# A OPENWEST



**TypeScript** 



#### TypeScript and AngularJS

Tony Curtis
Joe Skeen





#### Bios

#### **Tony Curtis**

Consultant Software Engineer / Supervisor at Intermountain Healthcare

Passionate about unit testing, code craft, euro-games, writing, Sci-Fi, music, Monty Python's Flying Circus.

#### Joe Skeen

Passionate developer and evangelist Experience in TypeScript, JavaScript, C#, Java, PHP, Object Pascal, and dabbled in some others









#### What is TypeScript?

A superset of JavaScript that compiles down to plain JavaScript.

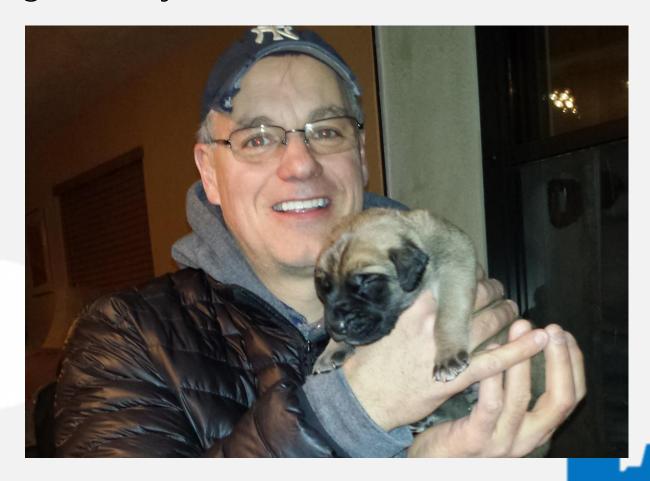
TypeScript adds optional static typing and features from the future (ES6+).





## Why TypeScript? Managing Large JS Projects is Hard

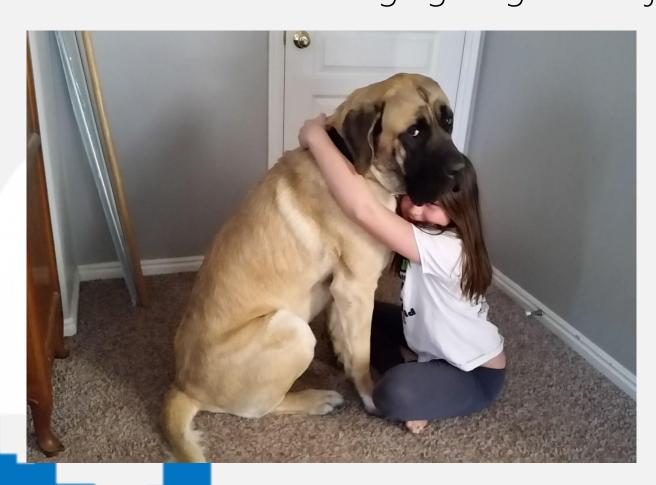
Sometimes
JS projects
start small...







### Why TypeScript? Managing Large JS Projects is Hard



... but grow larger than you expect!

TypeScript



### Why TypeScript? Low Barrier to Entry

#### JavaScript TypeScript





### Why TypeScript? Use Future JS Features Today

Compiles ECMAScript 6 code to ECMAScript 3 or 5 code using CommonJS or AMD modules

- Modules
- Classes
- Arrow functions
- Default parameters
- Destructuring
- Spread and rest
- Let and const
- for...of

- Object literal methods
- Shorthand properties
- Computed properties
- Octal / binary literals
- Symbols
- Template strings





### Why TypeScript? Static Types → Better Tooling

- Intelligent autocompletion
- Refactoring Support
  - Renaming
- Code analysis
  - Navigation
  - Find All References

**Example on Playground** 

**TypeScript** 



#### Why TypeScript?

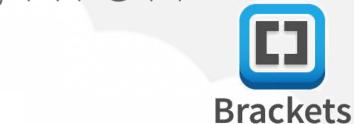
Great Tooling Support

























## Why TypeScript? Industry Use













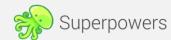


















# Why TypeScript? Industry Use

AtScript is TypeScript









# Why TypeScript? Industry Use



TypeScript



http://channel9.msdn.com/Events/Build/2015/3-644

# Why TypeScript? Open Source

GitHub Explor	re Features	Enterprise Blog	Sign up Sign in
Search		lypescript	Search
Repositories	2,738	We've found 2,738 repository results	Sort: <b>Best match ▼</b>
<> Code	202,626		
① Issues	8,525	Microsoft/TypeScript	TypeScript ★ 4,865 \$ 499
မှဳ Users	10	TypeScript is a superset of JavaScript that compiles to clean JavaScript output.  Updated 32 minutes ago	
Languages			
JavaScript	1,229		
TypeScript	801	cloud9ide/ <mark>typescript</mark>	JavaScript ★ 26 🖇 27
C#	96	The clone of the CodePlex repo to import it into Cloud9. That's it :)	
CSS	45	Updated on Dec 10, 2014	
CoffeeScript	30		
Java	18	and the state of t	
Python	14	seanhess/angularjs-typescript	TypeScript ★ 131 \$\mathcal{P}\$ 30
PHP Ruby	13 10	AngularJS + Typescript presentation and example	
Shell	9	Updated 10 days ago	
Advanced search Cheat	sheet	raph-amiard/sublime-typescript	TypeScript ★ 127 33
		A sublime plugin for the typescript language - WIP	
		Updated on Sep 3, 2013	





## Why TypeScript? Open Source

Definitely Typed: over 1000 community-contributed declaration files describing the API of popular JS libraries









Sencha Ext JS







#### DEMO





#### How to Get Started with TypeScript

http://www.TypeScriptLang.org
npm install -g typescript
http://definitelytyped.org/



#### QUESTIONS



