# Being More Productive with Type Declaration Files

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# Overview

**Type declaration files**

- What are they?

- Where do I get them?

- How do I use them?

# What Are Type Declaration Files?

**TypeScript wrapper for JavaScript libraries**

- Types for variables, functions, etc.

- Define valid property names
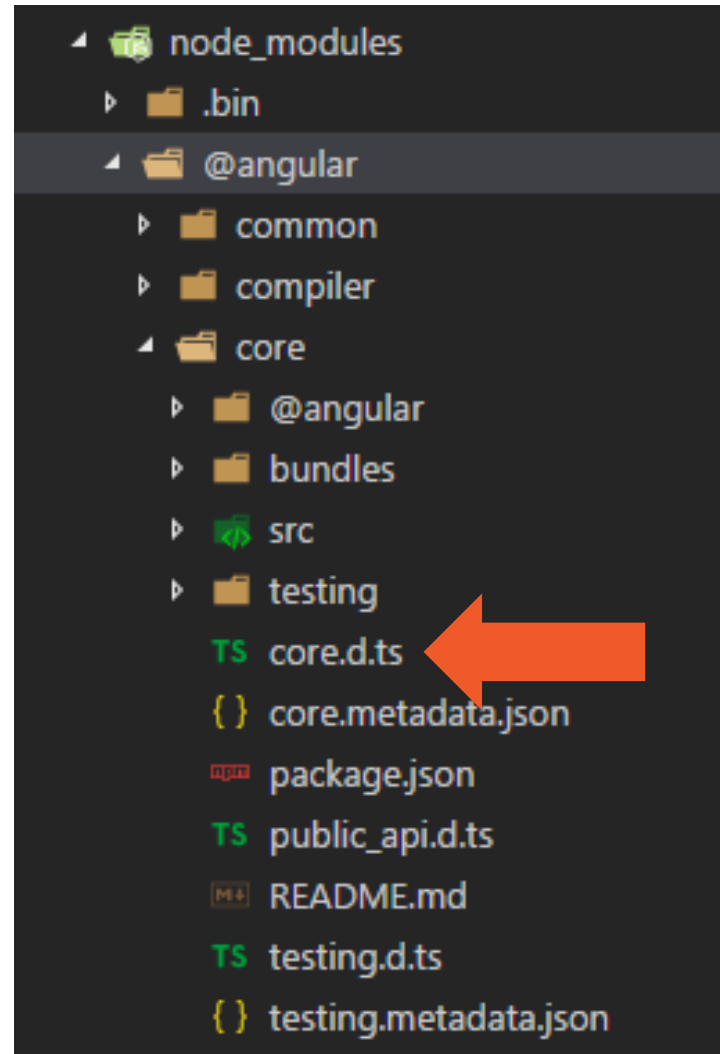
- Define function parameters

- And much more!

**Development-time tool**

**Filenames end with .d.ts**

**Available for thousands of libraries**

# Obtaining Type Declaration Files

# DefinitelyTyped

**Github repository containing thousands of type declaration files**

**Declaration files often maintained independent of related JavaScript library**

**Source for installation utilities**

# Installing Type Declaration Files

## tsd

- Sourced files from DefinitelyTyped

- Deprecated

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## typings

- Improved on tsd
- DefinitelyTyped as primary source

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## tsd
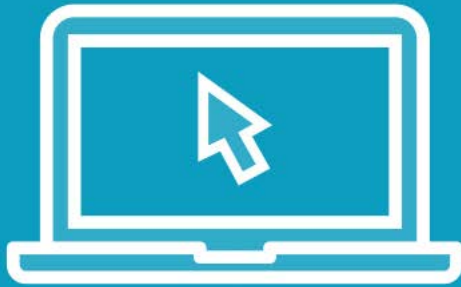- Sourced files from DefinitelyTyped
- Deprecated

## typings
- Improved on tsd
- DefinitelyTyped as primary source

## npm
- TypeScript 2+
- Familiar tool
- Sourced from DefinitelyTyped
- Automatically moved to npm

# Demo

**Installing and using a type declaration file**

# Summary

**Write code faster**

**Find errors faster**

**Provide value faster**

# Next Steps...

## TypeScript In-depth

by Brice Wilson

This course will help you learn all of the major language features in the latest versions of TypeScript.

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## Advanced TypeScript

by Brice Wilson

TypeScript is a modern language with many advanced features. This course will teach you those features that build on the fundamentals you already know and allow you to harness its full power to write better code with fewer errors.

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# Thanks for watching!