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# 史上最好用的编辑器：VSCode

- 最新版本：[v1.0](#)
- 更新时间：[20190529](#)

## 鸣谢

感谢我最爱的老婆陈雪的包容和支持，才使我 crifan 有更多精力去钻研技术和整理归纳出这些技术等电子书教程，特此鸣谢。

## 简介

介绍史上用过的最好用的编辑器 vscode，以及各种好用的功能，包括但不限于常用快捷键，调试Python，常用插件，搜索功能，包括正则搜索，文件编码，git仓库代码管理，各种主题字体和插件，强大好用的插件市场，代码格式化等等各种好用的功能，且性能优越。是目前最值得推荐的编辑器，没有之一。

## 源码+浏览+下载

本书的各种源码、在线浏览地址、多种格式文件下载如下：

### Gitbook源码

- [crifan/best\\_editor\\_vscode: 史上最好用的编辑器：VSCode](#)

### 如何使用此Gitbook源码去生成发布为电子书

详见：[crifan/gitbook\\_template: demo how to use crifan gitbook template and demo](#)

### 在线浏览

- [史上最好用的编辑器：VSCode book.crifan.com](#)
- [史上最好用的编辑器：VSCode crifan.github.io](#)

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- [史上最好用的编辑器：VSCode ePUB](#)
- [史上最好用的编辑器：VSCode Mobi](#)

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# VSCode简介

对于 代码编辑器 = Editor , IDE 来说，目前有很多种。

尤其是编辑器方面，自己之前也用过很多，比如：

- Win平台
  - Notepad2
  - Notepad++
    - = npp
  - 等等
- Mac平台
  - Atom
  - Sublime
  - 等等

除了Win平台中[Notepad++](#)还算不错外，其他很多都不够好用。

vsCode = Visual Studio Code , 是目前用过的最好用的、跨平台的、免费的、编辑器。

## 关于常见的编辑器和IDE的总结

详见：[编辑器和IDE总结](#)

# VSCode的优点

- 轻量级
- 界面美观
  - 代码高亮效果好
- 功能强大且易用
  - 除了 文本编辑器 该有的功能
  - 支持 插件：可以无限扩展额外功能
    - 加上很多插件，几乎可以实现很多复杂的，高级的IDE才能实现的功能
      - 比如 调试Python代码 等等
  - 本身内置支持 git
    - 便于代码版本管理
- 跨平台
  - 支持多种平台：
    - Windows
    - Mac
    - Linux
    - 等等

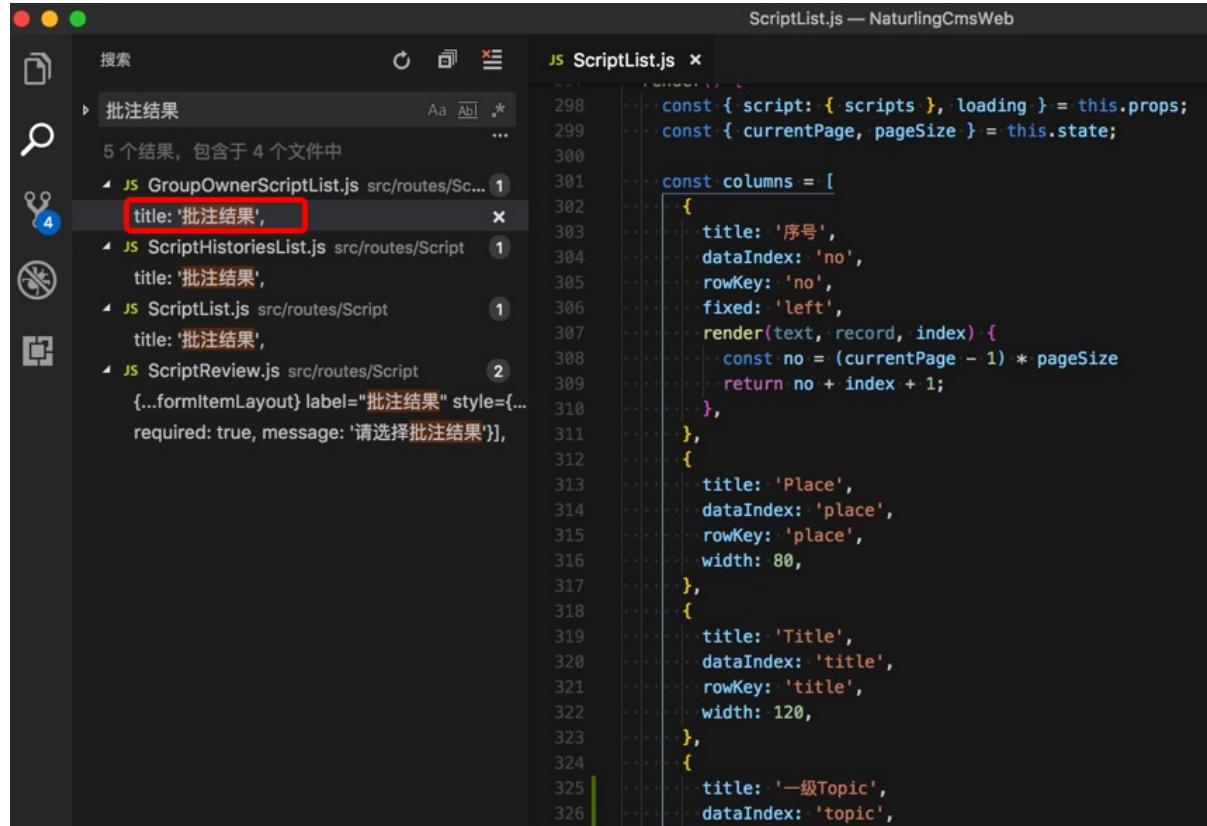
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# 界面布局

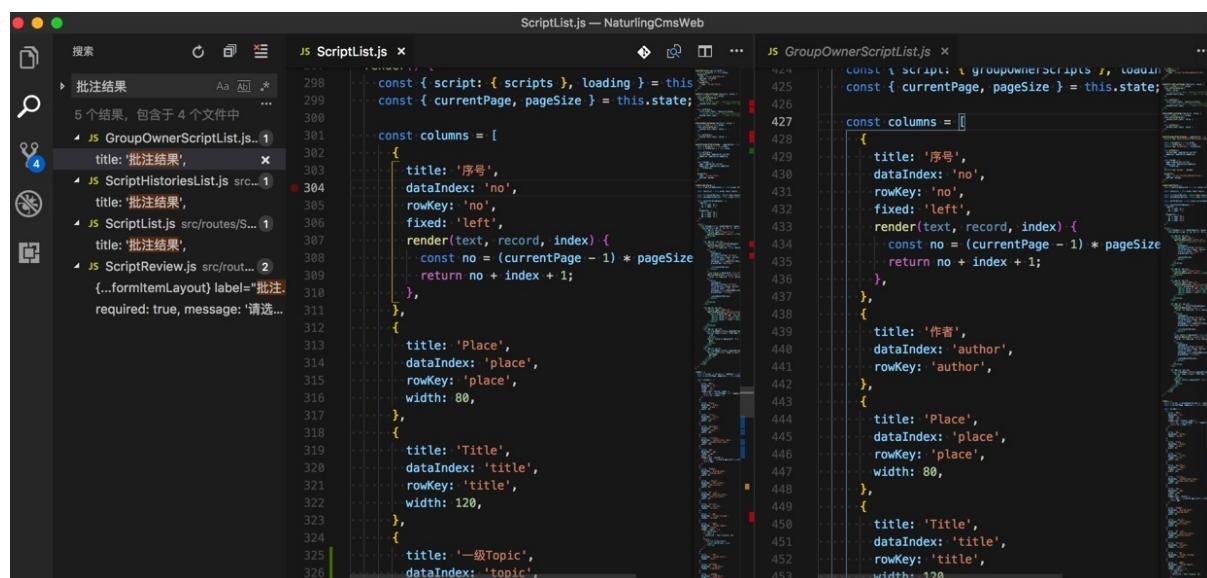
下面整理 VSCode 的界面和布局。

## 左右布局显示方便文件对比

在已经打开了一个文件：想要去和另外一个文件对比时， Command + 鼠标点击



即可把第二个文件放在右边，左右布局，便于对比2个文件的内容：



还是很方便的。

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# 常用快捷键

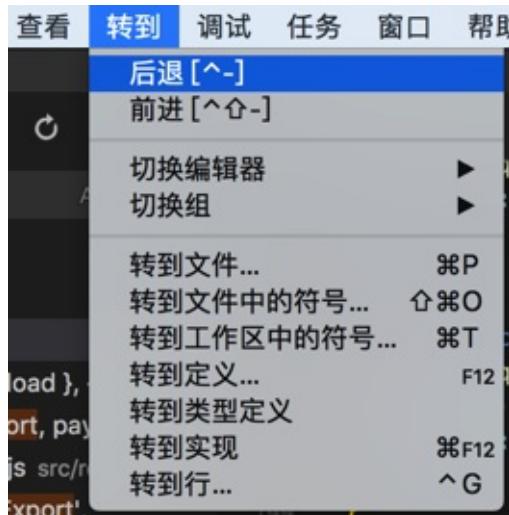
此处整理出 vscode 中最常用的一些快捷键，方便查询和使用。

## 常用的快捷键

### 光标位置移动

- 鼠标/光标返回之前的位置 = 上一个位置 = 前一个位置：
  - Mac : Control + -
- 鼠标/光标返回之后的位置
  - Mac : Shift + Control + -

后来也看到了工具栏中有显示快捷键：



### 大小写转换

默认是没有的，可以自己去设置。比如：

- Ctrl + Shift + l : 转为小写
  - l : 表示 lowercase
- Ctrl + Shift + u : 转为大写
  - u : 表示 uppercase

详见： [【已解决】VSCode中对选中内容切换大小写的快捷键](#)

## 如何找到某个功能的快捷键是什么

另外，可以去搜到自己要的快捷键是什么：



然后就可以通过搜短横线 - 就可以找到对应的快捷键的功能是 上一步 :

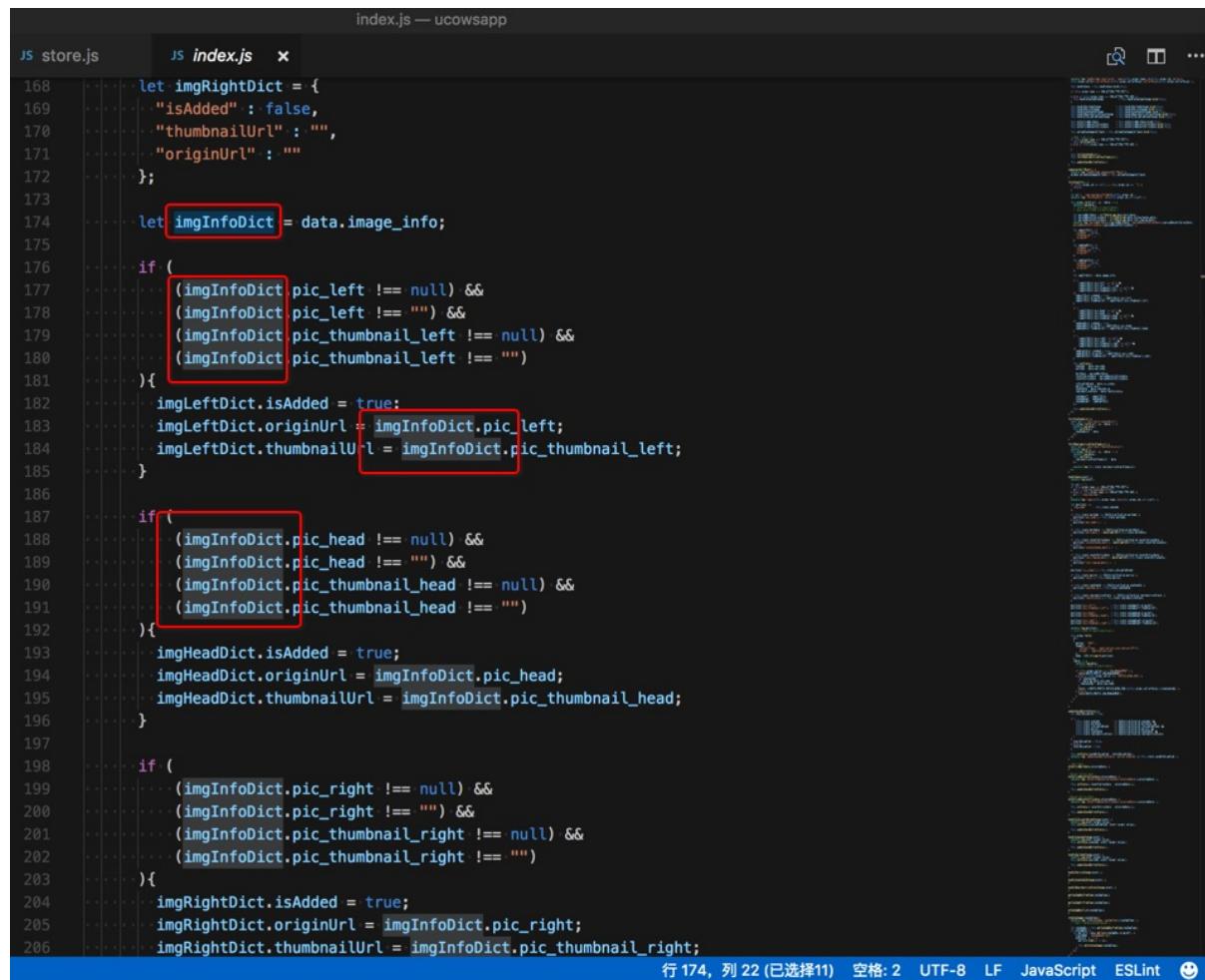
命令	键绑定	SOURCE	当
element-helper.search element-helper.searchUnderCursor	⌃ ⌘ Z	默认值	editorTextFocus
Markdown Preview Enhanced: Run All markdown-preview-enhanced.runAll	⌃ ⌉ Enter	默认值	editorLangId == 'markdown'
Markdown Preview Enhanced: Run Code markdown-preview-enhanced.runCode	⌃ ⌉ Enter	默认值	editorLangId == 'markdown'
Markdown Preview Enhanced: Sync P markdown-preview-enhanced.syncPr	⌃ ⌉ S	默认值	editorLangId == 'markdown'
Markdown: Markdown Preview Enhanced markdown-preview-enhanced.openPr	⌃ K V	默认值	editorLangId == 'markdown'
References: Find All References references-view.find	⌃ ⌉ F12	默认值	editorHasReferenceProvider
上一步	⌃ ⌉ ⌂	默认值	inQuickOpen
前进	⌃ ⌉ ⌂	默认值	—
后退	⌃ ⌉ ⌂	默认值	—
视图: 缩小	⌃ ⌉ ⌂	默认值	—
视图: 缩大	⌃ ⌉ ⌂	默认值	—

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# 代码编辑器常用功能

## 选中自动高亮

VSCode编辑器支持常见的，很方便的一个功能是：双击文字（变量），自动高亮其他部分的对应文字（变量）



The screenshot shows a code editor window for a file named 'index.js'. The code is part of a larger script, with several lines highlighted in red boxes. These highlights are centered around the variable 'imgInfoDict'. In line 174, 'imgInfoDict' is highlighted. In line 183, 'imgInfoDict.originUrl' and 'imgInfoDict.thumbnailUrl' are highlighted. In line 191, 'imgInfoDict.pic\_head' and 'imgInfoDict.pic\_thumbnail\_head' are highlighted. In line 205, 'imgInfoDict.pic\_right' and 'imgInfoDict.pic\_thumbnail\_right' are highlighted. The code itself is a series of if statements and assignments related to image dictionaries.

```

168     let imgRightDict = {
169         "isAdded" : false,
170         "thumbnailUrl" : "",
171         "originUrl" : ""
172     };
173
174     let imgInfoDict = data.image_info;
175
176     if (
177         (imgInfoDict.pic_left !== null) &&
178         (imgInfoDict.pic_left !== "") &&
179         (imgInfoDict.pic_thumbnail_left !== null) &&
180         (imgInfoDict.pic_thumbnail_left !== "")
181     ){
182         imgLeftDict.isAdded = true;
183         imgLeftDict.originUrl = imgInfoDict.pic_left;
184         imgLeftDict.thumbnailUrl = imgInfoDict.pic_thumbnail_left;
185     }
186
187     if (
188         (imgInfoDict.pic_head !== null) &&
189         (imgInfoDict.pic_head !== "") &&
190         (imgInfoDict.pic_thumbnail_head !== null) &&
191         (imgInfoDict.pic_thumbnail_head !== "")
192     ){
193         imgHeadDict.isAdded = true;
194         imgHeadDict.originUrl = imgInfoDict.pic_head;
195         imgHeadDict.thumbnailUrl = imgInfoDict.pic_thumbnail_head;
196     }
197
198     if (
199         (imgInfoDict.pic_right !== null) &&
200         (imgInfoDict.pic_right !== "") &&
201         (imgInfoDict.pic_thumbnail_right !== null) &&
202         (imgInfoDict.pic_thumbnail_right !== "")
203     ){
204         imgRightDict.isAdded = true;
205         imgRightDict.originUrl = imgInfoDict.pic_right;
206         imgRightDict.thumbnailUrl = imgInfoDict.pic_thumbnail_right;

```

-» 对于编写代码期间查看变量或函数的调用，很方便。

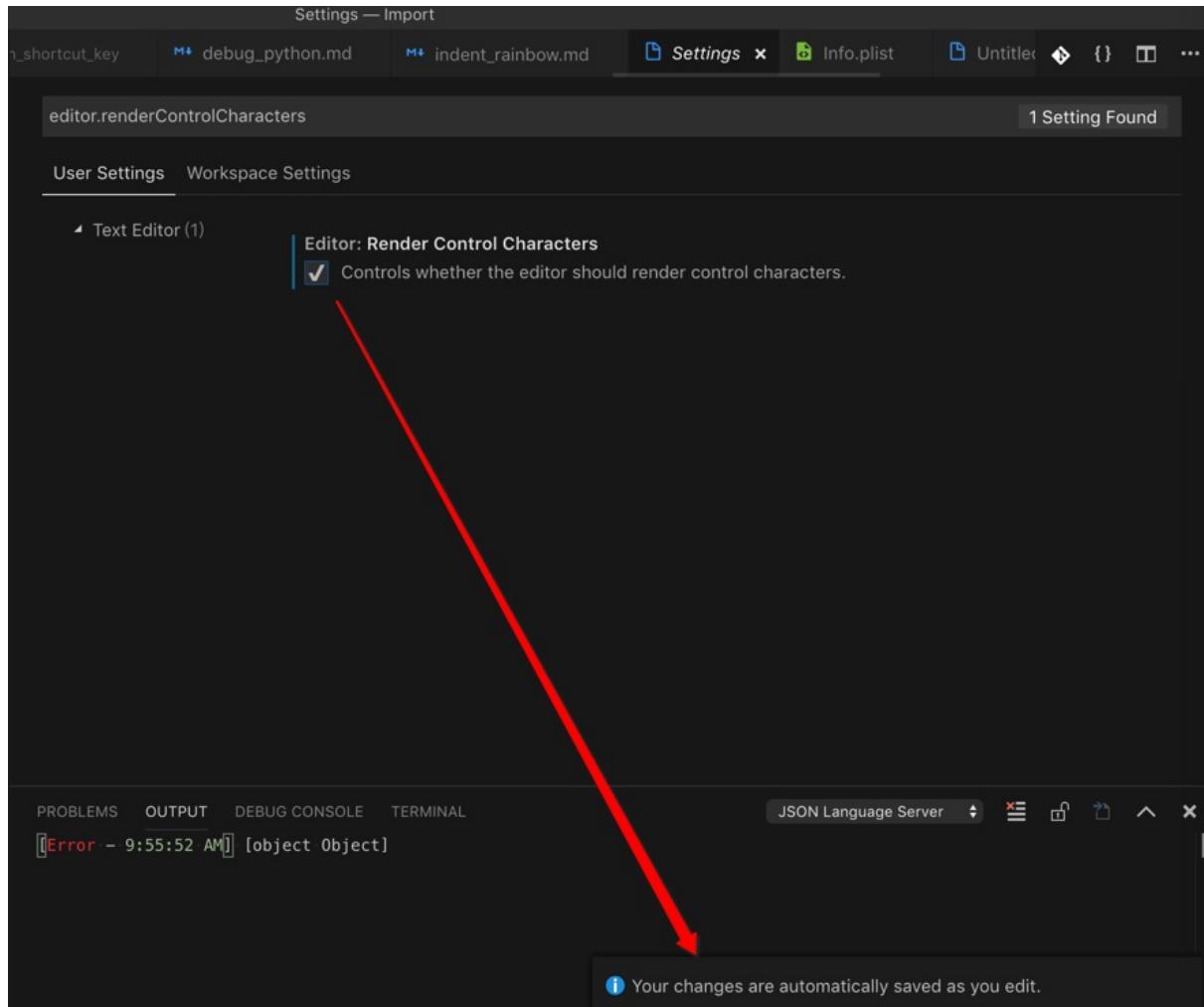
## 支持不同主题和字体

[【记录】VSCode试试其他主题和字体和插件](#)

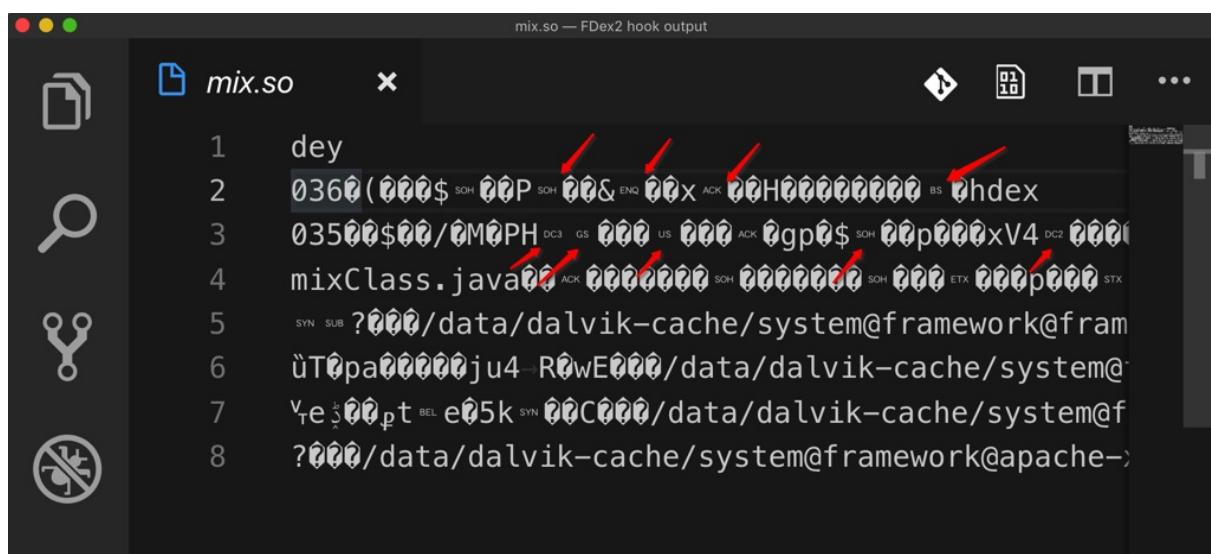
## 显示特殊的不可见的控制字符

设置显示控制字符：

Code -> 首选项 -> Settings -> 搜索 editor.renderControlCharacters -> 勾选： Editor: Render Control Characters 中的 Controls  
whether the editor should render control characters



效果：



详见：

【已解决】VSCode中显示特殊的不可见的控制字符

设置Tab的宽度=空格的个数

Code-》首选项-》设置-》点击：

```
// 一个制表符等于的空格数。该设置在 `editor.detectIndentation` 启用时根据文件内容进行重写。
"editor.tabSize": 4,
```

左边的编辑按钮 -》 复制到设置-》 把 4 改为 2 :

```
"editor.tabSize": 2
```

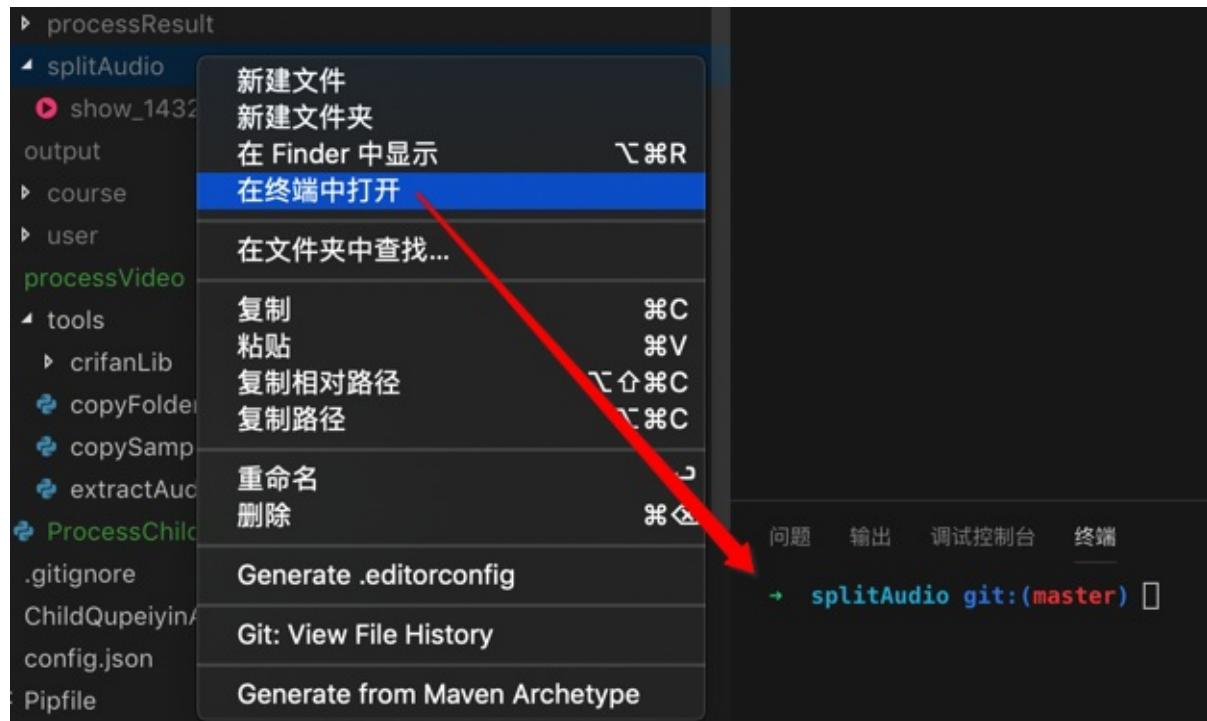
即可立刻生效：按Tab后，缩进就从4个空格的宽度，变成2个空格的宽度了。

详见：[【已解决】VSCode中如何设置Tab缩进为2个空格而不是4个空格的宽度](#)

## 其他方便好用的功能

### 快速在终端中打开文件夹

右键某文件夹 -》 在终端中打开



则可以直接快速调用内置终端打开对应文件夹，然后就可以继续在终端中做事情了，比如此处去用ffmpeg分割mp3。

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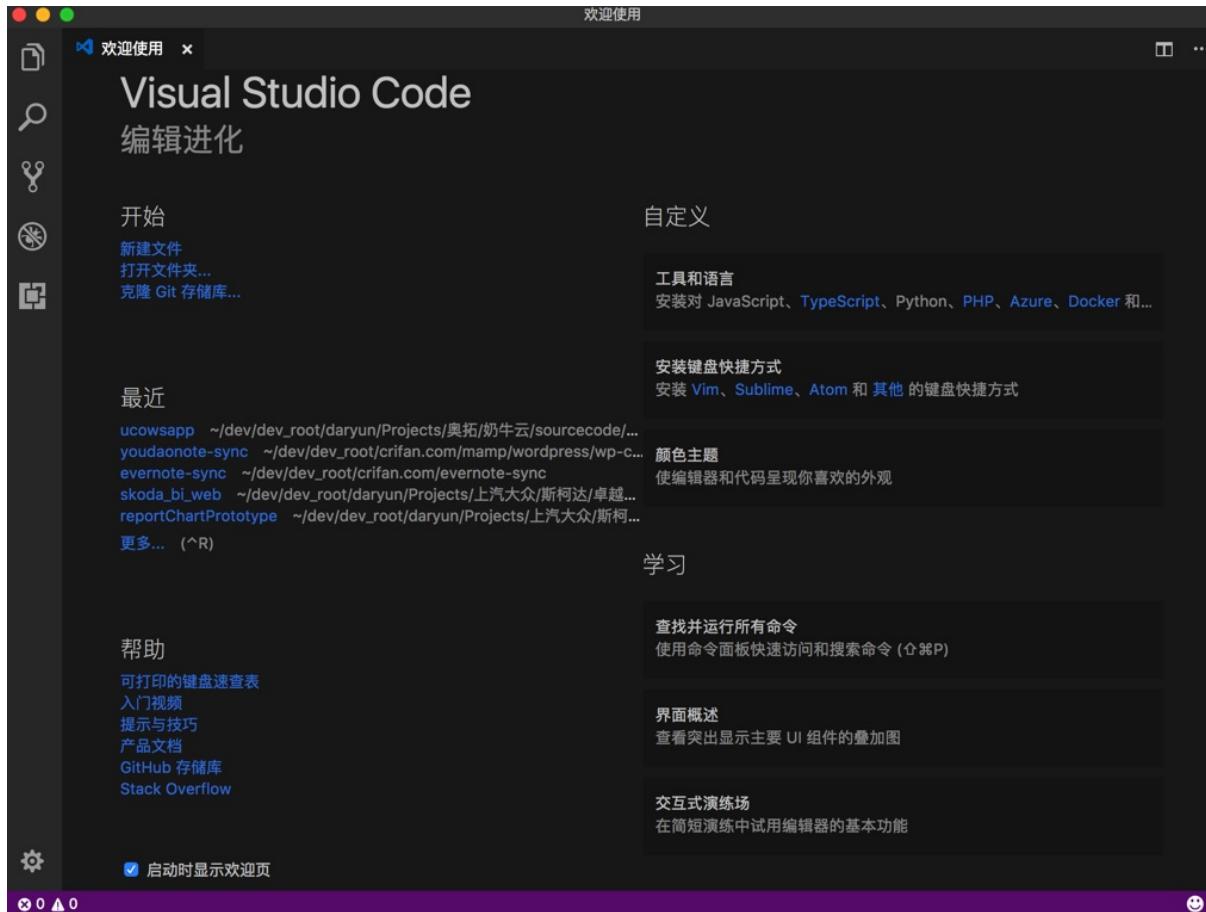
## 打开和新建项目

新建项目很方便

普通新建项目

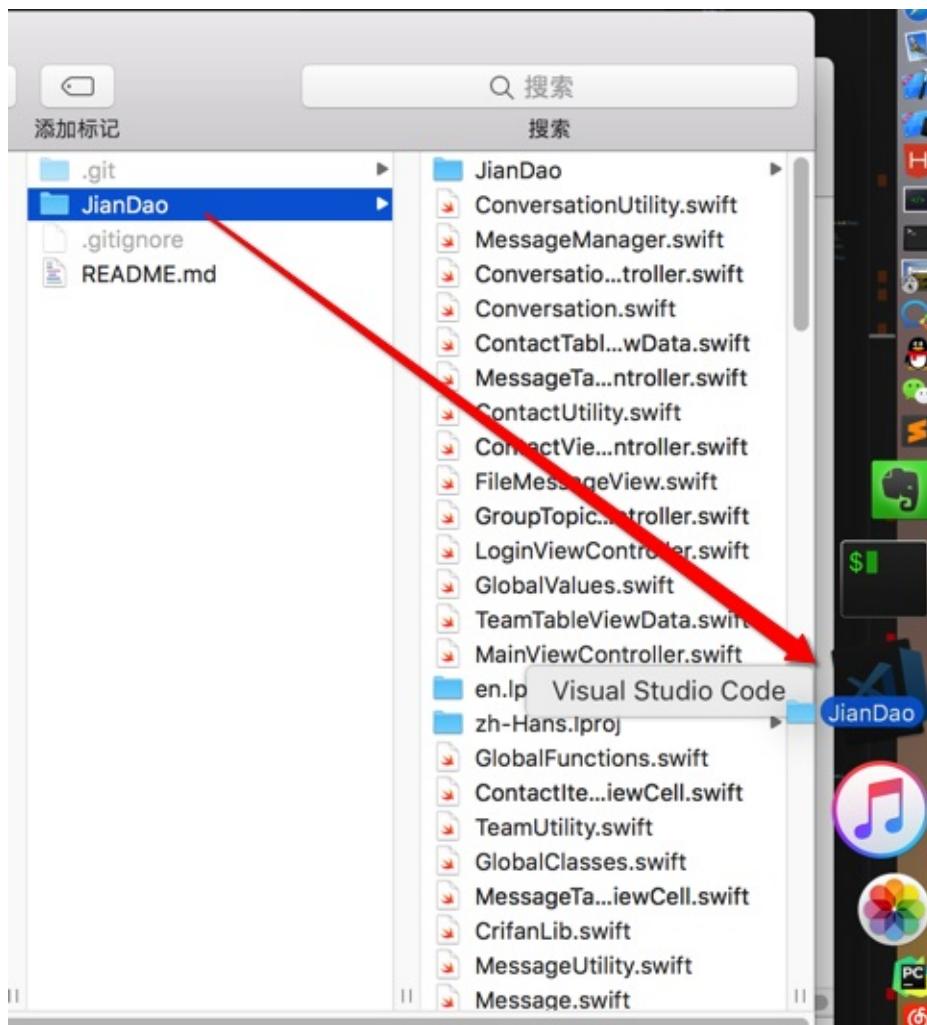


即可新建项目和窗口了：



## 直接拖动文件夹新建项目

另外，还支持，直接拖动文件到到VSCode图标，即可新建项目：



```

GlobalFunctions.swift — JianDao
150     curTimestampComputer = curTimestampComputerString(yyMMddHHmmss)
151 }
152 }
153
154 //    print("curTimestamp=(\(curTimestamp), today=(\($today))-> \(curTimestampComputer))")
155
156 return curTimestampStr
157 }
158
159 func removeBackSlash(inputStr:String) -> String {
160     return inputStr.replace("\\\\\"", to: "\\\"")
161 }
162
163
164 func storeUserAndPassword(user:String, password:String){
165     //method 1: store in plain text
166     //NSUserDefaults.standardUserDefaults().setValue(user, forKey: "user")
167     //NSUserDefaults.standardUserDefaults().setValue(password, forKey: "password")
168
169     //method 2: store to encryption info
170     if !user.isEmpty {
171         let saveUserOk: Bool = KeychainWrapper.setString(user, forKey: "user")
172         gLog.info("save user \(user) \((saveUserOk))")
173     }
174
175     if !password.isEmpty{
176         let savePasswordOk: Bool = KeychainWrapper.setString(password, forKey: "password")
177         gLog.info("save password \((savePasswordOk))")
178     }
179
180 }
181
182 func restoreUserAndPassword() -> (Bool, String?, String?) {
183     var restoreOk = false
184     var prevStoredUser:String?
185     var prevStoredPassword:String?
186
187     //    //method 1: get previous stored in plain text
188     //    let prevStoredUser = NSUserDefaults.standardUserDefaults().objectForKey("user") as? String
189     //    let prevStoredPassword = NSUserDefaults.standardUserDefaults().objectForKey("password") as? String
190
191     //    //method 2: get previous stored in encryption
192     //    let prevStoredUser = KeychainWrapper.string(forKey: "user")
193     //    let prevStoredPassword = KeychainWrapper.string(forKey: "password")
194
195     if prevStoredUser != nil {
196         restoreOk = true
197         prevStoredUser = prevStoredUser!
198     }
199
200     if prevStoredPassword != nil {
201         restoreOk = true
202         prevStoredPassword = prevStoredPassword!
203     }
204
205     return (restoreOk, prevStoredUser, prevStoredPassword)
206 }

```

非常方便 -》 用了后，就离开了。

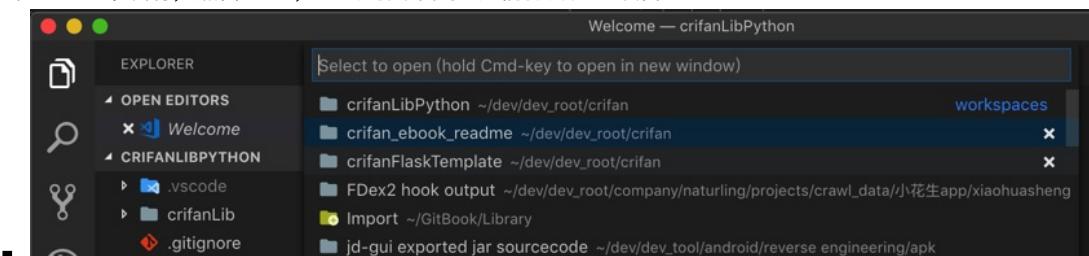
## 打开项目

打开之前曾打开过的项目，有多种方式：

- 从新建窗口中的 Recent中打开：

◦

- 如果Recent中没有，点击More，也会列出来更多之前打开过的项目：



- 文件->最近打开->选择某项目：

◦

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# 代码格式化

比如想要把一段超长的字符串，是json格式，想要格式化，便于查看内容。

先把字符串内容粘贴过去。默认的文件格式是 纯文本，所以去设置为 JSON

```

{
  "responseContext": {
    "service": "GFEEDBACK",
    "params": [
      {
        "key": "has_unlimited_entitlement",
        "value": "False"
      }
    ]
  }
}

```

然后再去右键-> 格式化文件

```

{
  "responseContext": {
    "service": "GFEEDBACK",
    "params": [
      {
        "key": "has_unlimited_entitlement",
        "value": "False"
      }
    ]
  }
}

```

或者：全选 -> 右键-> 格式化选定代码：

The screenshot shows a code editor window with a large JSON file named 'Untitled-1'. A context menu is open at the top right, with 'Format Document' highlighted. Other options visible include 'Format Selection', 'Format Paragraph', 'Format Word', 'Format Line', 'Format Character', and 'Format Block'.

```
{
  "responseContext": {
    "serviceTrackingParams": [
      {
        "service": "GFEEDBACK",
        "params": [
          {
            "key": "has_unlimited_entitlement",
            "value": "False"
          }
        ]
      }
    ]
  }
}
```

即可看到格式化后的，有了代码高亮，且带缩进的内容了：

The screenshot shows the same JSON file after being formatted. The code is now properly indented and color-coded, making it easier to read. The context menu is no longer open.

```
{
  "responseContext": {
    "serviceTrackingParams": [
      {
        "service": "GFEEDBACK",
        "params": [
          {
            "key": "has_unlimited_entitlement",
            "value": "False"
          }
        ]
      }
    ]
  }
}
```

然后可以方便的查看（搜索到的）内容：

The screenshot shows the search results for the string 'watch?'. The search bar at the top right contains 'watch?v=jchClt3DNxg'. Below the search bar, the results are listed as '第1个(共1个)'. The search results are shown as a list of lines from the JSON file where 'watch?' appears.

```
9898   "height": 188
9899 }
9900 },
9901   "lengthText": {
9902     "accessibility": {
9903       "accessibilityData": {
9904         "label": "6 minutes, 56 seconds"
9905       }
9906     },
9907     "simpleText": "6:56"
9908   },
9909   "indexText": {
9910     "simpleText": "12"
9911   },
9912   "selected": false,
9913   "navigationEndpoint": {
9914     "clickTrackingParams": "CGEQyCAYCCITCJuz57z5x9kCFUfLaAodBZELySj4HTIDQkZhSKvC2Lw8r9292wE=",
9915     "commandMetadata": {
9916       "webCommandMetadata": {
9917         "url": "/watch?v=jchClt3DNxg\u0026list=PLHOR8x-IicVJDAmJWZmJ-IMu1x3LTAlld5\u0026index=12",
9918         "webPageType": "WEB_PAGE_TYPE_WATCH"
9919       }
9920     }
9921 }
```



# 语法高亮

设置文件和代码的语法高亮：

对于未保存的文件时，需要设置文件类型-> 才能使得语法高亮生效

比如新建文件，粘贴html代码，此时代码无法自动高亮

```

1  <!DOCTYPE html>
2  <html>
3  <head>
4  <% for (var chunk in htmlWebpackPlugin.files.css) { %>
5  <link rel="preload" href="<%= htmlWebpackPlugin.files.css[chunk] %>" as="style">
6  <% } %>
7  <% for (var chunk in htmlWebpackPlugin.files.chunks) { %>
8  <link rel="preload" href="<%= htmlWebpackPlugin.files.chunks[chunk].entry %>" as="script">
9  <% } %>
10 <meta charset="utf-8">
11 <title>小牧童</title>
12 <meta name="viewport" content="width=device-width, height=device-height, initial-scale=1.0">
13 <meta name="description" content="小牧童">
14 <meta name="msapplication-TileColor" content="#673ab8">
15 <meta name="msapplication-TileImage" content="/uapp/assets/icons/mstile-150x150.png">
16 <meta name="apple-mobile-web-app-capable" content="yes">
17 <meta name="apple-mobile-web-app-status-bar-style" content="black-translucent">
18 <meta name="apple-mobile-web-app-title" content="小牧童">
19 <meta name="application-name" content="小牧童">
20 <meta name="format-detection" content="telephone=no">
21 <meta name="theme-color" content="#673ab8">
22 <link rel="apple-touch-icon" sizes="180x180" href="/uapp/assets/icons/apple-touch-icon.png">
23 <link rel="icon" type="image/png" href="/uapp/assets/icons/favicon-32x32.png" sizes="32x32">
24 <link rel="icon" type="image/png" href="/uapp/assets/icons/favicon-16x16.png" sizes="16x16">
25 <link rel="manifest" href="/uapp/manifest.json">
26 </head>
27 <body></body>
28 </html>
29 |

```

点击右下角的 纯文本，在弹出的语言列表中选择 HTML：

The screenshot shows a code editor interface with a dark theme. On the left is a sidebar titled "选择语言模式" (Select Language Mode) containing a list of file types with their corresponding icons: F# (fsharp), Git Commit Message (git-commit), Git Rebase Message (git-rebase), Gitignore (gitignore), Go (go), Groovy (groovy), HLSL (hlsl), HTML (html), Handlebars (handlebars), Ini (ini), JSON (json), Java (java), and JavaScript (javascript). The "Handlebars (handlebars)" option is highlighted with a red arrow pointing from the top-left towards it. The main editor area displays an HTML file named "define.js" with the following content:

```
15 <meta name="msapplication-tileimage" content="/uapp/assets/icons/mstile-150x150.png">
16 <meta name="apple-mobile-web-app-capable" content="yes">
17 <meta name="apple-mobile-web-status-bar-style" content="black-translucent">
18 <meta name="apple-mobile-web-app-title" content="小牧童">
19 <meta name="application-name" content="小牧童">
20 <meta name="format-detection" content="telephone=no">
21 <meta name="theme-color" content="#73ab8b">
22 <link rel="apple-touch-icon" sizes="180x180"
      href="/uapp/assets/icons/apple-touch-icon.png">
23 <link rel="icon" type="image/png" href="/uapp/assets/icons/favicon-32x32.png"
      sizes="32x32">
24 <link rel="icon" type="image/png" href="/uapp/assets/icons/favicon-16x16.png"
      sizes="16x16">
25 <link rel="manifest" href="/uapp/manifest.json">
26 </head>
27 <body></body>
28 </html>
```

At the bottom right of the editor, there is a status bar displaying "行 29, 列 1 空格: 2 UTF-8 LF 纯文本 😊".

即可看到HTML代码高亮的效果了：

```

1  <!DOCTYPE html>
2  <html>
3  <head>
4  <% for (var chunk in htmlWebpackPlugin.files.css) { %>
5  <link rel="preload" href="<%= htmlWebpackPlugin.files.css[chunk] %>" as="style">
6  <% } %>
7  <% for (var chunk in htmlWebpackPlugin.files.chunks) { %>
8  <link rel="preload" href="<%= htmlWebpackPlugin.files.chunks[chunk].entry %>" as="script">
9  <% } %>
10 <meta charset="utf-8">
11 <title>小牧童</title>
12 <meta name="viewport" content="width=device-width, height=device-height, initial-scale=1.0">
13 <meta name="description" content="小牧童">
14 <meta name="msapplication-TileColor" content="#673ab8">
15 <meta name="msapplication-TileImage" content="/uapp/assets/icons/mstile-150x150.png">
16 <meta name="apple-mobile-web-app-capable" content="yes">
17 <meta name="apple-mobile-web-app-status-bar-style" content="black-translucent">
18 <meta name="apple-mobile-web-app-title" content="小牧童">
19 <meta name="application-name" content="小牧童">
20 <meta name="format-detection" content="telephone=no">
21 <meta name="theme-color" content="#673ab8">
22 <link rel="apple-touch-icon" sizes="180x180" href="/uapp/assets/icons/apple-touch-icon.png">
23 <link rel="icon" type="image/png" href="/uapp/assets/icons/favicon-32x32.png" sizes="32x32">
24 <link rel="icon" type="image/png" href="/uapp/assets/icons/favicon-16x16.png" sizes="16x16">
25 <link rel="manifest" href="/uapp/manifest.json">
26 </head>
27 <body></body>
28 </html>
29

```

行 29, 列 1 空格: 2 UTF-8 LF HTML

## 支持log类型的语法高亮

无意间发现，VSCode连log格式，都可以支持，都可以语法高亮：

The screenshot shows the Apache error log viewer within the MAMP application. The left sidebar displays a file tree with various log files like apache\_error.log, cloud.log, mysql\_error\_log.err, and php\_error.log. The main pane shows the contents of the apache\_error.log file, which contains numerous log entries with timestamp, level, and message. The text is color-coded for syntax highlighting, such as blue for file paths and red for error levels. A red arrow points from the text area towards the bottom right corner of the window.

```

apache_error.log — MAMP
[Sun Apr 29 11:27:44 2018] [notice] FastCGI: process manager initialized (pid 2586)
[Sun Apr 29 11:27:44 2018] [notice] Apache/2.2.32 (Unix) mod_wsgi/3.5 Python/2.7.13 PHP/7.1.6 mod_ss
[Mon Apr 30 15:13:27 2018] [notice] caught SIGTERM, shutting down
[Fri Jun 22 21:57:11 2018] [notice] Digest: generating secret for digest authentication ...
[Fri Jun 22 21:57:11 2018] [notice] Digest: done
[Fri Jun 22 21:57:11 2018] [notice] FastCGI: process manager initialized (pid 47606)
[Fri Jun 22 21:57:11 2018] [notice] Apache/2.2.32 (Unix) mod_wsgi/3.5 Python/2.7.13 PHP/7.1.6 mod_ss
[Fri Jun 22 21:57:28 2018] [error] [client ::1] File does not exist: /Users/crifan/dev/dev_root/crif
[Fri Jun 22 21:57:28 2018] [error] [client ::1] File does not exist: /Users/crifan/dev/dev_root/crif
[Fri Jun 22 21:57:28 2018] [error] [client ::1] File does not exist: /Users/crifan/dev/dev_root/crif
[Fri Jun 22 21:57:28 2018] [error] [client ::1] File does not exist: /Users/crifan/dev/dev_root/crif
[Fri Jun 22 21:57:28 2018] [error] [client ::1] File does not exist: /Applications/MAMP/bin/mamp/far
[Fri Jun 22 22:12:15 2018] [notice] caught SIGTERM, shutting down
[Fri Jun 22 22:18:56 2018] [notice] Digest: generating secret for digest authentication ...
[Fri Jun 22 22:18:56 2018] [notice] Digest: done
[Fri Jun 22 22:18:56 2018] [notice] FastCGI: process manager initialized (pid 48973)
[Fri Jun 22 22:18:56 2018] [notice] Apache/2.2.32 (Unix) mod_wsgi/3.5 Python/2.7.13 PHP/7.1.6 mod_ss
[Fri Jun 22 22:49:57 2018] [error] [client ::1] client denied by server configuration: /Users/crifan
[Sat Jun 23 12:06:59 2018] [error] [client ::1] client denied by server configuration: /Users/crifan
[Sat Jun 23 12:18:33 2018] [error] [client ::1] client denied by server configuration: /Users/crifan
[Sat Jun 23 12:24:22 2018] [error] [client ::1] client denied by server configuration: /Users/crifan
[Thu Jun 28 20:53:34 2018] [notice] Digest: generating secret for digest authentication ...
[Thu Jun 28 20:53:34 2018] [notice] Digest: done
[Thu Jun 28 20:53:34 2018] [notice] FastCGI: process manager initialized (pid 30197)
[Thu Jun 28 20:53:34 2018] [notice] Apache/2.2.32 (Unix) mod_wsgi/3.5 Python/2.7.13 PHP/7.1.6 mod_ss
[Thu Jun 28 20:53:42 2018] [error] [client ::1] File does not exist: /Users/crifan/dev/dev_root/crif
[Thu Jun 28 20:53:42 2018] [error] [client ::1] File does not exist: /Users/crifan/dev/dev_root/crif
[Thu Jun 28 20:53:42 2018] [error] [client ::1] File does not exist: /Users/crifan/dev/dev_root/crif
[Thu Jun 28 20:53:51 2018] [error] [client ::1] File does not exist: /Users/crifan/dev/dev_root/crif
[Thu Jun 28 20:54:05 2018] [error] [client ::1] client denied by server configuration: /Users/crifan
[Thu Jun 28 21:10:34 2018] [error] [client ::1] File does not exist: /Applications/MAMP/bin/mamp/wp_

```

很是方便查看内容。

另外一个截图：

The screenshot shows a terminal window or an IDE editor displaying a log file named development.log. The file contains several log entries with different levels (DEBUG, ERROR) and timestamps. The text is color-coded for syntax highlighting, with blue for file paths and red for error levels. A red arrow points from the text area towards the bottom right corner of the window.

```

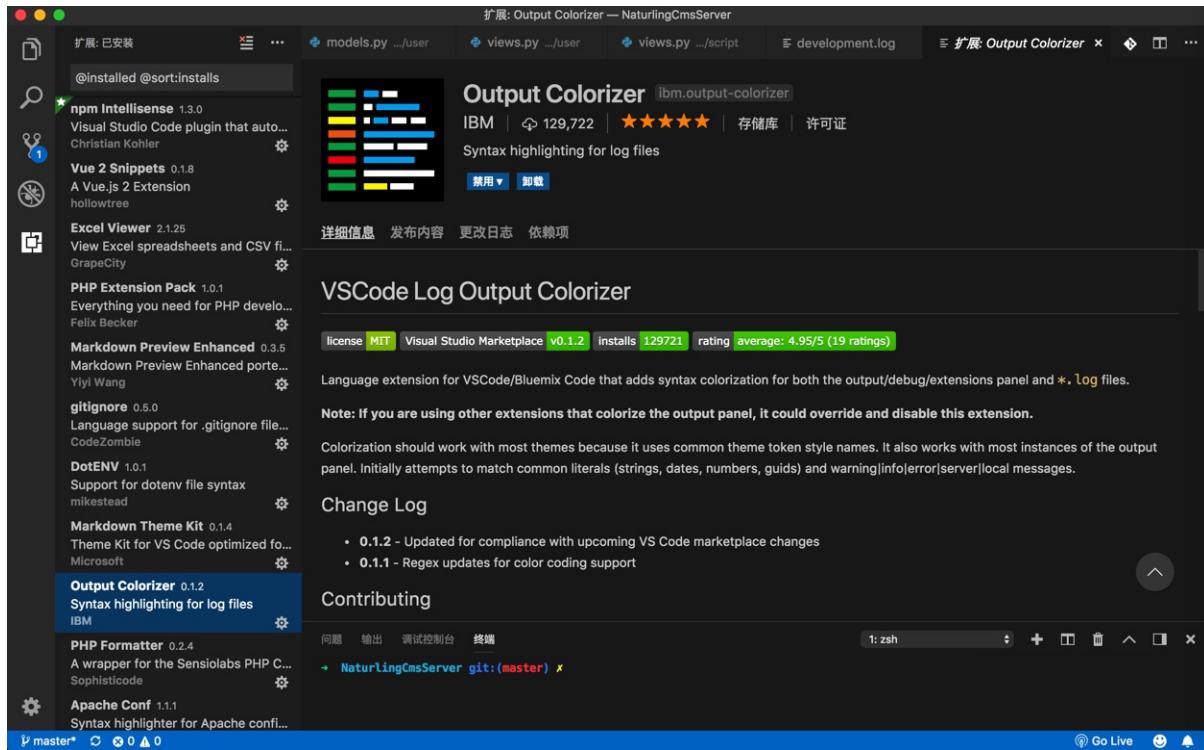
development.log — NaturlingCmsServer
DEBUG 2018-07-09 15:17:28,015 utils 9314 123145337683968 (0.001) SET SESSION TRANSACTION ISOLATION LEVEL
DEBUG 2018-07-09 15:17:28,017 utils 9314 123145337683968 (0.002) SELECT `user_user`.`password`, `user_use
ERROR 2018-07-09 15:17:28,164 exception 9314 123145337683968 Internal Server Error: /api/v1/jwt-token-aut
Traceback (most recent call last):
  File "/usr/local/lib/python3.6/site-packages/django/core/handlers/exception.py", line 35, in inner
    response = get_response(request)
  File "/usr/local/lib/python3.6/site-packages/django/core/handlers/base.py", line 158, in _get_response
    response = self.process_exception_by_middleware(e, request)
  File "/usr/local/lib/python3.6/site-packages/django/core/handlers/base.py", line 156, in _get_response
    response = response.render()
  File "/usr/local/lib/python3.6/site-packages/django/template/response.py", line 106, in render
    self.content = self.rendered_content
  File "/usr/local/lib/python3.6/site-packages/rest_framework/response.py", line 72, in rendered_content
    ret = renderer.render(self.data, accepted_media_type, context)
  File "/usr/local/lib/python3.6/site-packages/rest_framework/renderers.py", line 105, in render
    allow_nan=not self.strict, separators=separators
  File "/usr/local/lib/python3.6/site-packages/rest_framework/utils/json.py", line 28, in dumps
    return json.dumps(*args, **kwargs)
  File "/usr/local/Cellar/python/3.6.4_4/Frameworks/Python.framework/Versions/3.6/lib/python3.6/json/_in
  **kw).encode(obj)
  File "/usr/local/Cellar/python/3.6.4_4/Frameworks/Python.framework/Versions/3.6/lib/python3.6/json/encod
  chunks = self._iterencode(o, _one_shot=True)
  File "/usr/local/Cellar/python/3.6.4_4/Frameworks/Python.framework/Versions/3.6/lib/python3.6/json/encod
  return _iterencode(o, 0)
  File "/usr/local/lib/python3.6/site-packages/rest_framework/utils/encoders.py", line 68, in default
    return super(JSONEncoder, self).default(obj)
  File "/usr/local/Cellar/python/3.6.4_4/Frameworks/Python.framework/Versions/3.6/lib/python3.6/json/encod
  o.__class__.__name__)
37  TypeError: Object of type 'User' is not JSON serializable
38  ERROR 2018-07-09 15:17:28,173 exception 9314 123145337683968 Internal Server Error: /api/v1/jwt-token-aut

```

-》后来不知道为何突然log文件丢失语法高亮了

所以又去找了个插件：

[Output Colorizer](#)



安装后，效果也很不错：

```
development.log — NaturlingCmsServer
models.py .../user views.py .../user views.py .../script development.log 扩展: Output Colorizer ...
4902 DEBUG|20180810 15:08:34|utils:execute:111|(0.000) SELECT `script_history`.`created_at`, `script_history`...
4903 INFO|20180810 15:08:34|views:list:167|history=History object (c0d1140d-5043-44f4-a1c7-7486f1b0639c)
4904 DEBUG|20180810 15:08:34|utils:execute:111|(0.000) SELECT `script_script`.`created_at`, `script_script`...
4905 INFO|20180810 15:08:34|views:list:169|orderedScriptAllHistory=<QuerySet [<Script: cooking the salad>]>
4906 DEBUG|20180810 15:08:34|utils:execute:111|(0.000) SELECT `script_script`.`created_at`, `script_script`...
4907 INFO|20180810 15:08:34|views:list:171|lastHistory=cooking the salad
4908 INFO|20180810 15:08:34|views:list:165|===[518] eachHistoryId=8337f985-d113-473f-9bd3-2312c6dc1726
4909 DEBUG|20180810 15:08:34|utils:execute:111|(0.000) SELECT `script_history`.`created_at`, `script_history`...
4910 INFO|20180810 15:08:34|views:list:167|history=History object (8337f985-d113-473f-9bd3-2312c6dc1726)
4911 DEBUG|20180810 15:08:34|utils:execute:111|(0.001) SELECT `script_script`.`created_at`, `script_script`...
4912 INFO|20180810 15:08:34|views:list:169|orderedScriptAllHistory=<QuerySet [<Script: vincent>]>
4913 DEBUG|20180810 15:08:34|utils:execute:111|(0.000) SELECT `script_script`.`created_at`, `script_script`...
4914 INFO|20180810 15:08:34|views:list:171|lastHistory=vincent
4915 INFO|20180810 15:08:34|views:list:174|result=[UUID('cb54d47d-6e9c-4ec2-8666-eb97df30e654'), UUID('493039...
4916 INFO|20180810 15:08:34|views:list:176|resultLen=519
4917 DEBUG|20180810 15:08:34|utils:execute:111|(0.006) SELECT `script_script`.`created_at`, `script_script`...
4918 INFO|20180810 15:08:34|views:list:179|queryset=<QuerySet [<Script: play body>, <Script: crifan测试0810143...
4919 DEBUG|20180810 15:08:34|utils:execute:111|(0.005) SELECT COUNT(*) AS `__count` FROM `script_script` WHERE ...
4920 DEBUG|20180810 15:08:34|utils:execute:111|(0.006) SELECT `script_script`.`created_at`, `script_script`...
4921 INFO|20180810 15:08:34|views:list:181|page=[<Script: play body>, <Script: crifan测试08101432>, <Script: 0...
4922 DEBUG|20180810 15:08:34|utils:execute:111|(0.012) SELECT `script_script`.`created_at`, `script_script`...
4923 INFO|20180810 15:08:34|views:list:184|after ScriptSerializer serializer=ScriptSerializer(<QuerySet [<Scr...
4924     ...id = UUIDField(read_only=True)
4925     ...place = CharField(max_length=128)
4926     ...title = CharField(max_length=128)
4927     ...topic = CharField(read_only=False, source='topic.name')
4928     ...second_level_topic = SerializerMethodField()
4929     ...age_start = IntegerField(max_value=2147483647, min_value=-2147483648, required=False)
4930     ...version = IntegerField(read_only=True)
4931     ...age_end = IntegerField(max_value=2147483647, min_value=-2147483648, required=False)
4932     ...author = CharField(read_only=True, source='author.username')
4933     ...joinedScriptGroup = ScriptFuctionGroup(source='author')
4934     ...nublish status = SerializerMethodField()

问题 输出 调试控制台 终端 1: zsh + □ 首 ^ ▲ ▼ ×
+ NaturlingCmsServer git:(master) x
@ Go Live 行 4927, 列 60 空格: 4 UTF-8 LF log 🎉 🔔
```

crifan.com, 使用[知识署名-相同方式共享4.0协议](#)发布 all right reserved, powered by Gitbook该文件修订时间: 2019-03-17 23:12:20

# 文件编码

支持文件编码格式自动检测

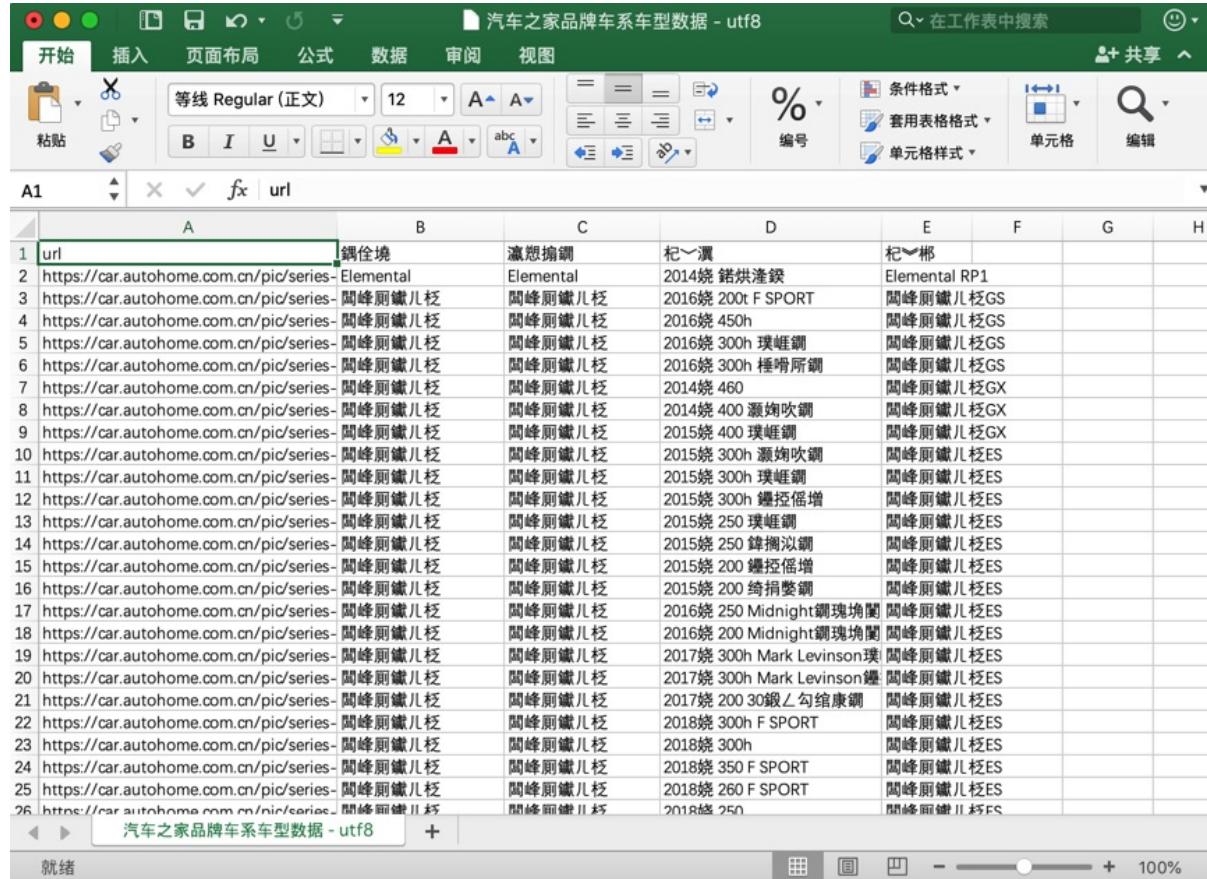
且可以更改编码重新保存。

## VSCode中文件编码应用案例

把utf-8编码转换为gb18030使得Mac中Excel打开csv不再乱码

比如之前遇到过的：

已有一个 utf-8 编码的csv文件，但是mac中用Excel打开，竟然乱码：



The screenshot shows a Microsoft Excel spreadsheet titled "汽车之家品牌车系车型数据 - utf8". The data consists of several columns: A (url), B (车名), C (年份), D (发动机), E (变速箱), F, G, and H. The first few rows of data are as follows:

	A	B	C	D	E	F	G	H
1	url	鋼鉄境	瀛懶擔鋼	杞～灝	杞～郴			
2	https://car.autohome.com.cn/pic/series- Elemental	Elemental	2014燒 錫烘達鋼	2014燒 RP1				
3	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2016燒 200t F SPORT	閻峰耐鐵儿枝GS				
4	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2016燒 450h	閻峰耐鐵儿枝GS				
5	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2016燒 300h 璞唯鋼	閻峰耐鐵儿枝GS				
6	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2016燒 300h 檳榔所鋼	閻峰耐鐵儿枝GS				
7	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2014燒 460	閻峰耐鐵儿枝GX				
8	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2014燒 400 瀛珣吹鋼	閻峰耐鐵儿枝GX				
9	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2015燒 400 璞唯鋼	閻峰耐鐵儿枝GX				
10	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2015燒 300h 瀛珣吹鋼	閻峰耐鐵儿枝ES				
11	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2015燒 300h 璞唯鋼	閻峰耐鐵儿枝ES				
12	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2015燒 300h 鐵控僵增	閻峰耐鐵儿枝ES				
13	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2015燒 250 璞唯鋼	閻峰耐鐵儿枝ES				
14	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2015燒 250 鑄拗冰鋼	閻峰耐鐵儿枝ES				
15	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2015燒 200 鐵控僵增	閻峰耐鐵儿枝ES				
16	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2015燒 200 錫捐整鋼	閻峰耐鐵儿枝ES				
17	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2016燒 250 Midnight鋼塊燒閨	閻峰耐鐵儿枝ES				
18	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2016燒 200 Midnight鋼塊燒閨	閻峰耐鐵儿枝ES				
19	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2017燒 300h Mark Levinson鋼	閻峰耐鐵儿枝ES				
20	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2017燒 300h Mark Levinson鐵	閻峰耐鐵儿枝ES				
21	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2017燒 200 30鍍Z勾鉛康鋼	閻峰耐鐵儿枝ES				
22	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2018燒 300h F SPORT	閻峰耐鐵儿枝ES				
23	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2018燒 300h	閻峰耐鐵儿枝ES				
24	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2018燒 350 F SPORT	閻峰耐鐵儿枝ES				
25	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2018燒 260 F SPORT	閻峰耐鐵儿枝ES				
26	https://car.autohome.com.cn/pic/series- 閻峰耐鐵儿枝	閻峰耐鐵儿枝	2018燒 250	閻峰耐鐵儿枝ES				

然后去用VSCode打开后，点击右下角的编码，选择 Save with Encoding：

汽车之家品牌车系车型数据 - utf8.csv — Import

Select Action

- Reopen with Encoding
- Reopen with Encoding
- Save with Encoding
- Save with Encoding**

0	Elemental,Elemental,2014款 基本
1	克萨斯,雷克萨斯,2016款 200t F SI
2	克萨斯,雷克萨斯,2016款 450h,雷克
3	克萨斯,雷克萨斯,2016款 300h 豪华
4	克萨斯,雷克萨斯,2016款 300h 领先
5	https://car.autohome.com.cn/pic/series-s23753/2017.html#pvareaid=2042220
6	https://car.autohome.com.cn/pic/series-s16768/112.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2014款 460,雷克萨
7	https://car.autohome.com.cn/pic/series-s17019/112.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2014款 400 尊贵版
8	https://car.autohome.com.cn/pic/series-s25071/112.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2015款 400 豪华版
9	https://car.autohome.com.cn/pic/series-s22573/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2015款 300h 尊贵
10	https://car.autohome.com.cn/pic/series-s23362/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2015款 300h 豪华
11	https://car.autohome.com.cn/pic/series-s23361/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2015款 300h 舒适
12	https://car.autohome.com.cn/pic/series-s23360/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2015款 250 豪华版
13	https://car.autohome.com.cn/pic/series-s23359/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2015款 250 典雅版
14	https://car.autohome.com.cn/pic/series-s22601/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2015款 200 舒适版
15	https://car.autohome.com.cn/pic/series-s23358/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2015款 200 精英版
16	https://car.autohome.com.cn/pic/series-s24897/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2016款 250 Midn
17	https://car.autohome.com.cn/pic/series-s24892/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2016款 200 Midn
18	https://car.autohome.com.cn/pic/series-s31975/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2017款 300h Mar
19	https://car.autohome.com.cn/pic/series-s31976/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2017款 300h Mar
20	https://car.autohome.com.cn/pic/series-s31752/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2017款 200 30周年
21	https://car.autohome.com.cn/pic/series-s34545/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2018款 300h F SI
22	https://car.autohome.com.cn/pic/series-s34548/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2018款 300h,雷克
23	https://car.autohome.com.cn/pic/series-s34544/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2018款 350 F SP
24	https://car.autohome.com.cn/pic/series-s34371/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2018款 260 F SP
25	https://car.autohome.com.cn/pic/series-s34543/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2018款 250.雷克萨
26	https://car.autohome.com.cn/pic/series-s34543/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2018款 250.雷克萨

PROBLEMS 5 OUTPUT DEBUG CONSOLE TERMINAL 1: make

```
debug: index page appendix/README.md
debug: generate page "appendix/reference.md"
debug: calling hook "page:before"
debug: calling hook "page"
debug: index page appendix/reference.md
debug: calling hook "finish:before"
debug: calling hook "finish"
debug: write search index
finish!
info: >> generation finished with success in 22.8s !

Starting server ...
Serving book on http://localhost:4000

```

Go Live Ln 1, Col 1 Spaces: 2 UTF-8 CRLF CSV 1016x744 162.00KB 3 3

选择中文的（比 GBK 范畴更广的）GB18030：

汽车之家品牌车系车型数据 - utf8.csv — Import

Select File Encoding to Save with

Estonian (ISO 8859-13) iso885913  
Greek (Windows 1253) windows1253  
Greek (ISO 8859-7) iso88597  
Hebrew (Windows 1255) windows1255  
Hebrew (ISO 8859-8) iso88598  
Nordic (ISO 8859-10) iso885910  
Romanian (ISO 8859-16) iso885916  
Turkish (Windows 1254) windows1254  
Turkish (ISO 8859-9) iso88599  
Vietnamese (Windows 1258) windows1258  
Simplified Chinese (GBK) gbk  
**Simplified Chinese (GB18030) gb18030**  
Traditional Chinese (Big5) cp950  
Traditional Chinese (Big5-HKSCS) big5hkscs  
Japanese (Shift JIS) shiftjis  
Japanese (EUC-JP) eucjp  
Korean (EUC-KR) euckr  
Thai (Windows 874) windows874  
Latin/Thai (ISO 8859-11) iso885911  
Cyrillic (KOI8-RU) koi8ru

PROBLEMS 5 OUTPUT DEBUG CONSOLE TERMINAL

```
debug: index page appendix/README.md
debug: generate page "appendix/reference.md"
debug: calling hook "page:before"
debug: calling hook "page"
debug: index page appendix/reference.md
debug: calling hook "finish:before"
debug: calling hook "finish"
debug: write search index
finish!
info: >> generation finished with success in 22.8s !

Starting server ...
Serving book on http://localhost:4000

```

重新保存后，再去用Mac中Excel打开，就正常显示没有乱码了：

	A	B	C	D	E
1	url	品牌	子品牌	车型	车系
2	https://car.autohome.com.cn/pic/series-s19501/3548.html#pvareaid=2042220	Elemental	Elemental	2014款 基本型	Elemental RP1
3	https://car.autohome.com.cn/pic/series-s23525/261.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2016款 200 F SPORT	雷克萨斯GS
4	https://car.autohome.com.cn/pic/series-s24494/261.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2016款 450h	雷克萨斯GS
5	https://car.autohome.com.cn/pic/series-s25734/261.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2016款 300 豪华版	雷克萨斯GS
6	https://car.autohome.com.cn/pic/series-s25733/261.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2016款 300h 领先版	雷克萨斯GS
7	https://car.autohome.com.cn/pic/series-s16768/112.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2014款 460	雷克萨斯GX
8	https://car.autohome.com.cn/pic/series-s17019/112.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2014款 400 尊贵版	雷克萨斯GX
9	https://car.autohome.com.cn/pic/series-s25071/112.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2015款 400 豪华版	雷克萨斯GX
10	https://car.autohome.com.cn/pic/series-s22573/403.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2015款 300h 尊贵版	雷克萨斯ES
11	https://car.autohome.com.cn/pic/series-s23362/403.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2015款 300h 豪华版	雷克萨斯ES
12	https://car.autohome.com.cn/pic/series-s23361/403.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2015款 300h 舒适版	雷克萨斯ES
13	https://car.autohome.com.cn/pic/series-s23360/403.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2015款 250 豪华版	雷克萨斯ES
14	https://car.autohome.com.cn/pic/series-s23359/403.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2015款 250 典雅版	雷克萨斯ES
15	https://car.autohome.com.cn/pic/series-s22601/403.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2015款 200 舒适版	雷克萨斯ES
16	https://car.autohome.com.cn/pic/series-s23358/403.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2015款 200 精英版	雷克萨斯ES
17	https://car.autohome.com.cn/pic/series-s24897/403.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2016款 250 Midnight特别限	雷克萨斯ES
18	https://car.autohome.com.cn/pic/series-s24892/403.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2016款 200 Midnight特别限	雷克萨斯ES
19	https://car.autohome.com.cn/pic/series-s31975/403.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2017款 300h Mark Levinson	雷克萨斯ES
20	https://car.autohome.com.cn/pic/series-s31976/403.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2017款 300h Mark Levinson	雷克萨斯ES
21	https://car.autohome.com.cn/pic/series-s31752/403.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2017款 200 30周年纪念版	雷克萨斯ES
22	https://car.autohome.com.cn/pic/series-s34545/403.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2018款 300h F SPORT	雷克萨斯ES
23	https://car.autohome.com.cn/pic/series-s34528/403.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2018款 300h	雷克萨斯ES
24	https://car.autohome.com.cn/pic/series-s34544/403.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2018款 350 F SPORT	雷克萨斯ES
25	https://car.autohome.com.cn/pic/series-s34371/403.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2018款 260 F SPORT	雷克萨斯ES
26	https://car.autohome.com.cn/pic/series-s34543/403.html#pvareaid=2042220	雷克萨斯	雷克萨斯	2018款 250	雷克萨斯ES

## 用VSCode检测出实际编码帮助找到问题原因

详见：

[【已解决】后台导入csv文件后解析成功但导入失败](#)

中就用到了 VSCode 中识别并转换文件的编码，效果很不错。

因为可以自动根据文件的内容去推断最可能的实际的编码。

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## 搜索和替换

支持多种范围的 搜索 和 替换 :

- 当前文件内的
- 全局的=项目范围内的

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# 普通搜索

## 注意事项

有些东西搜不到是因为被默认排除了 `node_modules`

如果在VSCode中无法搜索到，确定存在的内容，则很可能是和我此处遇到的现象一样：

很多项目通过npm安装很多库到`node_modules`中，通过bower安装库到`bower_components`中，

而VSCode此处默认是通过：

```
"search.exclude": {
  "**/node_modules": true,
  "**/bower_components": true
}
```

排除了这两个文件夹到，从而导致搜索不到。

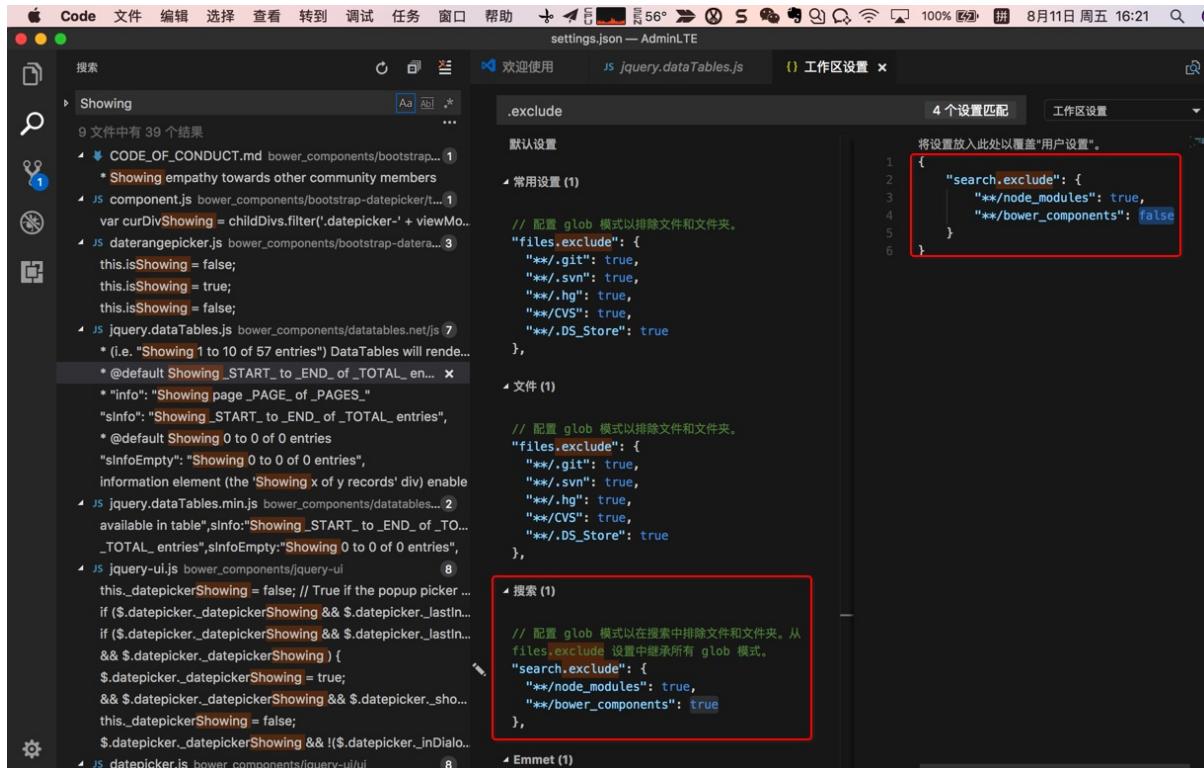
解决办法：

对于此处，取消掉`bower_components`的排除设置，改为`false`，不排除。

Code->首选项->设置->搜索：

拷贝上述的配置，放到右边到用户设置（或者是工作区设置）

把`bower_components`改为`false`即可：



详见： [【已解决】VSCode中搜索不到实际上是存在的字符串](#)

03-16 21:12:29

## 正则搜索

TODO:

- 整理更多的用正则搜索的例子
- 整理VSCode内部所使用的正则的库是哪一个

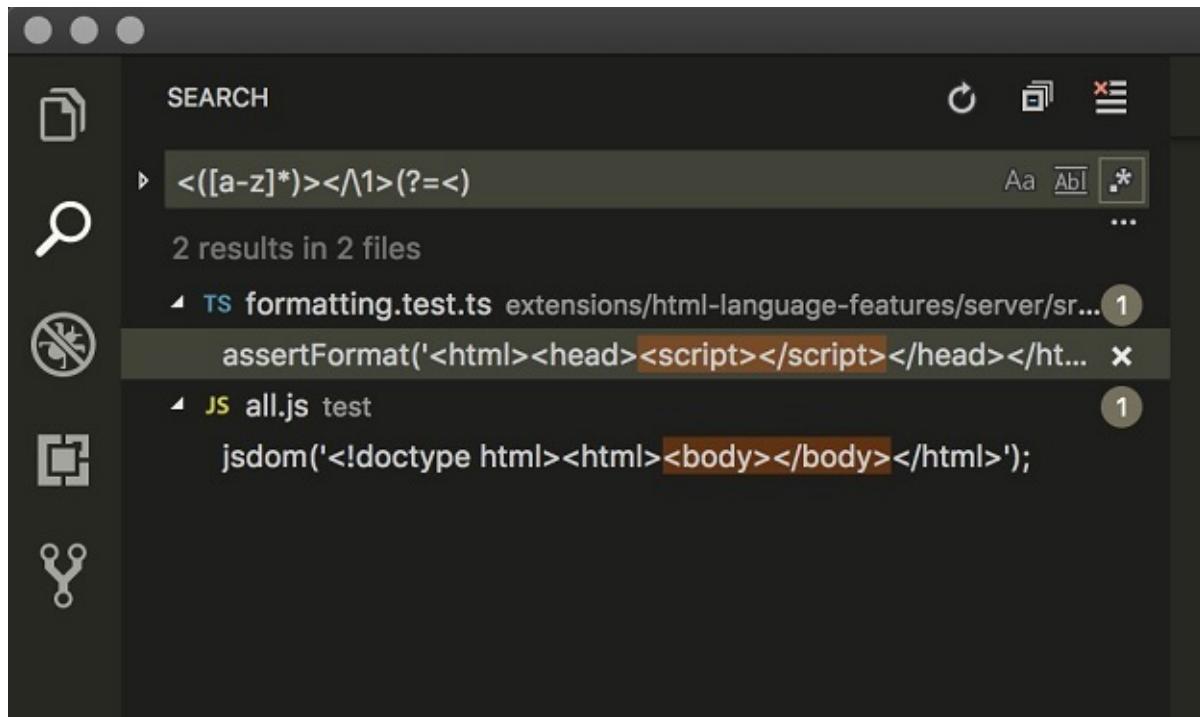
VSCode的搜索中支持正则的高级语法，比如：

- 【已解决】VSCode中如何使用正则表达式去替换且被替换中使用分组group
- 正则去替换掉特殊不可见字符：
  - 【已解决】替换掉VSCode中显示出的特殊字符：NAK

## 向后引用

后来新增了高级的正则搜索中的，后向引用和前向引用：[Visual Studio Code October 2018 -> Backreferences and lookahead in search](#)

效果：



以及[Multiline search](#)

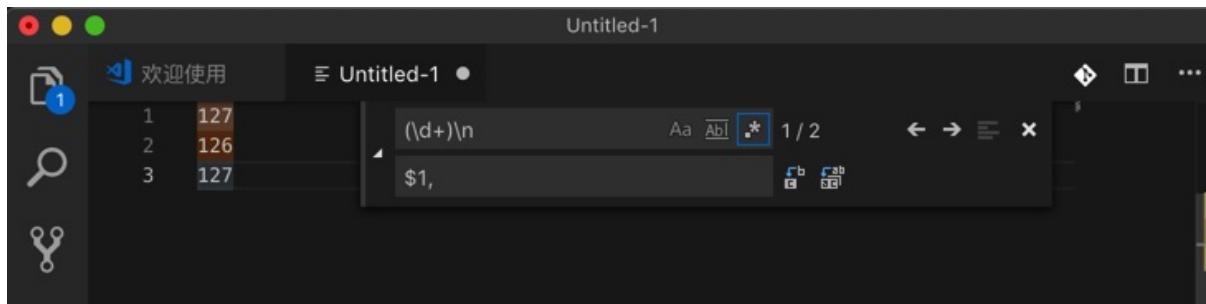
所以去更新了帖子 [Visual Studio Code 的正则匹配好用吗？ - 知乎](#)的回答：

试了试其想要的效果：

```
127  
126  
127
```

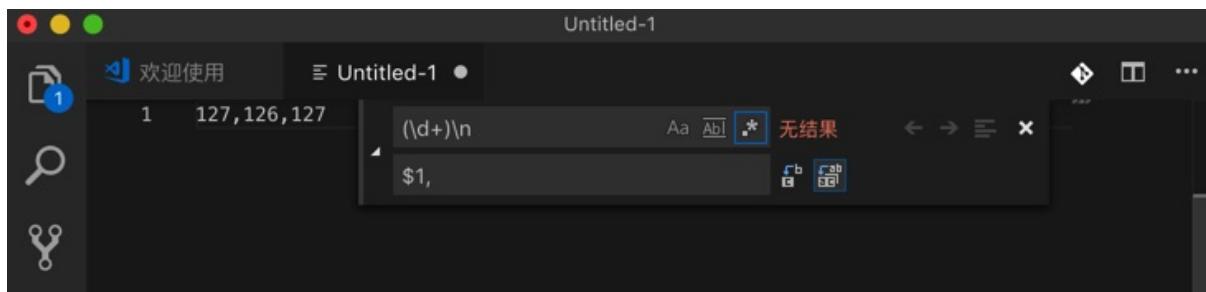
用正则替换：

```
(\d+)\n$1,
```



即可替换为：

```
127,126,127
```



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# 查找函数定义

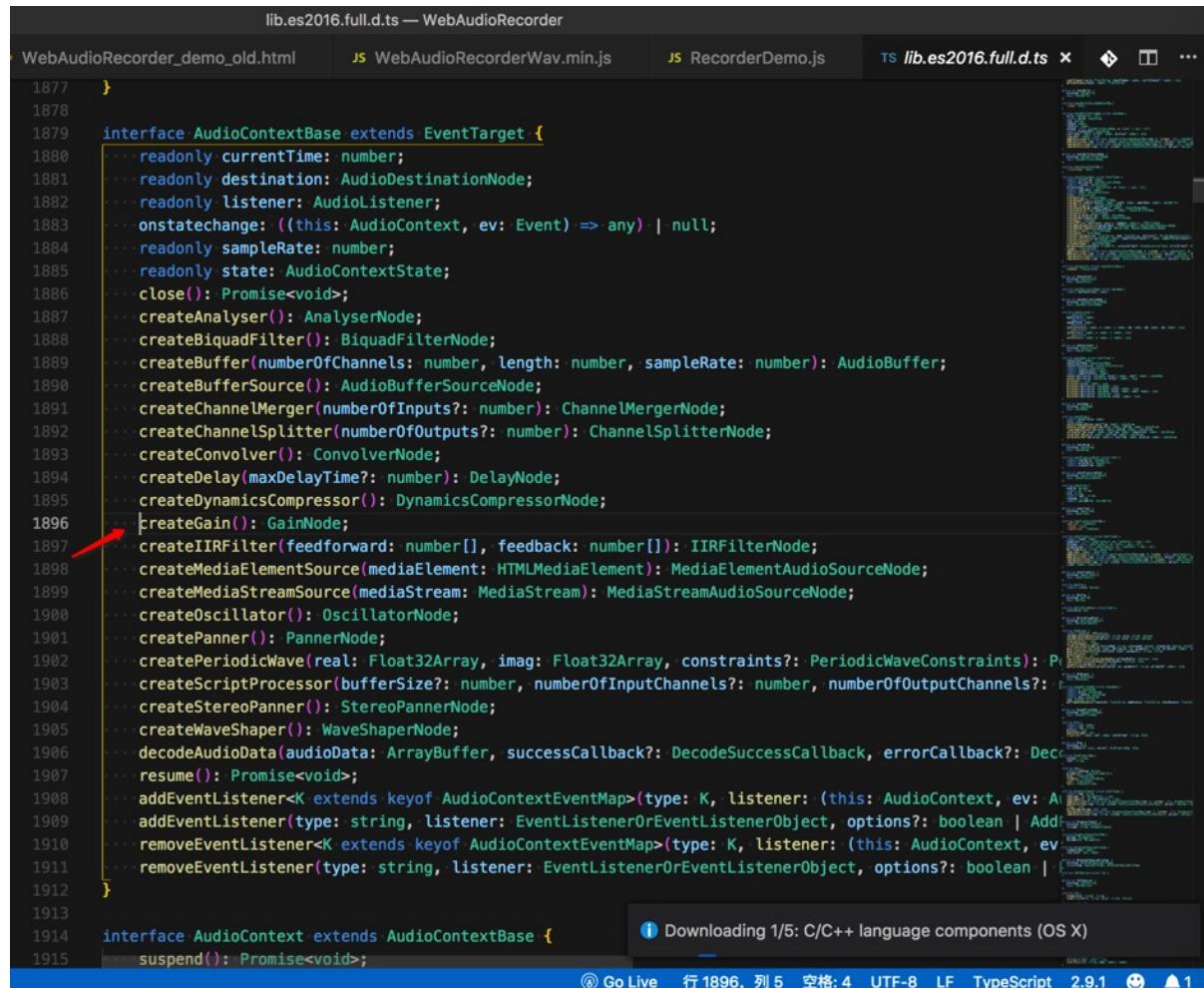
选择某个函数：

The screenshot shows a code editor with three tabs: 'RecorderDemo.js — WebAudioRecorder' (active), 'WebAudioRecorder\_demo\_old.html', and 'JS WebAudioRecorderWav.min.js'. The active tab displays a Web Audio graph and its corresponding JavaScript code. The graph consists of nodes like 'testToneLevel', 'mixer', and 'audioRecorder', connected by arrows indicating signal flow. Below the graph, the JavaScript code defines variables for these nodes and their connections. A specific line of code, `var testToneLevel = audioContext.createGain();`, is highlighted with a yellow box. This indicates that the user has selected this function for definition lookup.

```
RecorderDemo.js — WebAudioRecorder
WebAudioRecorder_demo_old.html      JS WebAudioRecorderWav.min.js      JS RecorderDemo.js ×

04
05     |-----+-----+-----+
06     (testTone)-----|>-----+
07     |-----+-----+-----+
08     |-----+-----+-----+
09     |-----+-----+-----+
10     |-----+-----+-----+
11     |-----+-----+-----+
12     |-----+-----+-----+
13     |-----+-----+-----+
14     |-----+-----+-----+
15     |-----+-----+-----+
16     |-----+-----+-----+
17     |-----+-----+-----+
18     |-----+-----+-----+
19     |-----+-----+-----+
20     |-----+-----+-----+
21     |-----+-----+-----+
22     |-----+-----+-----+
23     |-----+-----+-----+
24     |-----+-----+-----+
25     |-----+-----+-----+
26     |-----+-----+-----+
27     |-----+-----+-----+
28     |-----+-----+-----+
29     |-----+-----+-----+
30     |-----+-----+-----+
31     |-----+-----+-----+
32     |-----+-----+-----+
33     |-----+-----+-----+
34     |-----+-----+-----+
35     |-----+-----+-----+
36     |-----+-----+-----+
37     |-----+-----+-----+
38     |-----+-----+-----+
39     |-----+-----+-----+
40     |-----+-----+-----+
41     |-----+-----+-----+
42     |-----+-----+-----+
43     |-----+-----+-----+
44     |-----+-----+-----+
45     |-----+-----+-----+
46     |-----+-----+-----+
47     |-----+-----+-----+
48     |-----+-----+-----+
49     |-----+-----+-----+
```

Command + 鼠标点击，可以找到此处js的函数定义：



```

lib.es2016.full.d.ts — WebAudioRecorder
WebAudioRecorder_demo_old.html JS WebAudioRecorderWav.min.js JS RecorderDemo.js TS lib.es2016.full.d.ts X ⌂ ⌂ ...
1877 }
1878
1879 interface AudioContextBase extends EventTarget {
1880   readonly currentTime: number;
1881   readonly destination: AudioDestinationNode;
1882   readonly listener: AudioListener;
1883   onstatechange: ((this: AudioContext, ev: Event) => any) | null;
1884   readonly sampleRate: number;
1885   readonly state: AudioContextState;
1886   close(): Promise<void>;
1887   createAnalyser(): AnalyserNode;
1888   createBiquadFilter(): BiquadFilterNode;
1889   createBuffer(numberOfChannels: number, length: number, sampleRate: number): AudioBuffer;
1890   createBufferSource(): AudioBufferSourceNode;
1891   createChannelMerger(numberOfInputs?: number): ChannelMergerNode;
1892   createChannelSplitter(numberOfOutputs?: number): ChannelSplitterNode;
1893   createConvolver(): ConvolverNode;
1894   createDelay(maxDelayTime?: number): DelayNode;
1895   createDynamicsCompressor(): DynamicsCompressorNode;
1896   |createGain(): GainNode;
1897   createIIRFilter(feedforward: number[], feedback: number[]): IIRFilterNode;
1898   createMediaElementSource(mediaElement: HTMLMediaElement): MediaElementAudioSourceNode;
1899   createMediaStreamSource(mediaStream: MediaStream): MediaStreamAudioSourceNode;
1900   createOscillator(): OscillatorNode;
1901   createPanner(): PannerNode;
1902   createPeriodicWave(real: Float32Array, imag: Float32Array, constraints?: PeriodicWaveConstraints): PeriodicWave;
1903   createScriptProcessor(bufferSize?: number, numberOfInputChannels?: number, numberOfOutputChannels?: number): ScriptProcessorNode;
1904   createStereoPanner(): StereoPannerNode;
1905   createWaveShaper(): WaveShaperNode;
1906   decodeAudioData(audioData: ArrayBuffer, successCallback?: DecodeSuccessCallback, errorCallback?: DecodeErrorCallback): Promise<AudioData>;
1907   resume(): Promise<void>;
1908   addEventListener<K extends keyof AudioContextEventMap>(type: K, listener: (this: AudioContext, ev: AudioContextEvent) => void): void;
1909   addEventListener(type: string, listener: EventListenerOrEventListenerObject, options?: boolean | AddEventListenerOptions): void;
1910   removeEventListener<K extends keyof AudioContextEventMap>(type: K, listener: (this: AudioContext, ev: AudioContextEvent) => void): void;
1911   removeEventListener(type: string, listener: EventListenerOrEventListenerObject, options?: boolean | RemoveEventListenerOptions): void;
1912 }
1913
1914 interface AudioContext extends AudioContextBase {
1915   suspend(): Promise<void>;

```

Downloading 1/5: C/C++ language components (OS X)

Go Live 行 1896, 列 5 空格: 4 UTF-8 LF TypeScript 2.9.1

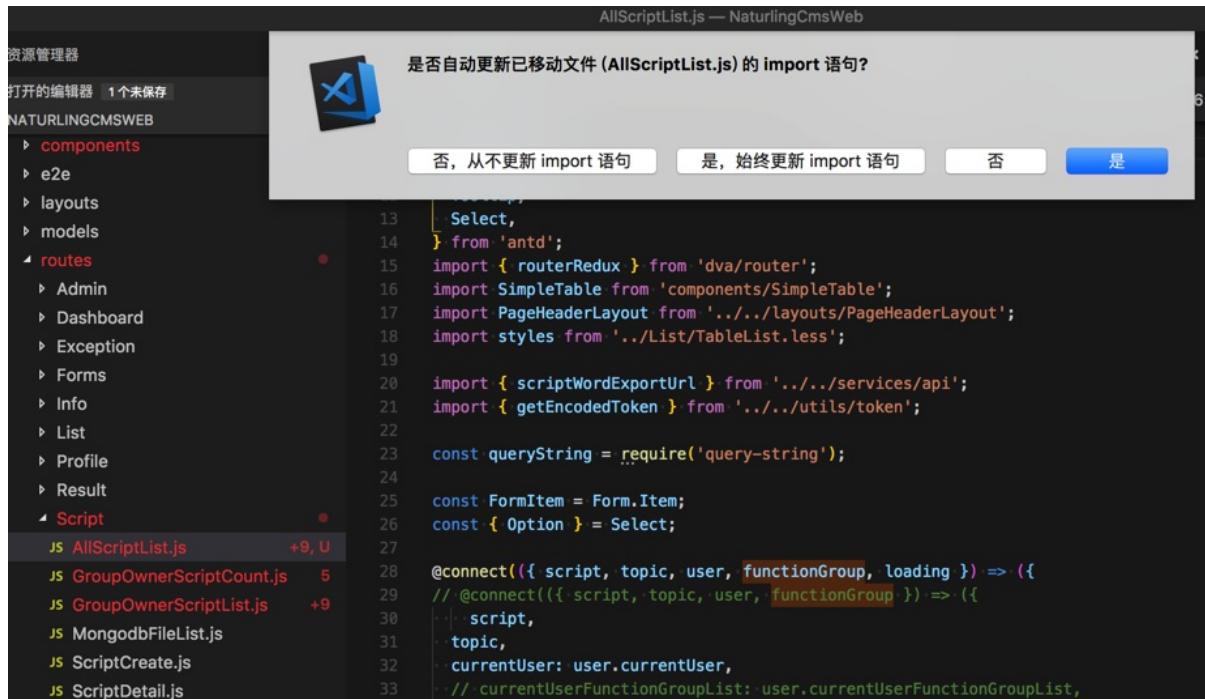
效果不错。

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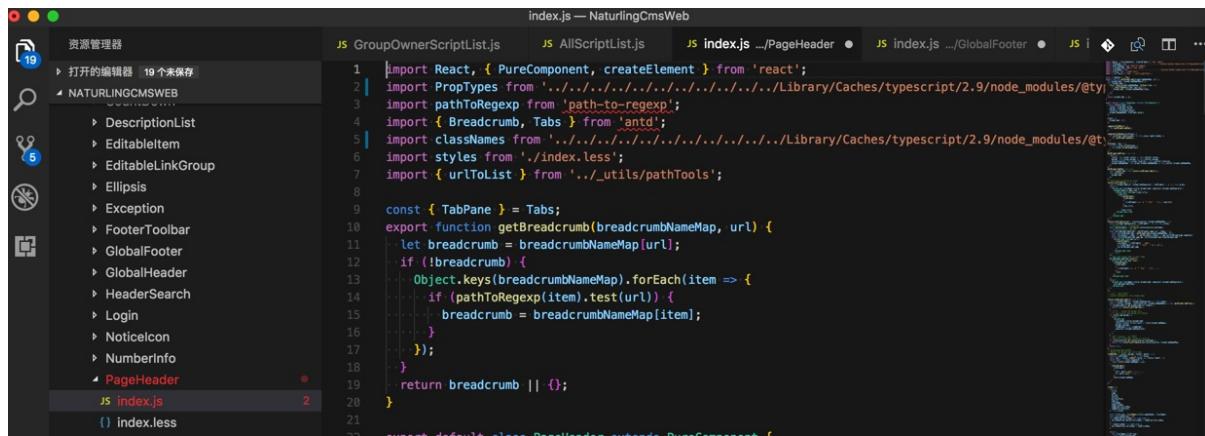
# VSCode的智能好用之处

## 自动更新import语句

当从已有的一个文件，复制并改名后，VSCode可以自动检测出来，提示是否需要更新import语句



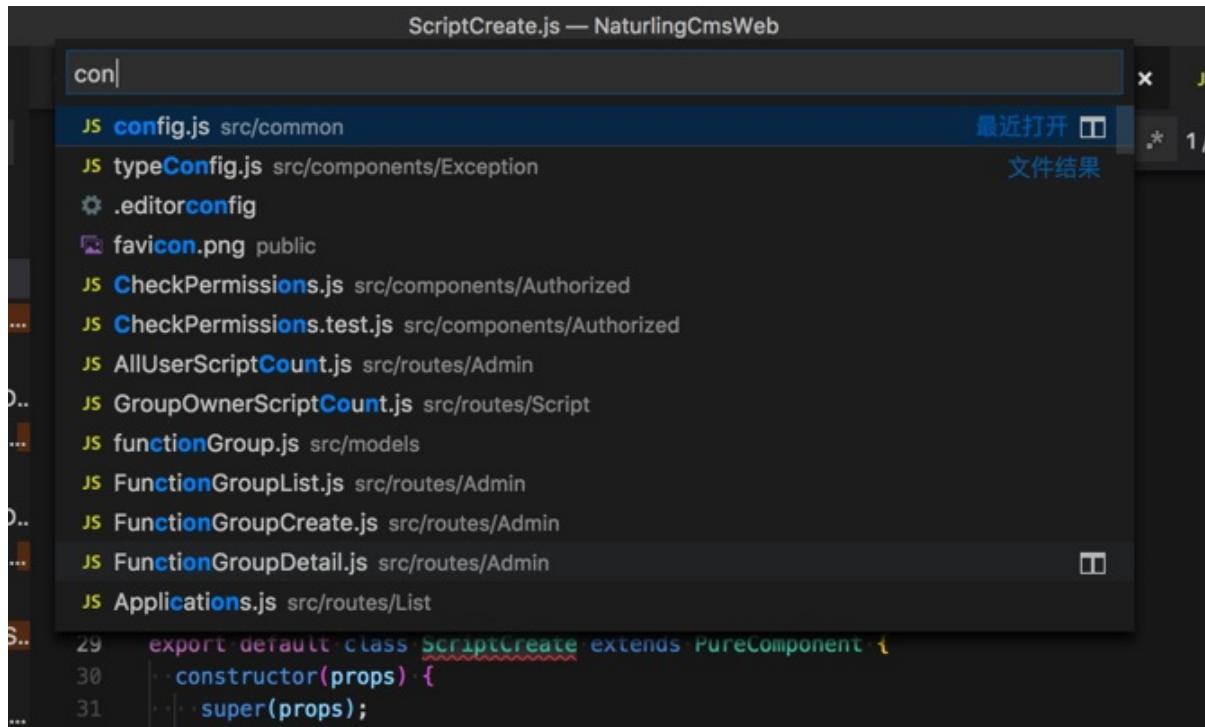
即可自动更新import语句：



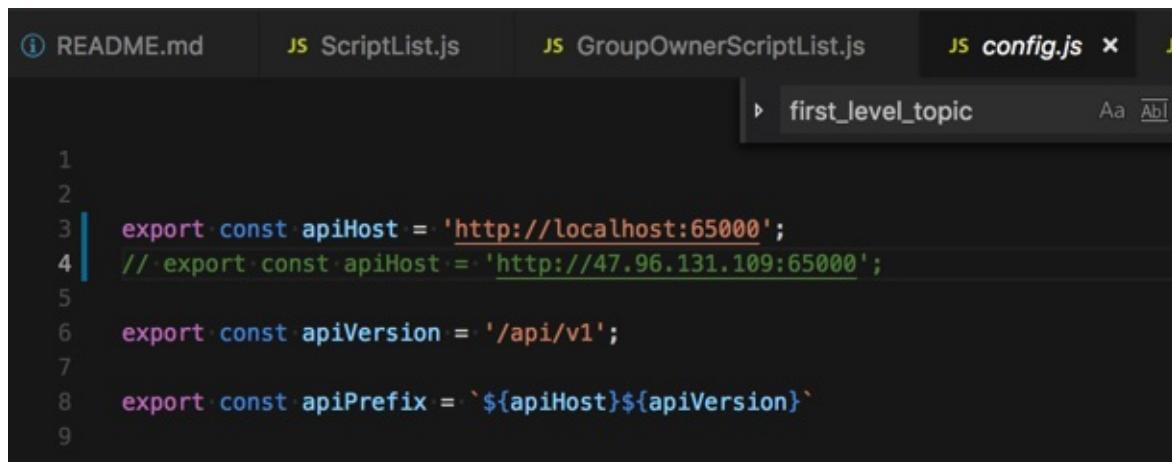
不过，此处更新后的內容不是我要的，竟然把本来正常的都改错误了，所以还要自己去改回来。以后慎用这个自动修改import的功能。

## 快速跳转文件

Command + P 后，输入（部分）文件名（支持模糊搜索）：



选中回车即可跳转文件：



## log日志中点击文件路径可以跳转到该文件

比如调试期间出错了，点击对应log错误日志中的文件路径：

```

File "/usr/local/lib/python3.6/site-packages/rest_framework/views.py", line 483, in dispatch
response = self.handle_exception(exc)
File "/usr/local/lib/python3.6/site-packages/rest_framework/views.py", line 443, in handle_exception
self.raise_uncaught_exception(exc)
File "/usr/local/lib/python3.6/site-packages/rest_framework/views.py", line 480, in dispatch
response = handler(request, args, kwargs)
File "/Users/crifan/dev/dev_root/company/naturling/projects/xxx/server/xxx/apps/script/views.py", line 136, in create
if i['type'] == '0':
TypeError: string indices must be integers

```

development.log — NaturlingCmsServer

```

1681 kages/django/core/handlers/exception.py", line 1682
1682     kages/django/core/handlers/base.py", line 128, in _get_response
1683         middleware(e, request)
1684     kages/django/core/handlers/base.py", line 126, in _get_response
1685         *callback_args, **callback_kwargs)
1686     kages/django/views/decorators/csrf.py", line 54, in wrapped_view
1687         kages/rest_framework/viewsets.py", line 103, in view
1688             kages/rest_framework/views.py", line 483, in dispatch
1689             kages/rest_framework/views.py", line 443, in handle_exception
1690             kages/rest_framework/views.py", line 480, in dispatch
1691                 kargs)
1692             y/naturling/projects/NaturlingCmsServer/apps/script/views.py" line 136, in create
1693             5
1694
1695
1696
1697
1698
1699
1700

```

可以跳转到对应的文件：

views.py — NaturlingCmsServer

```

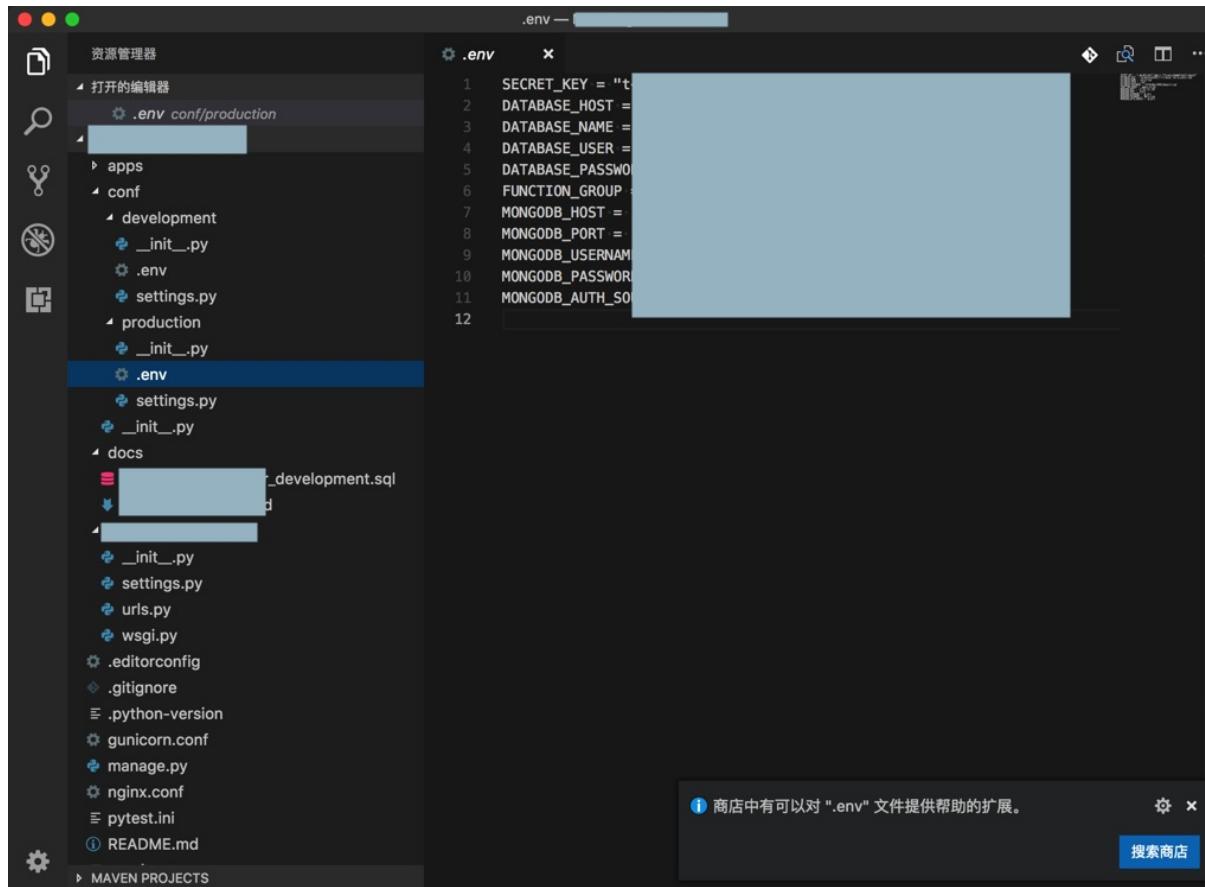
114 age_end = request.data.get('age_end')
115 topic = request.data.get('topic')
116 second_level_topic = request.data.get('second_level_topic')
117 if topic:
118     topic = Topic.objects.get(name=topic, type='sectorTopic')
119 if second_level_topic:
120     second_level_topic = Topic.objects.get(name=second_level_topic, type='topic')
121     script = Script(place=place, title=title, age_start=age_start,
122                     topic=topic, second_level_topic=second_level_topic,
123                     age_end=age_end, author=request.user,
124                     history=history, edit_status=edit_status,
125                     publish_status=publish_status, version=version)
126 else:
127     script = Script(place=place, title=title, age_start=age_start,
128                     topic=topic, age_end=age_end, author=request.user,
129                     history=history, edit_status=edit_status,
130                     publish_status=publish_status, version=version)
131     script.save()
132     # dialog 创建
133     dialogs = request.data.get('dialogs', [])
134     if dialogs:
135         for i in dialogs:
136             if i['type'] == '0':
137                 dialog = Dialog(type=i['type'], speaker=i['speaker'],
138                                 content=i['content'], script=script)
139             elif i['type'] == '1':
140                 dialog = Dialog(type=i['type'],

```

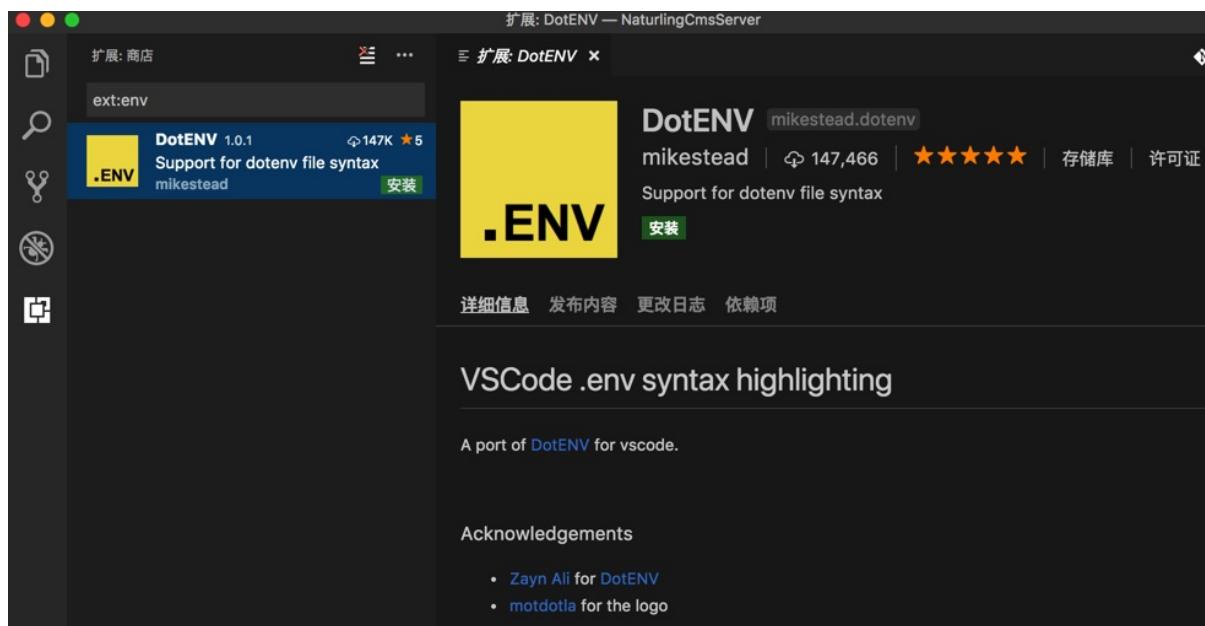
方便调试。

## 提示安装支持相应文件的插件

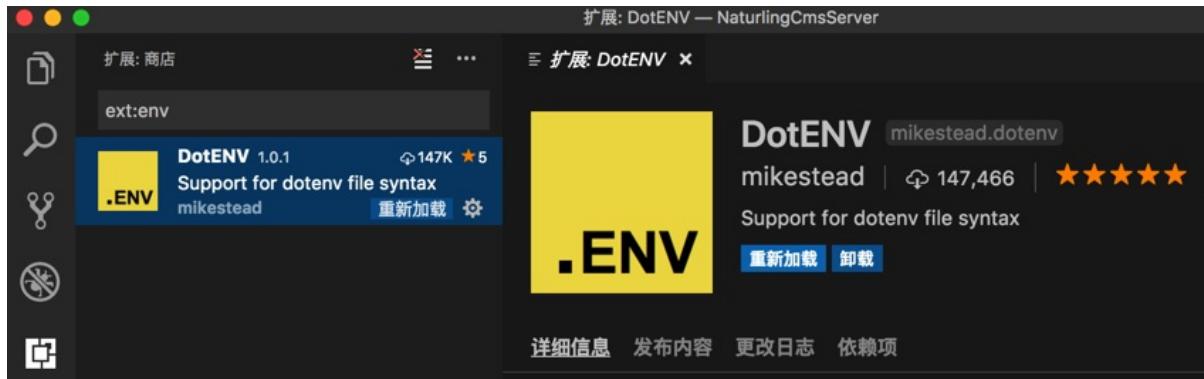
首次打开 .env，则提示是否要安装.env的插件，点击 搜索商店：



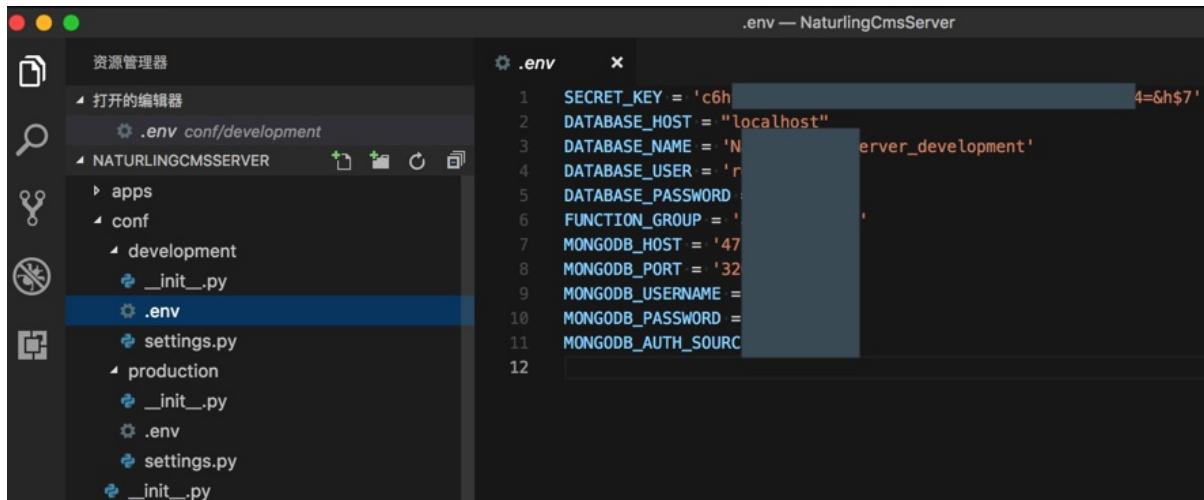
然后点击安装插件：



安装后，重启加载：

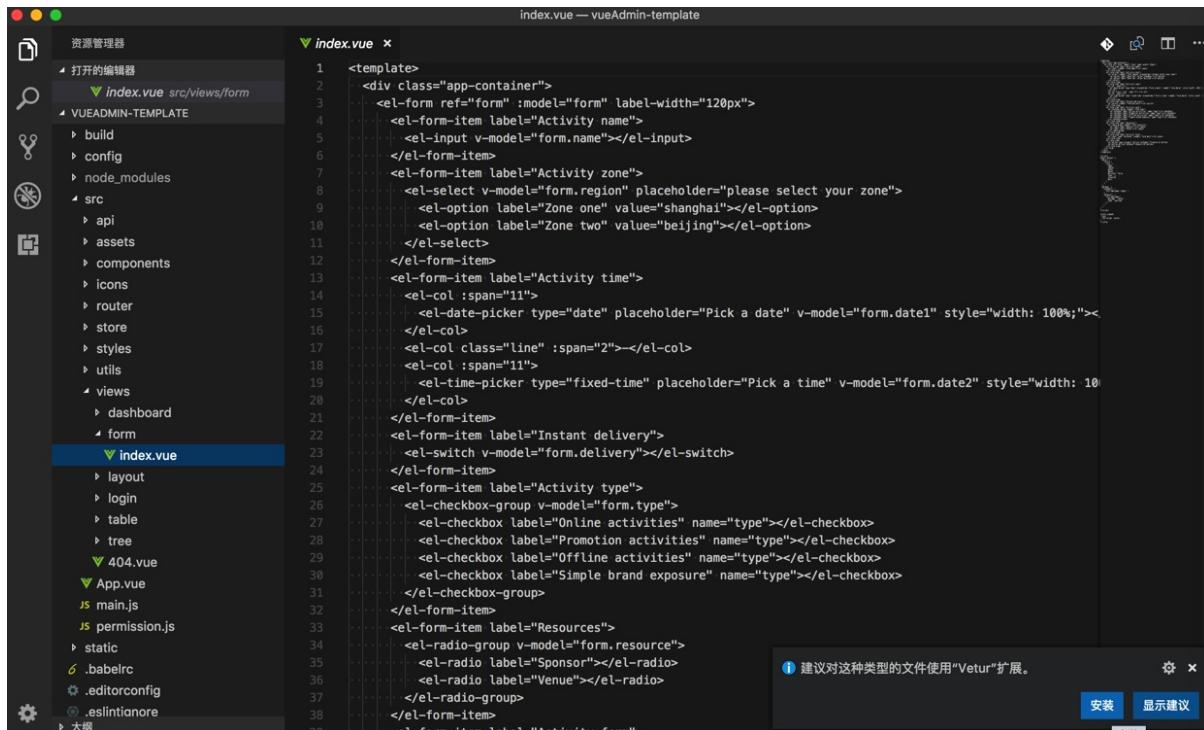


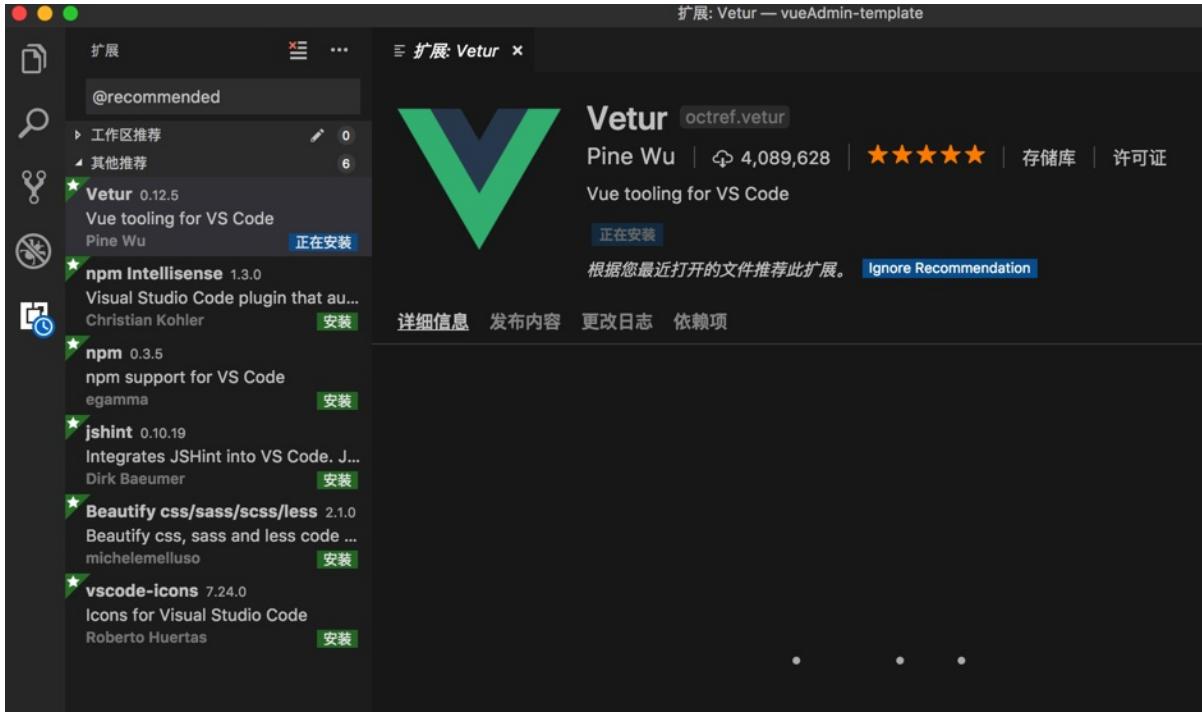
然后.env就可以语法高亮了：



另外类似的情况还有：

首次打开vue提示安装对应的插件：





## 根据路径动态提示文件

刚新建个文件夹，加入了几个js文件后，然后再去html中输入路径后，即可动态匹配路径和文件：

The screenshot shows an HTML file in the editor. The code includes several script tags. In the first instance, the path 'js/bootstrap3\_player.js' is being typed, and the code completion dropdown shows suggestions for 'highlight.js' and 'WebAudioRecorder.js'. In the second instance, the path 'js/main.' is being typed, and the code completion dropdown shows suggestions for 'WavAudioEncoder.min.js', 'WebAudioRecorder.js', and 'WebAudioRecorderWav.js'. This demonstrates how VSCode uses the project structure to provide intelligent file navigation.

```

<!----<script src="js/jquery-3.3.1.js"></script>---->
<!--<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js"></script>
<script src="js/jquery-1.11.1/jquery-1.11.1.js"></script>
<!--<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8Izx91wWUoaa0NqbjaDnb6OHe2LIxGZGn6dCh+nq7u1+IqAer20cvjKsQc...
<script src="js/popper-1.14.0/popper.min.js"></script>
<!--<script src="js/bootstrap.js"></script>-->
<script src="js/bootstrap-3.3.1/bootstrap.min.js"></script>
<script src="js/highlight.js"></script>
<script src="js/bootstrap3_player.js"></script>
<!--<script src="js/MediaStreamRecorder/MediaStreamRecorder.min.js"></script>-->
<script src="js/w"></script>
<script src="js/main." />
</body>
</html>
```

```

<!-- Optional JavaScript -->
<!-- jQuery first, then Popper.js, then Bootstrap JS -->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js"></script>-->
<script src="js/jquery-1.11.1/jquery-1.11.1.js"></script>
<!--<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8Izx91wWu...
<script src="js/popper-1.14.0/popper.min.js"></script>
<!--<script src="js/bootstrap.js"></script>-->
<script src="js/bootstrap-3.3.1/bootstrap.min.js"></script>
<script src="js/highlight.js"></script>
<script src="js/bootstrap3_player.js"></script>
<!--<script src="js/MediaStreamRecorder/MediaStreamRecorder.min.js"></script>-->
<script src="js/WebAudioRecorder/" />
<script src="js/main." />
</body>
</html>
```

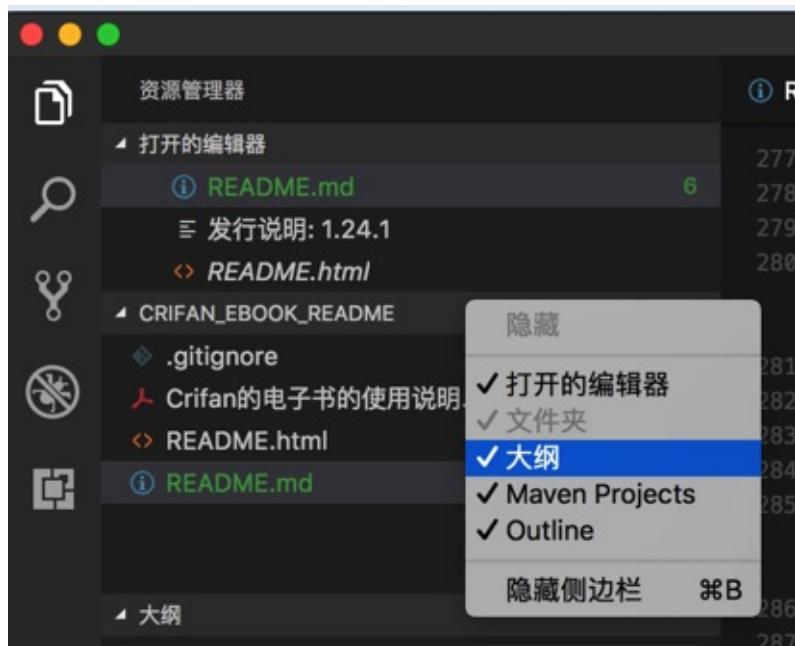
很是智能和贴心。

## 显示大纲

VSCode 1.24版本支持支持 大纲 = Outline = 目录：

Preview: Outline view - Symbol tree outline and navigation for your projects.

右键项目条，选中 大纲：



点击大纲中的某行后，可以跳转到对应位置，比如：

- Markdown：

- - Html

## 未使用变量检测

VSCode 1.24版本支持支持自动检测未使用的变量的提示：

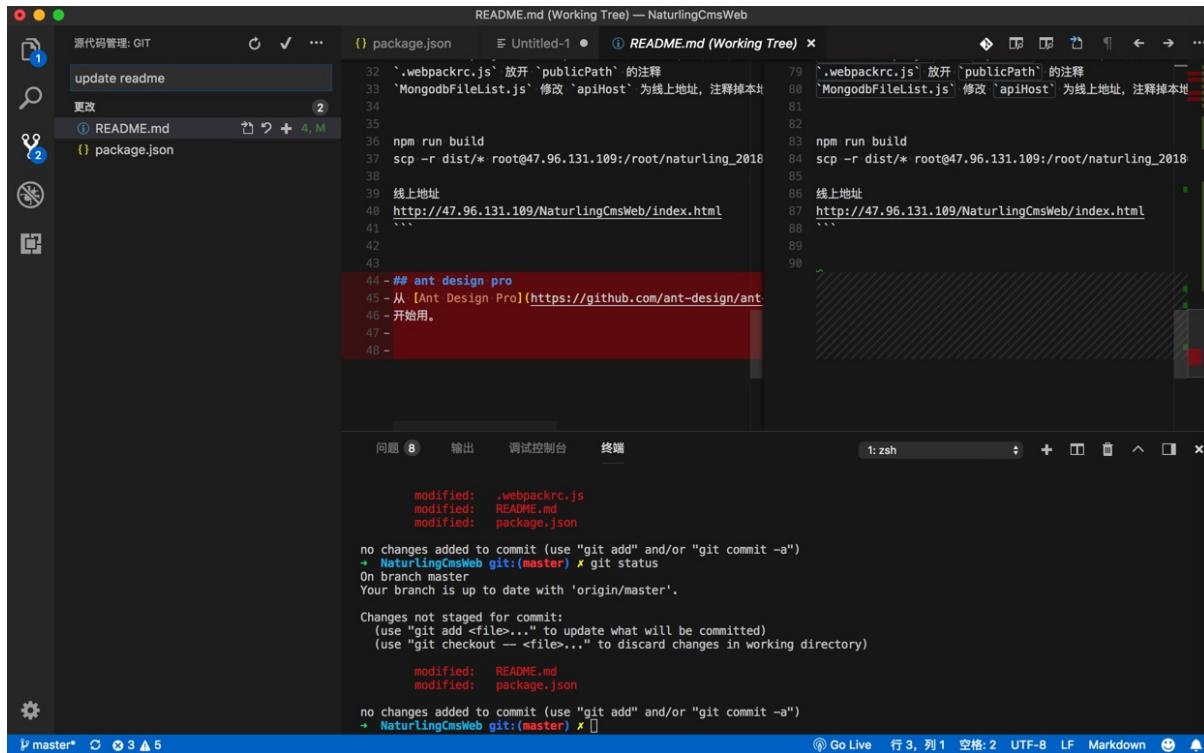
Unused variable detection - Unused variables are greyed-out in your JavaScript/TypeScript files

crifan.com, 使用[知识署名-相同方式共享4.0协议](#)发布 all right reserved, powered by Gitbook该文件修订时间： 2019-

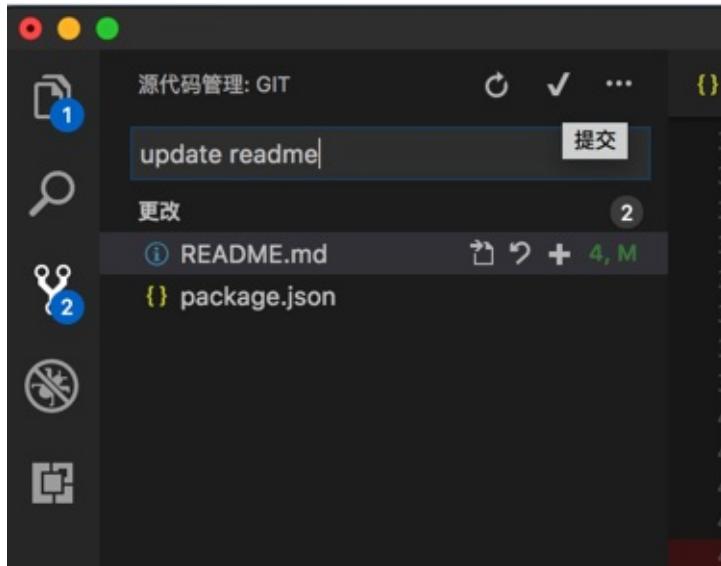
03-17 12:08:56

# Git代码管理

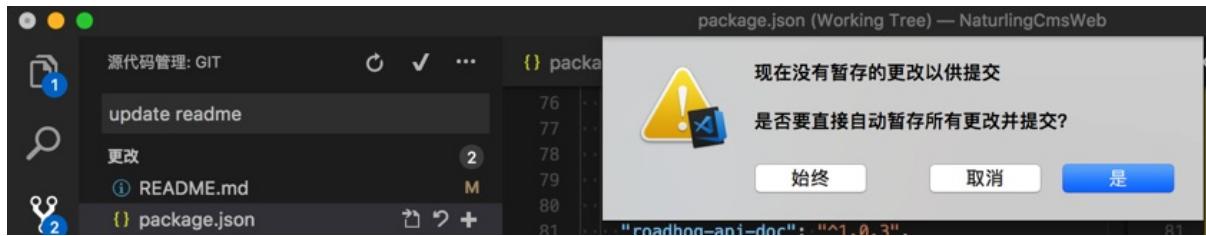
## VSCode中用git管理代码仓库



然后尝试用VSCode中的git界面去提交代码：



会有提示：



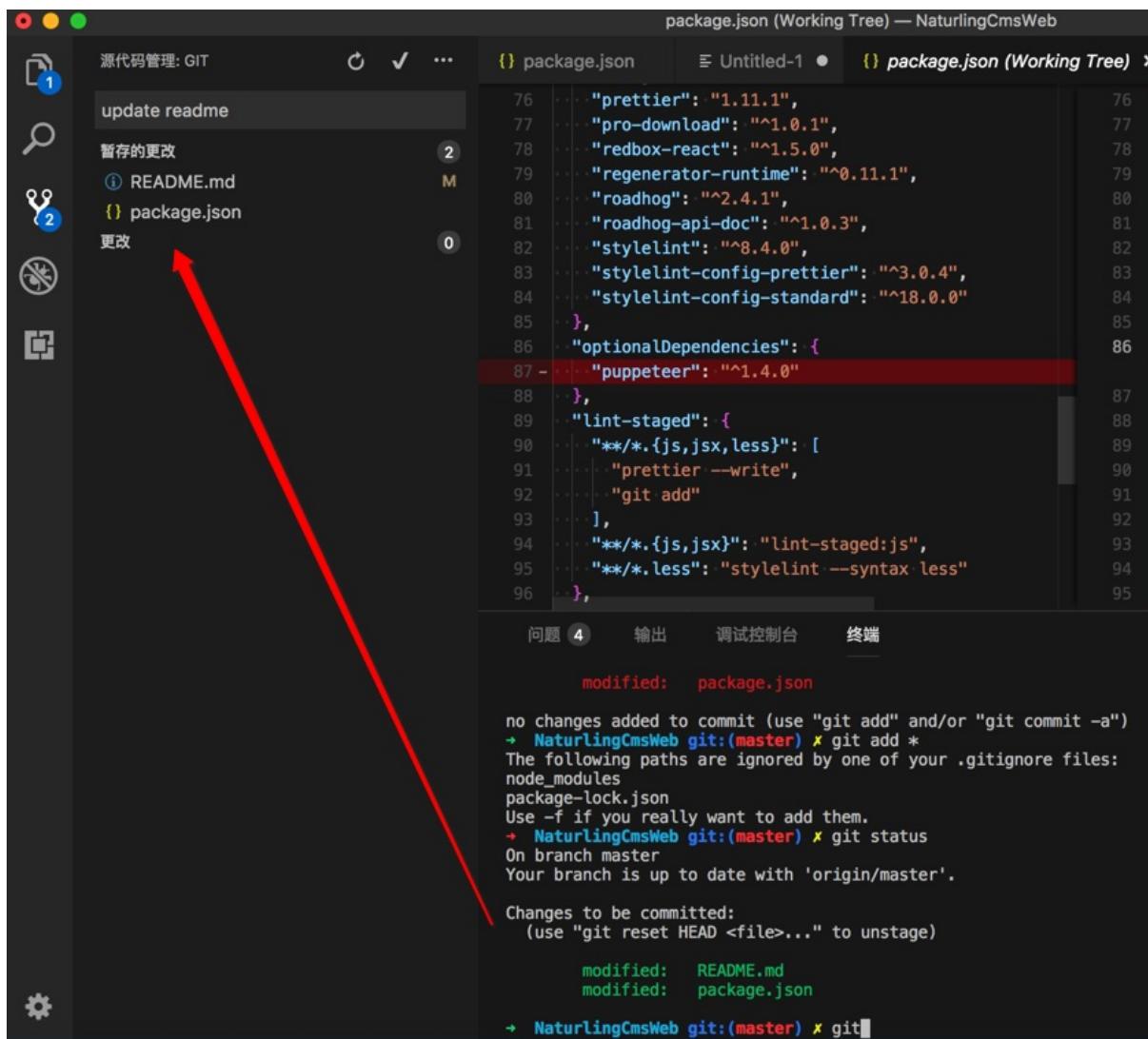
不过去 git add 后:

```
→ NaturlingCmsWeb git:(master) ✘ git add *
The following paths are ignored by one of your .gitignore files:
node_modules
package-lock.json
Use -f if you really want to add them.
→ NaturlingCmsWeb git:(master) ✘ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    modified: README.md
    modified: package.json
```

git就显示出对应的已经添加了的改动的文件了:



暂存的更改。而更改中就是空了。

-» 说明：暂存的更改，就是add进去的，本地临时保存的改动

```
→ NaturlingCmsWeb git:(master) ✘ git commit -m "1. update readme"
[master 31efca] 1. update readme
 2 files changed, 51 insertions(+), 10 deletions(-)
```

package.json (Working Tree) — NaturlingCmsWeb

源代码管理: GIT 消息 (按 Cmd+Enter 提交) 更改

```

76   "prettier": "1.11.1",
77   "pro-download": "^1.0.1",
78   "redbox-react": "^1.5.0",
79   "regenerator-runtime": "^0.11.1",
80   "roadhog": "^2.4.1",
81   "roadhog-api-doc": "^1.0.3",
82   "stylelint": "^8.4.0",
83   "stylelint-config-prettier": "^3.0.4",
84   "stylelint-config-standard": "^18.0.0"
85 },
86   "optionalDependencies": {
87 },
88   "lint-staged": {
89     "**/*.{js,jsx,less)": [
90       "prettier --write",
91       "git add"
92     ],
93     "**/*.{js,jsx)": "lint-staged:js",
94     "**/*.less": "stylelint --syntax less"
95   },
96   "engines": {
```

问题 4 输出 调试控制台 终端

```

→ NaturlingCmsWeb git:(master) ✘ git add *
The following paths are ignored by one of your .gitignore files:
node_modules
package-lock.json
Use -f if you really want to add them.
→ NaturlingCmsWeb git:(master) ✘ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    modified: README.md
    modified: package.json

→ NaturlingCmsWeb git:(master) ✘ git commit -m "1. update readme"
[master 31efca] 1. update readme
 2 files changed, 51 insertions(+), 10 deletions(-)
→ NaturlingCmsWeb git:(master) ✘
```

master 0↓1↑ 3▲1

然后再去push:

```
→ NaturlingCmsWeb git:(master) git push
Counting objects: 4, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 1.31 KiB | 1.31 MiB/s, done.
Total 4 (delta 2), reused 0 (delta 0)
remote: Powered by Gitee.com
To https://gitee.com/naturling_tech/NaturlingCmsWeb.git
  20b96a1..31efca  master -> master
```

```

package.json (Working Tree) — NaturlingCmsWeb
消息 (按 Cmd+Enter 提交)
更改 0

76 "prettier": "1.11.1",
77 "pro-download": "^1.0.1",
78 "redbox-react": "^1.5.0",
79 "regenerator-runtime": "^0.11.1",
80 "roadhog": "^2.4.1",
81 "roadhog-api-doc": "^1.0.3",
82 "stylelint": "^8.4.0",
83 "stylelint-config-prettier": "^3.0.4",
84 "stylelint-config-standard": "^18.0.0"
85 },
86 "optionalDependencies": {
87 },
88 "lint-staged": {
89 "**/*.{js,jsx,less)": [
90   "prettier --write",
91   "git add"
92 ],
93 "**/*.{js,jsx)": "lint-staged:js",
94 "**/*.less": "stylelint --syntax less"
95 },
96 "engines": {

```

问题 4    输出    调试控制台    终端

```

Changes to be committed:
(use "git reset HEAD <file>..." to unstage)

modified: README.md
modified: package.json

+ NaturlingCmsWeb git:(master) ✘ git commit -m "1. update readme"
[master 3iefca] 1. update readme
 2 files changed, 51 insertions(+), 10 deletions(-)
+ NaturlingCmsWeb git:(master) ✘ git push
Counting objects: 4, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 1.31 KiB | 1.31 MiB/s, done.
Total 4 (delta 2), reused 0 (delta 0)
remote: Powered by Gitee.com
To https://gitee.com/naturling_tech/NaturlingCmsWeb.git
 20b96a1..3iefca master -> master
+ NaturlingCmsWeb git:(master) ✘

```

master 0 3 1

## 查看文件历史版本和改动差异

如果需要对比之前某次的文件代码和当前最新代码有何改动，可以通过 `File History` 文件历史，得到我们要的效果：

比如想要对此这段代码和之前的写法有何不同：

```

permissions.py — NaturlingCmsServer
搜索          views.py .../script  Untitled-1 ●  permissions.py ✘  models.py  views.py .../user
True in
5 个结果, 包含于 2 个文件中
permissions.py apps/script 3
# if True in permissions_result:
# # if True in permissions_result:
# if True in permissions_result and...
permissions.py apps/user 2
# if True in permissions_result:
isAdmin = True in permission.. ✘

15 user = request.user
16 admin_function_group = FunctionGroup.objects.filter(function='1')
17 logger.info("admin_function_group=%s", admin_function_group)
18 function_group_name_list = list(admin_function_group.values_list('name', flat=True))
19 logger.info("function_group_name_list=%s", function_group_name_list)
20 function_group = [i + '.' + i for i in function_group_name_list]
21 logger.info("function_group=%s", function_group)
22 permissions_result = []
23 for curFunctionGroup in function_group:
24     logger.info("curFunctionGroup=%s", curFunctionGroup)
25     curUserGroupPermissions = user.get_group_permissions()
26     logger.info("curUserGroupPermissions=%s", curUserGroupPermissions)
27     if curFunctionGroup in curUserGroupPermissions:
28         permissions_result.append(True)
29     # if True in permissions_result:
30     #: return True
31     #: else:
32     #: return False
33 isAdmin = True in permissions_result
34 logger.info("isAdmin=%s", isAdmin)
35 return isAdmin

```

则可以：文件中右键选择 `Git: View File History`

permissions.py — NaturlingCmsServer

views.py .../script Untitled-1 ● permissions.py x models.py views.

```

15     user = request.user
16     admin_function_group = FunctionGroup.objects.filter(function='1')
17     logger.info("admin_function_group")
18     function_group_name_list = []
19     logger.info("function_group_name_list")
20     function_group = [i + '.' + j for i in admin_function_group]
21     logger.info("function_group")
22     permissions_result = []
23     for curFunctionGroup in function_group:
24         logger.info("curFunctionGroup")
25         curUserGroupPermissions = curUserGroupPermissions.filter(function_group=curFunctionGroup)
26         logger.info("curUserGroupPermissions")
27         if curFunctionGroup in curUserGroupPermissions:
28             permissions_result.append(curFunctionGroup)
29             # if True in permissions_result:
30             #     return True
31             # else:
32             #     return False
33             isAdmin = True in permissions_result
34             logger.info("isAdmin")
35             return isAdmin
36
37 class IsCreateOrIsAuthenticated:
38     .....
39     post 创建用户 allowany, 其余都是 is_authenticated
40     .....

```

转到定义 F12  
速览定义 ⌘F12  
查找所有引用 ⌄F12  
重命名符号 F2  
更改所有匹配项 ⌘F2  
格式化文件 ⌄⇧F  
源代码操作...  
剪切 ⌘X  
复制 ⌘C  
粘贴 ⌘V  
**Git: View File History**  
Git: View Line History  
在 Python 终端中运行选定内容 / 行 ⌄↔  
在终端中运行 Python 文件  
运行当前单元测试文件  
排序 import 语句  
命令面板... ⌄⌘P

或Tab页中右键选择：

permissions.py — NaturlingCmsServer

.py .../script Untitled-1 ● permissions.py views.py .../us

```

user = request.user
admin_function_group = FunctionGroup.objects.filter(function='1')
logger.info("admin_function_group")
function_group_name_list = []
logger.info("function_group_name_list")
function_group = [i + '.' + j for i in admin_function_group]
logger.info("function_group")
permissions_result = []
for curFunctionGroup in function_group:
    logger.info("curFunctionGroup")
    curUserGroupPermissions = curUserGroupPermissions.filter(function_group=curFunctionGroup)
    if curFunctionGroup in curUserGroupPermissions:
        permissions_result.append(curFunctionGroup)
# if True in permissions_result:
#     return True
# else:
#     return False

```

关闭 ⌘W  
关闭其他 ⌄⌘T  
关闭右侧  
关闭已保存 [⌘K U]  
全部关闭 [⌘K W]  
在 Finder 中显示 ⌄⌘R  
在侧边栏中显示  
复制路径 ⌄⌘C  
保持打开状态 [⌘K Enter]  
向上拆分  
向下拆分  
向左拆分  
向右拆分  
**Git: View File History**

然后就可以看到各个历史版本了：

The screenshot shows a list of commits for the file `permissions.py`. The commits are:

- 1.fixbug: nex page will error (commit hash: c80e4e5)
- update (commit hash: 728f68e)
- fix get script/script\_id/dialogs/ (commit hash: cd5e79d)
- add cros header (commit hash: e229a32)
- remove redundant code (commit hash: ef150ce)
- update (commit hash: 3d3213d)
- add function\_group/members/ (commit hash: 8b55d71)
- update (commit hash: 9bd81c1)
- update (commit hash: c17719b)
- ... (truncated)

At the bottom right, there are "Previous" and "Next" buttons.

点击其中一个版本可以查看提交详情：

The screenshot shows a detailed view of a commit for the file `permissions.py`. The commit details are:

- 1.fixbug: nex page will error** (commit hash: c80e4e5)
- on 2018年7月25日周三 下午5:39

The commit message is "1.fixbug: nex page will error". Below the message, there is a list of changes:

- update (commit hash: 728f68e)
- fix get script/script\_id/dialogs/ (commit hash: cd5e79d)
- add cros header (commit hash: e229a32)
- remove redundant code (commit hash: ef150ce)
- update (commit hash: 3d3213d)

Below the changes, there is a diff view showing the modifications made to the file. The diff shows the following changes:

```

1  M apps/user/permissions.py
9  M apps/user/views.py
23 M conf/development/settings.py
51 M conf/production/settings.py

```

At the bottom right, there are "Previous" and "Next" buttons.

点击某次提交中的某个文件：

File History (permissions.py) — NaturlingCmsServer

views.py .../script Untitled-1 ● permissions.py File History (permissions.py) x models.py ⌂ v ⌂ ⌂ ...

Search master All Authors Clear Refresh

1.fixbug: nex page will error  
rifan on 2018年7月25日周三 下午5:39 c80e4e5

update  
on 2018年6月22日周五 下午5:43 728f68e

fix get script/script\_id/dialogs/  
on 2018年6月22日周五 下午4:47 cd5e79d

add cors header  
on 2018年6月15日周五 下午3:58 e229a32

remove redundant code  
on 2018年5月31日周四 上午10:57 ef150ce

update  
on 2018年6月22日周五 下午5:43 3d3213d

update  
on 2018年6月22日周五 下午5:43

1 apps/user/permissions.py added 0 & deleted 1

9 apps/user/views.py

23 conf/development/settings.py

51 conf/production/settings.py

选择: Compare against workspace file

File History (permissions.py) — NaturlingCmsServer

|

View file contents

Compare against workspace file

Compare against previous version

View file history

update  
on 2018年6月22日周五 下午 5:43  
fix get script/script\_id/dialogs/  
on 2018年6月22日周五 下午 5:47

add cros header  
on 2018年6月15日周五 下午 3:58

remove redundant code  
on 2018年5月31日周四 上午 10:57

update

update  
on 2018年6月22日周五 下午 5:43

1 apps/user/permissions.py  
9 apps/user/views.py  
23 conf/development/settings.py  
51 conf/production/settings.py

Previous Next

即可去该版本和当前最新文件，去对比内容差异：

```
permissions.py (Working Tree) — NaturingCmsServer
```

```
permissions.py (Working Tree)
```

```
.../script
```

```
9     def has_permission(self, request, view):  
10        """  
11            admin_function_group 组的人才能调用用户组的API  
12        """  
13        logger.info("IsUserFunctionAdmin has_permission")  
14  
15        user = request.user  
16        admin_function_group = FunctionGroup.objects.filter(name="IsUserFunctionAdmin")  
17        logger.info("admin_function_group=%s", admin_function_group)  
18        function_group_name_list = list(admin_function_group)  
19        logger.info("function_group_name_list=%s", function_group_name_list)  
20        function_group = [i + '.' + i for i in function_group_name_list]  
21        logger.info("function_group=%s", function_group)  
22        permissions_result = []  
23        for curFunctionGroup in function_group:  
24            logger.info("curFunctionGroup=%s", curFunctionGroup)  
25            curUserGroupPermissions = user.get_group_permissions()  
26            logger.info("curUserGroupPermissions=%s", curUserGroupPermissions)  
27            if curFunctionGroup in curUserGroupPermissions:  
28                permissions_result.append(True)  
29            # if True in permissions_result:  
30            #    return True  
31            # else:  
32            #    return False  
33            isAdmin = True in permissions_result  
34            logger.info("isAdmin=%s", isAdmin)  
35        return isAdmin
```

```
permissions.py (Working Tree)
```

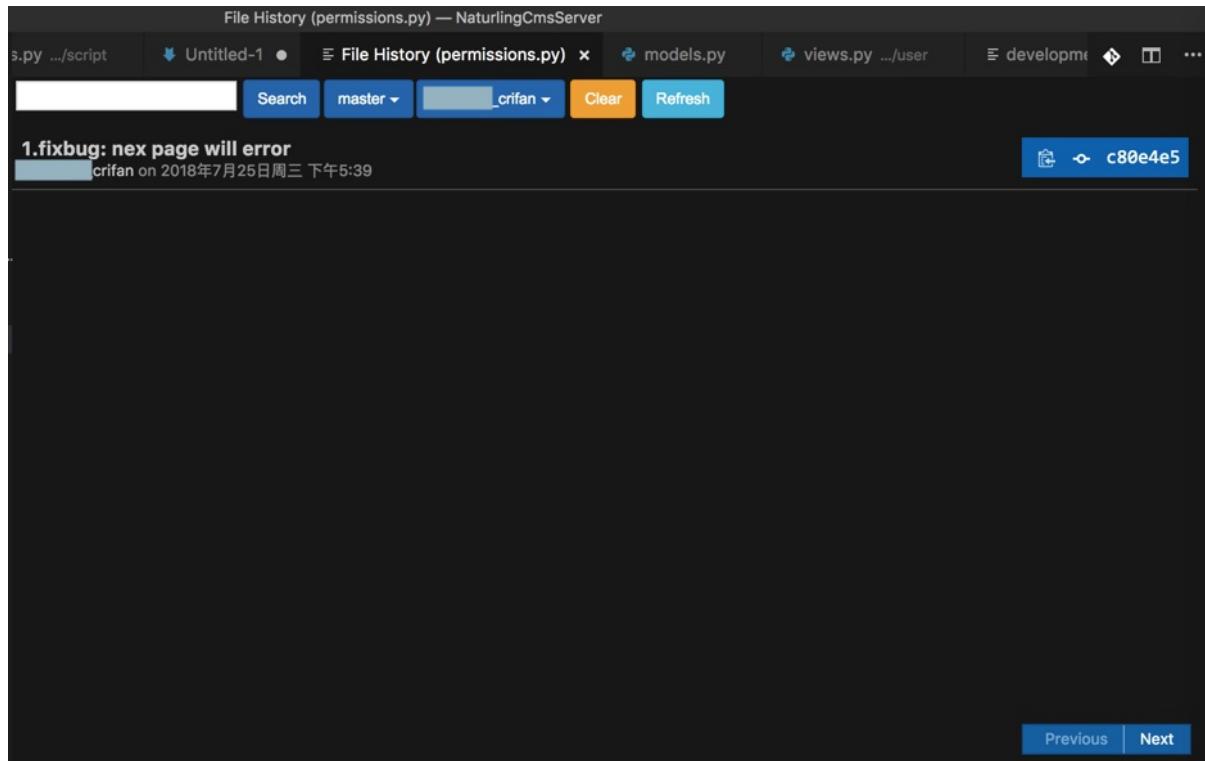
```
.../script
```

```
6     def has_permission(self, request, view):  
7        """  
8            admin_function_group 组的人才能调用用户组的API  
9        """  
10       user = request.user  
11       admin_function_group = FunctionGroup.objects.filter(name="IsUserFunctionAdmin")  
12       function_group_name_list = list(admin_function_group)  
13       function_group = [i + '.' + i for i in function_group_name_list]  
14       permissions_result = []  
15 +      for i in function_group:  
16 +          if i in user.get_group_permissions():  
17              permissions_result.append(True)  
18 +          if True in permissions_result:  
19 +              return True  
20 +          else:  
21 +              return False
```

其中左边是最新内容，右边是之前该版本的内容。

另外，如果需要还可以在查看历史版本时，根据不同条件筛选，比如根据作者、

即可只查看某人的提交的代码：



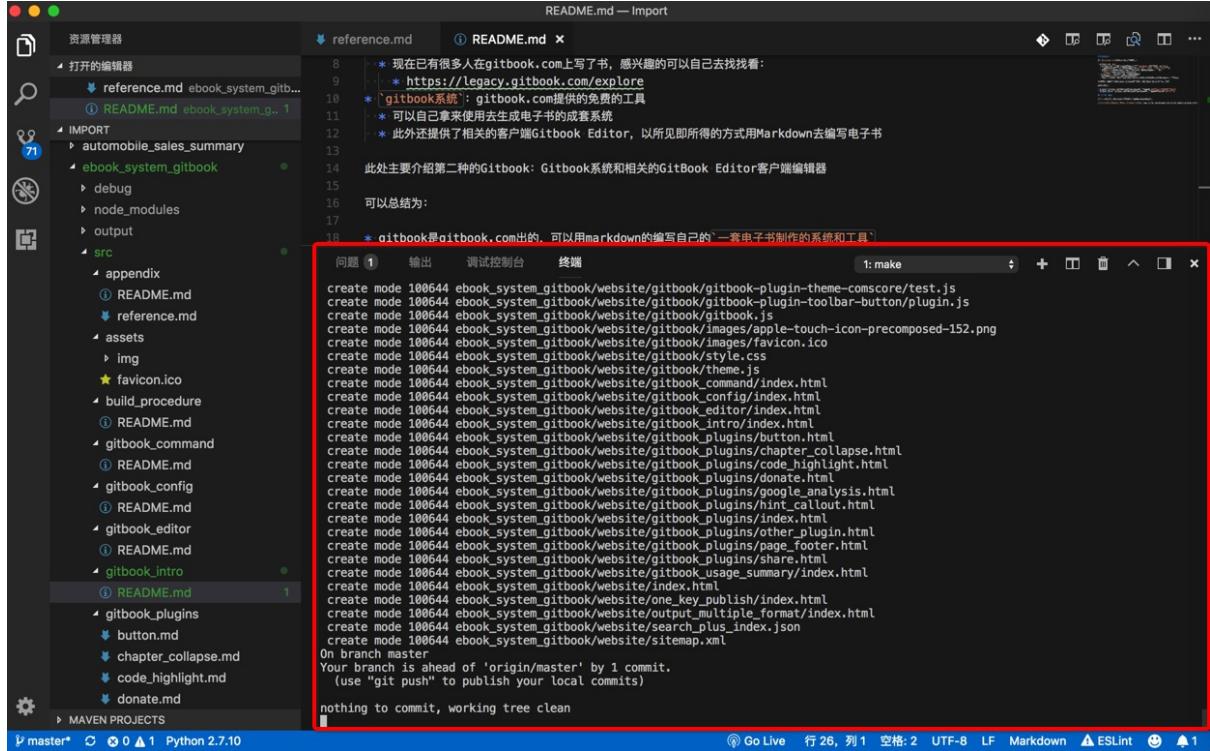
crifan.com, 使用[知识署名-相同方式共享4.0协议](#)发布 all right reserved, powered by Gitbook该文件修订时间: 2019-03-16 21:09:14

# 集成终端

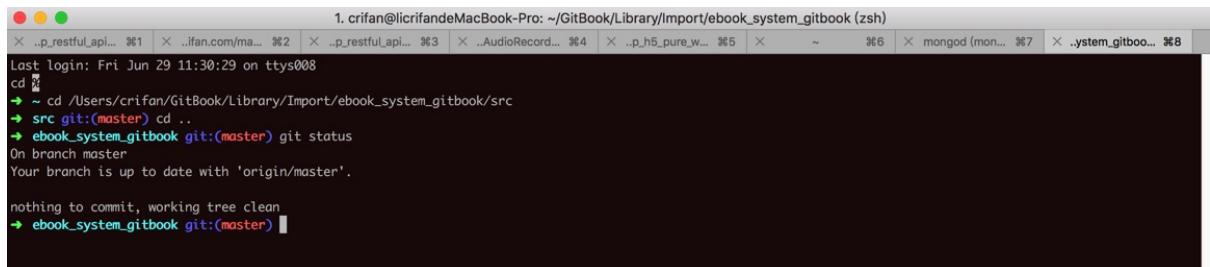
VSCode内置了终端：

查看 -> 终端

即可打开自带集成的终端：



不用再去切换到外部的终端命令行：



直接可以方便的在一个工具界面下，同时处理不同的事情了。

另外一个例子：

```

1 README.md — crifan_ebook_readme
212
213     ### 上层软件
214
215     对于上层软件方面，也有一些总结：
216
217     #### 上层软件的通用知识
218
219     关于后台开发和设计接口，移动端调用后台接口，测试人员测试接口和网页等相关的：
220
221     和HTTP方面的知识：
222
223     * [HTTP知识总结](https://book.crifan.com/books/http_summary/website/)
224

no changes added to commit (use "git add" and/or "git commit -a")
+ crifan_ebook_readme git:(master) ✘ git add *
+ crifan_ebook_readme git:(master) ✘ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    modified:   "Crifan\347\232\204\347\224\265\345\255\220\344\271\246\347\232\204\344\275\277\347\224\250\350\257\264\346\230\216.html"
    modified:   "Crifan\347\232\204\347\224\265\345\255\220\344\271\246\347\232\204\344\275\277\347\224\250\350\257\264\346\230\216.pdf"
    modified:   README.md

+ crifan_ebook_readme git:(master) ✘ git commit -m "1. update links 2. added gitbook and markdown"
[master dad4f69] 1. update links 2. added gitbook and markdown
  3 files changed, 65 insertions(+), 38 deletions(-)
   rewrite "Crifan\347\232\204\347\224\265\345\255\220\344\271\246\347\232\204\344\275\277\347\224\250\350\257\264\346\230\216.pdf" (79%)
+ crifan_ebook_readme git:(master) ✘ git push
Counting objects: 5, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 119.47 KiB | 19.91 MiB/s, done.
Total 5 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/crifan/crifan_ebook_readme.git
  de48685..dad4f69 master --> master
+ crifan_ebook_readme git:(master) ✘

```

在更新了git中源码后，再去上传，直接在集成终端中进行，很方便。

## 且支持多个终端

可以点击 加号去新增额外的终端，用于不同的用途。

实际使用场景举例：

比如此处在当前项目所在文件夹下，用git去管理代码：

```

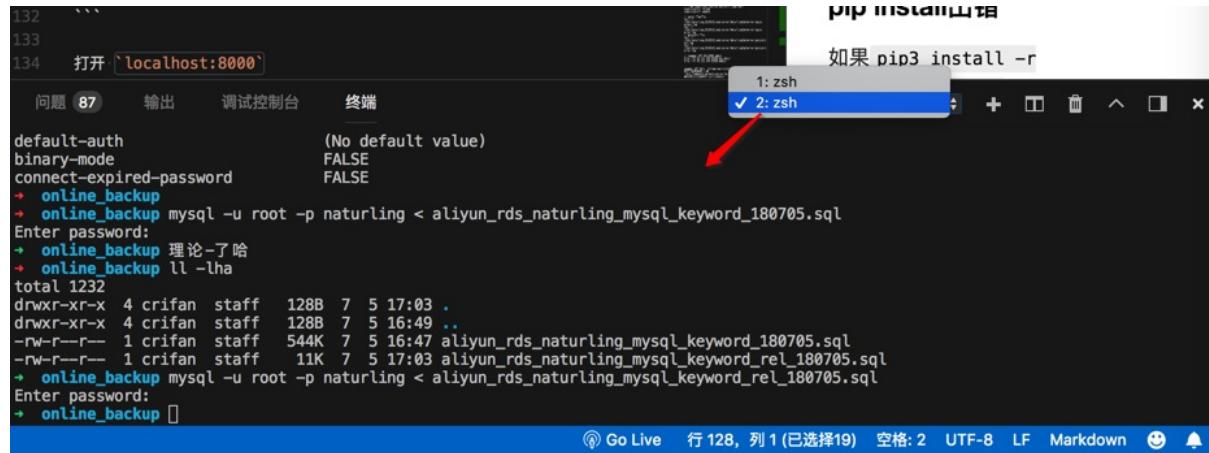
130 ./manage.py add_initial_function_group // 添加上面异步创建的超级用户
至默认功能组
131 ./manage.py runserver_plus
...
133
134 打开 `localhost:8000`]

问题 87      输出      调试控制台      终端
1: zsh
modified: README.md

+ NaturlingCmsServer git:(master) ✘ git commit -m "1. update readme for pip install error"
[master d061b3d] 1. update readme for pip install error
  1 file changed, 30 insertions(+), 2 deletions(-)
+ NaturlingCmsServer git:(master) ✘ git push
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 770 bytes | 770.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0)
remote: Powered by Gitee.com
To https://gitee.com/naturling_tech/NaturlingCmsServer.git
  ae08a9d..d061b3d master --> master
+ NaturlingCmsServer git:(master) ✘

```

然后需要切换到另外一个目录，去导入mysql，所以点击+去新建终端，处理mysql：



```

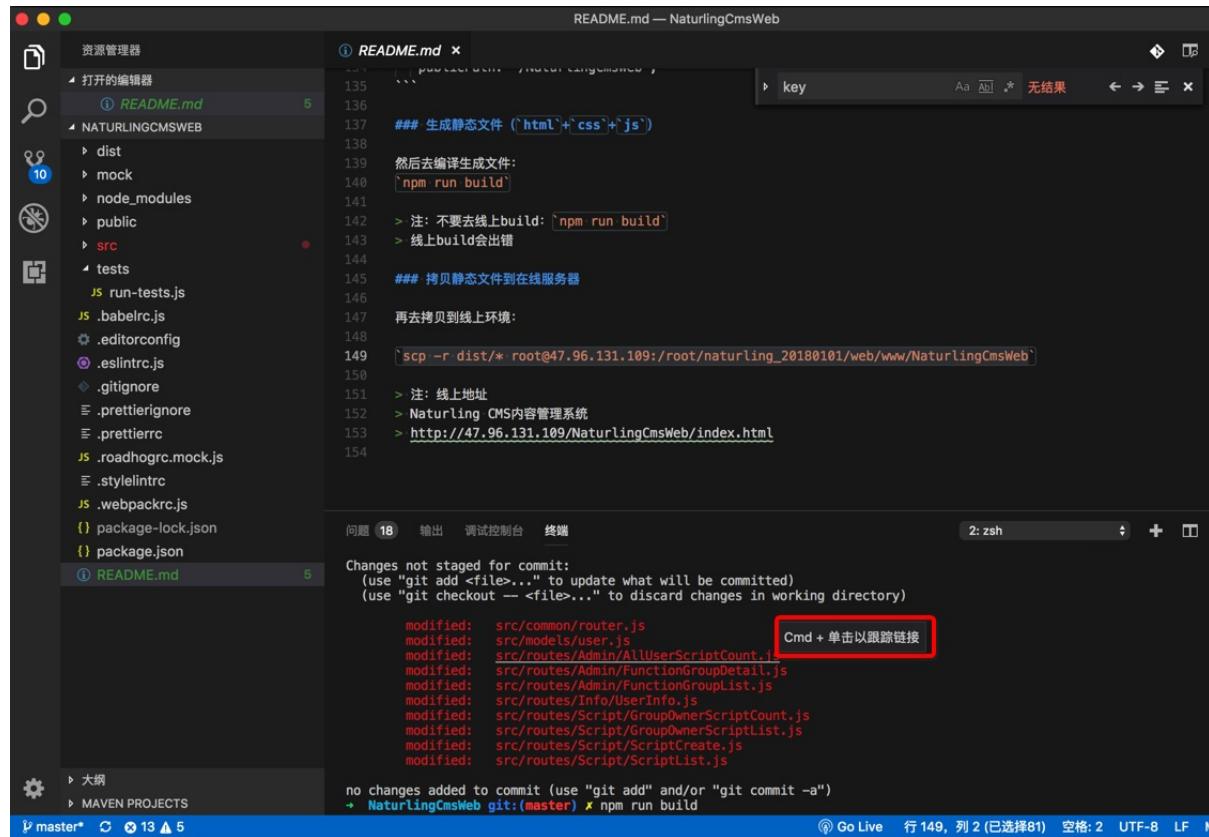
132  ```
133
134 打开 'localhost:8000'
问题 87    输出    调试控制台    终端    1: zsh
default-auth          (No default value)
binary-mode          FALSE
connect-expired-password  FALSE
→ online_backup
→ online_backup mysql -u root -p naturling < aliyun_rds_naturling_mysql_keyword_180705.sql
Enter password:
→ online_backup 理论-了哈
→ online_backup ll -lha
total 1232
drwxr-xr-x  4 crifan  staff   128B 7 5 17:03 .
drwxr-xr-x  4 crifan  staff   128B 7 5 16:49 ..
-rw-r--r--  1 crifan  staff   544K 7 5 16:47 aliyun_rds_naturling_mysql_keyword_180705.sql
-rw-r--r--  1 crifan  staff   11K 7 5 17:03 aliyun_rds_naturling_mysql_keyword_rel_180705.sql
→ online_backup mysql -u root -p naturling < aliyun_rds_naturling_mysql_keyword_rel_180705.sql
Enter password:
→ online_backup []

```

Go Live 行 128, 列 1 (已选择19) 空格: 2 UTF-8 LF Markdown 🎉 🚙

## 集成的终端中对于git的支持很好

在VSCode的集成的终端中，除了git的颜色看起来很清晰明确，且git的commit后的log中，都可以识别commit哪些文件了：



README.md — NaturlingCmsWeb

资源管理器

- 打开的编辑器
  - ① README.md 5
- NATURLINGCMSWEB
  - dist
  - mock
  - node\_modules
  - public
  - src
    - tests
      - JS run-tests.js
      - .babelrc.js
      - .editorconfig
      - .eslintrc.js
      - .gitignore
      - .prettierrc
      - .roadhogrc.mock.js
      - .stylelintrc
      - .webpackrc.js
    - {} package-lock.json
    - {} package.json
- ① README.md 5

问题 18 输出 调试控制台 终端 2: zsh

```

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   src/common/router.js
        modified:   src/models/user.js
        modified:   src/routes/Admin/AllUserScriptCount.js
        modified:   src/routes/Admin/FunctionGroupDetail.js
        modified:   src/routes/Admin/FunctionGroupList.js
        modified:   src/routes/Info/UserInfo.js
        modified:   src/routes/Script/GroupOwnersScriptCount.js
        modified:   src/routes/Script/GroupOwnerScriptList.js
        modified:   src/routes/Script/ScriptCreate.js
        modified:   src/routes/Script/ScriptList.js

no changes added to commit (use "git add" and/or "git commit -a")
→ NaturlingCmsWeb git:(master) × npm run build

```

Go Live 行 149, 列 2 (已选择81) 空格: 2 UTF-8 LF N

且Command+鼠标点击可以直接跳转打开对文件：

The screenshot shows a GitHub repository interface. The left sidebar displays a file tree for the 'NATURLINGCMSWEB' branch. The 'AllUserScriptCount.js' file is selected, showing its code and a list of 19 changes (indicated by red dots). The right pane shows the file content with syntax highlighting and a commit message.

```
import React, { PureComponent, Fragment } from 'react';
import { connect } from 'dva';
import {
  Card,
  Form,
} from 'antd';
import { routerRedux } from 'dva/router';
import SimpleTable from 'components/SimpleTable';
import PageHeaderLayout from '../../../../../layouts/PageHeaderLayout';
import styles from '../List/TableList.less';

// @connect(({ script, loading }) => ({
@connect(({ script }) => ({
  script,
  // loading: loading.models.script,
}))
@Form.create()
export default class AllUserScriptCount extends PureComponent {
  state = {
    formValues: {},
```

问题 19    输出    调试控制台    终端

Changes not staged for commit:  
(use "git add <file>..." to update what will be committed)  
(use "git checkout -- <file>..." to discard changes in working directory)

```
modified: src/common/router.js
modified: src/models/user.js
modified: src/routes/Admin/AllUserScriptCount.js
modified: src/routes/Admin/FunctionGroupDetail.js
modified: src/routes/Admin/FunctionGroupList.js
modified: src/routes/Info/UserInfo.js
modified: src/routes/Script/GroupOwnerScriptCount.js
modified: src/routes/Script/GroupOwnerScriptList.js
modified: src/routes/Script/ScriptCreate.js
modified: src/routes/Script/ScriptList.js
```

no changes added to commit (use "git add" and/or "git commit -a")  
→ **NaturlingCmsWeb** git:(master) × npm run build

-》正好省去了我本身要去：找找刚才已经git的commit并push了哪些文件，直接在VSCode的git的log中找到并打开相应文件了，很方便。

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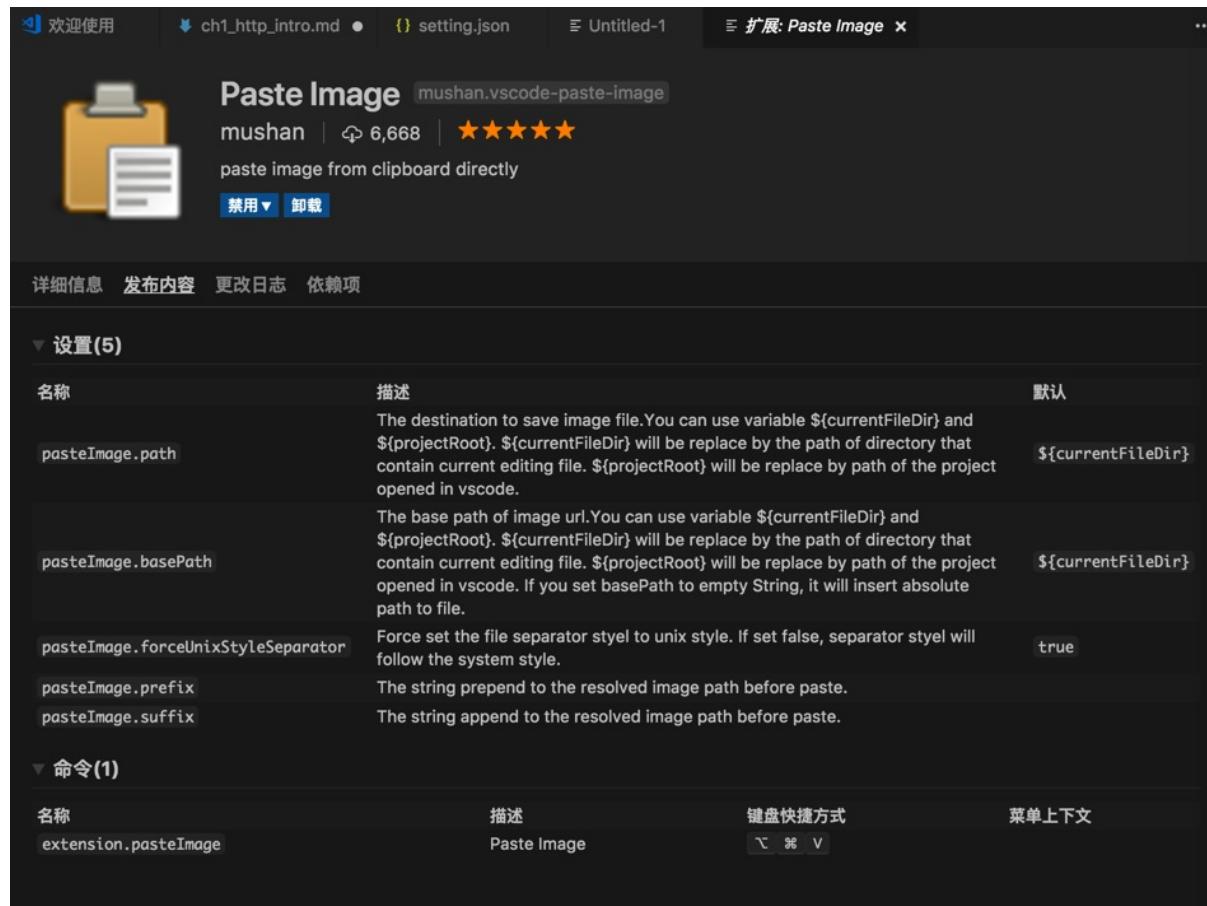
# 插件

## 配置插件的参数

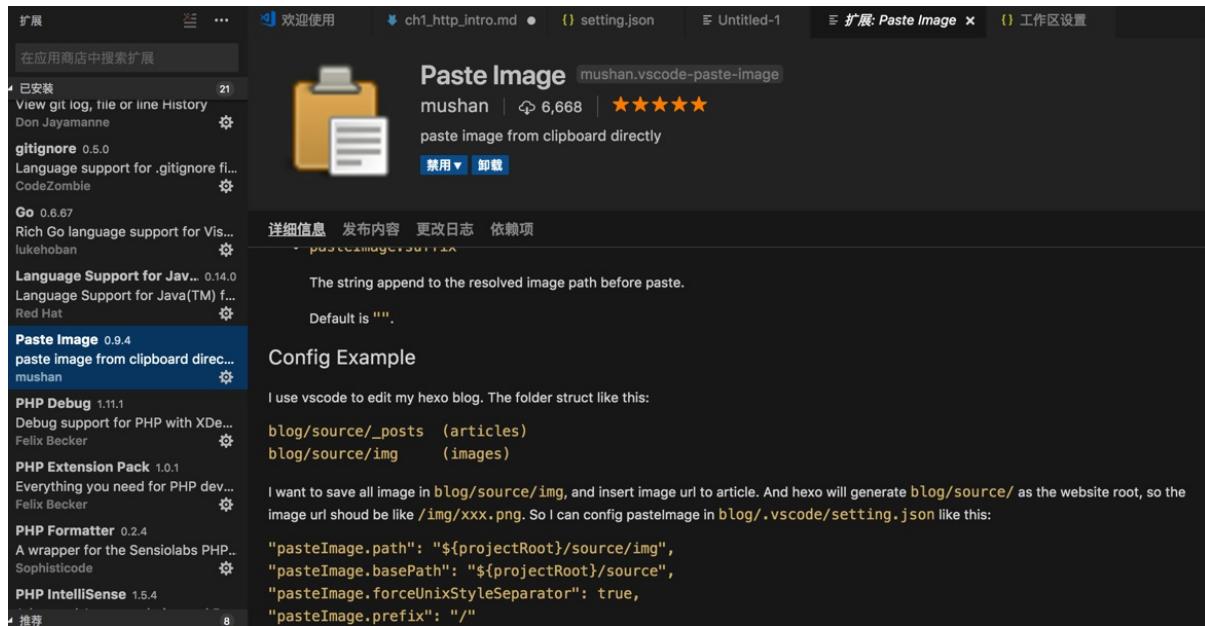
下面通过插件 [Paste Image](#) 为例，来解释，如何配置插件的参数。

此处需求：希望能设置保存图片到当前项目下的 assets/img 中

首先要去搞清楚，插件本身支持哪些参数设置，可以从 [发布内容](#) 中看到：



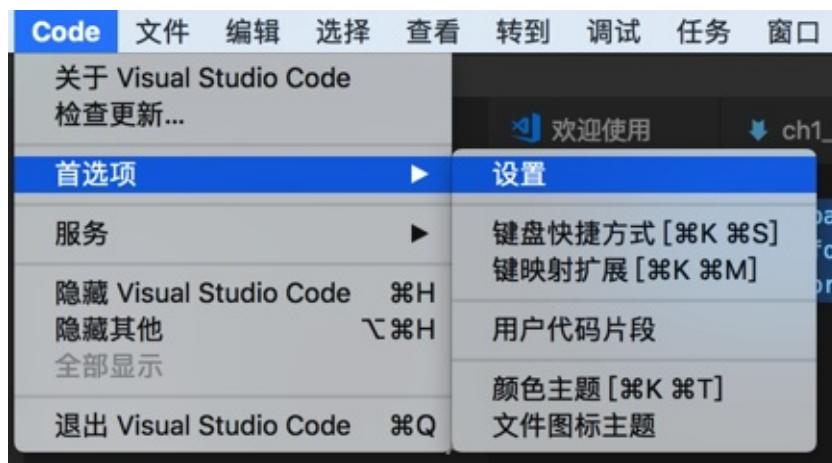
以及有些插件的 [详细信息](#) 中也有关于参数设置的解释和举例：



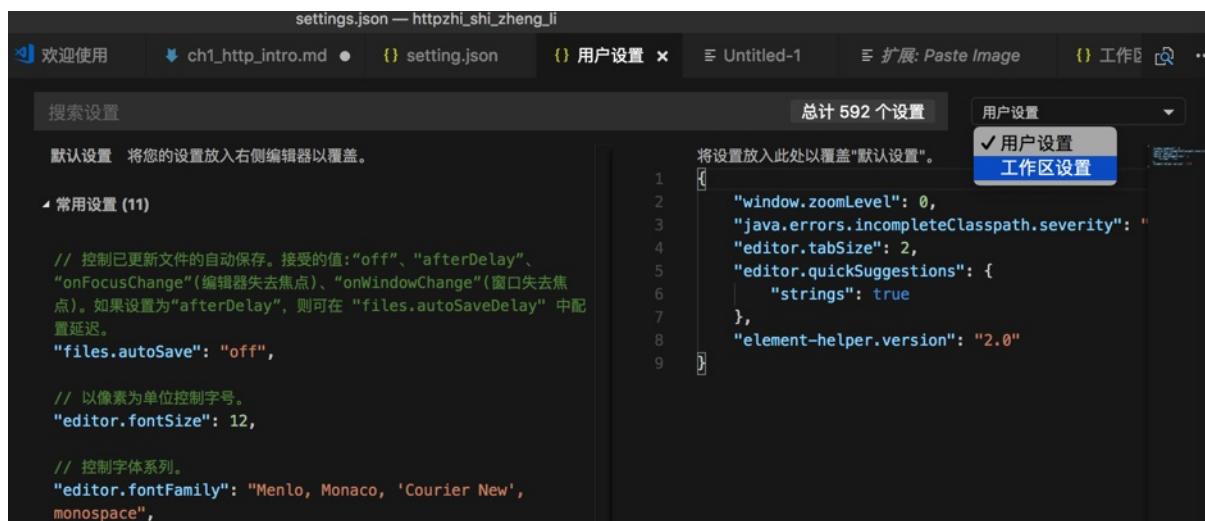
此处能看到与此处截图保存路径相关参数是： `pasteImage.path` , `pasteImage.forceUnixStyleSeparator` , `pasteImage.prefix`

然后去设置插件参数：

Code -> 首选项 -> 设置 :



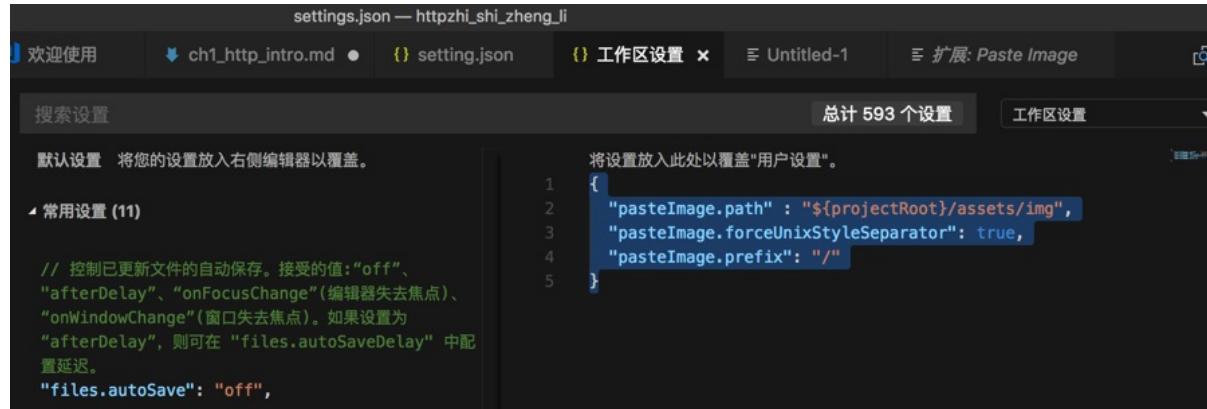
从 用户 切换到 工作区设置 :



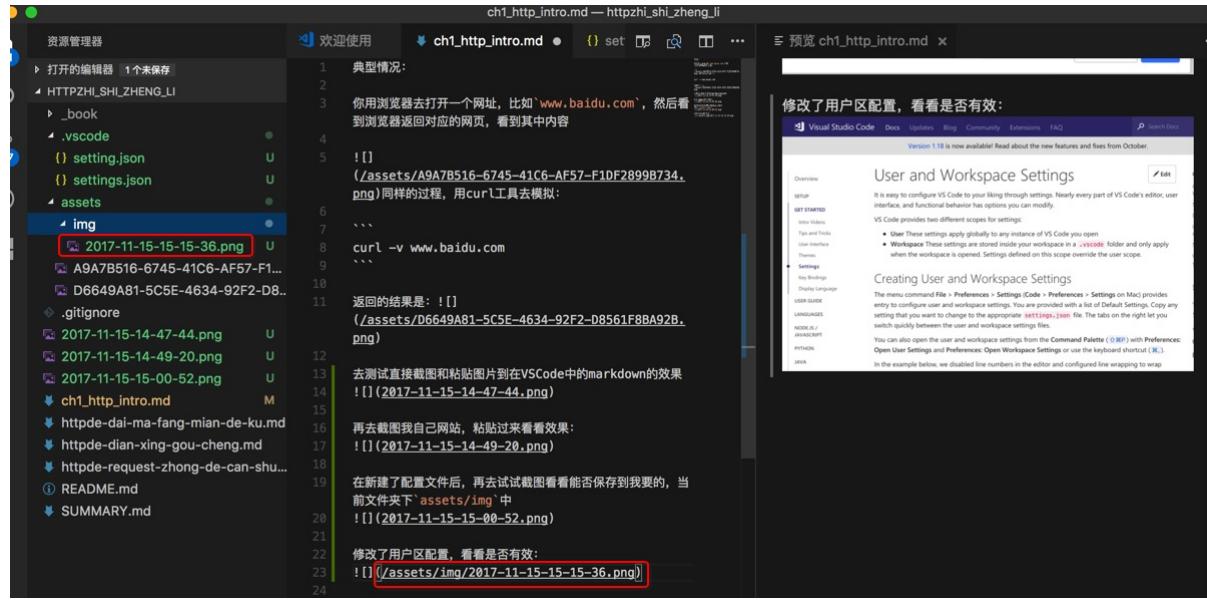
然后把此处相关配置：

```
{
  "pasteImage.path": "${projectRoot}/assets/img",
  "pasteImage.forceUnixStyleSeparator": true,
  "pasteImage.prefix": "/"
}
```

放进去并保存：



然后再去粘贴图片，然后就生效了，新粘贴的图片就自动保存到希望的目录 assets/img 下了：



详见： [【已解决】VSCode中如何给插件进行参数配置](#)

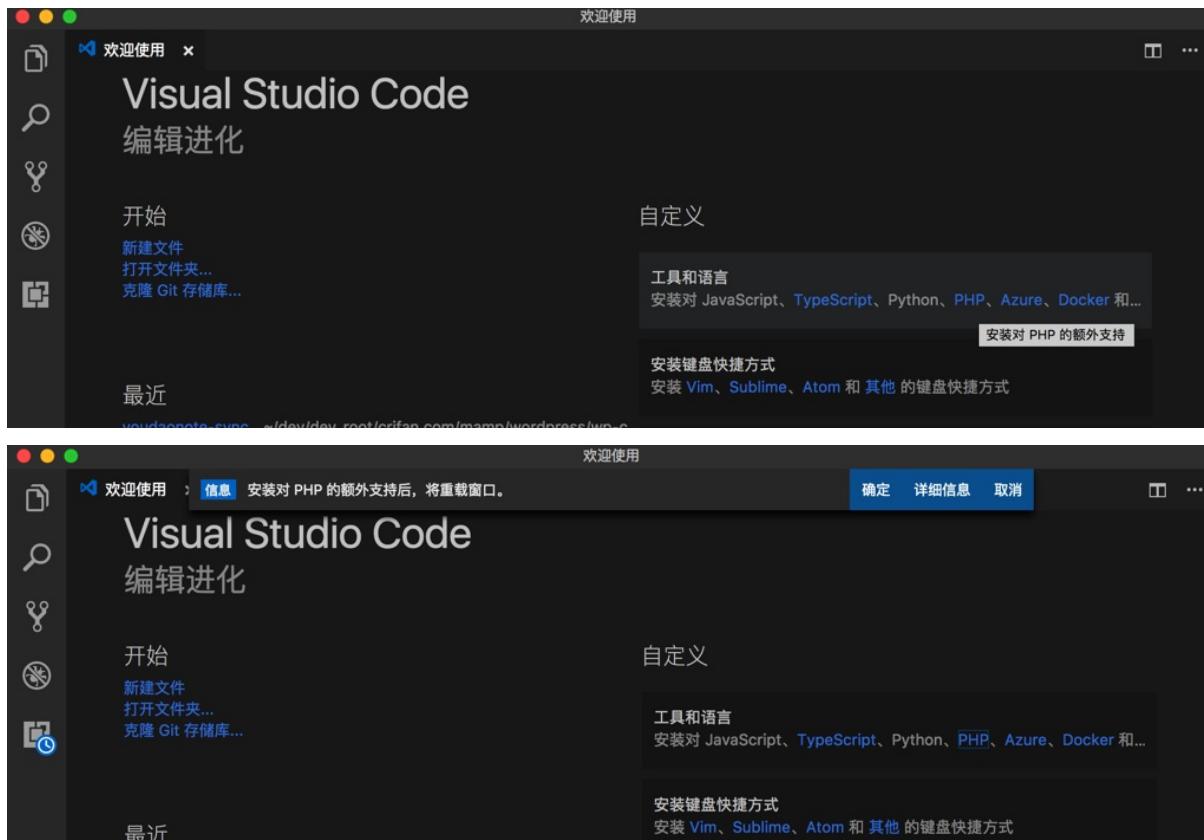
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# 插件市场

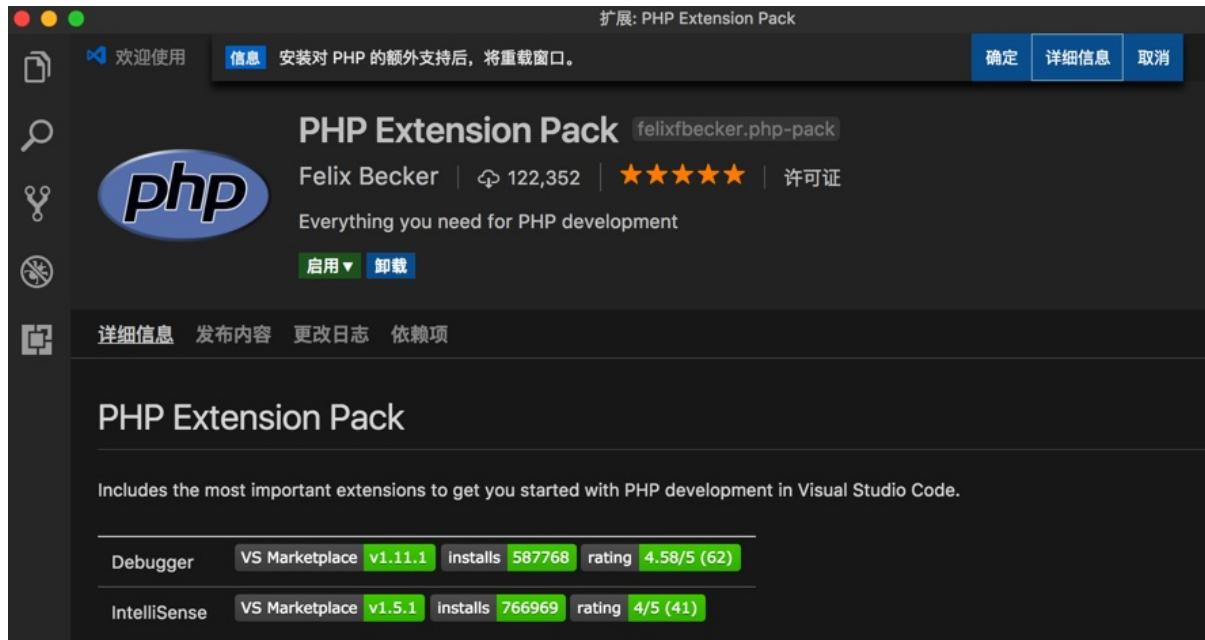
为了支持更多功能和语言，可以通过插件实现。

## 安装插件很方便

比如此处想要添加PHP语言的支持，可以在这里直接点击PHP：

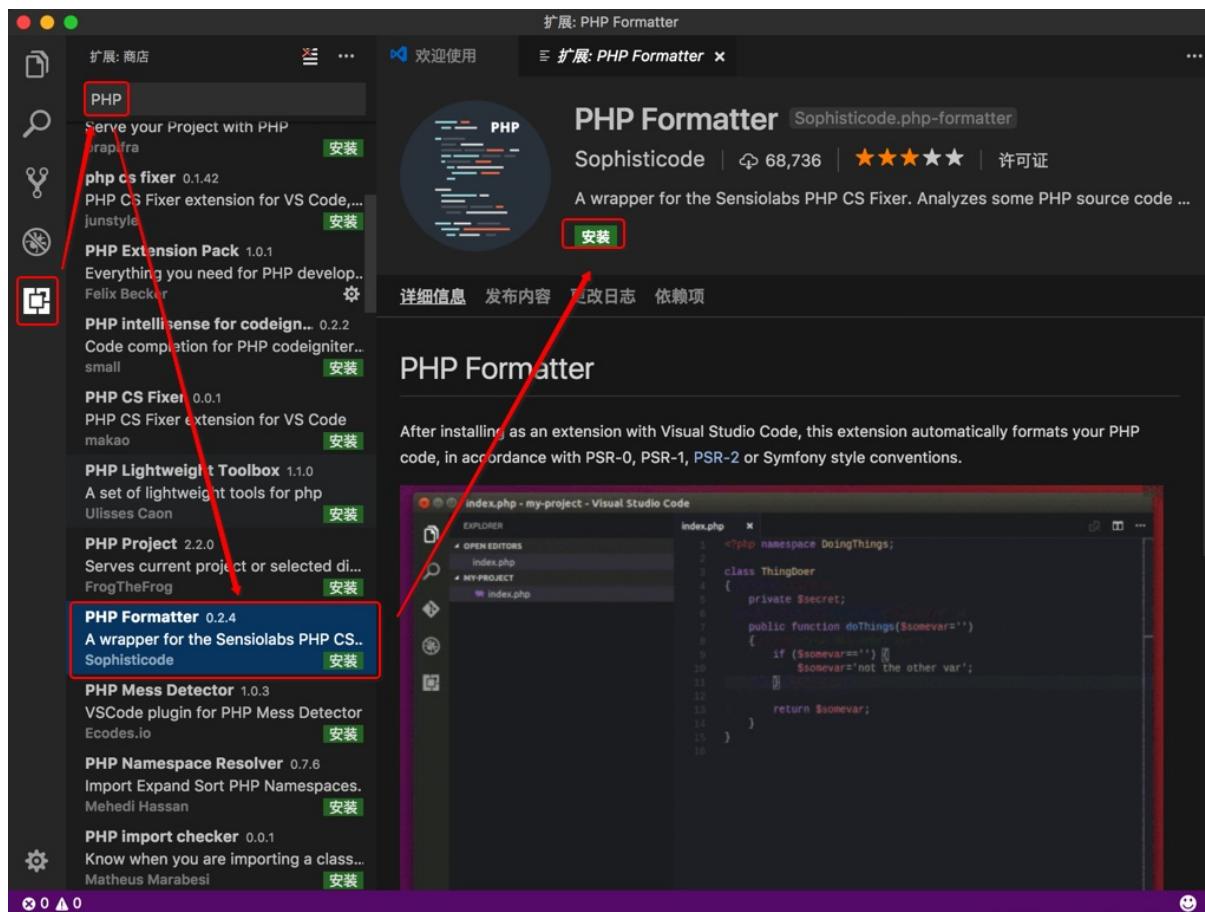


点击详细信息：

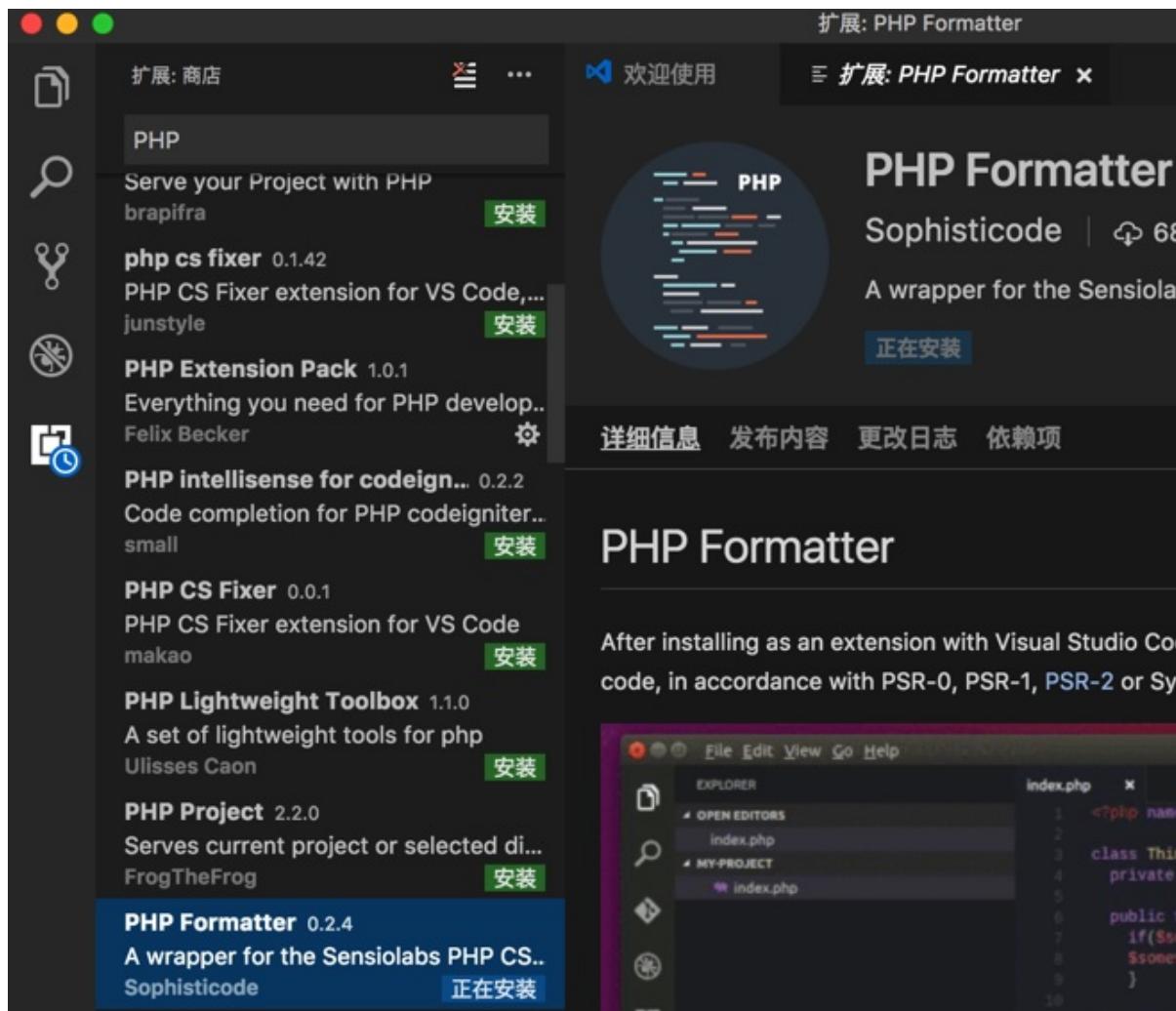


其实更常见的做法是：

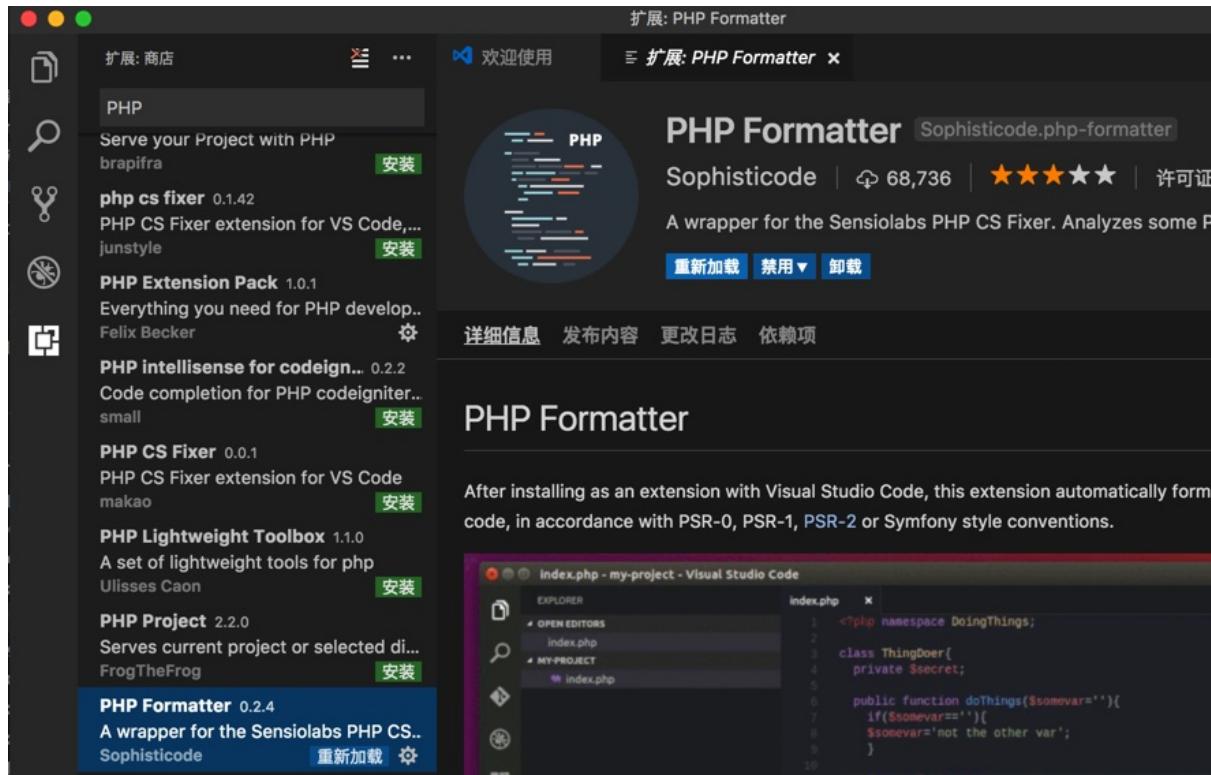
扩展 -> 输入框中输入： PHP -> 点击某个插件的： 安装



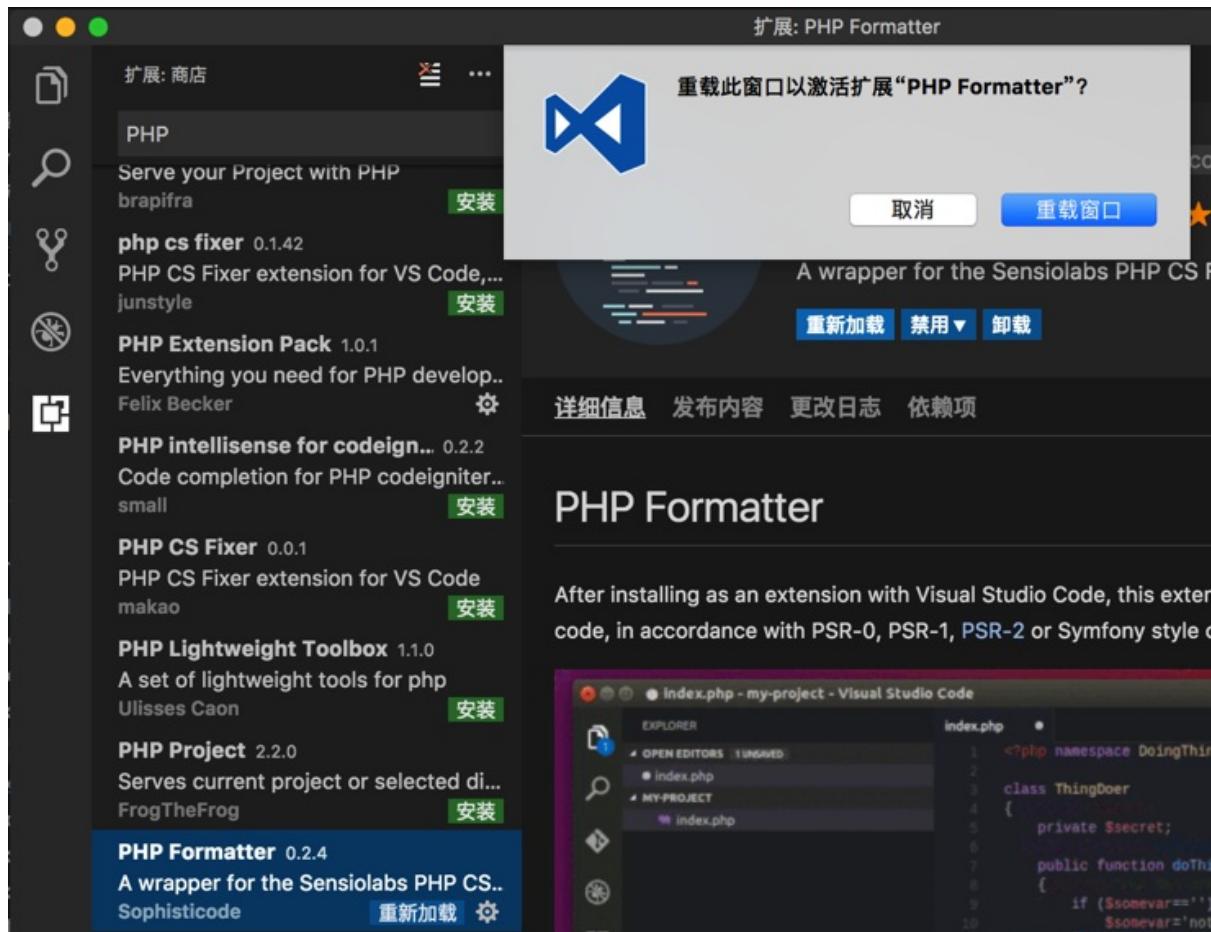
即可安装：



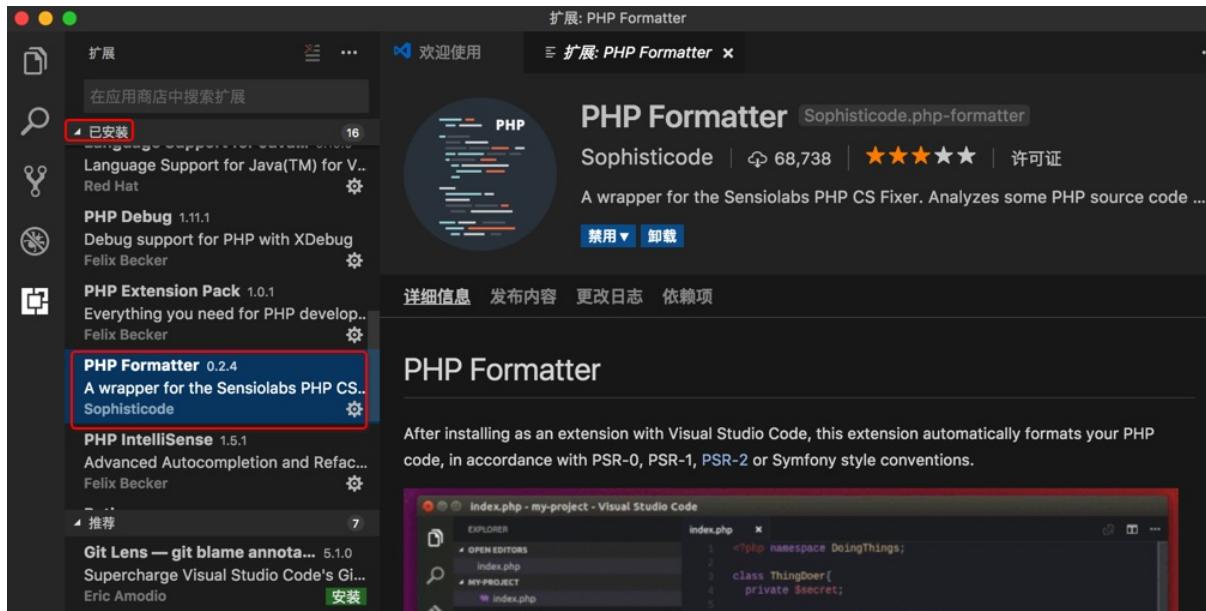
安装后，提示重启：



点击重新加载：



重启VSCode后，即可看到已安装该插件：



注：后来新版VSCode，对于某些插件，安装后，无需重启即可使用。更方便。

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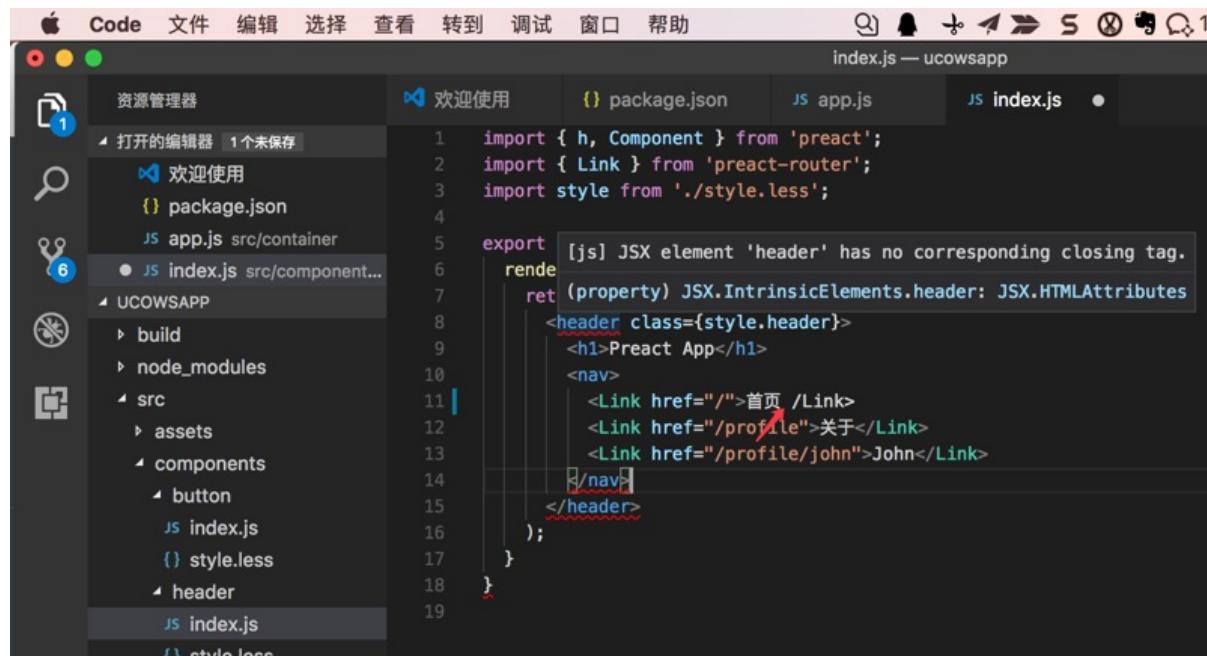
## 常用插件

### 其他一些插件

### 代码语法检测

插件: [Microsoft/vscode-eslint: VSCode extension to integrate eslint into VSCode](#)

作用: 代码语法出错时可以检测出并提示你:



详见: [【记录】给VSCode装插件: eslint](#)

### editorconfig

插件地址: [editorconfig/editorconfig-vscode: EditorConfig extension for Visual Studio Code](#)

作用: 通过 `.editorconfig` 文件覆盖重写VSCode相关配置, 而无法独立的 `.vscode` 文件夹 (及其中的一堆配置文件)

详见: [【记录】给VSCode装插件: editorconfig](#)

## 安装插件心得

Could not install packages due to an EnvironmentError Errno 13 Permission denied

原因: 安装Python相关库时没权限

办法: `python -m pip install -U pylint --user`

详见: [【已解决】VSCode提示安装lint出错: Could not install packages due to an EnvironmentError Errno 13 Permission denied](#)

03-17 12:21:28

# Markdown Preview Enhanced

TODO:

- 预览的效果好
- 快速生成文件
  - html
  - pdf
  - 图片: png/jpg等

插件地址: [Markdown Preview Enhanced - Visual Studio Marketplace](#)

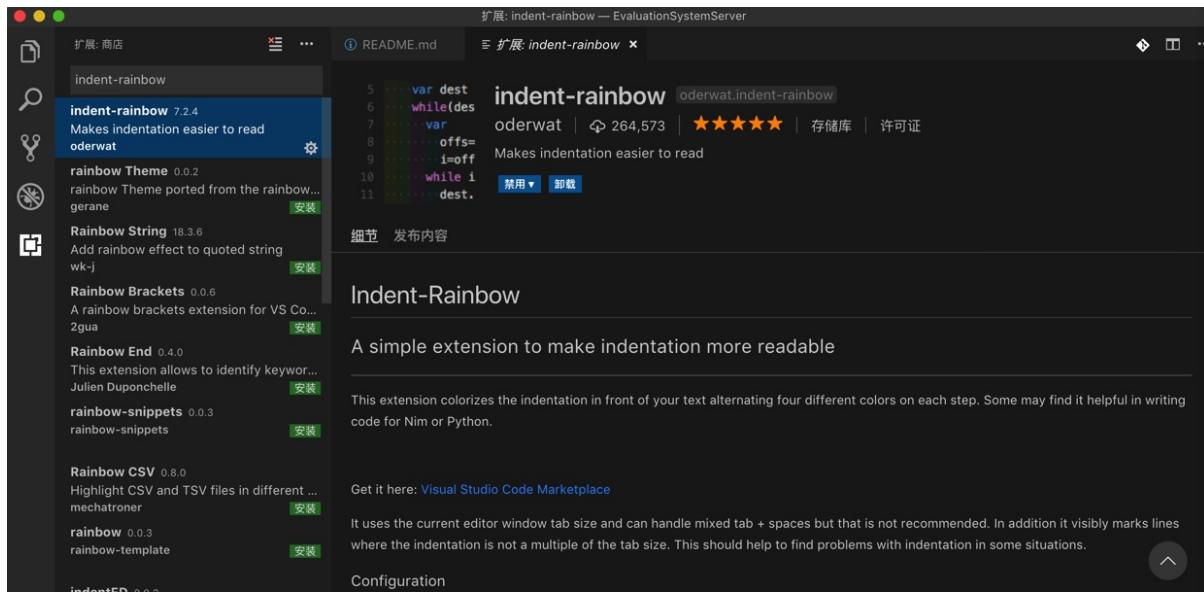
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# indent-rainbow

插件地址：[indent-rainbow - Visual Studio Marketplace](#)

作用：高亮（每行代码之前的）缩进

安装 indent-rainbow：



效果：

- 对于 Python 代码效果：更方便清晰的看到代码的缩进

◦

- 对于 HTML 效果：方便看清是哪个元素

- - 对于缩进层次较多的：效果尤其明显

# Bracket Pair Colorizer

TODO:

- 列出来括号高亮的效果，尤其是多组嵌套括号

插件地址：[Bracket Pair Colorizer - Visual Studio Marketplace](#)

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# Paste Image

TODO:

- 支持markdown中快速粘贴图片，很好用

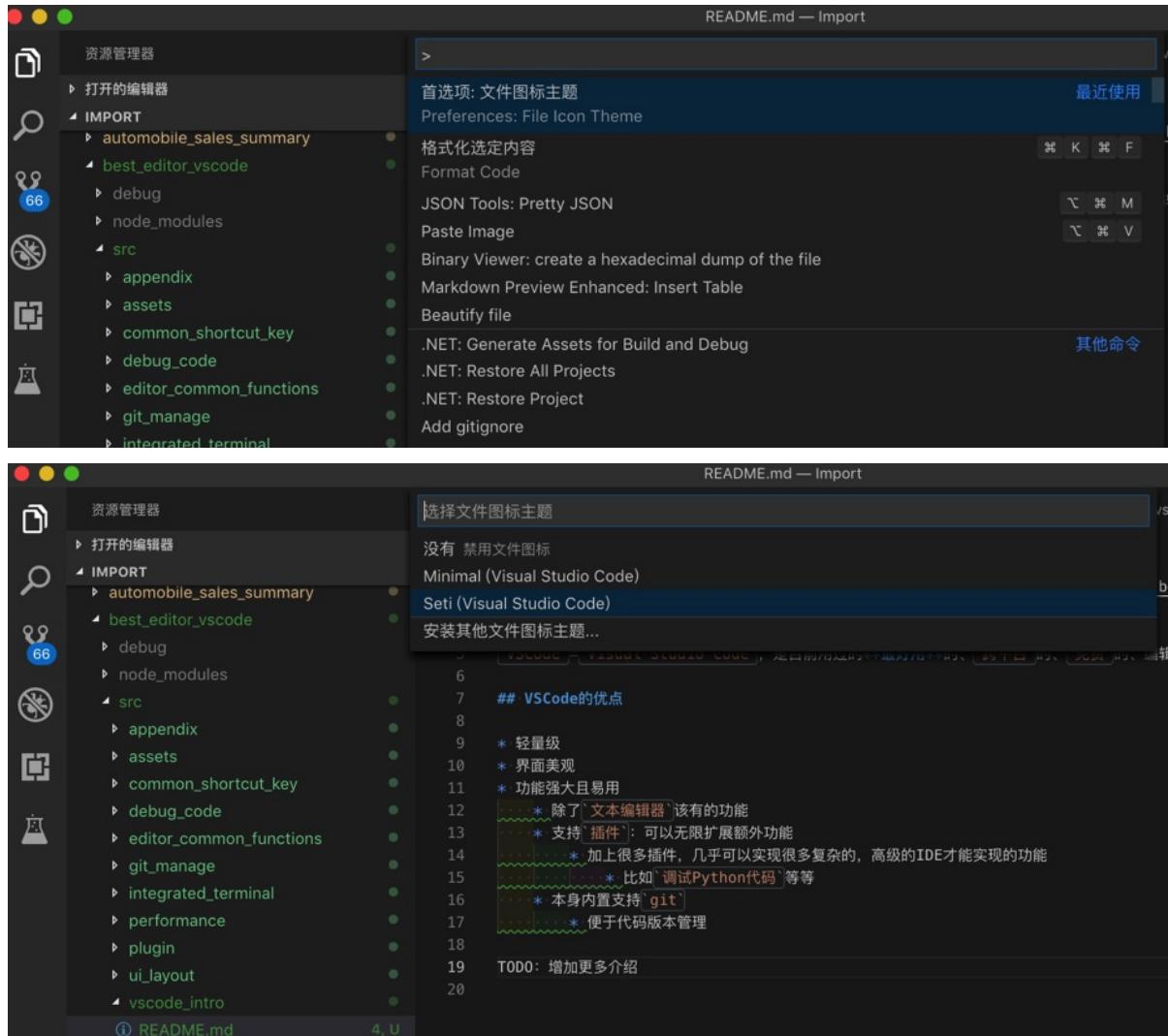
插件地址：[Paste Image - Visual Studio Marketplace](#)

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# 文件图标主题

vsCode 支持给文件的图标设置不同的主题。

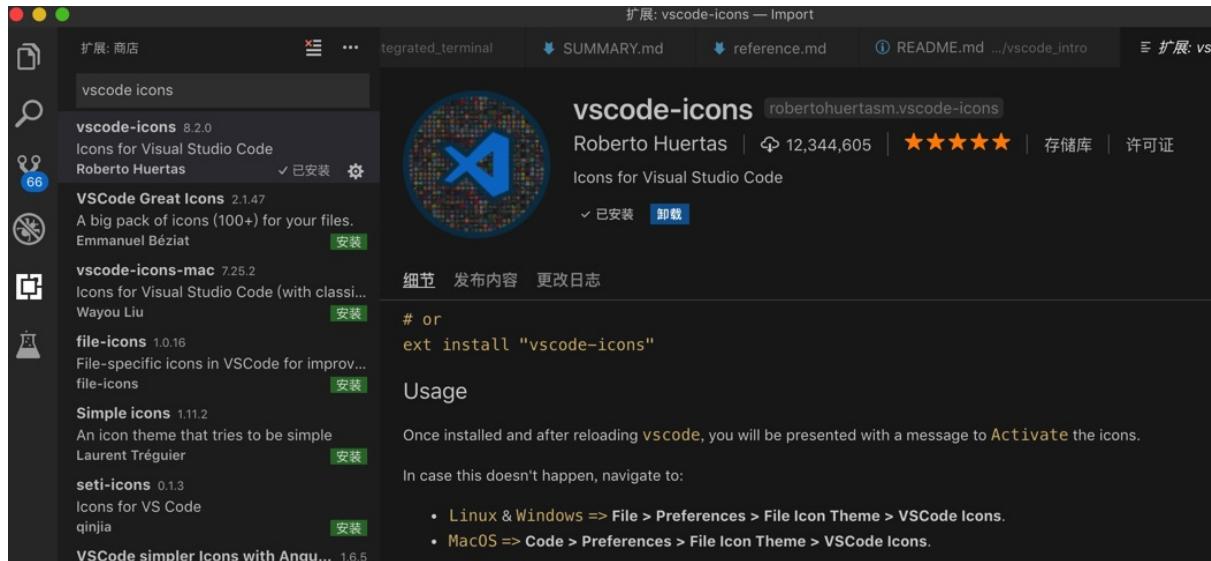
默认是 Seti 主题，效果是：



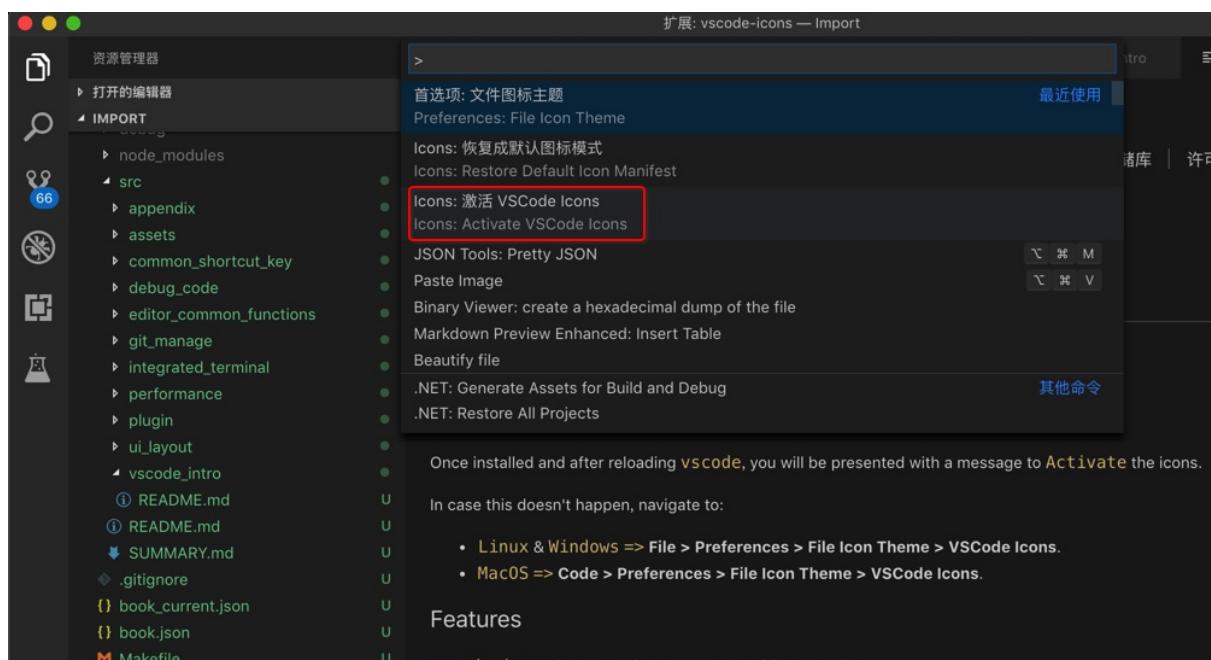
有其他新的图标的主题，比如：

[vscode-icons](#)

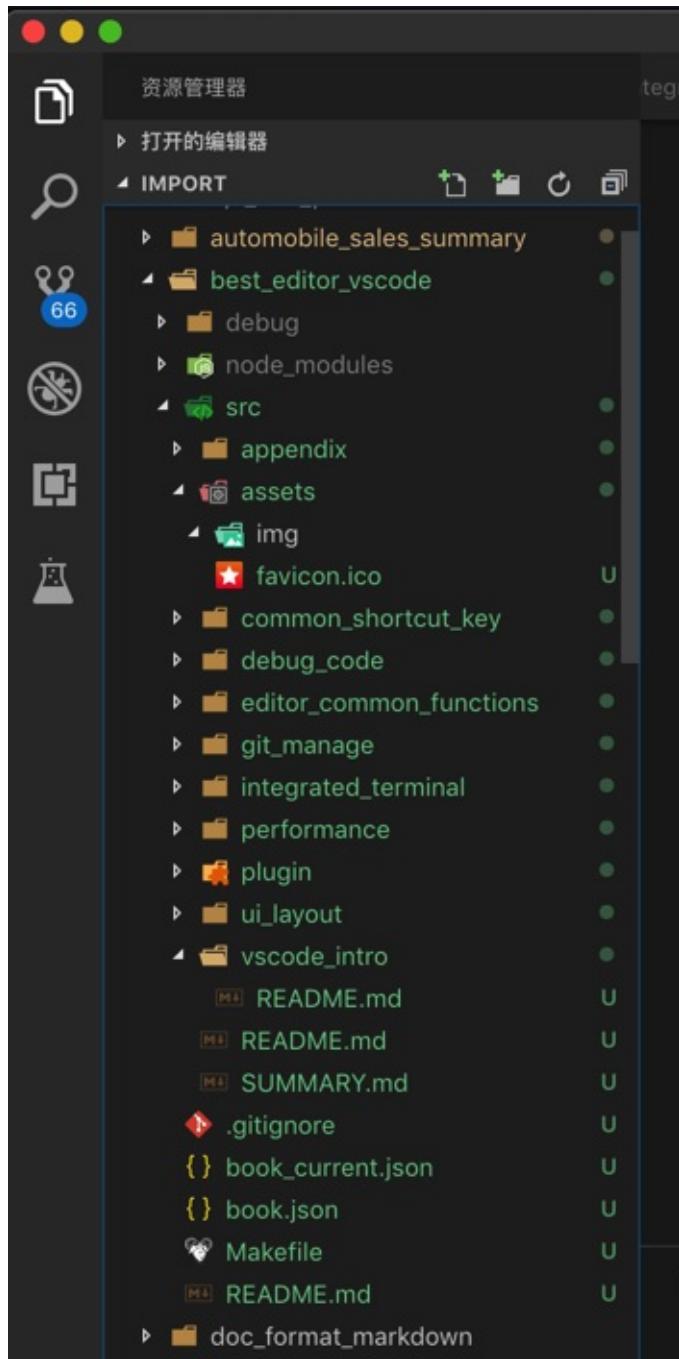
去安装：



之后再去激活：

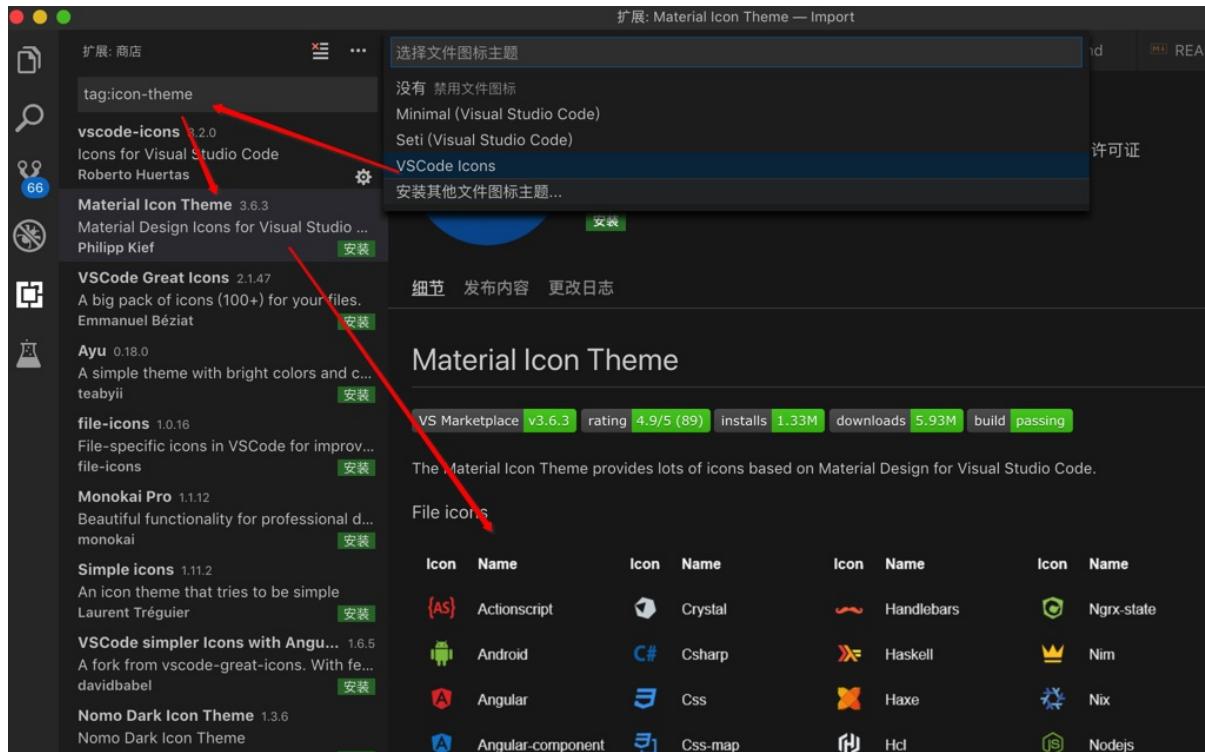


后的效果：



很不错，图标很丰富，识别度比较高。

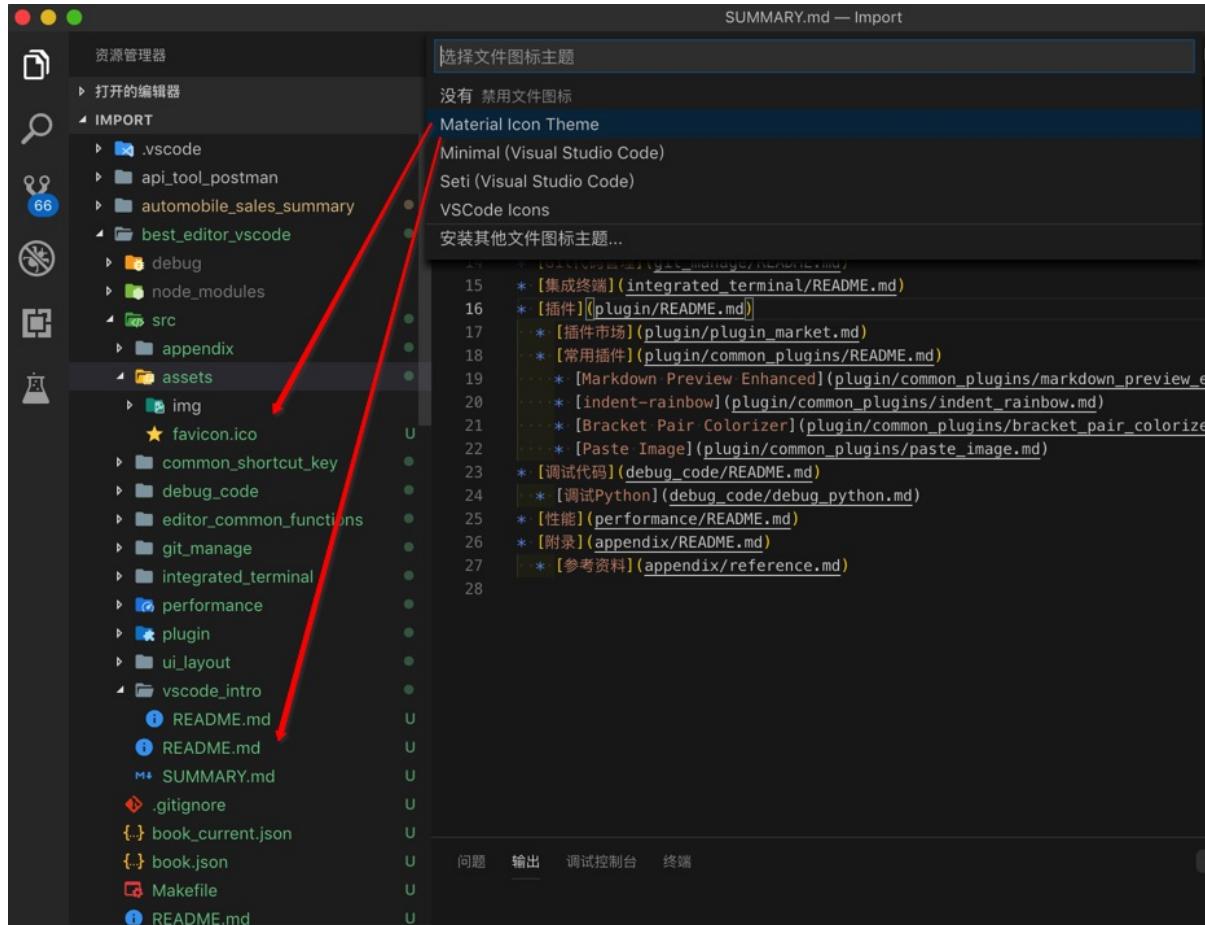
另外，可以再去根据提示去安装其他版本图标的主题：



然后去安装另外一个：

### Material Icon Theme

后，去换成该主题：



感觉比前面的 `vscode-icons` 更好看，更现代化些。

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## 调试代码

VSCode可以通过内置功能和安装插件，实现支持调试多种代码。

比如下面要介绍的 Python。

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## 调试Python

VSCode支持调试Python代码：

之前去试了：

[【已解决】VSCode中调试Python代码](#)

[【记录】用VSCode开发和调试Python](#)

效果很好。

## 设置Python解析器

### 手动设置选择Python版本

调试之前，先要设置Python解析器。

对于python代码中：

```
#!/usr/bin/python  
# -*- coding: utf-8 -*-
```

其可以自动检测出当前的第一行的解析器，然后显示出 `Set as interpreter`，如果点击了：

generateBookJson.py — Import

{ } a.json { } b.json { } c.json generateB

[Set as interpreter](#)

```
1 #!/usr/bin/python
2 # -*- coding: utf-8 -*-
3
4 CurrentGitbookName = "youdao_note_summary"
5 BookJsonTemplateFilename = "book_common.json"
6 BookJsonCurrentFilename = "book_current.json"
7 BookJsonOutputFilename = "book.json"
8 # BookJsonTemplateFilename = "a.json"
```

问题 输出 调试控制台 终端

```
u'vk': False,
u'weibo': True,
u'whatsapp': False},
u'sitemap-general': {u'prefix': u'http
ebsite/'},
u'tbfed-pagefooter': {u'copyright': u"
tivecommons.org/licenses/by-sa/4.0/deed.zh">\u77e5\u8bc6\u
0\u534f\u8bae</a>\u53d1\u5e03",
u'modify_format':
u'modify_label':
1a'},
u'theme-default': {u'showLevel': True}
u'toolbar-button': {u'icon': u'fa-file',
u'label': u'\u4e0b',
u'url': u'http://b
ao_note_summary.p[f']},
u'root': u'./src',
u'title': u'\u670d\u9053\u4e91\u7b14\u8bb0\u548c\u4e91\u5
bookJsonFullPath=/Users/crifan/GitBook/Library/Import/youd
→ Import []
```

自动附加: 关 Python 2.7.10 64-bit

则就可以从当前的解析器:

```
generateBookJson.py — Import
current: /usr/bin/python2.7
Anaconda custom (64-bit) Python 2.7.14 (base) Anaconda, Inc.
/Users/crifan/anaconda2/bin/python
Anaconda custom (64-bit) Python 2.7.14 (tensorflow) Anaconda, Inc.
/Users/crifan/anaconda2/envs/tensorflow/bin/python
Python 2.7.10 64-bit
/usr/bin/python2.7
Python 3.6.4
/usr/local/opt/python/bin/python3.6
Python 3.6.4 64-bit
/usr/local/bin/python3

    u'whatsapp': False},
    u'sitemap-general': {u'prefix': u'https://book.crifan.com/git
ebsite/'},
    u'tbfed-pagefooter': {u'copyright': u"crifan.com\uff0c\u4f7f
tivecommons.org/licenses/by-sa/4.0/deed.zh'\>\u77e5\u8bc6\u7f72\u540d-\u76f8\u540
0\u534f\u8bae</a>\u53d1\u5e03",
                           u'modify_format': u'YYYY-MM-DD HH:mm:ss',
                           u'modify_label': u'\u8be5\u6587\u4ef6\u
1a'},
    u'theme-default': {u'showLevel': True},
    u'toolbar-button': {u'icon': u'fa-file-pdf-o',
                        u'label': u'\u4e0b\u8f7dPDF',
                        u'url': u'http://book.crifan.com/books/y
ao_note_summary.pdf'}},
    u'root': u'./src',
    u'title': u'\u6709\u9053\u4e91\u7b14\u8bb0\u548c\u4e91\u534f\u4f5c\u4f7f\u7528\u
bookJsonFullPath=/Users/crifan/GitBook/Library/Import/youdao_note_summary/book.j
→ Import []
Import) 自动附加: 关 Python 2.7.10 64-bit 行 1, 列 1
```

换成代码中设置的解析器了：

generateBookJson.py — Import

{ a.json	{ b.json	{ c.json	generateBookJson.py ×
----------	----------	----------	-----------------------

```

1  #!/usr/bin/python
2  #-*- coding: utf-8 -*-
3
4  CurrentGitbookName = "youdao_note_summary"
5  BookJsonTemplateFilename = "book_common.json"
6  BookJsonCurrentFilename = "book_current.json"
7  BookJsonOutputFilename = "book.json"
8  # BookJsonTemplateFilename = "a.json"
9  # BookJsonCurrentFilename = "b.json"

```

问题    输出    调试控制台    终端

```

u'vk': False,
u'weibo': True,
u'whatsapp': False},
u'sitemap-general': {u'prefix': u'https://book.crifan
ebsite/'},
u'tbfed-pagefooter': {u'copyright': u"crifan.com\ufe0
tivecommons.org/licenses/by-sa/4.0/deed.zh'>\u77e5\u8bc6\u7f72\u540d-\u76
0\u534f\u8bae</a>\u63d1\u5e03",
u'modify_format': u'YYYY-MM-DD',
u'modify_label': u'\u8be5\u6587
1a'},
u'theme-default': {u'showLevel': True},
u'toolbar-button': {u'icon': u'fa-file-pdf-o',
u'label': u'\u4e0b\u8f7dPDF',
u'url': u'http://book.crifan.com/
ao_note_summary.pdf }},
u'root': u'./src',
u'title': u'\u6709\u9053\u4e91\u7b14\u8bb0\u548c\u4e91\u534f\u4f5c\u4f7f
bookJsonFullPath=/Users/crifan/GitBook/Library/Import/youdao_note_summary
+ Import []

```

自动附加: 关 Python 2.7.10

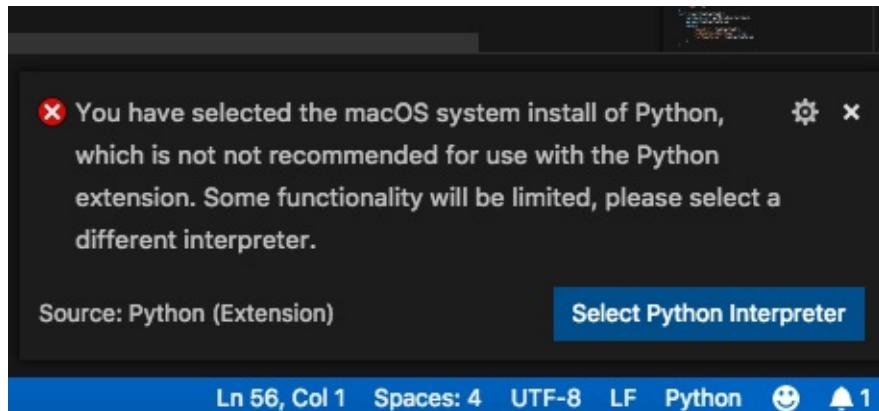
## 选择虚拟环境的Python版本

在用

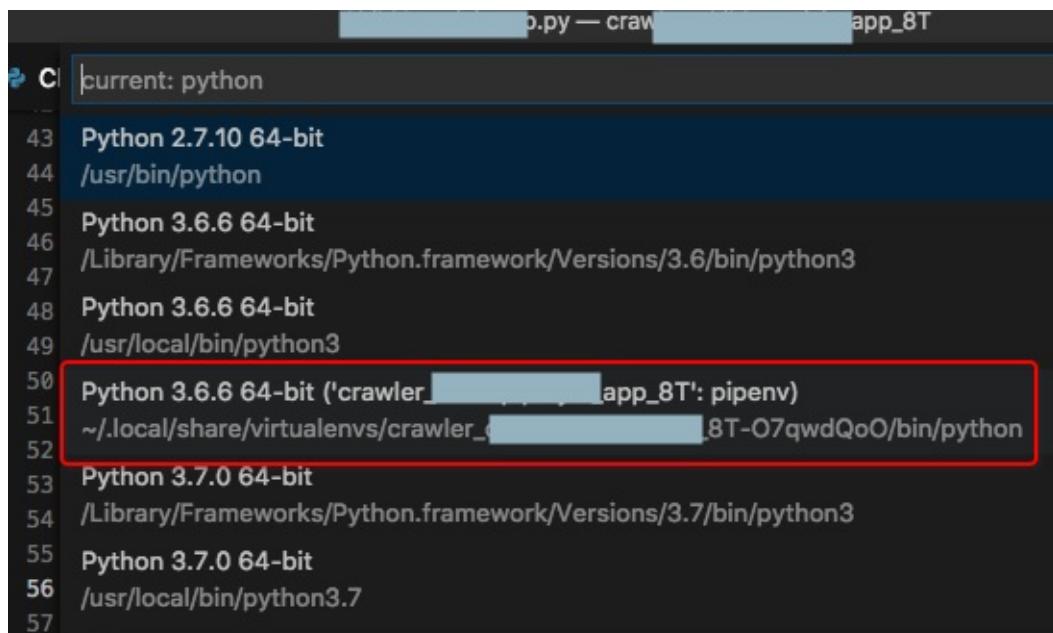
pipenv install

安装了虚拟环境的python项目后，重新用VSCode打开该项目，会提示你

You have selected the macOS system install of Python, which is not recommended for use with the Python extension. Some functionality will be limited, please select a different interpreter.



然后点击 `Select Python Interpreter`，去选择刚装好的虚拟环境中的python：



选择后，左下角就可以显示出当前所选Python了：

EXPLORER      ChildQupeiinApp.py ×

OPEN EDITORS

CRAV [REDACTED]\_8T

.vscode

output

[REDACTED].py

{ config.json

≡ Pipfile

{ Pipfile.lock

ⓘ README.md

43 def datetimeToTimestamp(self, datetimeVal):  
44 """  
45 convert datetime value to timestamp  
46 e.g:  
47 "2006-06-01 00:00:00.123"  
48 if with milliseconds -> 1  
49 :param datetimeVal:  
50 :return:  
51 """  
52 timetupleValue = datetimeVal.timetuple()  
53 timestampFloat = time.mktime(timetupleValue)  
54 timestamp10DigitInt = int(timestampFloat \* 1000)  
55 timestampInt = timestamp10DigitInt // 1000  
56  
57 if withMilliseconds:  
58 microsecondInt = datetimeVal.microsecond // 1000

TERMINAL    ...    1: bash

NaturlingdeMacBook-Pro:crawler\_

Linter pylint is not installed.

Source: Python (Extensi...    Insta

OUTLINE

Python 3.6.6 64-bit ('crawler\_')\_8T: pipenv) 0 ▲ 0    Ln 56, Col 1    Spa

~/.local/share/virtualenvs/crawler\_8T-O7qwdQoO/bin/python

鼠标移动上去可以查看变量值

后来又多次使用VSCode去调试Python：

鼠标移动到变量（类）的属性上，支持（直接）显示变量的属性的值：

比如datetime

的microsecond:

```

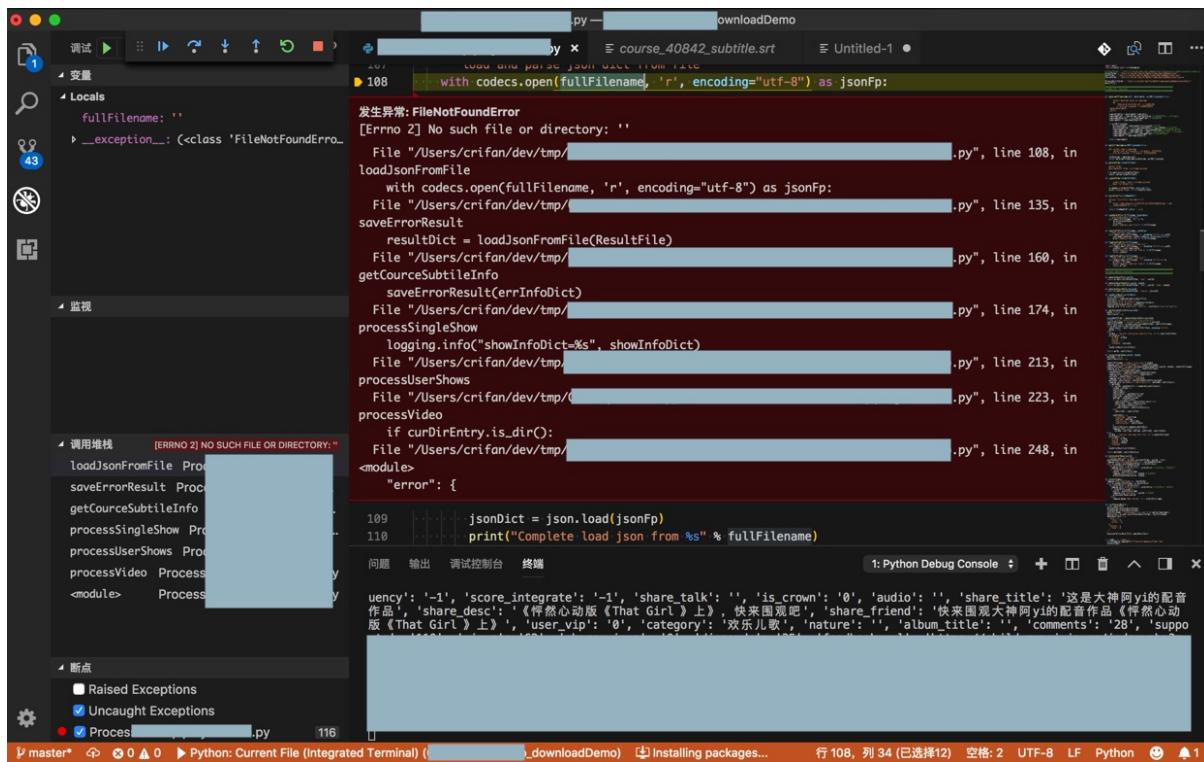
92     .return.
93     """
94     timetupleValue = datetimeVal.timetuple()
95     timestampFloat = time.mktime(timetupleValue) # -> 10 digits
96     if withMilliseconds:
97         microsecondFloat = float(datetimeVal.microsecond)/float(1000000)
98         timestampFloat = timestampFloat + microsecondFloat
99         timestampFloat = timestampFloat * 1000 # -> 13 digits
100    timestampInt = int(timestampFloat)
101   return timestampInt
102

```

而这类功能，之前只有比较高级的IDE，比如 Visual Studio , PyCharm 等才支持。

## 支持异常信息的显示

当调试代码时发生异常，则可以方便快速的显示异常堆栈错误信息：



且可以点击左下角的 调用堆栈，调转到对应代码位置：

```

122 ######
123
124     def generateUserFoler(userId):
125         return os.path.join(OutputFolder, "user", userId)
126
127     def generateUserShowFoler(userId, showId):
128         return os.path.join(OutputFolder, "user", userId, "show", showId)
129
130     def generateCourseFoler(courseId):
131         return os.path.join(OutputFolder, "course", courseId)
132
133     def saveErrorResult(errInfoDict):
134         global Resultfile
135         resultDict = loadJsonFromFile(ResultFile)
136         resultDict["error"]["total"] += 1
137         resultDict["error"]["errors"].append(errInfoDict)
138         saveJsonToFile(Resultfile, resultDict)
139         logging.info("After save error: total=%s", resultDict["error"]["total"])
140
141     def getSourceSubtileInfo(courseId):
142         getOk = False
143         subtitleList = []
144
145         courseRootFolder = generateCourseFoler(courseId)
146         # TODO: extract subtitle suffix from course info
147         subtitleFilename = "course_%s_subtitle.srt" % courseId
148         subtitleFullPath = os.path.join(courseRootFolder, subtitleFilename)

```

问题 输出 调试控制台 终端 1: Python Debug Console 行 135, 列 1 空格: 2 UTF-8 LF Python 89

## 注意事项

偶尔出现小问题，可参考：

### 调试适配器进程意外终止

[【已解决】VSCode调试Python出错：调试适配器进程意外终止Cannot read property 'style' of undefined](#)

### 文件内容改动后断点错位

有时候会遇到：当前面新增行后，后面的断点位置都移动了，错位了。

比如此处，前面新增了2行，导致后面的，之前设置的断点，都错位了，无效了：

```

238     # topicMatch = re.search("(?P<topicLevel1>[\w\s]+)(\s*(\|\-\|)\s*)<topicLevel2>[\w\s]+)", topic)
239     # sports - skiing
240     # topicMatch = re.search("(?P<topicLevel1>[\w\s]+)\s*(\|\-\|)\s*(?P<topicLevel2>[\w\s+])?", topic)
241     # Sports - tae-kwon-do
242     topicMatch = re.search("(?P<topicLevel1>[\w\s]+)\s*(\|\-\|)\s*(?P<topicLevel2>[\w\|\-\s+])?", topic)
243     if topicMatch:
244         topicLevel1 = topicMatch.group("topicLevel1")
245         topicLevel1 = topicLevel1.strip()
246         isExisted, realTopicLevel1 = checkTopic(topicLevel1)
247         if isExisted:
248             curScriptDict["topic"] = realTopicLevel1
249
250         topicLevel2 = topicMatch.group("topicLevel2")
251         if topicLevel2:
252             topicLevel2 = topicLevel2.strip()
253             isExisted, realTopicLevel2 = checkTopic(topicLevel2, isChild=True, parentTopicName=realTopicLevel1)
254             if isExisted:
255                 curScriptDict["second_level_topic"] = realTopicLevel2
256             else:
257                 logging.error("Can not find real child topic %s from parent %s", topicLevel2, realTopicLevel1)
258             else:
259                 logging.warning("Not found topic level 2 from topic string: %s" % topic)
260             else:
261                 logging.error("Can not find level1 topic: %s", topicLevel1)

```

只能再：去掉之前断点，重新打断点：

```

240     # topicMatch = re.search("(?P<topicLevel1>[\w\s]+)(\s*(\|\-\|)\s*)<topicLevel2>[\w\s]+)", topic)
241     # Sports - tae-kwon-do
242     topicMatch = re.search("(?P<topicLevel1>[\w\s]+)\s*(\|\-\|)\s*(?P<topicLevel2>[\w\|\-\s+])?", topic)
243     if topicMatch:
244         topicLevel1 = topicMatch.group("topicLevel1")
245         topicLevel1 = topicLevel1.strip()
246         isExisted, realTopicLevel1 = checkTopic(topicLevel1)
247         if isExisted:
248             curScriptDict["topic"] = realTopicLevel1
249
250         topicLevel2 = topicMatch.group("topicLevel2")
251         if topicLevel2:
252             topicLevel2 = topicLevel2.strip()
253             isExisted, realTopicLevel2 = checkTopic(topicLevel2, isChild=True, parentTopicName=realTopicLevel1)
254             if isExisted:
255                 curScriptDict["second_level_topic"] = realTopicLevel2
256             else:
257                 logging.error("Can not find real child topic %s from parent %s", topicLevel2, realTopicLevel1)
258             else:
259                 logging.warning("Not found topic level 2 from topic string: %s" % topic)
260             else:
261                 logging.error("Can not find level1 topic: %s", topicLevel1)
262             else:
263                 logging.error("!!! Can not recognize topic format for: %s" % topic)
264
265         content = eachScriptMatch.group("content")

```

所以还是有点麻烦的

-» 而PyCharm就可以很好的支持：当代码改动（不多）的时候，可以自动保持原有的断点的位置。

-» 不过后来也发现，此问题只是偶尔发生的。有时候代码改动后，断点还正常的。



# 性能

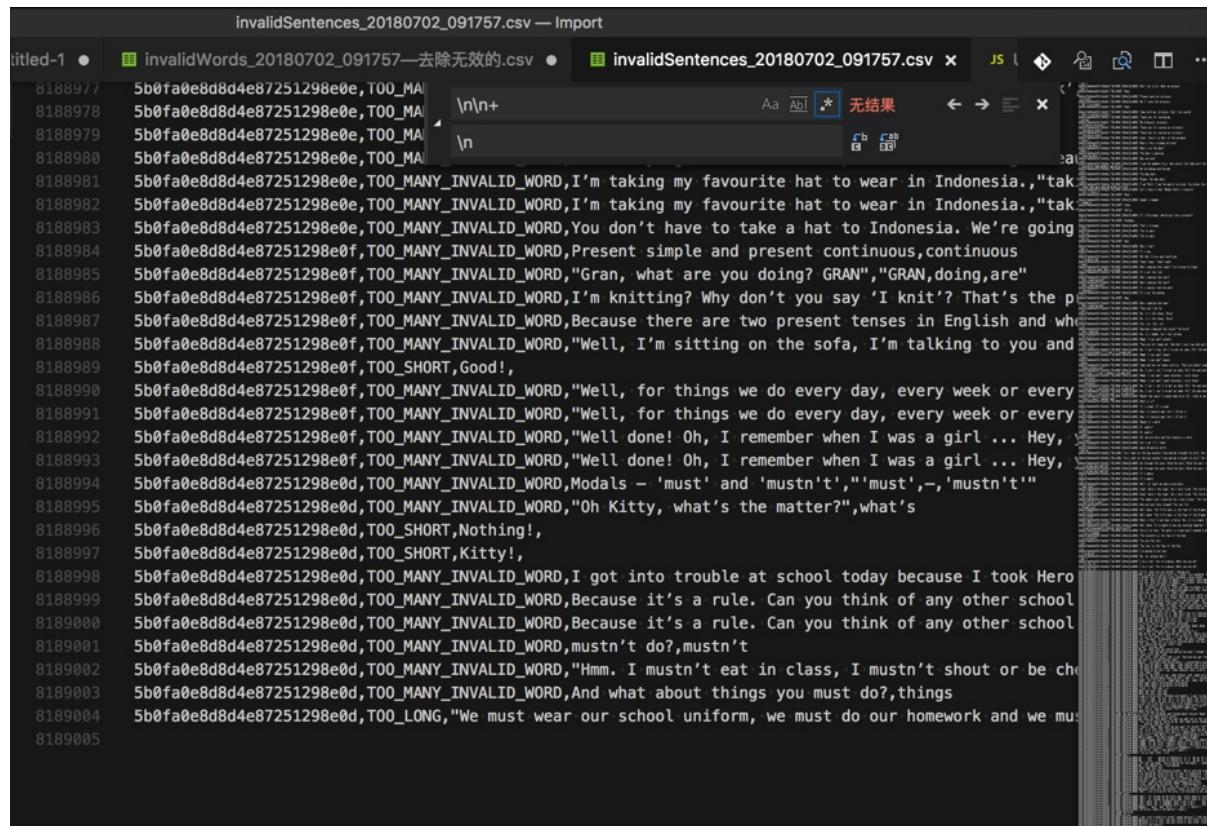
VSCode打开大文件速度也不错。

最近遇到30多M和700多MB的 (csv) 文本文件：

名称	修改日期	大小	种类
invalidSentences_20180628_5000个无效单词.csv	2018年6月28日 18:15	2.5 MB	CSV 文稿
invalidSentences_20180629_171152.csv	2018年6月29日 17:23	18.9 MB	CSV 文稿
invalidSentences_20180629_174251.csv	2018年6月29日 17:42	7 KB	CSV 文稿
invalidSentences_20180629_174309.csv	2018年6月29日 18:15	197.9 MB	CSV 文稿
invalidSentences_20180702_091757.csv	今天 12:10	762 MB	CSV 文稿
invalidWords_20180628_5000个无效单词.csv	2018年6月28日 18:15	45 KB	CSV 文稿
invalidWords_20180702_091757—去除无效的.csv	今天 13:36	39.6 MB	CSV 文稿
invalidWords_20180702_091757.csv	今天 13:36	39.6 MB	CSV 文稿
mongoDialogToMysqlQa.log	今天 13:36	1.57 GB	日志文件
mongoDialogToMysqlQa.py	2018年6月29日 17:42	16 KB	Python Source
README.html	今天 14:19	24 KB	HTML 文稿
README.md	今天 14:19	5 KB	Markdo...ument
vocabulary.txt	2018年5月31日 11:26	10 KB	纯文本文稿

用VSCode打开，速度和反应也还是不错的：

(不过700多MB打开时，也是等了几十秒，然后卡死了一小会才打开)



The screenshot shows a terminal window with three tabs: 'invalidWords\_20180702\_091757—去除无效的.csv — Import' (selected), 'invalidWords\_20180702\_091757—去除无效的.csv' (background), and 'invalidSentences\_20180702\_091757.csv'. The search bar at the top contains the regular expression '\n\n+'. The results pane below shows the output of the search, which consists of many lines of text, mostly blank lines, indicating matches for the search pattern.

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## 附录

下面列出相关参考资料。

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## 参考资料

- 这就是我想要的 VSCode 插件! - 知乎
- [VSCode插件推荐] Bracket Pair Colorizer: 为代码中的括号添上一抹亮色 - 知乎
- 【已解决】VSCode调试Python出错：调试适配器进程意外终止Cannot read property 'style' of undefined
- 30个极大提高开发效率的VSCode插件 - 知乎
- Debugger for Chrome - Visual Studio Marketplace
- 【已解决】VSCode中对选中内容切换大小写的快捷键
- Visual Studio Code October 2018
- Backreferences and lookahead in search
- Multiline search
- Visual Studio Code 的正则匹配好用吗? - 知乎
- 【已解决】后台导入csv文件后解析成功但导入失败
- 【记录】VSCode试试其他主题和字体和插件
- 【已解决】VSCode中搜索不到实际上是存在的字符串

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