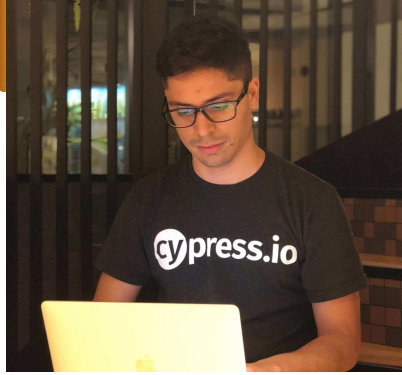


Frontend pro





JavaScript developer, enthusiastic about web development, testing, and knowledge sharing. Senior developer at **Ucademy**, frontend/NodeJS instructor, Cypress ambassador and tech speaker.



B R I K E V 



The logo for Cypress.io, featuring the word "cypress.io" in white lowercase letters on a dark blue background. The "c" is inside a white circle. A thin green horizontal line is positioned below the text.

cypress.io

Spain

Cypress Official meetup
`cy.contains("nice people")`

https://twitter.com/cypress_es

<https://www.meetup.com/es-ES/cypress-spain/>

Requisitos

- Tener soltura con VSCode. Vamos a crear, mover y cambiar muchos archivos.
- Comprender los conceptos del módulo de desarrollo frontend con Javascript.
- Entender y saber utilizar los ESMODULES de Javascript (import/export).
- Entender lo que son los scripts de npm



Objetivos

- Entender el ecosistema de herramientas al que me puedo enfrentar en mi día a día.
- Cómo trabajar de una forma más profesional.
- Saber lo que es un bundle, build o una versión empaquetada.
- Trabajar con preprocesadores de CSS (SASS).



Proyecto para lograr nuestros objetivos



Shinnosuke Nohara

Me llamo Shinnosuke Nohara, tengo 5 años y no me gusta el pimiento. Cuando hay que conquistar, soy todo un profesional, Soy un niño muy ligón, con la fuerza de un ciclón.

Si vienes conmigo lo vas a pasar muy bien, Y verás que yo soy especial.

Mis skills

Patinaje



Futbol



Canto





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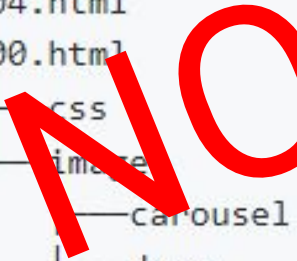
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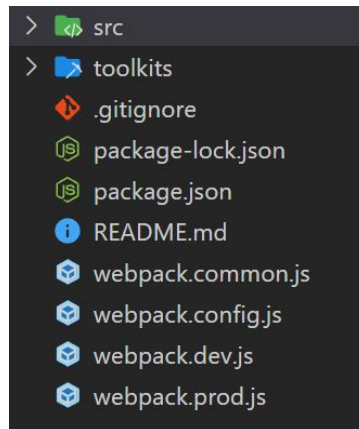


```
index.html
projects.html
404.html
500.html
├── css
├── images
│   ├── carousel
│   ├── docs
│   ├── error
│   ├── header
│   └── projects
```

```
index.html
projects.html
404.html
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├── css
├── image
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│   ├── docs
│   ├── error
│   ├── header
│   └── projects
```





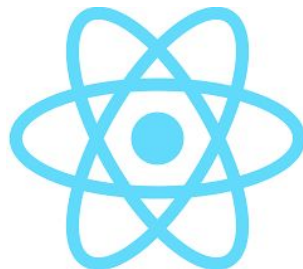


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Frontend Ecosystem





Herramientas esenciales

- Javascript
 - Estándares (ECMA)
 - Extensiones del lenguaje
 - Typescript
 - JSX (React)
 - Librerías (jquery, lodash, dayjs...)
- CSS
 - PreProcesadores (SASS, LESS, STYLUS)
- Toolkits (HTML + CSS + JS)
 - Bootstrap
 - Tailwind
- Frameworks (React / Angular / Vue)





ECMAScript





Standardization of the general purpose, cross platform, vendor-neutral programming language ECMAScript[®]. This includes the language syntax, semantics, and libraries and complementary technologies that support the language.



Un poco de historia



```
var helloWorld = 'Hello world';  
  
console.log(helloWorld);  
  
const helloWorld = 'Hello world';  
  
console.log(helloWorld);
```



ECMAScript 5

ES5 (2009)



Funcionalidades en ES5

- "use strict"
- String[number] access
- Multiline strings
- String.trim()
- Array.isArray()
- Array.forEach()
- Array.map()
- Array.filter()
- Array.reduce()



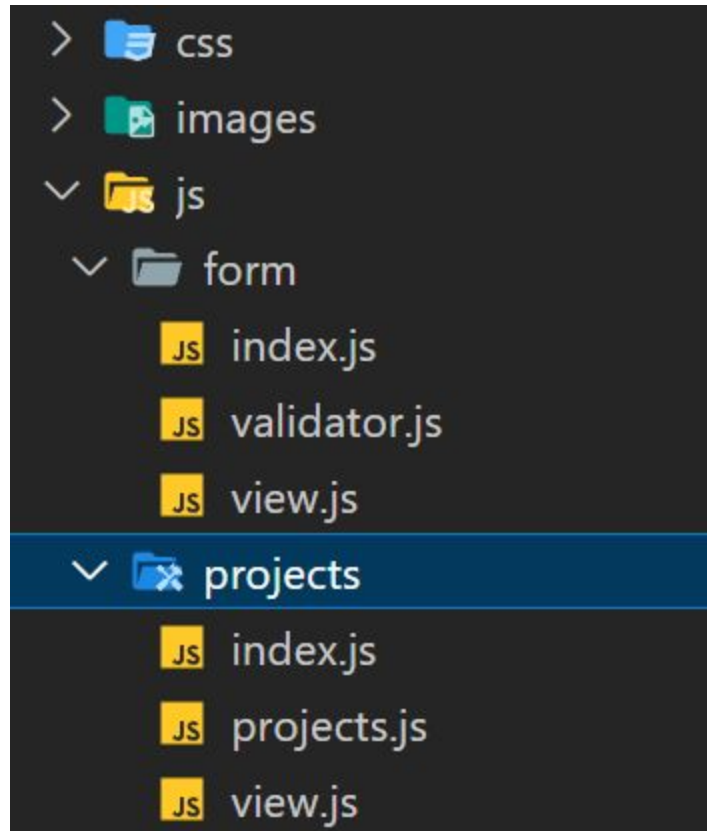
ECMAScript 6

ES6 (2015)



Funcionalidades en ES6

- The let keyword
- The const keyword
- Arrow Functions
- The ... Operator
- For/of
- Map Objects
- Set Objects
- Classes
- Promises
- Symbol
- Default Parameters
- Function Rest Parameter






```
"use strict";  
module.exports = self => {  
  ✖ bundle.js:1627 SyntaxError: Unexpected token '>'  
  for (const key of Object.getOwnPropertyNames(self.constructor.prototype)) {  
    const val = self[key];  
  
    if (key !== 'constructor' && typeof val === 'function') {  
      self[key] = val.bind(self);  
    }  
  }  
  
  return self;  
};
```



BABEL

BABEL



[Docs](#) [Setup](#) [Try it out](#) [Videos](#)

▼ SETTINGS

- ☐ Evaluate
- ☒ Line Wrap
- ☐ Prettify
- ☐ File Size
- ☐ Time Travel

```
1 const foo = () => 'Hola mundo!';
```

```
1 var foo = function foo() {  
2   return 'Hola mundo!';  
3 };
```





```

  ✓ dist
    JS app.bundle.js
    index.html
  > images
  ✓ js
    ✓ form
      JS index.js
      JS validator.js
      JS view.js
    ✓ projects
      JS index.js
      JS projects.js
      JS view.js

```





Bundle

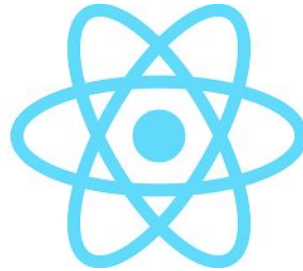


Un JavaScript Bundle nos permite empaquetar de forma rápida un conjunto de clases o funciones de JavaScript que se encuentran diseminadas en ficheros independientes como un único fichero de tal forma que en el navegador pueda ser cargado como una única referencia de forma rápida y transparente para el desarrollador.





```
npx tsc index.ts --outfile index.js
```

```
1 export default function TodoList() {
2   return (
3     <>
4       <h1>Hedy Lamarr's Todos</h1>
5       
10      <ul>
11        <li>Invent new traffic lights</li>
12        <li>Rehearse a movie scene</li>
13        <li>Improve the spectrum technology</li>
14      </ul>
15    </>
16  );
```

▼ Show more

Hedy Lamarr's Todos



- Invent new traffic lights
- Rehearse a movie scene
- Improve the spectrum technology

Herramientas esenciales

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Librerías

CDN / Descargar





Herramientas esenciales

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The Sass logo is rendered in a vibrant magenta color using a fluid, handwritten-style script. The letter 'S' is particularly large and features a prominent, sweeping loop at its top. The overall aesthetic is elegant and modern.



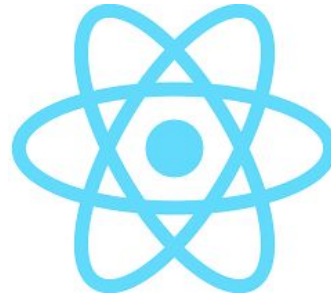
Herramientas esenciales

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Shinnosuke Nohara

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Mis skills

Patinaje



Futbol



Canto



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Analizemos el problema



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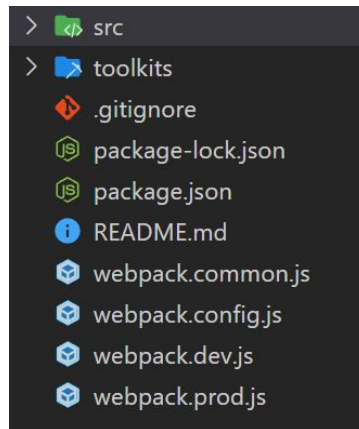
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│   └── projects
```

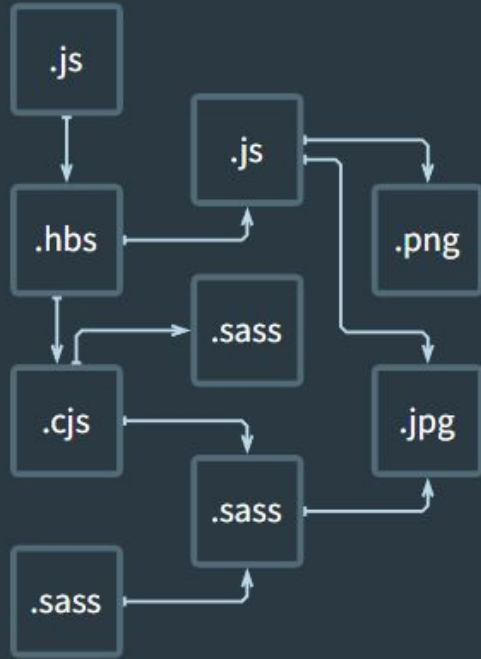




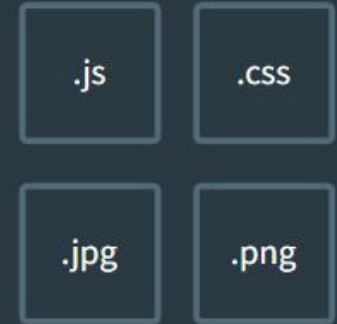
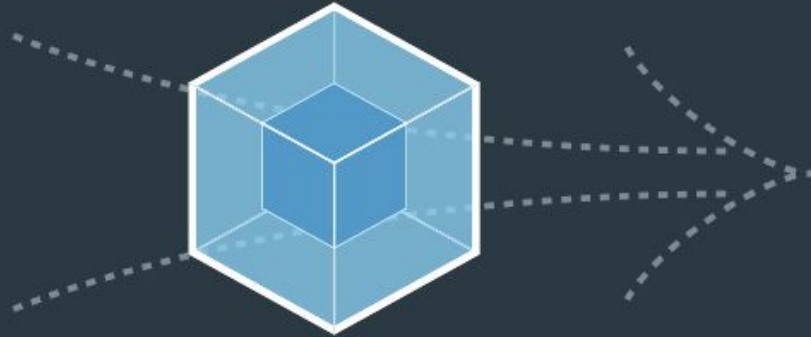


Webpack is a free and open-source module bundler for JavaScript. It is made primarily for JavaScript, but it can transform front-end assets such as HTML, CSS, and images if the corresponding loaders are included.



bundle your scripts



MODULES WITH DEPENDENCIES



STATIC ASSETS



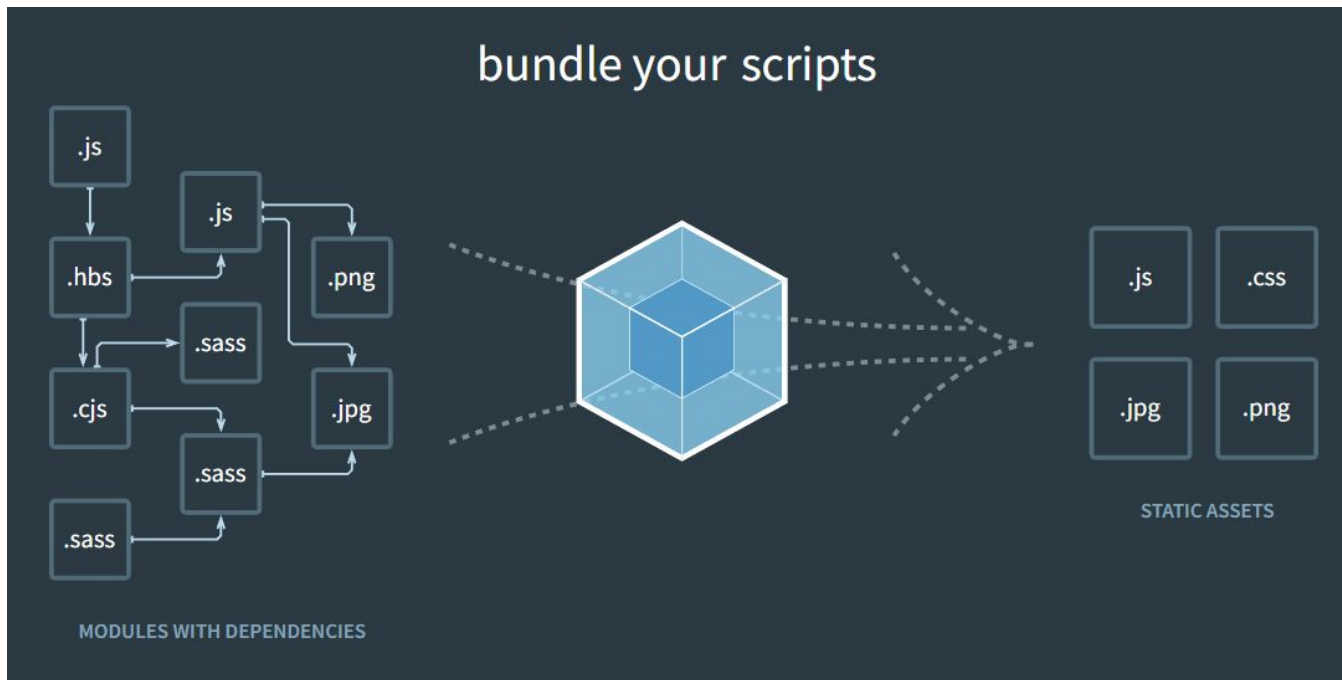
```
index.html
projects.html
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├── css
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```



webpack

- entry point
 - npm scripts
 - development mode
 - output
 - multiple entry point
 - output naming
 - sourcemaps
 - Migrar App Shin-Chan
- loaders
 - styles
 - assets
 - plugins
 - development server
 - webpack merge

Entry point



Entry point

```
webpack.config.js > ...  
1  module.exports = {  
2    entry: './src/index.js'  
3  };  
4
```

npm scripts

```
6   "scripts": {  
7     "webpack": "webpack"  
8   },
```


development mode

```
kevin@DESKTOP-P606LNT MINGW64 ~/keepcoding/web14/frontend-pro (main *%>)  
$ npm run webpack  
  
> frontend-pro@1.0.0 webpack  
> webpack  
  
asset main.js 27 bytes [emitted] [minimized] (name: main)  
./src/index.js 187 bytes [built] [code generated]  
  
WARNING in configuration  
The 'mode' option has not been set, webpack will fallback to 'production' for this value.  
Set 'mode' option to 'development' or 'production' to enable defaults for each environment.  
You can also set it to 'none' to disable any default behavior. Learn more: https://webpack.js.org/configuration/mode/  
  
webpack 5.76.2 compiled with 1 warning in 186 ms
```

development mode

 webpack.config.js > ...
You, 26 seconds ago | 1 author (You)
1 ∨ module.exports = {
2 entry: './src/index.js',
3 mode: 'development',
4 };
5

output

```
webpack.config.js > ...  
You, 8 seconds ago | 1 author (You)  
1  const path = require('path');  
2  
3  module.exports = {  
4    entry: './src/index.js',  
5    mode: 'development',  
6    output: {  
7      filename: 'bundle.js',  
8      path: path.resolve(__dirname, 'dist'),  
9      clean: true,  
10   },  
11 };  
12
```

multiple entry point

```
webpack.config.js > [?] <unknown>
You, 52 seconds ago | 1 author (You)
1  const path = require('path');
2
3  module.exports = { You, 19 minutes ago
4    entry: {
5      index: './src/index.js',
6      main: './src/app.js',
7    },
8    mode: 'development',
9    output: {
10     filename: 'bundle.js',
11     path: path.resolve(__dirname, 'dist'),
12     clean: true,
13   },
14 };
15
```

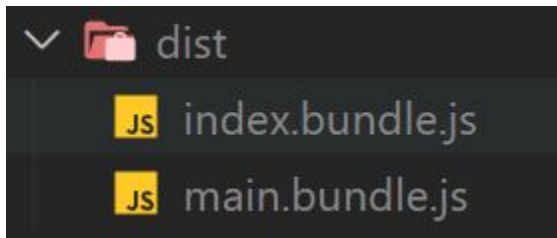
multiple entry point

```
kevin@DESKTOP-P606LNT MINGW64 ~/keepcoding/web14/frontend-pro (main *%>)  
$ npm run webpack  
  
> frontend-pro@1.0.0 webpack  
> webpack  
  
[webpack-cli] Error: Conflict: Multiple chunks emit assets to the same filename bundle  
.js (chunks index and main)  
    at D:\kevin\keepcoding\web14\frontend-pro\node_modules\webpack\lib\Compilation.js:  
4617:12  
    at D:\kevin\keepcoding\web14\frontend-pro\node_modules\webpack\lib\Cache.js:91:34  
    at Array.<anonymous> (D:\kevin\keepcoding\web14\frontend-pro\node_modules\webpack\  
lib\cache\MemoryCachePlugin.js:45:13)  
    at D:\kevin\keepcoding\web14\frontend-pro\node_modules\webpack\lib\Cache.js:91:19  
    at Hook.eval [as callAsync] (eval at create (D:\kevin\keepcoding\web14\frontend-pr  
o\node_modules\tapable\lib\HookCodeFactory.js:33:10), <anonymous>:19:1)  
    at Cache.get (D:\kevin\keepcoding\web14\frontend-pro\node_modules\webpack\lib\Cach  
e.js:75:18)  
    at ItemCacheFacade.get (D:\kevin\keepcoding\web14\frontend-pro\node_modules\webpac  
k\lib\CacheFacade.js:111:15)  
    at D:\kevin\keepcoding\web14\frontend-pro\node_modules\webpack\lib\Compilation.js:  
4563:22  
    at arrayEach (D:\kevin\keepcoding\web14\frontend-pro\node_modules\neo-async\async.  
js:2405:9)  
    at Object.each (D:\kevin\keepcoding\web14\frontend-pro\node_modules\neo-async\asyn  
c.js:2846:9)
```

output naming

```
webpack.config.js > ...  
You, 29 seconds ago | 1 author (You)  
1  const path = require('path');  
2  
3  module.exports = {  
4    entry: {  
5      index: './src/index.js',  
6      main: './src/app.js',  
7    },  
8    mode: 'development',  
9    output: {  
10     filename: '[name].bundle.js',  
11     path: path.resolve(__dirname, 'dist'),  
12     clean: true,  
13   },  
14 };  
15
```

output naming



sourcemaps

```
webpack.config.js > ...  
You, 6 minutes ago | 1 author (You)  
1  const path = require('path');  
2  
3  module.exports = {  
4    entry: {  
5      index: './src/index.js',  
6      main: './src/app.js',  
7    },  
8    mode: 'development',  
9    devtool: 'inline-source-map', // 'source-map'  
10   output: {  
11     filename: '[name].bundle.js',  
12     path: path.resolve(__dirname, 'dist'),  
13     clean: true,  
14   },  
15 };  
16
```

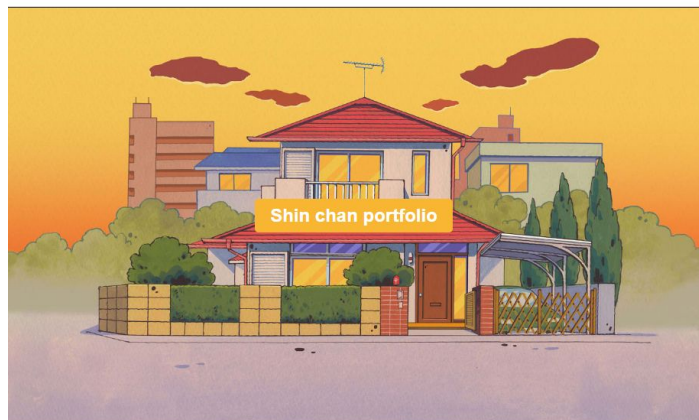

sourcemaps

```
webpack.config.js > ...  
You, 6 minutes ago | 1 author (You)  
1  const path = require('path');  
2  
3  module.exports = {  
4    entry: {  
5      index: './src/index.js',  
6      main: './src/app.js',  
7    },  
8    mode: 'development',  
9    devtool: 'inline-source-map', // 'source-map'  
10   output: {  
11     filename: '[name].bundle.js',  
12     path: path.resolve(__dirname, 'dist'),  
13     clean: true,  
14   },  
15 };  
16
```

Migrar app



[Proyectos](#) [Skills](#) [Contacto](#)



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Mis skills

Patinaje



Aminable

Futbol



Baila

Canto



Timidez

Loaders styles

```
webpack.config.js > ...  
You, 2 minutes ago | 1 author (You)  
1  const path = require('path');  
2  
3  module.exports = {  
4    entry: {  
5      home: './src/home.js',  
6      projects: './src/projectsPage.js',  
7    },  
8    mode: 'development',  
9    devtool: 'inline-source-map', // 'source-map'  
10   output: {  
11     filename: '[name].bundle.js',  
12     path: path.resolve(__dirname, 'dist'),  
13     clean: true,  
14   },  
15   module: {  
16     rules: [  
17       {  
18         test: /\.css$/i,  
19         use: ['style-loader', 'css-loader']  
20       },  
21     ],  
22   },  
23 };  
24
```

Loaders files

```
15  module: {  
16    rules: [  
17      {  
18        test: /\.css$/i,  
19        use: ['style-loader', 'css-loader']  
20      },  
21      {  
22        test: /\..(png|svg|jpg|jpeg|gif)$/i,  
23        type: 'asset/resource',  
24      },  
25    ],  
26  },  
27 };  
28
```

Plugins

```
1  const path = require('path');
2  const HtmlWebpackPlugin = require('html-webpack-plugin');
3
4  module.exports = {
5    > entry: { ...
6
7  },
8    mode: 'development',
9    devtool: 'inline-source-map', // 'source-map'
10
11  > output: { ...
12
13  },
14    module: { ...
15
16  },
17    plugins: [
18      > new HtmlWebpackPlugin({
19
20      title: 'Output Management',
21      filename: 'index.html',
22      template: 'src/templates/index.html',
23      chunks: ['home'],
24    }),
25    > new HtmlWebpackPlugin({ ...
26
27    }),
28  ],
29  };
30
31
32
33
34
35
36
37
38
39
40
41
42
43
```

Plugins - HTML + IMAGENES

```
<a href="index.html">  
    
</a> You, 7 minutes ago • feat: add html plugin
```

DevServer

```
6   "scripts": {  
7     "webpack": "webpack",  
8     "webpack:watch": "webpack --watch",  
9     "webpack:serve": "webpack serve"  
10  },
```

webpack

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- development server
- webpack merge

The Sass logo is rendered in a vibrant magenta color using a fluid, handwritten-style script. The letter 'S' is particularly large and features a prominent, sweeping loop at its top. The 'a' and 's' characters are also stylized with elegant curves and flourishes, giving the entire logo a sense of movement and artistic flair.

Sass



SASS es un pre-procesador CSS

Añade características dinámicas a CSS como mixin, funciones...

Ventajas:

- Desarrollo de CSS más rápido
- Mejor mantenimiento del código

Inconvenientes

- Hay que procesar SASS cada vez que hacemos un cambio para obtener el CSS modificado

SASS Syntax

```
nav
  ul
    margin: 0
    padding: 0
    list-style: none
```

SCSS Syntax

```
nav {
  ul {
    margin: 0;
    padding: 0;
    list-style: none;
  }
}
```






Ejemplos

Loaders sass

```
module: {  
  rules: [  
    {  
      test: /\.s[ac]ss$/i,  
      use: ['style-loader', 'css-loader', 'sass-loader']  
    },  
  ],  
}
```

You, 1 hour ago • feat: add css loader and styl

webpack merge

 webpack.common.js
 webpack.dev.js
 webpack.prod.js

```
"dev": "webpack serve --config webpack.dev.js",  
"build": "webpack --config webpack.prod.js"
```



KEEPCODING

Tech School

Madrid | Barcelona | Bogotá

<https://www.linkedin.com/in/kevinjmartinez/>

<https://twitter.com/kevinccbsg>

<https://www.meetup.com/es-ES/cypress-spain/>