

TypeScript

Type Acquisition

Static Data Typing

Why Do We Care?

Demo 1

Static Data Typing

Type Acquisition

What Is It?

Why Do We Need It?

Type Declaration Files

Five Examples

Example 1

Global Environment

Example 2

Global Scripts

Example 3

CommonJS Modules

Example 4

ES6 Modules

Example 5

TypeScript Packages

Type Declaration Sources

DefinitelyTyped

<https://github.com/DefinitelyTyped/DefinitelyTyped>

Others

GitHub, NPM, Bower... and more!

Type Acquisition History

Manual

Manual

Pros/Cons

TSD

```
# install the jquery definition file  
# and save to tsd.json  
$ tsd install jquery --save
```

```
# search for angularjs definitions  
$ tsd query angularjs
```

```
# install all definitions from tsd.json  
$ tsd install
```

TSD

Pros/Cons

Typings

What is It?

Typings

Pros/Cons

Demo 2

Typings and Global Type Definitions

Demo 3

Typings and Module Scoped Type Definitions

Advanced Features

```
typings install jquery@1.6 --name oldJ
```

Install Command

```
typings install [<name>=<location>]
```

<name> Module name of the installed definition

<location> The location to read from (described below)

Valid Locations:

[<source>~]<pkg>[@<version>][#<tag>]

file:<path>

github:<org>/<repo>[/<path>][#<commitish>]

bitbucket:<org>/<repo>[/<path>][#<commitish>]

npm:<pkg>[/<path>]

bower:<pkg>[/<path>]

http(s)://<host>/<path>

<source> The registry mirror: "npm", "bower", "env", "global", "lib" or "dt"
When not specified, `defaultSource` in `.`.typingsrc` will be used.

<path> Path to a `d.ts` file or `typings.json`

<host> A domain name (with optional port)

<version> A semver range (E.g. ">=4.0")

<tag> The specific tag of a registry entry

<commitish> A git commit, tag or branch

TypeScript 2.0

A New Hope



I FIND YOUR LACK OF FAITH IN TYPINGS DISTURBING

Why Another Change?

How Does It Work?

Demo 4

TypeScript 2.0

Somewhat Extensible

What Doesn't It Do?

You Can Ignore It!

Type Discovery

<https://aka.ms/types>

npm `@`typings

Thanks!

James Churchill
Twitter: @SmashDev
GitHub: smashdevcode

<https://github.com/smashdevcode/typescript-type-acquisition>