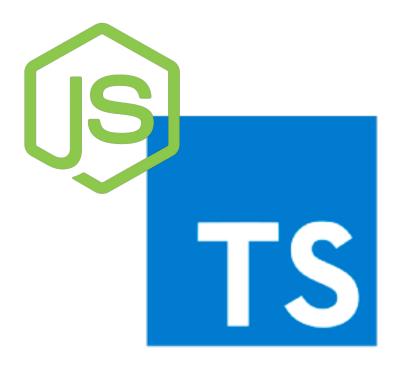
Proyecto_01 TypeScript

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Primero instalamos nodejs.

```
sudo pacman -S nodejs
resolving dependencies...
looking for conflicting packages...
Packages (1) nodejs-16.9.1-1
Total Installed Size: 30,85 MiB
:: Proceed with installation? [Y/n] y
:: Retrieving packages...
nodejs-16.9.1-1-x86_64 is up to date
(1/1) checking keys in keyring
                                                                       [################# 100%
(1/1) checking package integrity
                                                                       [################### ] 100%
(1/1) loading package files
(1/1) checking for file conflicts
                                                                       100%
                                                                       [################## ] 100%
(1/1) checking available disk space
                                                                       [################# ] 100%
:: Processing package changes...
(1/1) installing nodejs
                                                                       [################# 100%
Optional dependencies for nodejs
npm: nodejs package manager
:: Running post-transaction hooks...
(1/1) Arming ConditionNeedsUpdate...
✓ 3s 🗵 08:29:36 @
```

- Comprobamos que esté instalado y que funcione correctamente.

Hacemos lo mismo con npm

```
sudo pacman -S npm
resolving dependencies...
looking for conflicting packages...
Packages (4) node-gyp-8.1.0-2 nodejs-nopt-5.0.0-2 semver-7.3.5-2 npm-7.23.0-1
Total Installed Size: 13,38 MiB
:: Proceed with installation? [Y/n] y
:: Retrieving packages...
npm-7.23.0-1-any is up to date node-gyp-8.1.0-2-any is up to date
semver-7.3.5-2-any is up to date nodejs-nopt-5.0.0-2-any is up to date
(4/4) checking keys in keyring
                                                                             (4/4) checking package integrity
                                                                             [################## ] 1009
(4/4) loading package files
(4/4) checking for file conflicts
(4/4) checking available disk space
                                                                             [################] 100%
                                                                             [################# 100%
                                                                             [################## ] 100%
:: Processing package changes...
(1/4) installing nodejs-nopt
(2/4) installing semver
                                                                             [################ 100%
                                                                             [############### 1009
(3/4) installing node-gyp
(4/4) installing npm
                                                                             [################# 1009
                                                                             [################ ] 1009
: Running post-transaction hooks...
(1/1) Arming ConditionNeedsUpdate...
□ ※ ~
                                                                                                       ✓ 3s 🗵 08:35:26 Ø
```

Y también comprobamos su funcionamiento.

```
> npm
npm <command>
Usage:
                                         install all the dependencies in your project
npm install
                                        add the <foo> dependency to your project
run this project's tests
run the script named <foo>
npm install <foo>
npm test
npm run <foo>
                                        quick help on <command>
display usage info for all commands
search for help on <term>
npm <command> -h
npm -l
npm help <term>
 npm help npm
                                         more involved overview
All commands:
       access, adduser, audit, bin, bugs, cache, ci, completion, config, dedupe, deprecate, diff, dist-tag, docs, doctor, edit, exec, explain, explore, find-dupes, fund, get, help, hook, init, install, install-ci-test, install-test, link, ll, login, logout, ls, org, outdated, owner, pack, ping, pkg, prefix, profile, prune, publish, rebuild, repo, restart, root, run-script, search, set, set-script, shrinkwrap, star, stars, start, stop, team, test, token, uninstall, unpublish, unstar, update, version, view, whoami
Specify configs in the ini-formatted file:
/home/ismael/.npmrc
or on the command line via: npm <command> --key=value
More configuration info: npm help config
Configuration fields: npm help 7 config
npm@7.23.0 /usr/lib/node_modules/npm
```

Instalamos con npm (node package manager) typescript a nivel global

```
> sudo npm install -g typescript
[sudo] password for ismael:

changed 1 package, and audited 2 packages in 3s

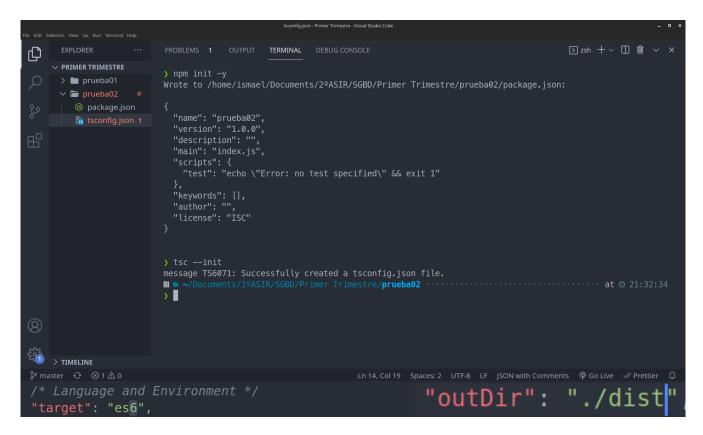
found 0 vulnerabilities

# *~

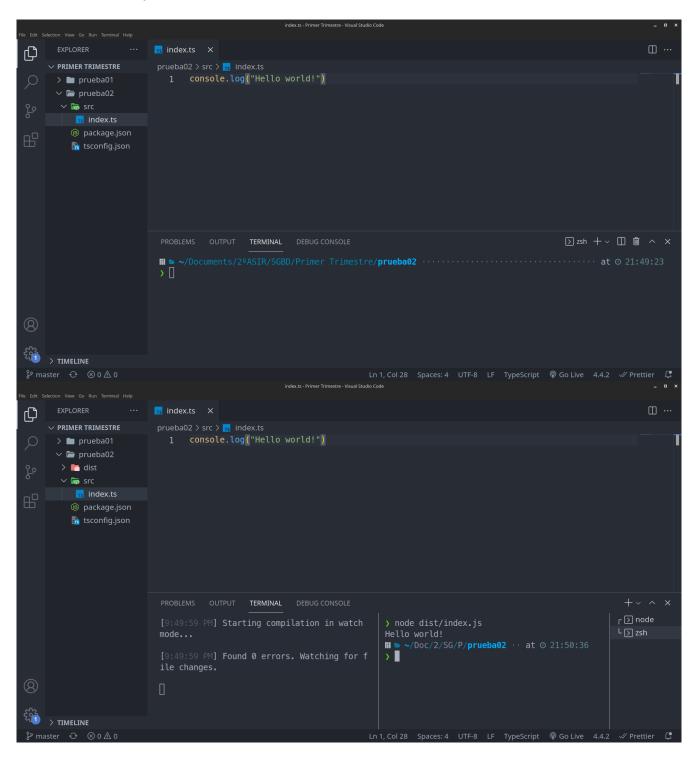
took 

4s at ○ 21:17:09
```

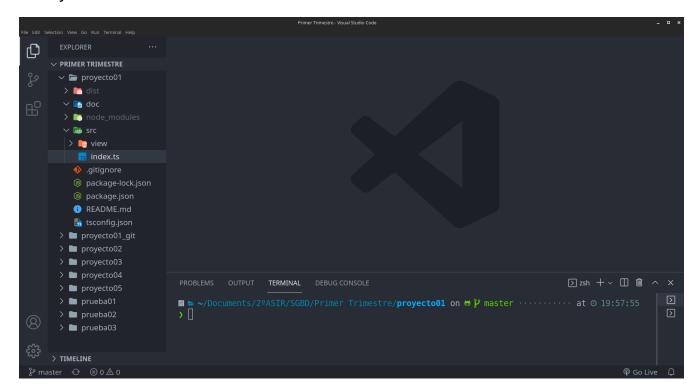
- Se crea la carpeta e inicia la carpeta del proyecto node (genera el archivo package.json) y typescript (genera el archivo tsconfig.json)
- Luego vamos al tsconfig y cambiamos el "target" a "es6", también añadimos de directorio de salida ./dist



- Creamos una carpeta src y un primer archivo en su interior.
- Abrimos dos terminales, uno para llamar al compilador si detecta cambios con tsc -w, otro para llamar al ejecutable JS que se encontrará en la carpeta dist con node dist/index.js



 Así es cómo quedaría el directorio del proyecto al terminar. Con ambas carpetas, scr y dist, y con sus respectivos archivos dentro. Por último los dos archivos de node y tsc.



 De esta forma podemos instalar un proyecto que hayamos clonado de github por ejemplo.