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史上最好用的编辑器：VSCode

- 最新版本: v1.3.2
- 更新时间: 20240728

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：

HonKit源码

- [crifan/best_editor_vscode: 史上最好用的编辑器：VSCode](#)

如何使用此HonKit源码去生成发布为电子书

详见：[crifan/honkit_template: demo how to use crifan honkit template and demo](#)

在线浏览

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

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各种技术类教程，仅作为学习和研究使用。请勿用于任何非法用途。如有非法用途，均与本人无关。

鸣谢

感谢我的老婆陈雪的包容理解和悉心照料，才使得我 [crifan](#) 有更多精力去专注技术专研和整理归纳出这些电子书和技术教程，特此鸣谢。

其他

作者的其他电子书

本人 crifan 还写了其他 150+ 本电子书教程，感兴趣可移步至：

[crifan/crifan_ebook_readme: Crifan的电子书的使用说明](#)

关于作者

关于作者更多介绍，详见：

[关于CrifanLi李茂 – 在路上](#)

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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

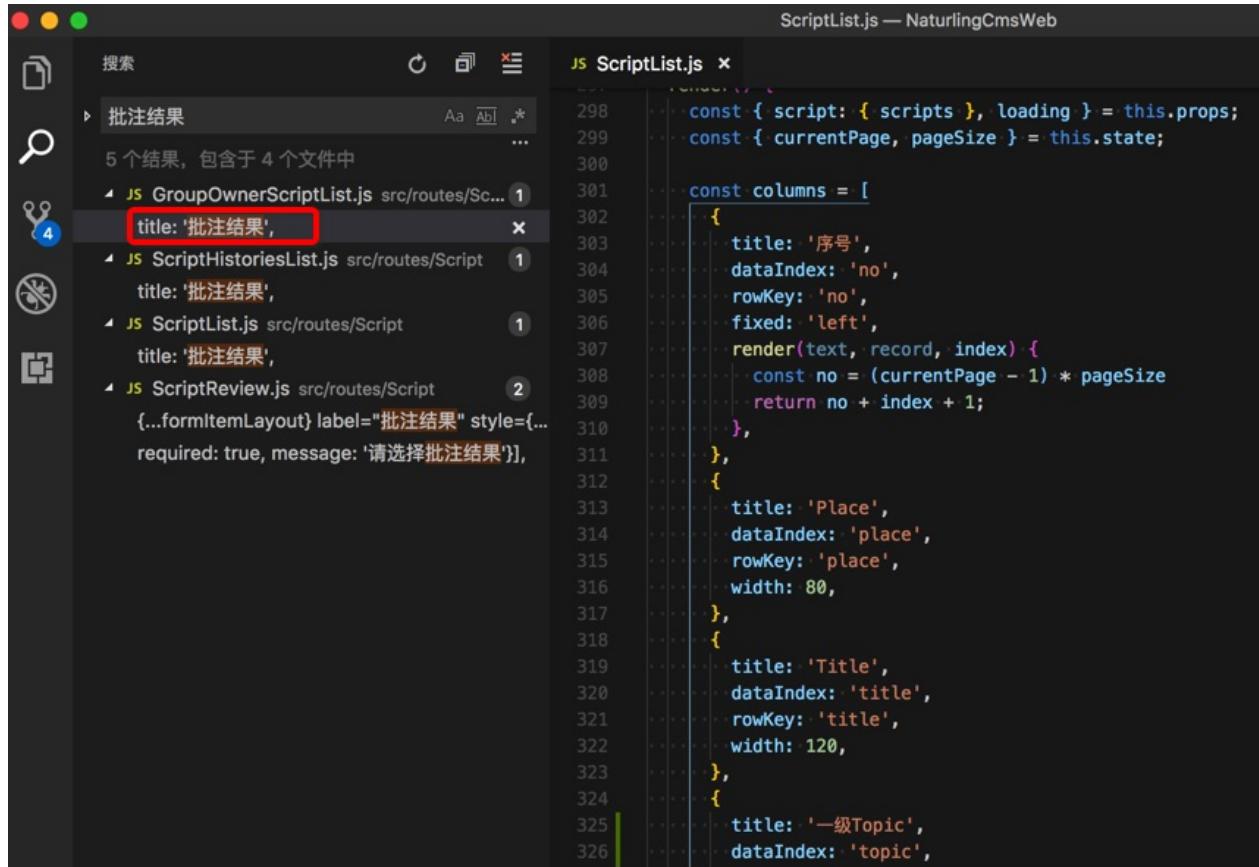
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界面布局

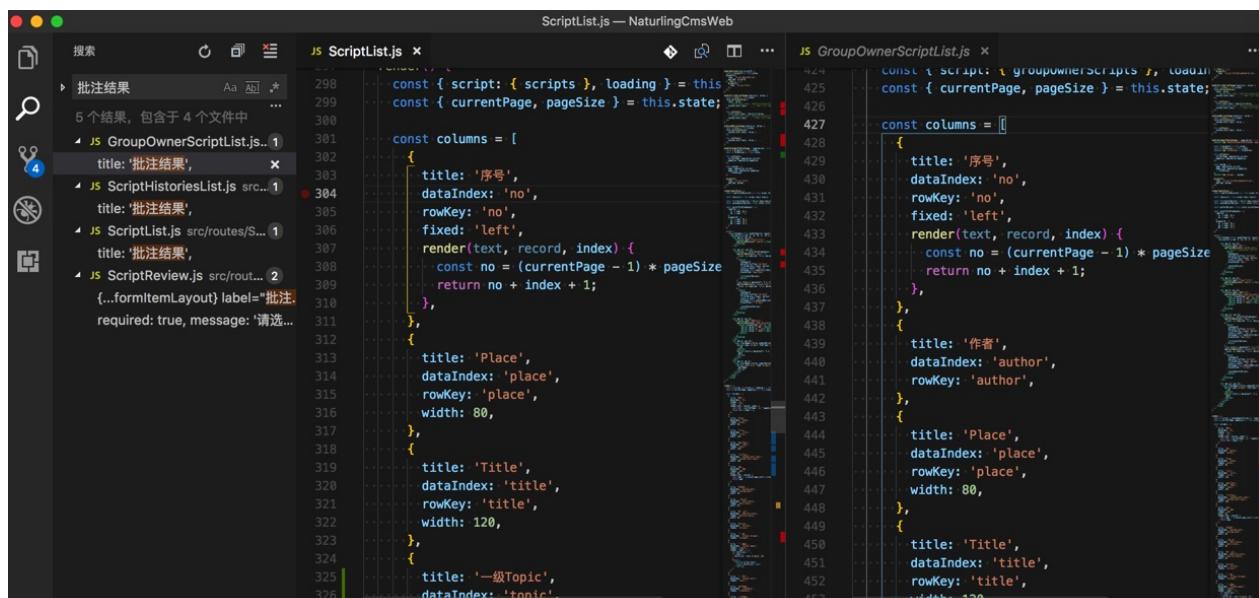
下面整理 vscode 的界面和布局。

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

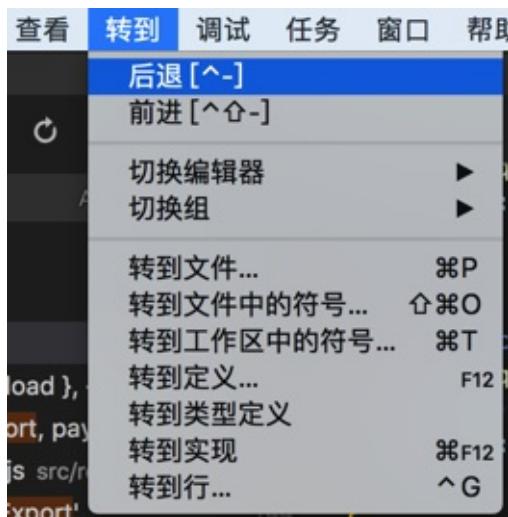
此处整理出 vscode 中最常用的一些快捷键，方便查询和使用。

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

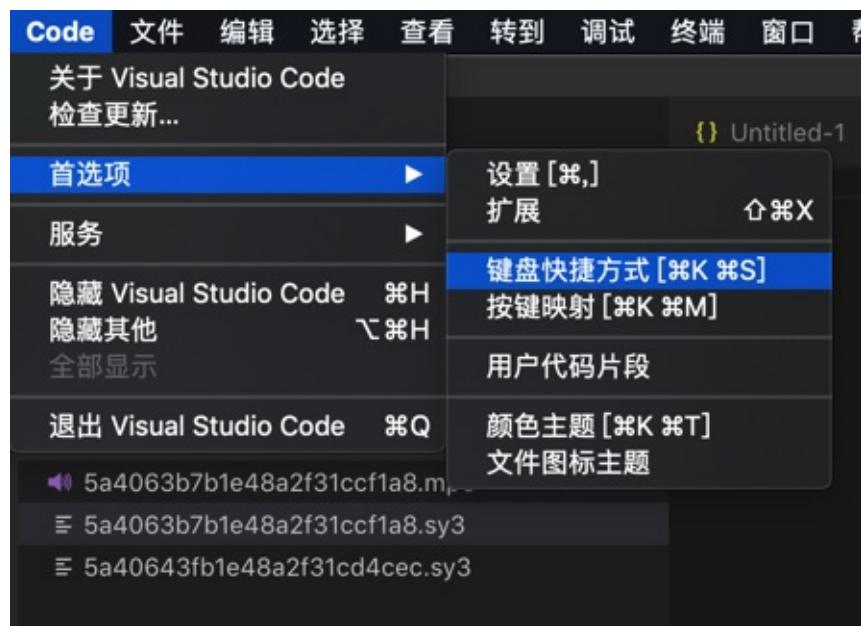
默认是没有的，可以自己去设置。比如：

- 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：



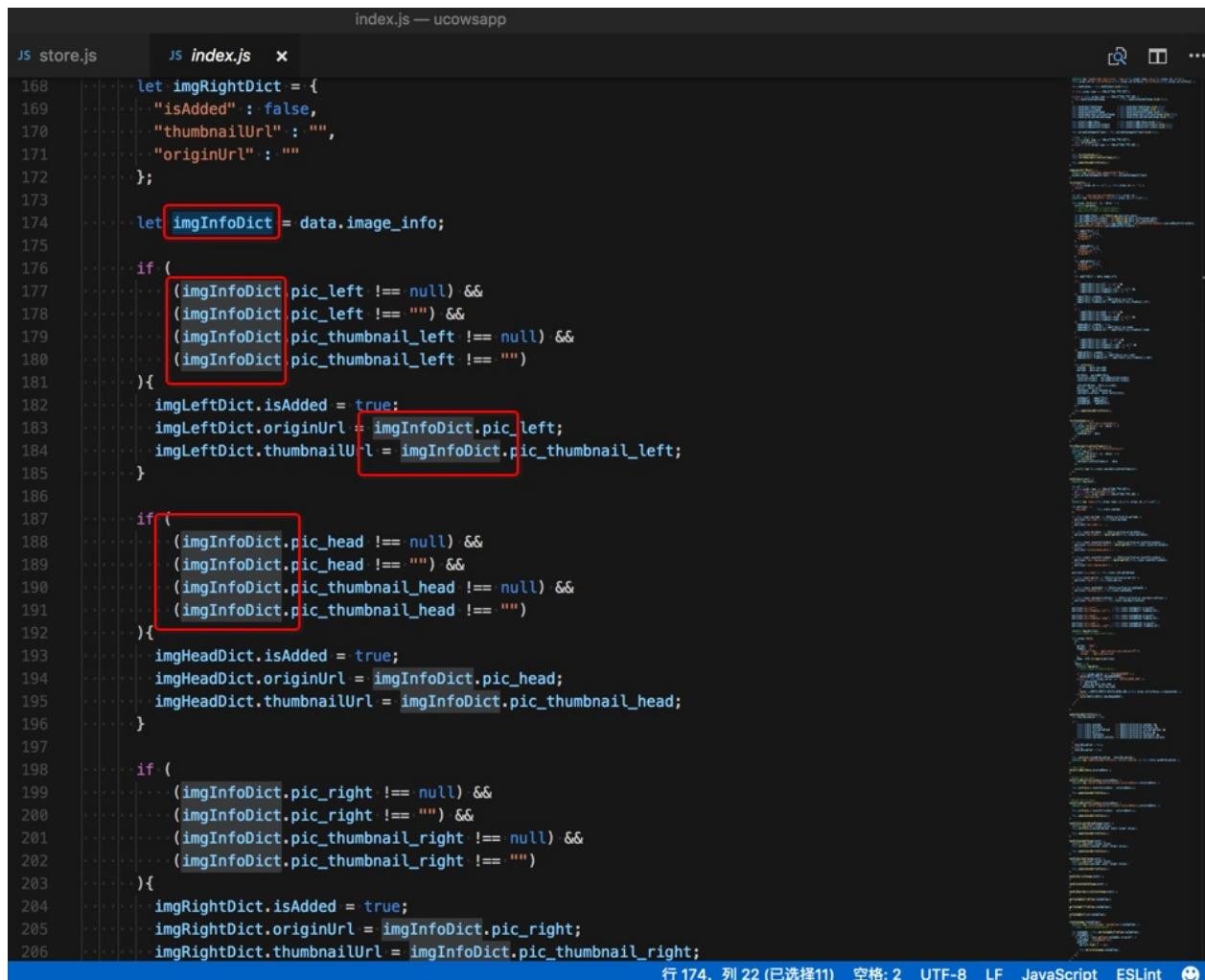
然后就可以通过搜短横线 - 就可以找到对应的快捷键的功能是 上一步 :

命令	键绑定	SOURCE	当
element-helper.search	⌃ ⌘ Z	默认值	editorTextFocus
element-helper.searchUnderCursor	⌃ ⌘ Z	默认值	editorTextFocus
Markdown Preview Enhanced: Run All	⌃ ⌘ Enter	默认值	editorLangId == 'markdown'
markdown-preview-enhanced.runAll	⌃ ⌘ Enter	默认值	editorLangId == 'markdown'
Markdown Preview Enhanced: Run Code	⌃ ⌘ Enter	默认值	editorLangId == 'markdown'
Markdown Preview Enhanced: Sync Preview	⌃ ⌘ S	默认值	editorLangId == 'markdown'
markdown-preview-enhanced.syncPreview	⌃ ⌘ S	默认值	editorLangId == 'markdown'
Markdown: Markdown Preview Enhanced	⌃ K V	默认值	editorLangId == 'markdown'
markdown-preview-enhanced.openPreview	⌃ K V	默认值	editorLangId == 'markdown'
References: Find All References	⌃ ⌘ F12	默认值	editorHasReferenceProvider
references-view.find	⌃ ⌘ F12	默认值	inQuickOpen
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: 扩大	⌃ ⌘ +	默认值	—

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 written in JavaScript. A specific line of code is highlighted with a red box around the variable 'imgInfoDict'. This highlights other occurrences of 'imgInfoDict' in the same file across multiple lines. The status bar at the bottom of the editor shows the current line (174), column (22), selection count (11), and other settings like 'UTF-8' and 'JavaScript'.

```

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。

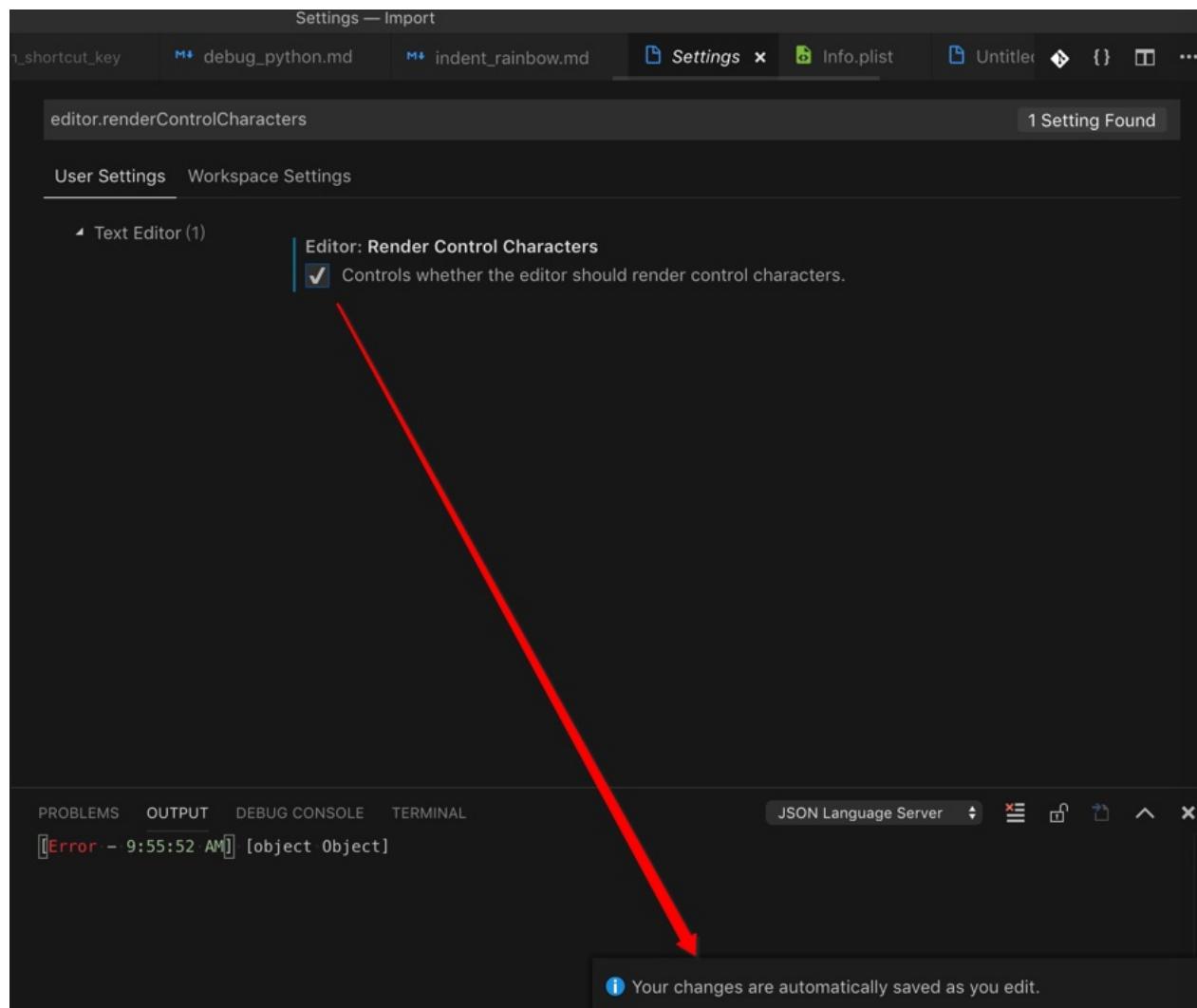
支持不同主题和字体

[【记录】VSCode试试其他主题和字体和插件](#)

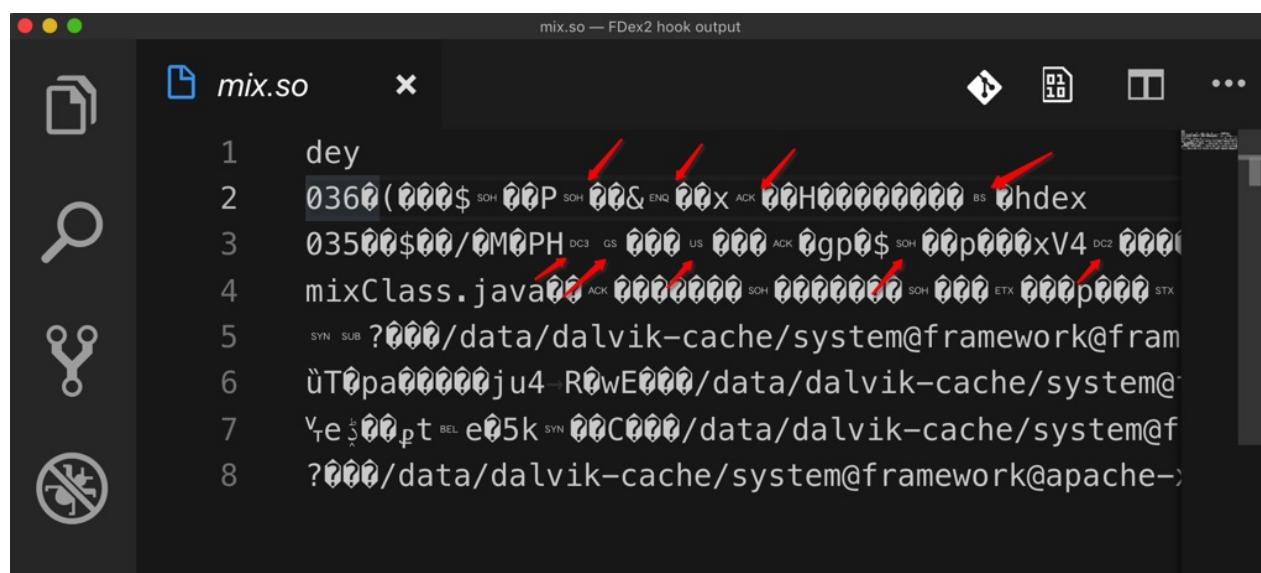
显示特殊的不可见的控制字符

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
```

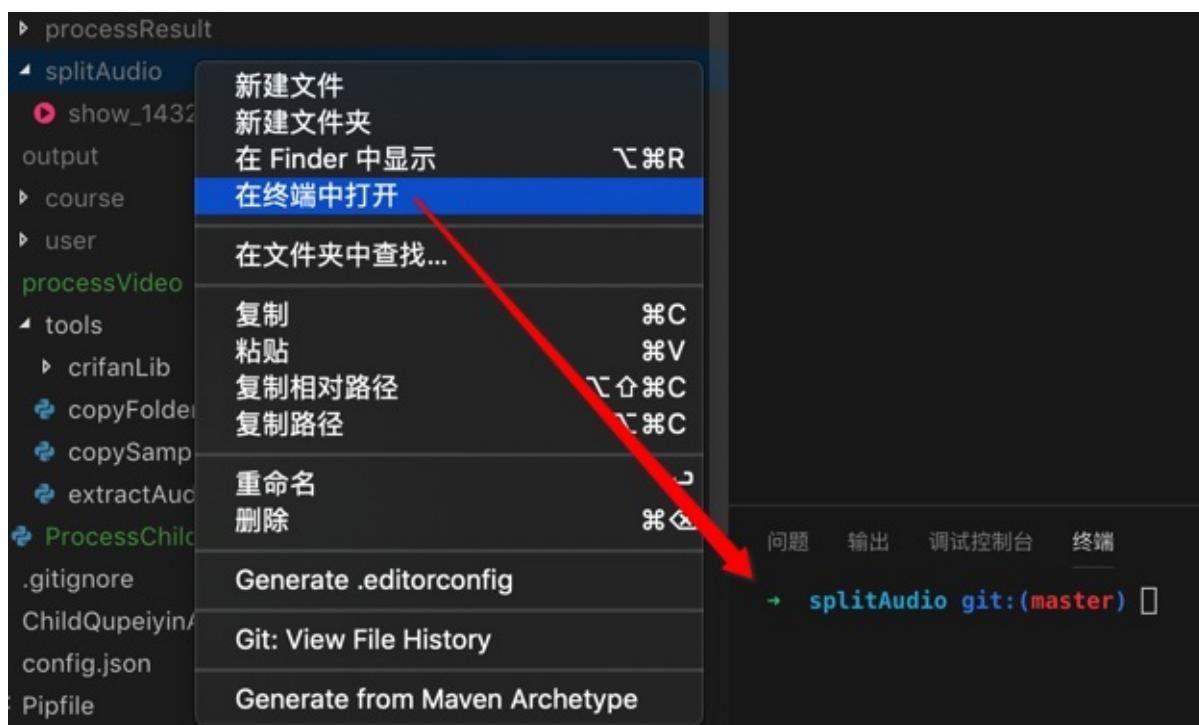
即可立刻生效：按Tab后，缩进就从4个空格的宽度，变成2个空格的宽度了。

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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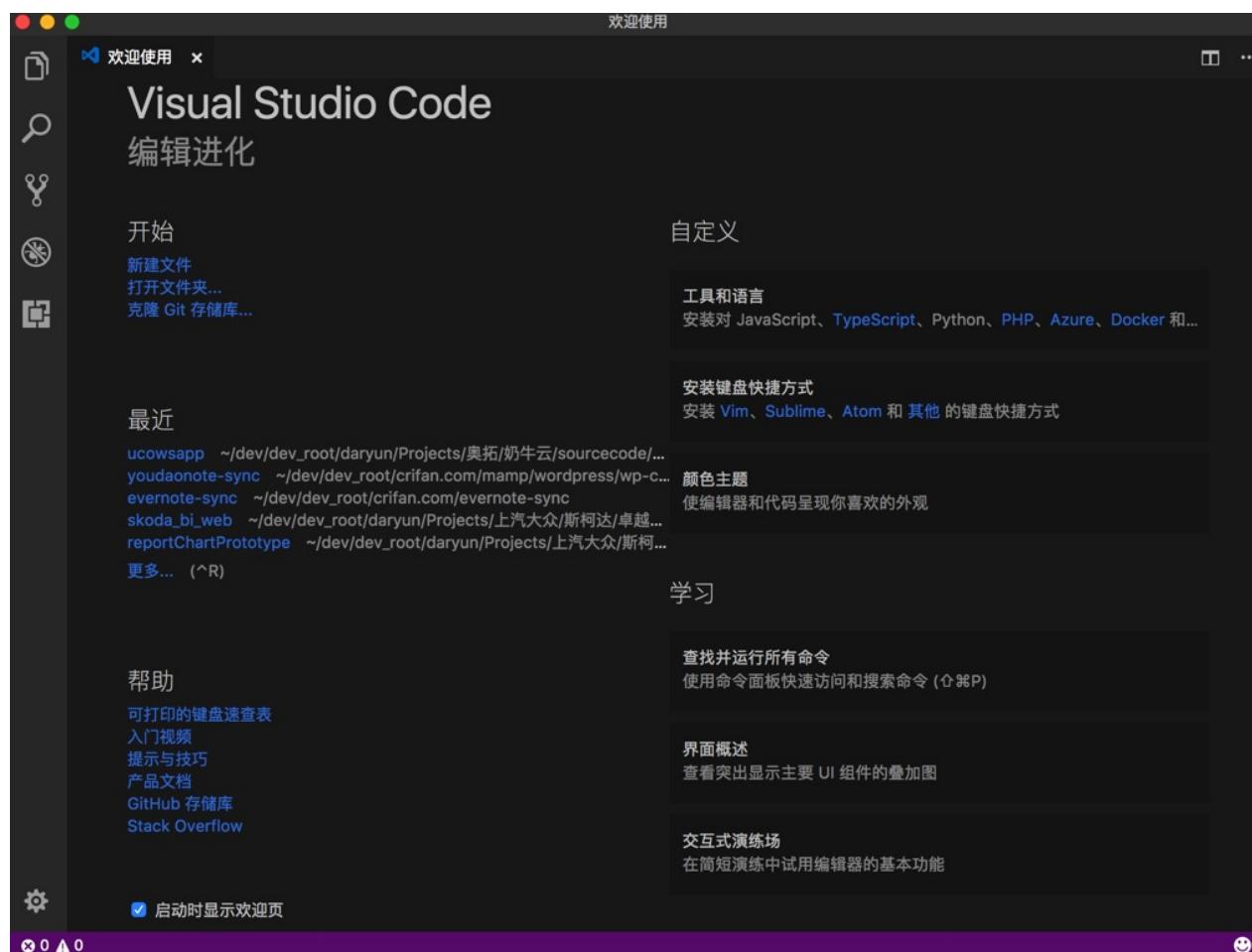
打开和新建项目

新建项目很方便

普通新建项目

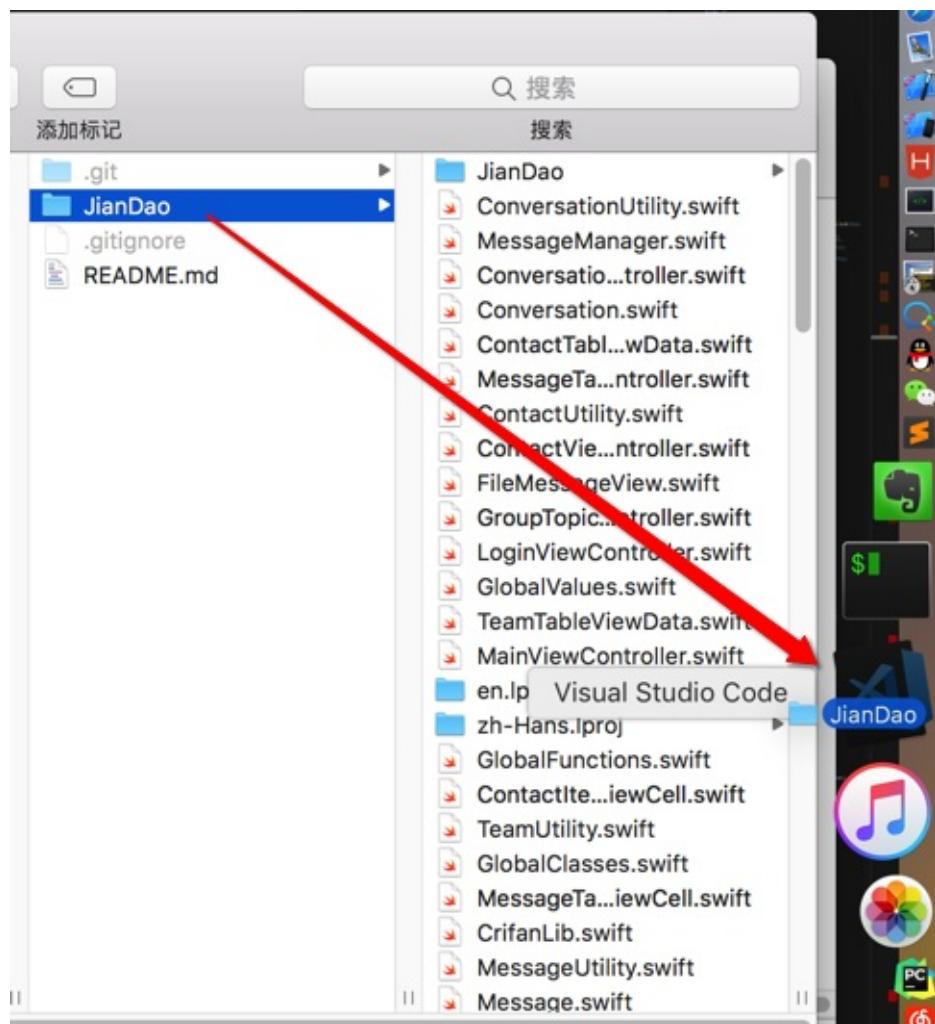


即可新建项目和窗口了：



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
169     }
170
171     //    print("curTimestamp=\(curTimestamp), today=\(today)-> curT
172
173     return curTimestampStr
174 }
175
176 func removeBackSlash(inputStr:String) -> String {
177     return inputStr.replace("\\\\\"", to: "\\\"")
178 }
179
180
181 func storeUserAndPassword(user:String, password:String){
182     //method 1: store in plain text
183     //UserDefaults.standardUserDefaults().setValue(user, forKey:
184     //UserDefaults.standardUserDefaults().setValue(password, forKe
185
186     //method 2: store to encryption info
187     if !user.isEmpty {
188         let saveUserOk: Bool = KeychainWrapper.setString(user, fo
189         gLog.info("save user \(user) \(saveUserOk)")
190     }
191
192     if !password.isEmpty{
193         let savePasswordOk: Bool = KeychainWrapper.setString(passw
194         gLog.info("save password \(savePasswordOk)")
195     }
196 }
197
198 func restoreUserAndPassword() -> (Bool, String?, String?) {
199     var restoreOk = false
200     var prevStoredUser:String?
201     var prevStoredPassword:String?
202
203     //    //method 1: get previous stored in plain text
204     //    let prevStoredUser = UserDefaults.standardUserDe
205     //    let prevStoredPassword = UserDefaults.standardUs
206

```

非常方便 -》 用了后，就离不开了。

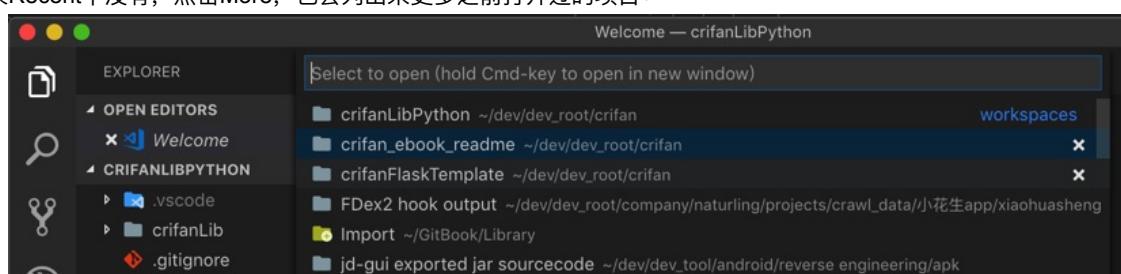
打开项目

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：

◦

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": {"serviceT
  {"key": "has_unlimited_ncc_fre
  23716257, 23716663, 23716986, 23
  23726508, 23727146, 23727420, 23
  9452652, 9471239, 9474357, 94756
  "params": [{"key": "context", "v
  {"key": "logged_in", "value": "1
  "value": "WEB"}, {"key": "cver",
  "value": "WEB"}, {"key": "client
  {"key": "innertube.build.exper
  "value": "youtube.ytfe_jserv_2
  {"key": "innertube.build.varia
  "value": "ytfe-jserv-replica-o
  "visitorData": "CgthcnVCbdyZn
  {"polymerOptOutFeedbackDialog
  us why. Your feedback helps u
  {"text": "youtube.com/new", "nav
  "urlEndpoint": {"url": "https://www.youtube.com/new"}, {"text": "."
  "options": [{"polymerOptOutFeedbackOptionRenderer": {
  {"optionKey": "missing", "descri
  {"polymerOptOutFeedbackOptionRender
  {"optionKey": "broken", "descri
  {"responsePlaceholder": {"run
  {"runs": [{"text": "Something is
  {"optionKey": "harder", "descri
  {"runs": [{"text": "Something is
  {"responsePlaceholder": {"optionK
  {"optionKey": "dislike", "descri
  {"polymerOptOutFeedbackOptionRender
  {"optionKey": "unlisted", "descri
  {"runs": [{"text": "My reason isn't
  {"responsePlaceholder": {"run
  {"polymerOptOutFeedbackNullOptionR
  {"description": {"runs": [{"text": "I
  {"disclaimer": {"runs": [
  {"text": "Go to the ", "text": "Legal Help page", "navigationEndpo
  "url": "https://support.google.com/youtube/bin/answer?&answer=140536"}, "urlEndpoint": {
  {"url": "https://support.google.com/youtube/bin/answer?&answer=140536"}, {"text": " to request content changes for legal reasons. Your
  feedback, additional info, and email will be sent to Google. See ", {"text": "Privacy Policy", "navigationEndpo
  "webCommandMetadata": {"url": "https://www.google.com/policies/privacy"}, "urlEndpoint": {"url": "https://www.google.com/policies/privacy"}
  }, {"text": " and ", {"text": "Terms of Service", "navigationEndpo
  {"url": "https://www.google.com/policies/terms"}, "urlEndpoint": {"url": "https://www.google.com/policies/terms"}, {"text": ". "
  "dismissButton": {"buttonRender
  {"style": "STYLE_TEXT", "size": "SIZE_DEFAULT", "isDisabled": false, "text": {"runs": [{"text": "No thanks"}]}}, "submitButto
  {"buttonRender": {"style": "STYLE_BRAND", "size": "SIZE_DEFAULT", "isDisabled": true, "text": {"runs": [{"text": "Submit"}]}}}, "closeButton": {"buttonRender": {"style": "STYLE_DEFAULT", "size": "SIZE_DEFAULT", "isDisabled": false, "icon": {"iconType": "CLOSE"}}, "cancelButton": {"buttonRender": {"style": "STYLE_TEXT", "size": "SIZE_DEFAULT", "isDisabled": false, "text": {"runs": [{"text": "Cancel"}]}}, "contents": [{"twoColumnWatchNextResults": {"results": {"contents": [{"videoPrimaryInfoRenderer": {"title": {"simpleText": "Humf - Compilation (episodes 16 to 22)"}, "viewCount": {"viewCount": {"simpleText": "117,791 views"}, "shortViewCount": "117,791 views"}]}]}]}]}]
```

然后再去右键-》 格式化文件

Untitled-1

```

{
  "responseContext": {"serviceTrackingParams": [{"service": "GFEEDBACK", "params": [{"key": "has_unlimited_entitlement", "value": "False"}, {"key": "has_unlimited_ncc_free_trial", "value": "False"}, {"key": "e", "value": "237088906, 23708910, 23710476, 23712994, 23713711, 23715480, 23716257, 23716663, 23716986, 23717456, 23719518, 23719525, 23721699, 23721898, 23722182, 23723618, 23724477, 23724688, 23725111, 23726426, 23726508, 23727146, 23727420, 3300116, 3300132, 3300161, 3313274, 3313321, 3314088, 9405989, 942596, 9431754, 9441384, 9449243, 9452652, 9471239, 9474357, 9475643, 9485000, 9486759}], [{"key": "context", "value": "yt_web_kevlar_watcher"}, {"key": "logged_in", "value": "1"}, {"service": "CSI", "params": [{"key": "cver", "value": "2.20180227"}, {"key": "client.version", "value": "2.20180227"}, {"key": "innertube.build.experiments.source_version", "value": "ytfe-jserv Replica-only.ytfe"}, {"key": "innertube.build.variants.checksum", "value": "93544333"}, {"key": "visitorData", "value": "CgthcnVCbdyZndR0%3D%3D", "sessionIndex": 1}, {"polymerOptOutFeedbackDialogRenderer": {"title": {"text": "We're sorry to see you go!"}}, "subtitle": {"text": "Please tell us why. Your feedback helps us improve YouTube. Remember, you can always return to the new design by going to "}, {"text": "youtube.com/new", "navigationEndpoint": {"commandMetadata": {"url": "https://www.youtube.com/new"}}, "urlEndpoint": {"url": "https://www.youtube.com/new"}, {"text": ". "}, {"text": "To request content changes for legal reasons. Your feedback, additional info, and email will be sent to Google. See ", {"text": "Privacy Policy", "navigationEndpoint": {"commandMetadata": {"url": "https://www.google.com/policies/privacy"}}, "urlEndpoint": {"url": "https://www.google.com/policies/privacy"}}, {"text": " and ", {"text": "Terms of Service", "navigationEndpoint": {"commandMetadata": {"url": "https://www.google.com/policies/terms"}}, "urlEndpoint": {"url": "https://www.google.com/policies/terms"}}, {"text": ". "}, {"text": "No thanks", "dismissButton": {"buttonRenderer": {"style": "STYLE_TEXT", "size": "SIZE_DEFAULT", "isDisabled": false, "text": {"runs": [{"text": "No thanks"}]}}, "submitButton": {"buttonRender": {"style": "STYLE_BRAND", "size": "SIZE_DEFAULT", "isDisabled": true, "text": {"runs": [{"text": "Submit"}]}}}, "closeButton": {"buttonRender": {"style": "STYLE_DEFAULT", "size": "SIZE_DEFAULT", "isDisabled": false, "icon": {"iconType": "CLOSE"}}, "cancelButton": {"buttonRender": {"style": "STYLE_TEXT", "size": "SIZE_DEFAULT", "isDisabled": false, "text": {"runs": [{"text": "Cancel"}]}}, "contents": [{"twoColumnWatchNextResults": {"results": {"contents": [{"videoPrimaryInfoRenderer": {"title": {"simpleText": "Humf - Compilation (episodes 16 to 22)"}, "viewCount": {"viewCount": {"simpleText": "117,791 views"}, "shortViewCount": "117,791 views"}]}]}]}]}]}
```

或者：全选 -》 右键-》 格式化选定代码 :

The screenshot shows a code editor window with a dark theme. A context menu is open at the bottom of the screen, specifically the 'Format Selection' option under the 'Format' submenu. The menu items include 'Cut', 'Copy', 'Paste', 'Git: View File History', 'Git: View Line History', and 'Command Panel...'. The main code area contains several lines of JSON code related to YouTube's feedback system.

```

{
  "responseContext": {
    "serviceTrackingParams": [
      {
        "service": "GFEEDBACK",
        "params": [
          {
            "key": "has_unlimited_entitlement",
            "value": "False"
          },
          {
            "key": "e",
            "value": "2370896,2370896,2371047,23712994,23713711,23715480,23716257,23716663,23716986,23717456,23719518,23719525,2372123726508,23727146,23727420,23728291,23728740,3300116,330013942652,9471239,9474357,9475643,9485000,9486759"
          }
        ],
        "context": "yt_web_kevlar_watch"
      }
    ],
    "logged_in": "1"
  },
  "service": "SI",
  "params": [
    {
      "key": "ver",
      "value": "2.20180227"
    },
    {
      "key": "WEB",
      "value": "2.20180227"
    }
  ],
  "client.version": "2.20180227"
}
  
```

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 code editor window after the code has been formatted. The JSON structure is now properly indented and color-coded. The code editor interface includes a sidebar on the right and a status bar at the bottom indicating the current line (9443), column (98), selection count (423835), and file encoding (UTF-8).

```

{
  "responseContext": {
    "serviceTrackingParams": [
      {
        "service": "GFEEDBACK",
        "params": [
          {
            "key": "has_unlimited_entitlement",
            "value": "False"
          },
          {
            "key": "e",
            "value": "2370896,2370896,2371047,23712994,23713711,23715480,23716257,23716663,23716986,23717456,23719518,23719525,2372123726508,23727146,23727420,23728291,23728740,3300116,330013942652,9471239,9474357,9475643,9485000,9486759"
          }
        ],
        "context": "yt_web_kevlar_watch"
      }
    ],
    "logged_in": "1"
  },
  "service": "SI",
  "params": [
    {
      "key": "ver",
      "value": "2.20180227"
    },
    {
      "key": "WEB",
      "value": "2.20180227"
    }
  ],
  "client.version": "2.20180227"
}
  
```

然后可以方便的查看（搜索到的）内容：

The screenshot shows the code editor with a search result panel open. The search term 'watch' has been found once in the code. The search results panel shows the line number (9917), the URL ('/watch?v=jchClt3DNxq\u0026list=PLH0R8x-IicVJDAmJWZmJ-IMu1x3lTAld5\u0026index=12'), and the page type ('WEB_PAGE_TYPE_WATCH'). The main code area shows the JSON structure with the 'watch' key highlighted.

```

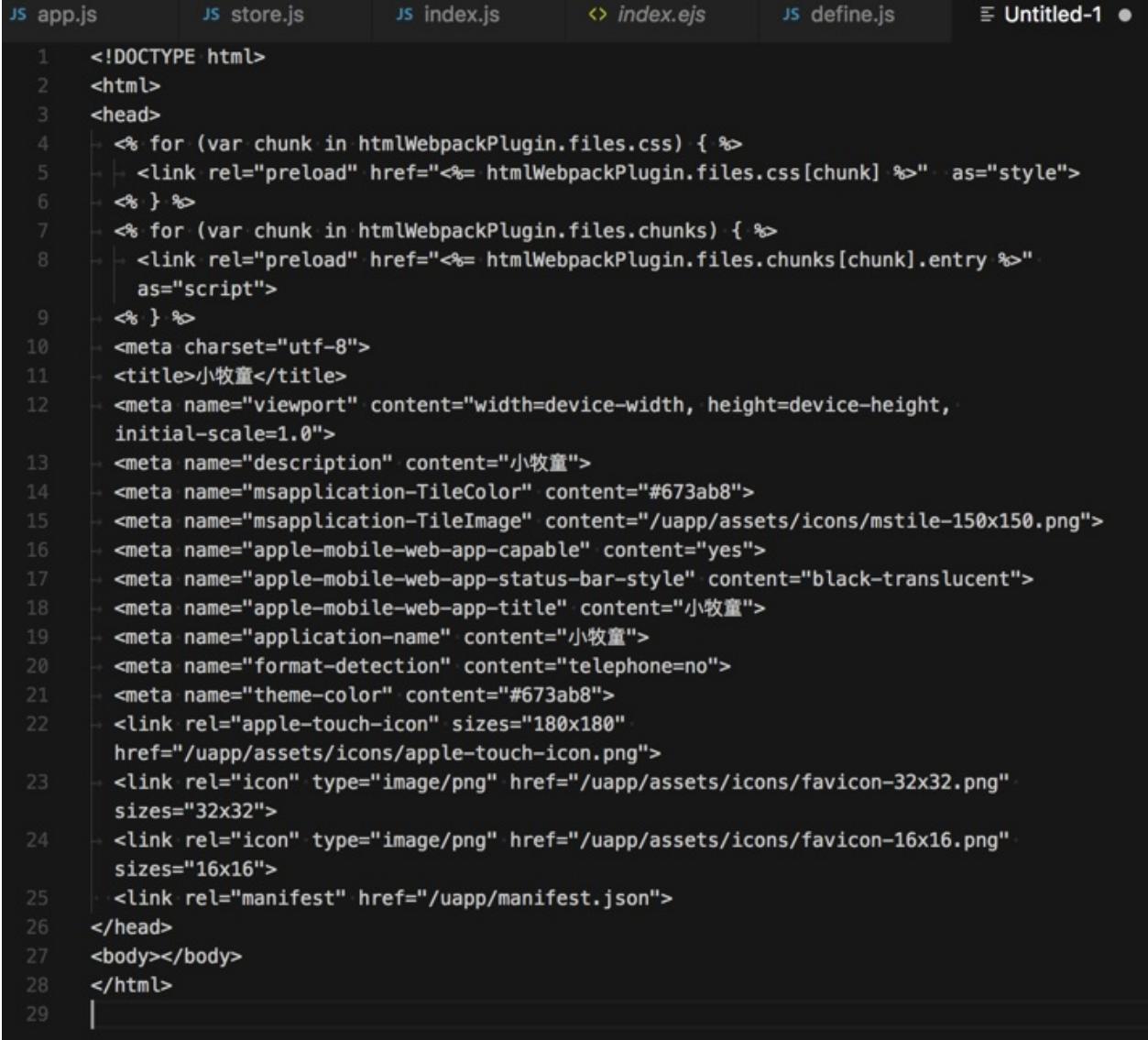
{
  "responseContext": {
    "serviceTrackingParams": [
      {
        "service": "GFEEDBACK",
        "params": [
          {
            "key": "has_unlimited_entitlement",
            "value": "False"
          },
          {
            "key": "e",
            "value": "2370896,2370896,2371047,23712994,23713711,23715480,23716257,23716663,23716986,23717456,23719518,23719525,2372123726508,23727146,23727420,23728291,23728740,3300116,330013942652,9471239,9474357,9475643,9485000,9486759"
          }
        ],
        "context": "yt_web_kevlar_watch"
      }
    ],
    "logged_in": "1"
  },
  "service": "SI",
  "params": [
    {
      "key": "ver",
      "value": "2.20180227"
    },
    {
      "key": "WEB",
      "value": "2.20180227"
    }
  ],
  "client.version": "2.20180227"
}
  
```


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

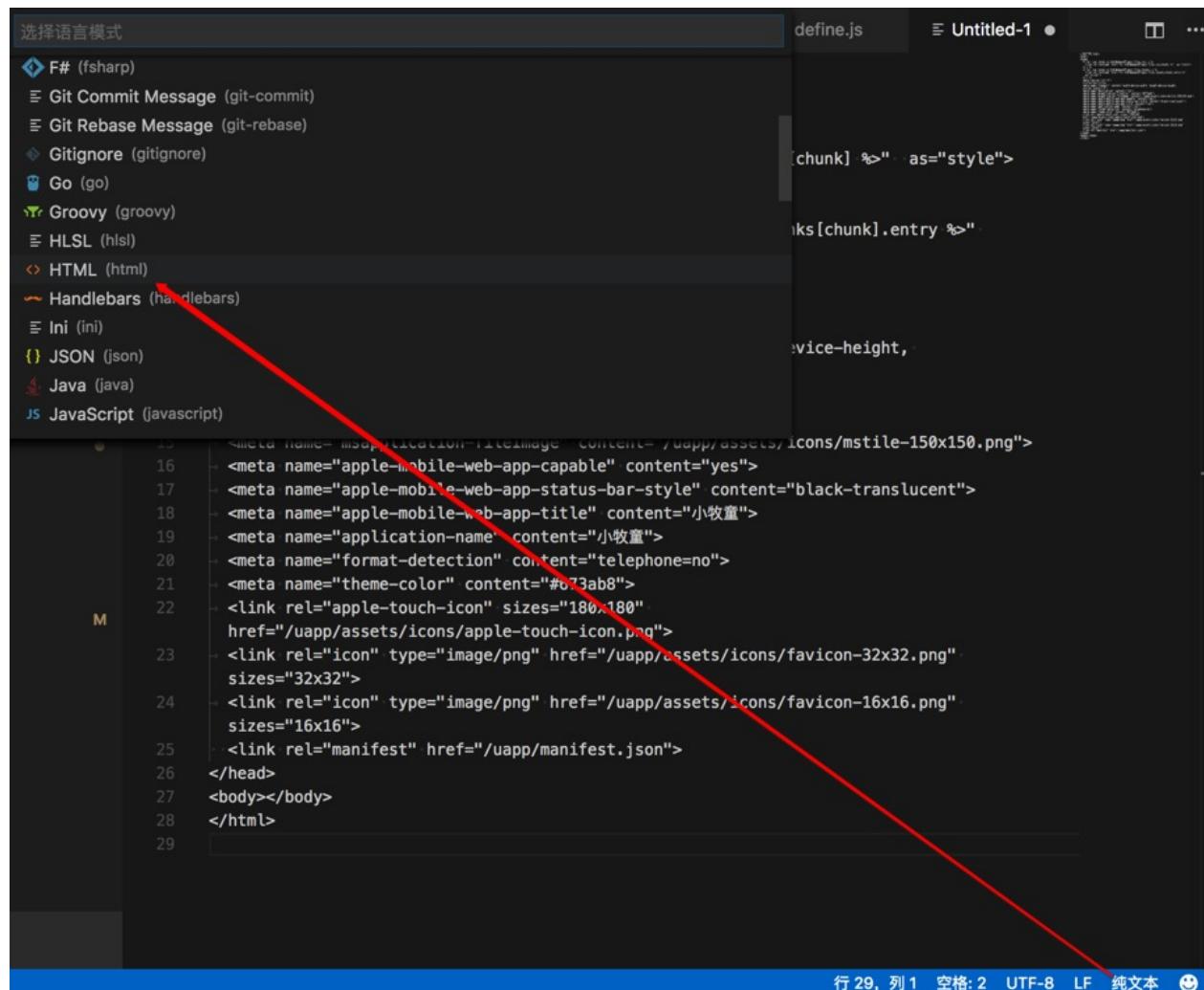


```

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 supported languages. The list includes 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 "HTML (html)" option is selected, indicated by a red arrow pointing from the top-left towards the language list. The main editor area displays an HTML file with line numbers 15 through 29. The HTML code includes meta tags for mobile web app capabilities and favicons, as well as a manifest link. The code is color-coded: tags like <meta> and <link> are in blue, attributes like href and type are in green, and values like "apple-mobile-web-app-capable" and "yes" are in white. The status bar at the bottom right shows "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：

```

apache_error.log — MAMP
[Sun Apr 29 11:27:44 2018] [notice] FastCGI: process manager initialized (pid 25869)
[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 21:57:20 2018] [error] [client ::1] File does not exist: /Users/crifan/dev/dev_root/crif
[Fri Jun 22 21:57:20 2018] [error] [client ::1] File does not exist: /Users/crifan/dev/dev_root/crif
unknown: fatal: file /etc/postfix/main.cf: parameter mail_owner: user postfix has same user ID as _p
[Fri Jun 22 22:12:15 2018] [error] [client ::1] File does not exist: /Applications/MAMP/bin/mamp/far
[Fri Jun 22 22:18:50 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 22:25:58 2018] [error] [client ::1] client denied by server configuration: /Users/crifan
[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 20:53:51 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：

```

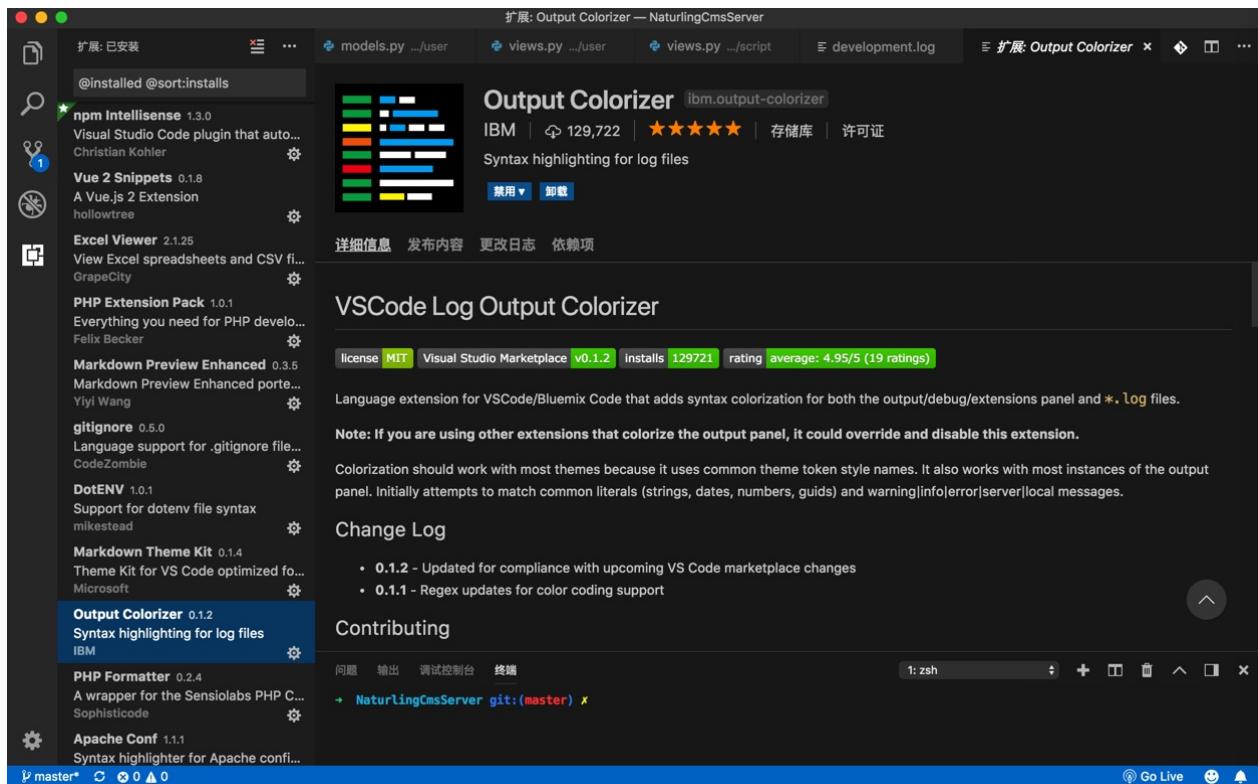
development.log — NaturlingCmsServer
 README.md settings.py development.log jwt.py Untitled-2
 DEBUG 2018-07-09 15:17:28,015 utils 9314 123145337683968 (0.001) SET SESSION TRANSACTION ISOLATION LEVEL
 DEBUG 2018-07-09 15:17:28,017 utils 9314 123145337683968 (0.002) SELECT `user_user`.`password`, `user_use
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/enc
    chunks = self.ite
  File "/usr/local/Cellar/python/3.6.4_4/Frameworks/Python.framework/Versions/3.6/lib/python3.6/json/enc
    return _ite
  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/enc
    o._class___.__name__)
TypeError: Object of type 'User' is not JSON serializable
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 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     publish_status = SerializerMethodField()
...
  
```


文件编码

支持文件编码格式自动检测

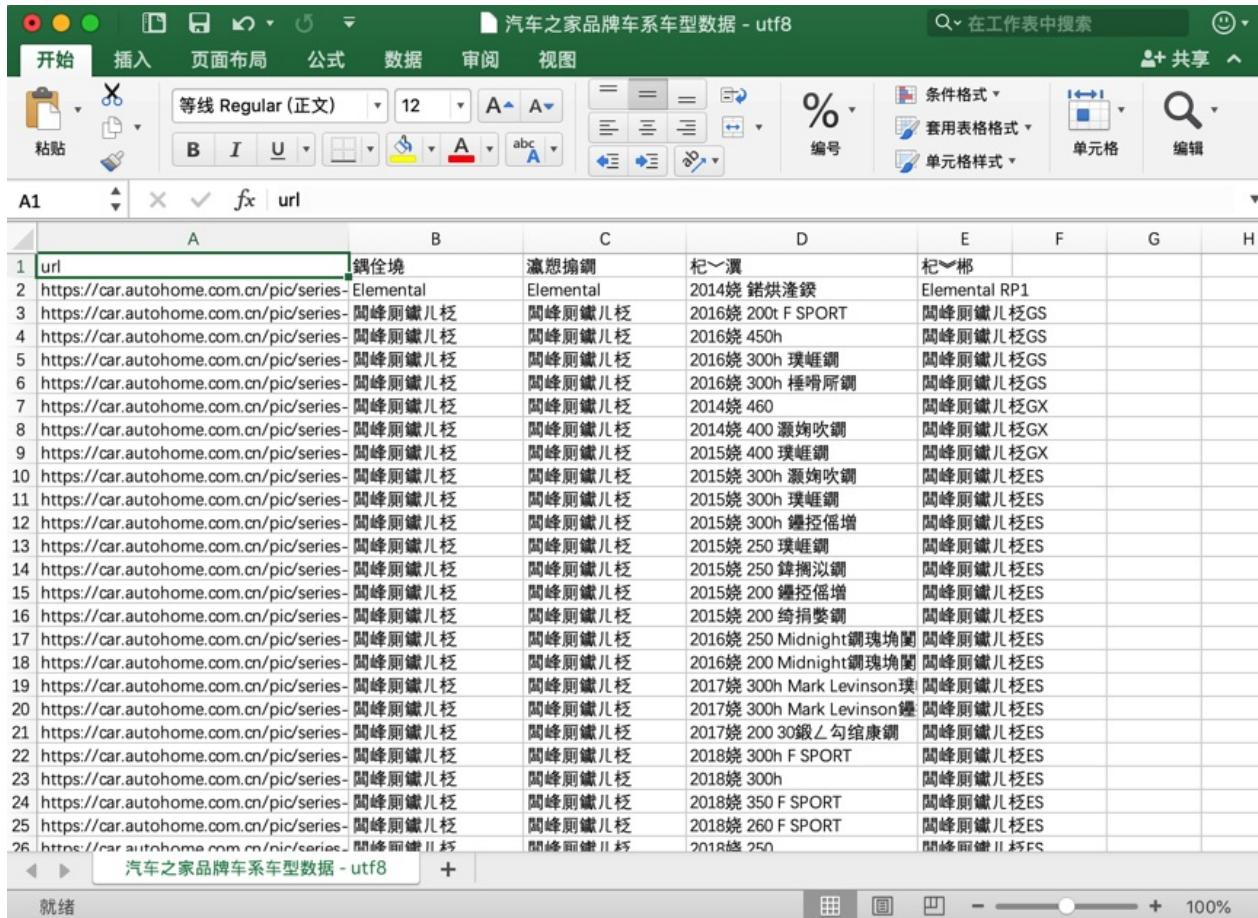
且可以更改编码重新保存。

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：



	A	B	C	D	E	F	G	H
1	url	鋼佺境	瀛懶揜調	杞～灝	杞～郴			
2	https://car.autohome.com.cn/pic/series-Elemental	Elemental	2014燒 錸烘滻鍛	Elemental RP1				
3	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2016燒 200t F SPORT	閬峰廡鐵兒枝GS				
4	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2016燒 450h	閬峰廡鐵兒枝GS				
5	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2016燒 300h 瑪唯調	閬峰廡鐵兒枝GS				
6	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2016燒 300h 榛喟所調	閬峰廡鐵兒枝GS				
7	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2014燒 460	閬峰廡鐵兒枝GX				
8	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2014燒 400 瀲姁吹調	閬峰廡鐵兒枝GX				
9	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2015燒 400 瑪唯調	閬峰廡鐵兒枝GX				
10	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2015燒 300h 瀲姁吹調	閬峰廡鐵兒枝ES				
11	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2015燒 300h 瑪唯調	閬峰廡鐵兒枝ES				
12	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2015燒 300h 鏡控偱增	閬峰廡鐵兒枝ES				
13	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2015燒 250 瑪唯調	閬峰廡鐵兒枝ES				
14	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2015燒 250 錄攔以調	閬峰廡鐵兒枝ES				
15	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2015燒 200 鏡控偱增	閬峰廡鐵兒枝ES				
16	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2015燒 200 繕捐整調	閬峰廡鐵兒枝ES				
17	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2016燒 250 Midnight鋼塊尙閬	閬峰廡鐵兒枝ES				
18	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2016燒 200 Midnight鋼塊尙閬	閬峰廡鐵兒枝ES				
19	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2017燒 300h Mark Levinson瑪	閬峰廡鐵兒枝ES				
20	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2017燒 300h Mark Levinson鑑	閬峰廡鐵兒枝ES				
21	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2017燒 200 30鋼∠勾鉤康調	閬峰廡鐵兒枝ES				
22	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2018燒 300t F SPORT	閬峰廡鐵兒枝ES				
23	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2018燒 300h	閬峰廡鐵兒枝ES				
24	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2018燒 350 F SPORT	閬峰廡鐵兒枝ES				
25	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2018燒 260 F SPORT	閬峰廡鐵兒枝ES				
26	https://car.autohome.com.cn/pic/series-閬峰廡鐵兒枝	閬峰廡鐵兒枝	2018燒 250	閬峰廡鐵兒枝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
Save with Encoding

Save with Encoding

https://car.autohome.com.cn/pic/series-s16768/112.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2014款 200t F Si
https://car.autohome.com.cn/pic/series-s17019/112.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2014款 450h,雷克
https://car.autohome.com.cn/pic/series-s25071/112.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2015款 300h 豪华
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
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
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
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
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
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
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
https://car.autohome.com.cn/pic/series-s24897/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2016款 250 Midn
https://car.autohome.com.cn/pic/series-s24892/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2016款 200 Midn
https://car.autohome.com.cn/pic/series-s31975/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2017款 300h Mar
https://car.autohome.com.cn/pic/series-s31976/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2017款 300h Mar
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
https://car.autohome.com.cn/pic/series-s31545/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2018款 300h F Si
https://car.autohome.com.cn/pic/series-s34238/403.html#pvareaid=2042220,雷克萨斯,雷克萨斯,2018款 300h,雷克
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
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
https://car.autohome.com.cn/pic/series-s34543/403.html#nvareaid=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
```

1: make

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

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
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 200t 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 300h 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，从而导致搜索不到。

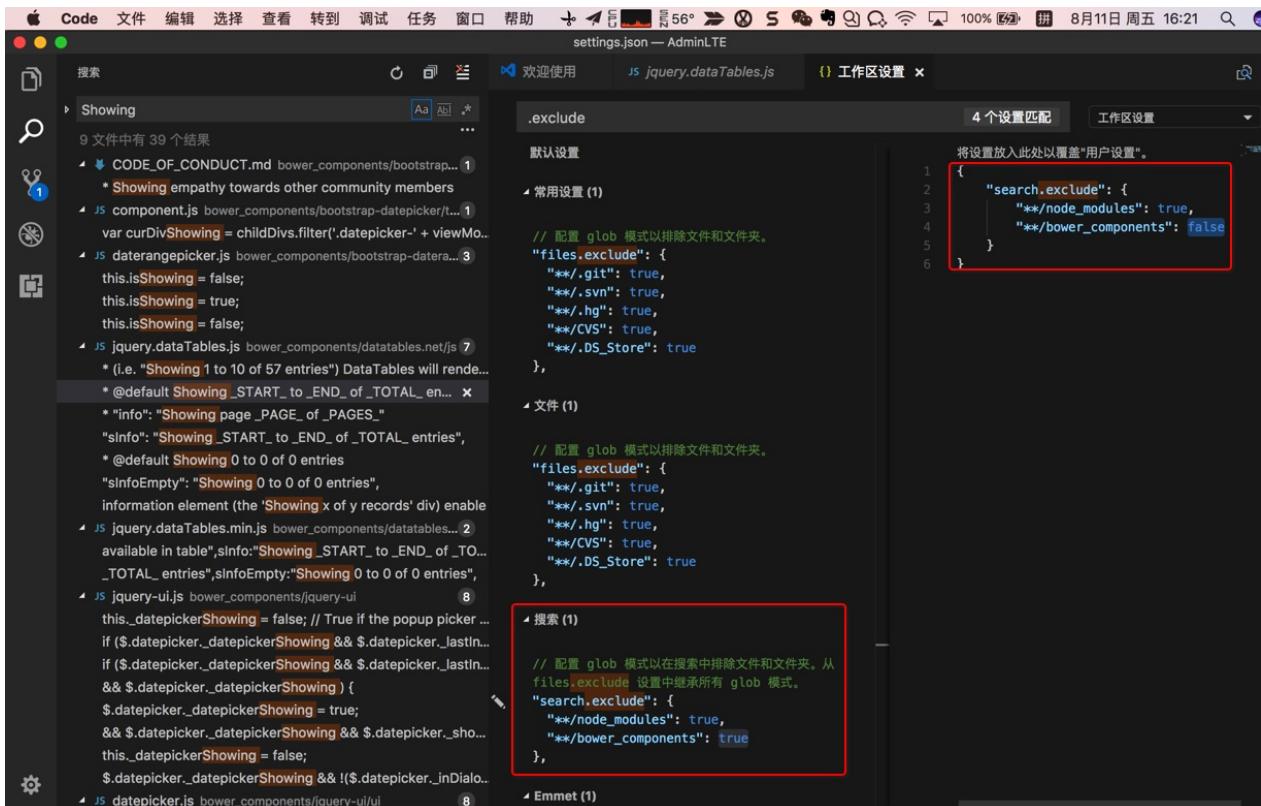
解决办法：

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

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

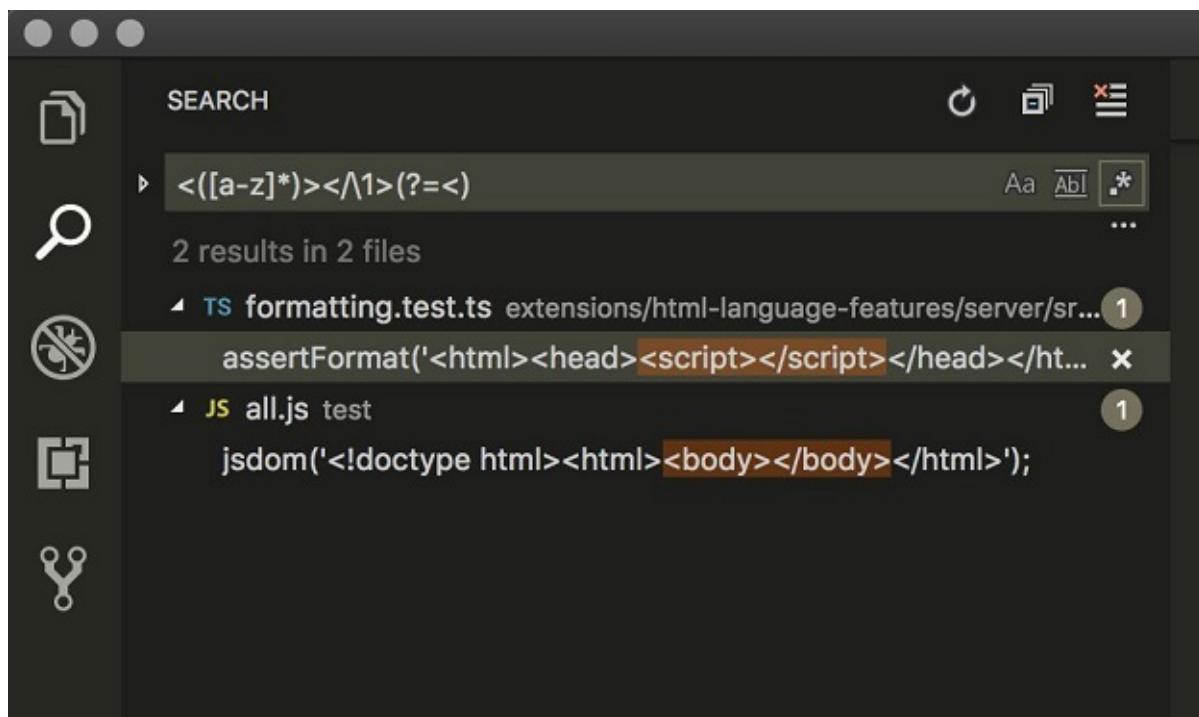
VSCode的搜索中支持正则的高级语法，比如：

- 【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,
```

The screenshot shows a dark-themed text editor window titled "Untitled-1". In the top right corner, there are icons for file operations: a downward arrow, a square, and three dots. The main area displays the following text:

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

Below the text, the status bar shows the regular expression `(\d+)\n`, the case sensitivity setting "Aa", and the current line number "1 / 2". A search bar contains the placeholder `$1,`. To the right of the search bar are two buttons: `fb` and `fab`.

即可替换为：

127,126,127

The screenshot shows the same dark-themed text editor window after performing the replacement. The text now reads:

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

The status bar still shows the regular expression `(\d+)\n`, the case sensitivity setting "Aa", and the message "无结果" (No results). The search bar still contains the placeholder `$1,`. The buttons `fb` and `fab` are also present.

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查找函数定义

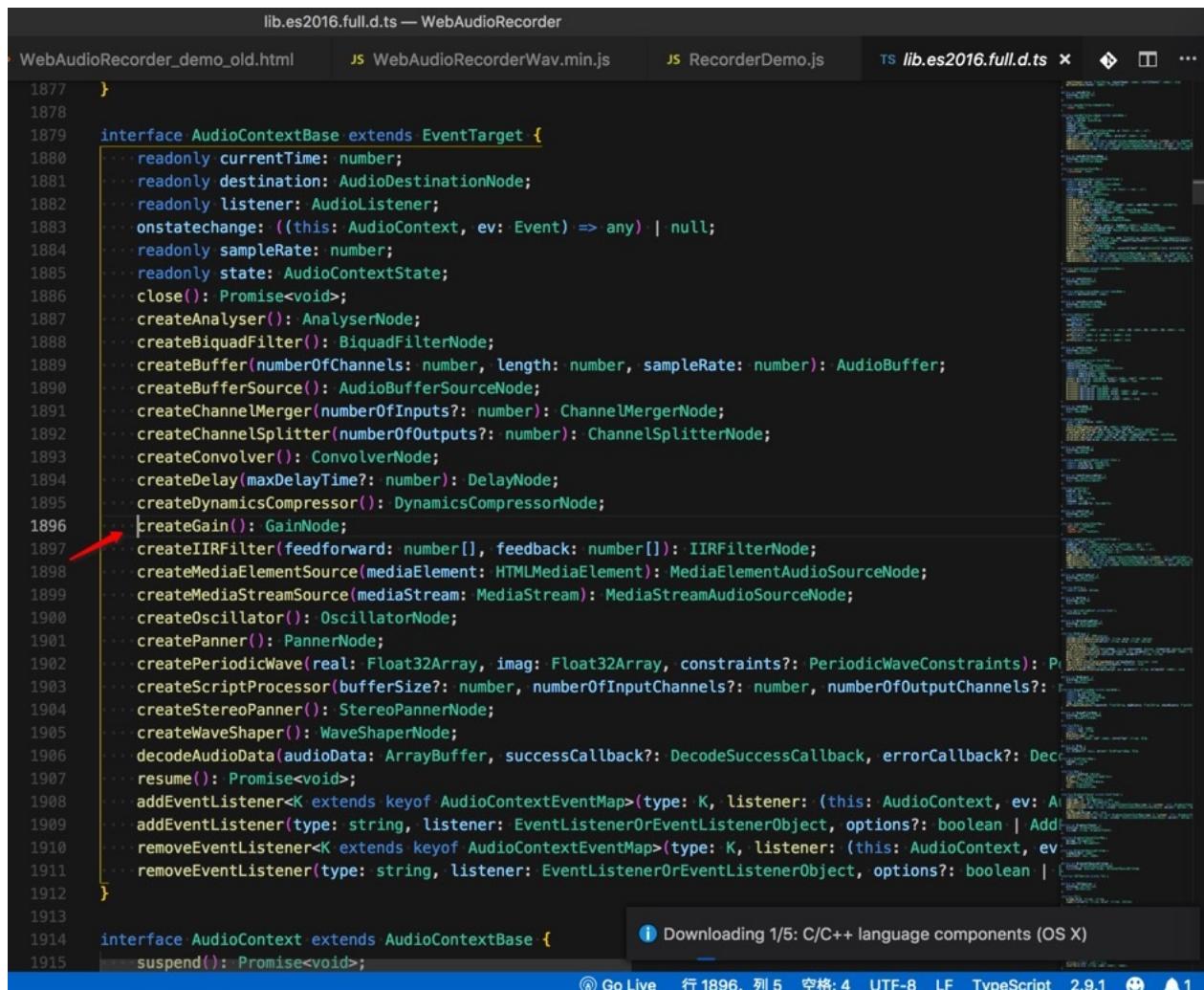
选择某个函数：

RecorderDemo.js — WebAudioRecorder

WebAudioRecorder_demo_old.html JS WebAudioRecorderWav.min.js JS RecorderDemo.js ×

```
94
95     testToneLevel
96     (testTone)-----|>-----+
97     |-----+-----+-----+
98     |-----v-----+
99     |-----+-----+-----+
100    |-----^-----+-----+
101    |-----|-----+-----v-----+
102    |-----microphoneLevel-----+-----|
103    (microphone)-----|>-----+-----+----->(destination)
104
105 */
106 var testToneLevel = audioContext.createGain(),
107     microphone = undefined // obtained by user click
108     microphoneLevel = aud (method) AudioContextBase.createGain(): GainNode
109     mixer = audioContext.createGain();
110 testTone.connect(testToneLevel);
111 testToneLevel.gain.value = 0;
112 testToneLevel.connect(mixer);
113 microphoneLevel.gain.value = 0;
114 microphoneLevel.connect(mixer);
115 mixer.connect(audioContext.destination);
116
117 // audio recorder object
118 var audioRecorder = new WebAudioRecorder(mixer, {
119     // workerDir: 'js/',
120     workerDir: 'WebAudioRecorder_demo_old_files/js/'
```

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 × ⚙️ □ ...
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);
1907    resume(): Promise<void>;
1908    addEventListener<K extends keyof AudioContextEventMap>(type: K, listener: (this: AudioContext, ev: AudioContextEvent) => void, options?: AddEventListenerOptions): 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, options?: RemoveEventListenerOptions): void;
1911    removeEventListener(type: string, listener: EventListenerOrEventListenerObject, options?: boolean | RemoveEventListenerOptions): void;
1912  }
1913
1914  interface AudioContext extends AudioContextBase {
1915    suspend(): Promise<void>;

```

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

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

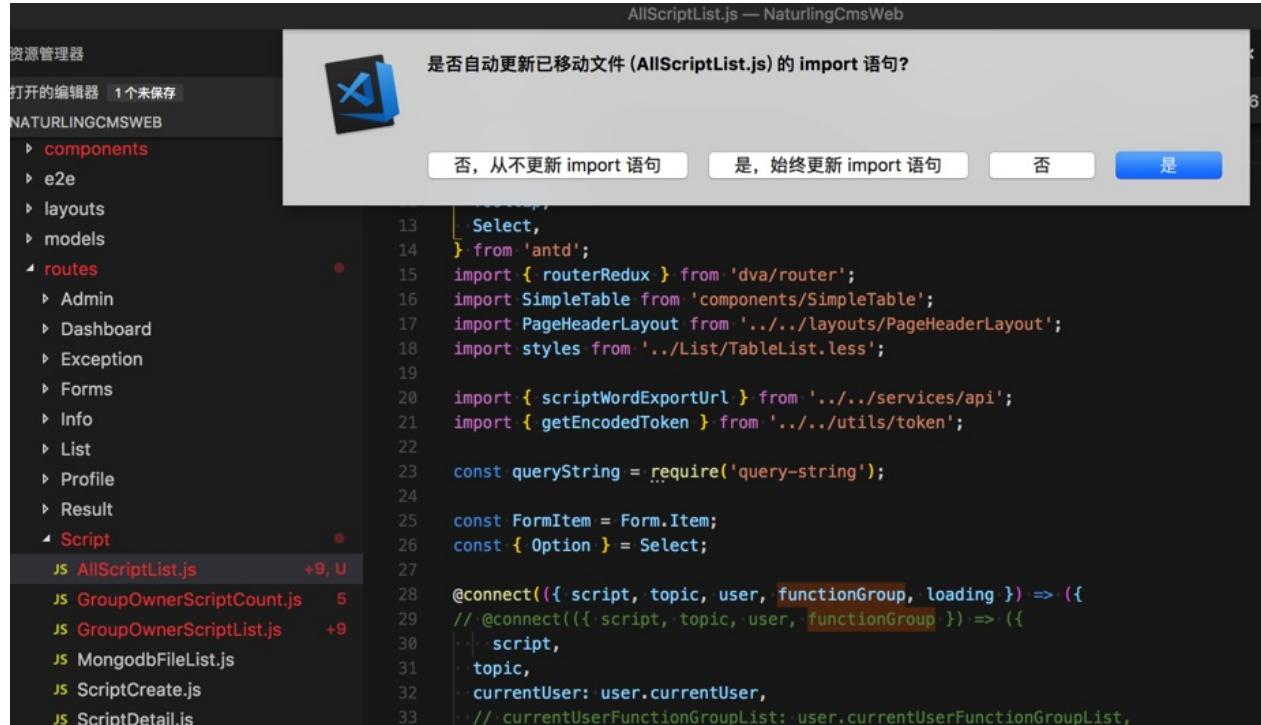
效果不错。

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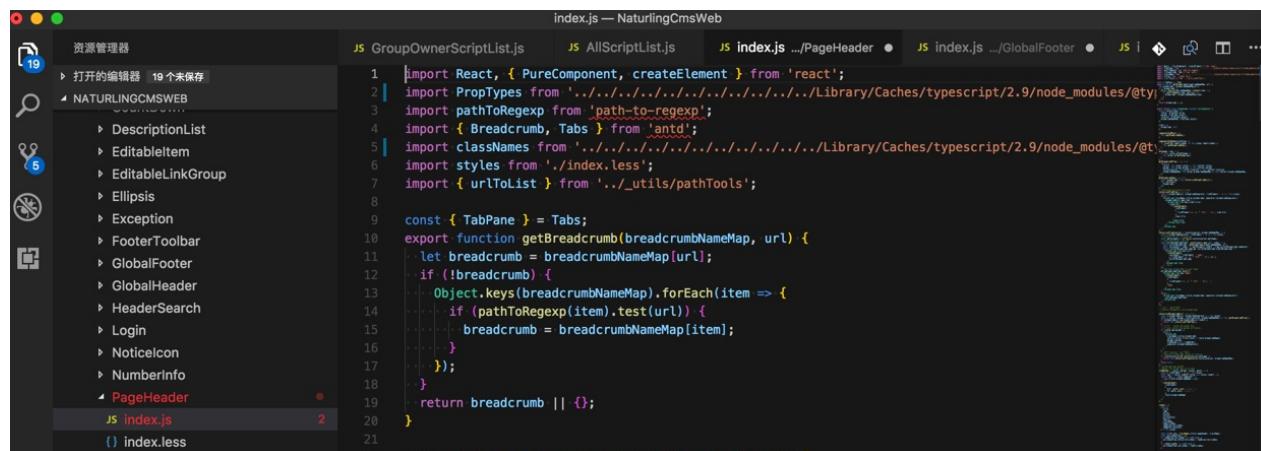
VSCode的智能好用之处

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



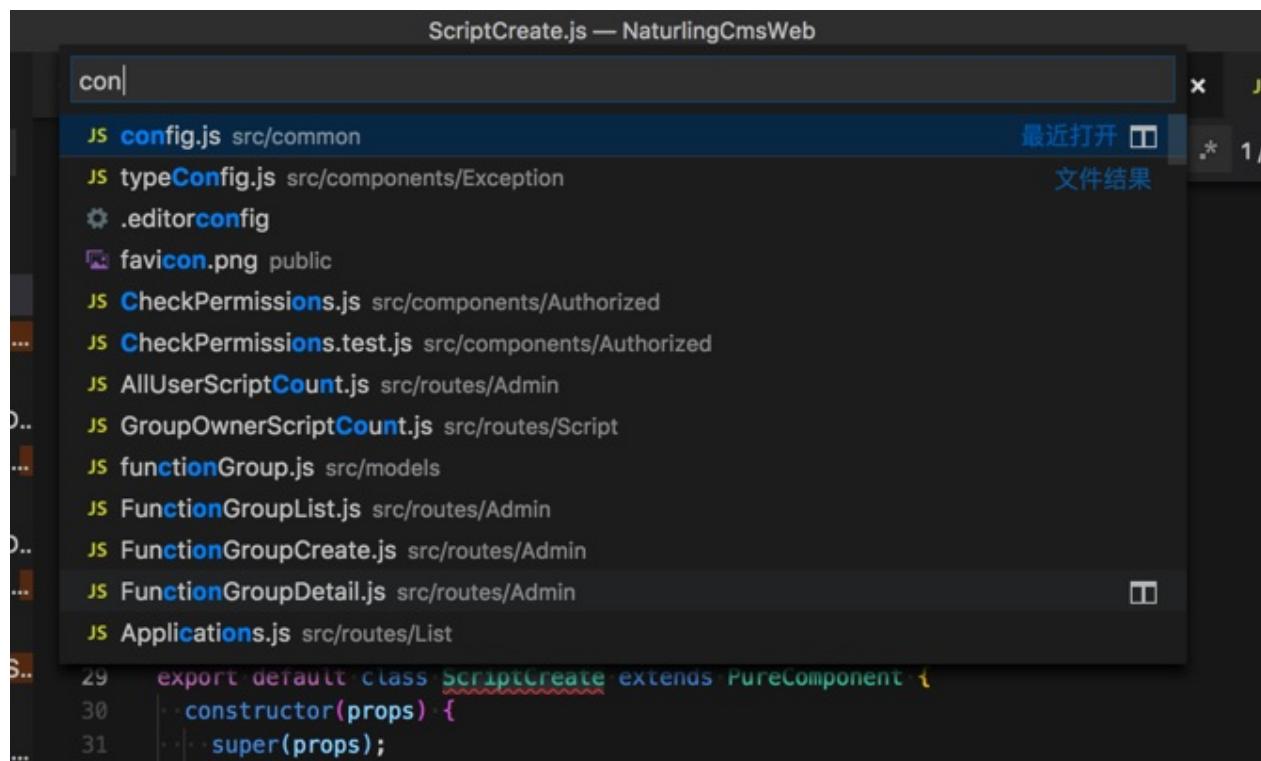
即可自动更新import语句：



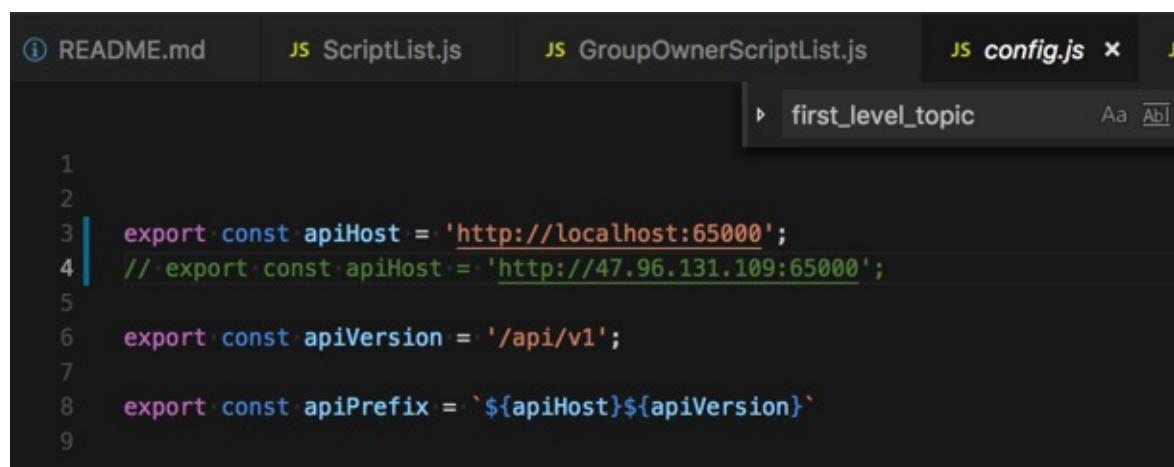
不过，此处更新后的內容不是我要的，竟然把本来正常的都改错误了，所以还要自己去改回来。以后慎用这个自动修改import的功能。

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

```

The screenshot shows the VSCode interface with the 'development.log' file open. The code editor displays a stack trace from Django's exception handling. A red box highlights the line 'y/naturling/projects/NaturlingCms/server/NaturlingCmsServer/apps/script/views.py' at line 136, indicating where the error occurred.

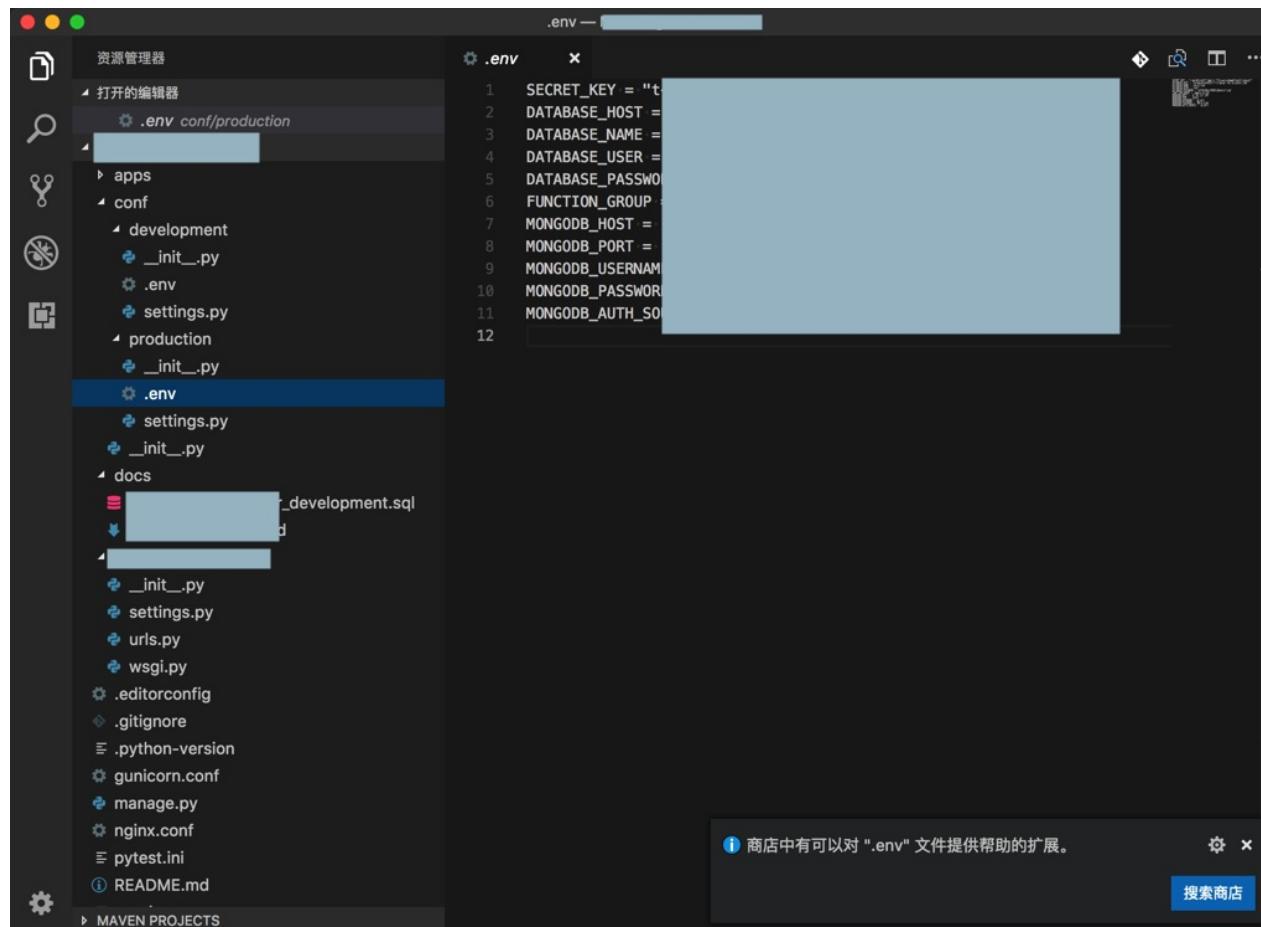
可以跳转到对应的文件:

The screenshot shows the VSCode interface with the 'views.py' file open. The code editor displays the script creation logic. A red box highlights the line 'y/naturling/projects/NaturlingCms/server/NaturlingCmsServer/apps/script/views.py' at line 136, which corresponds to the error in the log.

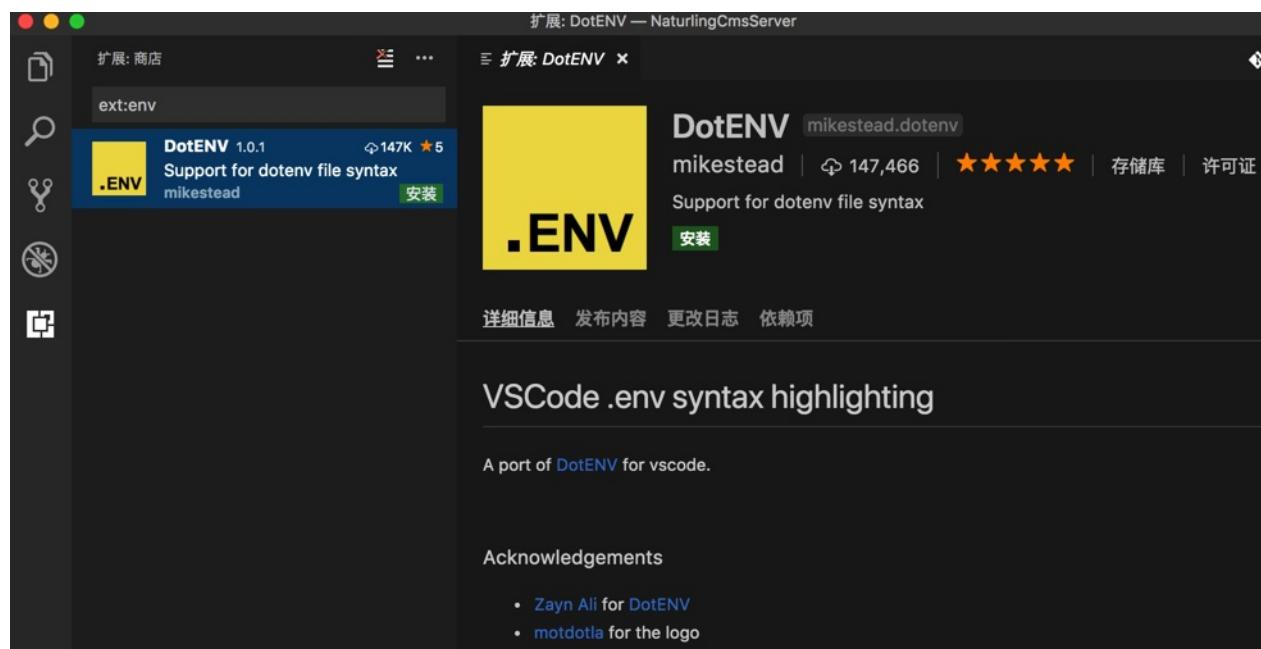
方便调试。

提示安装支持相应文件的插件

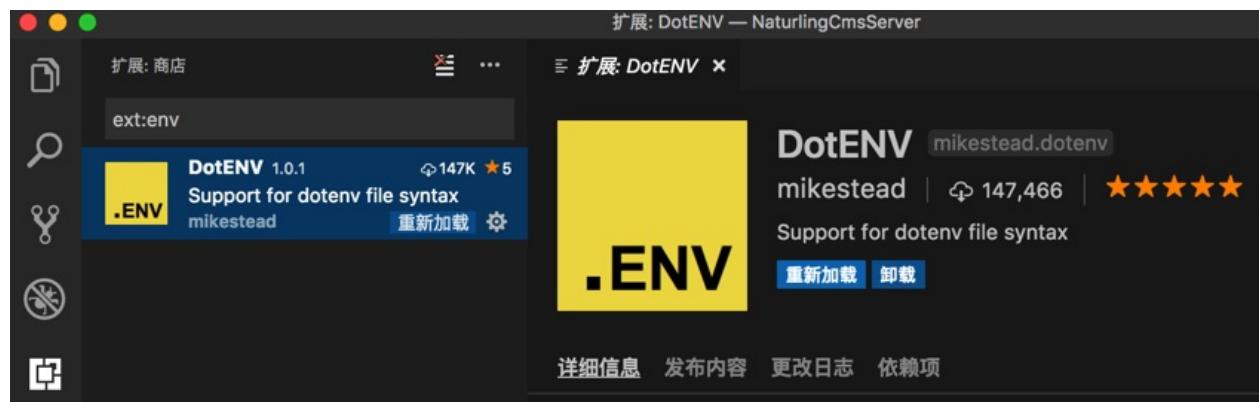
首次打开 .env，则提示是否要安装.env的插件，点击 搜索商店：



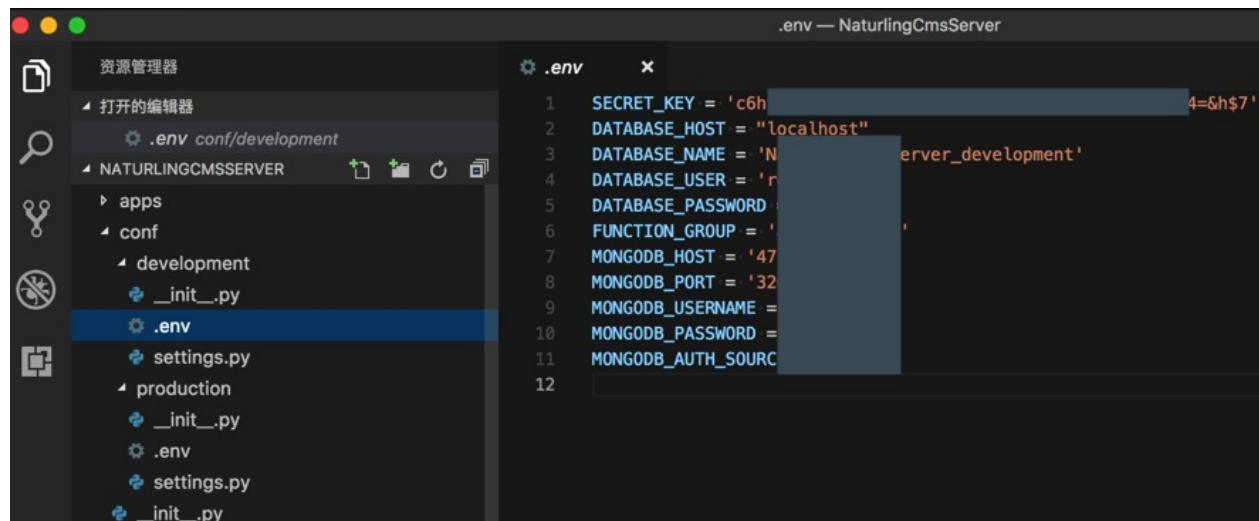
然后点击安装插件：



安装后，重启加载：

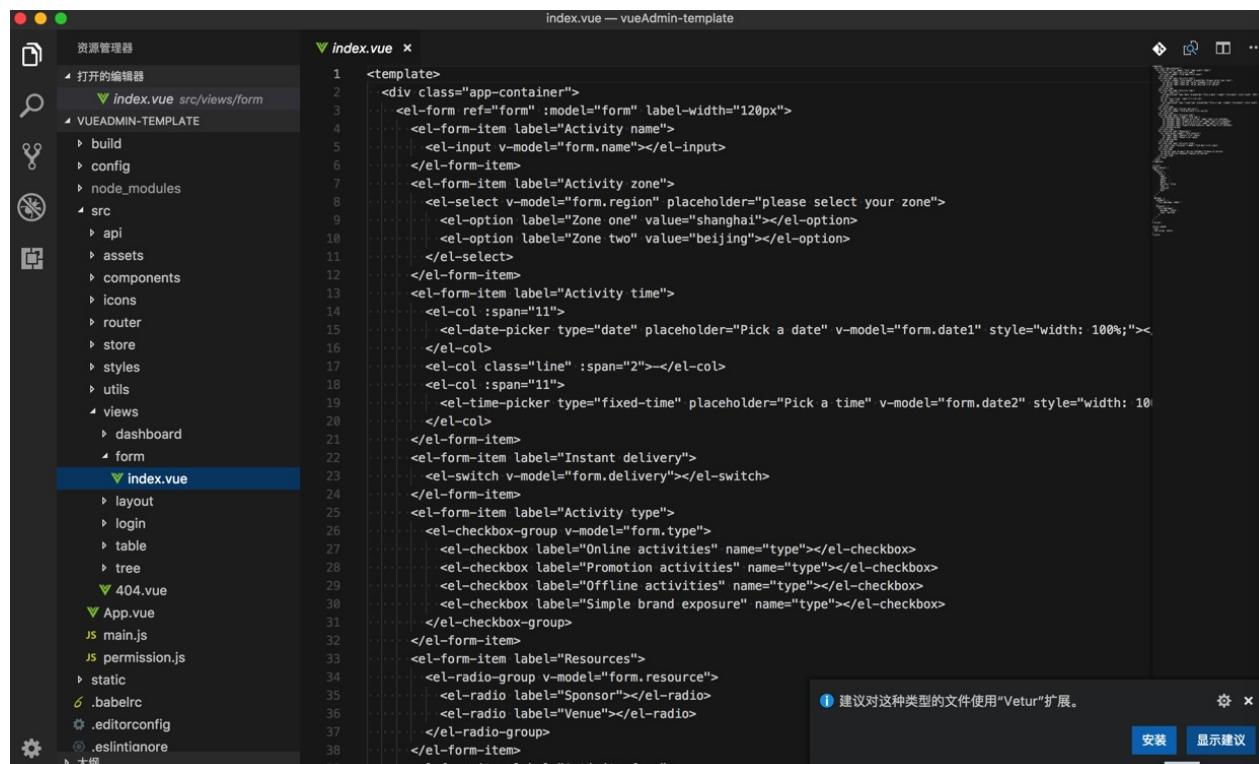


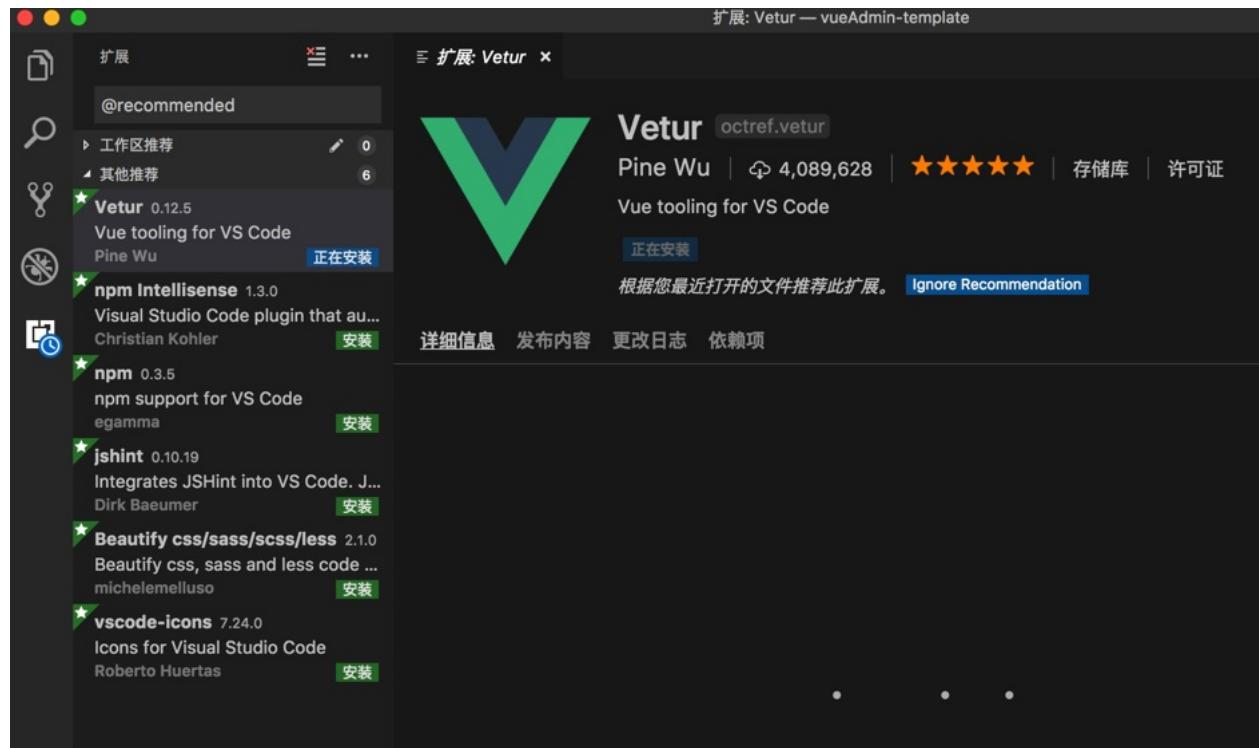
然后.env就可以语法高亮了：



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 a split-screen view of a file explorer on the left and a code editor on the right. The file explorer lists several files and folders, including 'img', 'logo_transparent_183x160.png', 'js' (containing 'bootstrap-3.3.1', 'bootstrap-4.1.0', 'jquery', 'MediaStreamRecorder', 'popper-1.14.0', 'WebAudioRecorder', 'WavAudioEncoder.min.js', 'WebAudioRecorder.js', 'WebAudioRecorderWav.js', 'bootstrap3_player.js', and 'highlight.js'), 'css', 'fonts', 'img' (containing 'logo_transparent_183x160.png'), 'js' (containing 'bootstrap-3.3.1', 'bootstrap-4.1.0', 'jquery', 'MediaStreamRecorder', 'popper-1.14.0', 'WebAudioRecorder', 'WavAudioEncoder.min.js', 'WebAudioRecorder.js', 'WebAudioRecorderWav.js', 'bootstrap3_player.js', 'highlight.js', 'main.js'), 'media', 'nginx', '.gitignore', 'index.html', and 'README.md'. The code editor displays an HTML file with script tags. In the first instance, the path 'js/WebAudioRecorder/' is typed, and the code completion dropdown shows suggestions for 'WavAudioEncoder.min.js', 'WebAudioRecorder.js', and 'WebAudioRecorderWav.js'. In the second instance, the path 'js/main.' is typed, and the code completion dropdown shows suggestions for 'WavAudioEncoder.min.js', 'WebAudioRecorder.js', and 'WebAudioRecorderWav.js'. The code editor has line numbers from 191 to 208.

```


```

194 <!-- <script src="js/jquery-3.3.1.js"></script> -->
195 <!-- <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js"></script>
196 <script src="js/jquery/1.11.1/jquery-1.11.1.js"></script>
197 <!-- <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzLF23nq2Nf9zvItq9BANdH+QJ02f5dHfgvRrjK2cIu" ></script>
198 <!-- <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.0/umd/popper.min.js" integrity="sha384-Q6E7hVvIKAjvU1j+MzHGfZIj0mJGtLW4k+NC1Xw/Cl+QF37Ugk" ></script>
199 <script src="js/popper-1.14.0/popper.min.js"></script>
200 <!-- <script src="js/bootstrap.js"></script> -->
201 <script src="js/bootstrap-3.3.1/bootstrap.min.js"></script>
202 <script src="js/highlight.js"></script>
203 <script src="js/bootstrap3_player.js"></script>
204 <!-- <script src="js/MediaStreamRecorder/MediaStreamRecorder.min.js"></script> -->
205 <script src="js/w"></script>
206 <script src="js/m WebAudioRecorder/"></script>
207 </body>
208 </html>

191 <!--Optional JavaScript -->
192 <!-- jQuery first, then Popper.js, then Bootstrap JS -->
193 <!-- <script src="js/jquery-3.3.1.js"></script> -->
194 <!-- <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js"></script> -->
195 <script src="js/jquery/1.11.1/jquery-1.11.1.js"></script>
196 <!-- <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzLF23nq2Nf9zvItq9BANdH+QJ02f5dHfgvRrjK2cIu" ></script>
197 <!-- <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.0/umd/popper.min.js" integrity="sha384-Q6E7hVvIKAjvU1j+MzHGfZIj0mJGtLW4k+NC1Xw/Cl+QF37Ugk" ></script>
198 <script src="js/popper-1.14.0/popper.min.js"></script>
199 <!-- <script src="js/bootstrap.js"></script> -->
200 <script src="js/bootstrap-3.3.1/bootstrap.min.js"></script>
201 <script src="js/highlight.js"></script>
202 <script src="js/bootstrap3_player.js"></script>
203 <!-- <script src="js/MediaStreamRecorder/MediaStreamRecorder.min.js"></script> -->
204 <script src="js/WavAudioEncoder.js"></script>
205 <script src="js/main. WavAudioEncoder.min.js"></script>
206 </body>
207 </html>
208 <script src="js/WebAudioRecorder.js"></script>
209 <script src="js/WebAudioRecorderWav.js"></script>

```


```

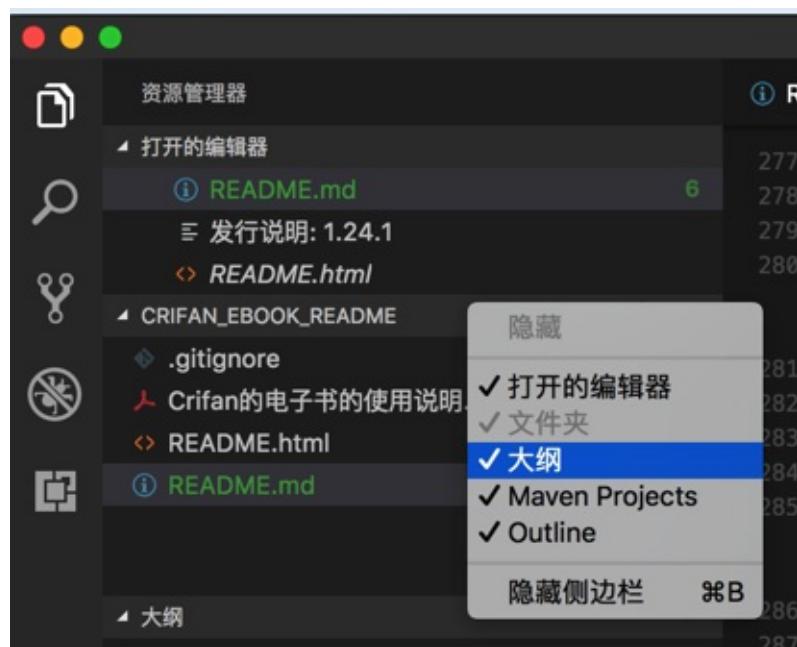
很是智能和贴心。

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

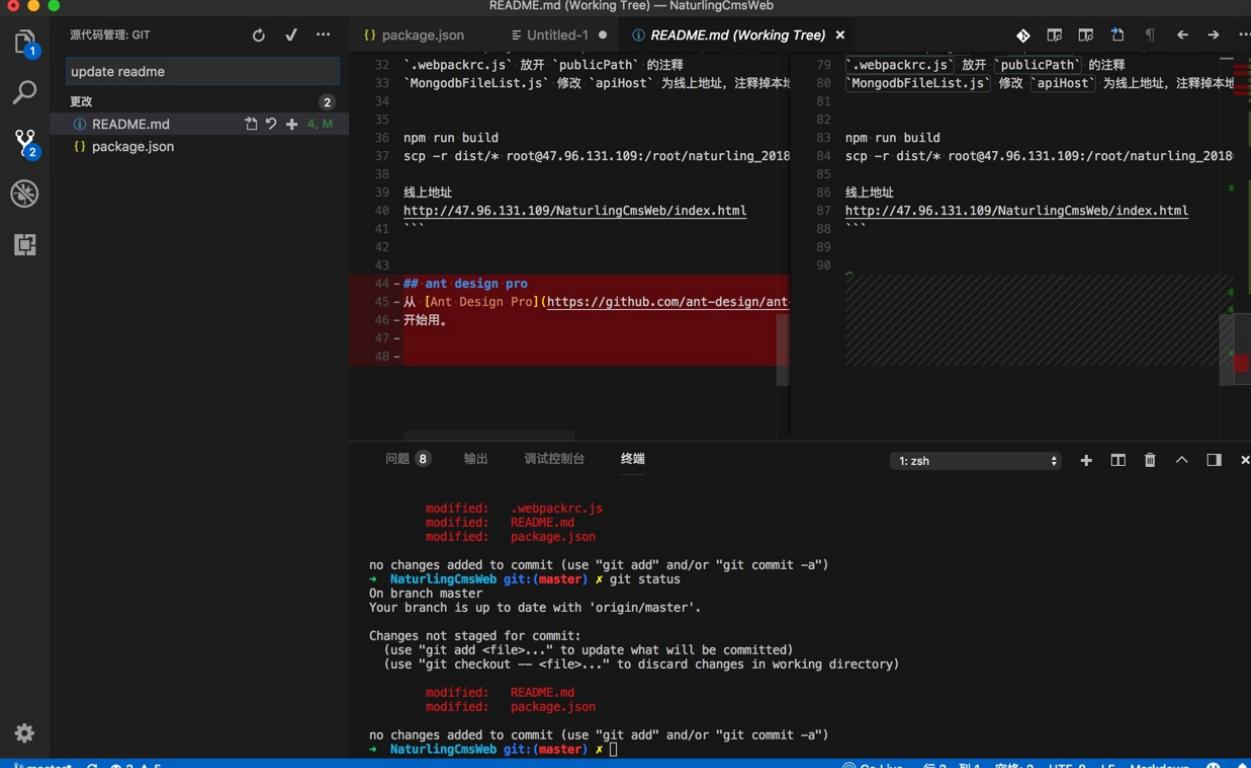
VSCode 1.24版本支持支持自动检测未使用的变量的提示：

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

crifan.org, 使用署名4.0国际(CC BY 4.0)协议发布 all right reserved, powered by Gitbook最后更新：2024-07-27 16:55:58

Git代码管理

VSCode中用git管理代码仓库



The screenshot shows the VSCode interface with the following details:

- Source Control (Git) Panel:** Shows a commit message: "update readme".
- Editor:** Displays the file `README.md` with code related to webpack configuration and deployment.
- Terminal:** Shows the command history and output of the terminal session:

```

modified: .webpackrc.js
modified: README.md
modified: package.json

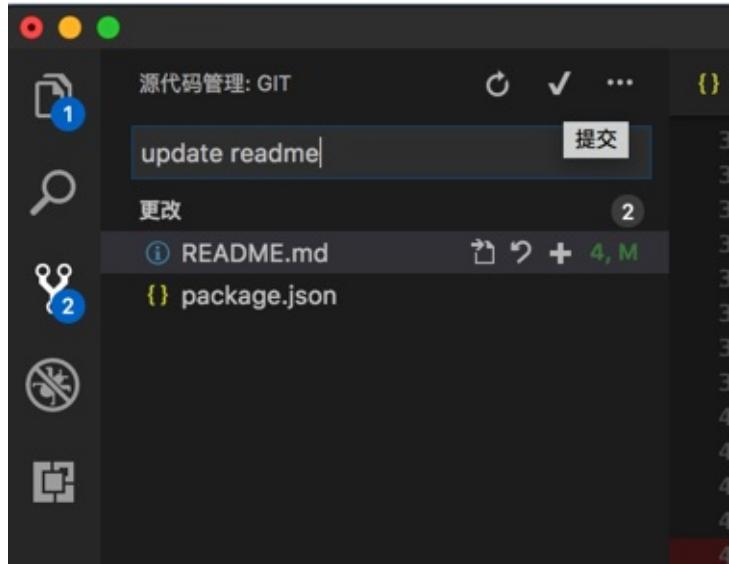
no changes added to commit (use "git add" and/or "git commit -a")
+ NaturlingCmsWeb git:(master) ✘ git status
On branch master
Your branch is up to date with 'origin/master'.

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)

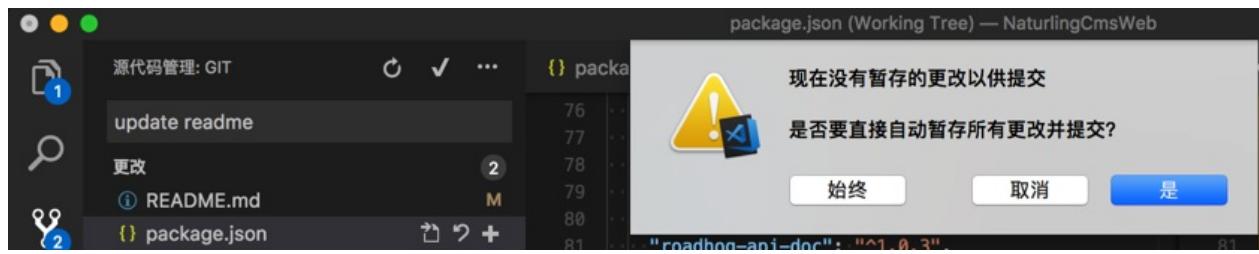
        modified: README.md
        modified: package.json

no changes added to commit (use "git add" and/or "git commit -a")
+ NaturlingCmsWeb git:(master) ✘
  
```

然后尝试用VSCode中的git界面去提交代码：



会有提示：



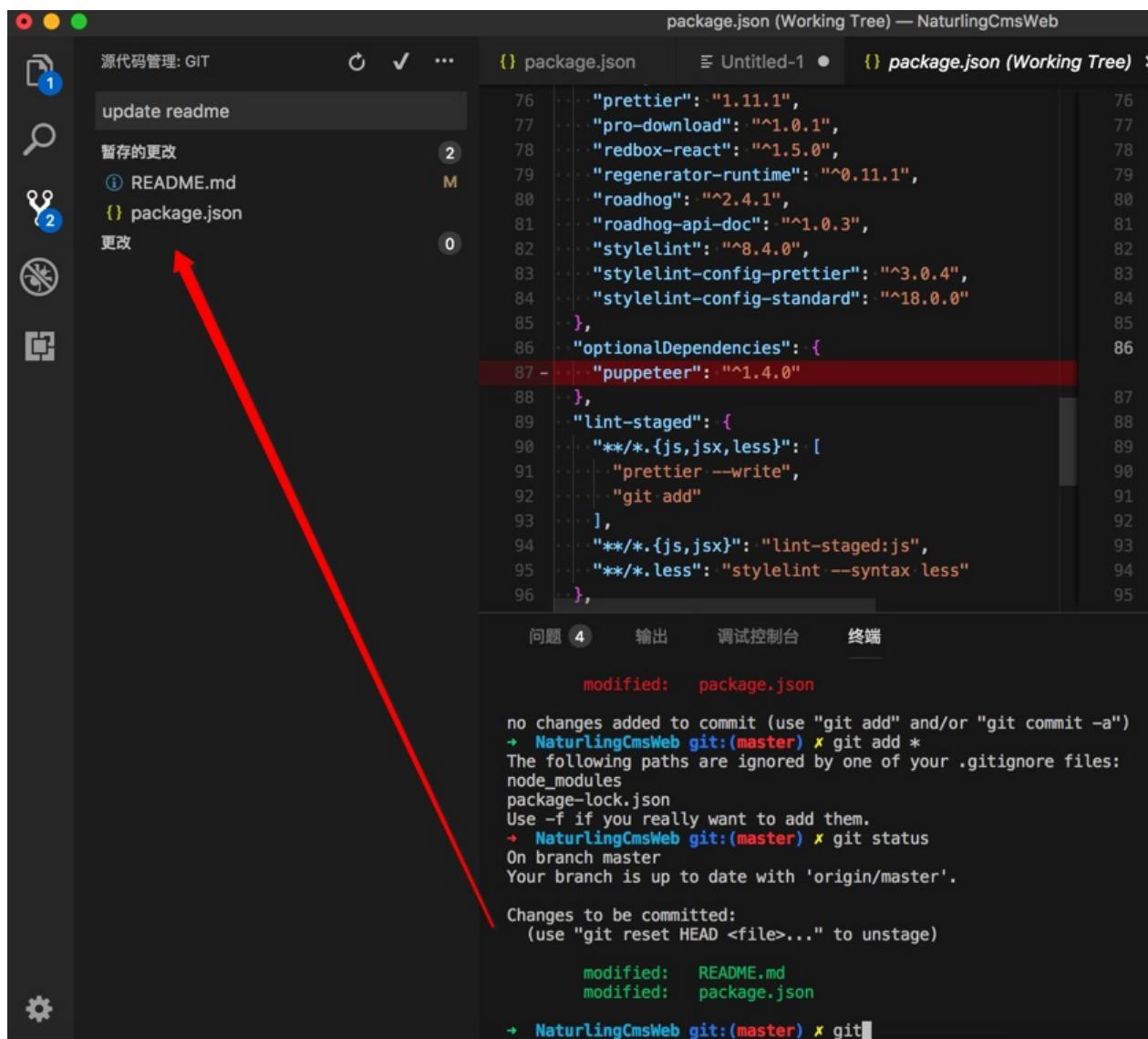
不过去 git add 后:

```
→ 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 31ef1ca] 1. update readme
  2 files changed, 51 insertions(+), 10 deletions(-)
```

```
package.json (Working Tree) — NaturlingCmsWeb
消息 (按 Cmd+Enter 提交)
更改 0
76 ...
77 ...
78 ...
79 ...
80 ...
81 ...
82 ...
83 ...
84 ...
85 ...
86 ...
87 ...
88 ...
89 ...
90 ...
91 ...
92 ...
93 ...
94 ...
95 ...
96 ...

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 31ef1ca] 1. update readme
  2 files changed, 51 insertions(+), 10 deletions(-)
→ NaturlingCmsWeb git:(master) ✘
```

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..31ef1ca  master -> 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 31ef1ca] 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..31ef1ca master -> master
→ NaturlingCmsWeb git:(master) ✘

```

master 31ef1ca 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: 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

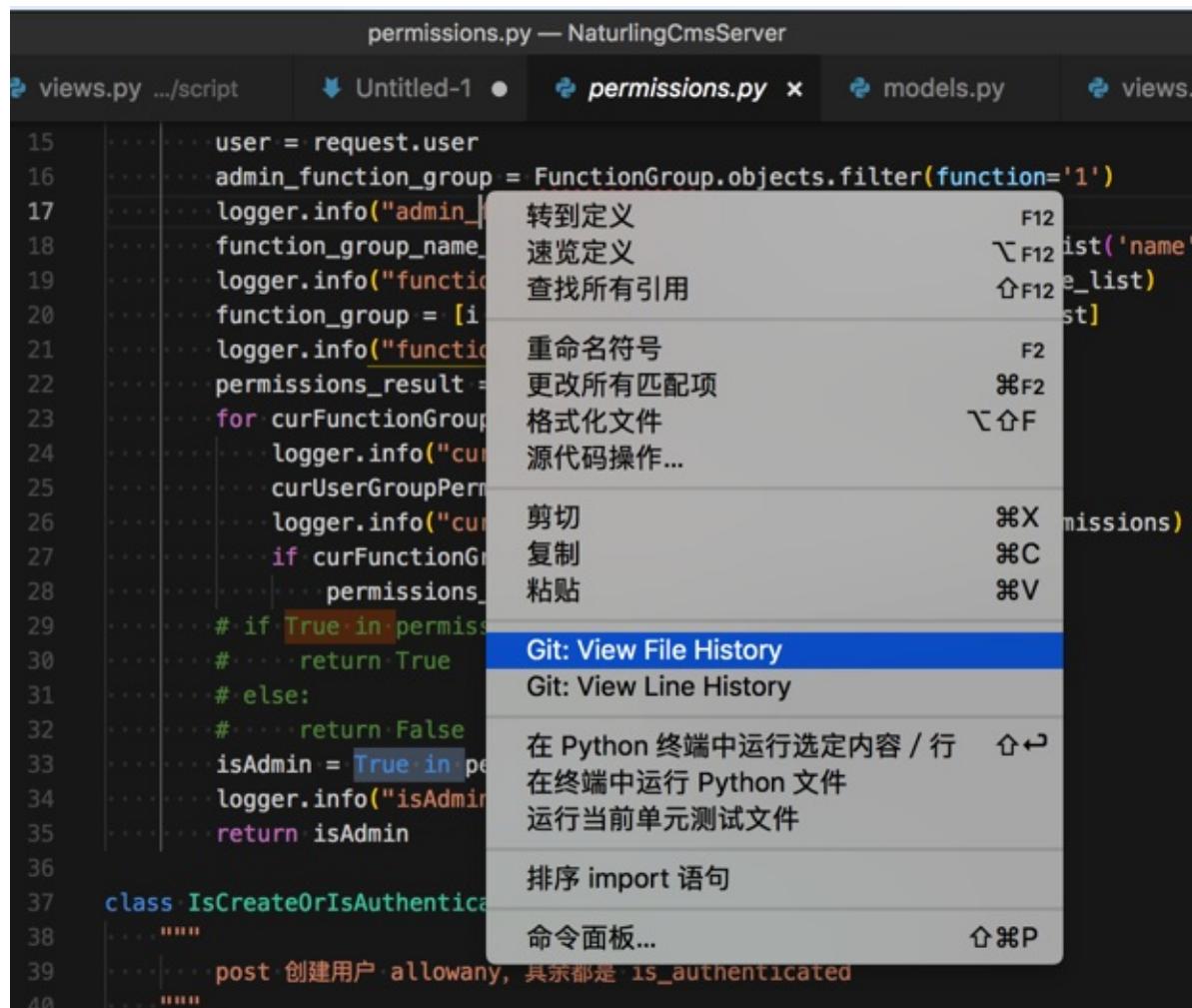

```
# if True in permissions_result:  
isAdmin = True in permission...
```

```

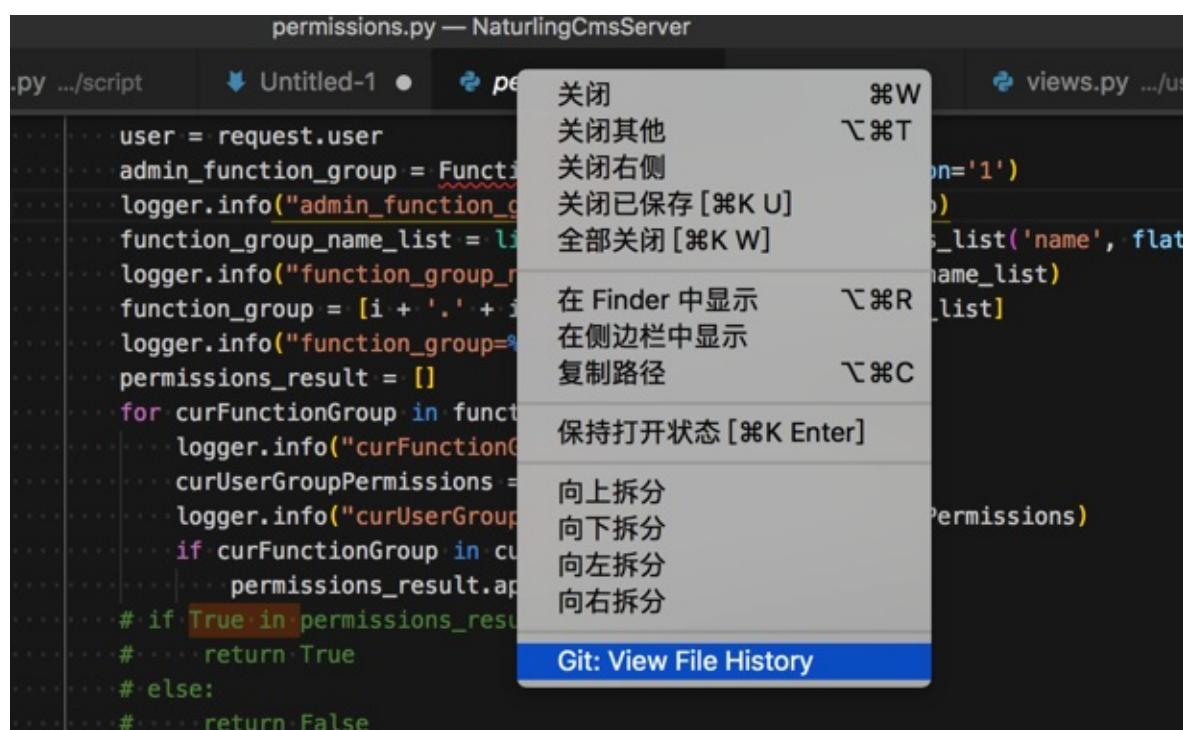
15 user = request.user
16 admin_function_group = FunctionGroup.objects.filter(function='1')
17 logger.info("admin_function_group=%s", admin_function_group)
18 function_group_name_list = list(admin_function_group.values_list('name', flat=True))
19 logger.info("function_group_name_list=%s", function_group_name_list)
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



或Tab页中右键选择：



然后就可以看到各个历史版本了：

File History (permissions.py) — NaturlingCmsServer

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

Search master ▾ All Authors ▾ Clear Refresh

1.fixbug: nex page will error
crifan 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 cros 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5月31日周四 上午10:35 3d3213d

add function_group/members/
on 2018年5月30日周三 下午4:48 8b55d71

update
on 2018年5月29日周二 下午6:31 9bd81c1

update
on 2018年5月29日周二 下午3:47 c17719b

...
Previous Next

点击其中一个版本可以查看提交详情：

File History (permissions.py) — NaturlingCmsServer

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

Search master ▾ All Authors ▾ Clear Refresh

1.fixbug: nex page will error
crifan 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 cros 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
...
Previous Next

update
on 2018年6月22日周五 下午5:43

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

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 ...

Search master All Authors Clear Refresh

1.fixbug: nex page will error rfan 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 cros 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 3d3213d

update on 2018年6月22日周五 下午5:43

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

9 M apps/user/views.py

23 M conf/development/settings.py

51 M conf/production/settings.py

Previous Next

选择: Compare against workspace file

File History (permissions.py) — NaturlingCmsServer

views.py x models.py ...

View file contents

Compare against workspace file (highlighted with a red box)

Compare against previous version

View file history

update on 2018年6月22日周五 下午5:43 c80e4e5

fix get script/script_id/dialogs/ on 2018年6月22日周五 下午4:47 728f68e

add cros header on 2018年6月15日周五 下午3:58 cd5e79d

remove redundant code on 2018年5月31日周四 上午10:57 e229a32

update 3d3213d

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：

```

permissions.py (Working Tree) — NaturlingCmsServer
.../script permissions.py
  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 +     user = request.user
15 -     admin_function_group = FunctionGroup.objects.filter(
16 -         name__in=group_name_list)
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
36

```

```

permissions.py (Working Tree) — NaturlingCmsServer
.../script permissions.py
  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(
12 -            name__in=group_name_list)
13 -        logger.info("admin_function_group=%s", admin_function_group)
14 -        function_group_name_list = list(admin_function_group)
15 -        logger.info("function_group_name_list=%s", function_group_name_list)
16 -        function_group = [i + '.' + i for i in function_group_name_list]
17 -        permissions_result = []
18 +        for i in function_group:
19 +            if i in user.get_group_permissions():
20 +                permissions_result.append(True)
21 +        if True in permissions_result:
22 +            return True
23 +        else:
24 +            return False
25

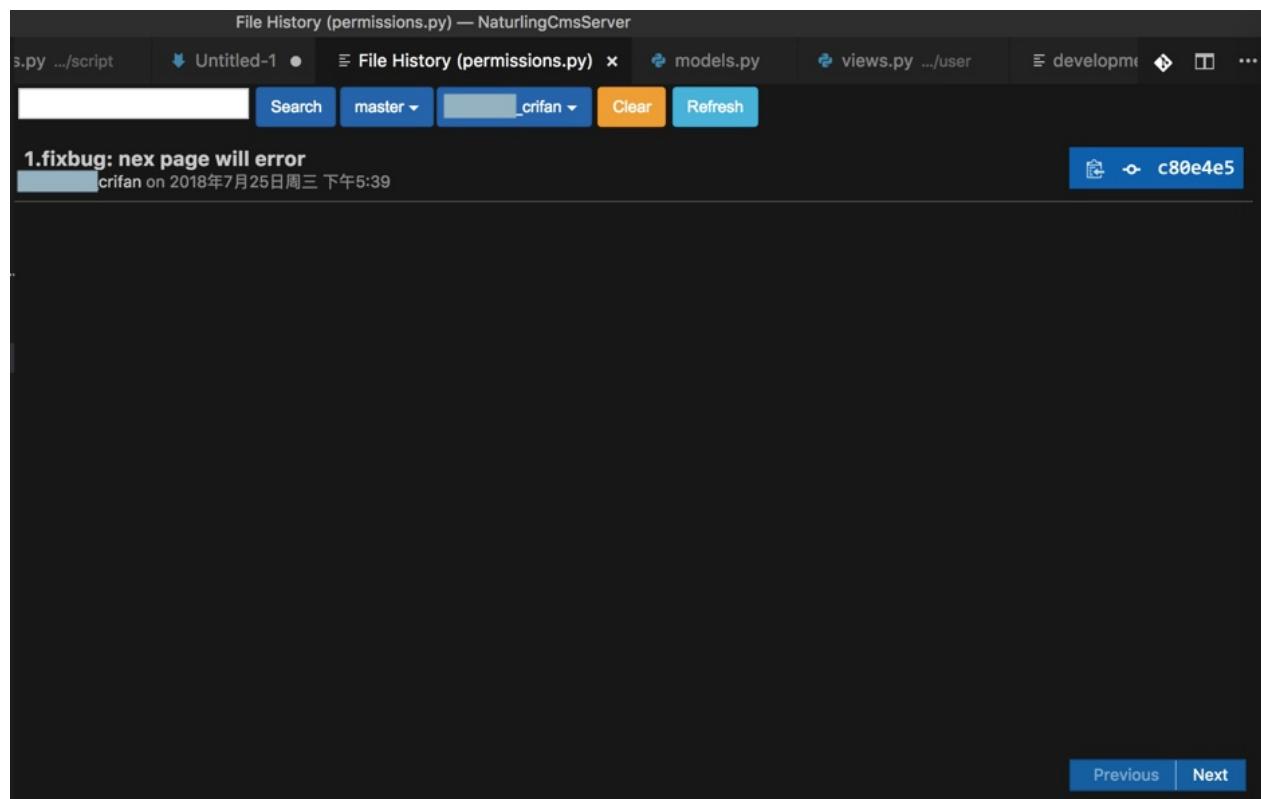
```

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：

Commit Message	Author	Date	Log
1.fixbug: nex page will error	C	2018年7月25日周三 下午5:39	
update	C	2018年6月22日周五 下午5:43	
fix get script/script_id/dialogs/	C	2018年6月22日周五 下午4:47	
add cros header	C	2018年6月15日周五 下午3:58	
remove redundant code	C	2018年5月31日周四 上午10:57	
update	C	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

即可只查看某人的提交的代码：



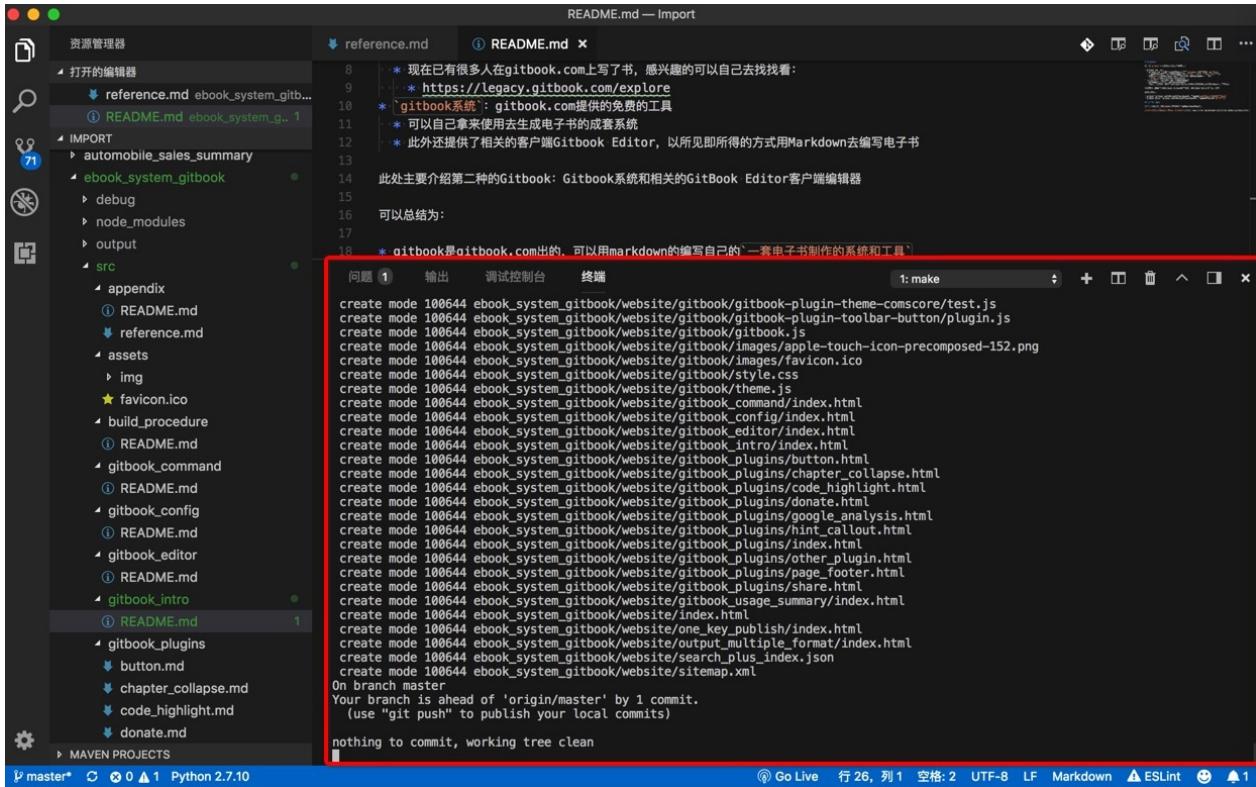
crifan.org, 使用署名4.0国际(CC BY 4.0)协议发布 all right reserved, powered by Gitbook 最后更新: 2024-07-27 16:55:58

集成终端

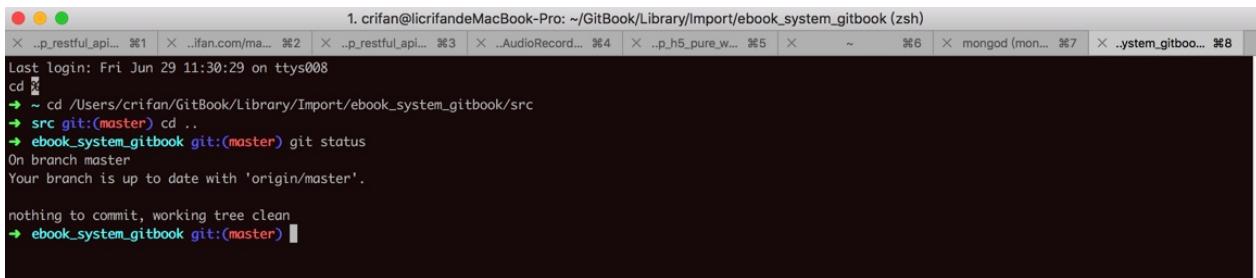
VSCode内置了终端：

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：



直接可以在一个工具界面下，同时处理不同的事情了。

另外一个例子：

The screenshot shows the Visual Studio Code interface with the following details:

- Resource Explorer:** Shows files like `README.md`, `.gitignore`, and `CRIFAN_EBOOK_README`.
- Terminal:** Displays a git commit history for the `master` branch. The commit message is:


```
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) ✘
```
- Status Bar:** Shows the current branch is `master`, and other details like Go Live, Line Count, and Encoding.

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：

The screenshot shows the Visual Studio Code interface with the following details:

- Terminal:** Displays a git commit history for the `NaturlingCmsServer` repository. The commit message is:


```
./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
./manage.py runserver_plus
```
打开 `localhost:8000`
```
- Terminal Tab:** Shows multiple tabs labeled `问题`, `输出`, `调试控制台`, and `终端`.
- Output Tab:** Shows the output of the command `modified: README.md`.
- Terminal Output:** Shows the git commit process and a note from a floating window:
 

**注意事项**

**pip install出错**

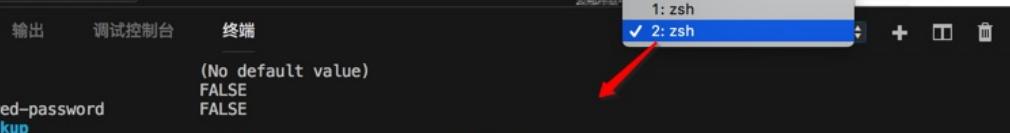
如果 `pip3 install -r`
- Status Bar:** Shows the current line is 128, column 1, and other details like Go Live, Line Count, and Encoding.

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`

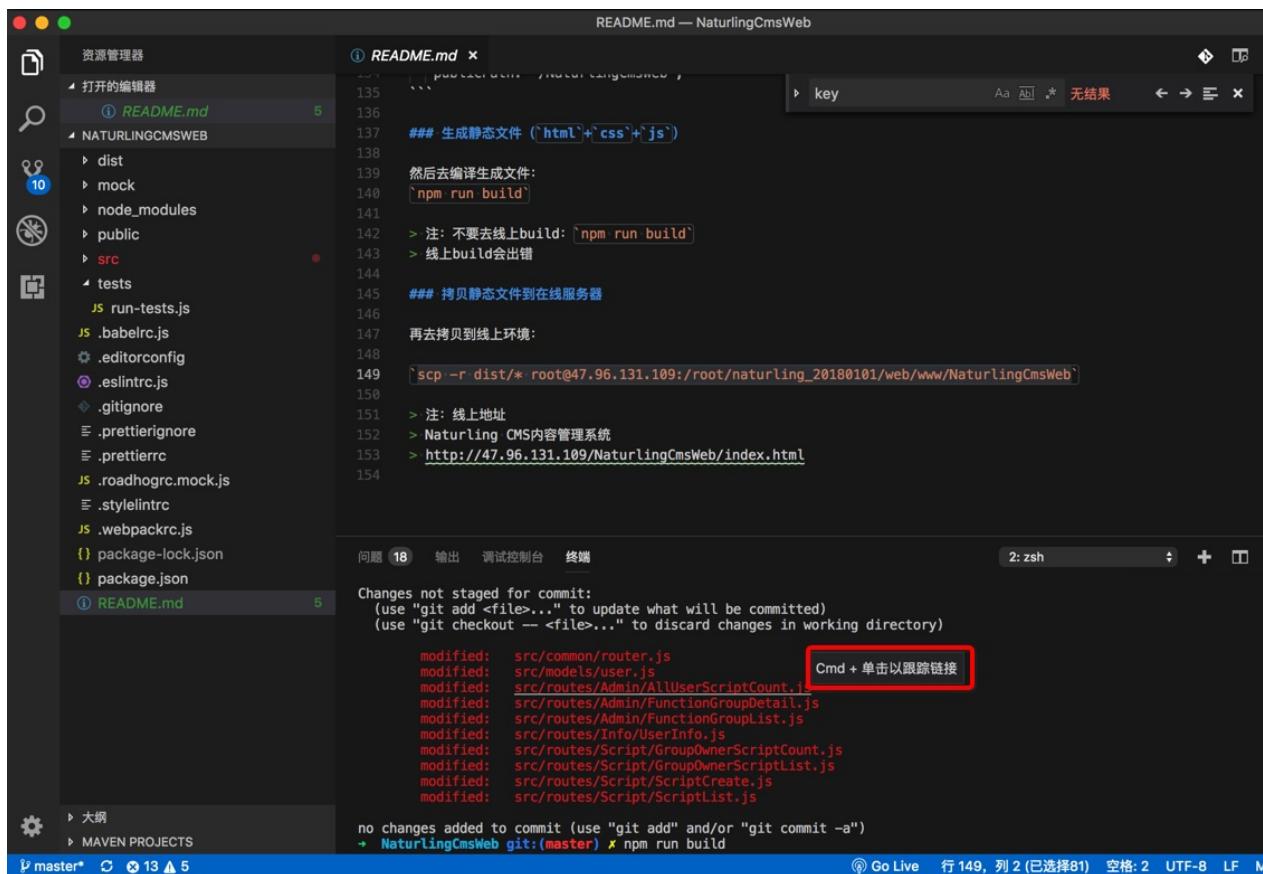
问题 87 输出 调试控制台 终端

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 []
```



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：



且Command+鼠标点击可以直接跳转打开对文件：

```

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

```

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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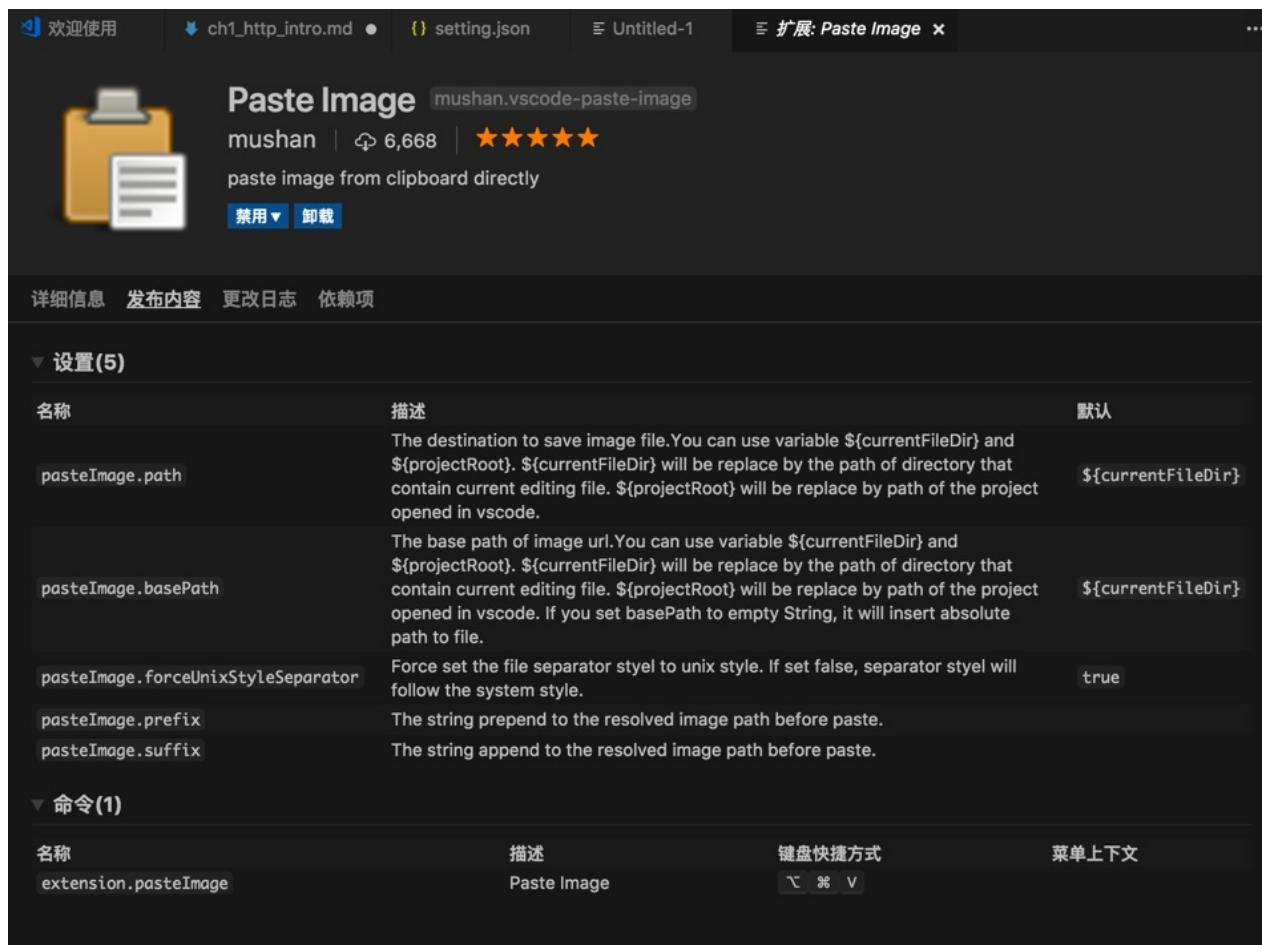
# 插件

## 配置插件的参数

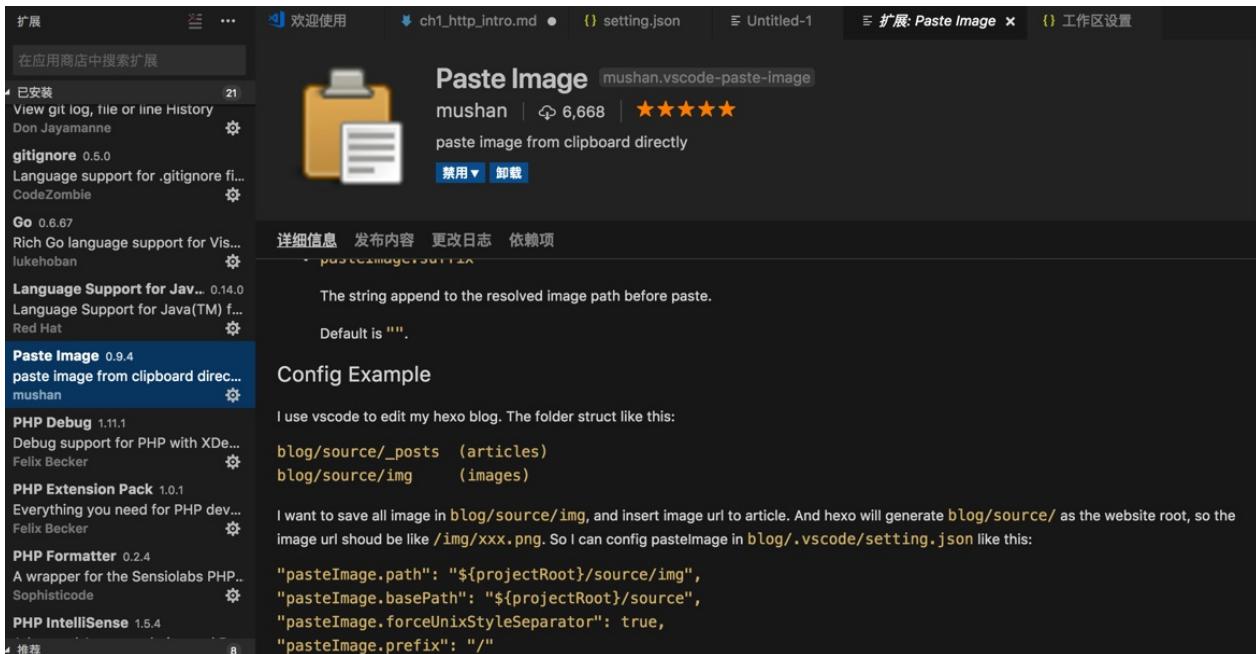
下面通过插件 [Paste Image](#) 为例，来解释，如何配置插件的参数。

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：



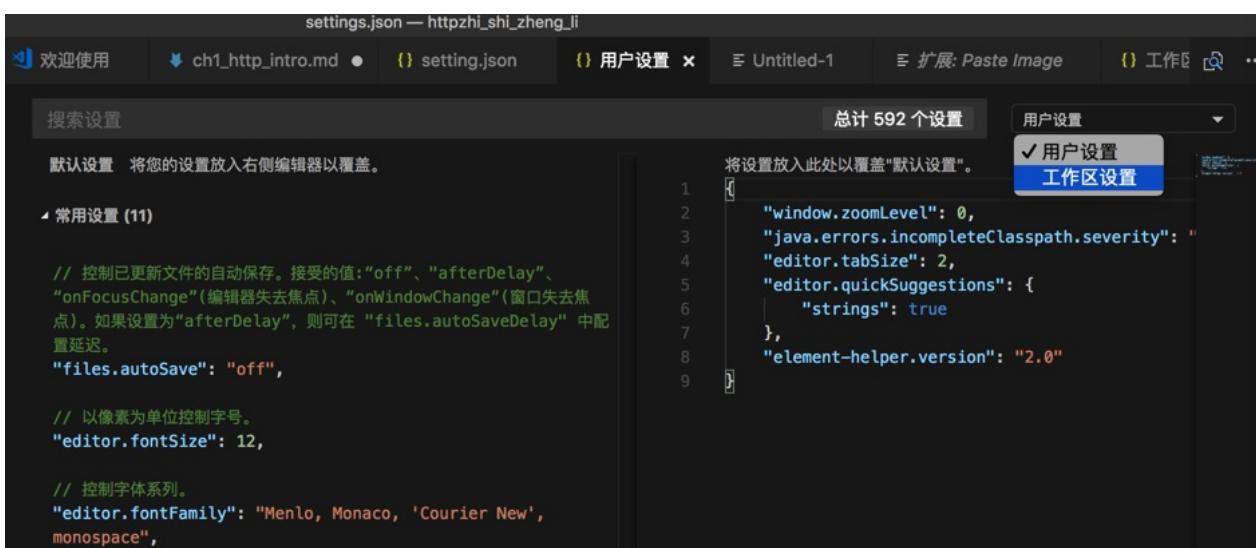
此处能看到与此处截图保存路径相关参数是： `pasteImage.path`, `pasteImage.forceUnixStyleSeparator`, `pasteImage.prefix`

然后去设置插件参数：

Code -> 首选项 -> 设置：



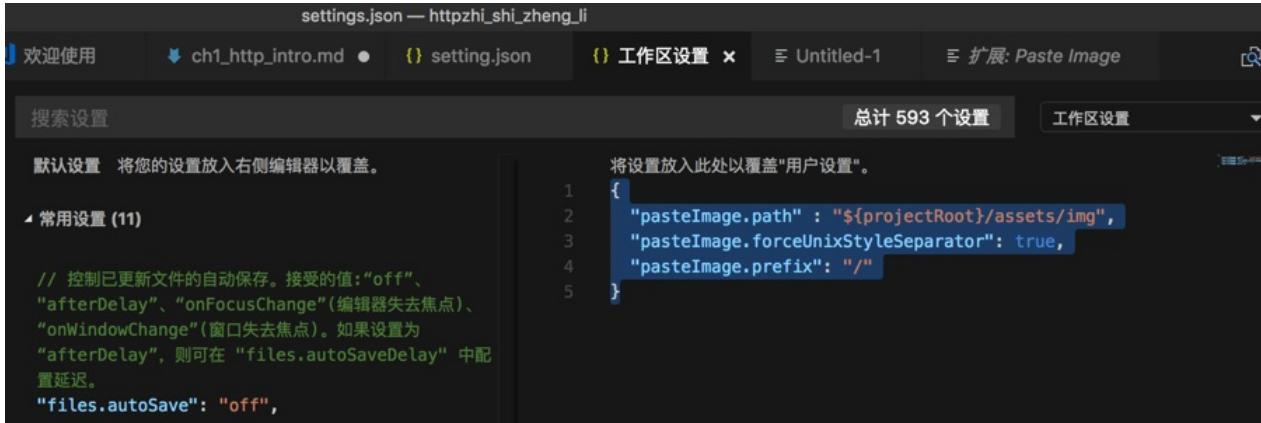
从 用户 切换到 工作区设置：



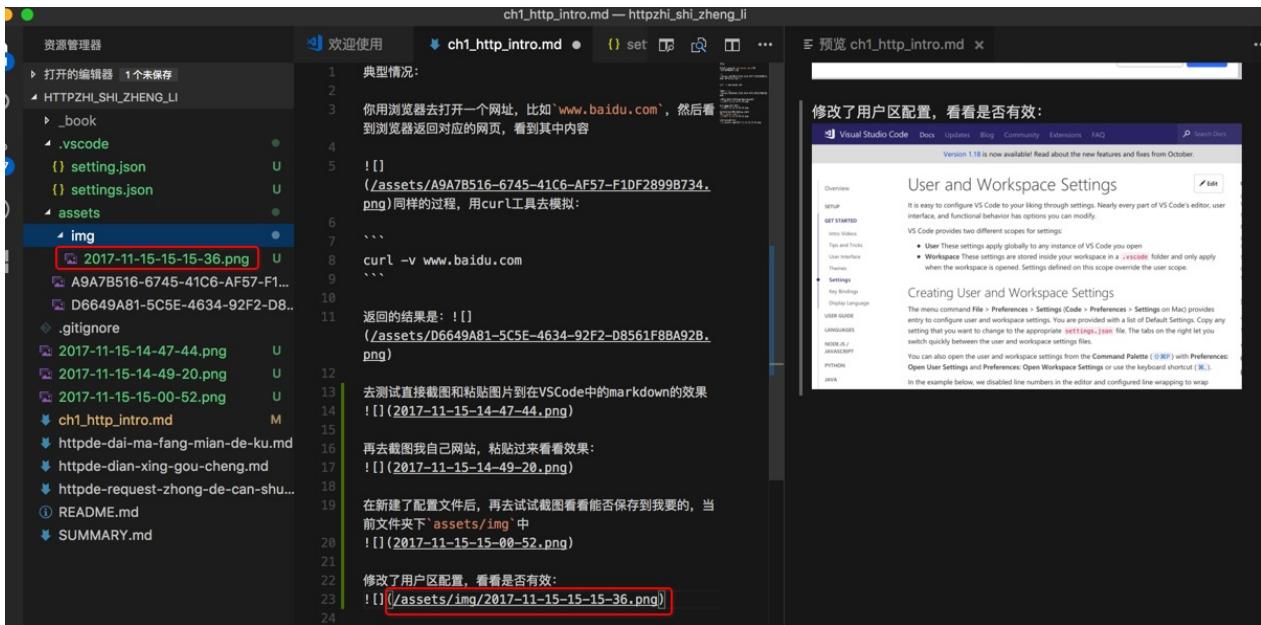
然后把此处相关配置：

```
{
 "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

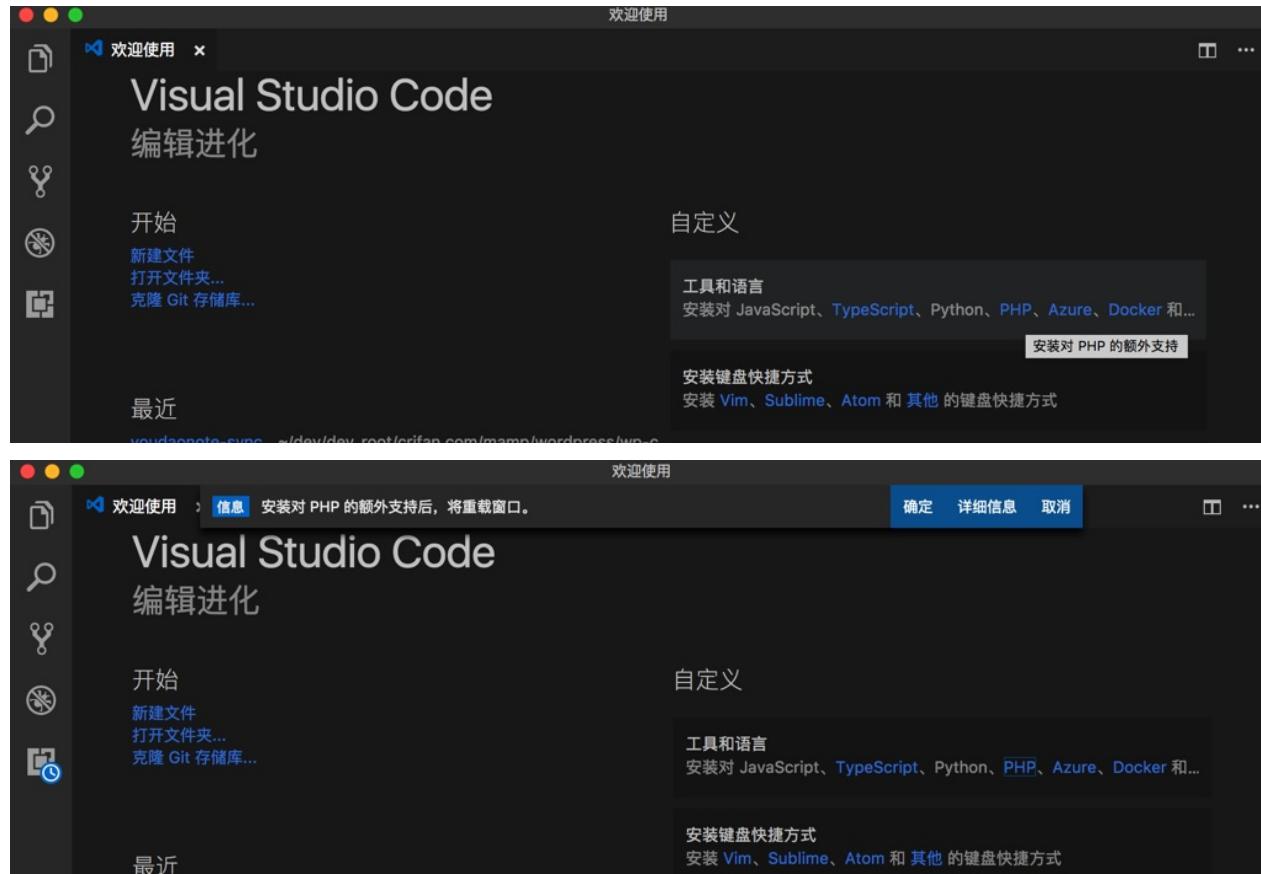
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# 插件市场

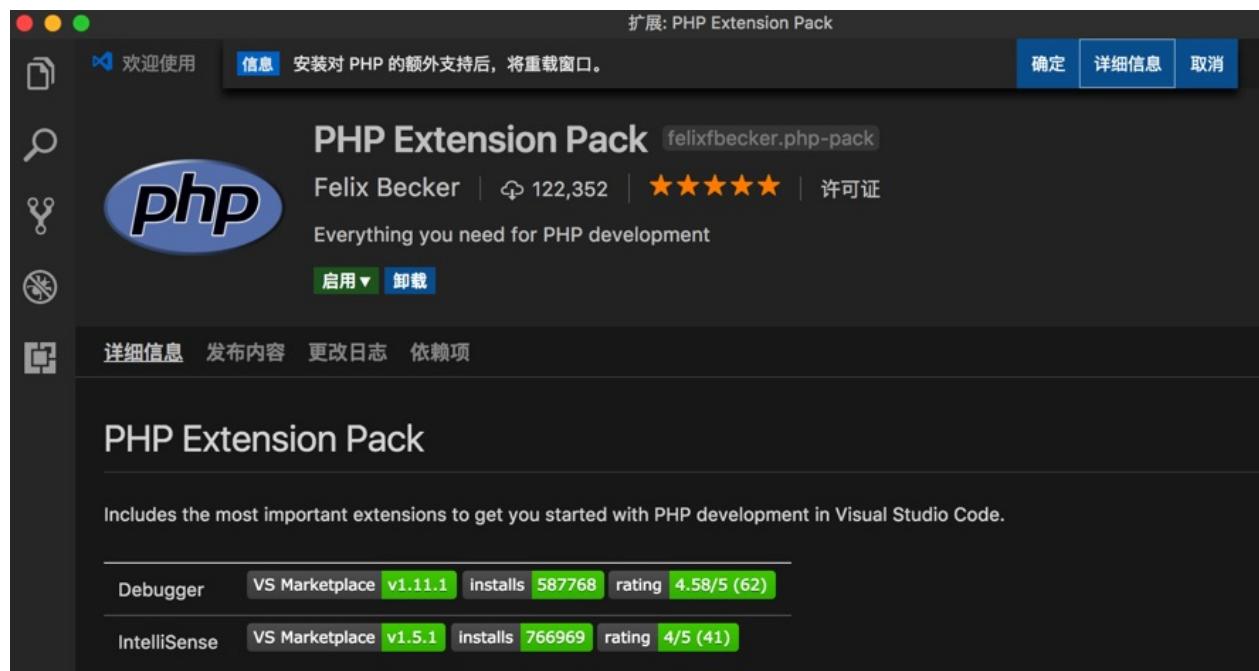
为了支持更多功能和语言，可以通过插件实现。

## 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：

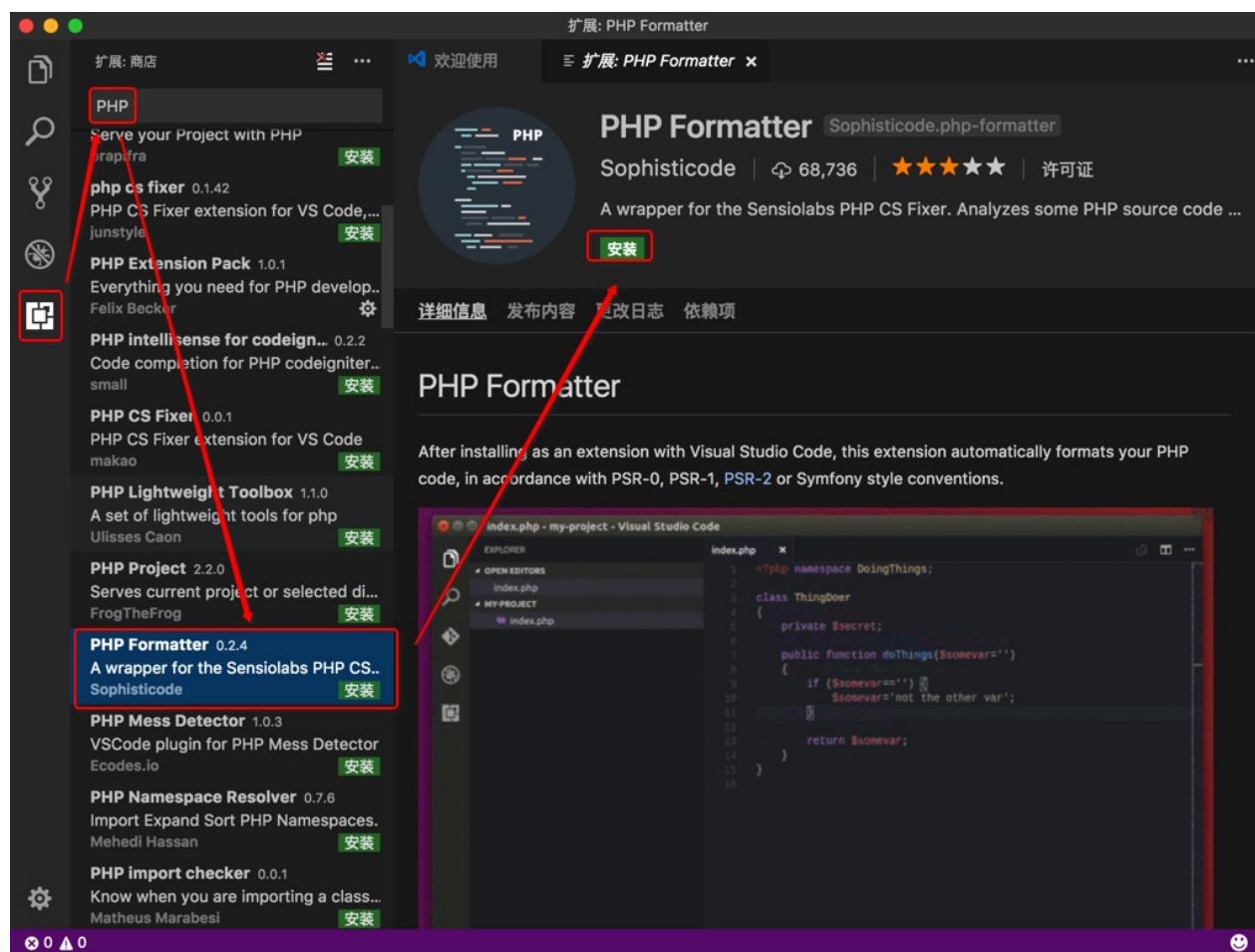


点击详细信息：

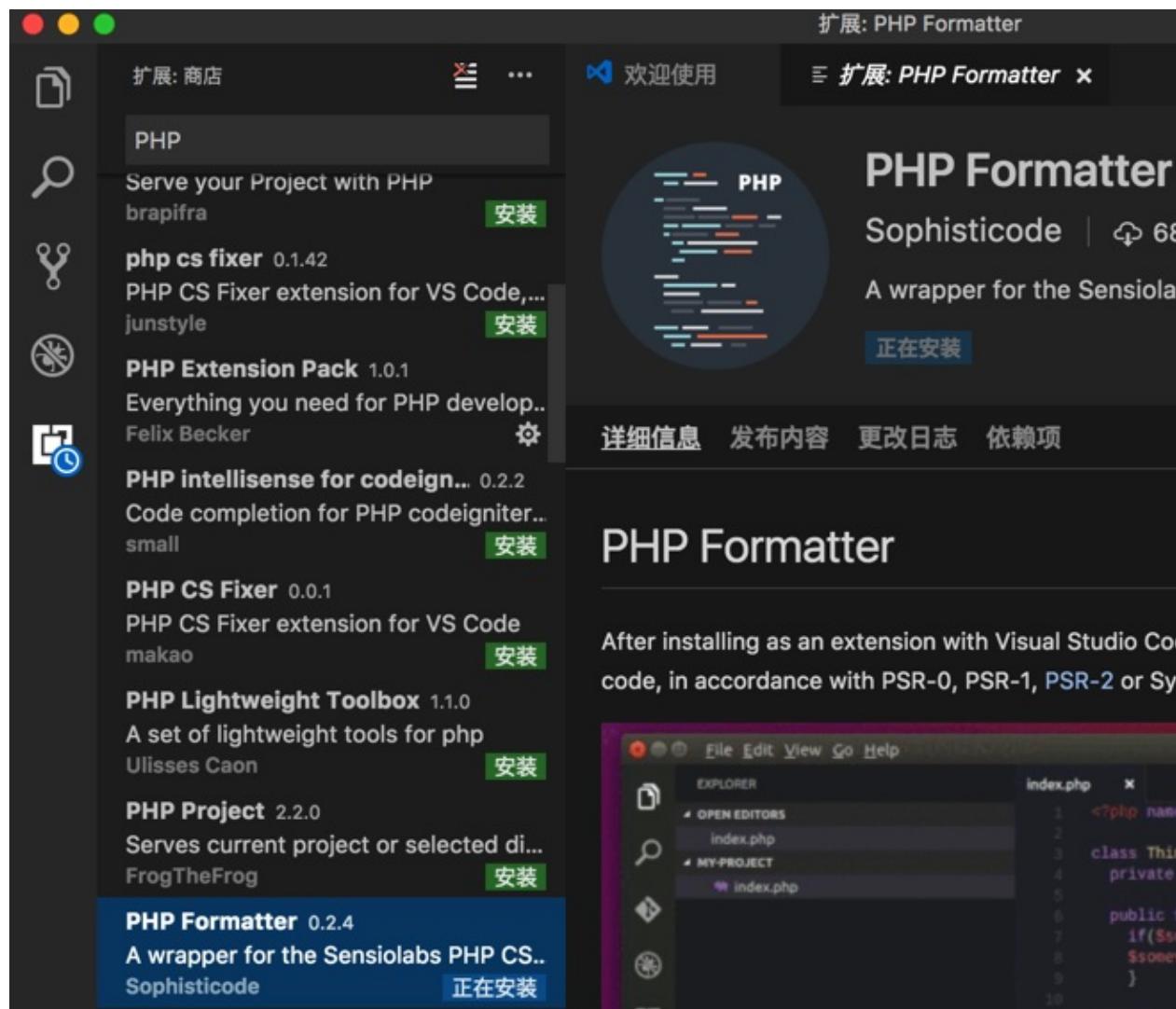


其实更常见的做法是：

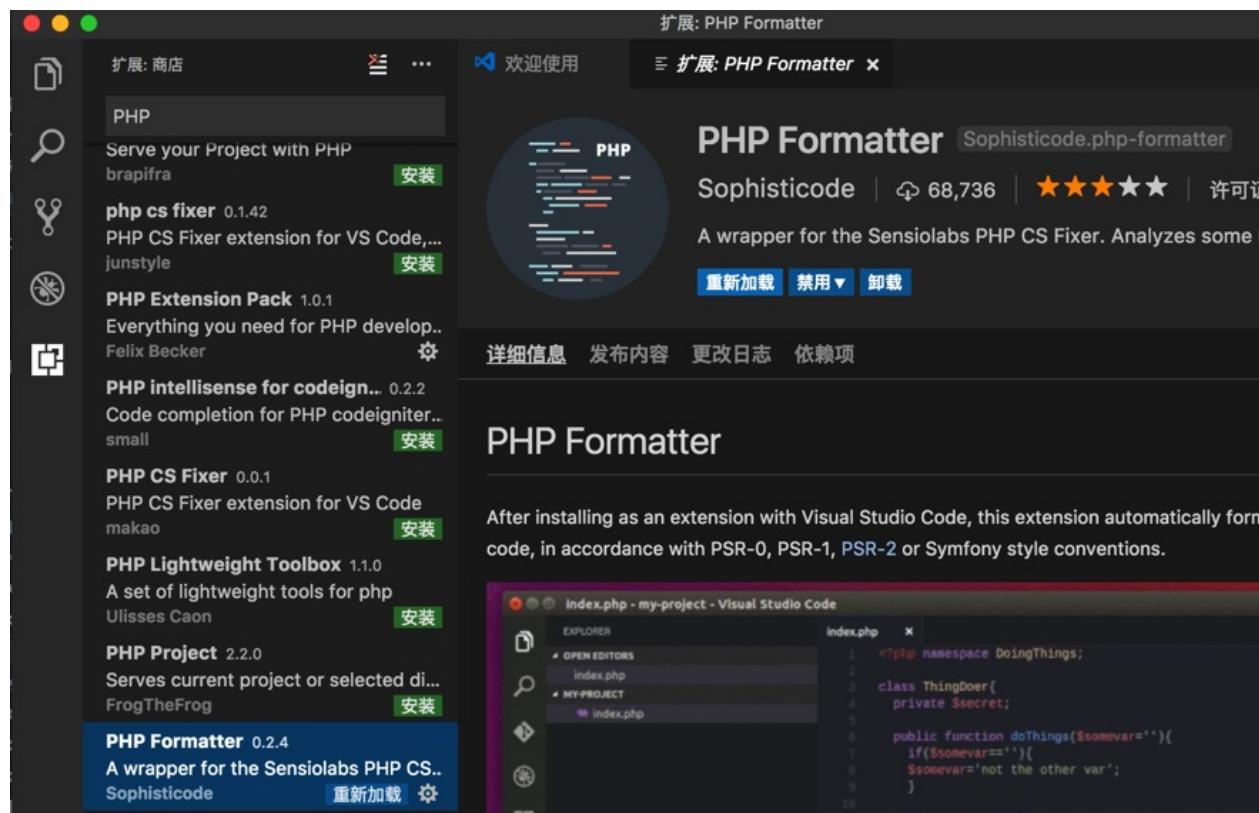
扩展 -> 输入框中输入： PHP -> 点击某个插件的： 安装



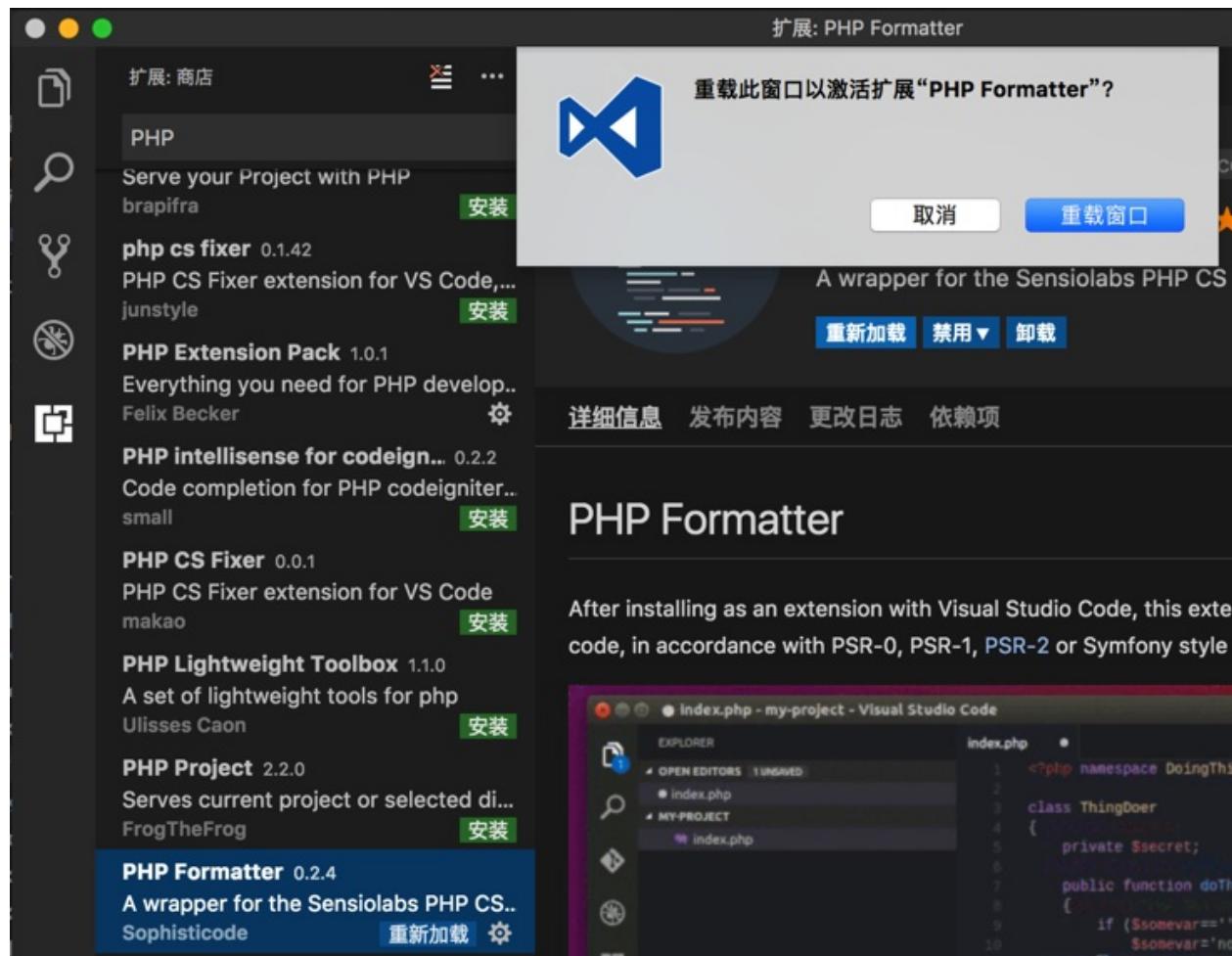
即可安装：



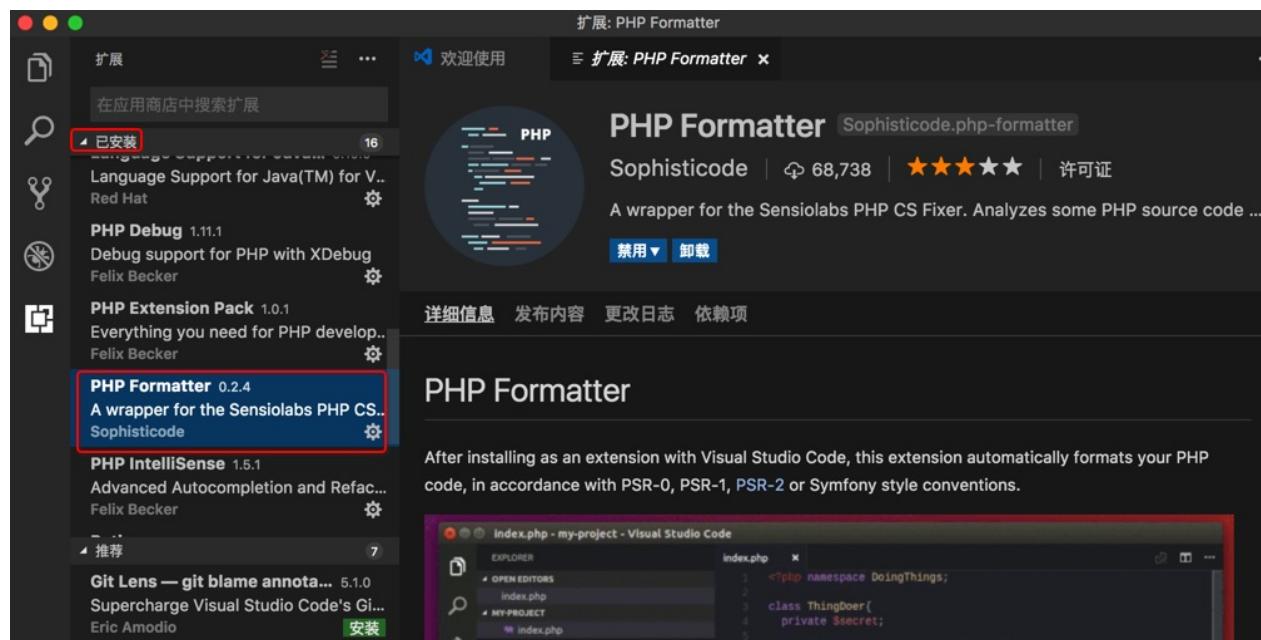
安装后，提示重启：



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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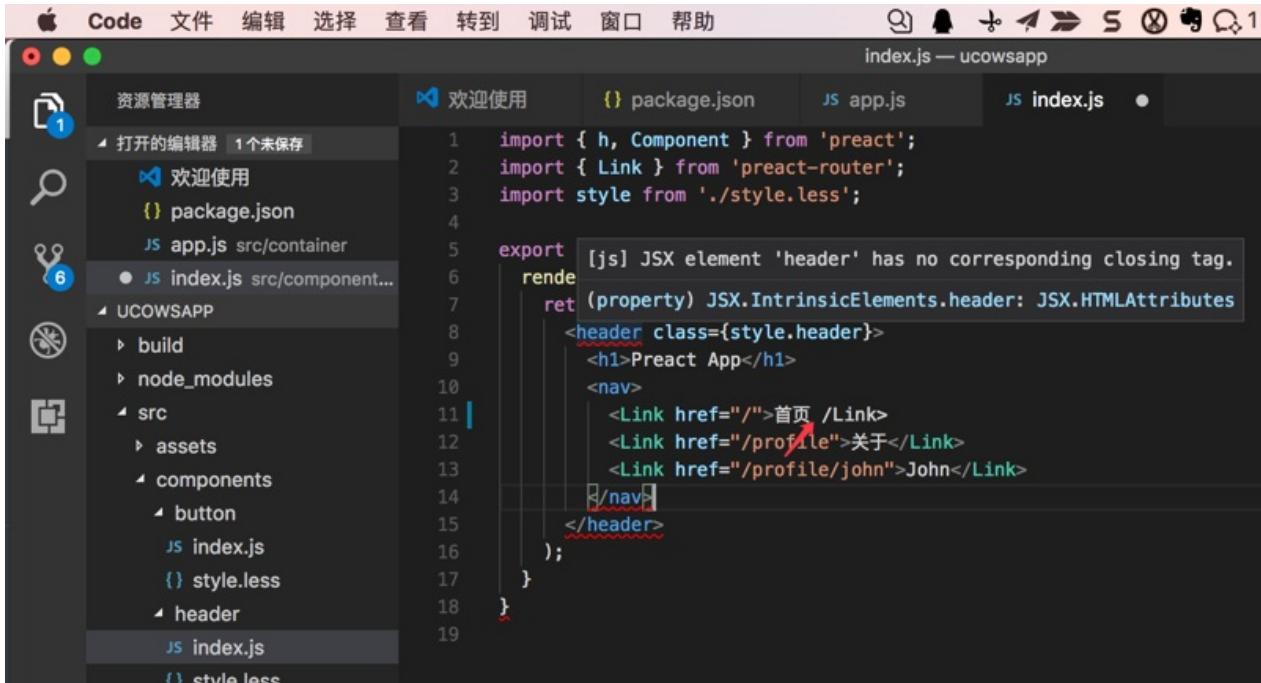
## 常用插件

### 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](#)



# Markdown插件

VSCODE中，有多款[Markdown](#)的插件。

目前自己在用的方式是：

同时安装2个：

- `Markdown Preview Enhanced`
  - 平时主要用：`Markdown Preview Enhanced`
- `Markdown All in One`
  - 偶尔用到 `Markdown All in One`
    - 记得好像是：写Markdown时的语法自动补全等

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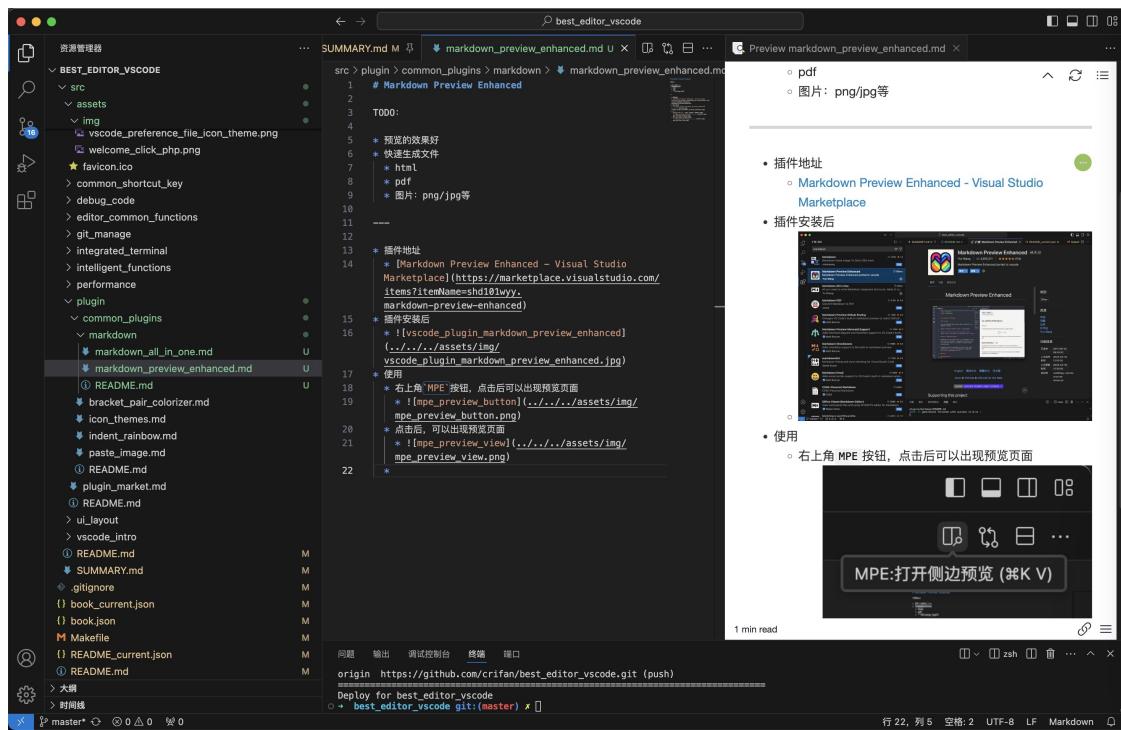
## Markdown Preview Enhanced

- 插件地址
  - [Markdown Preview Enhanced - Visual Studio Marketplace](#)
- 插件安装后

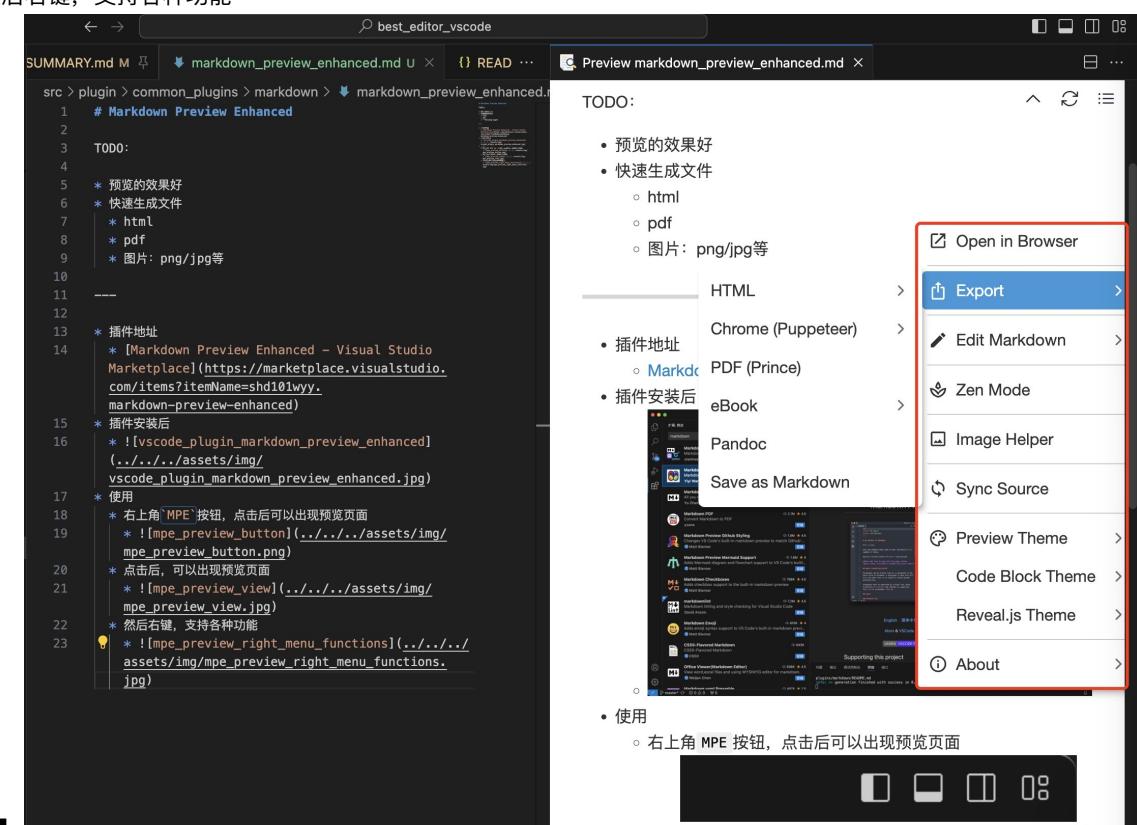
- 
- 使用
  - 右上角 MPE 按钮，点击后可以出现预览页面



- 点击后，可以出现预览页面



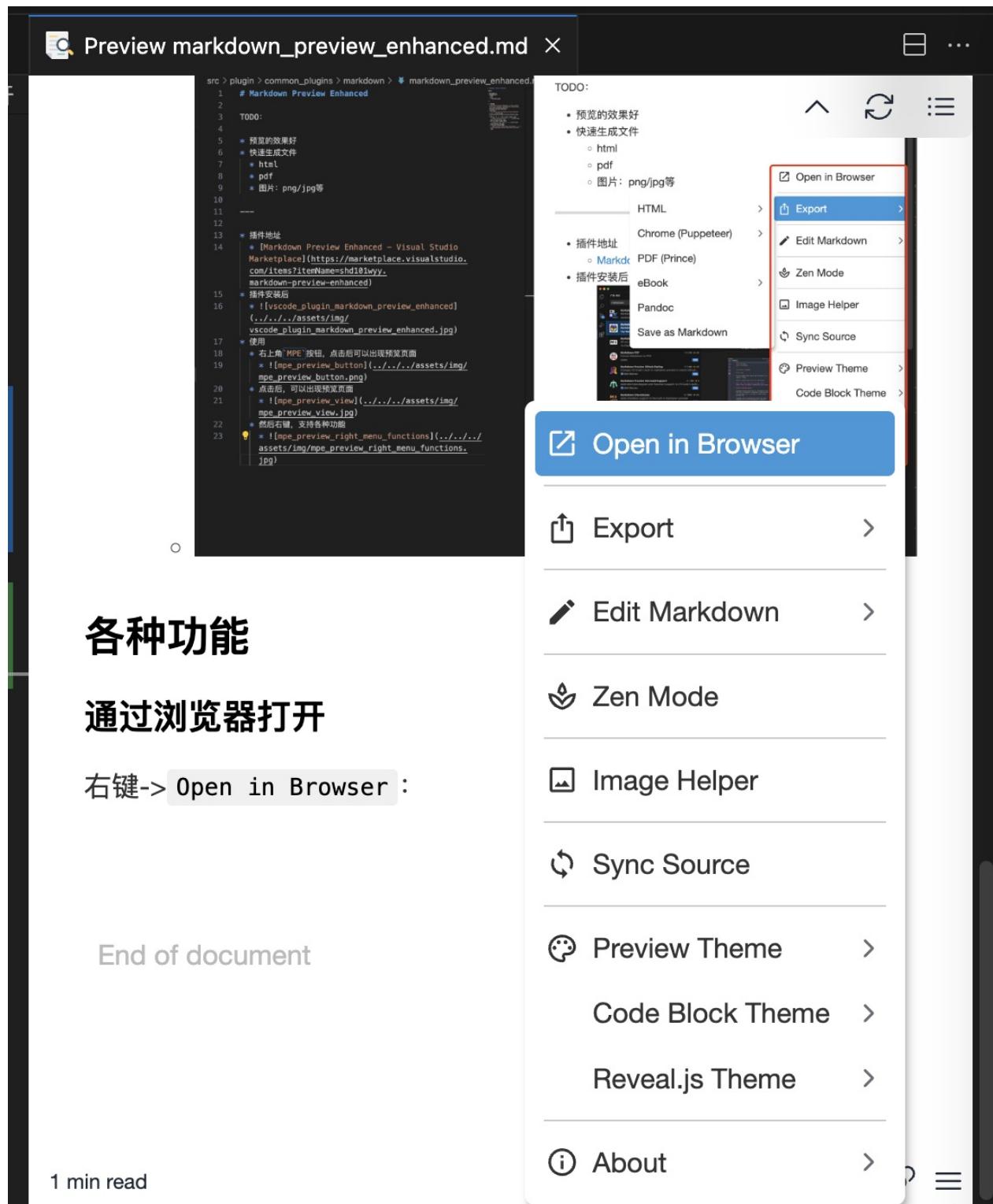
- 然后右键，支持各种功能



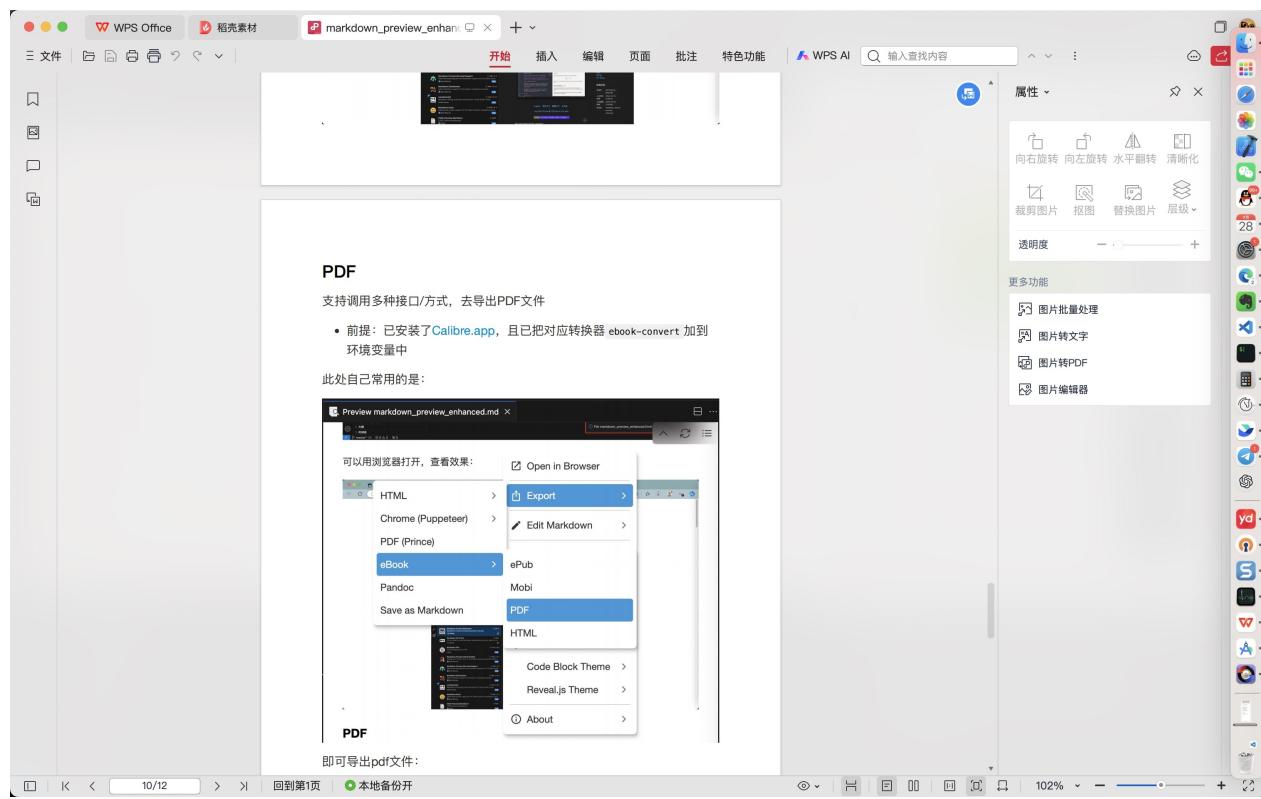
## 各种功能

### 通过浏览器打开

右键-> Open in Browser :

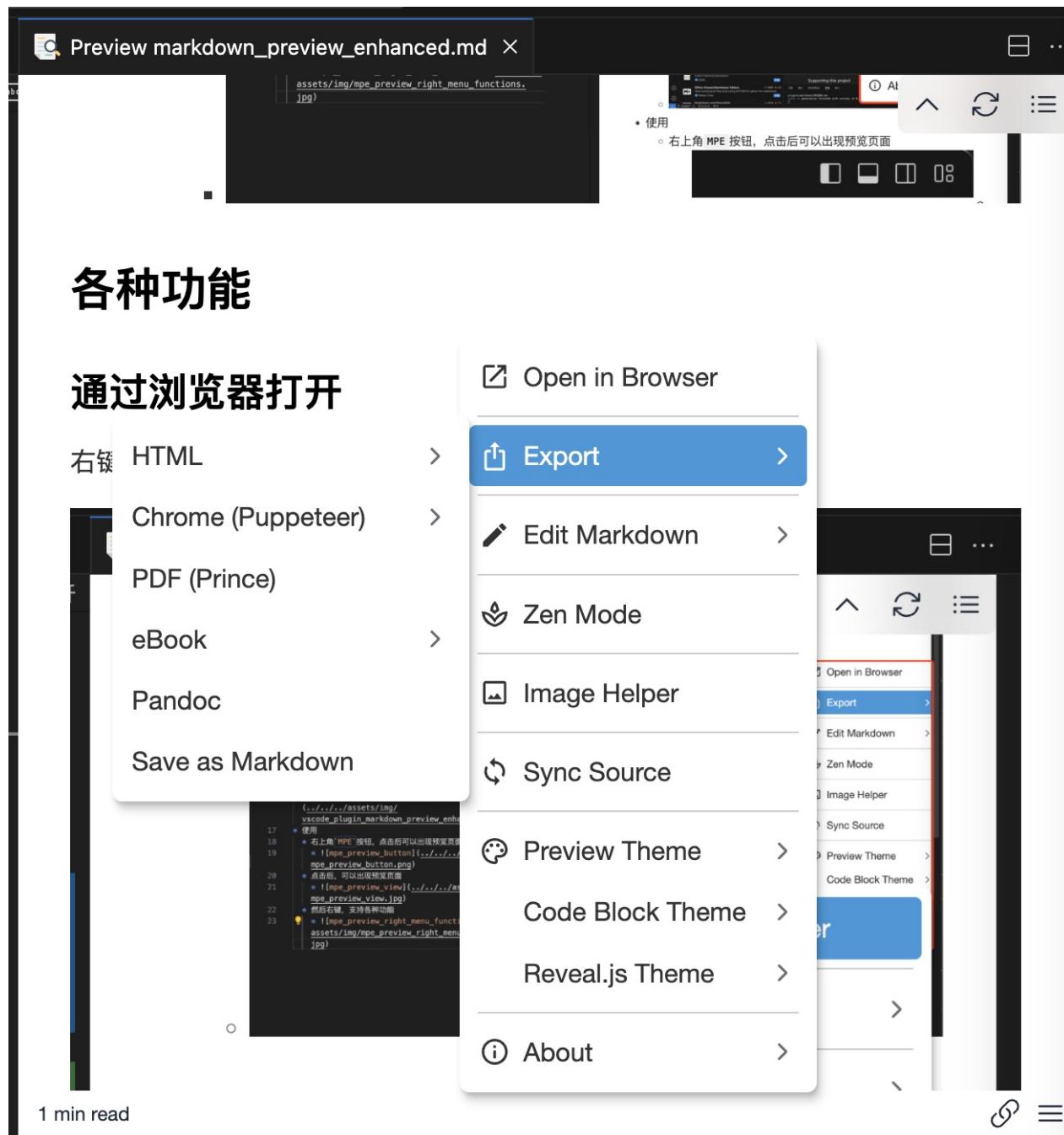


通过浏览器打开的预览的效果：



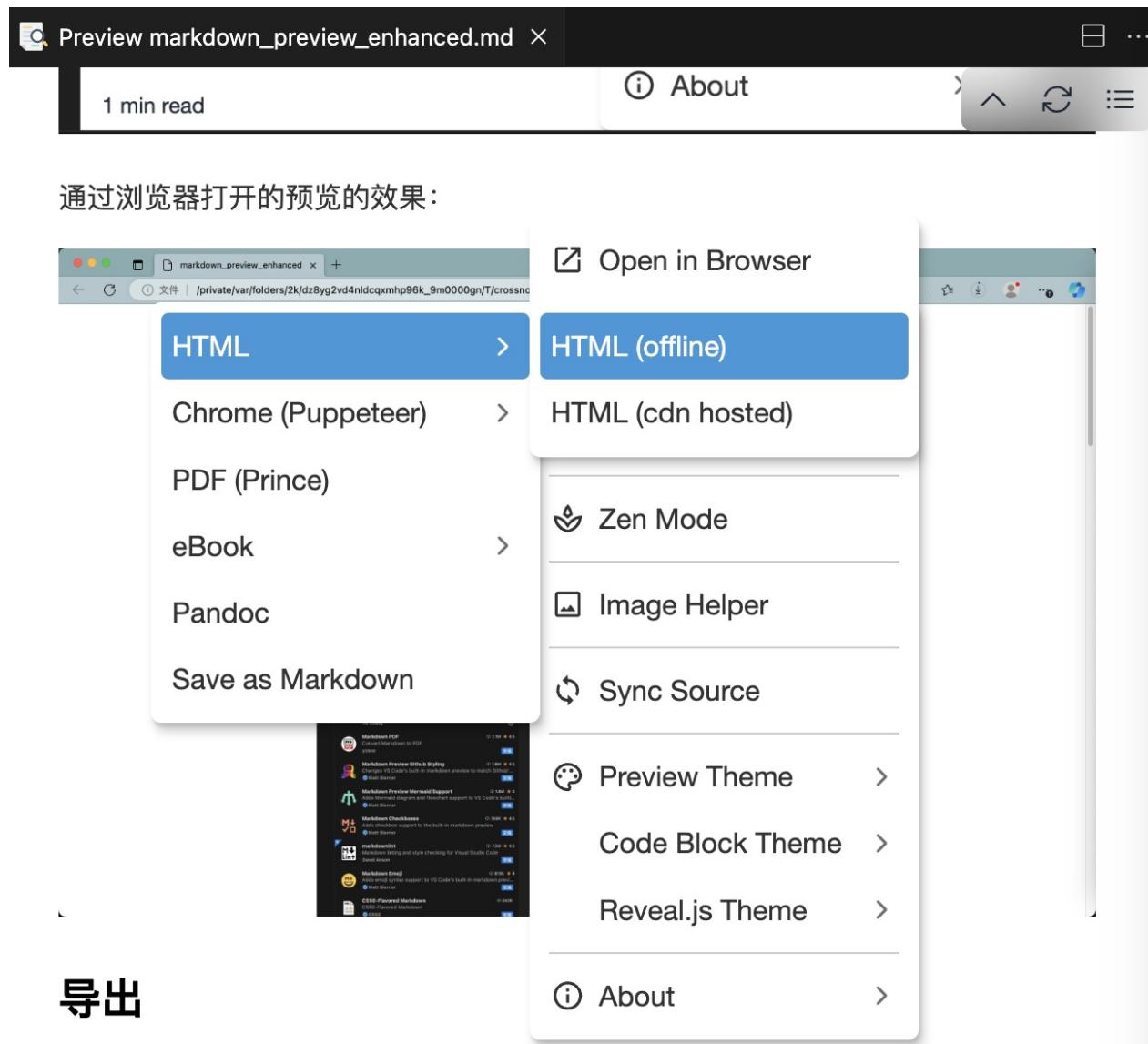
## 导出

右键选择: Export 后, 支持导出为各种格式:



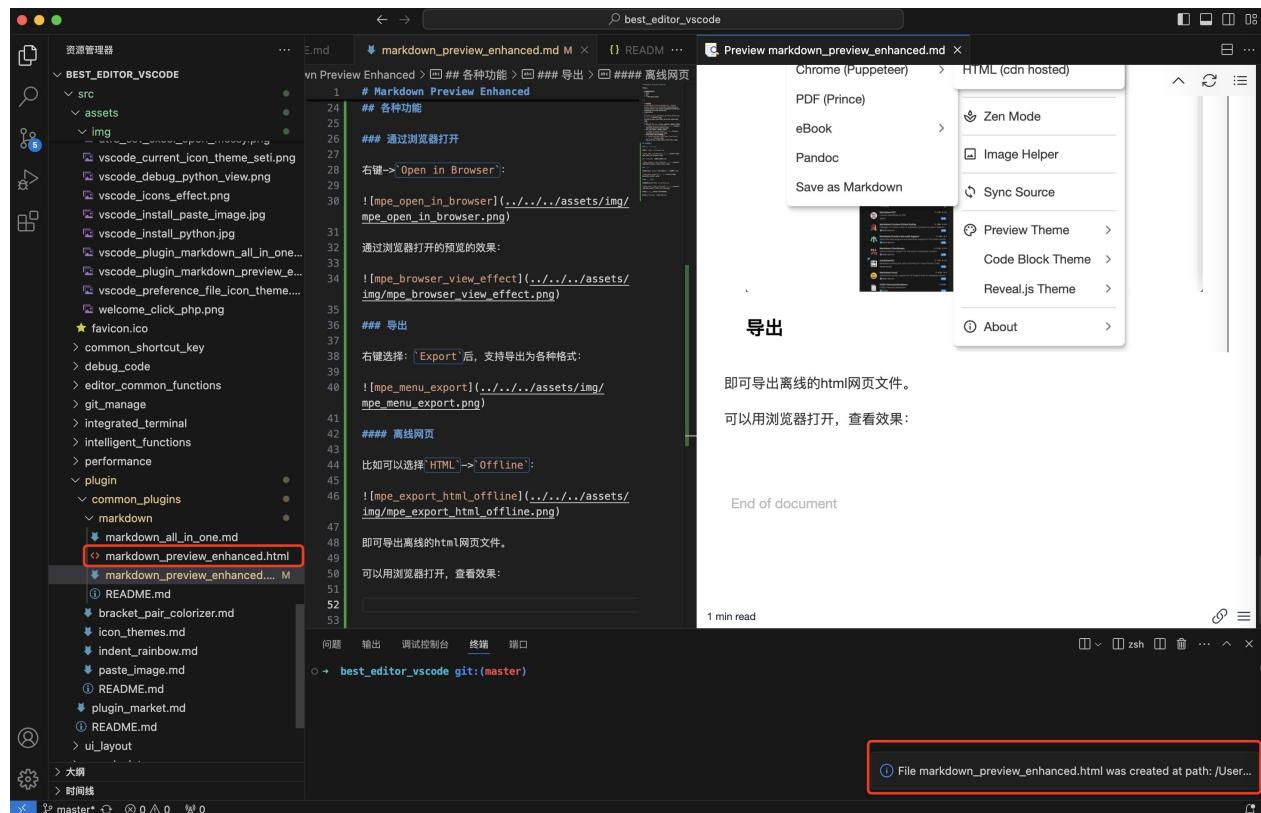
## 离线网页

比如可以选择 HTML -> Offline :

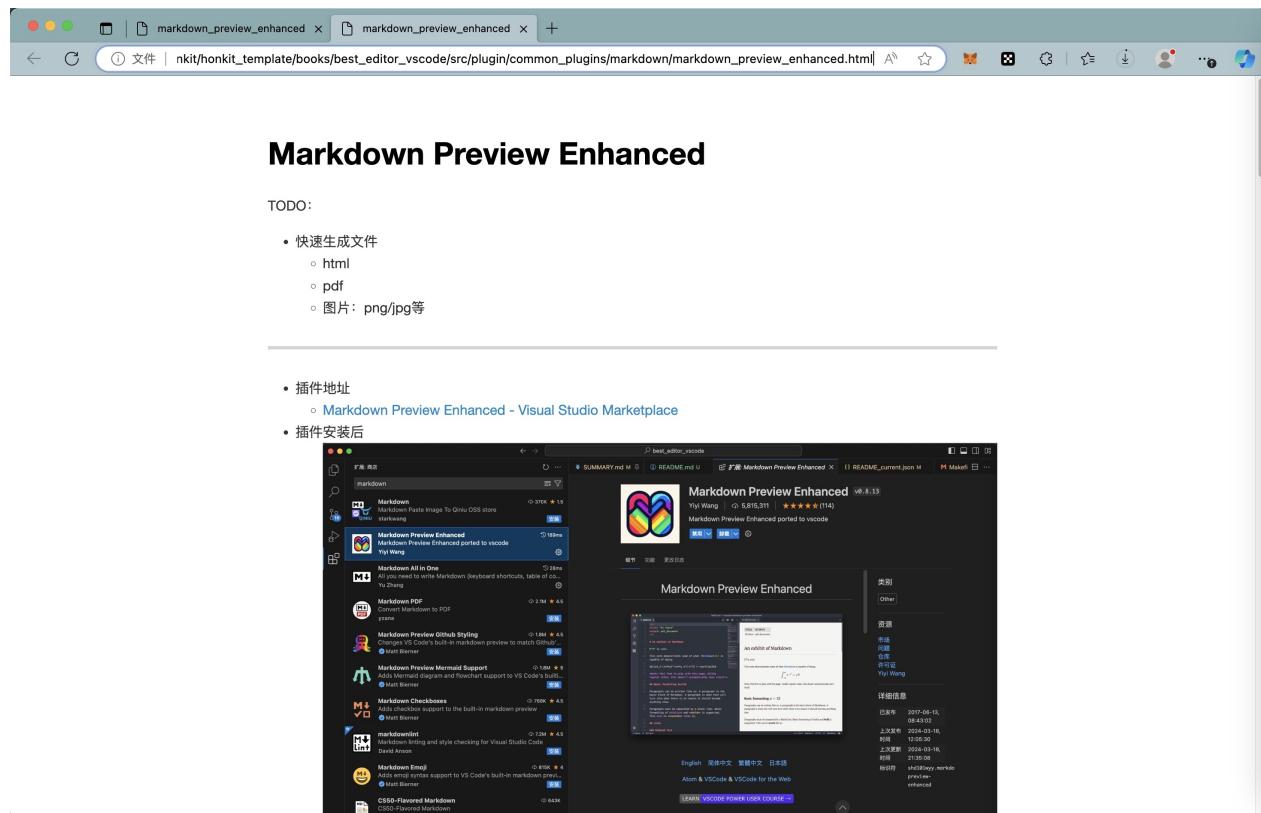


## 导出

即可导出离线的html网页文件：



可以用浏览器打开，查看效果：

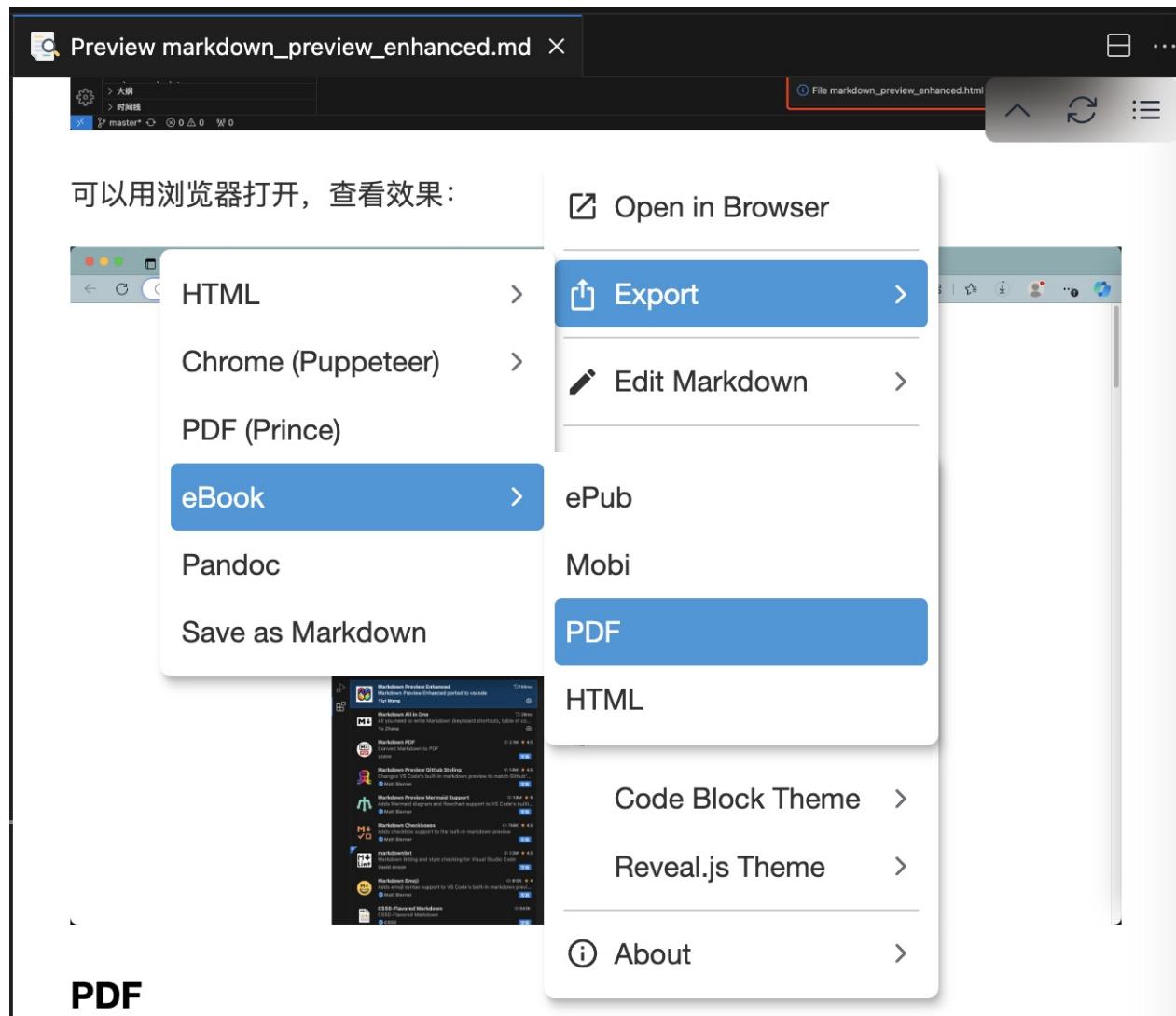


## PDF

支持调用多种接口/方式，去导出PDF文件

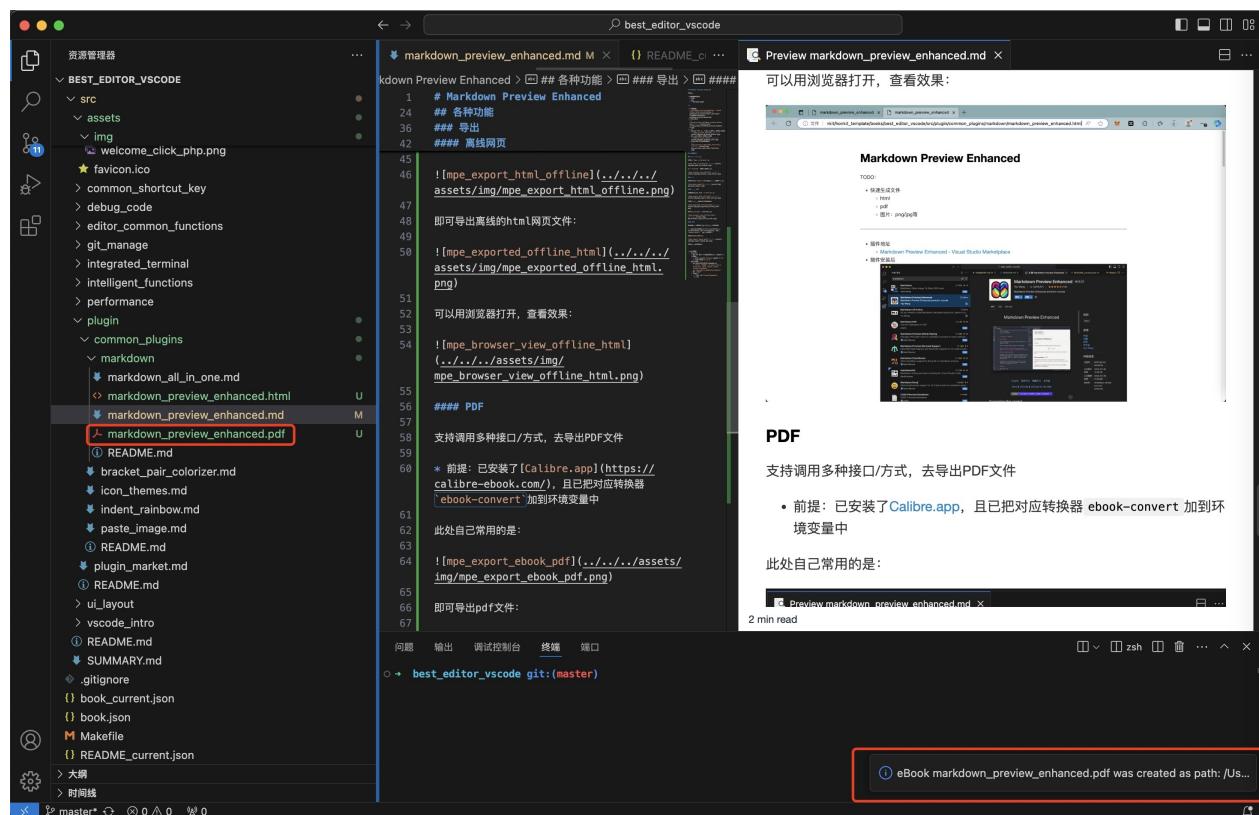
- 前提：已安装了[Calibre.app](#)，且已把对应转换器 `ebook-convert` 加到环境变量中

此处自己常用的是：

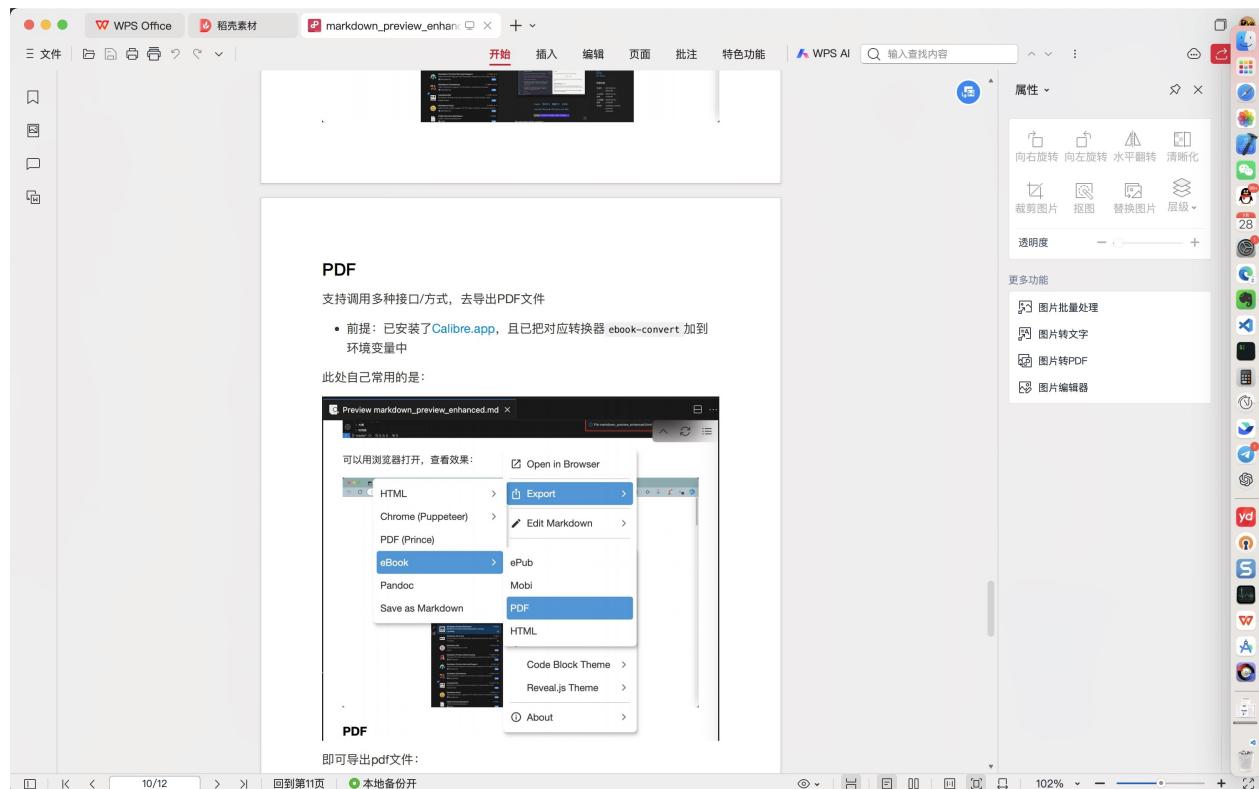


## PDF

即可导出pdf文件：



双击打开，可以看到，效果还是可以的：



## 相关心得

### 导出的pdf是空白文件

- Mac M2 Max中，遇到问题：导出的pdf是空白文件
  - 解决办法：把 Calibre 从新版 v6.18.1，换回旧版 v3.12.0

## Error: ENOENT: no such file or directory,

- 如果报错
  - (像最近20221028, 遇到的) :
    - Error: ENOENT: no such file or directory, open  
'https://book.crifan.org/books/all\_age\_sports\_badminton/website'
  - 很是诡异
  - 则换用
    - 右键 -》 Chrome(Puppeteer) -> PDF

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## Markdown All in One

- 插件官网链接
  - Markdown All in One - Visual Studio Marketplace
    - <https://marketplace.visualstudio.com/items?itemName=yzhang.markdown-all-in-one>
- 插件安装后

◦

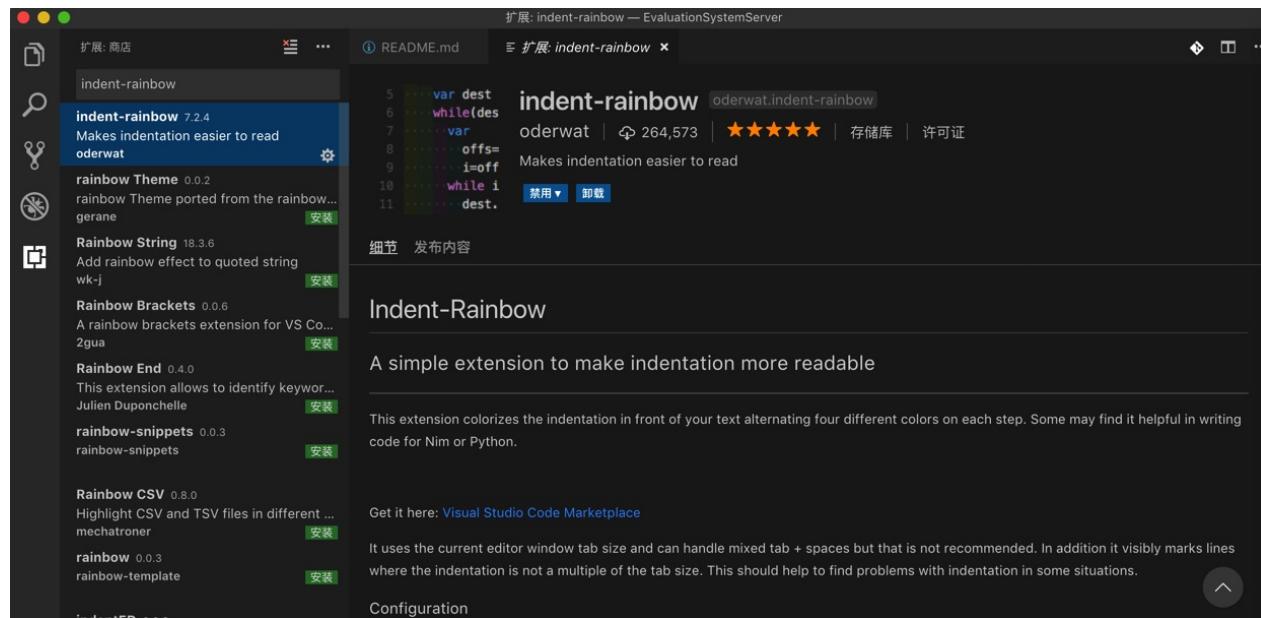
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# indent-rainbow

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:

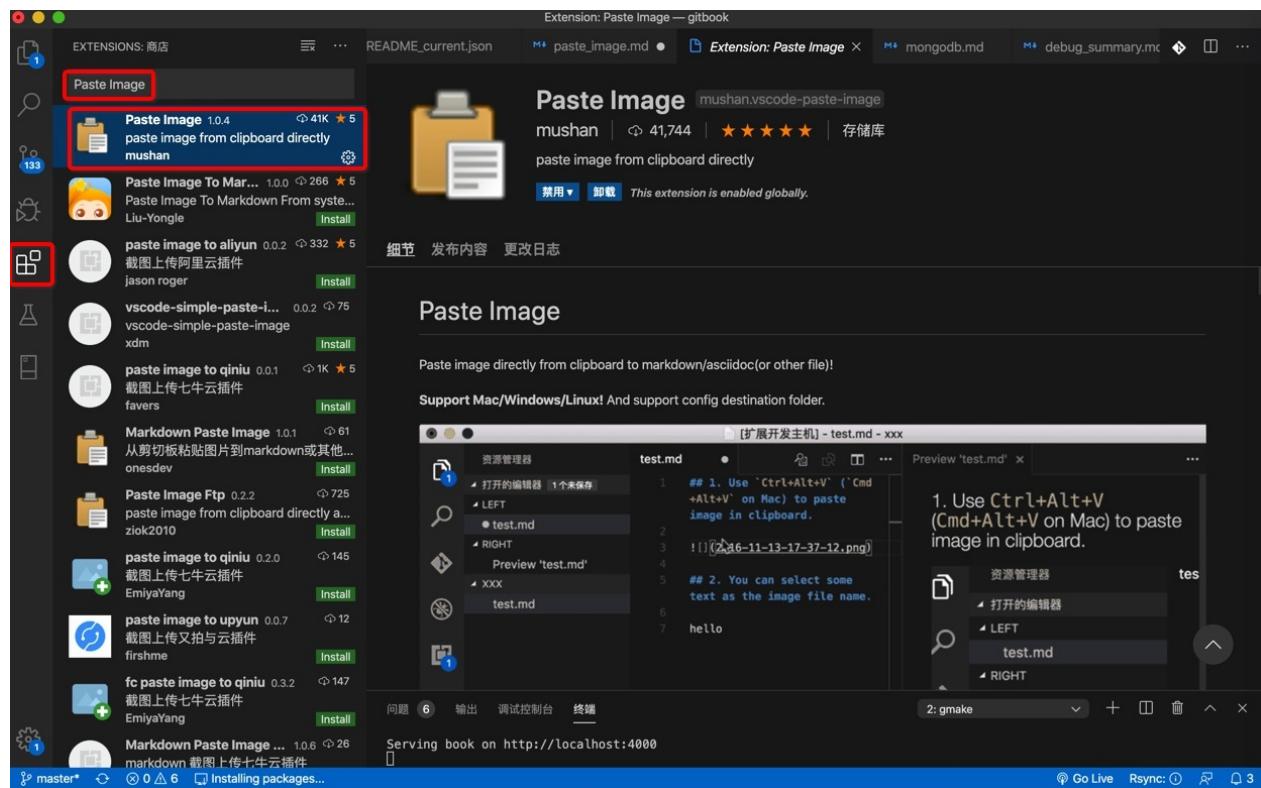
- 列出来括号高亮的效果，尤其是多组嵌套括号

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

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# Paste Image

先去 插件 中安装插件: Paste Image



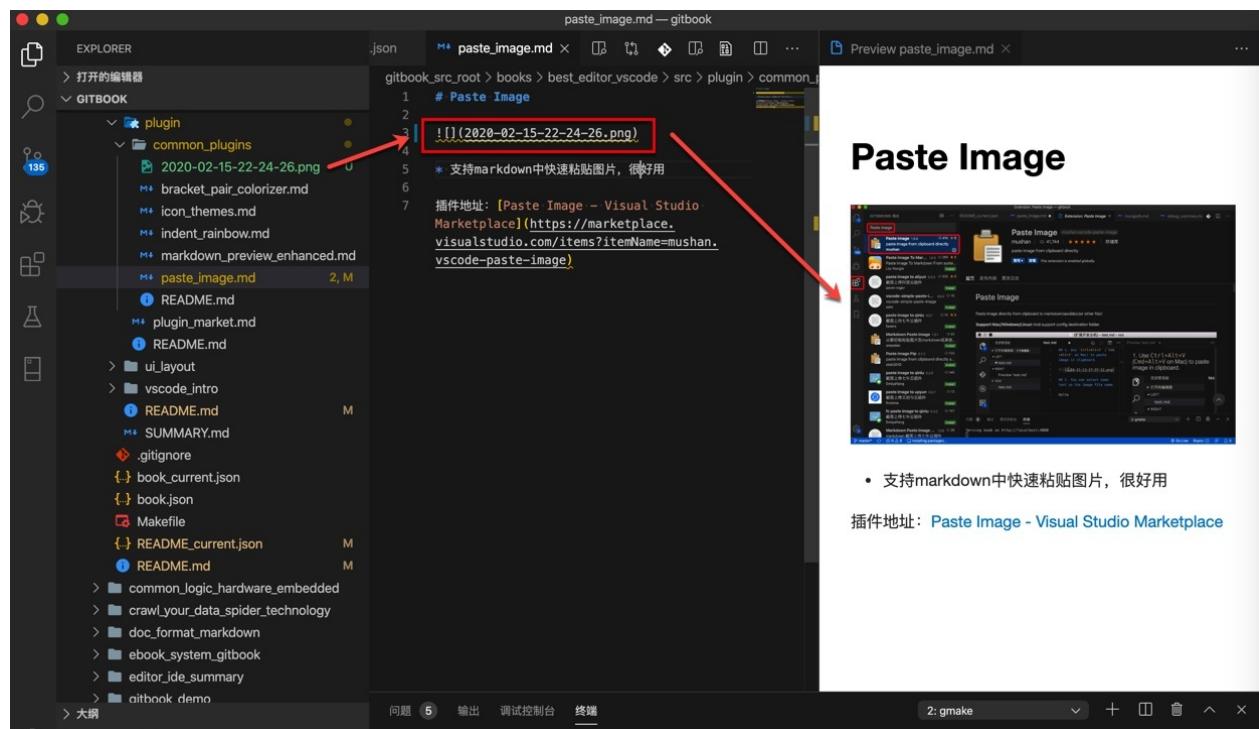
然后确保当前系统剪贴板中有图片，比如复制了图片或者截了图

然后 Mac 中用快捷键 Command+Alt+V，稍等一下，即可粘贴出图片到当前目录，且在当前 Markdown 中插入图片的内容了：

```

```

效果如图：



如此，方便的在当前Markdown同目录下插入图片，效果很不错。

附上：

插件地址: [Paste Image - Visual Studio Marketplace](https://marketplace.visualstudio.com/items?itemName=mushan.vscode-paste-image)

另外，后来遇到过快捷键冲突的，可以参考这个去解决：

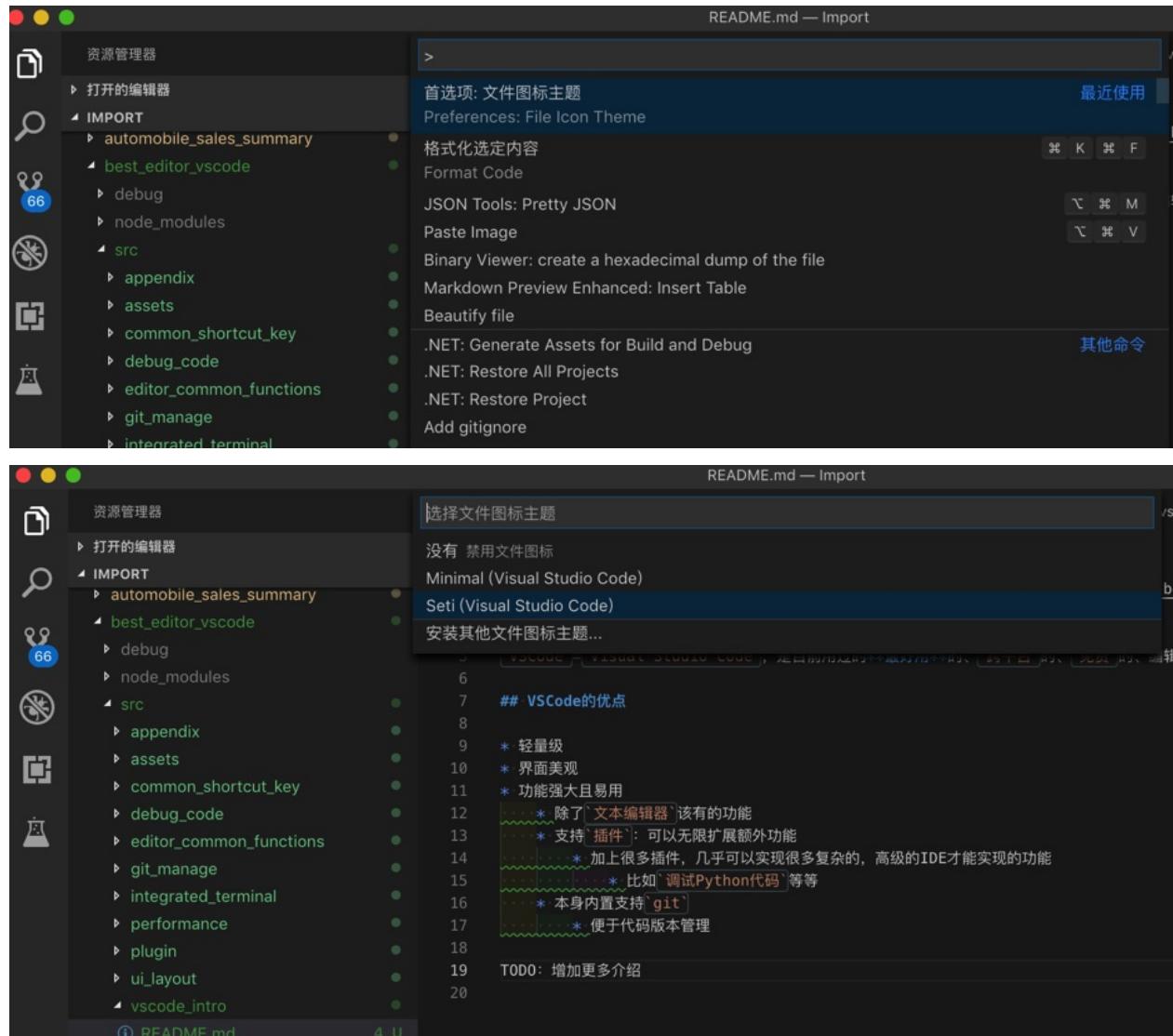
[【已解决】VSCode中插件Paste Image的粘贴图片快捷键Command+Alt+V失效 – 在路上](#)

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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。

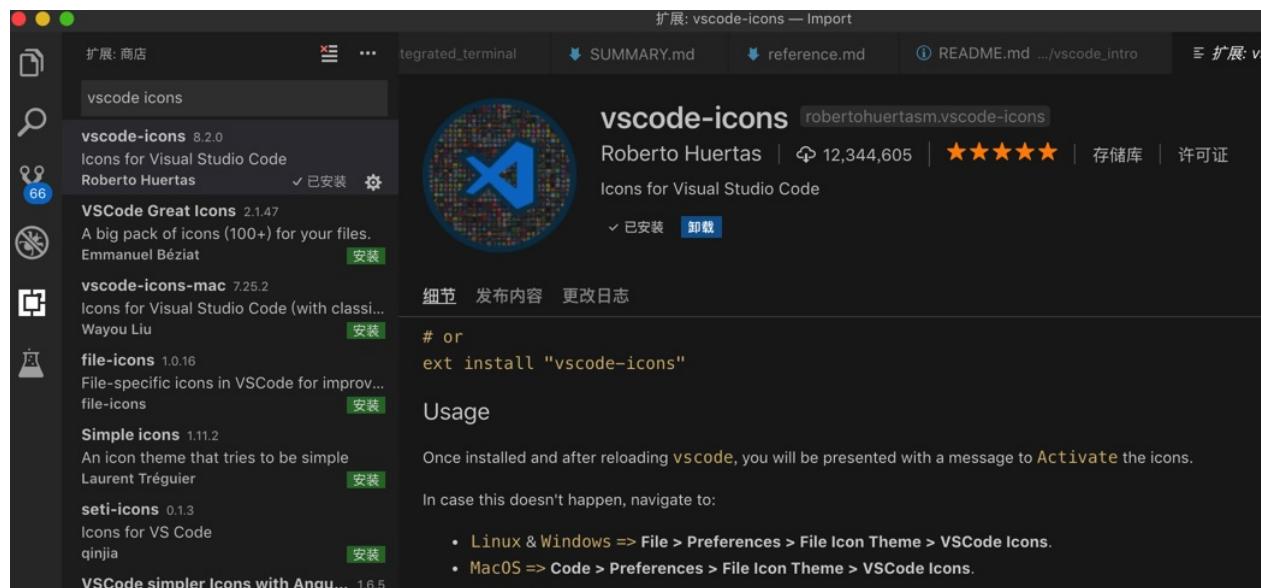
默认是 Seti 主题，效果是：



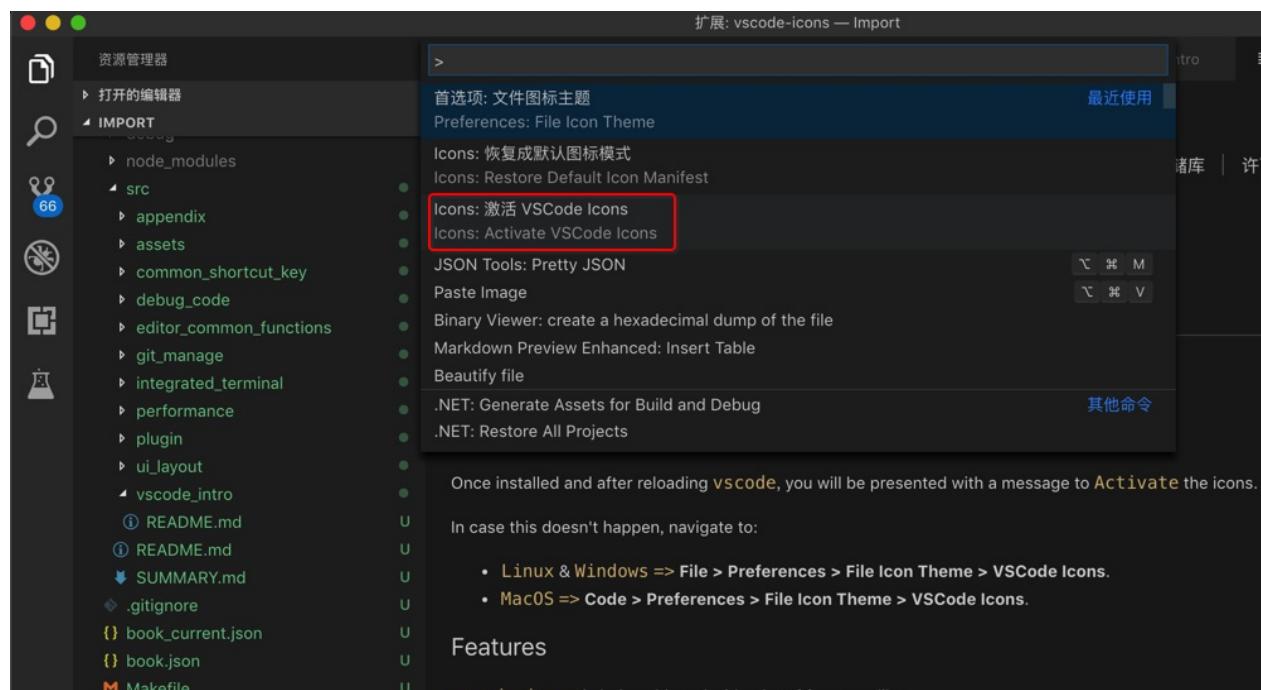
有其他新的图标的主题，比如：

[vscode-icons](#)

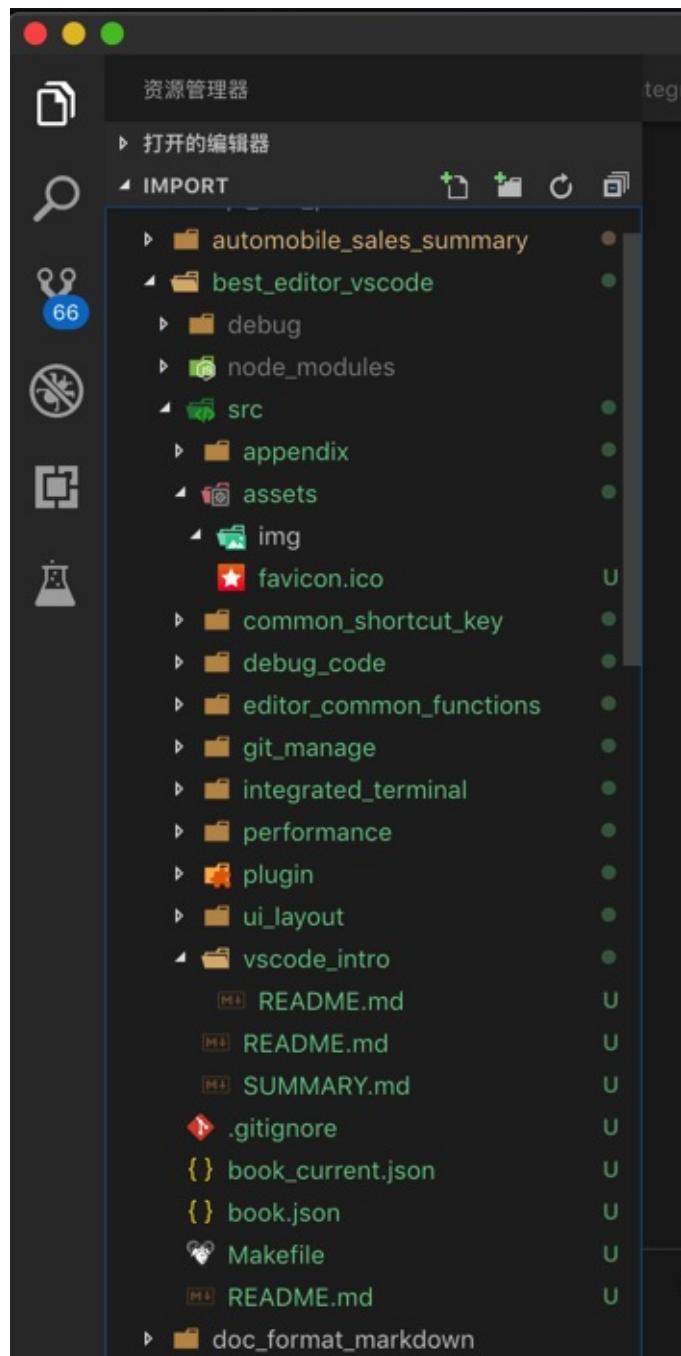
去安装：



之后再去激活：

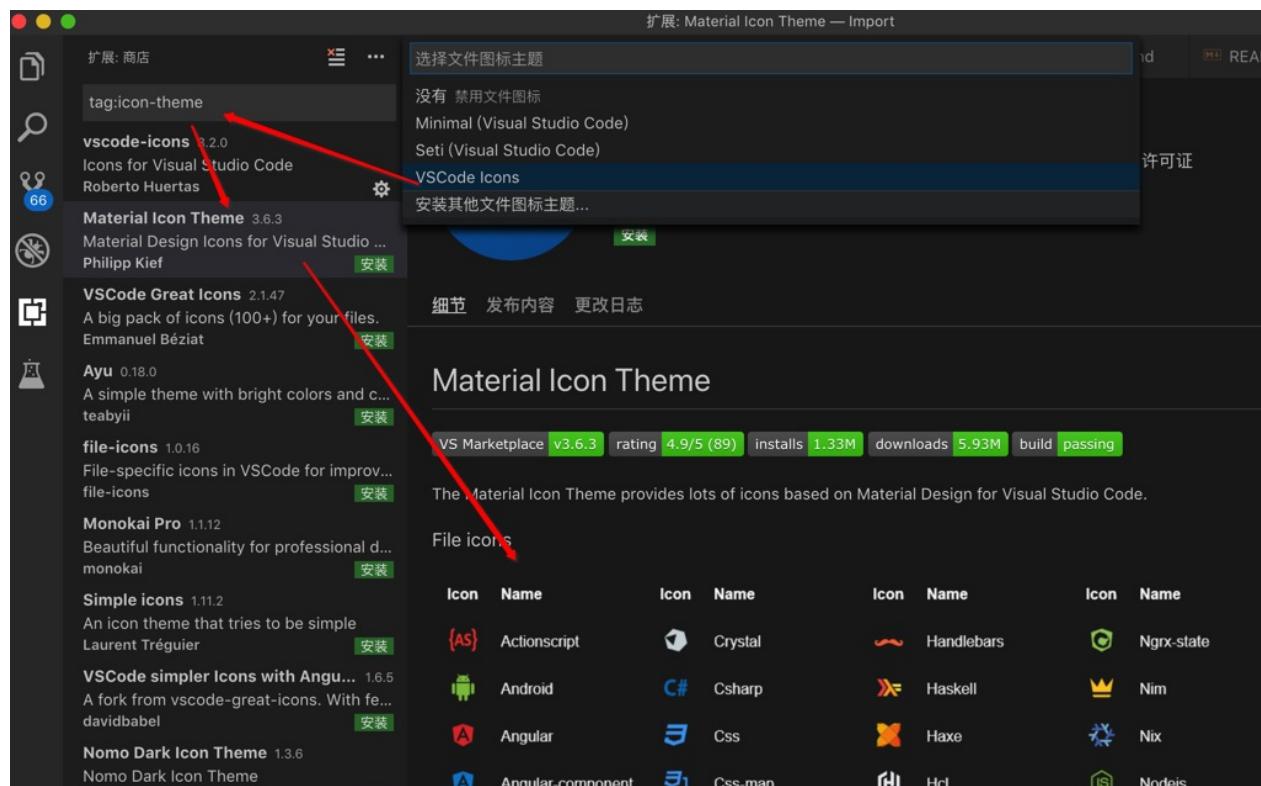


后的效果：



很不错，图标很丰富，识别度比较高。

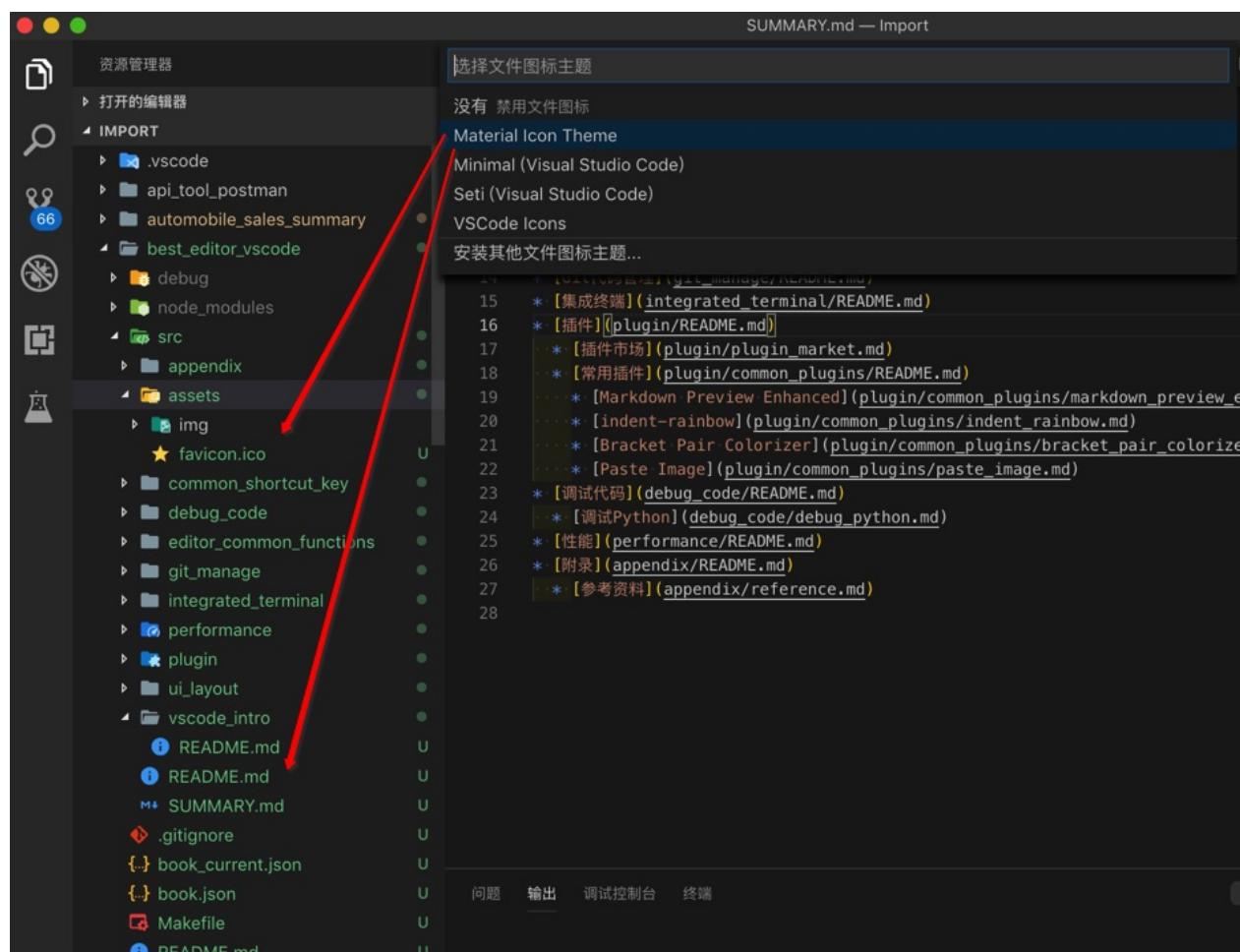
另外，可以再去根据提示去安装其他版本图标的主题：



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。

核心逻辑：

- 首次初始化要做的事
  - 确保已安装 Python 插件
  - 选择Python版本
  - (一次性) 设置好调试配置
- 之后每次可以直接
  - 启动调试

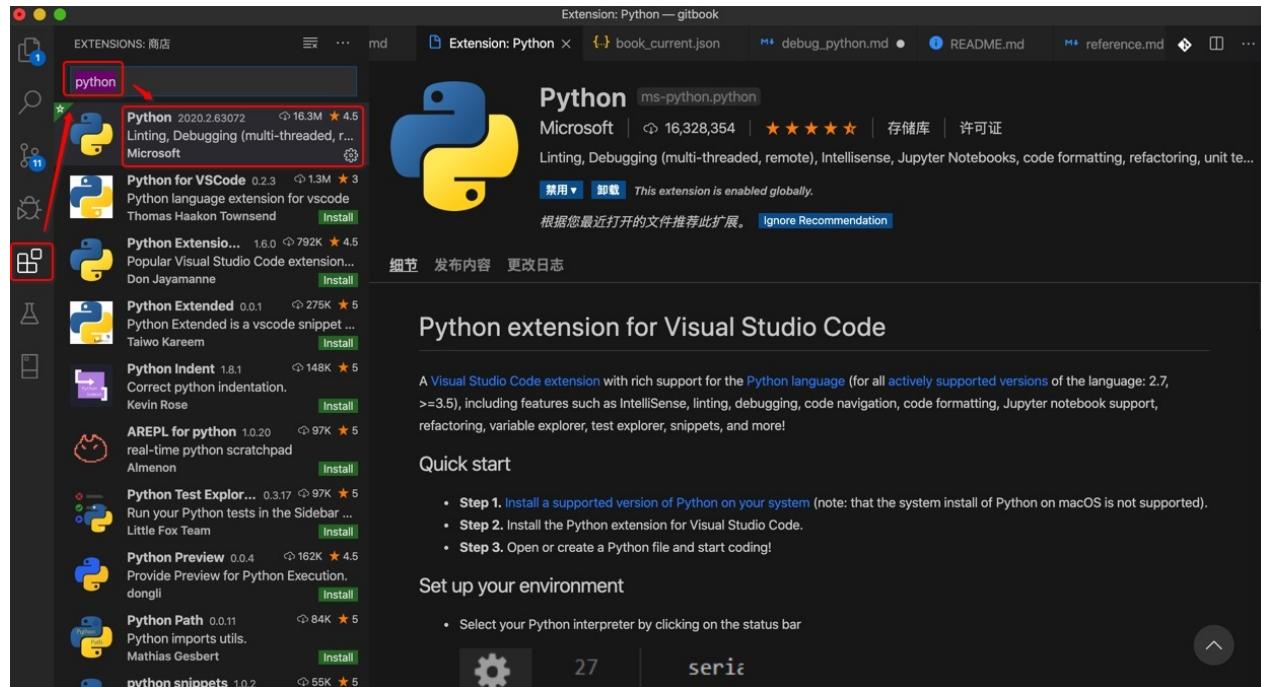
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# Mac中用VSCode调试Python

下面以Mac中为例，详细解释如何用VSCode去调试Python：

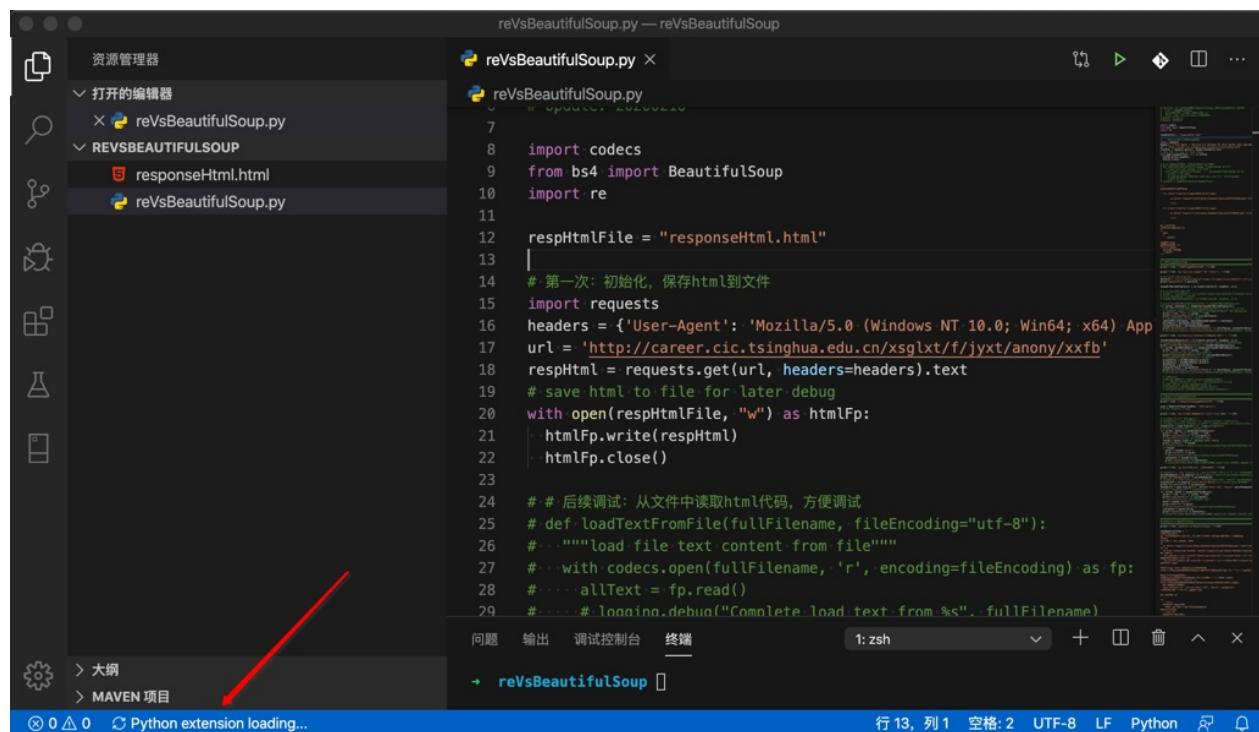
## 安装Python插件

在插件中输入 `Python`，然后点击第一个匹配出来的插件中的 `Install` 安装即可，安装后：

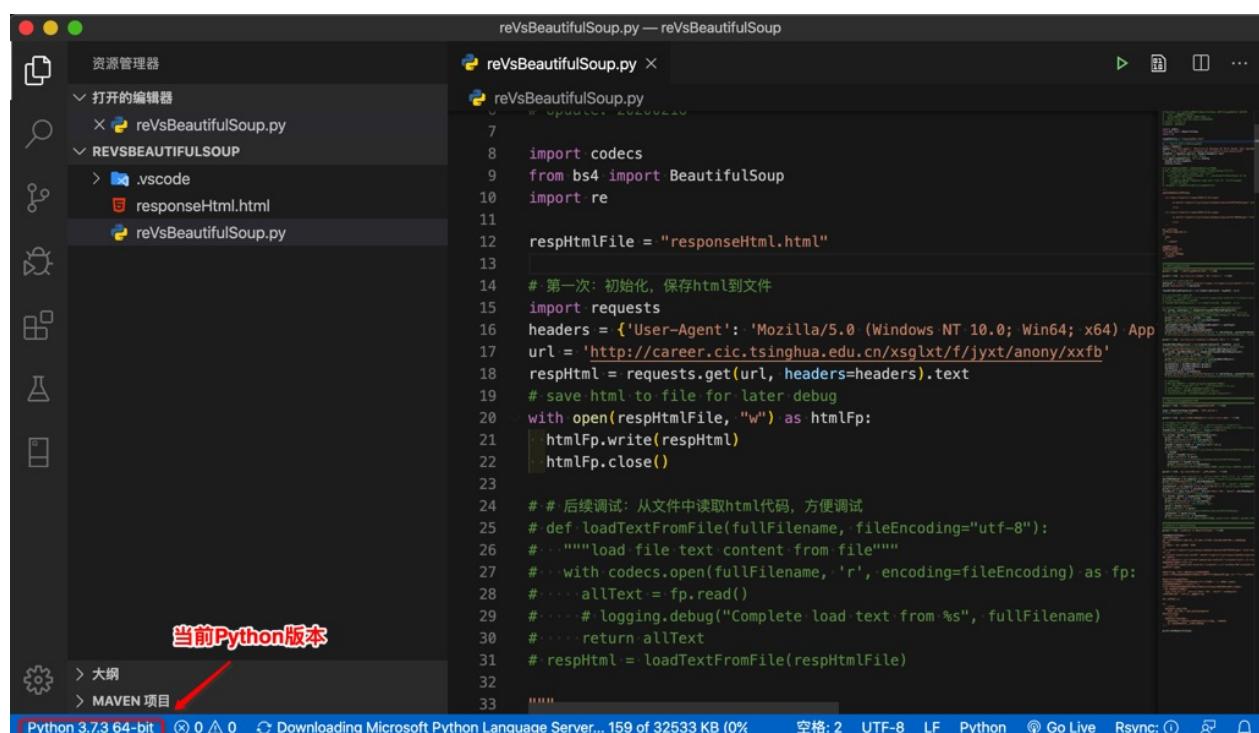


## 选择Python版本

每次用VSCode打开了Python项目后，左下角会出现： `Python extension loading`



表示正在加载Python插件，加载完毕后，左下角就会显示出某个版本的Python：



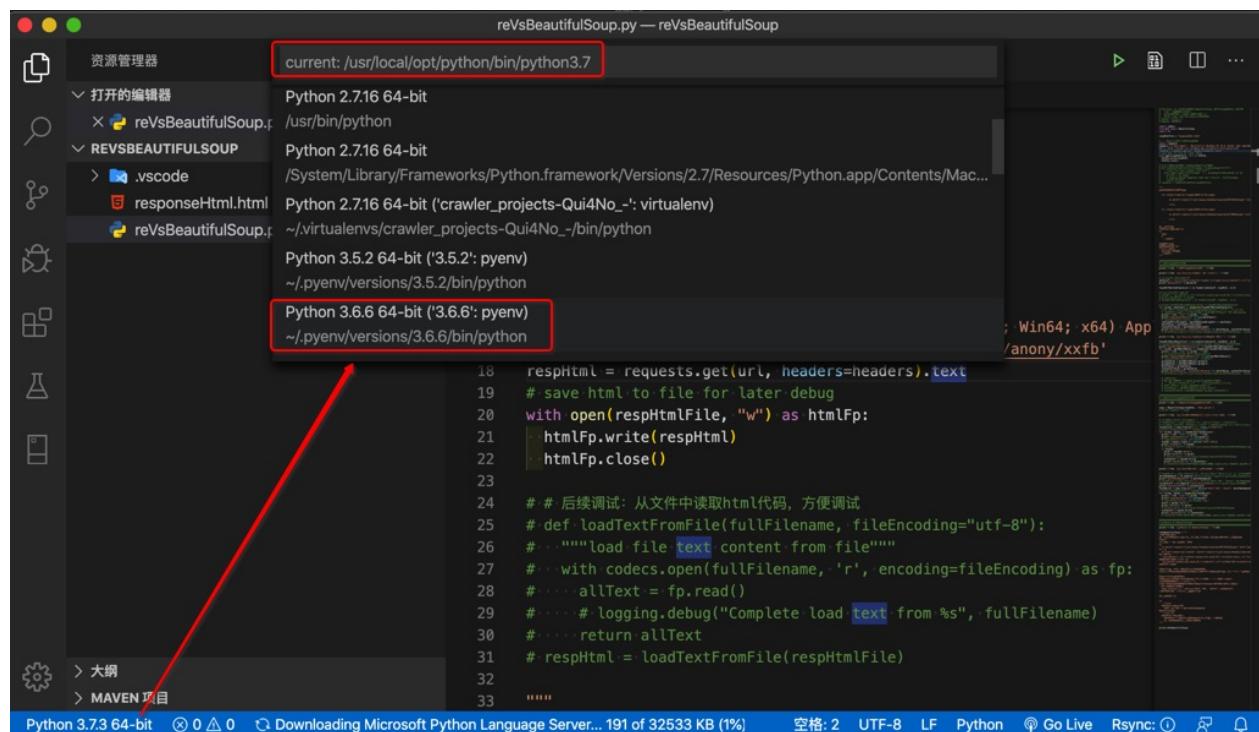
其含义是：当前项目所用的Python版本，此处是 Python 3.7.364-bit

意味着，后续调试Python代码，就是用的这个Python版本。

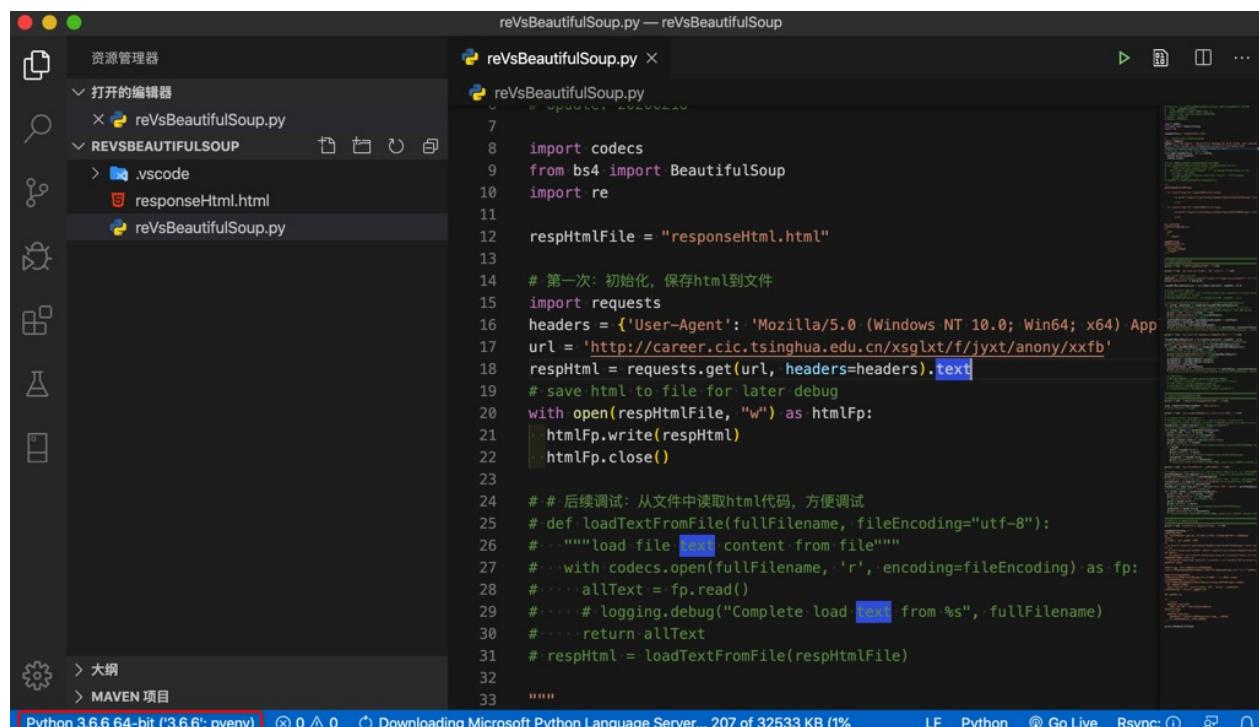
如果这个版本不是你所希望的，则就需要：

选择Python版本 = 切换Python版本 = 设置Python解析器 = 设置Python虚拟环境（如果你用的是某个Python虚拟环境）

假如我此处，之前系统中有安装过另外的版本的 Python 3.6.6 64-bit，想要使用该版本，则点击左下角，会弹出列表，选择对应的版本



然后做下角即可显示你切换后的 Python 3.6.6 64-bit :



至此已切换成你要的Python版本了。

## 启动调试和调试配置

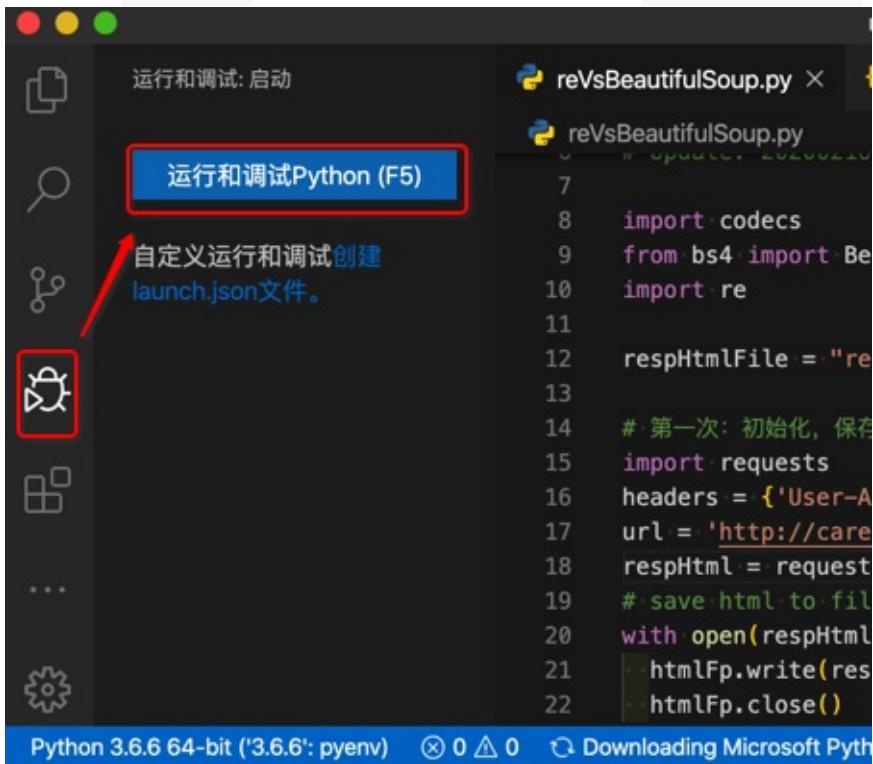
由于关系密切，此处把 启动调试 和 调试配置 放在一起解释。

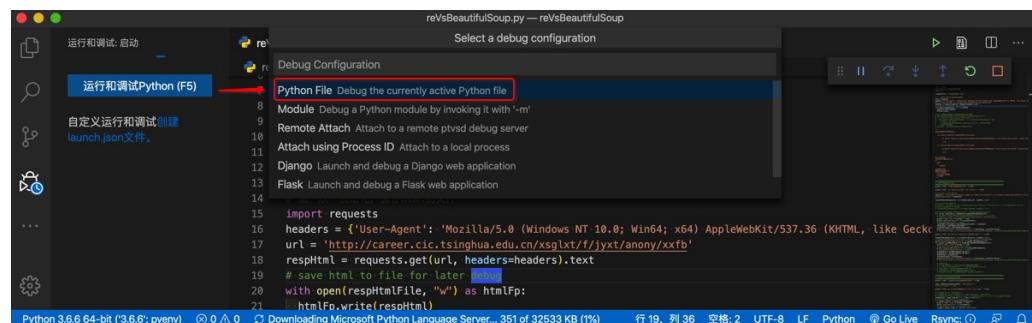
### 启动调试

启动调试的有多种方式，效果都是一样的：

- 快捷键： F5

- 菜单： 调试 -> 启动调试 F5

- - 通过 运行和调试 的tab页去调试
    - (第一次) 没有 `launch.json` 配置文件： (会有) 可以点击大按钮： 运行和调试Python (F5)
- 
- 自定义运行和调试创建 `launch.json` 文件。
- ```
reVsBeautifulSoup.py
reVsBeautifulSoup.py
7
8 import codecs
9 from bs4 import Be
10 import re
11
12 respHtmlFile = "re
13
14 # 第一次：初始化，保存
15 import requests
16 headers = {'User-A
17 url = 'http://care
18 respHtml = request
19 # save html to fil
20 with open(respHtml
21     htmlFp.write(res
22     htmlFp.close()
```
- Python 3.6.6 64-bit ('3.6.6': pyenv) ⚡ 0 △ 0 🔄 Downloading Microsoft Python
- 注：且点击后，每次都要选择调试的类型
 - 一般最常用的就是： Python File



- 表示去调试当前的Python文件
- 已有 `launch.json` 配置文件：有个绿色启动按钮和调试类型选项
 - 也可以点击绿色调试按钮去调试了
 - 下面就是要去详细解释这部分内容

调试配置

开始调试之前，需要设置和添加好调试的配置。

对于调试的配置，或者说调试的类型的使用，一般有2种：

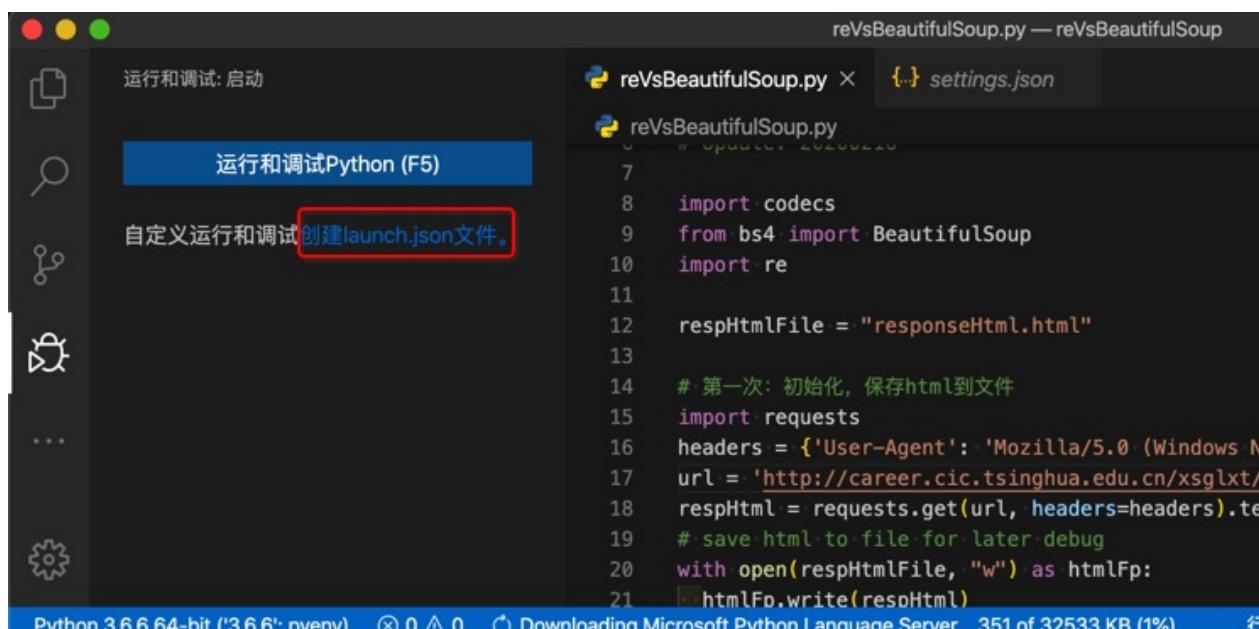
- 常用：一劳永逸型
 - 即：设置一次，每次都无需再设置
 - 在项目根目录中创建 `./vscode/launch.json` 配置文件
 - 在其中加上对应的配置
- 不太常用：每次都选择型
 - 即：不创建 `launch.json` 配置文件，每次启动都选择一次调试类型
 - 也就是上面已解释过的：
 - 点击 `运行和调试Python (F5)`
 - 选择调试类型
 - -> 很麻烦，不太推荐

所以此处主要去解释：

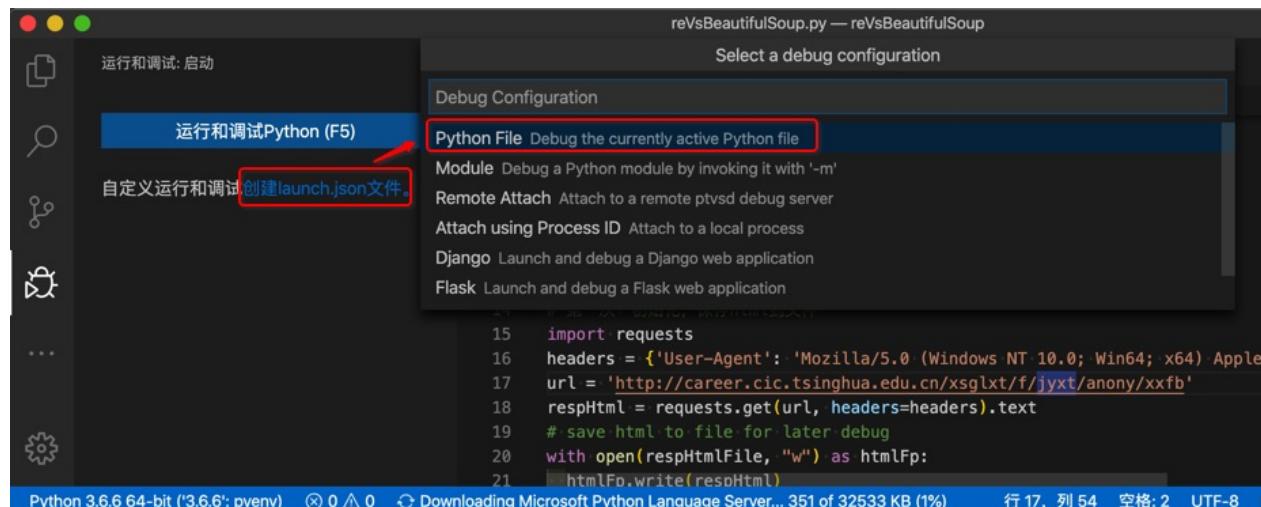
一劳永逸型：创建`launch.json`配置

自己手动在当前项目根目录下创建 `./vscode/launch.json` 配置文件

或者点击 创建`launch.json`文件：



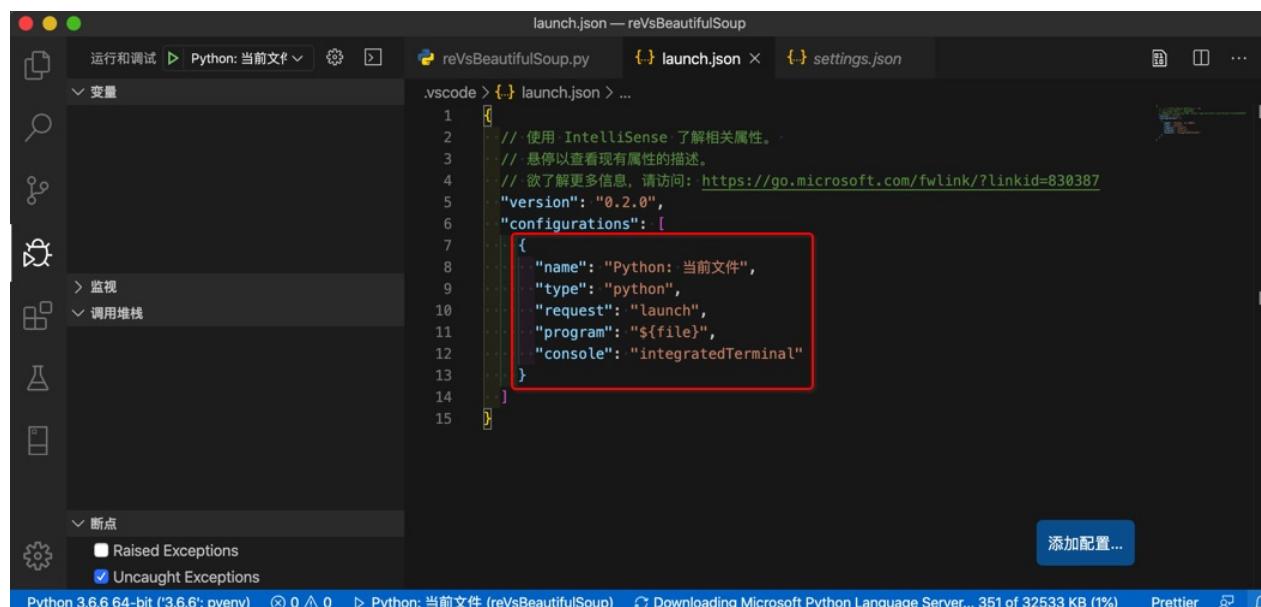
然后选择： Python File



会自动创建调试的配置文件 `./vscode/launch.json`，并根据你前面所选择的调试类型 `Python File` 而生成对应的调试配置：

```
{
    // 使用 IntelliSense 了解相关属性。
    // 悬停以查看现有属性的描述。
    // 需要了解更多信息，请访问: https://go.microsoft.com/fwlink/?LinkId=830387
    "version": "0.2.0",
    "configurations": [
        {
            "name": "Python: 当前文件",
            "type": "python",
            "request": "launch",
            "program": "${file}",
            "console": "integratedTerminal"
        }
    ]
}
```

效果是：

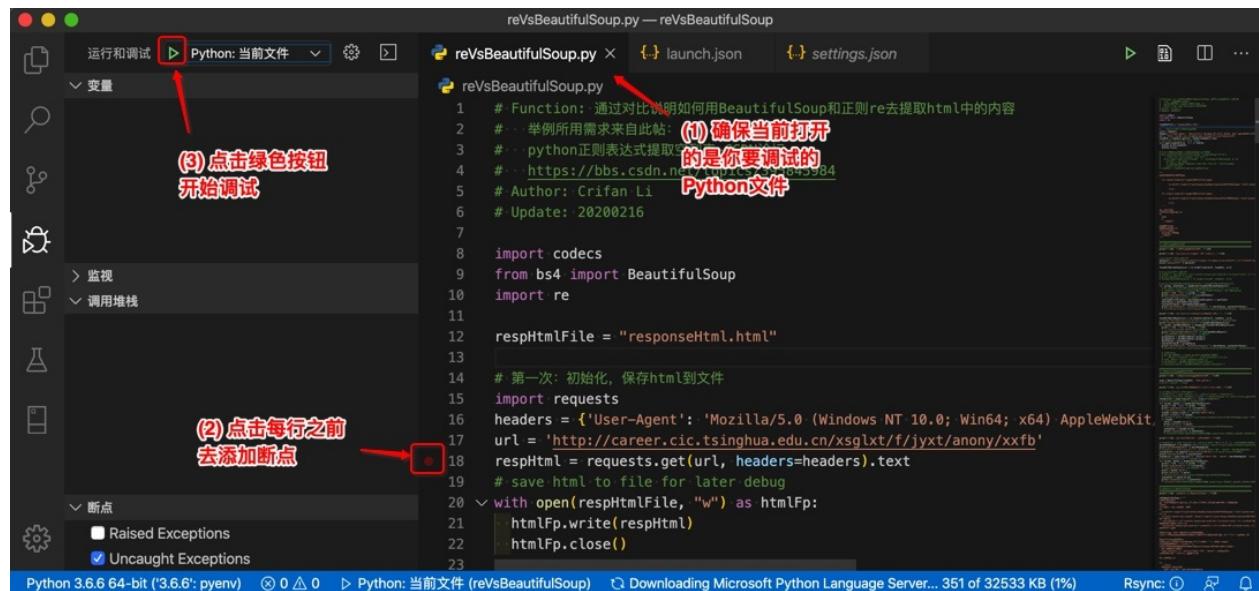


如此，就是创建完毕调试配置文件了。

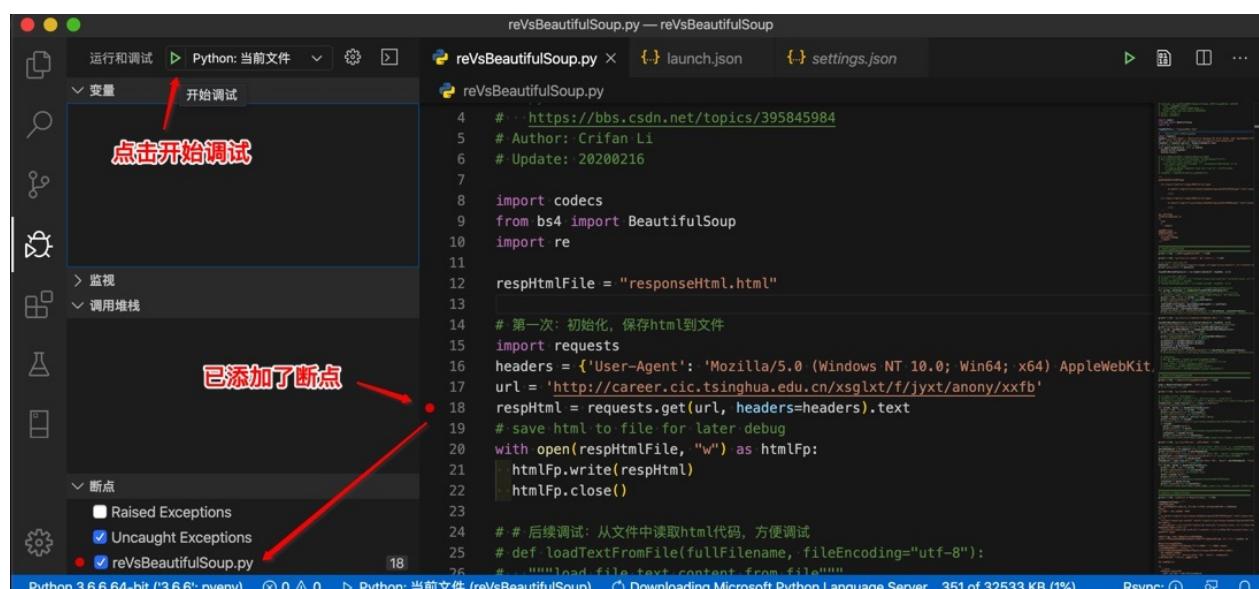
之后就是去调试了：

1. 确保VSCode当前打开的是你要调试的Python文件
2. 点击每行之前去添加断点

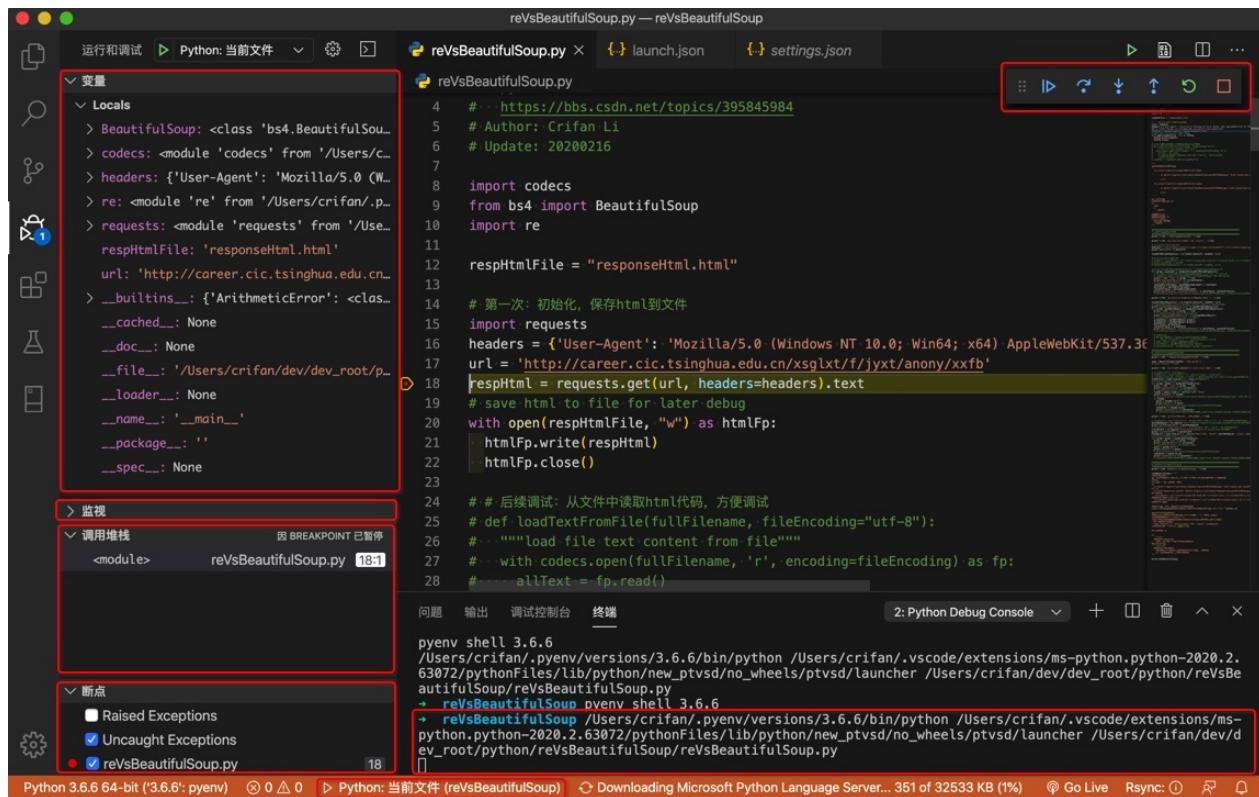
3. 点击绿色的调试按钮▶去开始调试



添加了断点后，可以看到左下角出现了断点的文件名和行号，再去点击开始按钮▶去调试：



然后就可以看到，正在调试的界面和效果了：

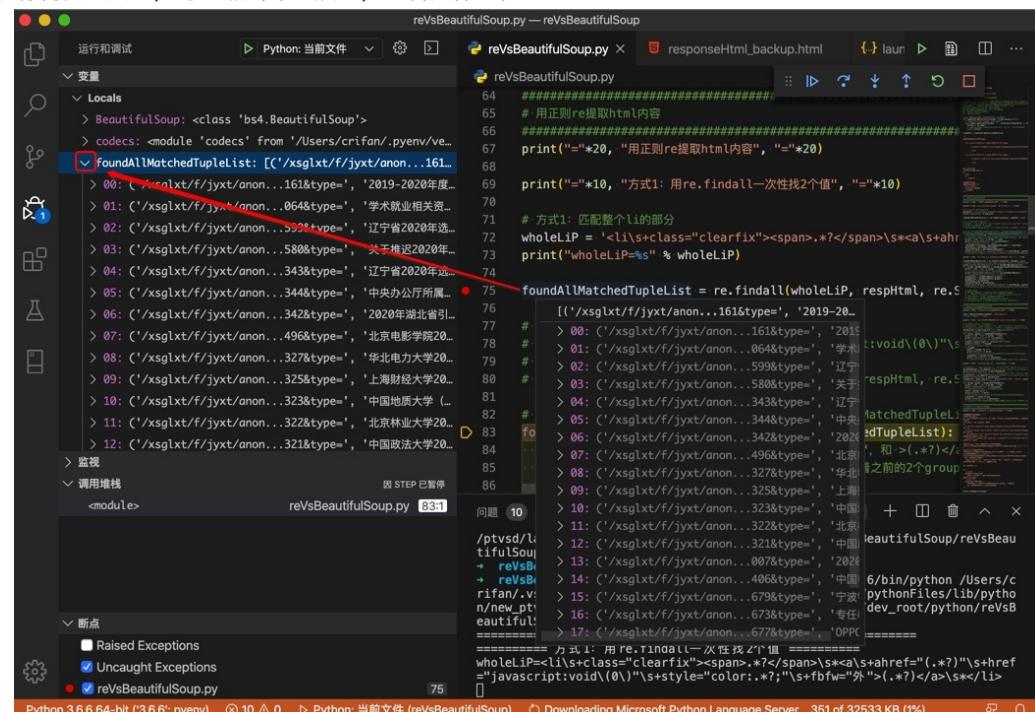


调试界面中的几个区域和对应功能，分别解释一下：

- 左边

- 变量

- 显示当前的各种变量值
 - 对于有属性的变量，可以点击绿色按钮，查看具体的值



- 监视Evaluation

- 可以输入变量表达式，查看结果

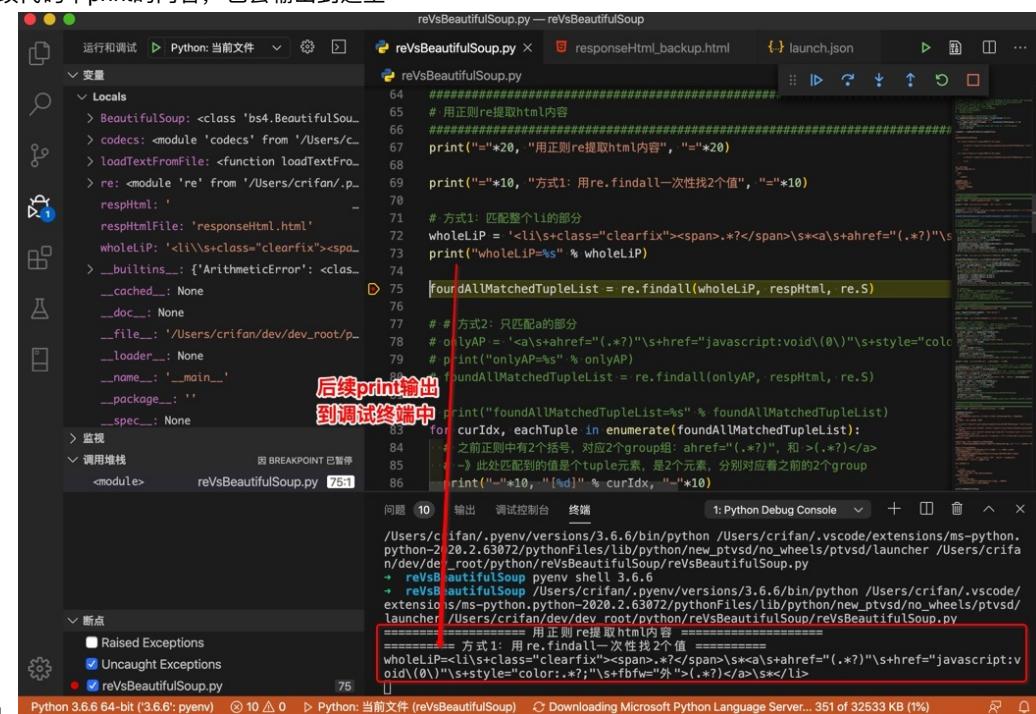
- 调用堆栈

- 查看文件调用的先后顺序

- 在代码报错时，尤其有用

- 知道出错时，文件调用的先后顺序，才容易找出错误位置和原因
 - 断点
 - 之前自己添加的所有的断点
 - 2个选项：属于高级功能
 - Raised Exceptions=抛出的异常
 - 调试期间代码发生异常exception时，代码执行就会暂停
 - 就像打了断点的效果一样
 - 即使你代码中用try except去捕获了异常，发生了异常，也会暂停
 - Uncaught Exceptions=未捕获的异常
 - 调试期间，代码中没有捕获到的异常，即没有try except对应异常，则此时就会暂停
 - 右上角
 - 调试工具条
 - 继续(F5)
 - 单步跳过(F10)
 - 单步调试(F11)
 - =单步进入
 - 单步跳出(Shift+F11)
 - 重启(Shift+Command+F5)
 - 停止(Shift+F5)
 - 右下角
 - 调试输出
 - 最开始会输出，启动调试时所用的命令
 - 此处是

- /Users/crifan/.pyenv/versions/3.6.6/bin/python /Users/crifan/.vscode/extensions/ms-python.python-2020.2.63072/pythonFiles/lib/python/new_ptvsd/no_wheels/ptvsd/launcher /Users/crifan/dev/dev_root/python/reVsBeautifulSoup/reVsBeautifulSoup.py
 - /Users/crifan/.pyenv/versions/3.6.6/bin/python : 是当前所用的Python
 - /Users/crifan/.vscode/extensions/ms-python.python-2020.2.63072/pythonFiles/lib/python/new_ptvsd/no_wheels/ptvsd/launcher 是当前所用的启动器
 - /Users/crifan/dev/dev_root/python/reVsBeautifulSoup/reVsBeautifulSoup.py : 当前被调用的，被调试的Python文件
 - 后续代码中print的内容，也会输出到这里



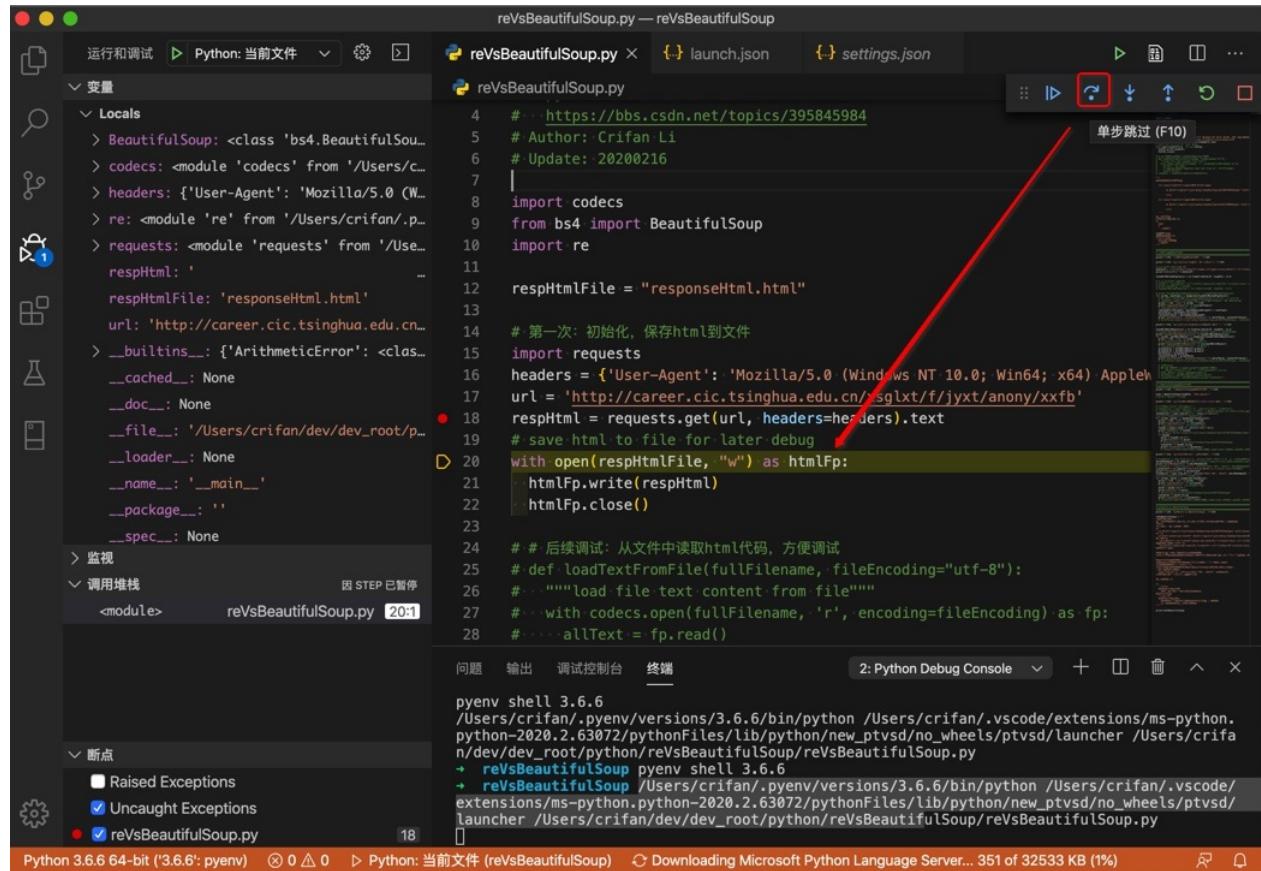
然后继续正常调试

开始调试

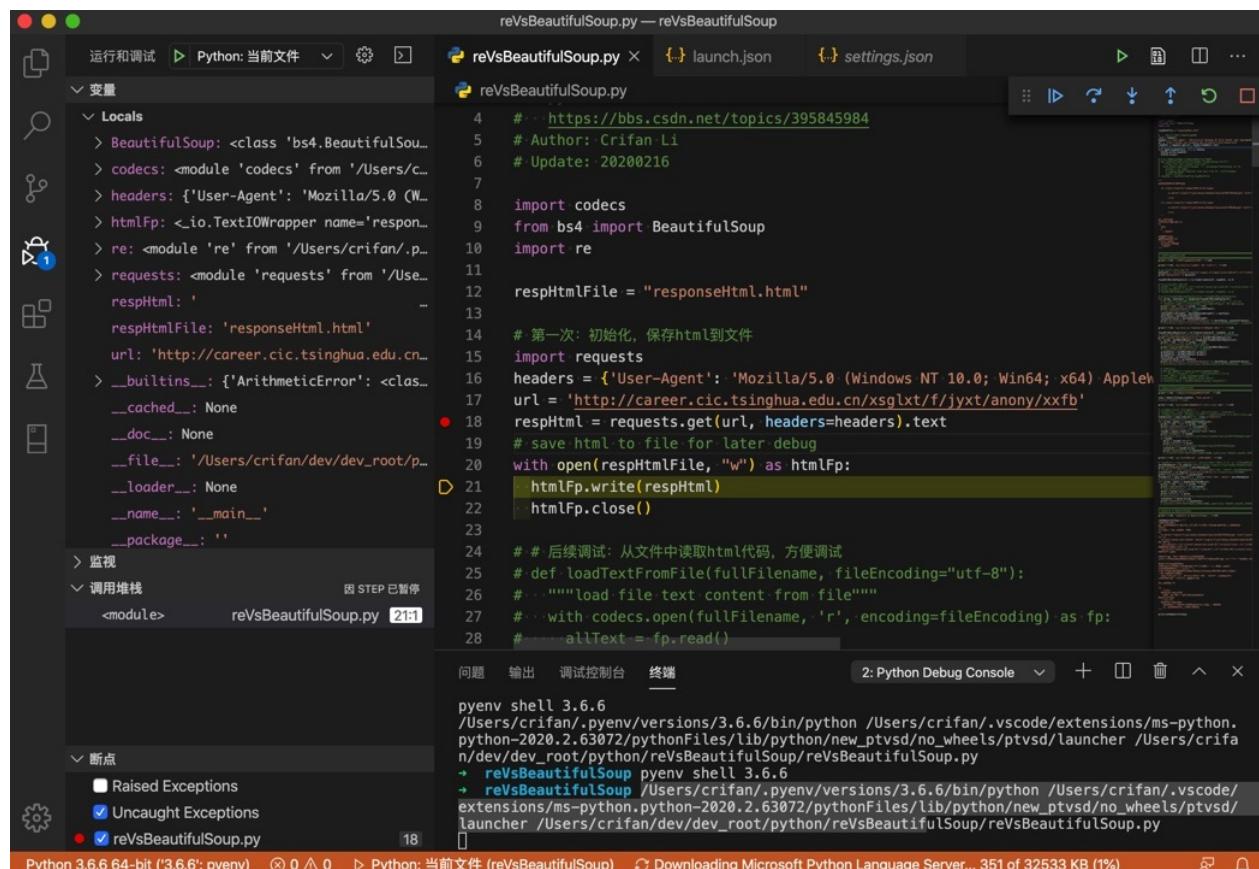
开始了调试之后，就可以继续正常调试了。

单步跳过(F10)

继续按 F10 或点击调试工具栏中的按钮，即可运行当前代码，然后进入下一行并暂停了：

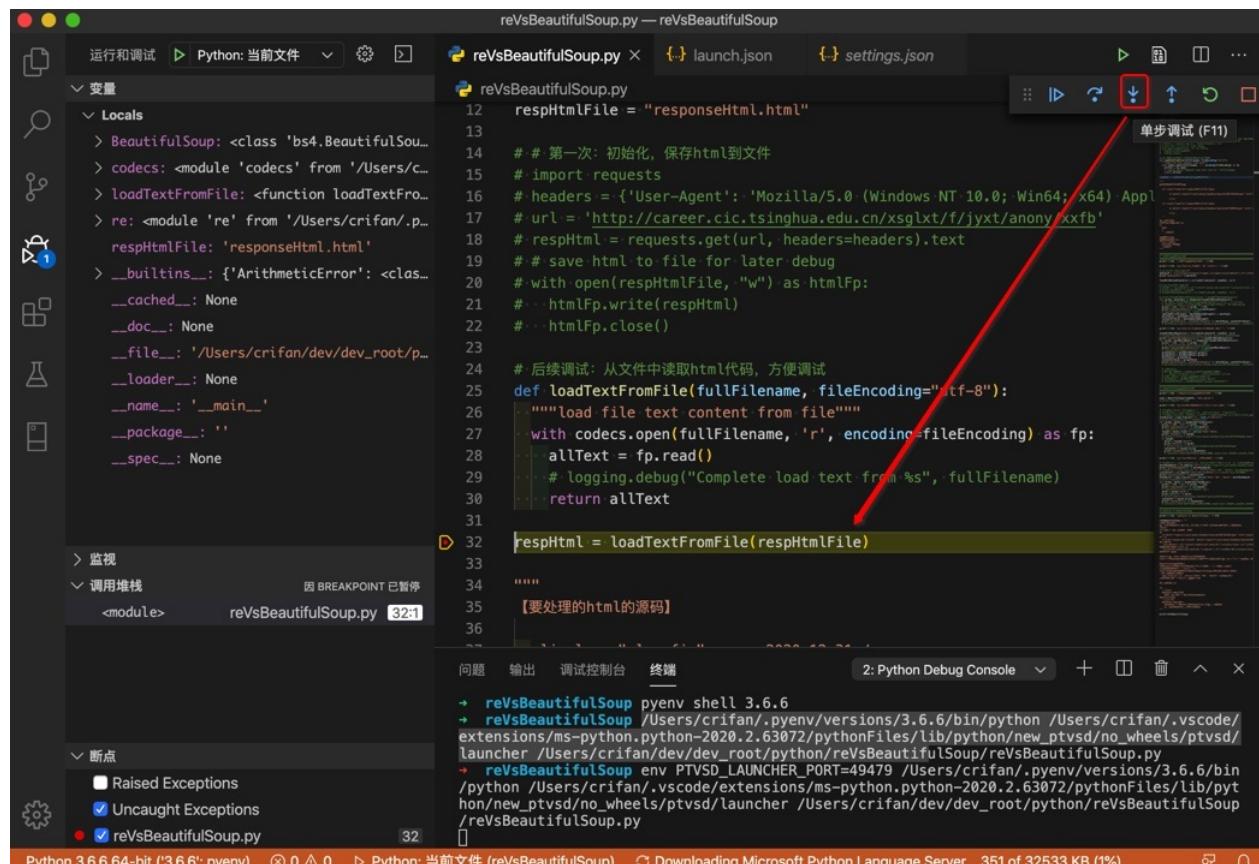


如此，继续一直 F10 单步调试即可：

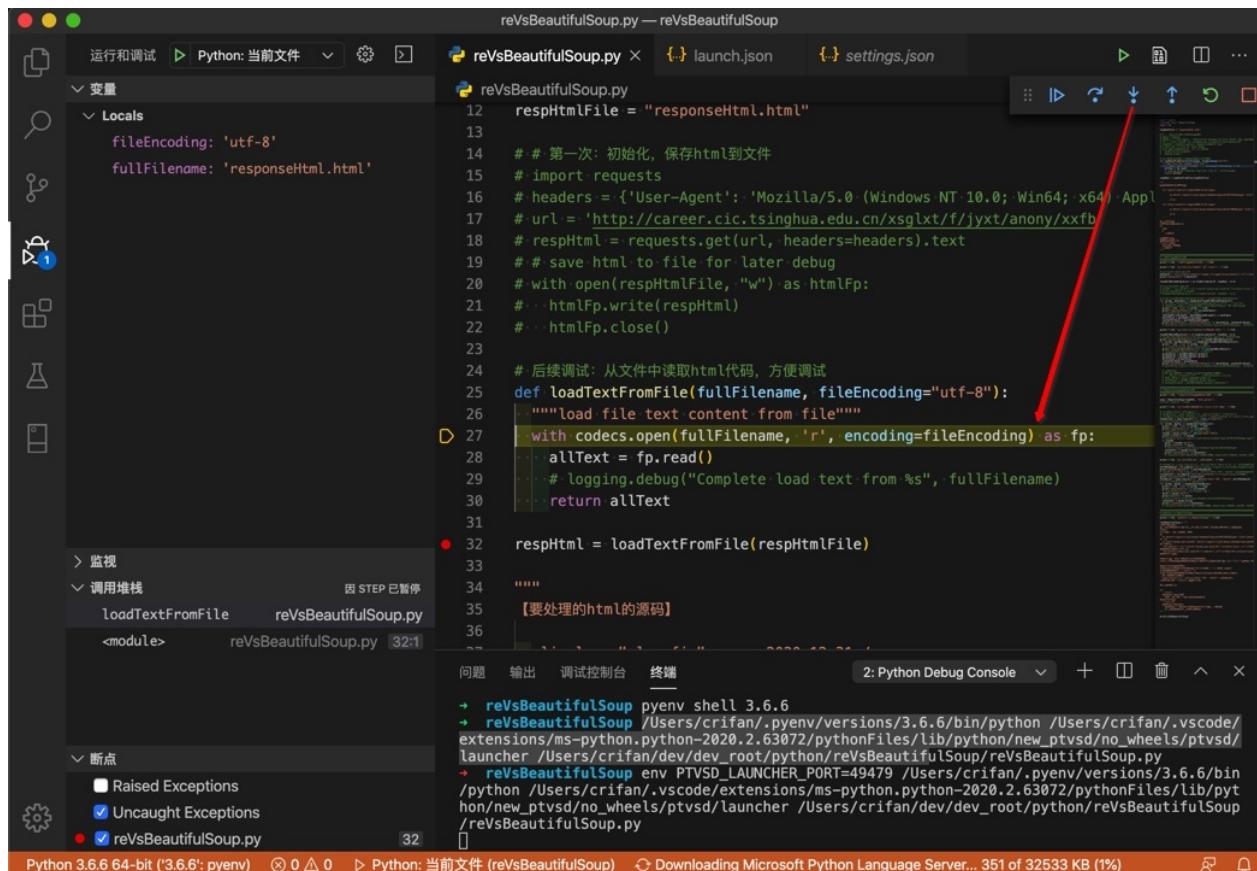


单步调试(F11)

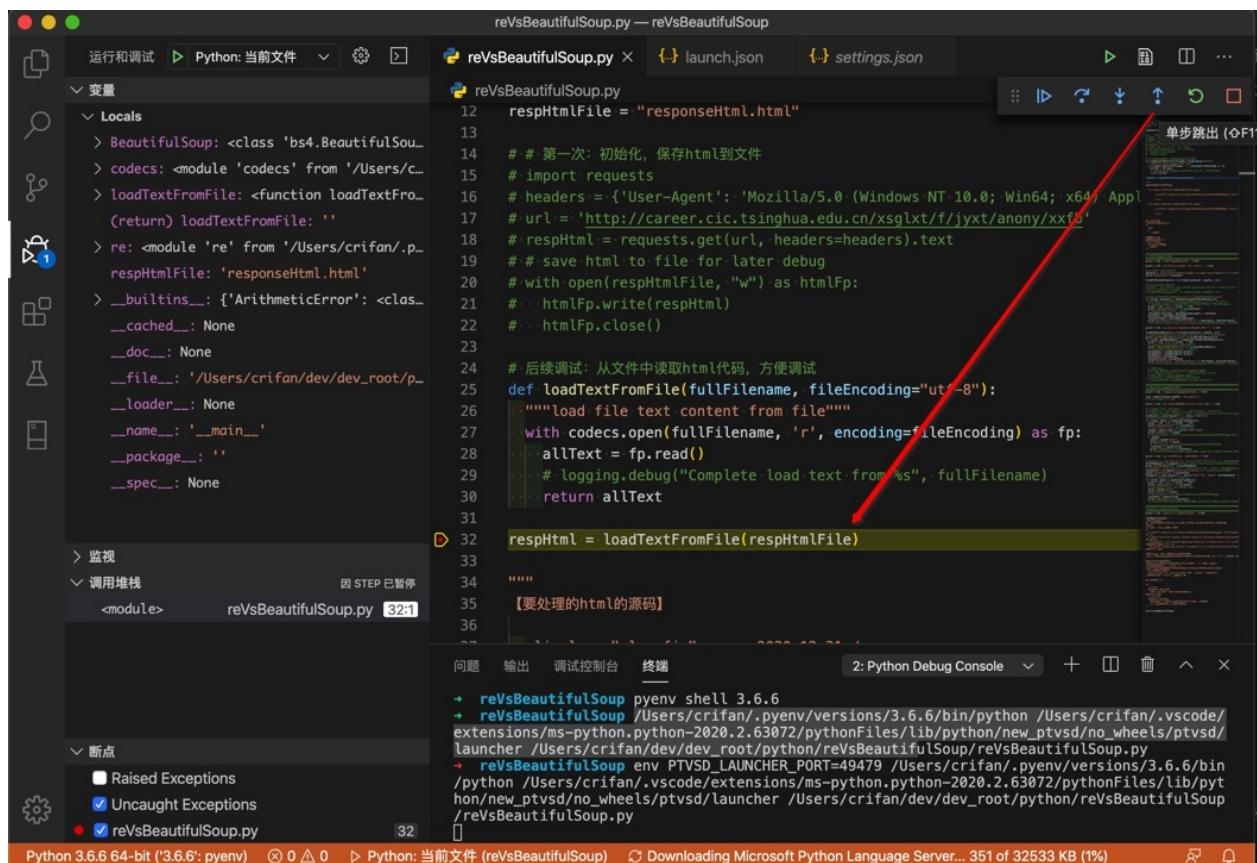
而对于如果遇到函数调用：



则可以用 F11 单步进入该函数中去调试：



而对应的 Shift+F11 是去跳出当前执行的范围，此处即跳出当前函数，即让当前函数返回：



之后即可继续调试。

F5=继续调试

如果调试发现前面代码没问题，那么就可以让其继续运行

就可以F5继续调试，直到新的断点才暂停：

The screenshot shows the VSCode interface with the Python extension loaded. A breakpoint is set at line 91 of the file `reVsBeautifulSoup.py`. The code uses regular expressions to parse HTML. The 'Variables' sidebar shows local variables like `BeautifulSoup`, `headers`, and `htmlfp`. The 'Breakpoints' section in the bottom-left shows that the 'Uncaught Exceptions' checkbox is selected. The 'Output' tab in the bottom right shows the Python debug console output.

```

reVsBeautifulSoup.py — reVsBeautifulSoup
reVsBeautifulSoup.py X responseHtml_backup.html { launch.json
77 # # 方式2: 只匹配a的部分
78 # onlyAP = '<a\s+href=(.*?)>\s+href="javascript:void(0)"\s+style="color:.*?;'.*
79 # print("onlyAP=%s" % onlyAP)
80 # findAllMatchedTupleList = re.findall(onlyAP, respHtml, re.S)
81
82 # print("findAllMatchedTupleList=%s" % findAllMatchedTupleList)
83 for curIdx, eachTuple in enumerate(findAllMatchedTupleList):
84     # 之前正则中有2个括号, 对应2个group组: a href="(.*)", 和 >(.*)</a>
85     # -> 此处匹配到的值是个tuple元素, 是2个元素, 分别对应着之前的2个group
86     print("-%d" % curIdx, "-%10")
87     print("type(eachTuple)=%s" % type(eachTuple))
88     # type(eachTuple)=<class 'tuple'>
89     (matchedFirstGroupStr, matchedSecondGroupStr) = eachTuple
90     ahrefValue = matchedFirstGroupStr
91     contentStrValue = matchedSecondGroupStr
92     print("ahrefValue=%s, contentStrValue=%s" % (ahrefValue, contentStrValue))
93     # ahrefValue=xsglx/f/jyxt/anony/showZwxx?zpxid=104719161&type=, contentStrValue=
94
95 print("=%10, "方式2: 用re.findall找, 支持更多可能性", ="%10)
96
97 findAllMatchObjectList = re.finditer(wholeLiP, respHtml, re.S)
98 # findAllMatchObjectList=<callable_iterator object at 0x10f4274e0>
99 print("findAllMatchObjectList=%s" % findAllMatchObjectList)
100 for curIdx, eachMatchObject in enumerate(findAllMatchObjectList):
101     print("-%d" % curIdx, "-%10)

```

hon/new_ptvsd/no_wheels/ptvsd/launcher /Users/crifan/dev/dev_root/python/reVsBeautifulSoup/reVsBeautifulSoup.py
=====
===== 用正则re提取html内容 =====
===== 方式1: 用re.findall一次性找2个值 =====
wholeLiP=<lis><class='clearfix'>.*?\s*<a>\s+href="(.*)"\s+href="javascript:void(0)"\s+style="color:.*?;".*\s+fbfw="外">(.*)>\s*
[0]
type(eachTuple)=<class 'tuple'>

如果后续没有断点，则程序运行完毕，自动停止运行：

The screenshot shows the VSCode interface with the Python extension loaded. There are no active breakpoints. The code in `reVsBeautifulSoup.py` is identical to the previous screenshot. The 'Variables' sidebar shows local variables. The 'Breakpoints' section in the bottom-left shows that the 'Raised Exceptions' and 'Uncaught Exceptions' checkboxes are selected. The 'Output' tab in the bottom right shows the Python debug console output, which includes a detailed description of BeautifulSoup's performance.

```

re
性能: 好
支持html程度: 有限
仅限于不是很复杂的, 比较规整的html
BeautifulSoup
性能: 中等
支持html程度: 很好
不仅支持复杂的html, 还支持html内部元素和位置变化
对于不规范的html也有很好的支持

+ reVsBeautifulSoup []

```

re
性能: 好
支持html程度: 有限
仅限于不是很复杂的, 比较规整的html
BeautifulSoup
性能: 中等
支持html程度: 很好
不仅支持复杂的html, 还支持html内部元素和位置变化
对于不规范的html也有很好的支持

重启(Shift+Command+F5)

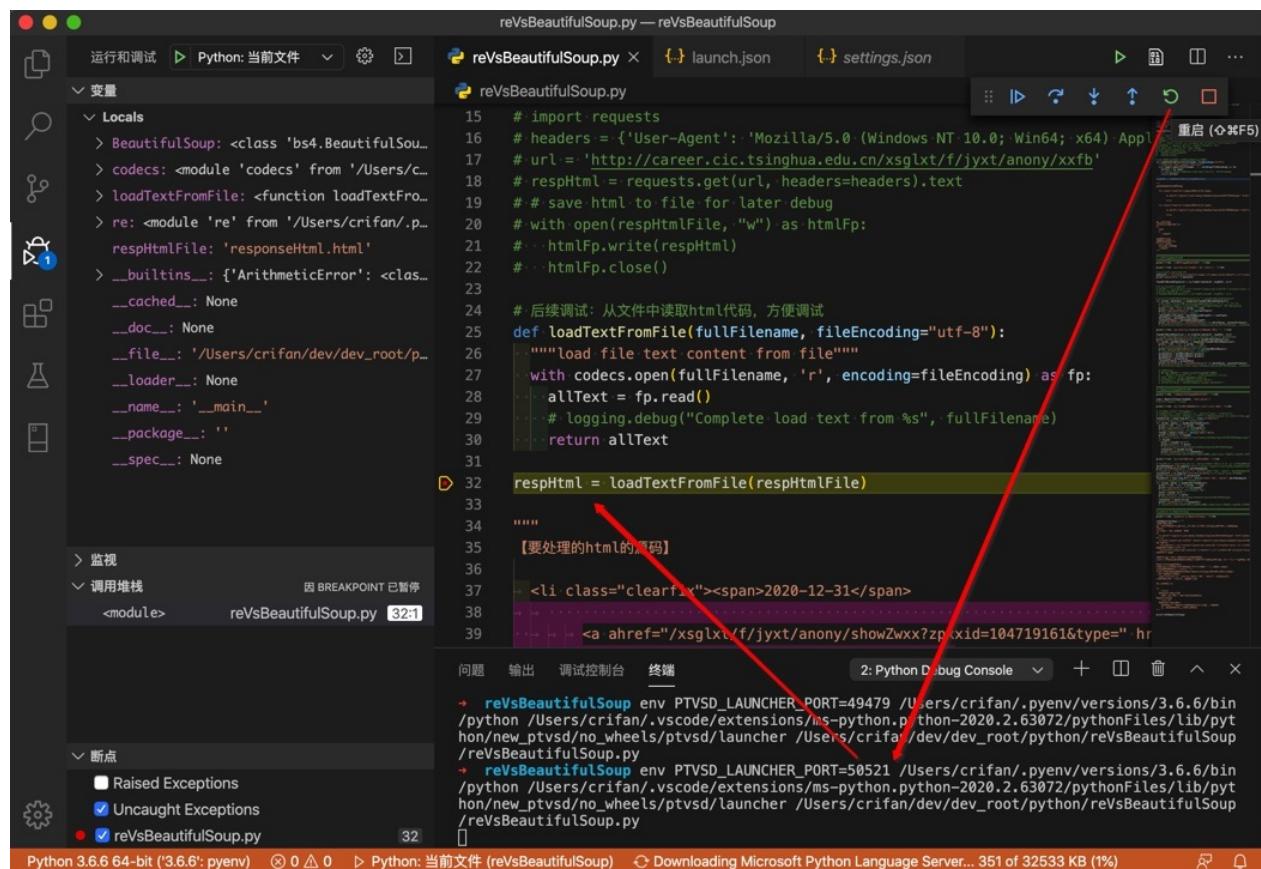
对于重启调试，一般能用到的场合是：

调试期间，错过了想要查看的内容。

或者是调试期间，发现代码有问题，顺带在调试期间，就把代码改好了，然后就可以去

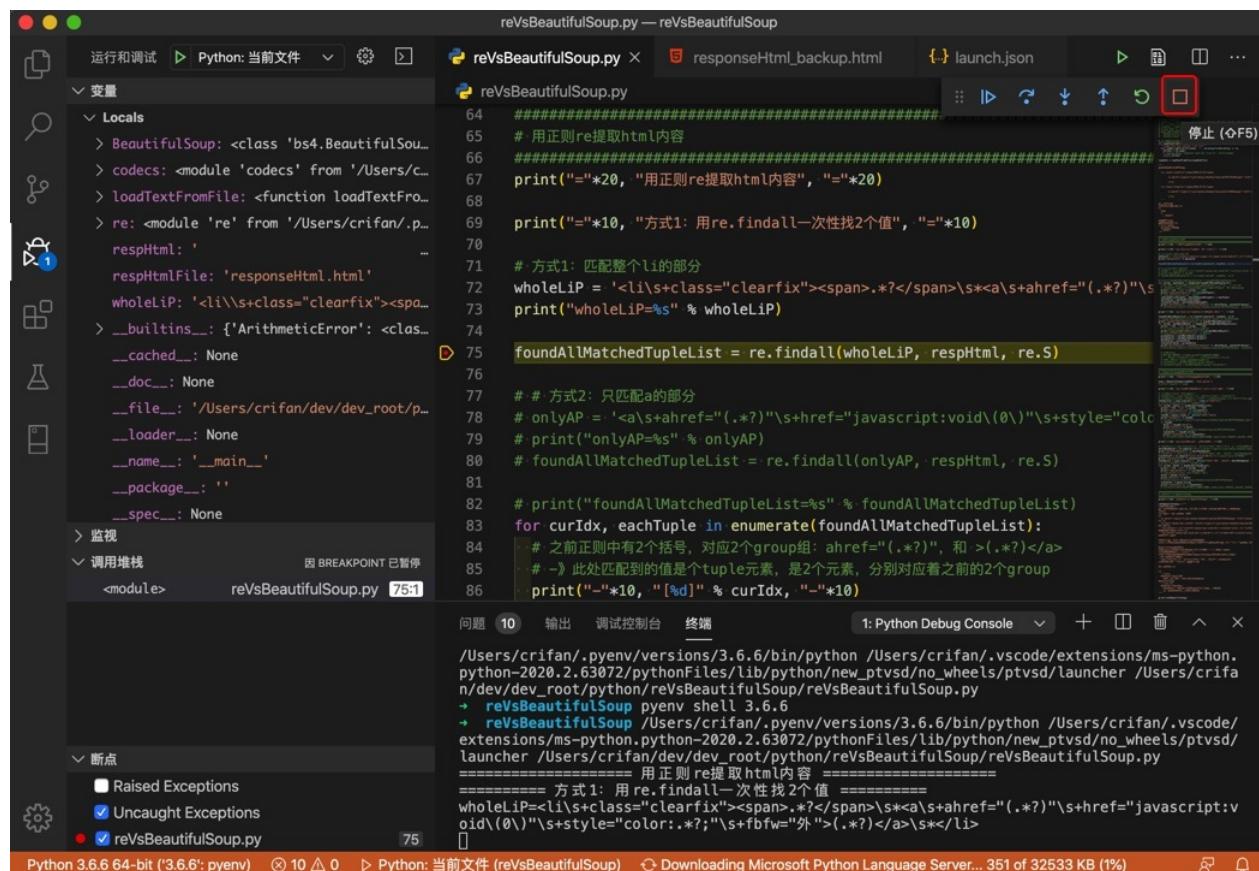
点击 重启，会让调试重新启动，并运行到（你所设置的断点）的位置

此处可以从终端的log看出，是重启启动了一次调试：



停止(Shift+F5)

如果不想要调试了，则可以点击停止：



即可停止调试。

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Windows中用VSCode调试Python

其实和前面已经详细解释的[Mac中调试Python](#)的步骤没区别。

但是为了别人更加方便参考，所以也专门整理如下：

- [【已解决】windows中安装VSCode](#)
- [【记录】Windows中新建VSCode的Python项目](#)
- [【记录】Windows中用VSCode去调试Python项目代码文件](#)

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经验心得

VSCode调试Python期间，有些需要注意的事情和一些心得，整理如下。

注意事项

不要轻易根据提示切换Python版本

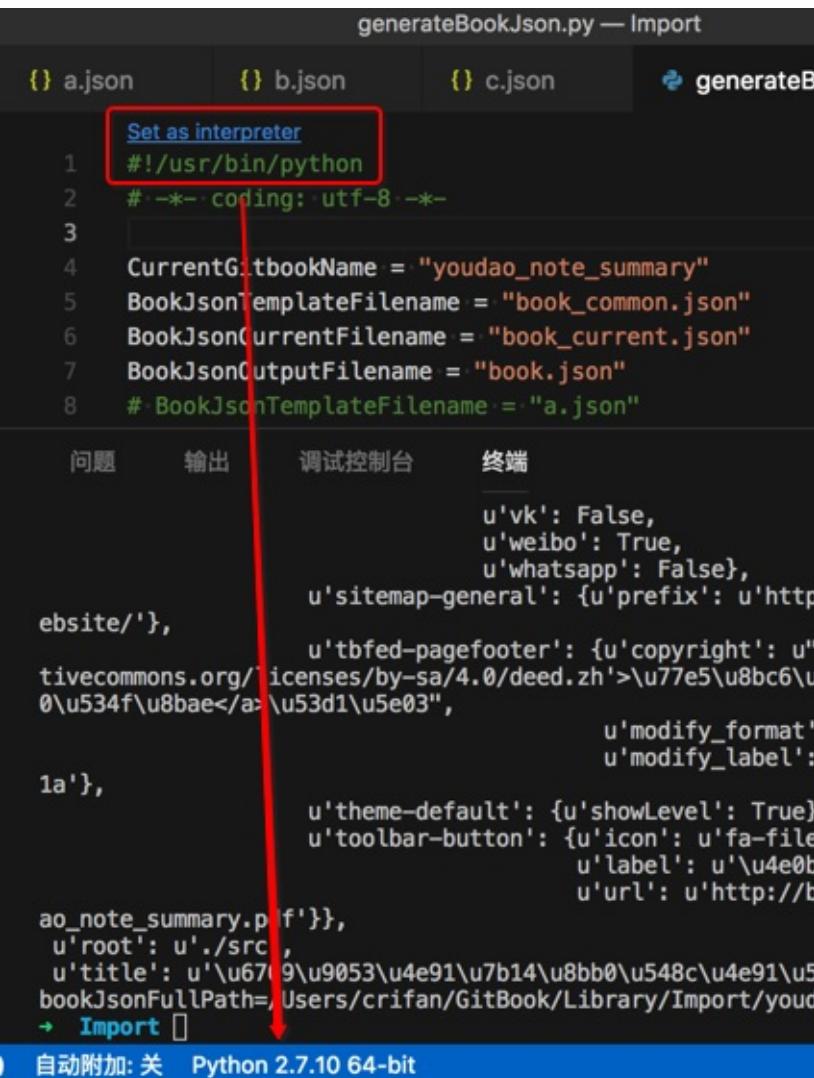
之前遇到python文件中顶部有常见的写法：

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

其中第一行是建议的Python解释器的位置

对此，VSCode的Python插件自动检测处理，然后给出提示 `Set as interpreter`

你如果点击了：



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

CurrentGitbookName = "youdao_note_summary"
BookJsonTemplateFilename = "book_common.json"
BookJsonCurrentFilename = "book_current.json"
BookJsonOutputFilename = "book.json"
BookJsonTemplateFilename = "a.json"

u'vk': False,
u'weibo': True,
u'whatsapp': False},
u'sitemap-general': {u'prefix': u'http://www.youdao.com',
u'tbfed-pagefooter': {u'copyright': u"Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License", u'link': u"http://creativecommons.org/licenses/by-nc/4.0/deed.zh"}, u'modify_format': u'modify_label': u'1a'},
u'theme-default': {u'showLevel': True}
u'toolbar-button': {u'icon': u'fa-file-text-o', u'label': u'\u4e0b\u4e89\u4e89\u4e89', u'url': u'http://book.youdao.com_note_summary.pdf'},
u'root': u'./src',
u'title': u'\u670d\u9053\u4e91\u7b14\u8bb0\u548c\u4e91\u5316', bookJsonFullPath=~/Users/crifan/GitBook/Library/Import/youdao_note_summary.pdf
+ 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/gi-
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\u540d-
0\u534f\u8bae</a>\u53d1\u5e03",
                               u'modify_format': u'YYYY-MM-DD HH:mm:ss',
                               u'modify_label': u'\u8be5\u6587\u4ef6\-
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\-
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 x
------------	------------	------------	-----------------------

```

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\uff0
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': './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

而这往往并不是你所想要的Python版本。

所以：还是要事先设置好自己想要的Python版本，而不要轻易（以为VSCode很智能，根据其提示）去更换了你的Python版本。

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*(?P<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+]+) tae"
241     # Sports - tae-kwon-do
242     topicMatch = re.search("(?P<topicLevel1>[\w\s]+)\s*([-| -])\s*(?P<topicLevel2>[\w\s]+)")
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, parent=topicLevel1)
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, topicLevel1)
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。

心得

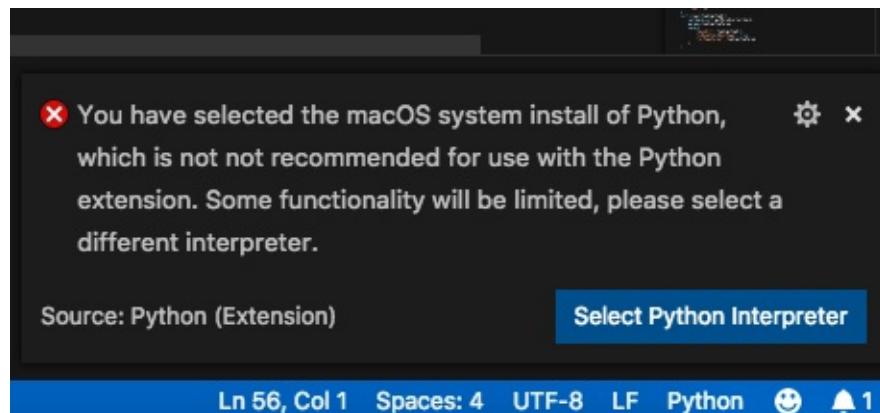
安装了虚拟环境后提示你切换到对应版本

对于某个Python项目，在：

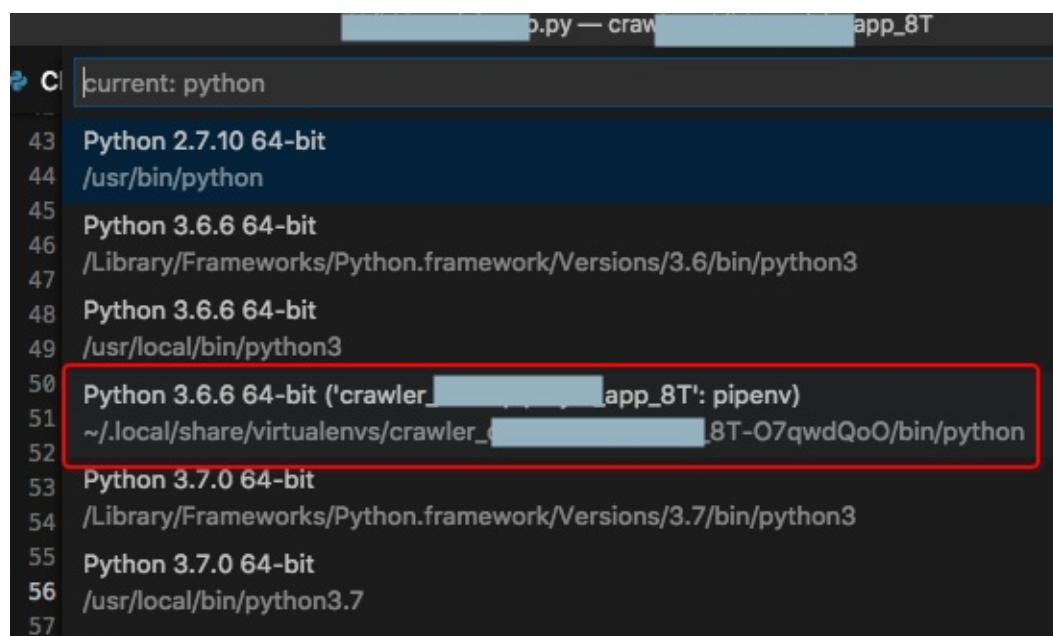
```
pipenv install
```

安装了虚拟环境后，重新用VSCode打开该项目，会提示你：

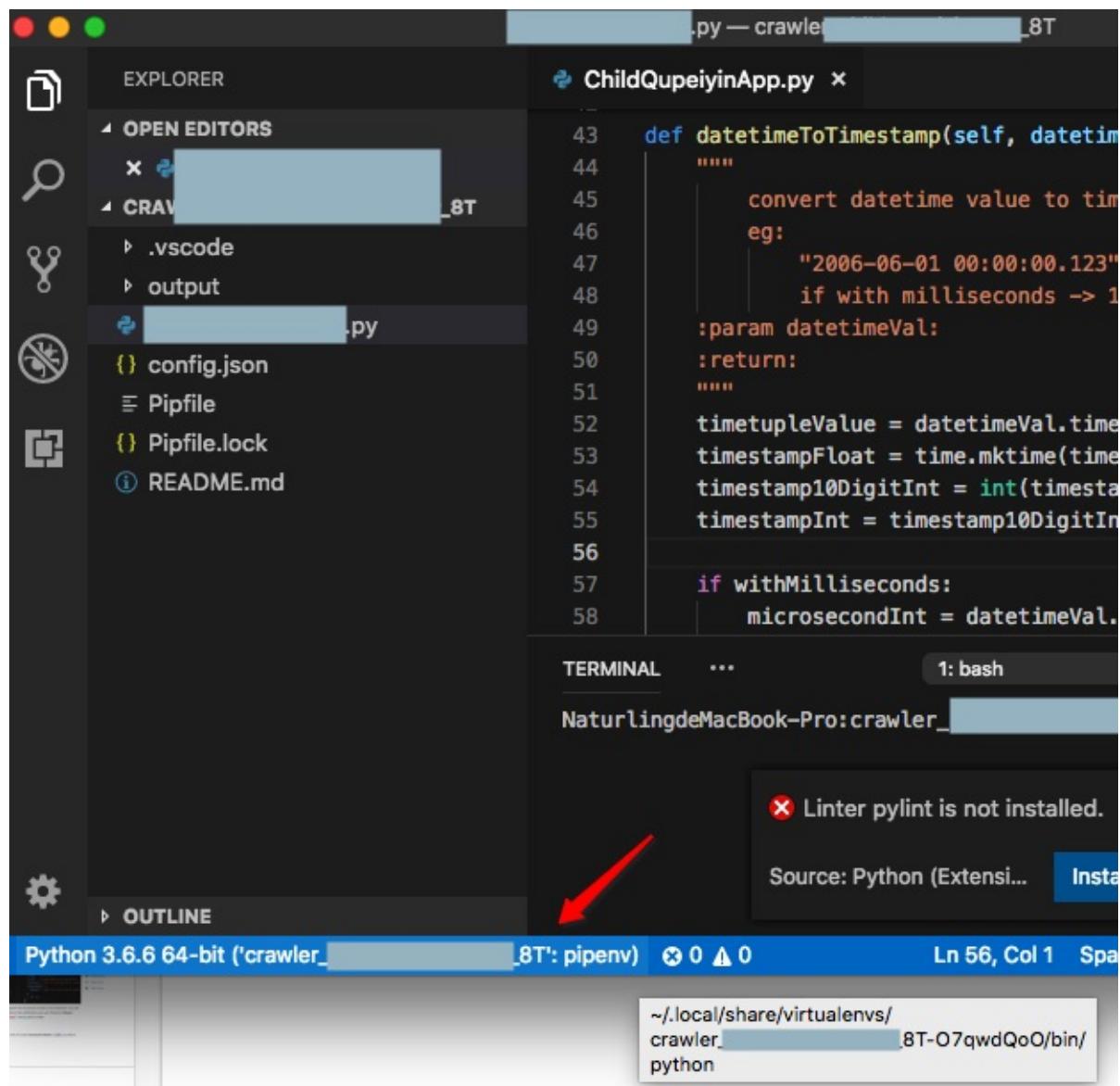
You have selected the macOS system install of Python, which is not recommended for use with the Python extension. Some functionality will be limited, please select a different interpreter.



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：



说明VSCode的Python插件还是很智能的，提示你新切换Python版本到你所安装的虚拟环境的版本。

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:

```

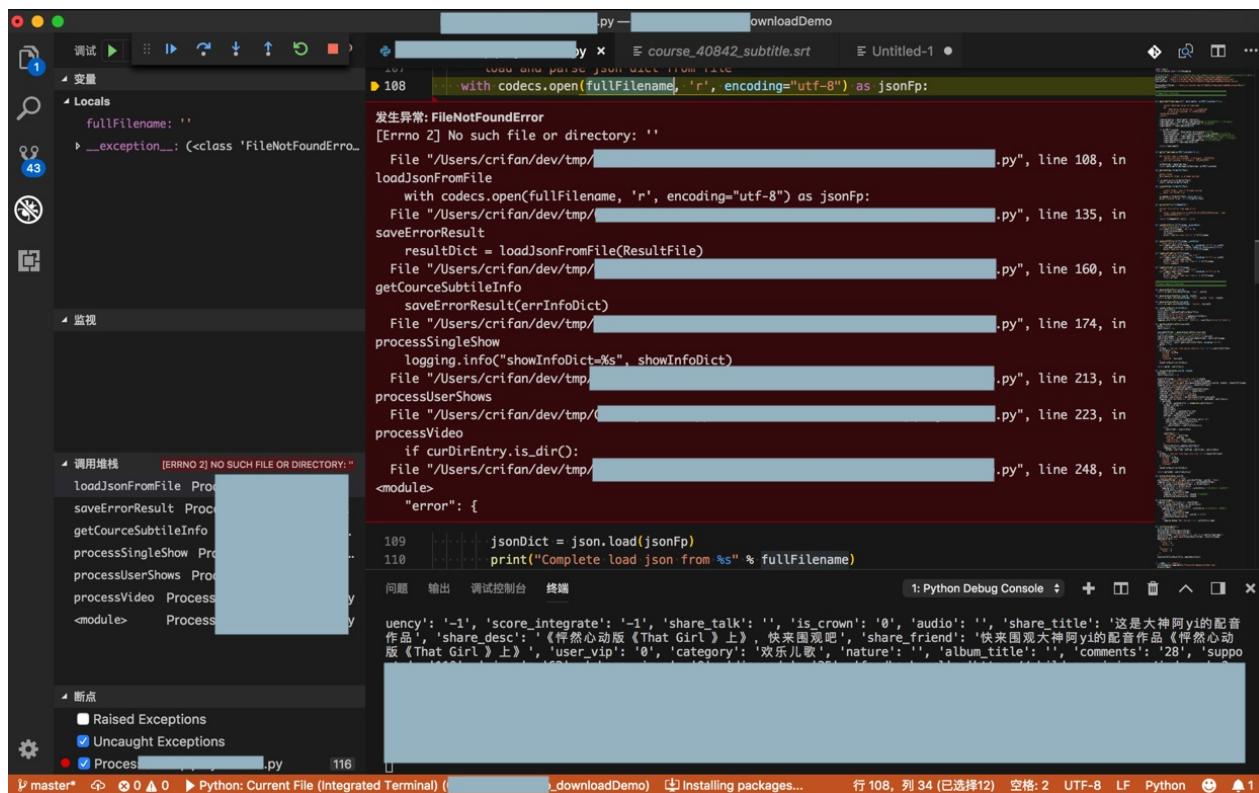
92     .return.
93     ....
94     timetupleValue = datetimeVal.timetuple()
95     timestampFloat = time.mktime(timetupleValue) # -> 10 digits
96     if withMilliseconds:
97         microsecondFloat = float(datetimeVal.microsecond)/float(1000000)
98         timestampFloat = timestampFloat + microsecondFloat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

```

ProcessChildqupeiyinVideo.py — ChildQuPeiYinApp_downloadDemo
ProcessChildqupeiyinVideo.py x course_40842_subtitle.srt Untitled-1 ...
122 #####1
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(f'After save error: total={resultDict["error"]["total"]}')
140
141 def getCourseSubtitleInfo(courseId):
142     defOK = 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)

调用堆栈 [ERRNO 2] NO SUCH FILE OR DIRECTORY: "loadJsonFromFile(ProcessChildqupeiyinVi...
saveErrorResult ProcessChildqupeiyinVi...
getCourseSubtitleInfo ProcessChildqupeiyin...
processSingleShow ProcessChildqupeiyinVi...
processUserShows ProcessChildqupeiyinVi...
processVideo ProcessChildqupeiyinVideo.py
<module> ProcessChildqupeiyinVideo.py
116

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 ☺ 1

```

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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 the VSCode interface with two tabs open. The left tab contains the content of 'invalidWords_20180702_091757—去除无效的.csv', which consists of many lines of text, mostly consisting of the string '5b0fa0e8d8d4e87251298e0f,TOO_MANY_INVALID_WORD,' followed by various sentences from a story. The right tab contains the content of 'invalidSentences_20180702_091757.csv', also showing many lines of text. The code editor has a dark theme, and the right margin shows a vertical scroll bar indicating the large size of the files.

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', 'legs(4)', 'denden', 'noThomas', 'remember†', 'machine†', 'keepthem', 'scallions', 'jim:::by', 'topso', 'gasjets', 'possible', 'picture]', and 'Cracker_Jack'. The interface includes standard file operations like 'File', 'Edit', 'View', 'Select', 'Search', 'Tools', and 'Help'.

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附录

下面列出相关参考资料。

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参考资料

- [【已解决】Mac M2 Max中恢复Honkit的电子书制作工具Calibre的ebook-convert](#)
- [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](#)
- [【已解决】VSCode中插件Paste Image的粘贴图片快捷键Command+Alt+V失效 – 在路上](#)
- [【已解决】VSCode中调试Python代码](#)
- [【记录】用VSCode开发和调试Python](#)
- [让你人生不苦短的编程语言：Python](#)
- [【已解决】windows中安装VSCode](#)
- [【记录】Windows中新建VSCode的Python项目](#)
- [【记录】Windows中用VSCode去调试Python项目代码文件](#)
- [【已解决】Mac M2 Max中恢复Honkit的电子书制作工具Calibre的ebook-convert](#)