Instructions to setting up [Typescript](https://www.typescriptlang.org/).

Install with [npm](https://docs.npmjs.com/)

$ npm install -g typescript

$ npm install -g webpack

$ npm install -g ts-loader // links webpack to complie typescript

$ npm install -g jquery // to use jquery in your project

$ npm install -g http-server // to have a local server run

==========

Configure [Typescript](https://www.typescriptlang.org/)

1. Create new Typescript file main.ts:

class SweetSweetClass {

constructor() {

console.log("Even sweeter")

}

}

let basil = new SweetSweetClass()

* 1. Setup tsconfig.json:

{

"compilerOptions": {

"module": "commonjs",

"outDir": "dist/",

"noImplicitAny": true,

"removeComments": true,

"preserveConstEnums": true

},

"include": [

"\*"

],

"exclude": [

"node\_modules",

"\*\*/\*.spec.ts"

]

}

tsc --watch

Notice that the directory dist and the file main.js were created.

* 1. Setup HTML Page:

<!DOCTYPE html>

<html>

<head>

<title></title>

</head>

<body>

<script src='/dist/main.js'></script>

</body>

</html>

Run

$ http-server -c-1

or

$ http-server

Using the flag -c-1 makes the browser never cache the files.

Open up the **Javascript Console** and find the statement "Even sweeter"

Run & Compile with Webpack

Setup webpack.config.js:

var path = require('path');

module.exports = {

entry: './main.ts',

resolve: {

extensions: ['.webpack.js', '.web.js', '.ts', '.js']

},

module: {

loaders: [

{ test: /\.ts$/, loader: 'ts-loader' }

]

},

output: {

filename: 'bundle.js',

path: path.resolve(\_\_dirname, 'dist')

}

}

Run webpack:

Non minified

$ webpack --watch

As minified

$ webpack --watch --optimize-minimize

ERROR in Entry module not found: Error: Can't resolve 'ts-loader'

Use below commands incase you get above error

npm install ts-loader

npm link typescript

webpack --watch --optimize-minimize

Add new [Typescript](https://www.typescriptlang.org/) file called getcoffee.ts:

export class MustHaveCoffee {

constructor() {

console.log("yeah me too!")

}

}

Open main.ts:

import {MustHaveCoffee} from "./getcoffee"

class SweetSweetClass {

constructor() {

console.log("Even sweeter")

}

}

let basil = new SweetSweetClass();

let coffee = new MustHaveCoffee();

Update index.html:

<!DOCTYPE html>

<html>

<head>

<title></title>

</head>

<body>

<script src='/dist/bundle.js'></script>

</body>

</html>

Include [jQuery](http://jquery.com/) with [Typings](https://github.com/typings/typings)

1. Install typings:

npm install typings -g

1. In your project, run:

typings install dt~jquery --global --save

1. Run:

typings install

1. Update tsconfig.json:

{

"compilerOptions": {

"module": "commonjs",

"outDir": "dist/",

"noImplicitAny": true,

"removeComments": true,

"preserveConstEnums": true

},

"include": [

"src/\*",

"typings/\*"

],

"exclude": [

"node\_modules",

"\*\*/\*.spec.ts"

]

}

Import *jQuery* in main.ts

import \* as $ from "jquery";

import {MustHaveCoffee} from "./getcoffee"

class SweetSweetClass {

constructor() {

console.log("Even sweeter");

$('body').css('background-color','blue');

}

}

let basil = new SweetSweetClass();

let coffee = new MustHaveCoffee();

*jQuery* works!

