

## Instalamos las dependencias

```
sebas@SebasUbuntuPC:~/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS$ npm install bootstrap @popperjs/core autoprefixer
er clean-webpack-plugin node-sass nodemon postcss-cli webpack webpack-cli webpack-merge --save-dev
npm WARN idealTree Removing dependencies.bootstrap in favor of devDependencies.bootstrap
npm WARN idealTree Removing dependencies.popperjs/core in favor of devDependencies.popperjs/core
npm WARN idealTree Removing dependencies.autoprefixer in favor of devDependencies.autoprefixer
npm WARN idealTree Removing dependencies.clean-webpack-plugin in favor of devDependencies.clean-webpack-plugin
npm WARN idealTree Removing dependencies.node-sass in favor of devDependencies.node-sass
npm WARN idealTree Removing dependencies.nodemon in favor of devDependencies.nodemon

added 61 packages, and audited 910 packages in 12s

65 packages are looking for funding
  run `npm fund` for details

44 vulnerabilities (2 low, 15 moderate, 24 high, 3 critical)

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.
sebas@SebasUbuntuPC:~/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS$
```

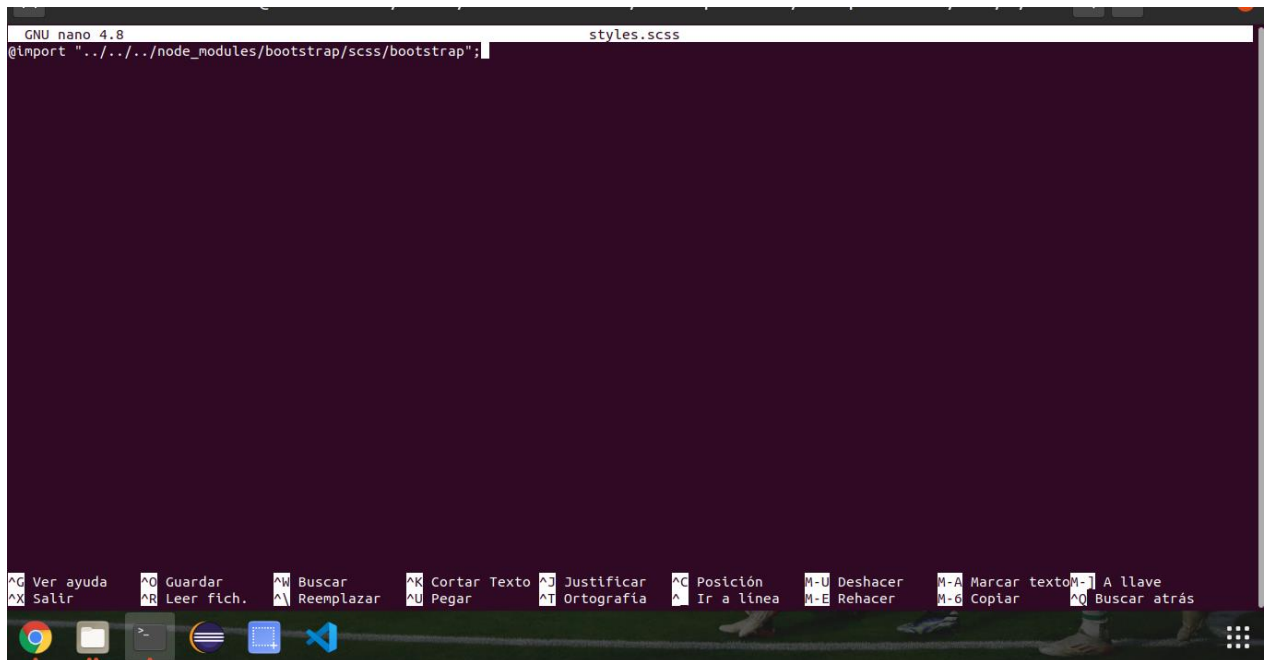
## Creamos la carpeta assets y sus subdirectorios.

```
sebas@SebasUbuntuPC:~/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS$ mkdir assets
sebas@SebasUbuntuPC:~/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS$ cd assets/
sebas@SebasUbuntuPC:~/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets$ mkdir src
sebas@SebasUbuntuPC:~/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets$ cd src/
sebas@SebasUbuntuPC:~/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/src$ mkdir js
sebas@SebasUbuntuPC:~/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/src$ mkdir scss
sebas@SebasUbuntuPC:~/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/src$ cd ..
sebas@SebasUbuntuPC:~/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets$ cd ..
sebas@SebasUbuntuPC:~/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS$ tree assets/
assets/
├── src
│   ├── js
│   └── scss
└──
```

3 directories, 0 files

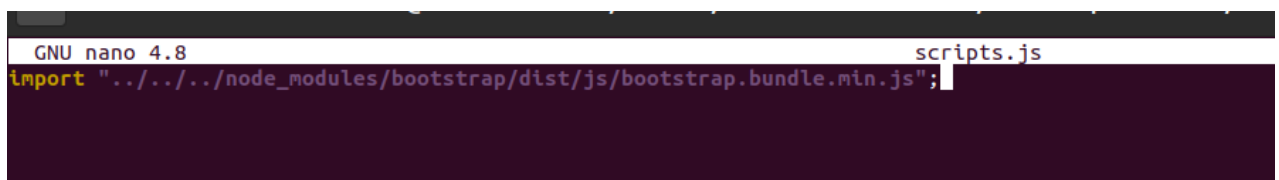
```
sebas@SebasUbuntuPC:~/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS$
```

En assets/src/scss creamos el archivo styles.scss



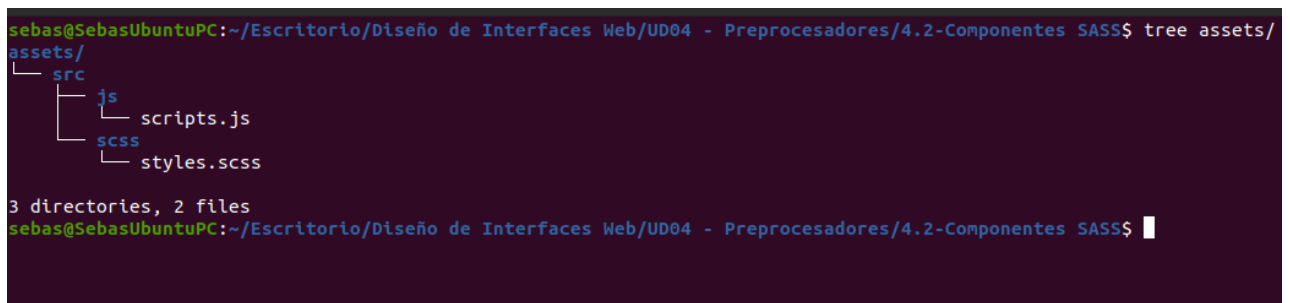
```
GNU nano 4.8 styles.scss
@import "../node_modules/bootstrap/scss/bootstrap";
```

En assets/src/js creamos el archivo scripts.scss



```
GNU nano 4.8 scripts.js
import "../node_modules/bootstrap/dist/js/bootstrap.bundle.min.js";
```

Debe tener la siguiente estructura:



```
sebas@SebasUbuntuPC:~/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS$ tree assets/
assets/
├── src
│   ├── js
│   │   └── scripts.js
│   └── scss
│       └── styles.scss
3 directories, 2 files
sebas@SebasUbuntuPC:~/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS$
```

En el directorio raiz creamos los siguientes archivos js:

webpack.common.js

```

4.2-Componentes SASS > webpack.common.js > ...
1  const path = require("path");
2  const { CleanWebpackPlugin } = require("clean-webpack-plugin");
3  module.exports = {
4    entry: {
5      scripts: "./assets/src/js/scripts.js",
6    },
7    plugins: [new CleanWebpackPlugin()],
8    output: {
9      path: path.resolve(__dirname, "assets/dist/js/"),
10     filename: "[name].js",
11   },
12 };
13

```

webpack.dev.js

```

4.2-Componentes SASS > webpack.dev.js > ...
1  const { merge } = require("webpack-merge");
2  const common = require("../webpack.common.js");
3  module.exports = merge(common, {
4    mode: "development",
5    watch: true,
6    watchOptions: {
7      ignored: /node_modules/,
8    },
9  });
10

```

webpack.prod.js

```

4.2-Componentes SASS > webpack.prod.js > ...
1  const { merge } = require("webpack-merge");
2  const common = require("../webpack.common.js");
3  module.exports = merge(common, {
4    mode: "production",
5  });
6

```

Insertamos los scripts

```

Depuración de b
"scripts": {
  "test": "echo \"Error: no test specified\" && exit 1",
  "scss": "node-sass --watch scss -o css",
  "gallery": "node-sass --watch scss -o gallery/css",
  "grid": "node-sass --watch scss -o grid/css",
  "loader": "node-sass --watch scss -o loader/css",
  "genera-doc": "sassdoc scss -d sassdocs",
  "build": "npm run css && webpack --config webpack.prod.js",
  "css-compile": "node-sass --include-path node_modules --output-style compressed --source-map true --source-map-contents true --p",
  "css-prefix": "postcss --replace assets/dist/css/styles.css --use autoprefixer --map",
  "css": "npm run css-compile && npm run css-prefix",
  "watch": "nodemon -e scss -x \"npm run css && webpack --config webpack.dev.js\""
},
"author": "",
"license": "ISC",
"devDependencies": {
  "css-loader": "^0.28.0",
  "css-minimizer-webpack-plugin": "^1.1.0",
  "cssnano": "^4.1.10",
  "file-loader": "^4.2.0",
  "mini-css-extract-plugin": "^0.9.0",
  "node-sass": "^4.13.1",
  "postcss": "^7.0.27",
  "postcss-loader": "^3.0.0",
  "postcss-preset-env": "^6.7.0",
  "sass-loader": "^8.0.2",
  "sassdoc": "^2.7.1",
  "webpack": "^4.41.2",
  "webpack-cli": "^3.3.10",
  "webpack-dev-server": "^3.10.3"
}

```

Ejecutamos npm run build

```

sebas@SebasUbuntuPC: ~/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS
sebas@SebasUbuntuPC:~/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS$ npm run build

> 4.2-componentes-sass@1.0.0 build
> npm run css && webpack --config webpack.prod.js

> 4.2-componentes-sass@1.0.0 css /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS
> npm run css-compile && npm run css-prefix

> 4.2-componentes-sass@1.0.0 css-compile /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS
> node-sass --include-path node_modules --output-style compressed --source-map true --source-map-contents true --precision 6 assets/src/scss -o assets/dist/css/

Rendering Complete, saving .css file...
Wrote CSS to /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/dist/css/gallery.css
Wrote Source Map to /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/dist/css/gallery.css.map
Rendering Complete, saving .css file...
Wrote CSS to /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/dist/css/grid.css
Wrote Source Map to /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/dist/css/grid.css.map
Rendering Complete, saving .css file...
Wrote CSS to /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/dist/css/loader.css
Wrote Source Map to /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/dist/css/loader.css.map
Rendering Complete, saving .css file...
Wrote CSS to /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/dist/css/styles.css
Wrote Source Map to /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/dist/css/styles.css.map
Wrote 4 CSS files to /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/dist/css/

> 4.2-componentes-sass@1.0.0 css-prefix /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS
> postcss --replace assets/dist/css/styles.css --use autoprefixer --map

asset scripts.js 76.3 KiB [emitted] [minimized] (name: scripts) 1 related asset
runtime modules 663 bytes 3 modules
cacheable modules 76.4 KiB

```

Ejecutamos el comando npm run watch

```
Actividades Terminal 11 de feb 20:56
sebas@SebasUbuntuPC: ~/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS

sebas@SebasUbuntuPC:~/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS$ npm run watch
> 4.2-componentes-sass@1.0.0 watch
> nodemon -e scss -x "npm run css && webpack --config webpack.dev.js"

[nodemon] 2.0.15
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: scss
[nodemon] starting `npm run css && webpack --config webpack.dev.js`

> 4.2-componentes-sass@1.0.0 css /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS
> npm run css-compile && npm run css-prefix

> 4.2-componentes-sass@1.0.0 css-compile /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS
> node-sass --include-path node_modules --output-style compressed --source-map true --source-map-contents true --precision 6 assets/src/scss -o assets/dist/css/

Rendering Complete, saving .css file...
Wrote CSS to /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/dist/css/gallery.css
Wrote Source Map to /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/dist/css/gallery.css.map
Rendering Complete, saving .css file...
Wrote CSS to /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/dist/css/grid.css
Wrote Source Map to /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/dist/css/grid.css.map
Rendering Complete, saving .css file...
Wrote CSS to /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/dist/css/loader.css
Wrote Source Map to /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/dist/css/loader.css.map
Rendering Complete, saving .css file...
Wrote CSS to /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/dist/css/styles.css
Wrote Source Map to /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/dist/css/styles.css.map
Wrote 4 CSS files to /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS/assets/dist/css/

> 4.2-componentes-sass@1.0.0 css-prefix /home/sebas/Escritorio/Diseño de Interfaces Web/UD04 - Preprocesadores/4.2-Componentes SASS
```