Publishing Type Definitions

It can be useful to be able to publish these types in custom NPM repos e.g. Gitlab

Configuring `package.json` File

Including `src` and `dist` folders

use `files` key in `package.json` to indicate which directories should be published (https://stackoverflow.com/questions/67523877/index-d-ts-file-not-published-to-npm). By default you likely want to publish both the source code in `src` and the compiled/transpiled typescript->js files in `dist`

e.g.

```
{
  "files": [
    "dist",
    "src"
  ],
}
```

Including types and main

You also need to include a `types` property which tells npm where your defined types (`index.d.ts`) sits - this is likely to be in `dist/index.d.ts` if you follow the conventions in this document.

Main module

In a node module you'd probably use `src/index.js` but we want to use `dist/index.js` - this will be the compiled version of our typescript module.

Configuring `tsconfig.json`

You probably want something like this:

```
{
  "compilerOptions": {
      "sourceMap": true,
      "outDir": "dist",
      "strict": true,
      "lib": [
          "esnext"
      ],
      "allowJs": true,
      "declaration": true,
      "esModuleInterop": true
  },

  "include": ["src/**/*"],
}
```

Use dist for our `outdir` so that the output from transpilation goes to the right place. Use `declaration: true` to have tsc produce an `index.d.ts` declaration file and plonk it into the `dist` folder so that it is picked up by the package.json we configured above.

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