TypeScript: Getting Started

INSTALLING TYPESCRIPT AND CONFIGURING A PROJECT



Brice Wilson

@brice_wilson www.BriceWilson.net



Overview



Course overview

MultiMath demo app

Installing TypeScript

Running the compiler

Configuring a project with tsconfig.json

Course Overview

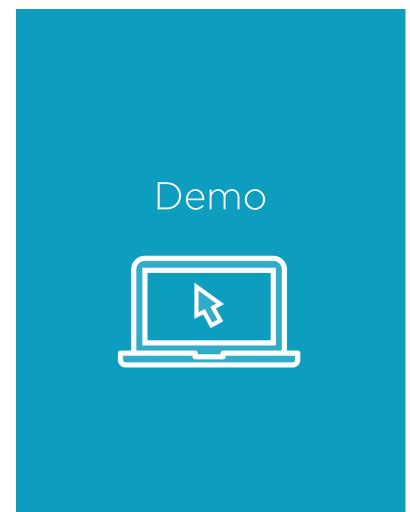
Taking Advantage of Built-in Types

Writing Better Functions with TypeScript

Creating and Using Custom Types

Creating and Consuming Modules

Being More Productive with Type Declaration Files



Demo project overview







Installing TypeScript and running the compiler



TypeScript Project Files



Simple JSON text file named tsconfig.json



Stores compiler options used with the project



Specifies files to be included or excluded in compilation



Supports configuration inheritance

```
1 {
2     "compilerOptions": {
3         "target": "es5",
4         "noUnusedLocals": true,
5         "outFile": "output.js"
6      },
7      "files": [
8          "app.ts"
9      ]
10 }
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Configuring compiler options in tsconfig.json





Configuration inheritance and glob support in tsconfig.json



Compiling with Webpack



Summary



TypeScript website

Installation with npm

Compiler options

Project configuration with tsconfig.json

Compiling with Webpack