

Learn webpack,
and sleep at night.

Outline

Feature#1 Modules 🔞

Feature#2 Task Runner 😽

Feature#3 Project Builder 🐽

Web is growing

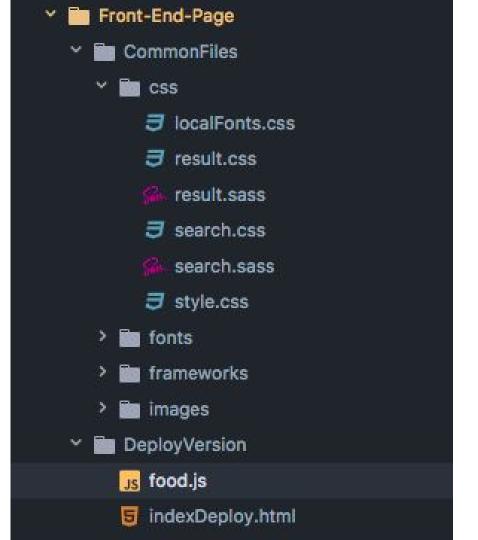








And My Code, too.



But We Still Use the Stone-Age way to build project.

```
function foo(){
    //...
}
function bar(){
    //...
}
```

```
var MYAPP = {
    foo: function(){},
    bar: function(){}
}

MYAPP.foo();
```

```
var Module = (function(){
    var _private = "safe now";
    var foo = function(){
        console.log(_private)
    return {
        foo: foo
3)()
Module.foo();
Module._private; // undefined
```

Having Trouble Cooking Our Tag Soup

```
body
   script(src="zepto.js")
    script(src="jhash.js")
    script(src="fastClick.js")
   script(src="iScroll.js")
    script(src="underscore.js")
    script(src="handlebar.js")
   script(src="datacenter.js")
   script(src="deferred.js")
    script(src="util/wxbridge.js")
    script(src="util/login.js")
   script(src="util/base.js")
   script(src="util/city.js")
```

The 1st Problem

The current JS structure is doing too little.

We have already organized a good file structure.

Still have to write a lot of <script src="app1.js"></script>!

Other Programming Languages

C

```
1 int foo( int x )
2 {
3    return x + 5;
4 }
5
```

Python

```
1./
1 def foo():
2 print('I am a module')
3
```

```
1 import foo
2
3 foo.foo()
4
5
```

Say Hello to Webpack modules!

add.js

```
function add ( a , b ) {
    console.log( a + b );
}
exports.add = add;
```

app.js

```
var add_module = require('./add.js');
var num = add_module.add( 10 , 20 );
console.log( num );
```

Webpack Feature #1 Modules &

- 1. no more globals , only import
- 2. no name conflicts, ever
- 3. you can just write one <script></script>
- 4. dependencies is not messy
- 5. supports the module ecosystem of npm

Second Problem

Too many preprocessors/transpilers





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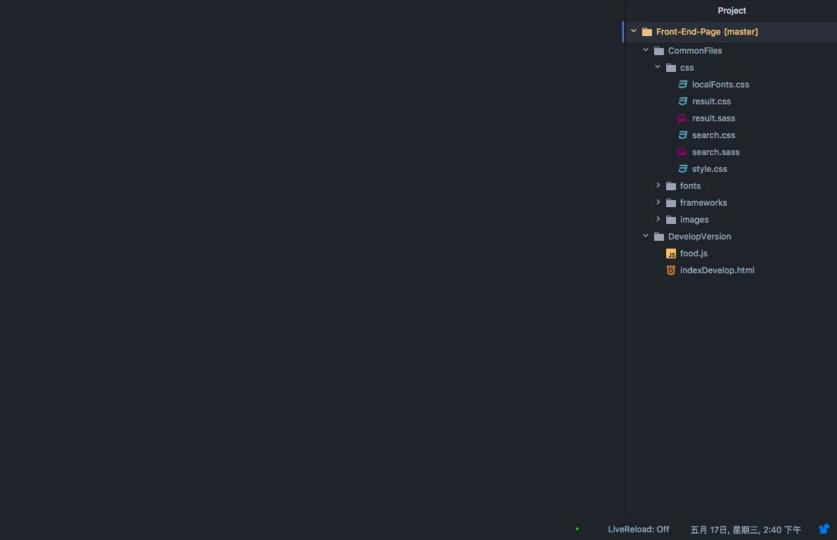
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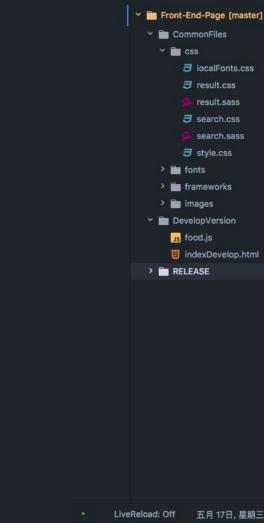
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AlxTz@AlxTzMac Front-End-Page/DevelopVersion master babel app2.js --out-file app2_babel.js

And when you launch a release version?

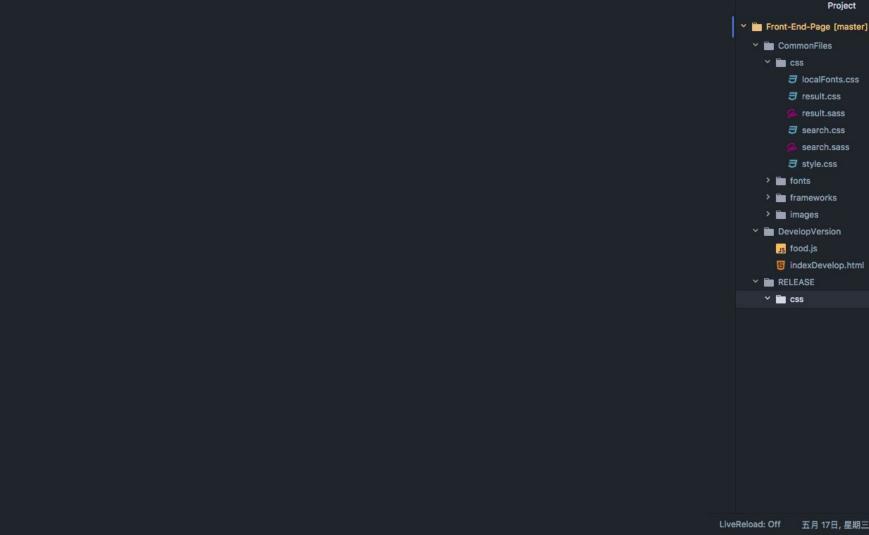




Project

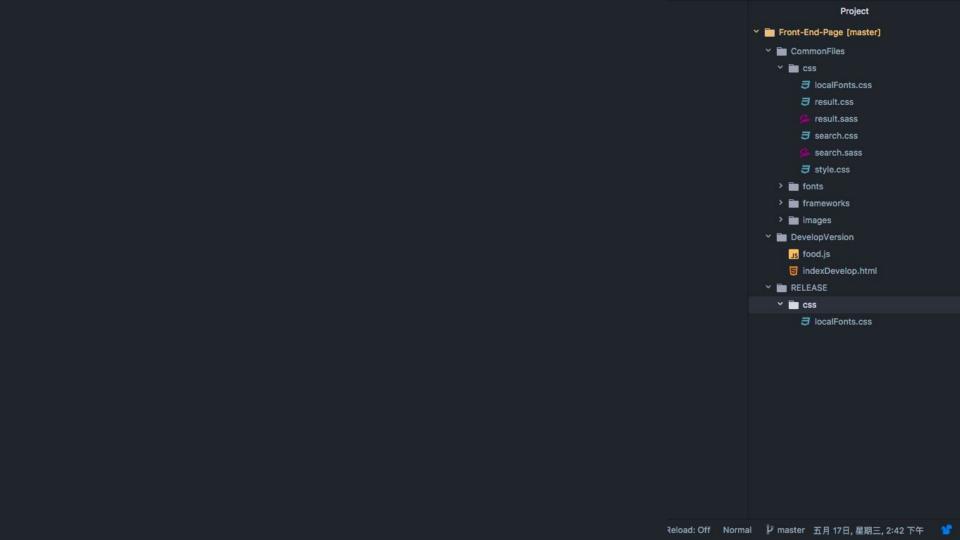
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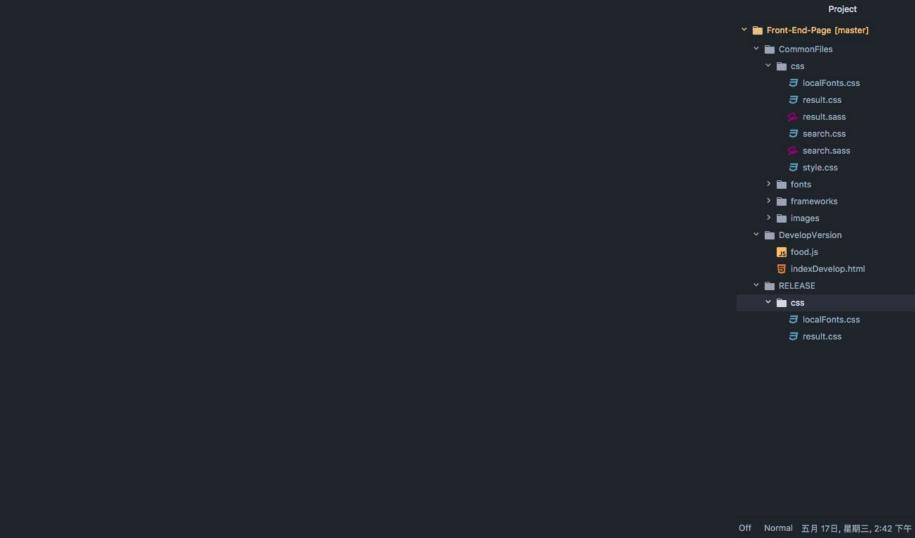
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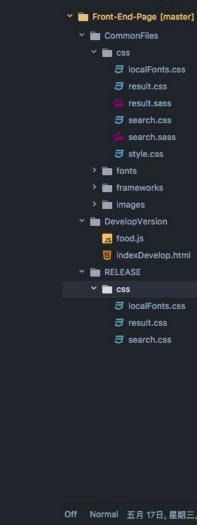
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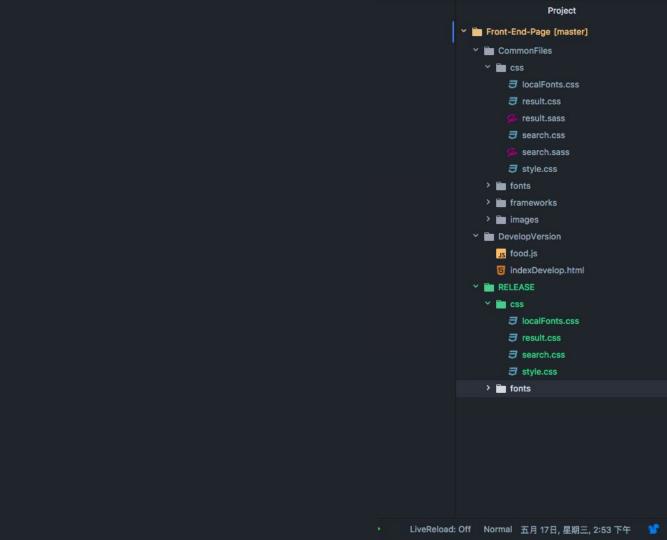


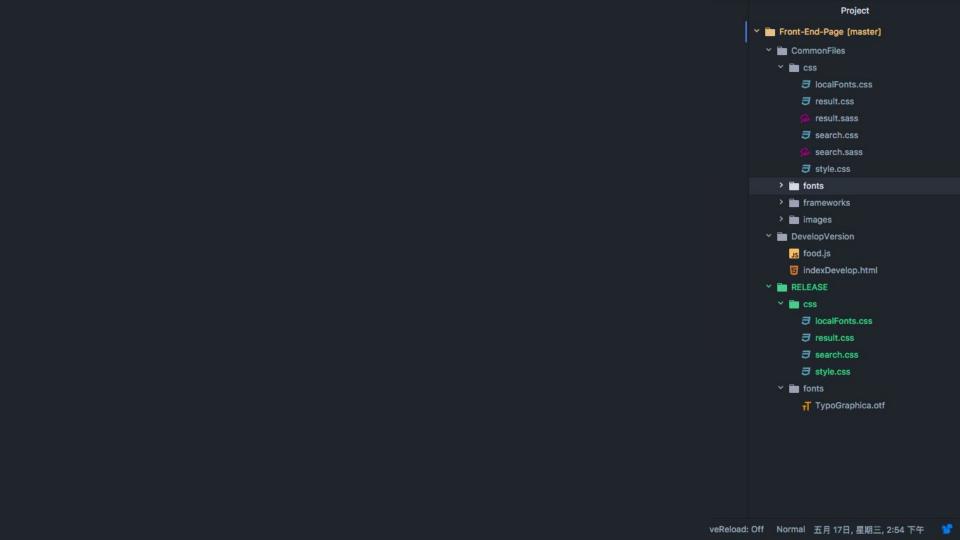
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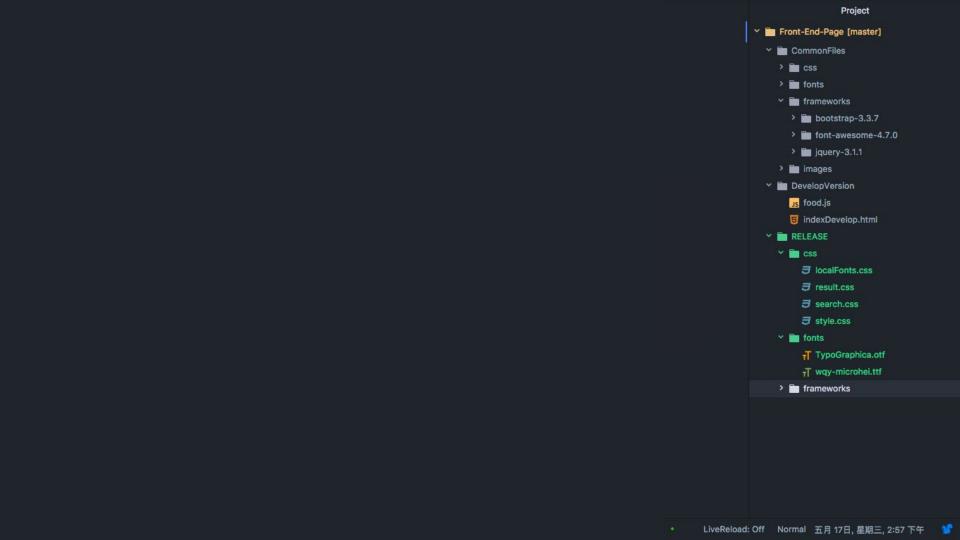
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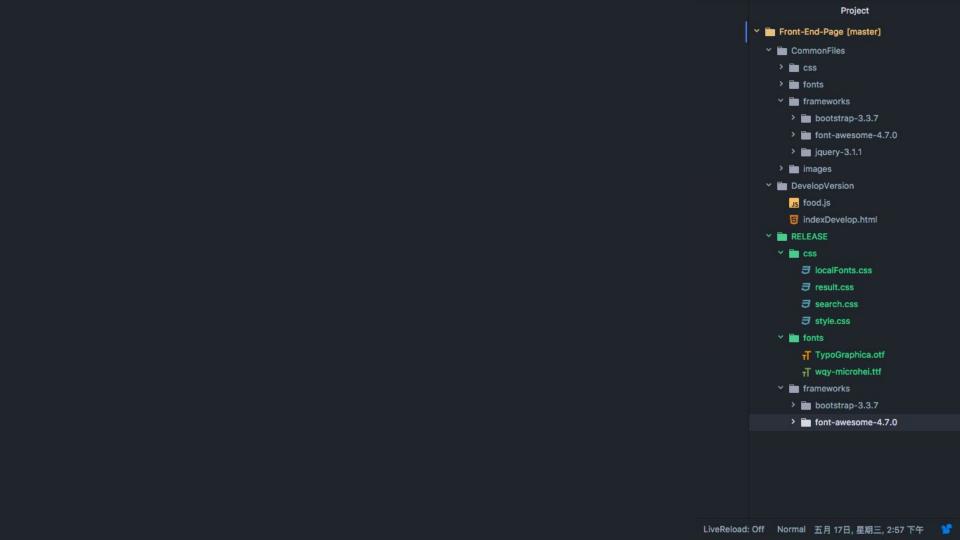




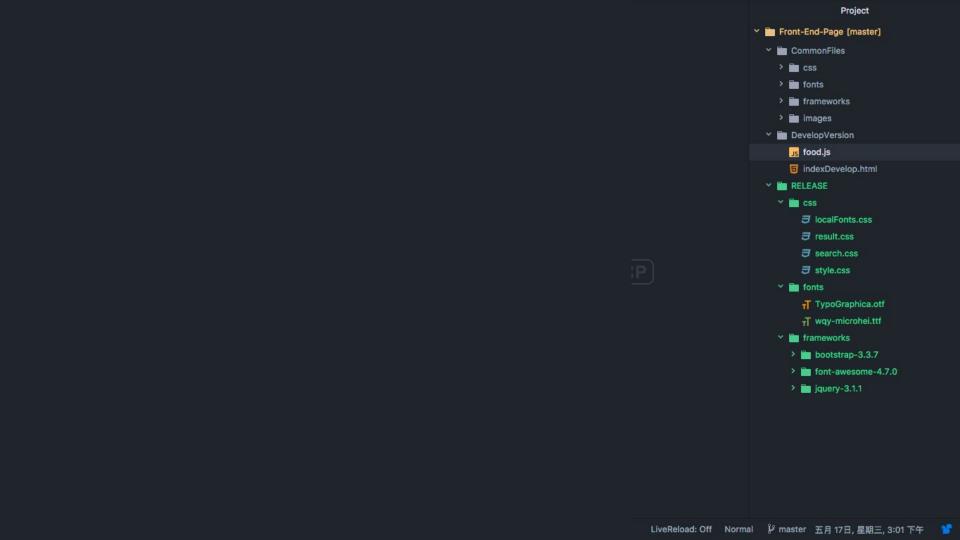








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Project

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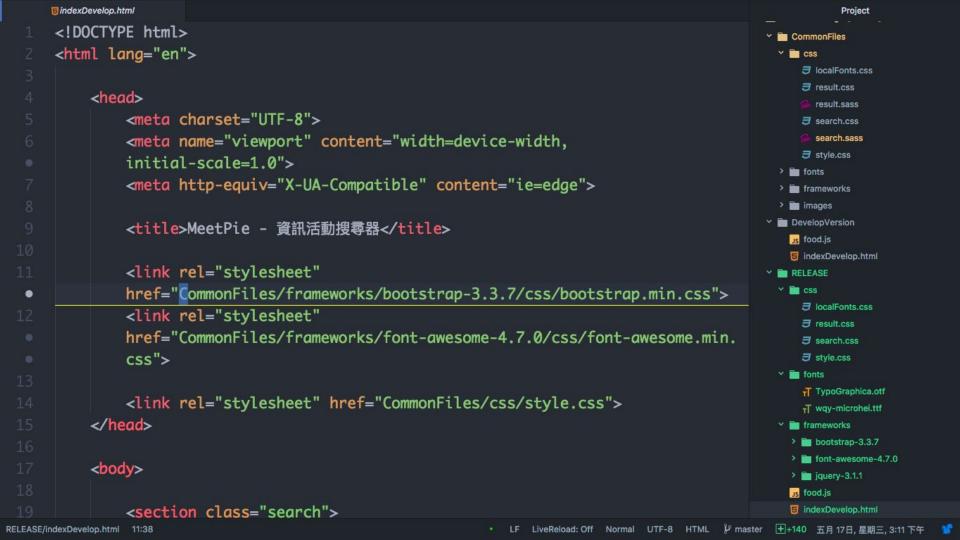


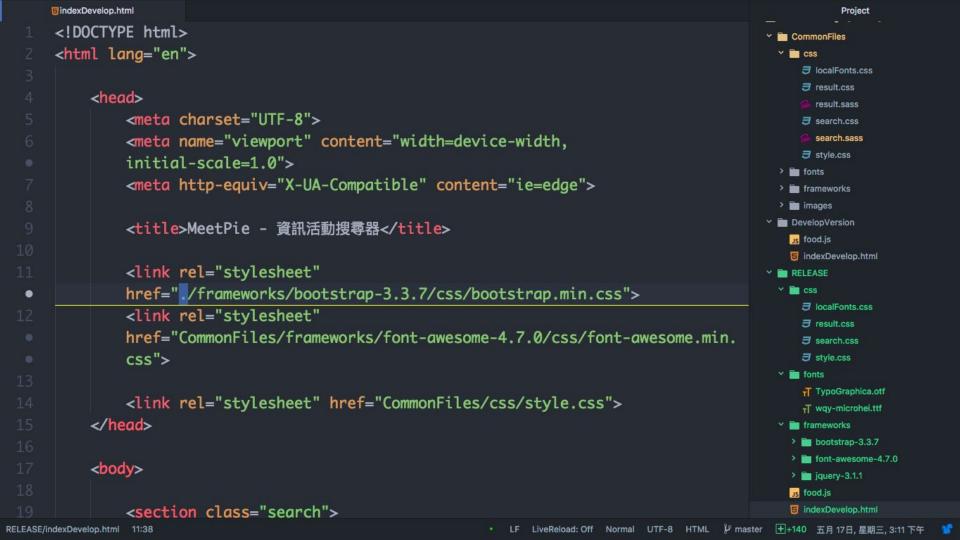
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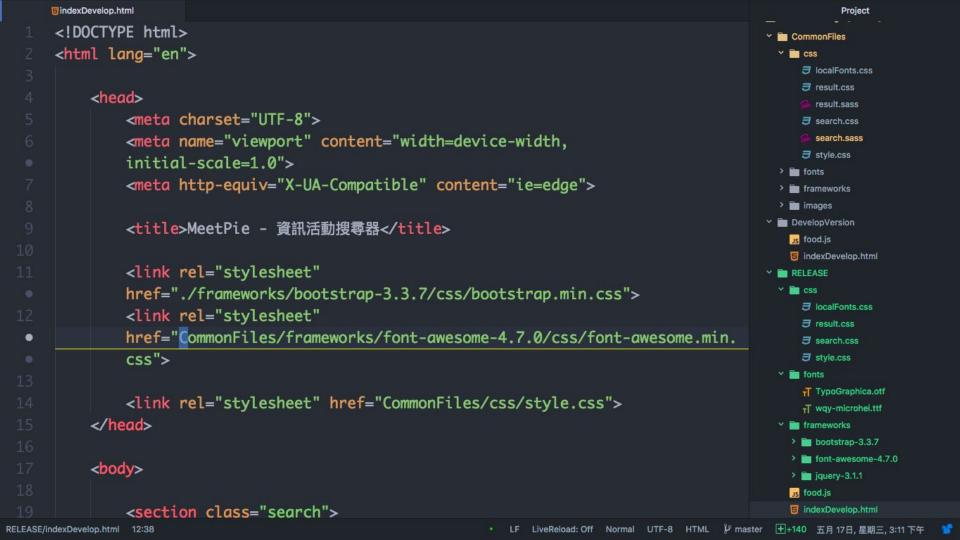
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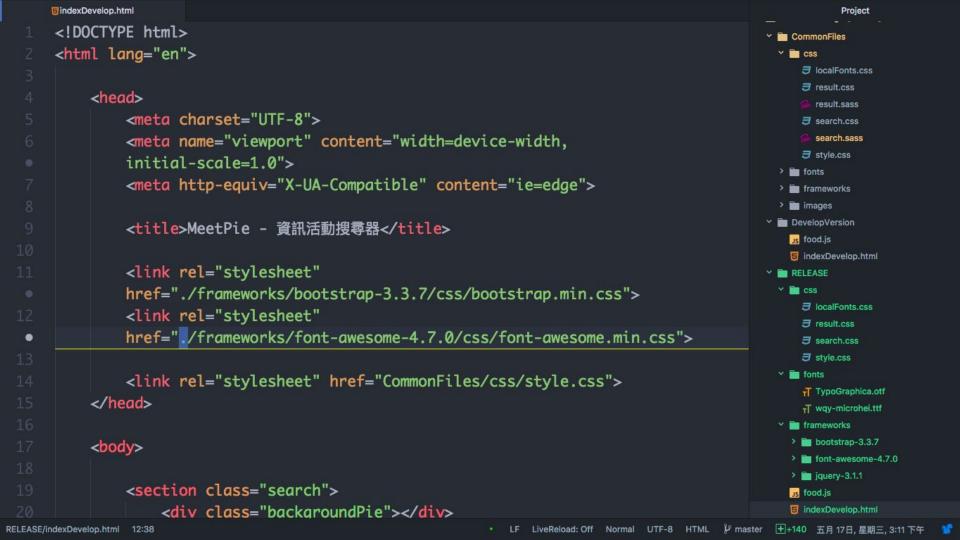
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Just use webpack

Just use webpack

And sleep at night...

Webpack feature#2 Task Runner(loader)

Manage and run all your preprocessor / transpilers

1. Add your SASS

```
1 // SCSS as Modules
2 var style_scssModule = require('./style.scss');
```

2. Add a loader

```
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                 IntegrateWorkflow(Webpack)/2. SCSS Transplie
                                                                   steps
                                                                          webpack
Hash: 7978cf1337d183810e5c
Version: webpack 2.5.1
Time: 758ms
                                            Chunks
                                      Size
                                                                       Chunk Names
                            Asset
            assets/background.jpg 43.4 kB
                                                     [emitted]
                  assets/cat.jpeg 1.17 MB
                                                     [emitted]
                                                               [big]
assets/fonts/AlexBrush-Regular.ttf
                                     49 kB
                                                     [emitted]
                         build.js 20 kB
                                                     [emitted]
                                                                      main
  [0] ./Develop/style.scss 1.33 kB {0}
                                                SASS compiled!
   [1] ./Develop/entry.js 92 bytes {0} [built]
       ./~/css-loader!/Users/AlxTz/~/resolve-url-loader!./~/sass-loader/lib/loader.
      ./~/css-loader/lib/css-base.js 2.26 kB {0} [built]
      ./Release/assets/background.jpg 67 bytes {0} [built]
      ./Release/assets/cat.jpeg 61 bytes {0} [built]
```

Same as Babel!

1. Add babel-loader

2. Run webpack

```
[24] ./~/raw-loader!./~/babel-loader/lib?{"presets":["es2015"]}
[] -> factory:778ms building:2019ms = 2797ms
```

Webpack feature#3 Builder(Bundler)

Build your Release Project!

1. Set build folder

```
entry: './Develop/entry.js',

output: {
    path: path.resolve(__dirname, ['Release']),
    filename: 'build.js'
},
```

2. Set image / font folder



