

VERSION 0.1

## How to Write a TypeScript Library

September 15, 2017



## Contents

1	Fun	damentals	2
	1.1	Setup tsconfig.json	2
	1.2	Implement your library	3
	1.3	Create an index.ts file	3
	1.4	Configure package.json	4
	1.5	Configure .npmignore	5
	1.6	Publish to npm	5
2	Create a consumer for your library		
	2.1	Create a folder	6
	2.2	Create a package.json	6
	2.3	Link your library	7
	2.4	Consume your library	7
3	Unit testing a TypeScript library		8
	3.1	Install packages for unit testing	8
	3.2	Writing your first unit test	8
	3.3	Run the unit test(s)	9
4	Building an Angular Library?		10
	4.1	How to write an Angular library	10
	4.2	Create a new project with the AngularCli	11
	4.3	Create a new module	11
	4.4	Build your library module	11
	4.5	Publish	13
5	Writ	ting a command-line executable with TypeScript	14
	5.1	Add execution instructions	14
	5.2	Modify the package ison	14