

## WebPack Tutorial por Gustavo de Leon 17085

### Pasos:

1. Crear la carpeta (mkdir nameProject) donde se realizará el proyecto e ingresar a esa carpeta (cd nameProject) desde el CMD
2. Ya dentro de la carpeta realizar un “npm init -y” el cual creará un package.json. En este json estarán todas las dependencias que se instalen.

```
C:\Users\Gustavo>cd Desktop
C:\Users\Gustavo\Desktop>cd tutorialWebPack
C:\Users\Gustavo\Desktop\tutorialWebPack>npm init -y
Wrote to C:\Users\Gustavo\Desktop\tutorialWebPack\package.json:

{
  "name": "tutorialWebPack",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC"
}
```

## Webpack

3. Para instalar webpack se usa el comando “npm i -D webpack webpack-cli” con esto se estará instalando webpack y su command-line interface

```
C:\Users\Gustavo\Desktop\tutorialWebPack>npm i -D webpack webpack-cli
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN tutorialWebPack@1.0.0 No description
npm WARN tutorialWebPack@1.0.0 No repository field.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.9 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.9: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ webpack-cli@3.3.9
+ webpack@4.40.2
added 385 packages from 218 contributors and audited 5286 packages in 22.813s
found 0 vulnerabilities
```

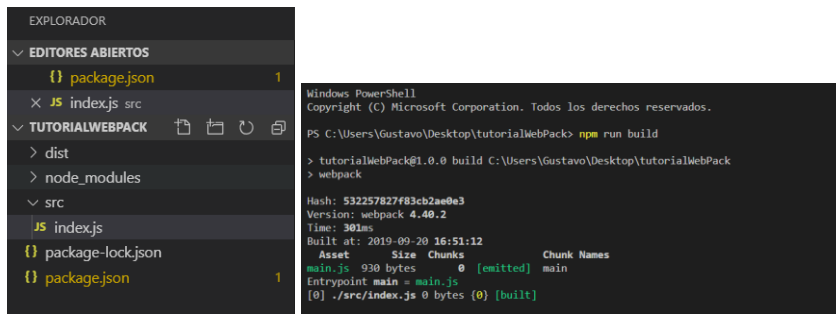
Al hacer esto el package.json se actualizará solo.

```
{
  "name": "tutorialWebPack",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "devDependencies": {
    "webpack": "^4.40.2",
    "webpack-cli": "^3.3.9"
  }
}
```

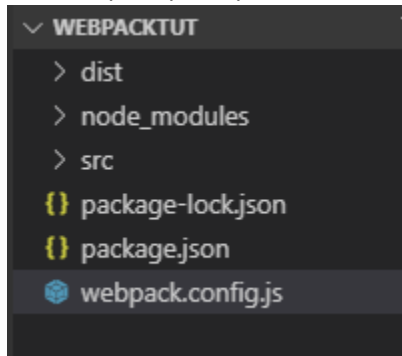
4. Luego en Visual Code se modifica el package.json pasando de test a build

```
1 package.json { } scripts { build
2 {
3   "name": "tutorialWebPack",
4   "version": "1.0.0",
5   "description": "",
6   "main": "index.js",
7   "scripts": {
8     "build": "webpack"
9   },
10  "keywords": [],
11  "author": "",
12  "license": "ISC",
13  "devDependencies": {
14    "webpack": "^4.40.2",
15    "webpack-cli": "^3.3.9"
16  }
17 }
```

5. Dentro de la carpeta principal crear la carpeta “src” la cual es donde se busca correr luego de colocar en la consola “npm run build”. Y dentro de src crear un archivo llamado “index.js”

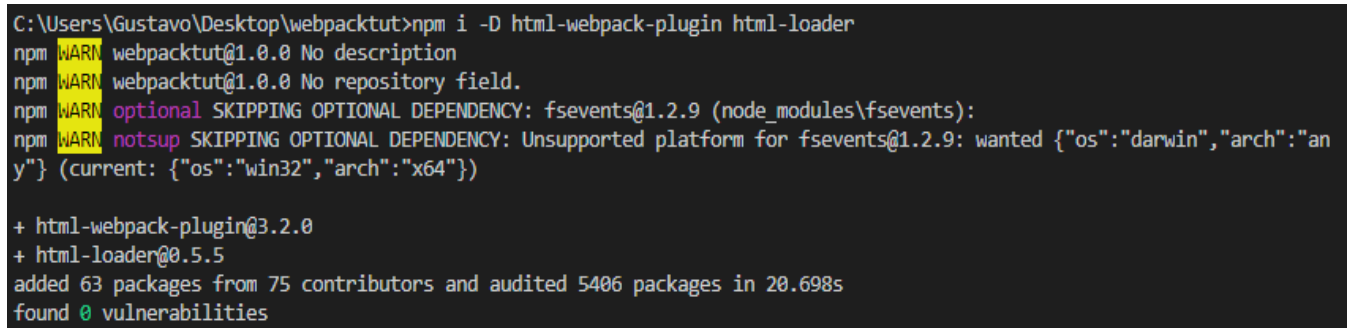


- En la carpeta principal crear un archivo llamado “webpack.config.js”



- Para poder configurar el archivo hay que instalar nuevas dependencias con el comando “npm i -D html-webpack-plugin html-loader”

Con este comando se estará instalando html-webpack-plugin y html-loader



- Dentro del “webpack.config.js” se coloca el siguiente código



- Se instala la dependencia "npm i -D webpack-dev-server"
- En el package.json se agrega un start:dev

```
1  {
2    "name": "webpacktut",
3    "version": "1.0.0",
4    "description": "",
5    "main": "index.js",
6    "scripts": {
7      "build": "webpack",
8      "start:dev": "webpack-dev-server"
9    },
10   "keywords": [],
11   "author": "",
12   "license": "ISC",
13   "devDependencies": {
14     "html-loader": "^0.5.5",
15     "html-webpack-plugin": "^3.2.0",
16     "webpack": "^4.41.0",
17     "webpack-cli": "^3.3.9",
18     "webpack-dev-server": "^3.8.1"
19   }
20 }
21
```

Para probar cambios usar “npm run start:dev”

# BABEL

11. Se instala Babel con “`npm i -D @babel/core babel-loader @babel/preset-env @babel/preset-react`”
  - babel preset env for compiling Javascript ES6 code down to ES5 (please note that babel-preset-es2015 is now deprecated)
  - babel preset react for compiling JSX and other stuff down to Javascript

```
C:\Users\Gustavo\Desktop\webpacktut>npm i -D @babel/core babel-loader @babel/preset-env @babel/pr  
eset-react  
[.....] / rollbackFailedOptional: verb npm-session 684bfff9189eb223  
  
[.....] / rollbackFailedOptional: verb npm-seset-react  
ession 684bfff9189eb223  
  
[.....] / rollbackFailedOptional: verb npm-s  
[.....] | loadDep:source-map: sill resolveWithNewModule babel-loader@8.0.6 checking  
[.....] | loadDep:source-map: sill resolveWithNewModule babel-loader@8.0.6 checking
```

12. Se modifican las reglas del webpack.config.js

```
module.exports = {
  module: {
    rules: [
      {
        test: /\. (js|jsx)$/,
        exclude: /node_modules/,
        use: {
          loader: "babel-loader"
        }
      },
      {
        test: /\.html$/,
        use: [
          {
            loader: "html-loader",
            options: {minimize: true}
          }
        ]
      }
    ]
  },
}
```

## Loaders para imágenes

13. Instalarlo con "npm i -D file-loader"

```
C:\Users\Gustavo\Desktop\webpacktut>npm i -D file-loader
npm WARN webpacktut@1.0.0 No description
npm WARN webpacktut@1.0.0 No repository field.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.9
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported plat
```

14. Se modifican las reglas del webpack.config.js

```
webpack.config.js > [0] <unknown>
1  const HtmlWebpackPlugin = require("html-webpack-plugin");
2
3  module.exports = {
4    module: {
5      rules: [
6        {
7          test: /\. (js|jsx)$/,
8          exclude: /node_modules/,
9          use: {
10            loader: "babel-loader"
11          }
12        },
13        {
14          test: /\.html$/,
15          use: [
16            {
17              loader: "html-loader",
18              options: {minimize: true}
19            }
20          ]
21        },
22        {
23          test: /\. (png|svg|jpg|gif)$/,
24          use: [
25            'file-loader'
26          ]
27        }
28      ]
29    },
30  }
```

## SASS

15. Instalarlo con “npm i -D node-sass style-loader css-loader sass-loader mini-css-extract-plugin”
- node-sass
  - style-loader <https://www.npmjs.com/package/style-loader>
  - css-loader <https://desarrolloweb.com/articulos/procesamiento-css-sass-webpack.html>
  - sass-loader <https://desarrolloweb.com/articulos/procesamiento-css-sass-webpack.html>
  - mini-css-extract-plugin <https://desarrolloweb.com/articulos/procesamiento-css-sass-webpack.html>

```
C:\Users\Gustavo\Desktop\webpacktut>npm i -D node-sass style-loader css-loader sass-loader mini-css-extract-plugin  
> node-sass@4.12.0 install C:\Users\Gustavo\Desktop\webpacktut\node_modules\node-sass  
> node scripts/install.js
```

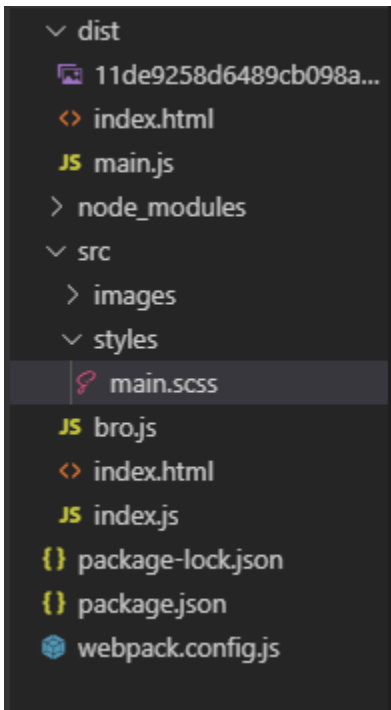
16. Se cambia las reglas

```
{  
  test: /\.js$/,  
  exclude: /node_modules/,  
  use: {  
    loader: "babel-loader"  
  }  
},  
{  
  test: /\.html$/,  
  use: [  
    {  
      loader: "html-loader",  
      options: {minimize: true}  
    }  
  ]  
},  
{  
  test: /\.png|svg|jpg|gif$/,  
  use: [  
    'file-loader'  
  ]  
},  
{  
  test: /\.scss$/,  
  use: [  
    "style-loader",  
    "css-loader",  
    "sass-loader"  
  ]  
}
```

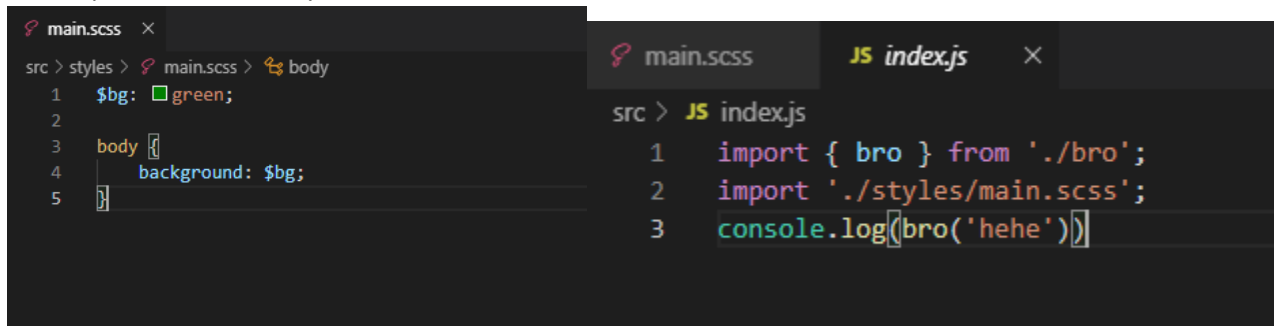
17. Se agrega nueva variable del plugin y se agrega

```
webpack.config.js > [?] <unknown>  
1  const HtmlWebpackPlugin = require("html-webpack-plugin");  
2  const MiniCSSExtractPlugin = require('mini-css-extract-plugin');  
3  
  plugins: [  
    new HtmlWebpackPlugin({  
      template: "./src/index.html",  
      filename: "./index.html"  
    }),  
    new MiniCSSExtractPlugin({  
      filename: "[name].css",  
      chunkFilename: "[id].css"  
    })  
  ]  
}
```

18. Para usar Sass se crea una carpeta styles con el SCSS



19. Y se importa dónde se vaya a usar



## REACT

20. Se instala con npm i react react-dom

```
C:\Users\Gustavo\Desktop\webpacktut>npm i -D react react-dom
npm WARN sass-loader@8.0.0 requires a peer of sass@^1.3.0 but none is installed. You must either
  peer dependencies yourself.
```

## NOTAS

“npm run build” para construir el proyecto luego de instalarle algo.

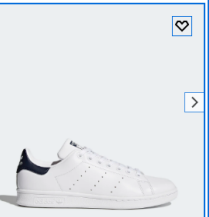
“npm run start:dev” para correr el proyecto y que se modifique en tiempo real.

- (5 puntos) Por implementar ESLint





**FEEDBACK**



|                  |
|------------------|
| Originals        |
| STAN SMITH SHOES |
| \$80             |



**GIFT CARDS**

Check Balance