## TypeScript Crash-course

## Installing TypeScript

You can install the TypeScript compiler with node:

Then to verify that it is installed, run tsc -v to see the version of the compiler. You will get an output like this:

```
message TS6029: Version 1.7.5
```

In addition to the compiler, we also need to install the TypeScript Definition manager for DefinitelyTyped (tsd). You can install tsd with:

Using TSD, you can search and install TypeScript definition files directly from the community driven DefinitelyTyped repository. To verify that tsd is installed, run tsd with the version flag:

You should get an output like this:

After tsd and tsc are installed, we can compile a hello world program:

• make a file called **hello.ts** on your desktop:

```
1 touch ~/Desktop/hello.ts
```

• Then, put some TypeScript code in the file:

```
1 echo "const adder = (a: number, b: number): number => a + b;" > -
```

• Then you can compile the file to JavaScript:

```
1 tsc ~/Desktop/hello.ts
```

• It should output a file in Desktop/hello.js:

```
1 var adder = function (a, b) { return a + b; };
```

Now that your TypeScript compiler setup, we can move on to configuring Visual Studio Code.