

Supercharge Angular 2 with TypeScript

Bowden Kelly + Daniel Rosenwasser
TypeScript Team

Objectives

Why TypeScript?

What is TypeScript?

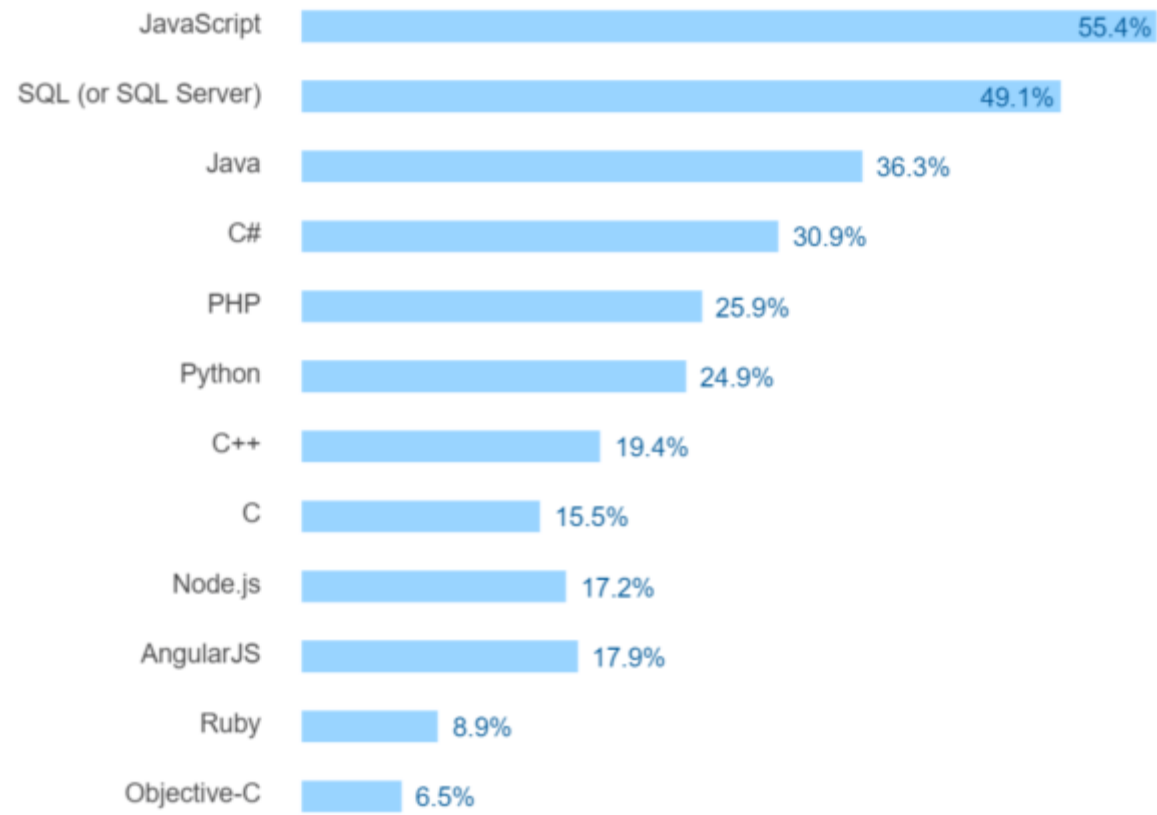
TypeScript + Angular2

Why TypeScript?

JavaScript **Rocks**

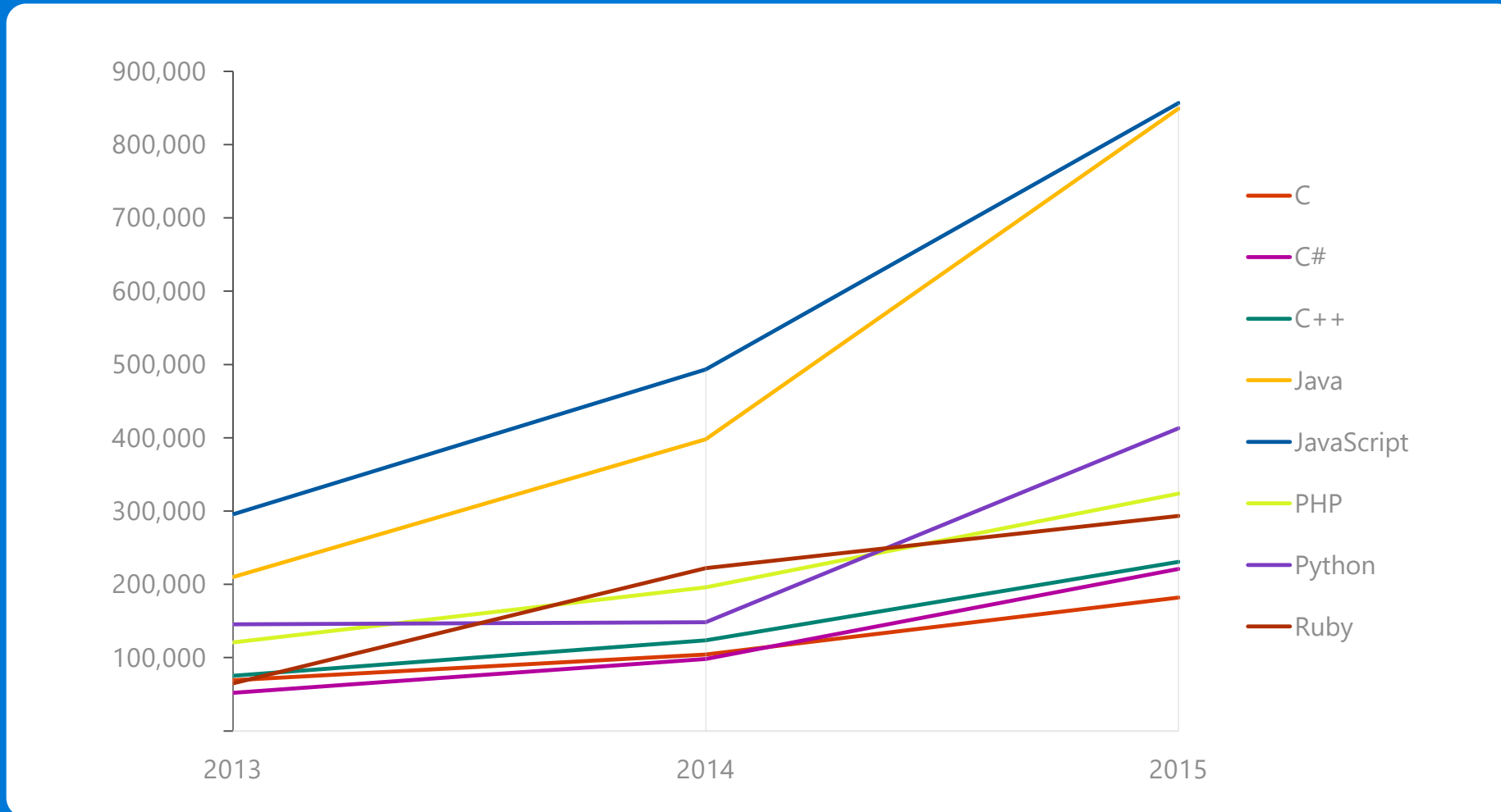
JavaScript Is Everywhere

Most Popular Technologies



Source: StackOverflow Developer Survey

JavaScript Devs Dominate Open Source



Source: GitHub

Developers should be able to
focus on **creating** amazing things

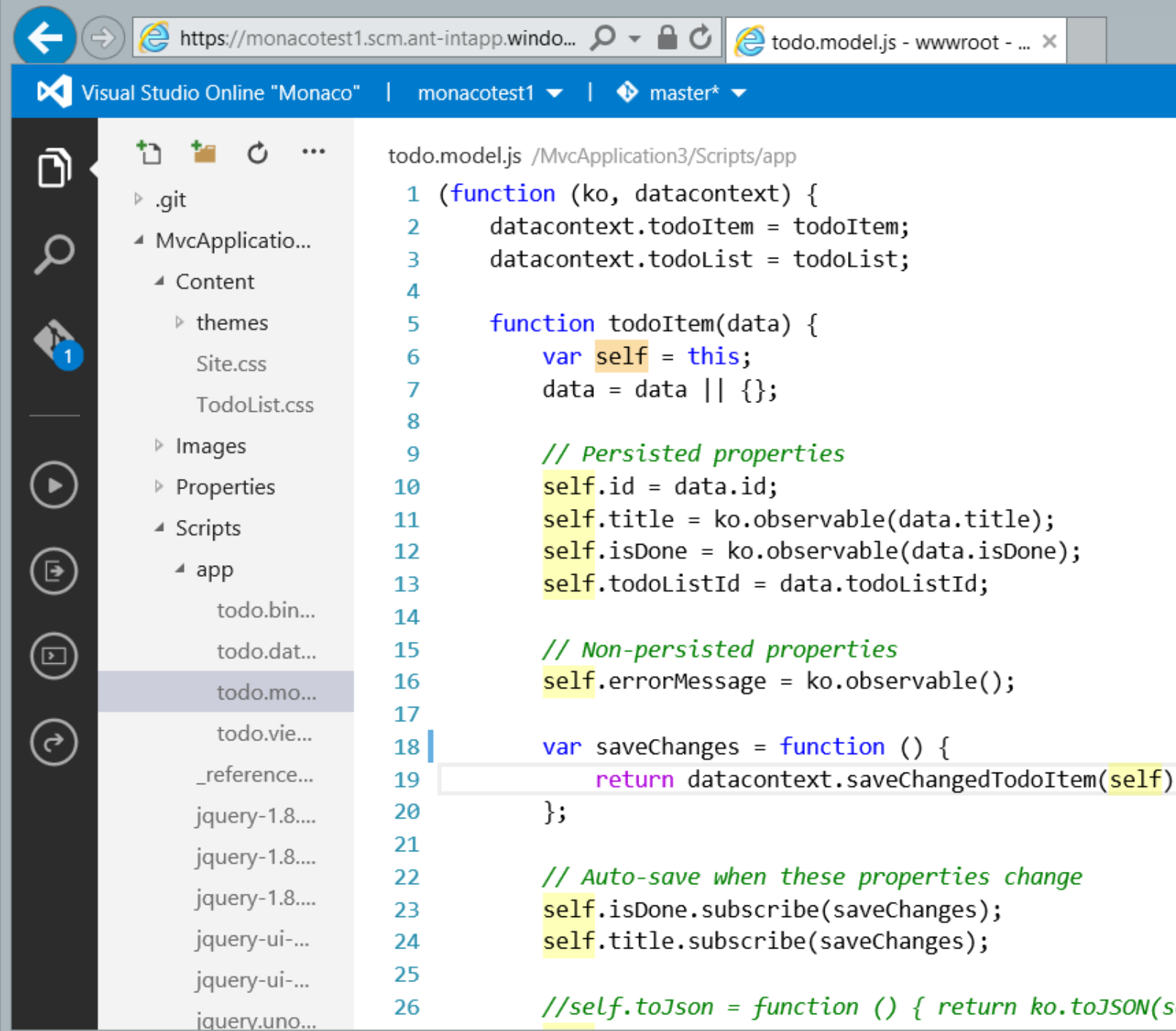
How Developers Spend Time

Understand Code	Maintain Existing Code	Write New Code
<ul style="list-style-type: none">- Read source code- Trace flow of execution- Read library documentation- Find bugs	<ul style="list-style-type: none">- Prepare for new features- Fix bugs- Refactor code	<ul style="list-style-type: none">- New functions/classes- New files or modules

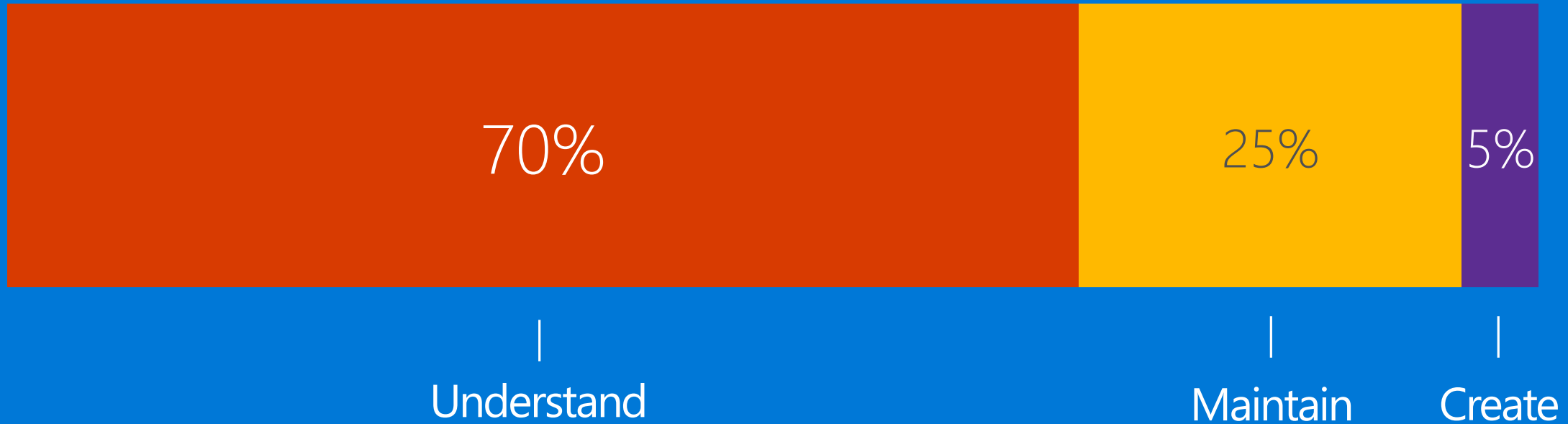
How Developers Spend Time



Monaco



What If?



What If?



Hello TypeScript!

A typed superset of JavaScript that compiles to plain JavaScript

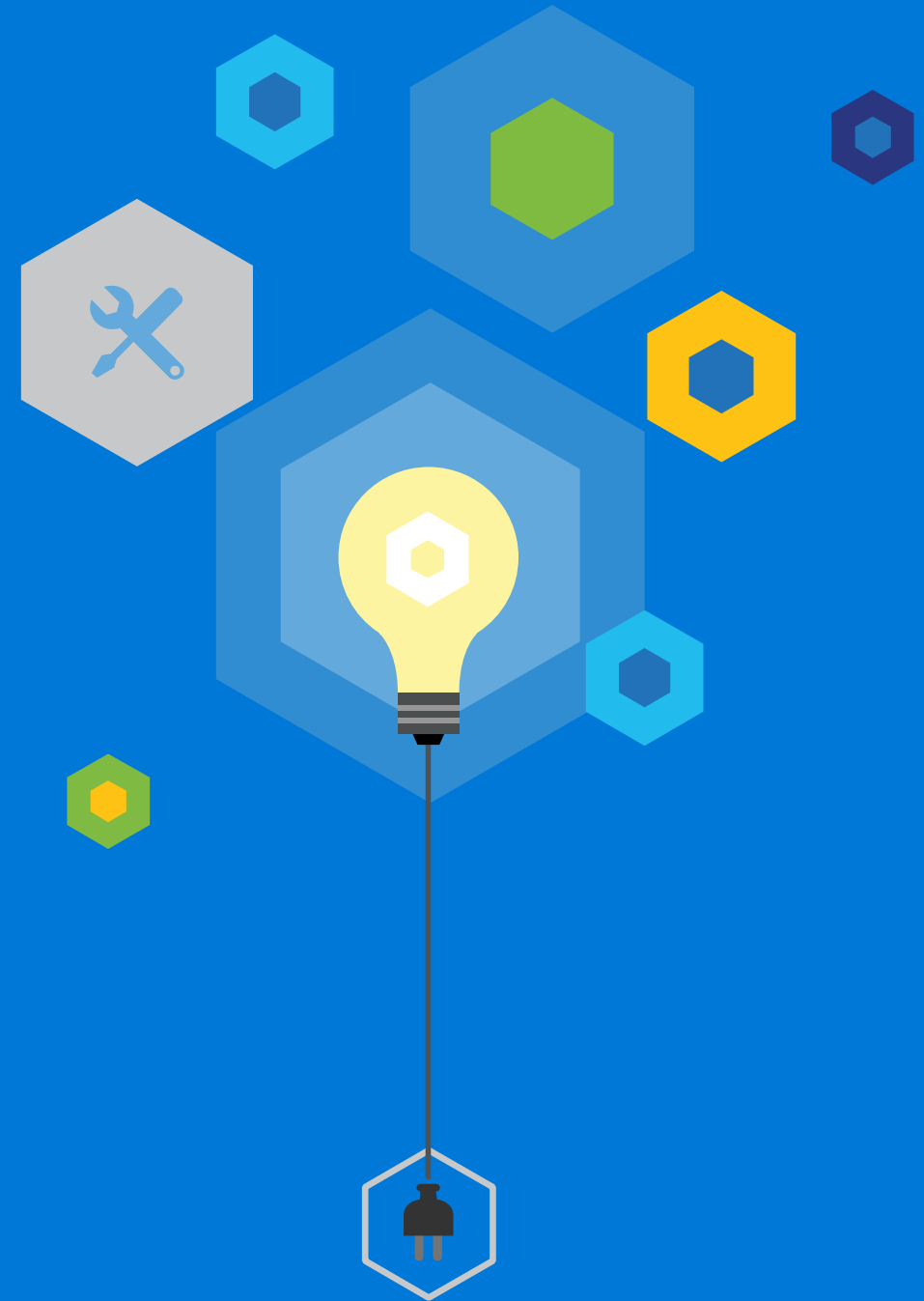
Demo Recap

You can benefit from TypeScript today

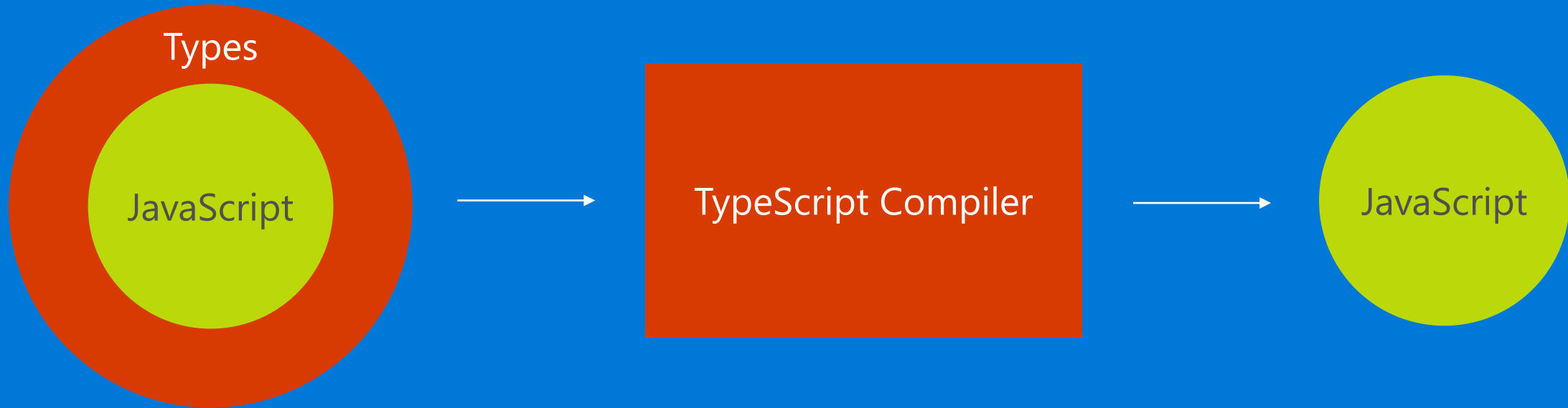
Errors don't block JS output

Opt-in types strengthen type system

Improved navigation and compile time error catching

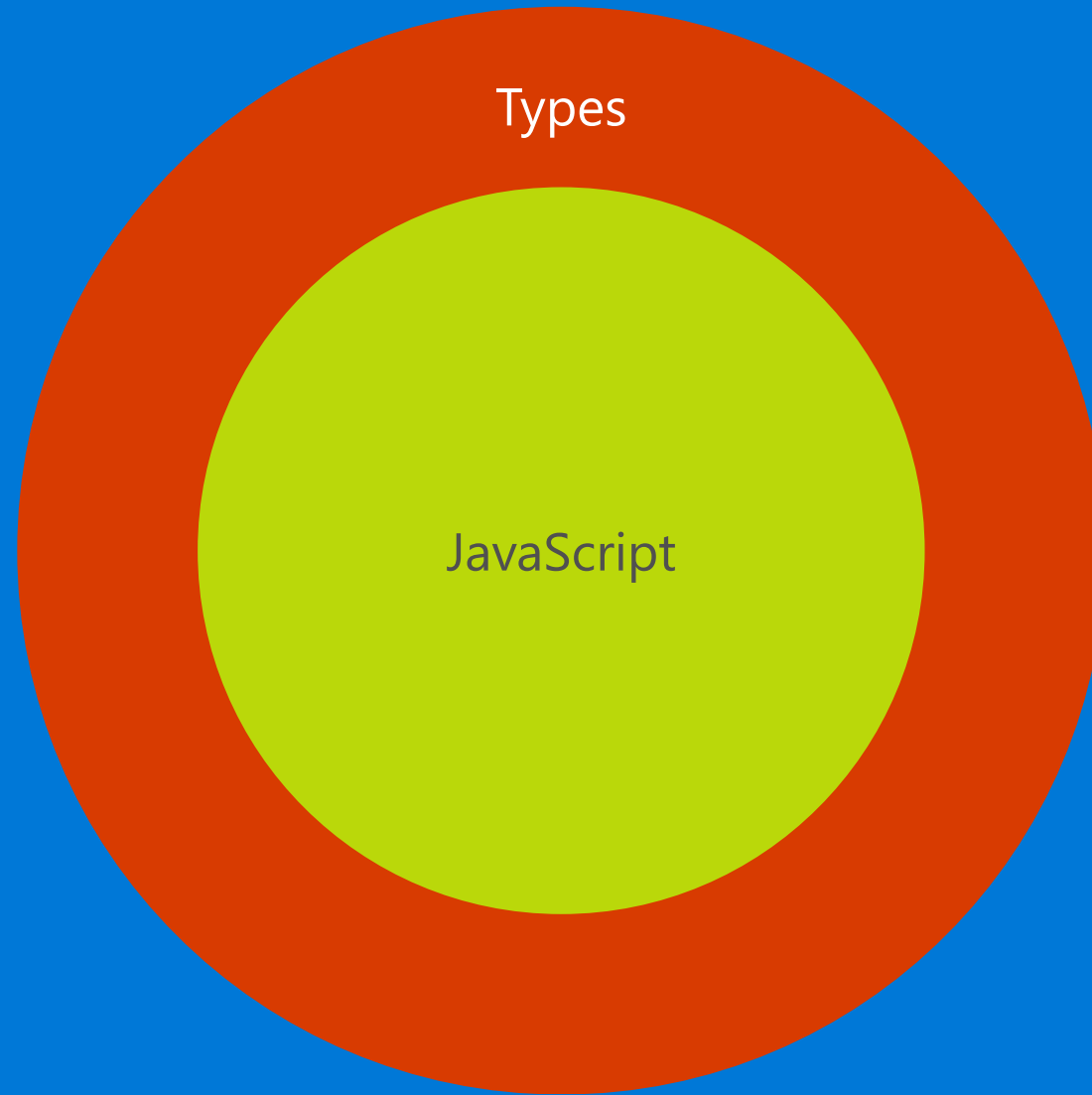


The TypeScript Language

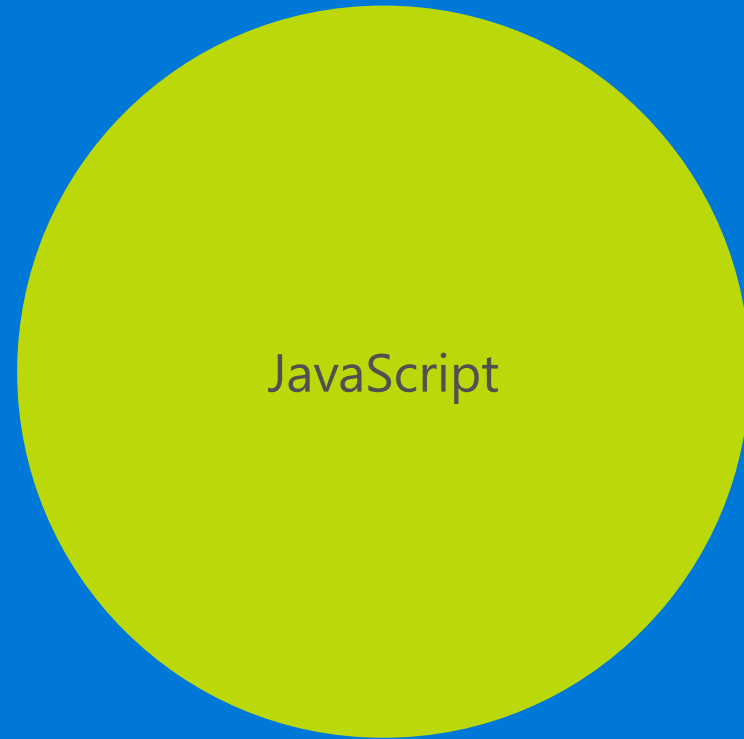


JavaScript **IS** TypeScript

JavaScript IS TypeScript



JavaScript IS TypeScript

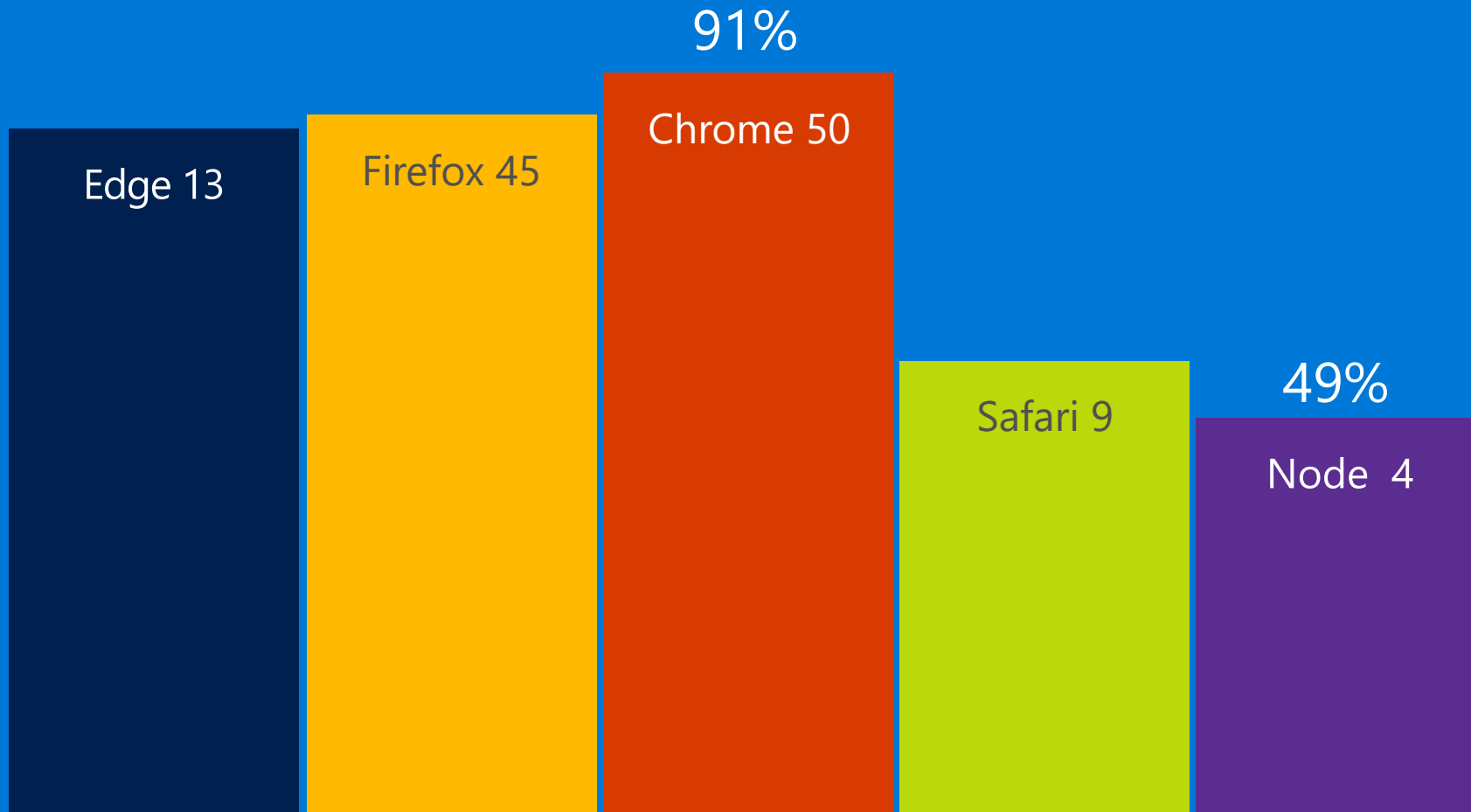


JavaScript IS TypeScript



ES Support Today

ES6 Engine Support



(<http://kangax.github.io/compat-table/es6/>)

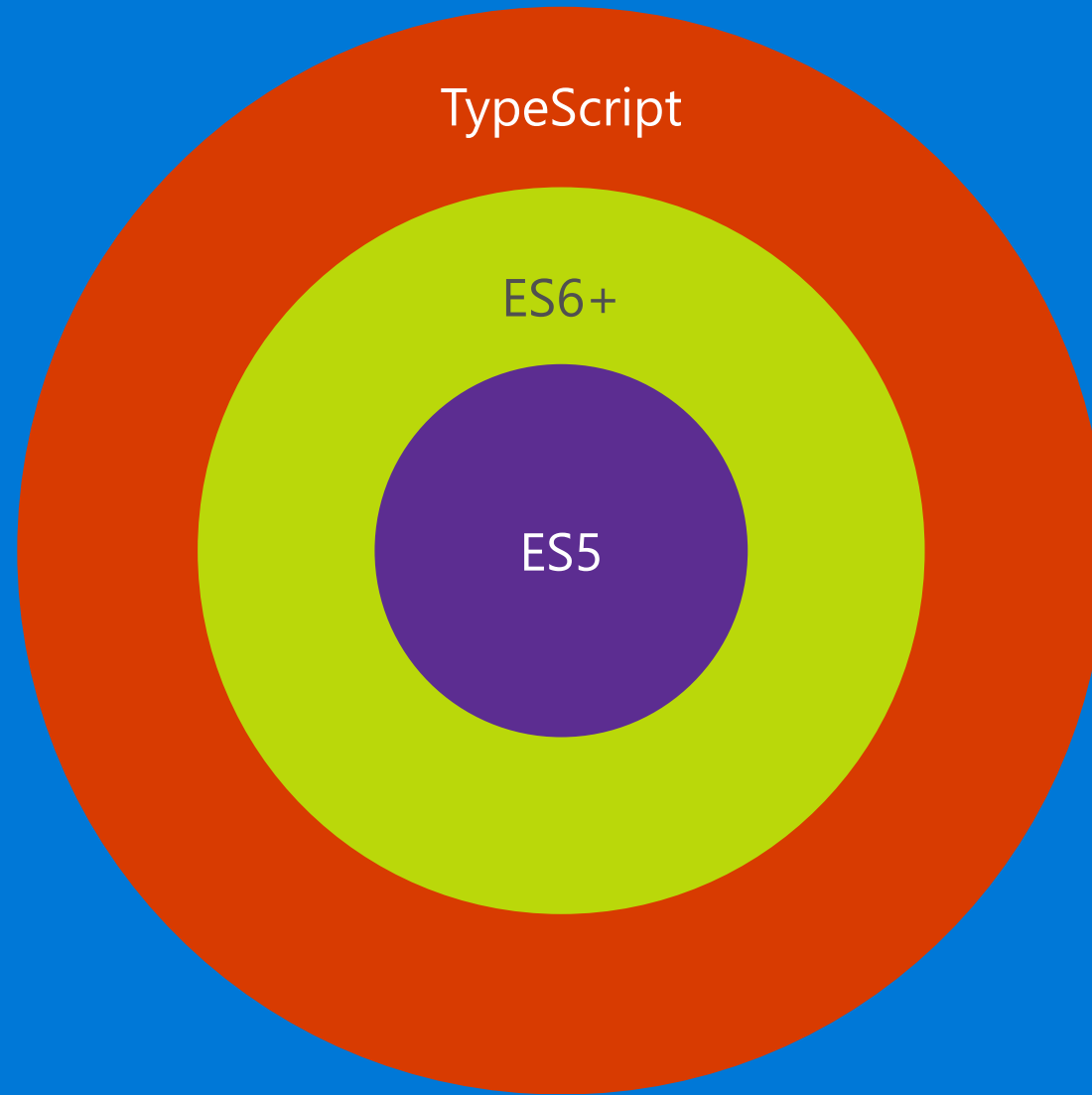
JavaScript IS TypeScript



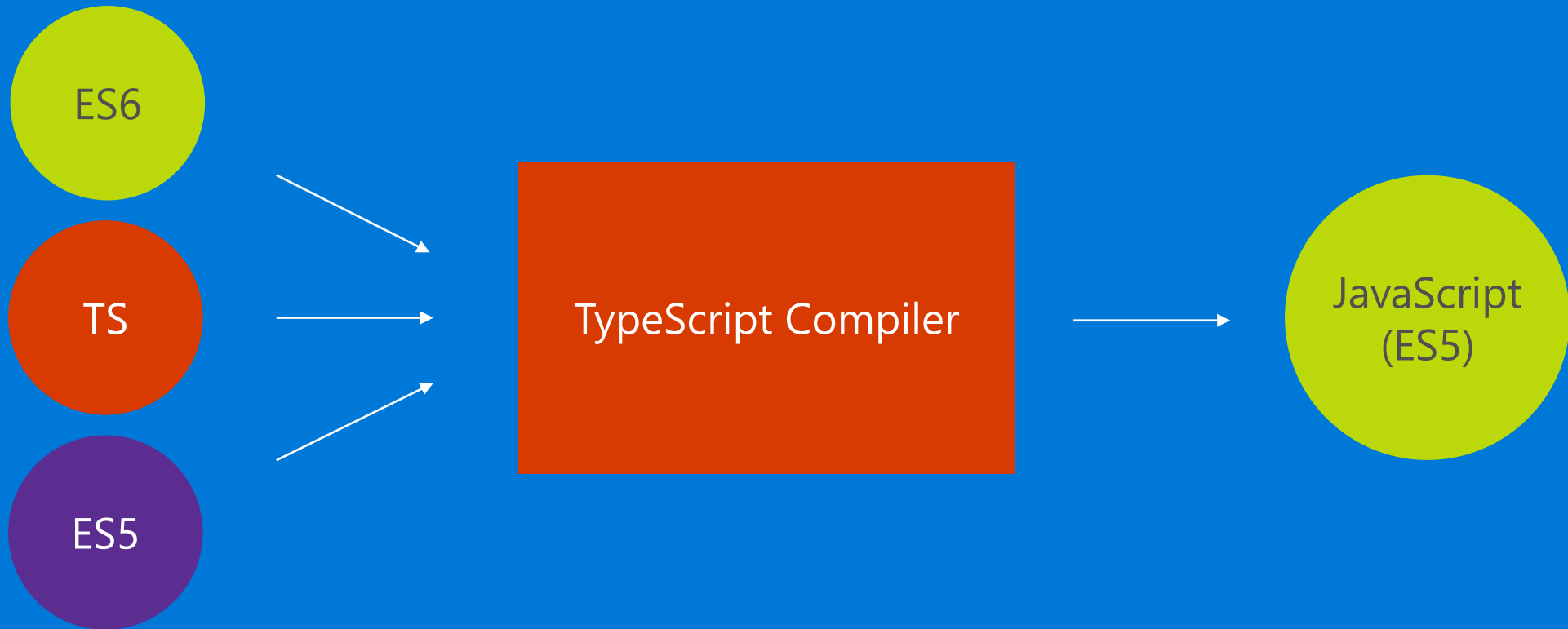
JavaScript IS TypeScript



JavaScript IS TypeScript



Downlevel Compilation



In Review

ES6+ is bringing amazing features to JavaScript

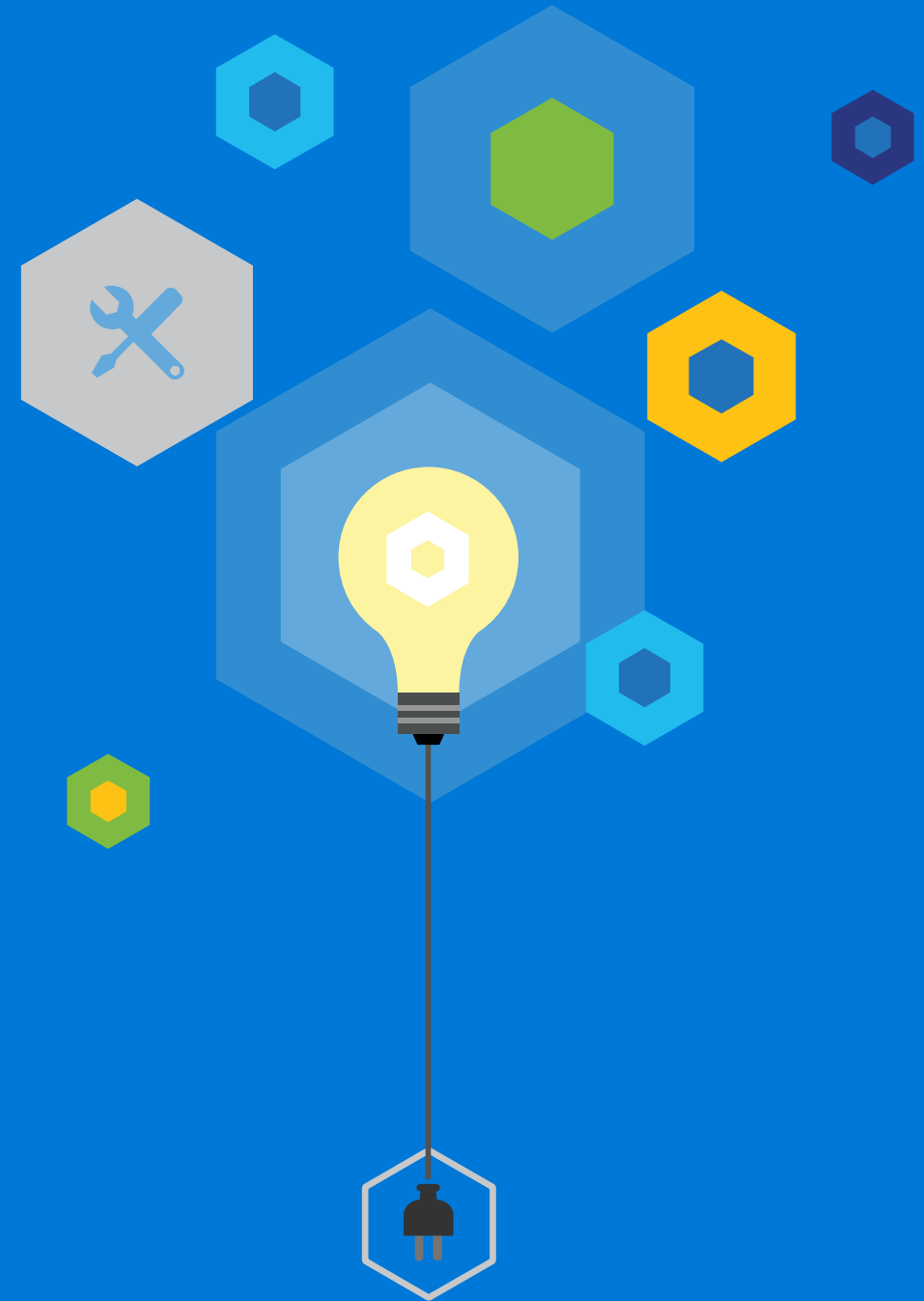
Don't need to worry about engine support

Will always be on the top of the curve

The Type System

Demo

Angular2 and TypeScript



In Review

You can benefit from TypeScript today

The type system is opt-in

TypeScript allows you to use the latest features of ES+

The type system becomes stronger with every release

TypeScript + Angular2 = <3

TypeScript has great support in every editor

TypeScript lets you focus on **creation**

Join The Community!

GitHub – github.com/microsoft/typescript

Twitter

- @TypeScriptLang
- @bowdenk7

Gitter – gitter.im/microsoft/typescript

Questions?

