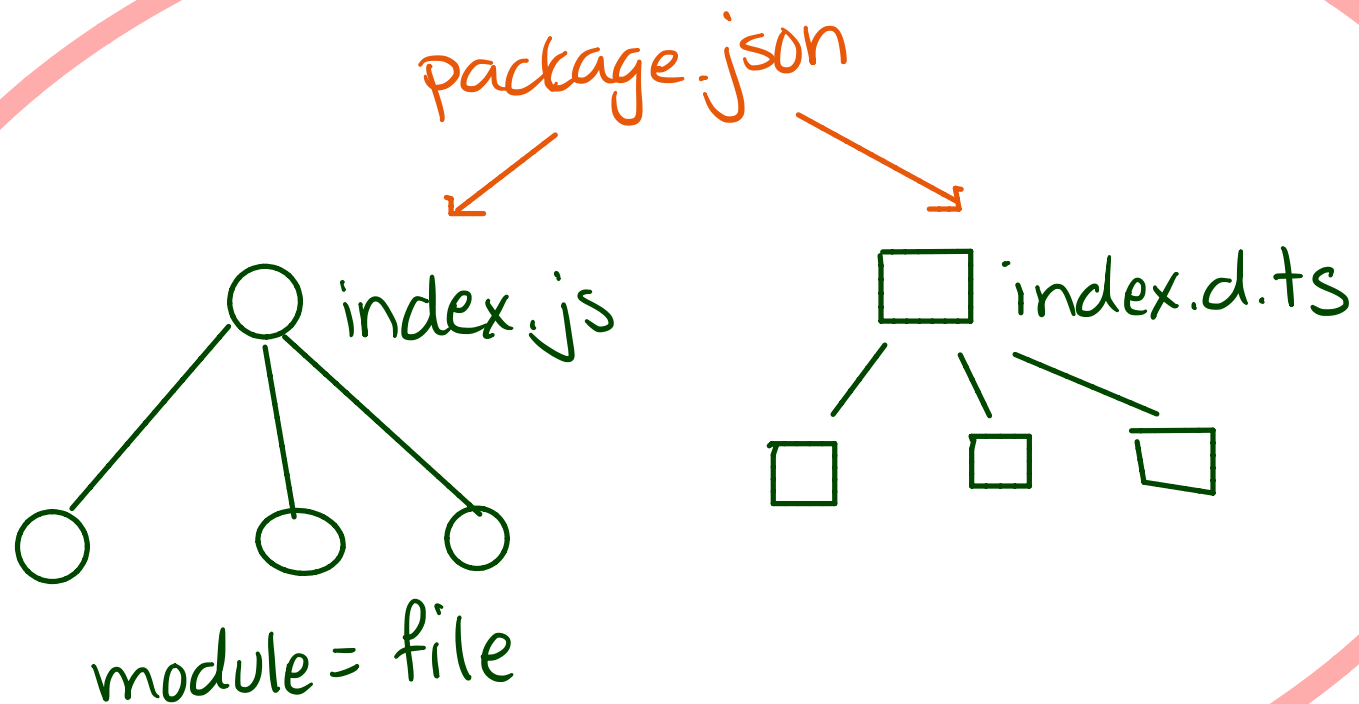
ESX

JavaScript
target

npm → packages

runtime
node
? ~~browsers~~?

npm Package





5 wonderful features of TypeScript

- #1 Gradual typing
- #2 Literal types
- #3 Union types
- #4 Type narrowing
- #5 > Best of JS → your choice of JS

5 pitfalls of TS, Node, & npm.

- #1 Runtime targets
- #2 libs
- #3 module systems
- #4 import syntax
- #5 package loading

Conclusion

compared to JavaScript,

TypeScript is strictly better.

replace part of your build chain

declare types when they are useful to you.

compared to Java or C#,

TypeScript offers:

flexible typing

access to JS/Node ecosystem

closer brain space to front end

but costs:

learning the JS/Node ecosystem

the Java tooling you're spoiled by