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史上最好用的编辑器：VSCode

- 最新版本：`v0.6`
- 更新时间：`20190316`

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

目前常见的 编辑器(Editor) , IDE 很多, 之前也有总结: [编辑器和IDE总结](#)。

对于代码编辑器来说, 之前用过很多, 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。

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

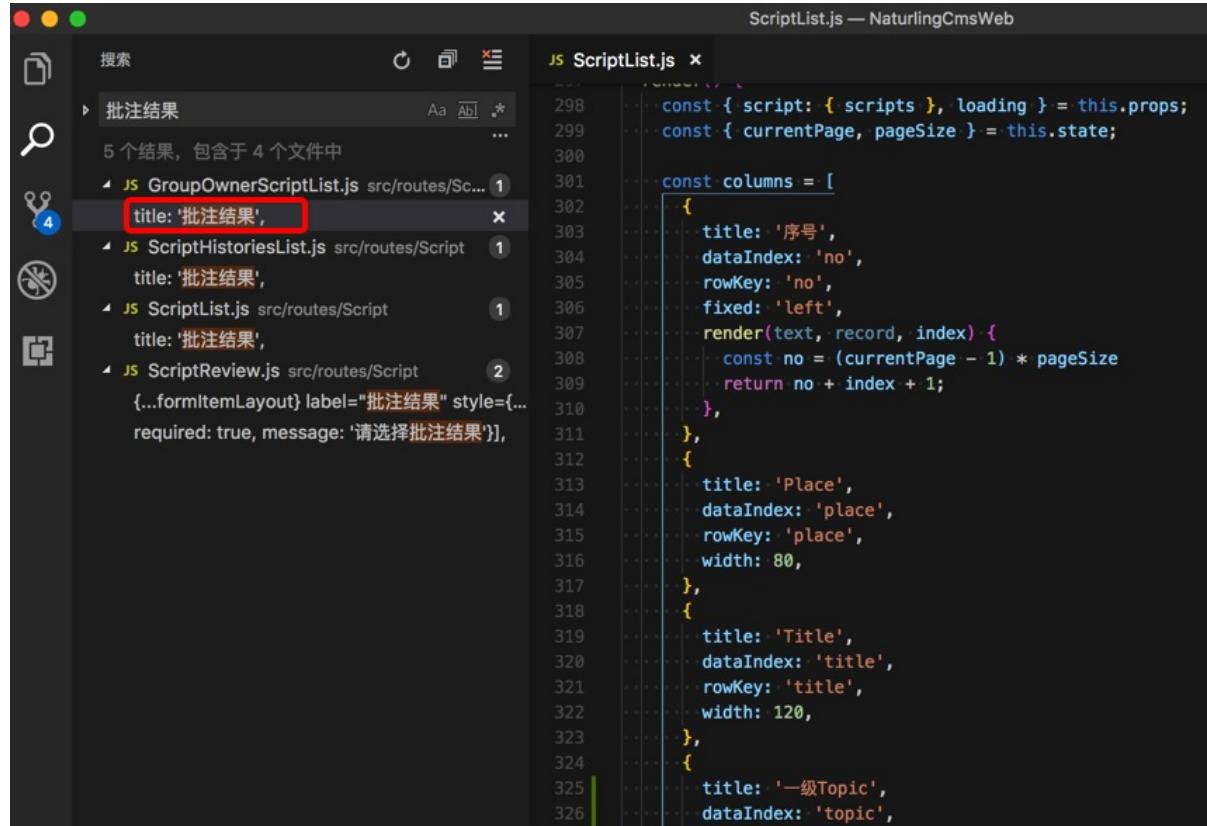
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界面布局

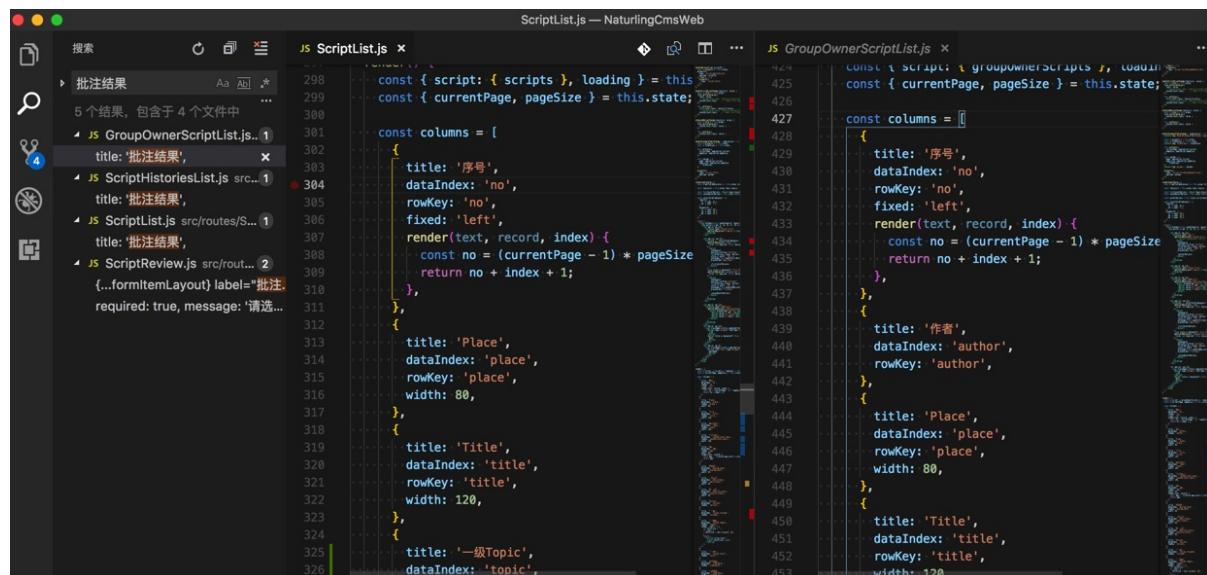
下面整理 VSCode 的界面和布局。

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

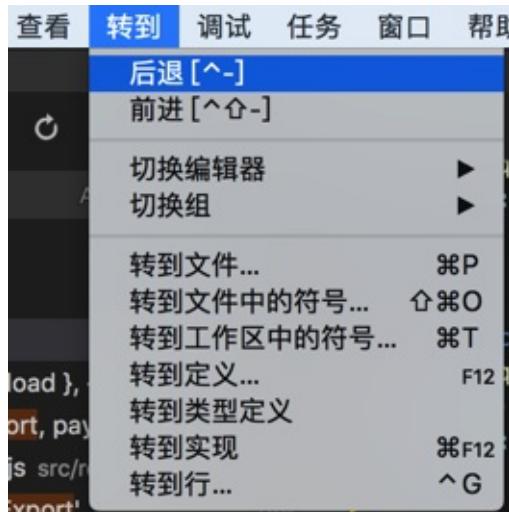
此处整理出 `vsCode` 中最常用的一些快捷键，方便查询和使用。

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

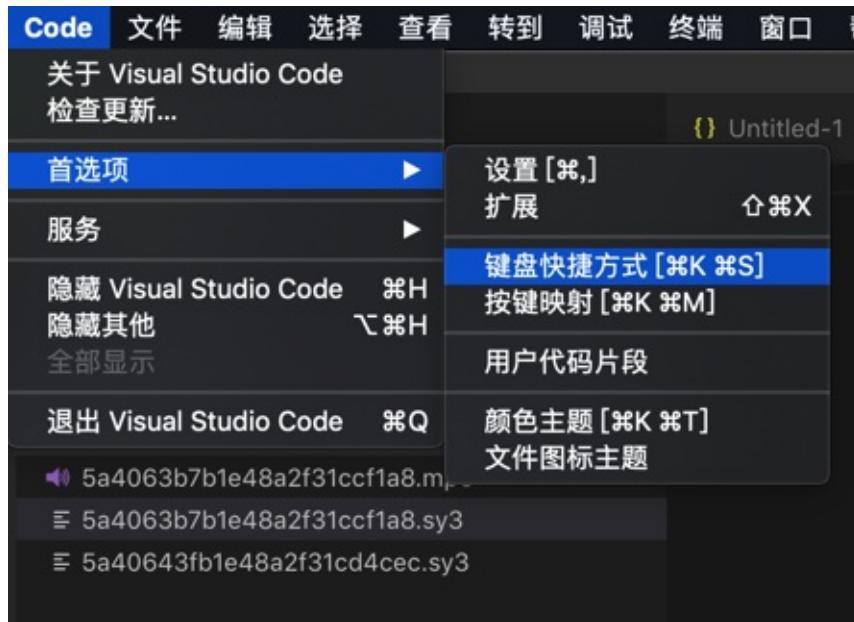
默认是没有的，可以自己去设置。比如：

- 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 :

A screenshot of the 'keybindings.json' editor in Visual Studio Code. The title bar says '键盘快捷方式 - audio'. The editor shows a table of keybindings:

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: 缩小	⌃ ⌉ ⌂	默认值	—

The entry for '上一步' (Previous Step) is highlighted with a red box around its icon and keybinding.

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代码编辑器常用功能

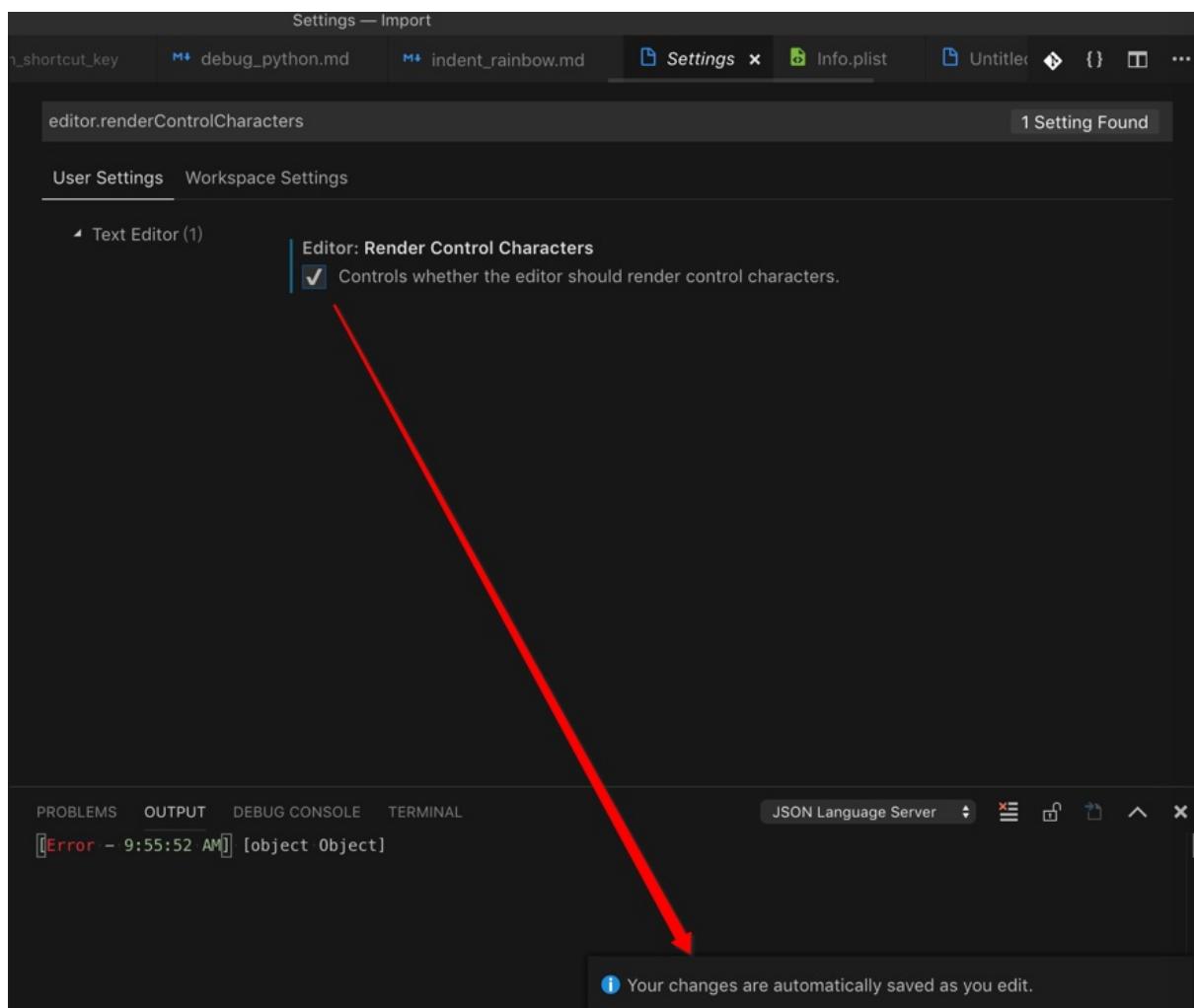
支持不同主题和字体

[【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：

mix.so — FDex2 hook output

```

1  dey
2  0360(000$ SOH 00P SOH 00& ENQ 00X ACK 00H00000000 BS 0hdex
3  03500$00/0M0PH DC3 GS 000 US 000 ACK 0gp0$ SOH 00p000xV4 DC2 0001
4  mixClass.java00 ACK 00000000 SOH 00000000 SOH 000 ETX 000p000 STX
5  SYN SUB ?000/data/dalvik-cache/system@fram
6  üT0pa0000ju4→R0wE000/data/dalvik-cache/system@
7  vTe 00pt BEL e05k SYN 00C000/data/dalvik-cache/system@f
8  ?000/data/dalvik-cache/system@framework@apache->

```

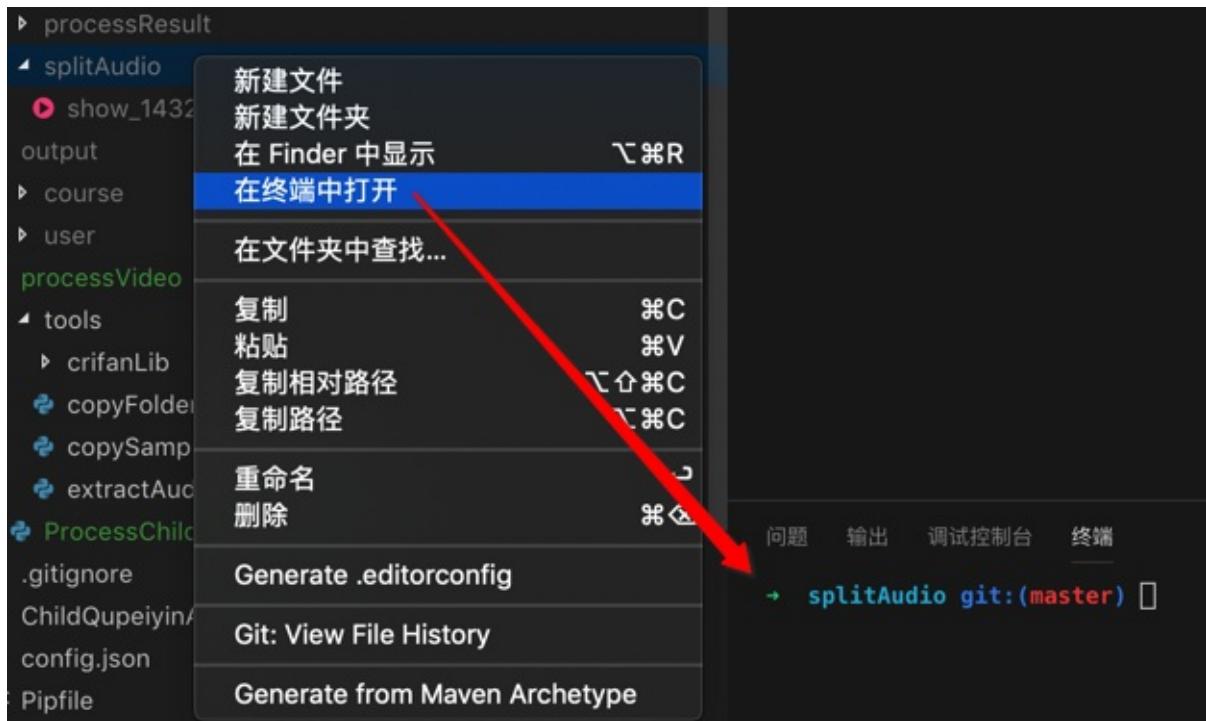
详见：

【已解决】VSCode中显示特殊的不可见的控制字符

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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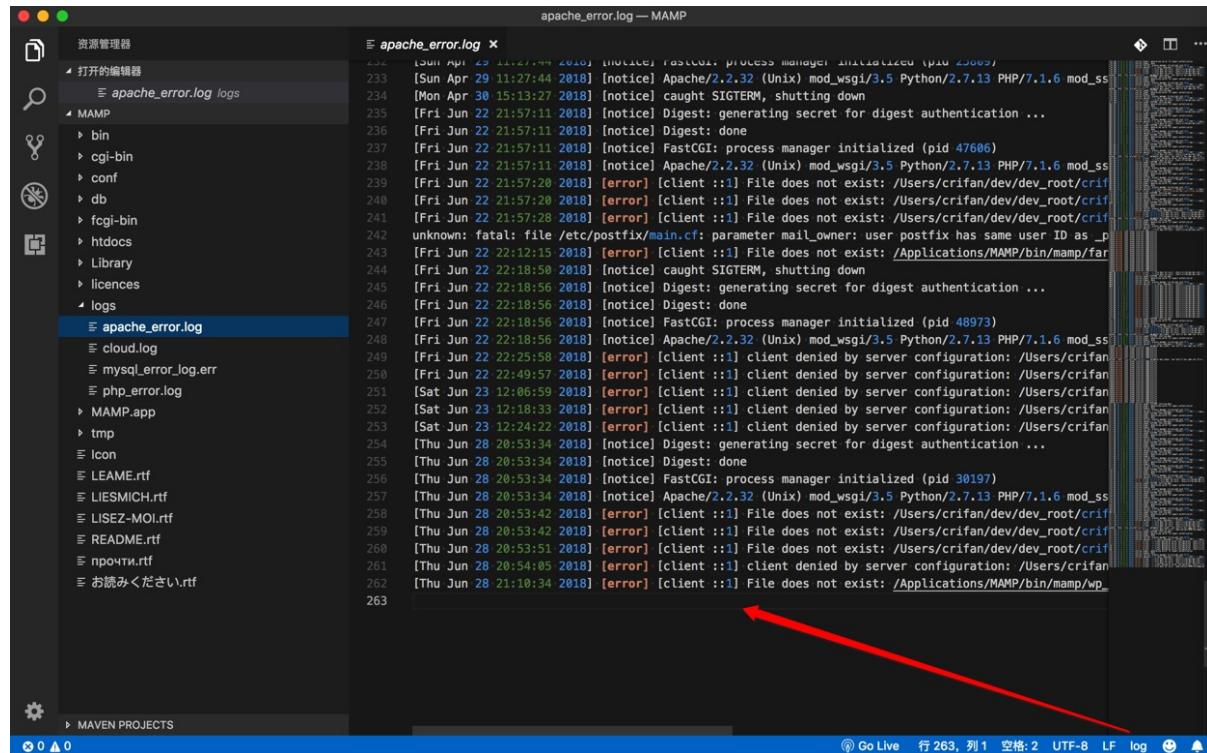
代码格式化

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语法高亮

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 VSCode interface with a dark theme. On the left is the sidebar with icons for file explorer, search, and others. The main area has two tabs: 'apache_error.log' and 'logs'. The 'apache_error.log' tab is active, displaying log entries from a file named 'apache_error.log'. The log entries are color-coded: blue for file paths and red for error messages. A red arrow points from the bottom right towards the log entries. The status bar at the bottom shows 'Go Live' and other details like '行 263, 列 1'.

```

apache_error.log — MAMP
233 [Sun Apr 29 11:27:44 2018] [notice] FastCGI: process manager initialized (pid 25863)
234 [Mon Apr 30 15:13:27 2018] [notice] caught SIGTERM, shutting down
235 [Fri Jun 22 21:57:11 2018] [notice] Digest: generating secret for digest authentication ...
236 [Fri Jun 22 21:57:11 2018] [notice] Digest: done
237 [Fri Jun 22 21:57:11 2018] [notice] FastCGI: process manager initialized (pid 47606)
238 [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
239 [Fri Jun 22 21:57:20 2018] [error] [client ::1] File does not exist: /Users/crifan/dev/dev_root/crif
240 [Fri Jun 22 21:57:20 2018] [error] [client ::1] File does not exist: /Users/crifan/dev/dev_root/crif
241 [Fri Jun 22 21:57:28 2018] [error] [client ::1] File does not exist: /Users/crifan/dev/dev_root/crif
242 unknown: fatal: file /etc/postfix/main.cf: parameter mail_owner: user postfix has same user ID as _p
243 [Fri Jun 22 22:12:15 2018] [error] [client ::1] File does not exist: /Applications/MAMP/bin/mamp/far
244 [Fri Jun 22 22:18:50 2018] [notice] caught SIGTERM, shutting down
245 [Fri Jun 22 22:18:56 2018] [notice] Digest: generating secret for digest authentication ...
246 [Fri Jun 22 22:18:56 2018] [notice] Digest: done
247 [Fri Jun 22 22:18:56 2018] [notice] FastCGI: process manager initialized (pid 48973)
248 [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
249 [Fri Jun 22 22:25:58 2018] [error] [client ::1] client denied by server configuration: /Users/crifan
250 [Fri Jun 22 22:49:57 2018] [error] [client ::1] client denied by server configuration: /Users/crifan
251 [Sat Jun 23 12:06:59 2018] [error] [client ::1] client denied by server configuration: /Users/crifan
252 [Sat Jun 23 12:18:33 2018] [error] [client ::1] client denied by server configuration: /Users/crifan
253 [Sat Jun 23 12:24:22 2018] [error] [client ::1] client denied by server configuration: /Users/crifan
254 [Thu Jun 28 20:53:34 2018] [notice] Digest: generating secret for digest authentication ...
255 [Thu Jun 28 20:53:34 2018] [notice] Digest: done
256 [Thu Jun 28 20:53:34 2018] [notice] FastCGI: process manager initialized (pid 30197)
257 [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
258 [Thu Jun 28 20:53:42 2018] [error] [client ::1] File does not exist: /Users/crifan/dev/dev_root/crif
259 [Thu Jun 28 20:53:42 2018] [error] [client ::1] File does not exist: /Users/crifan/dev/dev_root/crif
260 [Thu Jun 28 20:53:51 2018] [error] [client ::1] File does not exist: /Users/crifan/dev/dev_root/crif
261 [Thu Jun 28 20:54:05 2018] [error] [client ::1] client denied by server configuration: /Users/crifan
262 [Thu Jun 28 21:10:34 2018] [error] [client ::1] File does not exist: /Applications/MAMP/bin/mamp/wp_
263

```

很是方便查看内容。

另外一个截图：

```

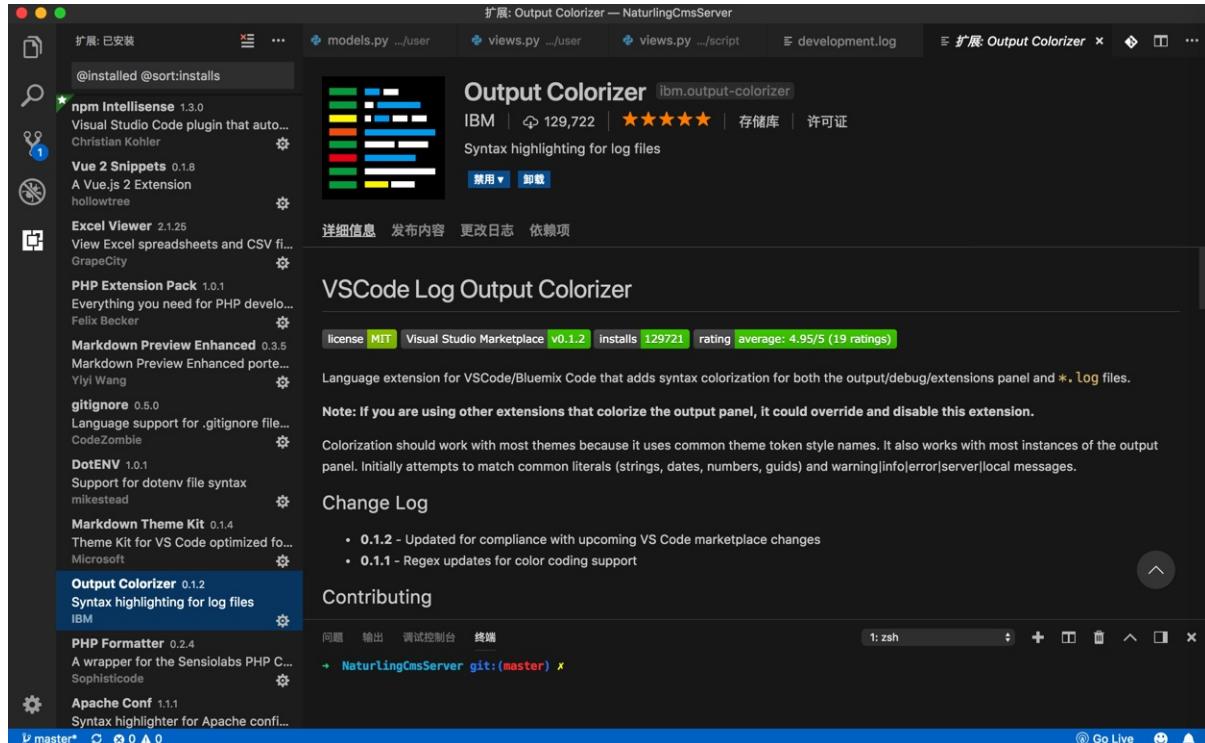
development.log — NaturlingCmsServer
 README.md settings.py development.log jwt.py Untitled-2
 9 DEBUG 2018-07-09 15:17:28,015 utils 9314 123145337683968 (0.001) SET SESSION TRANSACTION ISOLATION LEVEL
10 DEBUG 2018-07-09 15:17:28,017 utils 9314 123145337683968 (0.002) SELECT `user_user`.`password`, `user_use
11 ERROR 2018-07-09 15:17:28,164 exception 9314 123145337683968 Internal Server Error: /api/v1/jwt-token-aut
12 Traceback (most recent call last):
13   File "/usr/local/lib/python3.6/site-packages/django/core/handlers/exception.py", line 35, in inner
14     response = get_response(request)
15   File "/usr/local/lib/python3.6/site-packages/django/core/handlers/base.py", line 158, in _get_response
16     response = self.process_exception_by_middleware(e, request)
17   File "/usr/local/lib/python3.6/site-packages/django/core/handlers/base.py", line 156, in _get_response
18     response = response.render()
19   File "/usr/local/lib/python3.6/site-packages/django/template/response.py", line 106, in render
20     self.content = self.rendered_content
21   File "/usr/local/lib/python3.6/site-packages/rest_framework/response.py", line 72, in rendered_content
22     ret = renderer.render(self.data, accepted_media_type, context)
23   File "/usr/local/lib/python3.6/site-packages/rest_framework/renderers.py", line 105, in render
24     allow_nan=not self.strict, separators=separators
25   File "/usr/local/lib/python3.6/site-packages/rest_framework/utils/json.py", line 28, in dumps
26     return json.dumps(*args, **kwargs)
27   File "/usr/local/Cellar/python/3.6.4_4/Frameworks/Python.framework/Versions/3.6/lib/python3.6/json/_in
28     **kw).encode(obj)
29   File "/usr/local/Cellar/python/3.6.4_4/Frameworks/Python.framework/Versions/3.6/lib/python3.6/json/encod
30     chunks = self._iterencode(o, _one_shot=True)
31   File "/usr/local/Cellar/python/3.6.4_4/Frameworks/Python.framework/Versions/3.6/lib/python3.6/json/encod
32     return _iterencode(o, 0)
33   File "/usr/local/lib/python3.6/site-packages/rest_framework/utils/encoders.py", line 68, in default
34     return super(JSONEncoder, self).default(obj)
35   File "/usr/local/Cellar/python/3.6.4_4/Frameworks/Python.framework/Versions/3.6/lib/python3.6/json/encod
36     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 x 扩展: Output Colorize
```

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
... id = UUIDField(read_only=True)
... place = CharField(max_length=128)
... title = CharField(max_length=128)
4927 ... topic = CharField(read_only=False, source='topic.name')
... 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

NaturlingCmsServer git:(master) x

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文件编码

VSCode的文件编码应用案例

比如：

[【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

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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。

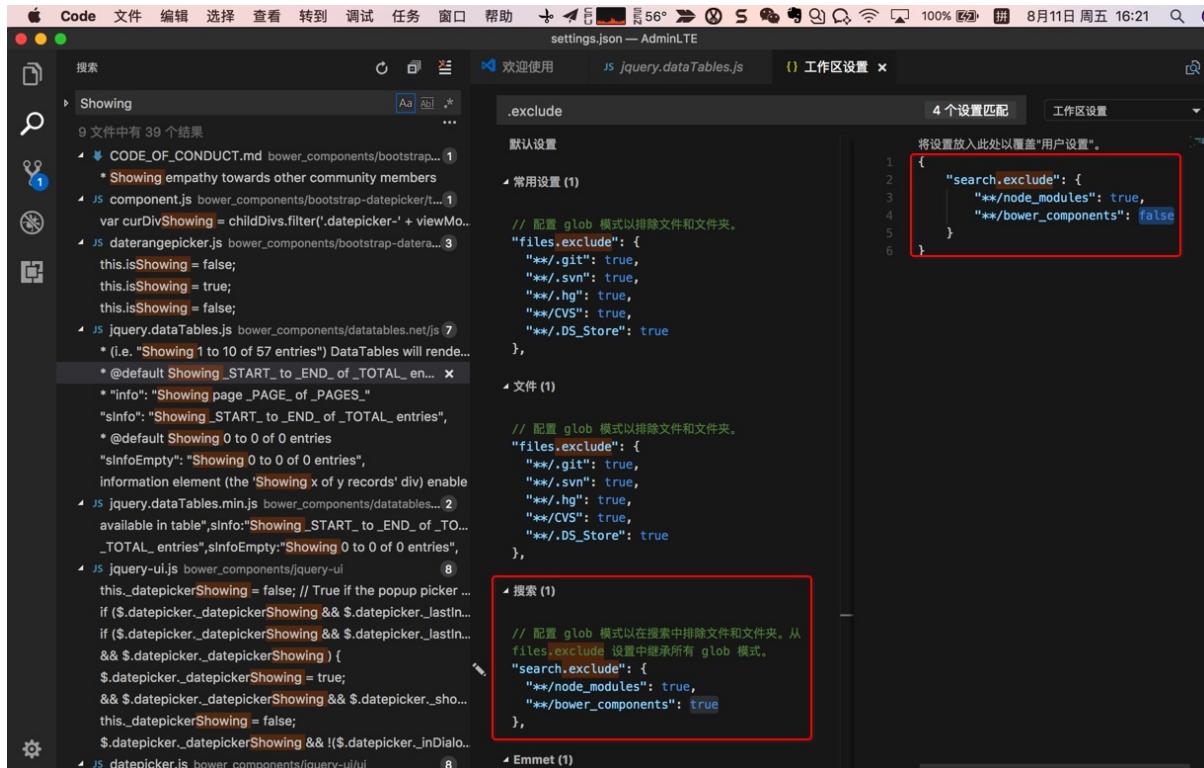
解决办法：

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

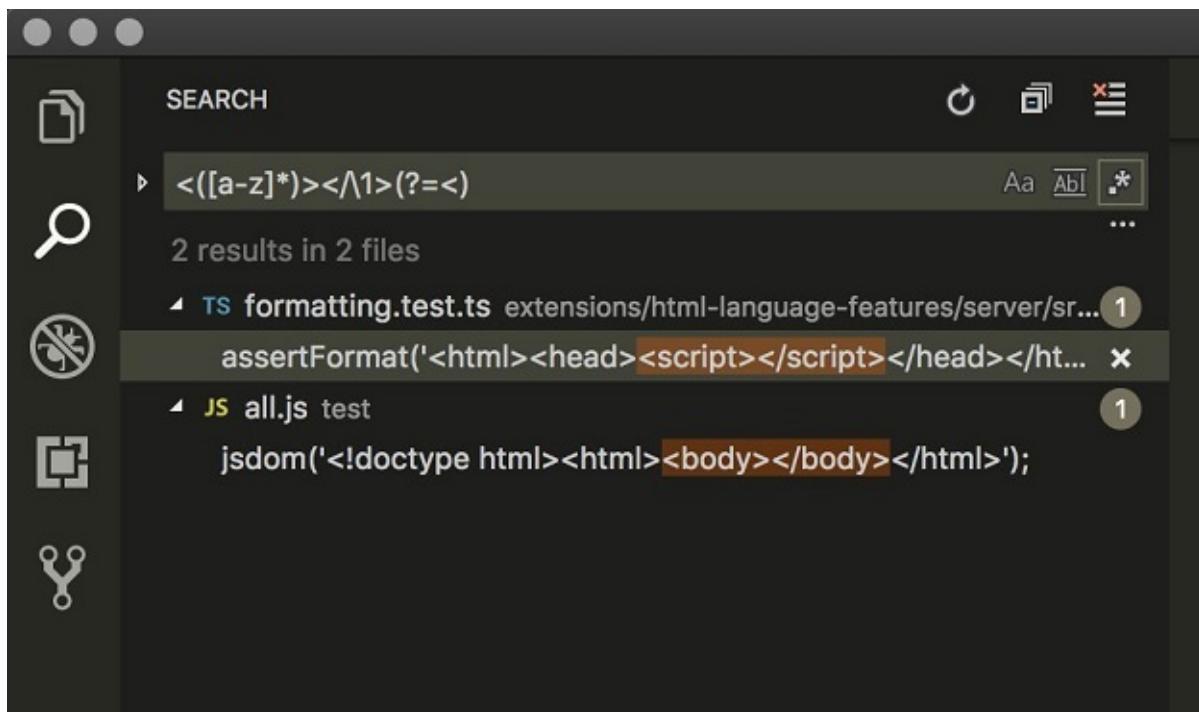
VSCode的搜索中支持正则的高级语法，比如：

- 【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,
```

The screenshot shows a dark-themed text editor window titled "Untitled-1". In the top bar, there are three colored circles (red, yellow, green) and a file icon with the number "1". The main area displays the text:

```
1 127
2 126
3 127
```

Below the text is a search bar containing the regular expression `(\d+)\n`. To the right of the search bar are buttons for "Aa" (case sensitivity), "Ab" (regular expression mode), and a highlighted "Replace" button with a blue border. The status bar at the bottom shows "1 / 2" and navigation icons.

即可替换为：

127,126,127

This screenshot shows the same text editor window after the replacement. The text now reads:

```
1 127,126,127
```

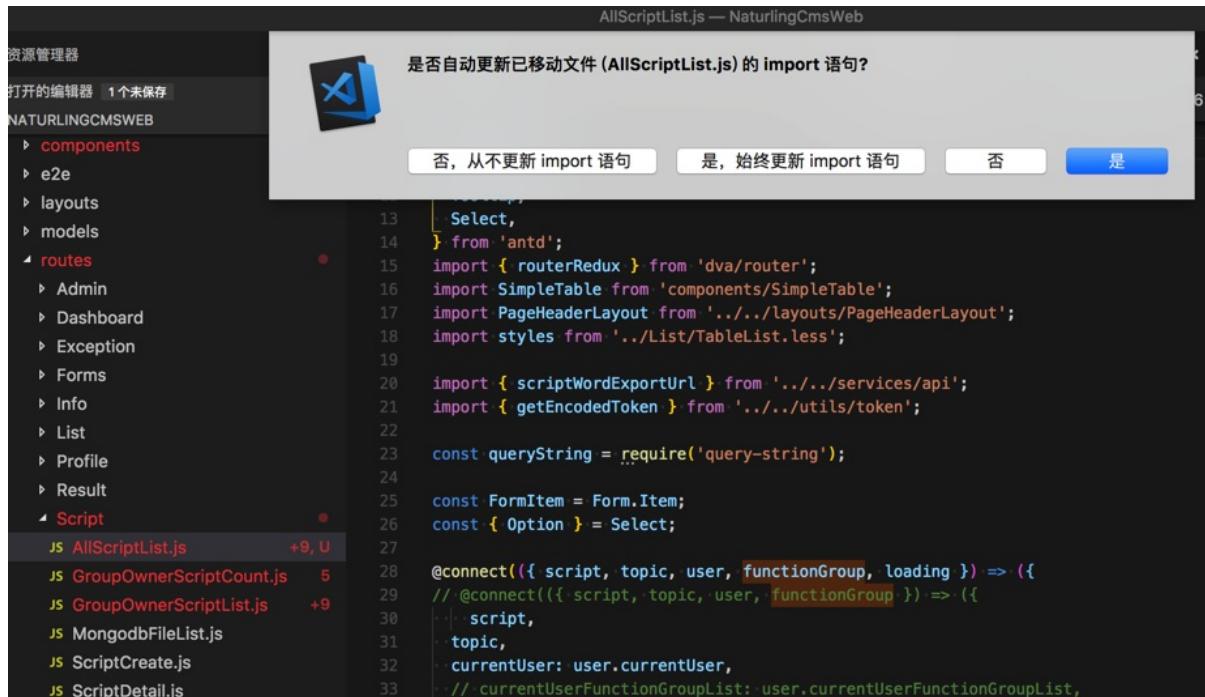
The search bar still contains the regular expression `(\d+)\n`, and the status bar now shows "无结果" (No results). The rest of the interface is identical to the first screenshot.

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 21:00:06

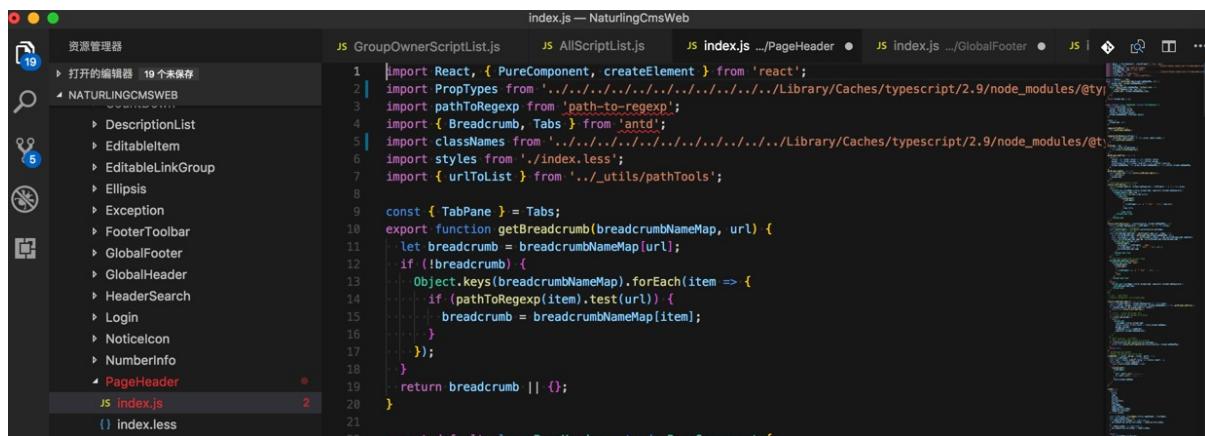
VSCode的智能好用之处

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



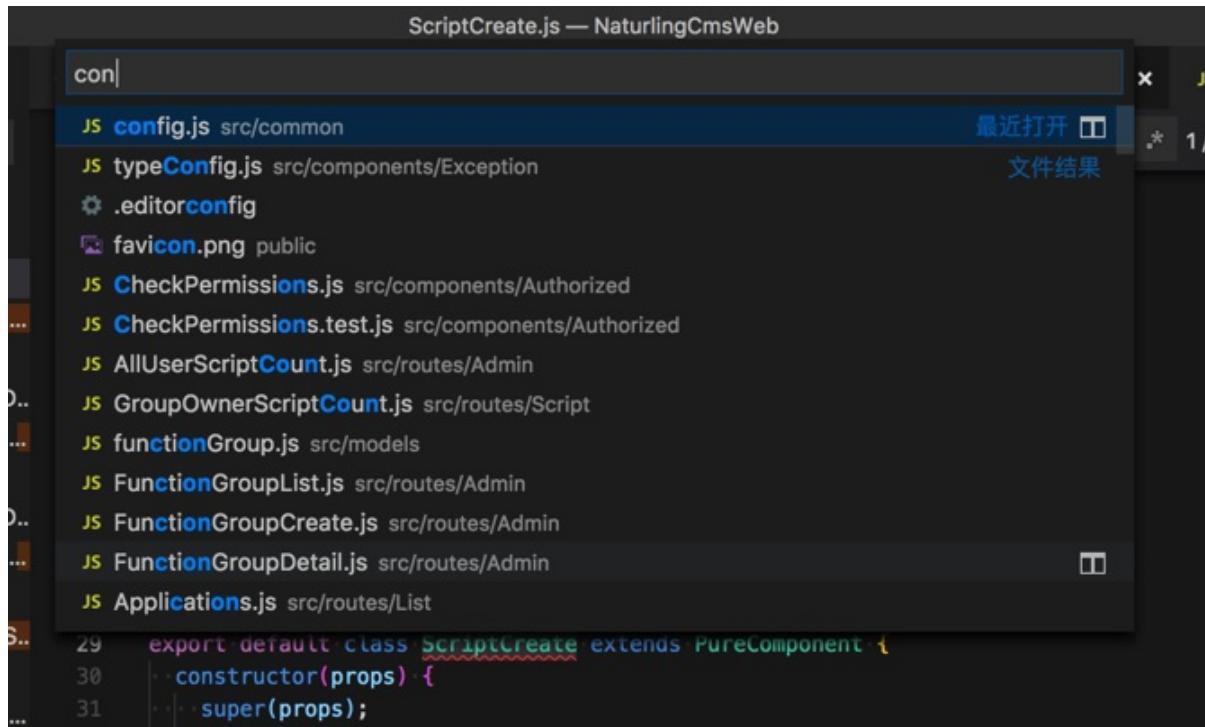
即可自动更新import语句：



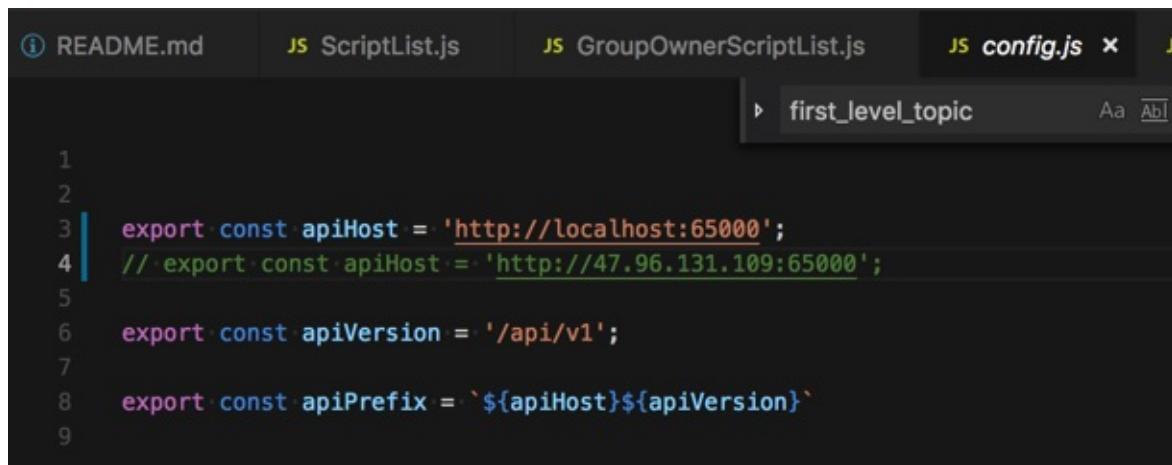
不过，此处更新后的內容不是我要的，竟然把本来正常的都改错误了，所以还要自己去改回来。以后慎用这个自动修改import的功能。

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

```

The screenshot shows the VSCode interface with the 'development.log' file open. The log file contains several lines of text, with the last line being highlighted by a red box. This line points to a specific line of code in a Python file named 'views.py' located at 'y/naturling/projects/NaturlingCmsServer/apps/script/'. This demonstrates how VSCode can provide direct links from log entries to the source code they originated from.

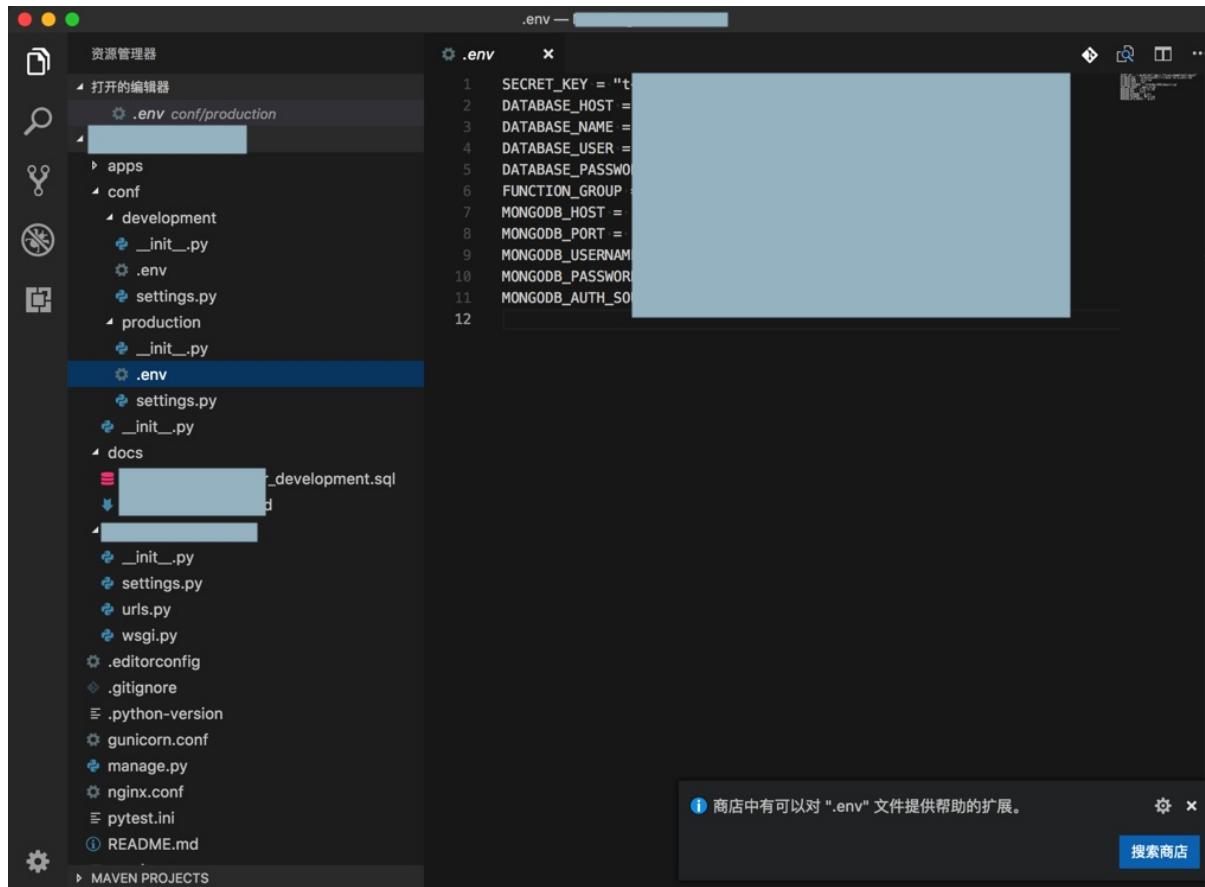
可以跳转到对应的文件：

The screenshot shows the VSCode interface with the 'views.py' file open. The code editor displays several lines of Python code, with the last line being highlighted by a red box. This line points to a specific line of code in the same 'views.py' file, demonstrating how VSCode can provide direct links from log entries to the source code they originated from.

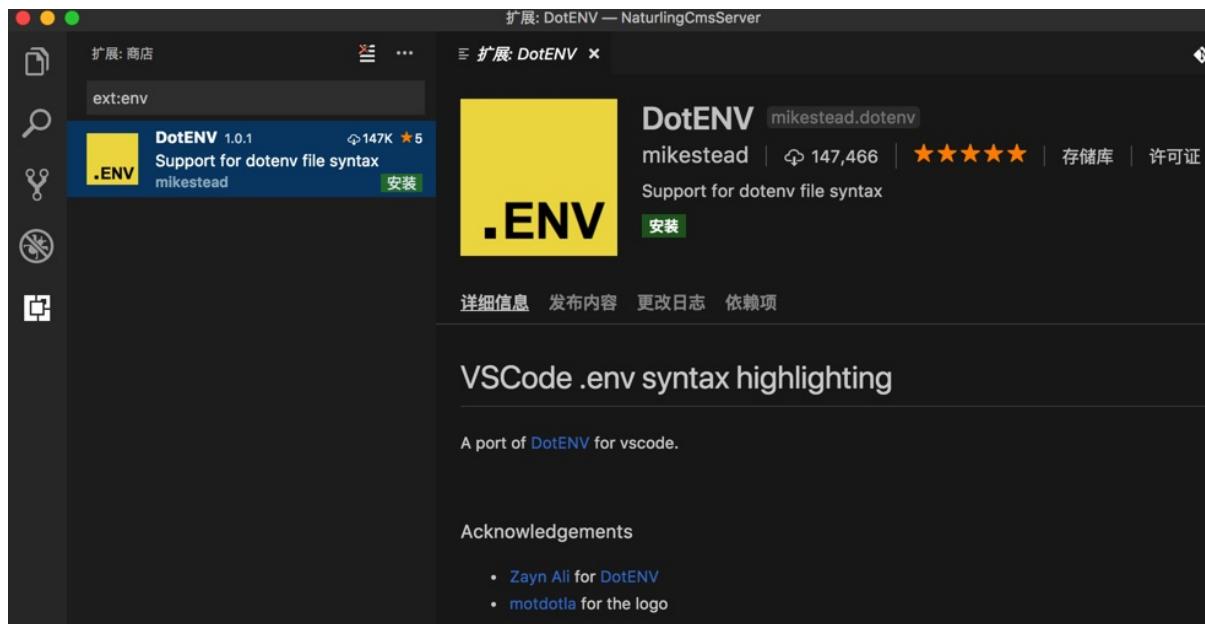
方便调试。

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：



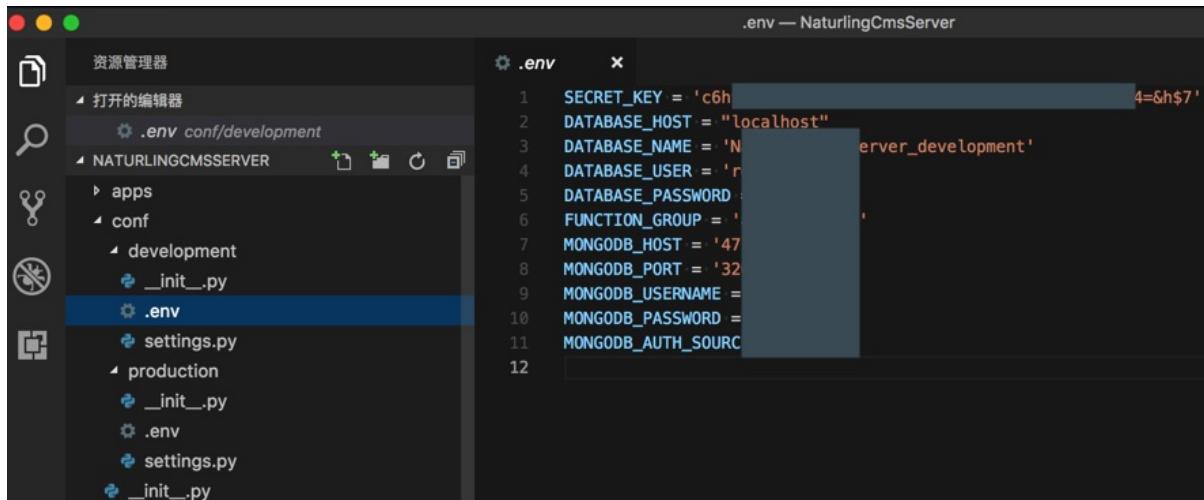
然后点击安装插件：



安装后，重启加载：

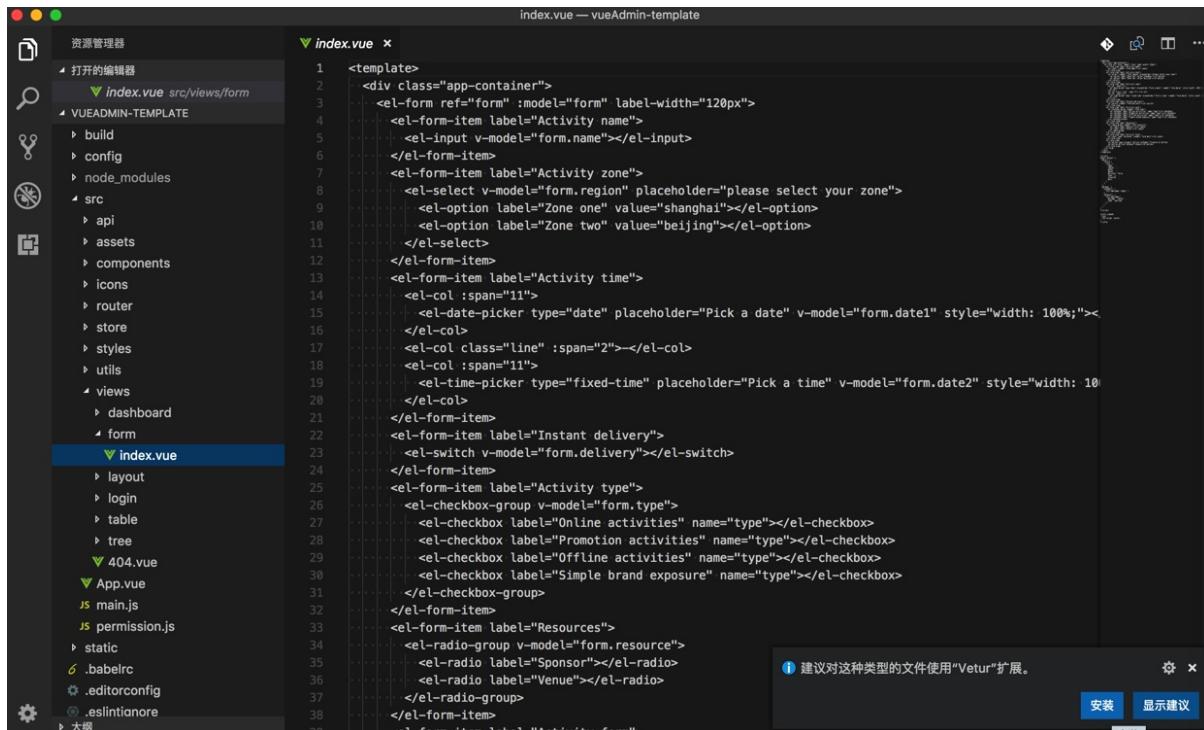


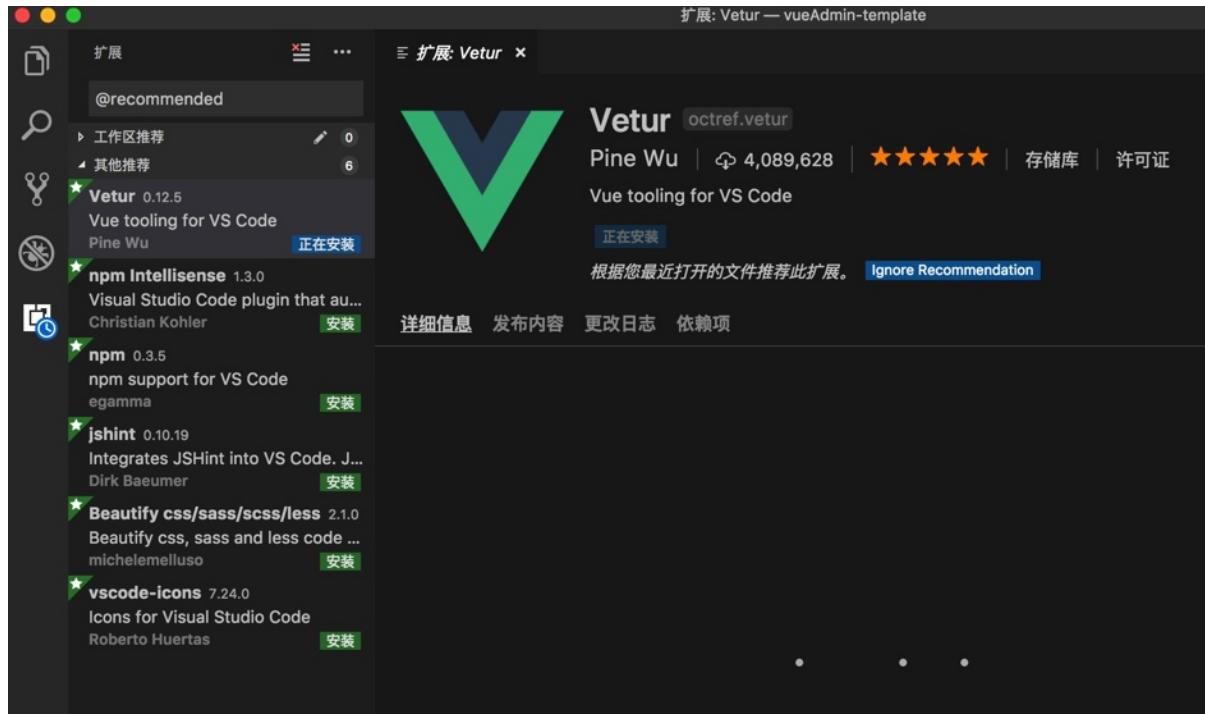
然后.env就可以语法高亮了：



另外类似的情况还有：

首次打开vue提示安装对应的插件：

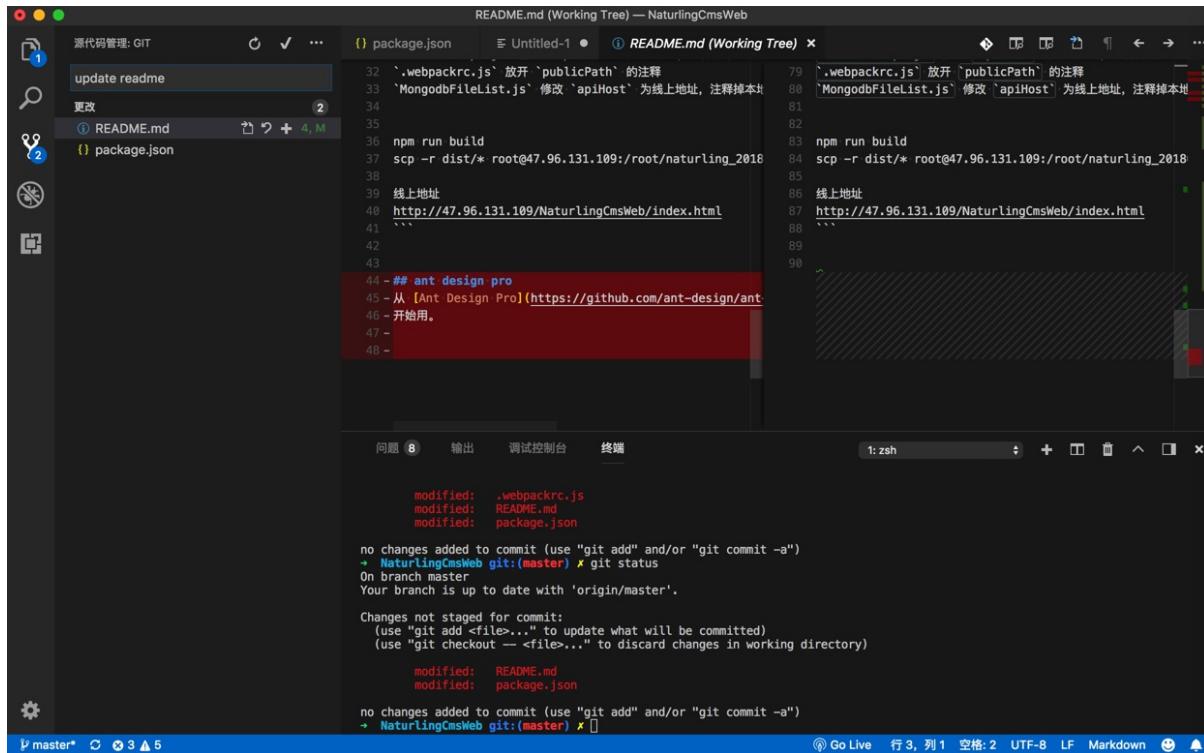




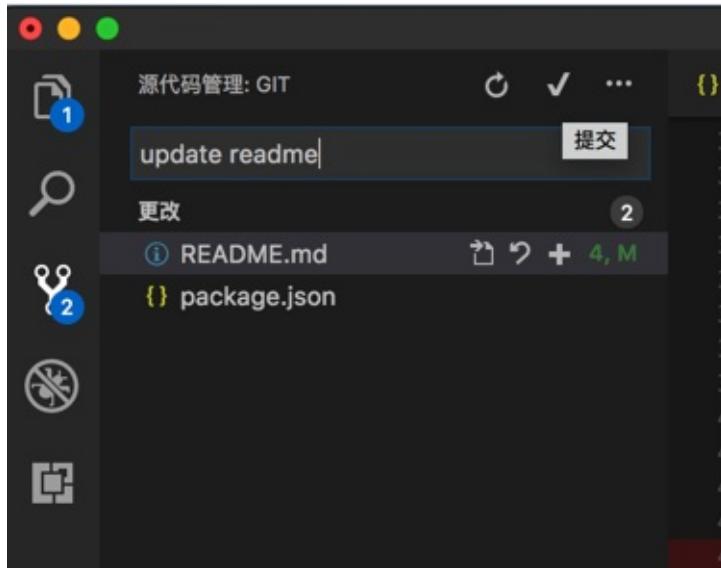
crifan.com, 使用[知识署名-相同方式共享4.0协议](#)发布 all right reserved, powered by Gitbook该文件修订时间: 2019-03-16 21:30:24

Git代码管理

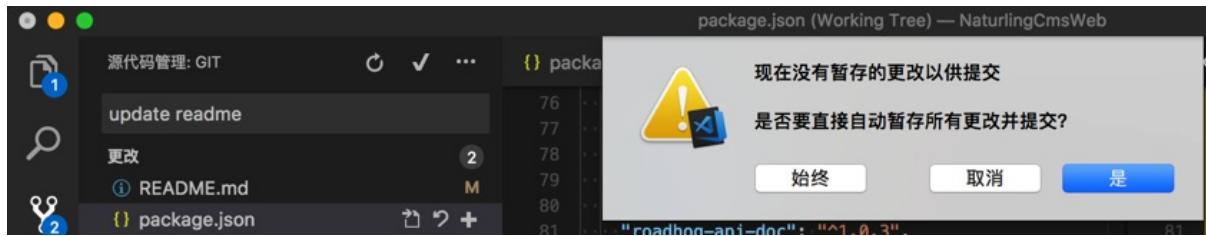
VSCode中用git管理代码仓库



然后尝试用VSCode中的git界面去提交代码：



会有提示：



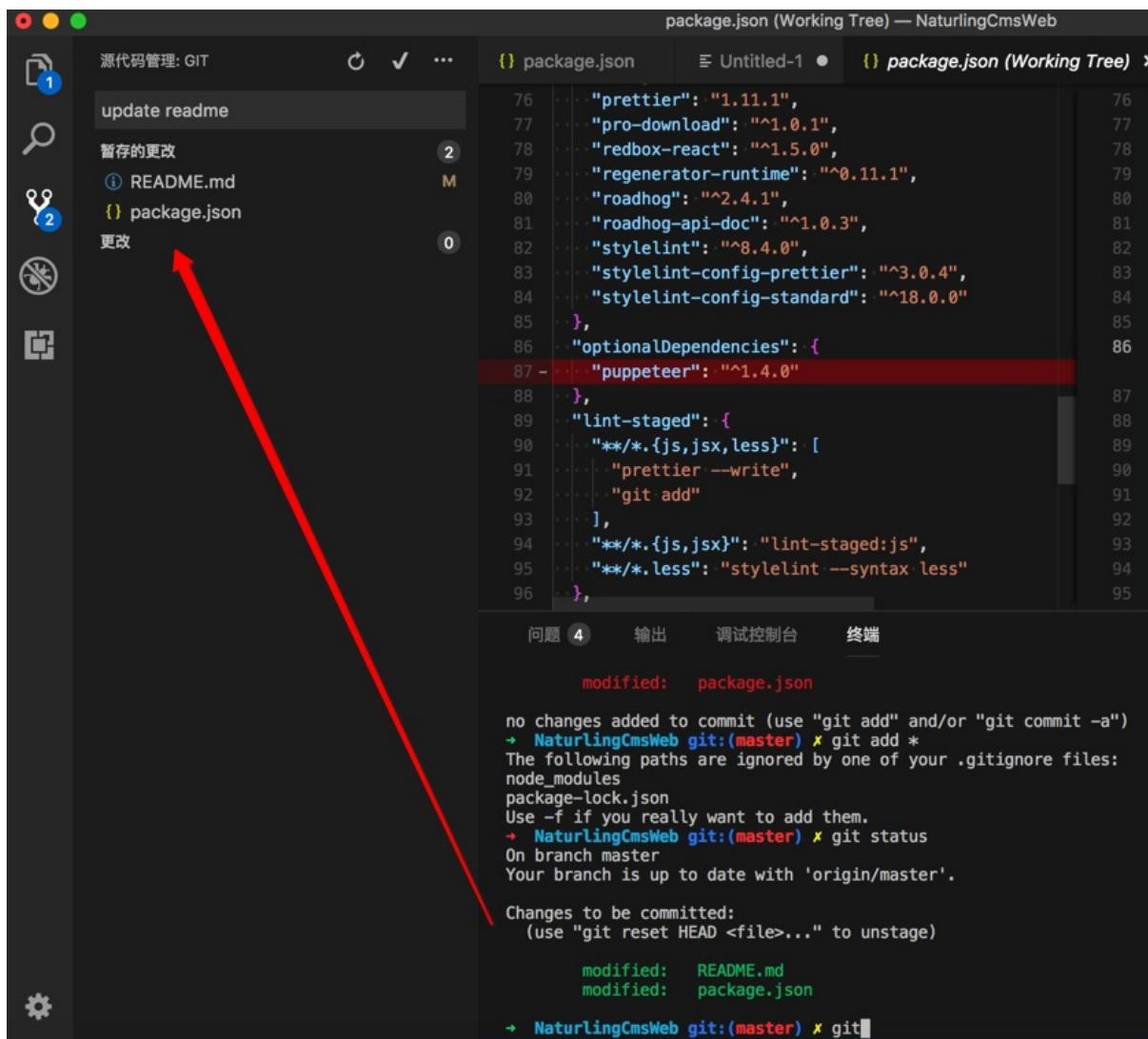
不过去 git add 后:

```
→ 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.. x

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 'File History (permissions.py)' page from a Git interface. The commits listed are:

- 1.fixbug: nex page will error (commit c80e4e5, by rirfan on 2018年7月25日周三 下午5:39)
- update (commit 728f68e, by [redacted] on 2018年6月22日周五 下午5:43)
- fix get script/script_id/dialogs/ (commit cd5e79d, by [redacted] on 2018年6月22日周五 下午4:47)
- add cros header (commit e229a32, by [redacted] on 2018年6月15日周五 下午3:58)
- remove redundant code (commit ef150ce, by [redacted] on 2018年5月31日周四 上午10:57)
- update (commit 3d3213d, by [redacted] on 2018年5月31日周四 上午10:35)
- add function_group/members/ (commit 8b55d71, by [redacted] on 2018年5月30日周三 下午4:48)
- update (commit 9bd81c1, by [redacted] on 2018年5月29日周二 下午6:31)
- update (commit c17719b, by [redacted] on 2018年5月29日周二 下午3:47)

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 the first commit in the history:

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

Details of the commit:

- update (commit 728f68e, by [redacted] on 2018年6月22日周五 下午5:43)
- fix get script/script_id/dialogs/ (commit cd5e79d, by [redacted] on 2018年6月22日周五 下午4:47)
- add cros header (commit e229a32, by [redacted] on 2018年6月15日周五 下午3:58)
- remove redundant code (commit ef150ce, by [redacted] on 2018年5月31日周四 上午10:57)
- update (commit 3d3213d, by [redacted] on 2018年5月31日周四 上午10:35)
- update (commit 8b55d71, by [redacted] on 2018年5月30日周三 下午4:48)
- update (commit 9bd81c1, by [redacted] on 2018年5月29日周二 下午6:31)
- update (commit c17719b, by [redacted] on 2018年5月29日周二 下午3:47)

Below the commit details, there is a list of modified files:

- 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

Previous Next

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 cors 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

on 2018年6月22日周五 下午 5:43

1 M apps/user/permissions.py

9 M apps/user/views.py

23 M conf/development/settings.py

51 M conf/production/settings.py

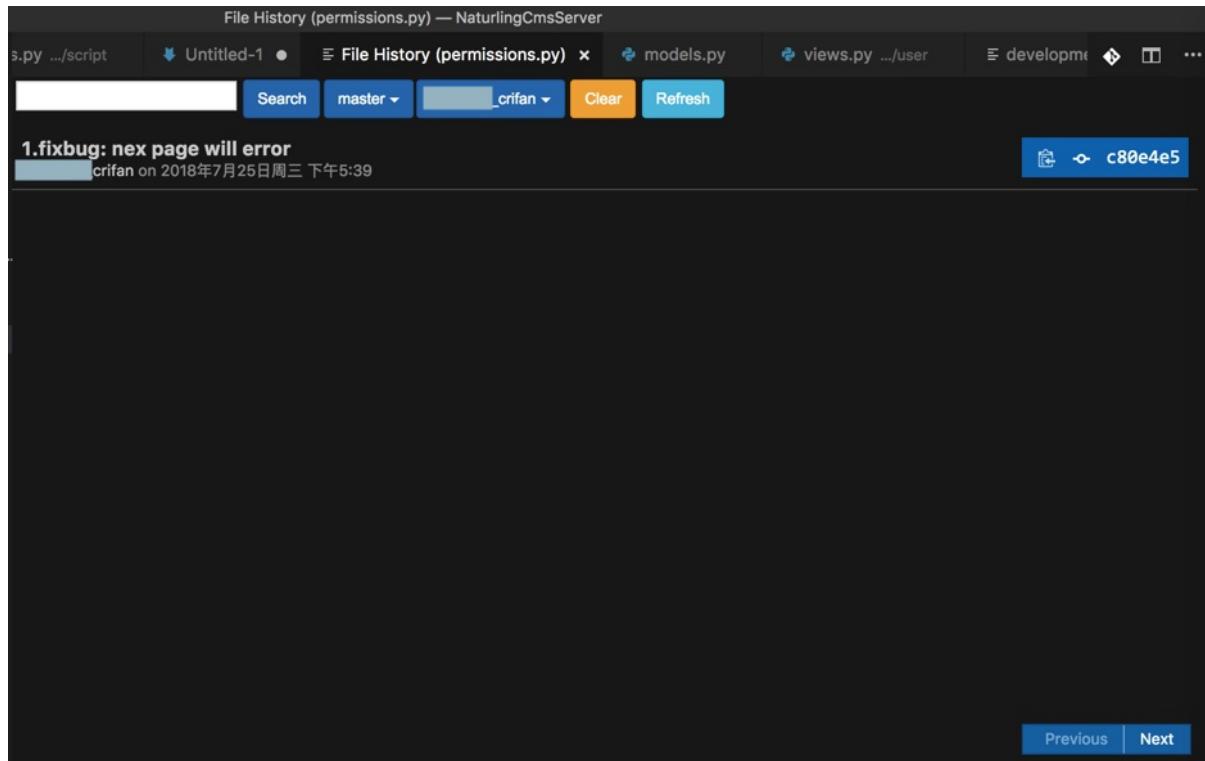
Previous Next

即可去该版本和当前最新文件，去对比内容差异：

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：



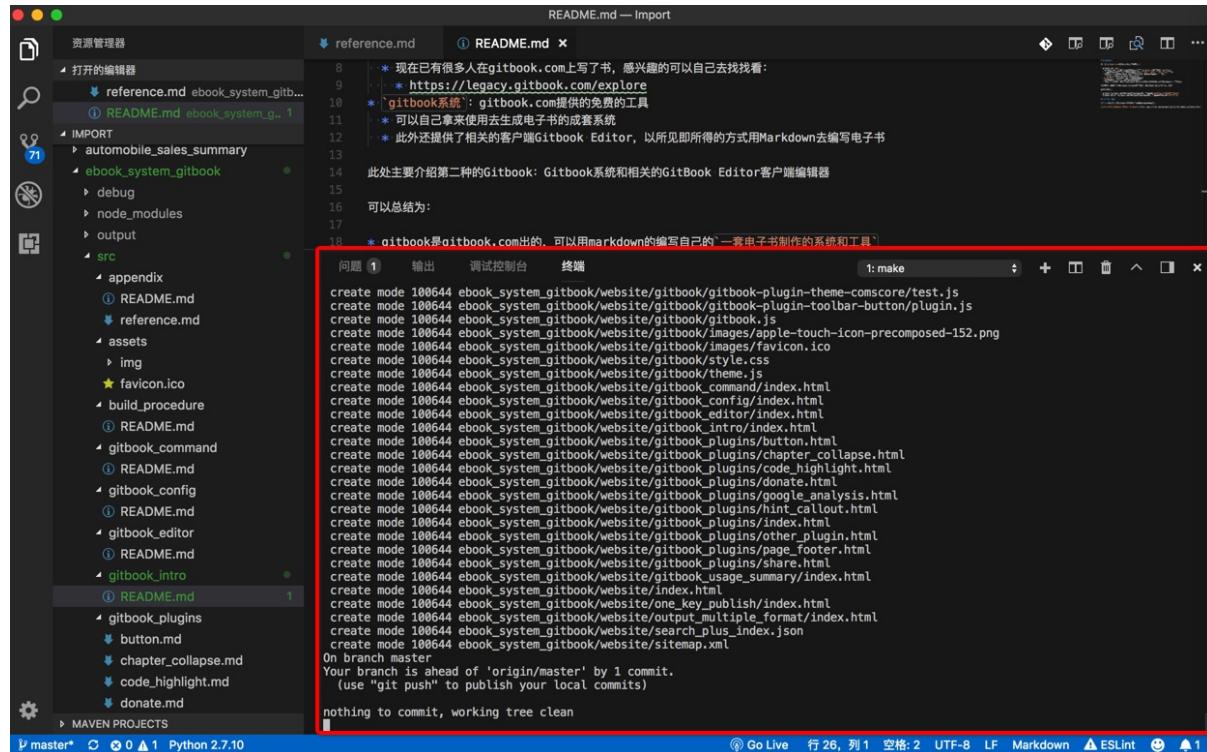
crifan.com, 使用[知识署名-相同方式共享4.0协议](#)发布 all right reserved, powered by Gitbook该文件修订时间: 2019-03-16 21:09:14

集成终端

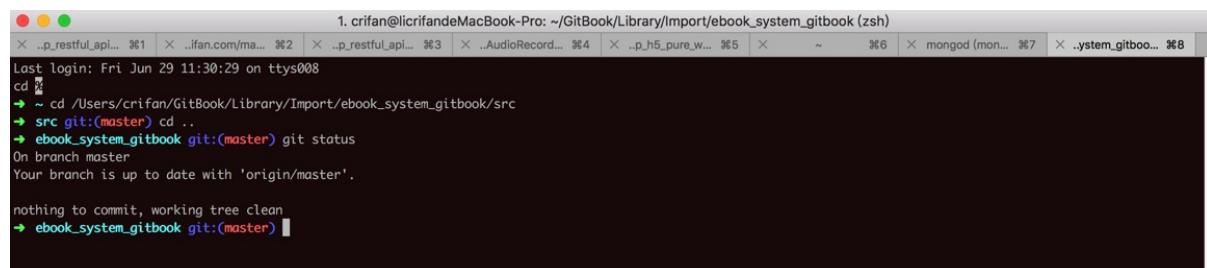
VSCode内置了终端：

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: zsh
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
 ! [new branch]      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

```

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) ✘
```

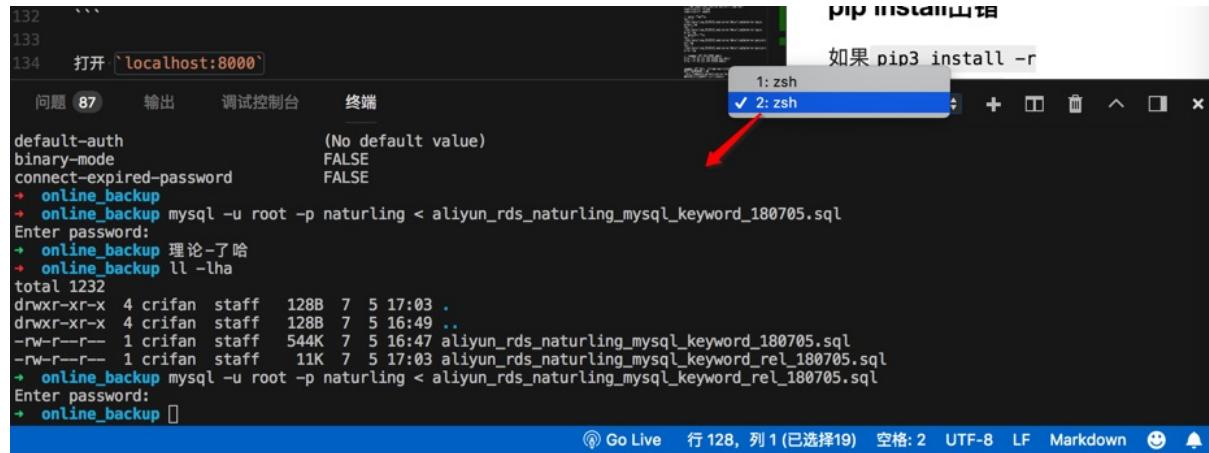
新的终端 (^◻^)

注意事项

pip install出错

如果 pip3 install -r

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：



```

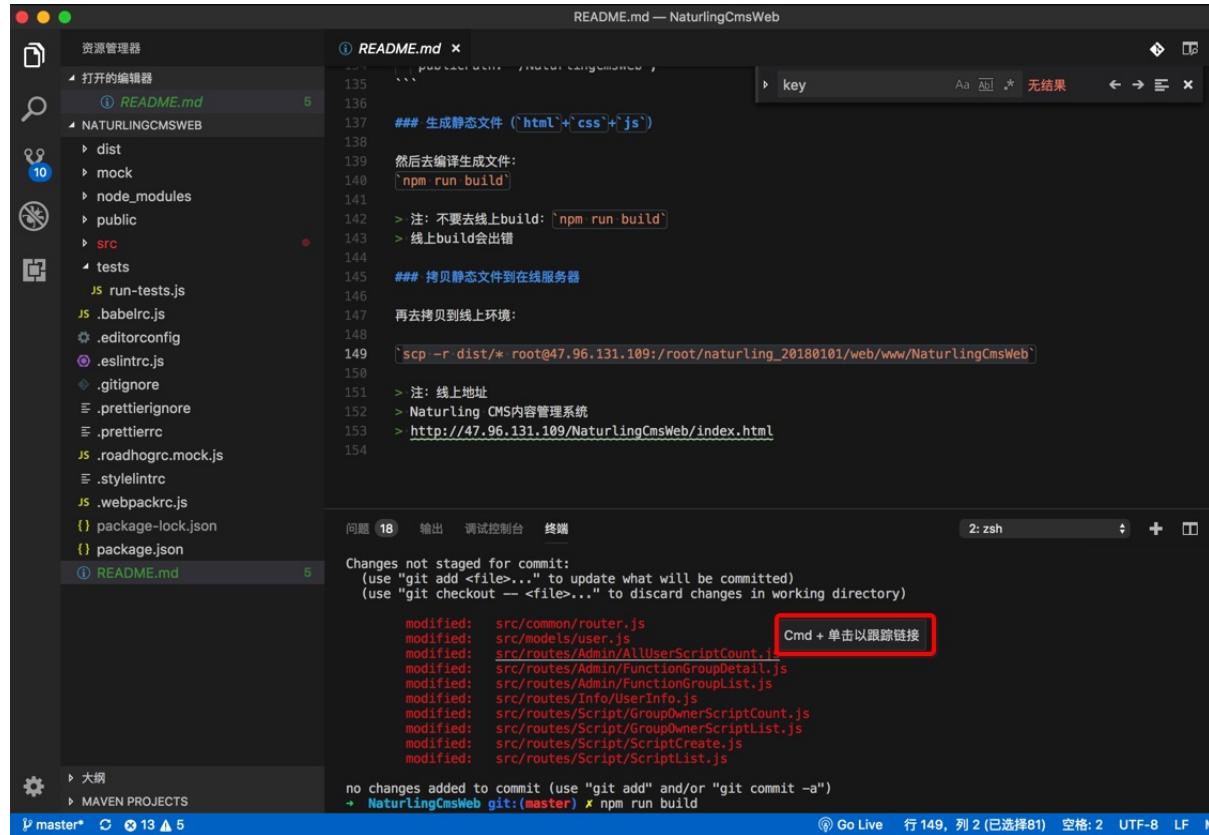
132  ```
133
134 打开 'localhost:8000'
问题 87    输出    调试控制台    终端    1: zsh
default-auth          (No default value)
binary-mode          FALSE
connect-expired-password  FALSE
→ online_backup
→ online_backup mysql -u root -p naturling < aliyun_rds_naturling_mysql_keyword_180705.sql
Enter password:
→ online_backup 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

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) x npm run build

```

Cmd + 单击以跟踪链接

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 the VS Code interface with the following details:

- File Explorer (Left):** Shows a tree view of the project structure under 'NATURLINGCMSWEB'. Files listed include README.md, AllUserScriptCount.js, login.js, mongodb.js, monitor.js, profile.js, project.js, register.js, rule.js, script.js, topic.js, user.js, routes, Admin, and various script-related files like FunctionGroupCreate.js, FunctionGroupDetail.js, FunctionGroupList.js, UserList.js.
- Editor (Top Right):** Displays the code for 'AllUserScriptCount.js'. The code imports React, PureComponent, Fragment from 'react', and connect from 'dva'. It uses antd's Card and Form components, and routerRedux from 'dva/router'. It also imports SimpleTable from 'components/SimpleTable', PageHeaderLayout from '../..../layouts/PageHeaderLayout', and styles from '../List/TableList.less'. The component is a class extending PureComponent with state and formValues.
- Terminal (Bottom):** Shows the output of a git command. It lists modified files: src/common/router.js, src/models/user.js, src/routes/Admin/AllUserScriptCount.js, src/routes/Admin/FunctionGroupDetail.js, src/routes/Admin/FunctionGroupList.js, src/routes/Info/UserInfo.js, src/routes/Script/GroupOwnerScriptCount.js, src/routes/Script/GroupOwnerScriptList.js, src/routes/Script/ScriptCreate.js, and src/routes/Script/ScriptList.js. It also shows the message: 'no changes added to commit (use "git add" and/or "git commit -a")' and the command '→ NaturlingCmsWeb git:(master) x 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

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插件市场

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常用插件

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Markdown Preview Enhanced

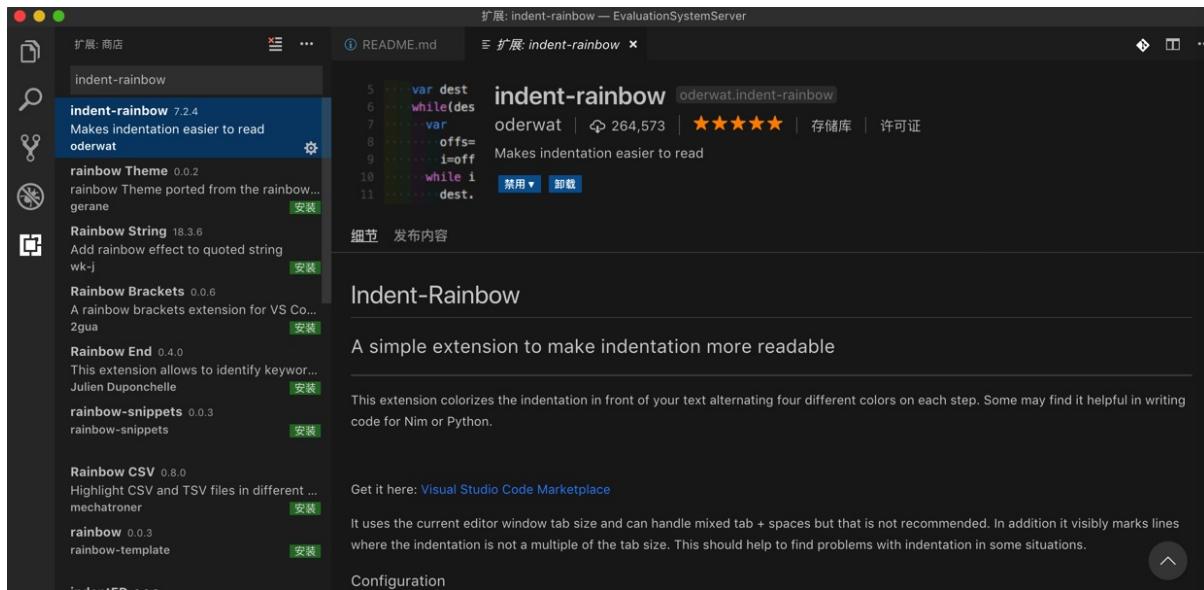
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indent-rainbow

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

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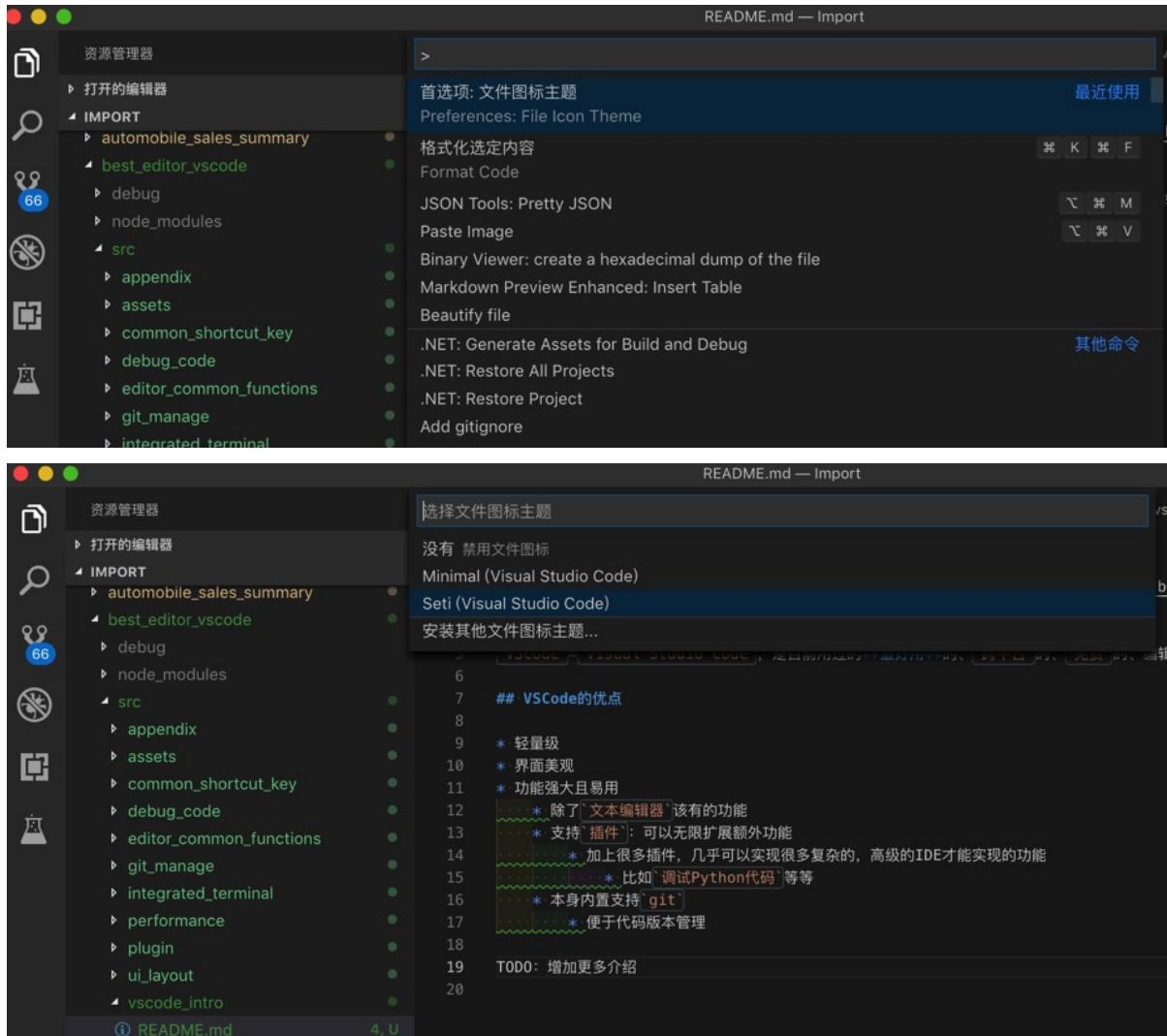
Paste Image

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: 2019-03-07 20:21:07

文件图标主题

vsCode 支持给文件的图标设置不同的主题。

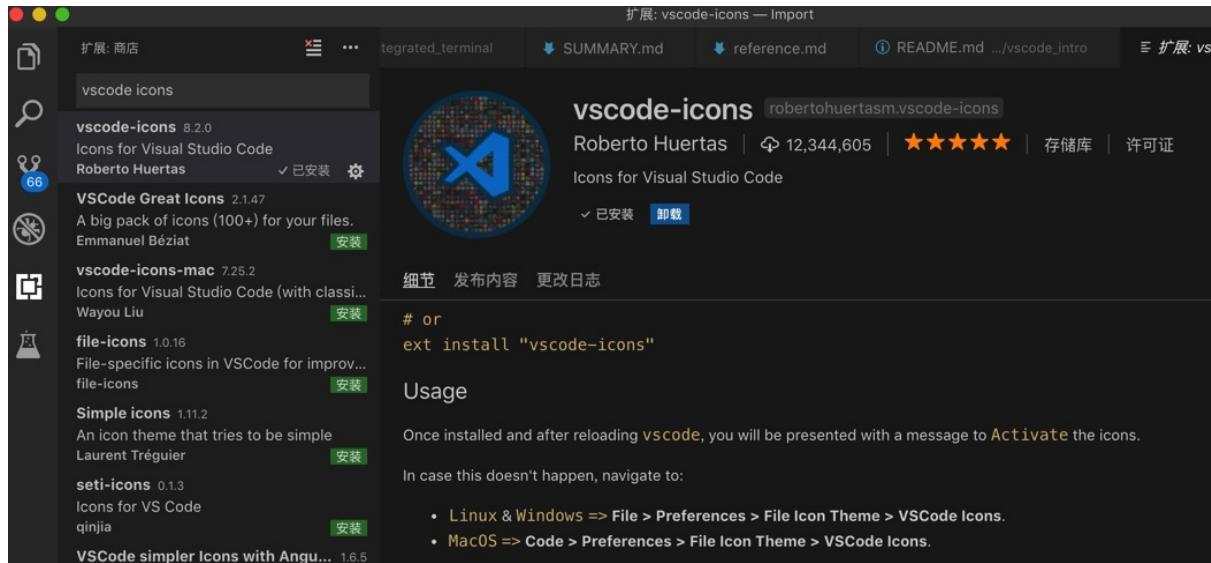
默认是 Seti 主题，效果是：



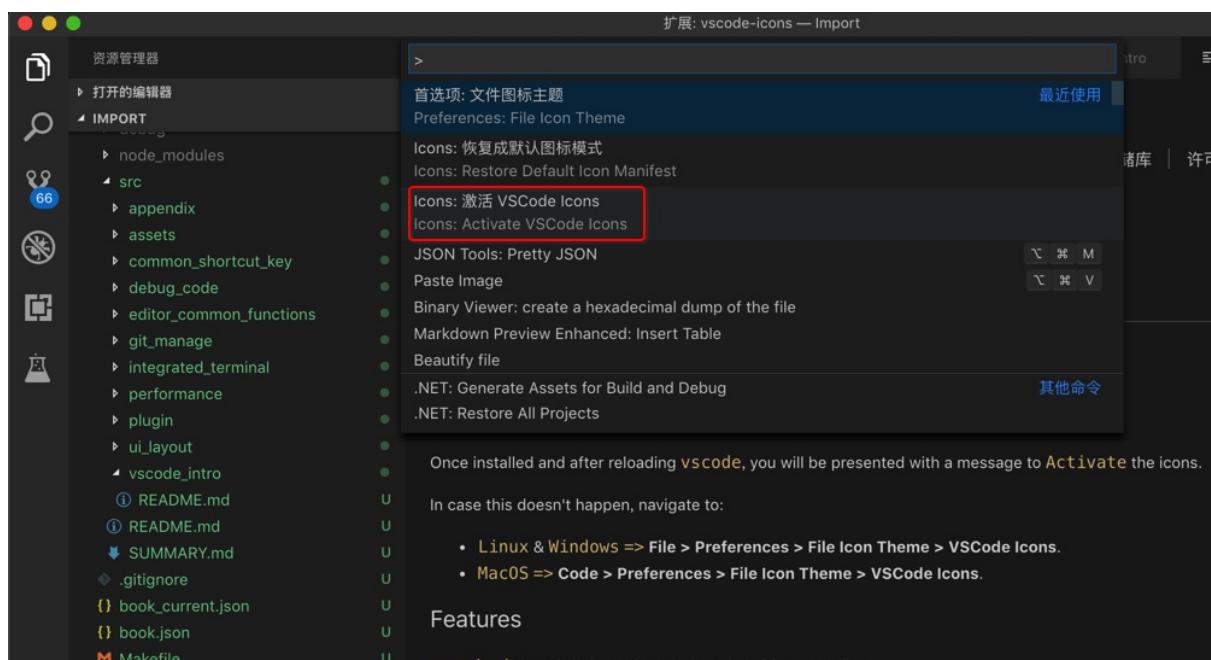
有其他新的图标的主题，比如：

[vscode-icons](#)

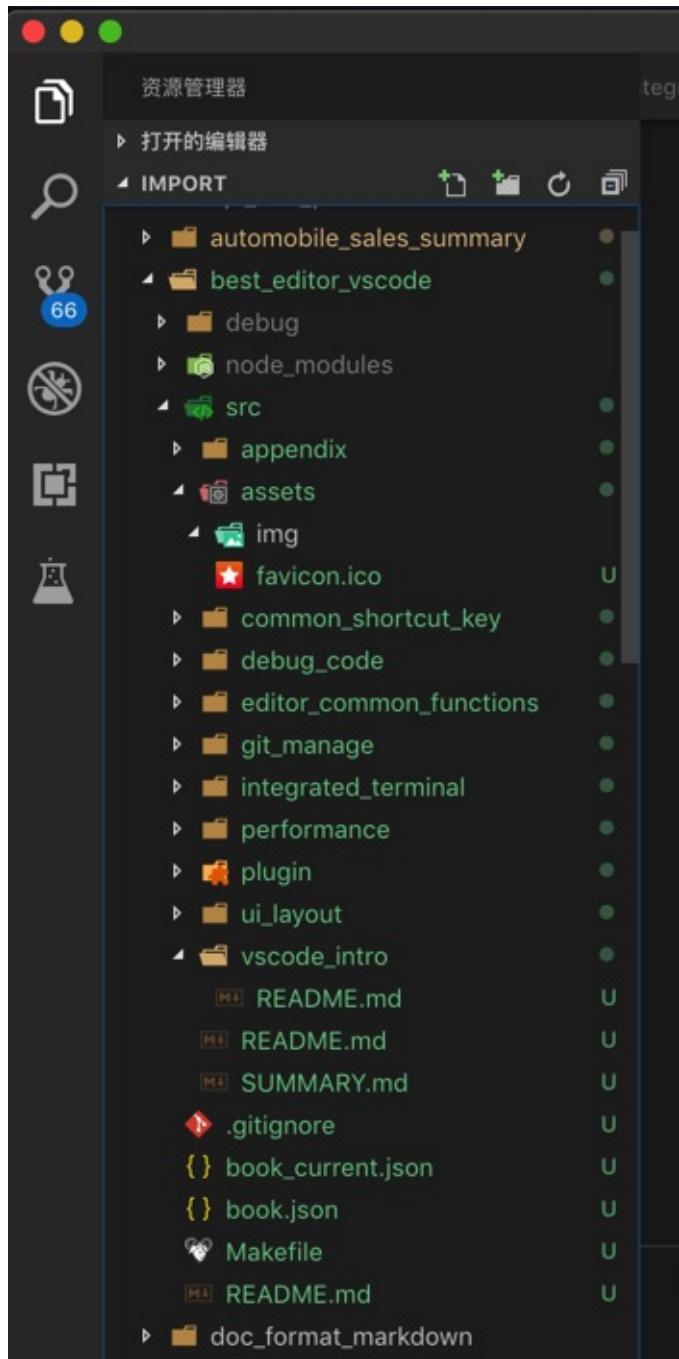
去安装：



之后再去激活：

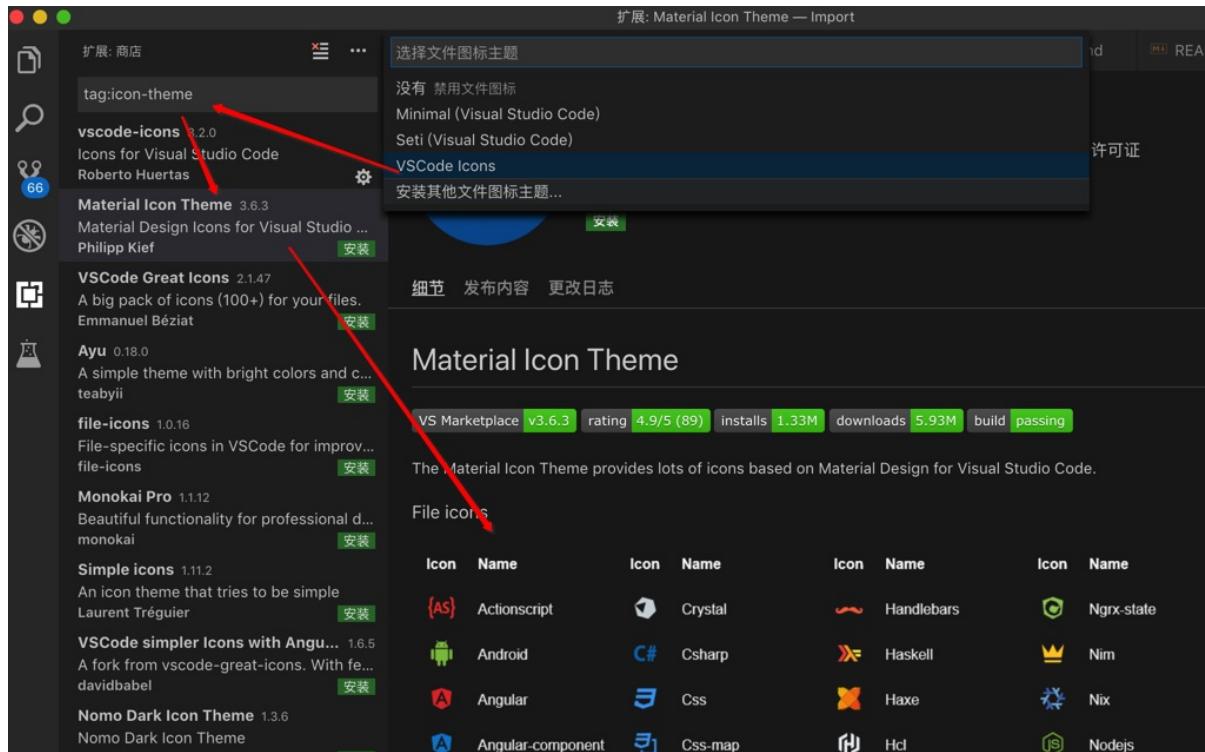


后的效果：



很不错，图标很丰富，识别度比较高。

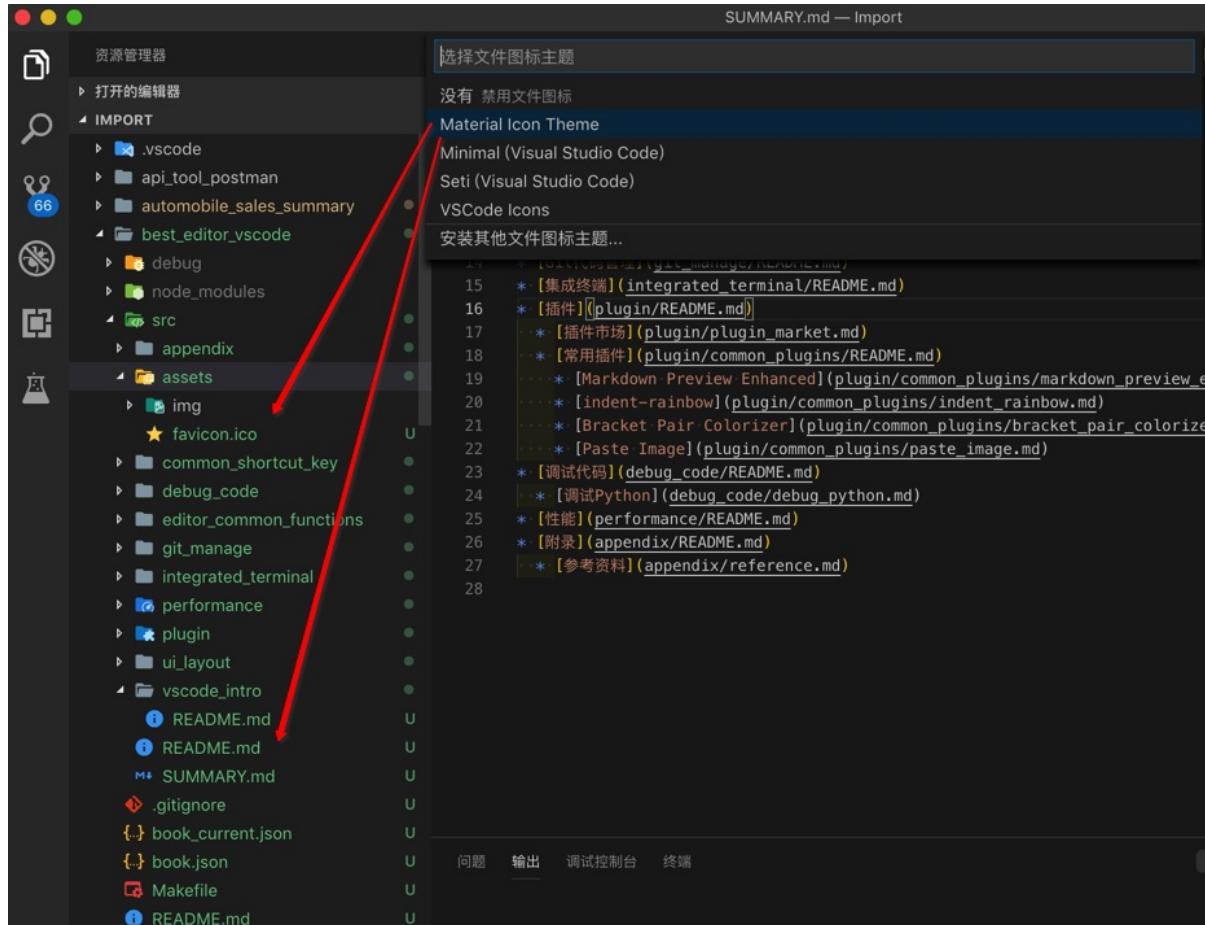
另外，可以再去根据提示去安装其他版本图标的主题：



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

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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/yo
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

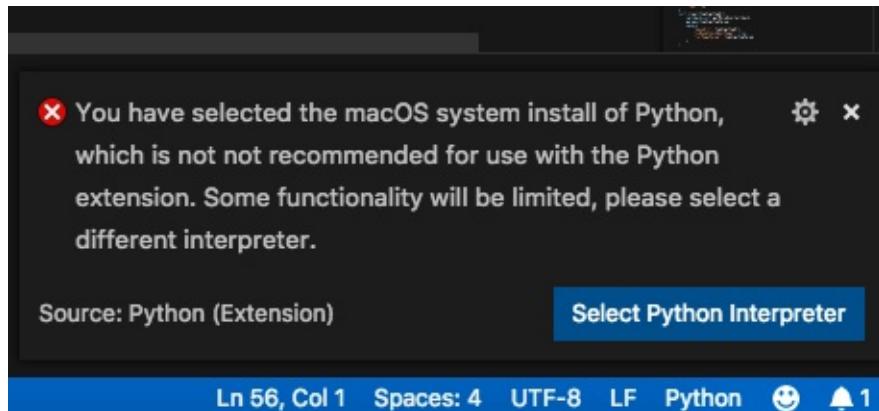
选择虚拟环境的Python版本

在用

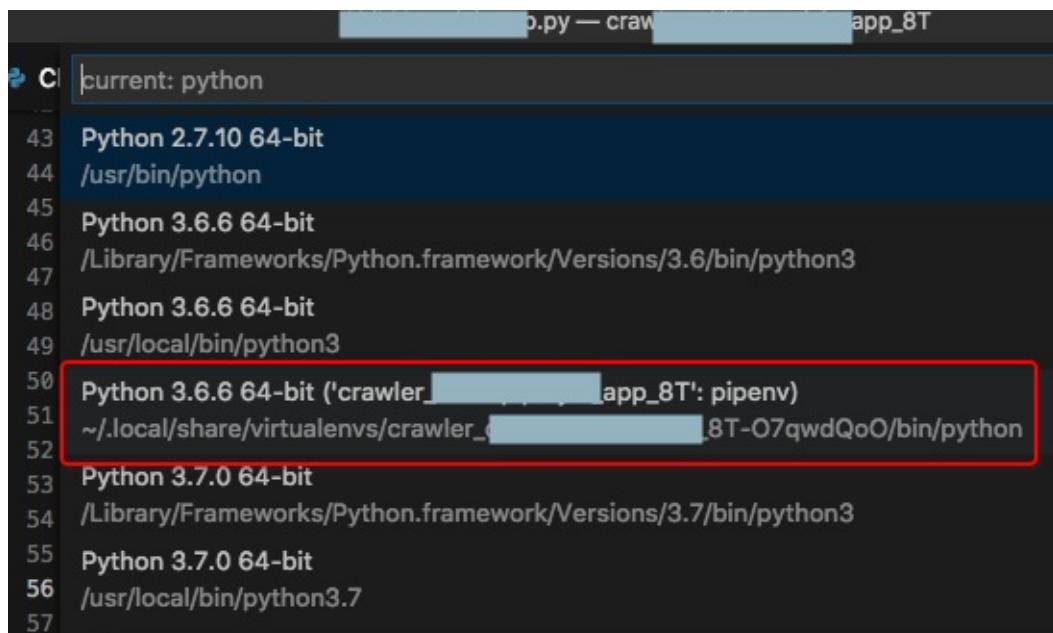
`pipenv install`

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：

```

    69     :return: current datetime formatted string
    70     """> curDatetime: datetime.datetime(2018, 7, 13, 15, 27, 53,
    71     curDat 5101
    72     curDat hour: 15
    73     return > max: datetime.datetime(9999, 12, 31, 23, 59, 5
    74     microsecond: 599388
    75     > min: datetime.datetime(1, 1, 1, 0, 0)
    76     def getCur minute: 27
    77     > cu month: 7
    78     get cu > resolution: datetime.timedelta(0, 0, 1)
    79     (d second: 53
    80     wl tzinfo: None
    81     year: 2018
    82     curDatetime = datetime.now()
    83     return datetimeToTimestamp(curDatetime, withMilliseconds)
  
```

CALL STACK PAUSED ON BREAKPOINT

```

getCurTimestamp crifanDatetime.py
testTimestamp crifanDatetime.py
<module> crifanDatetime.py 150:1
  
```

BREAKPOINTS

- All Exceptions
- Uncaught Exceptions
- crifanDatetime.py 83
- crifanDatetime.py 94
- crifanDatetime.py 150

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

```

80     ... with milliseconds -> 13 digits: 1531464292921
81     ...
82     ... curDatetime = datetime.now()
83     return datetimeToTimestamp(curDatetime, withMilliseconds)
84
85
86 def datetimeToTimestamp(datetimeVal, withM
87     ....
88     convert datetime value to timestamp
89     eg:
90     "2006-06-01 00:00:00" -> 11490
91     :param datetimeVal:
92     :return:
93     ....
94     timetupleValue = datetimeVal.timetuple()
95     timestampFloat = time.mktime(timetuple
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
  
```

datetime.datetime(2018, 7, 13, 15, 47, 33,

day: 13
hour: 15
max: datetime.datetime(9999, 12, 31, 23, 59, 5
microsecond: 958421
min: datetime.datetime(1, 1, 1, 0, 0)
minute: 47
month: 7
resolution: datetime.timedelta(0, 0, 1)
second: 33
tzinfo: None
year: 2018

的microsecond:

```

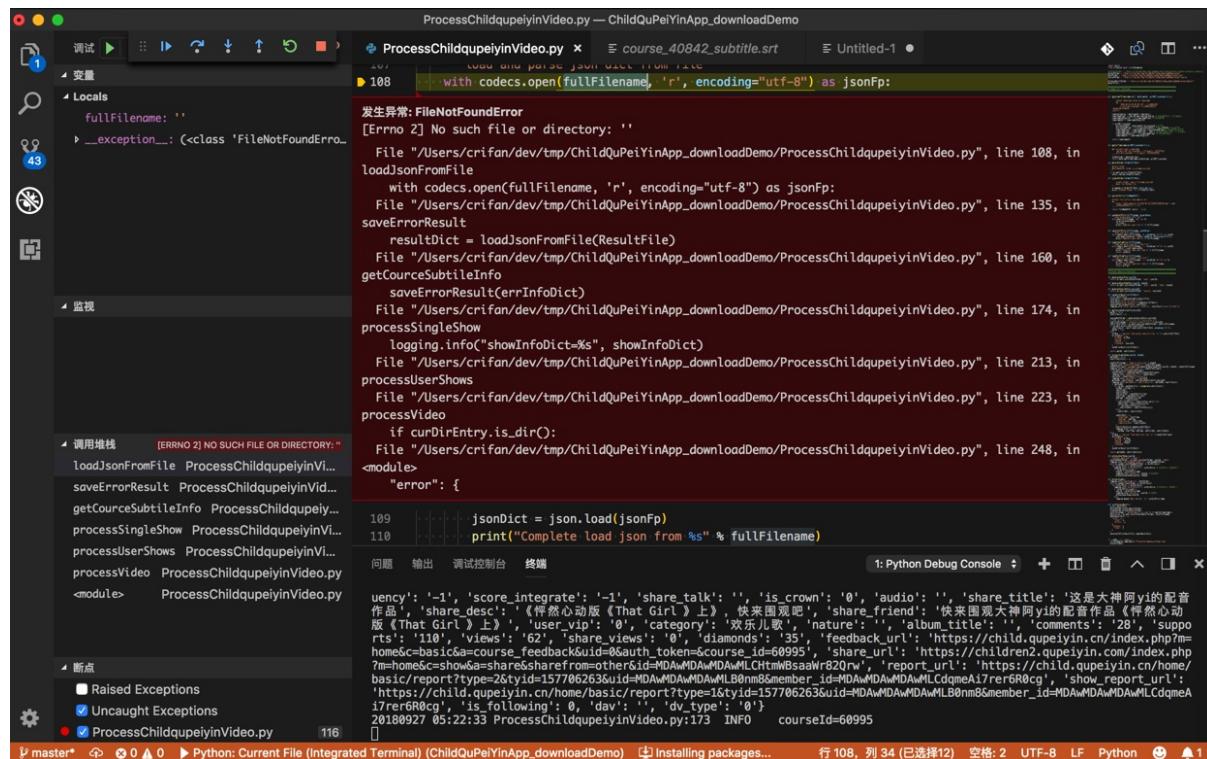
92     .return.
93     """
94     timetupleValue = datetimeVal.timetuple()
95     timestampFloat = time.mktime(timetupleValue) # -> 10 digits
96     if withMilliseconds:
97         microsecondFloat = float(datetimeVal.microsecond)/float(1000000)
98         timestampFloat = timestampFloat + microsecondFloat
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 62

调用堆栈 [ERRNO 2] NO SUCH FILE OR DIRECTORY: "

loadJsonFromFile ProcessChildqupeiyinVi... saveErrorResult ProcessChildqupeiyinVi... getCourseSubtileInfo ProcessChildqupeiyinVi... processSingleShow ProcessChildqupeiyinVi... processUserShows ProcessChildqupeiyinVi... processVideo ProcessChildqupeiyinVideo.py <module> ProcessChildqupeiyinVideo.py

断点

Raised Exceptions

Uncaught Exceptions

ProcessChildqupeiyinVideo.py 116

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\W]+)(\s*(\|\-\|)\s*)<topicLevel2>[\w\W]+)", topic)
239     # sports - skiing
240     # topicMatch = re.search("(?P<topicLevel1>[\w\W]+)\s*(\|\-\|)\s*(?P<topicLevel2>[\w\W]+)", topic)
241     # Sports - tae-kwon-do
242     topicMatch = re.search("(?P<topicLevel1>[\w\W]+)\s*(\|\-\|)\s*(?P<topicLevel2>[\w\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\W]+)(\s*(\|\-\|)\s*)<topicLevel2>[\w\W]+)", topic)
241     # Sports - tae-kwon-do
242     topicMatch = re.search("(?P<topicLevel1>[\w\W]+)\s*(\|\-\|)\s*(?P<topicLevel2>[\w\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

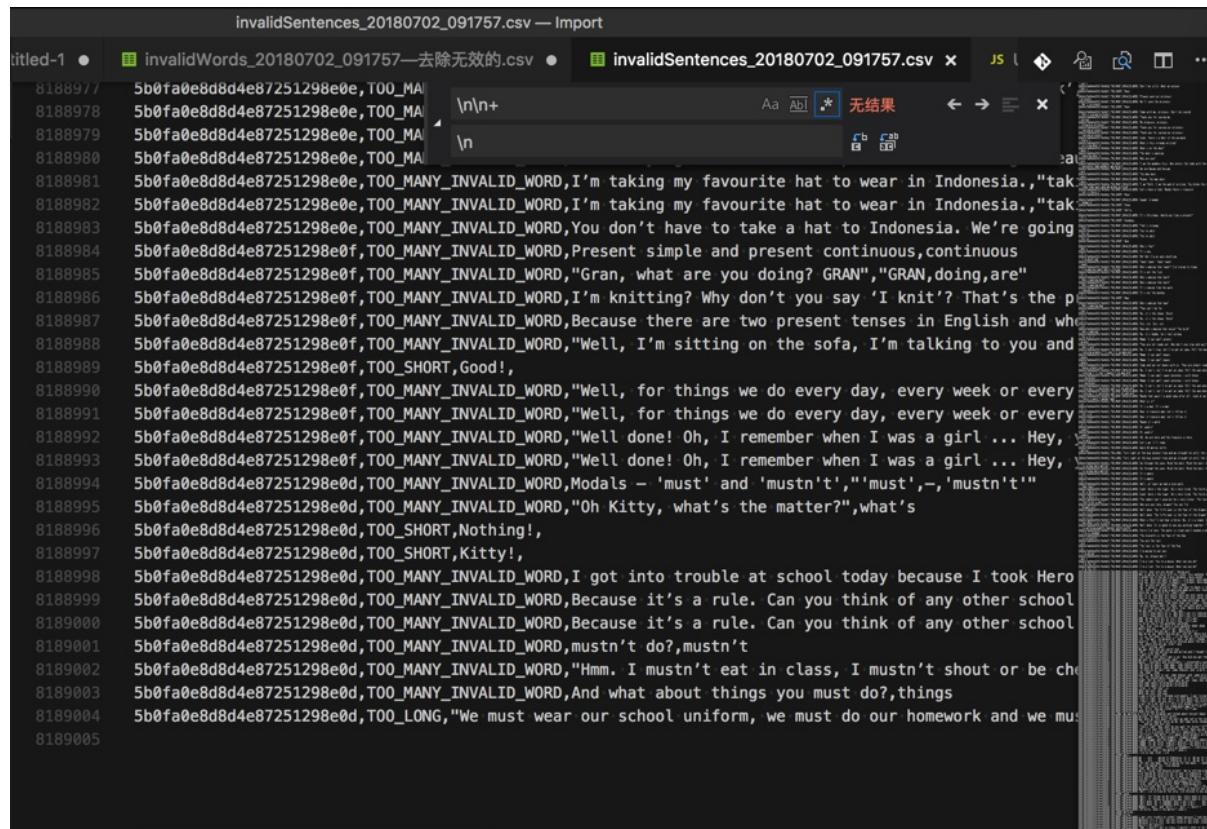
VSCode打开大文件速度也不错。

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 code editor interface with three tabs at the top: 'invalidWords_20180702_091757—去除无效的.csv — Import' (selected), 'invalidWords_20180702_091757—去除无效的.csv' (inactive), and 'invalidSentences_20180702_091757.csv'. The main pane displays a list of words, each preceded by a line number (e.g., 327532, 327533, ...). The search results panel is open, showing two search terms: '\n\n+' and '\n'. The results list contains several entries, such as 'F:ritz', 't:able()', 'legs(4)', 'denden', 'noThomas', 'remember:', 'machine:', 'keepthem', 'scallions', 'jim::by', 'topso', 'gasjets', 'possible', 'picture]', and 'Cracker_Jack'. The interface includes standard file, edit, and search tools.

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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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