

在Visual Studio Code (VScode) 上配置c/c++环境

1.安装必要的插件和工具

1.1 安装 VSCode

安装 VSCode。可以前往 [Visual Studio Code 官方网站](#) 下载并安装

1.2 安装编译器

参考 <http://xhslink.com/a/G3SXX810ejaX>这篇笔记安装MinGW

1.3 安装 VSCode的 C/C++ 扩展



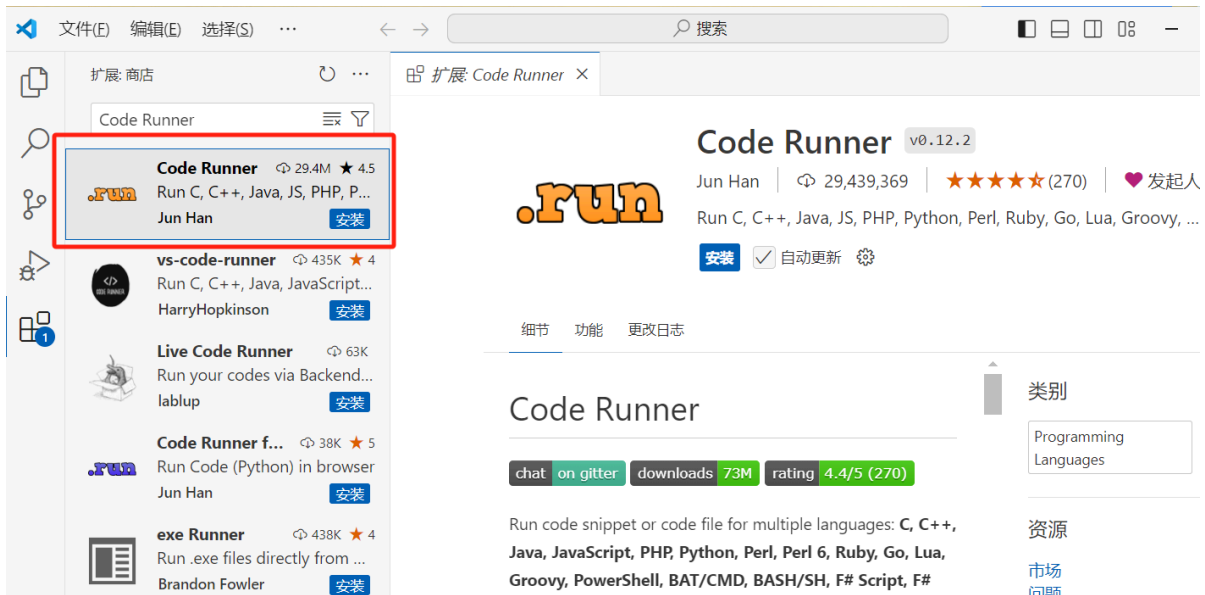
1.3.1 c/c++插件

搜索C/C++ 安装第一个插件



1.3.2 Code Runner插件

再搜索安装Code Runner



1.3.3 中文插件(Chinese)



还有很多好用的插件，需要的可以自行下载

1.3.5 C/C++ Extension Pack



这个插件是一个预配置的扩展集合，包括了开发C/C++所需的基础工具。

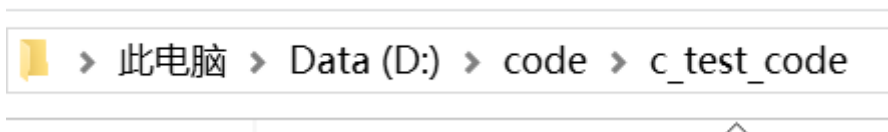


2. 配置调试功能

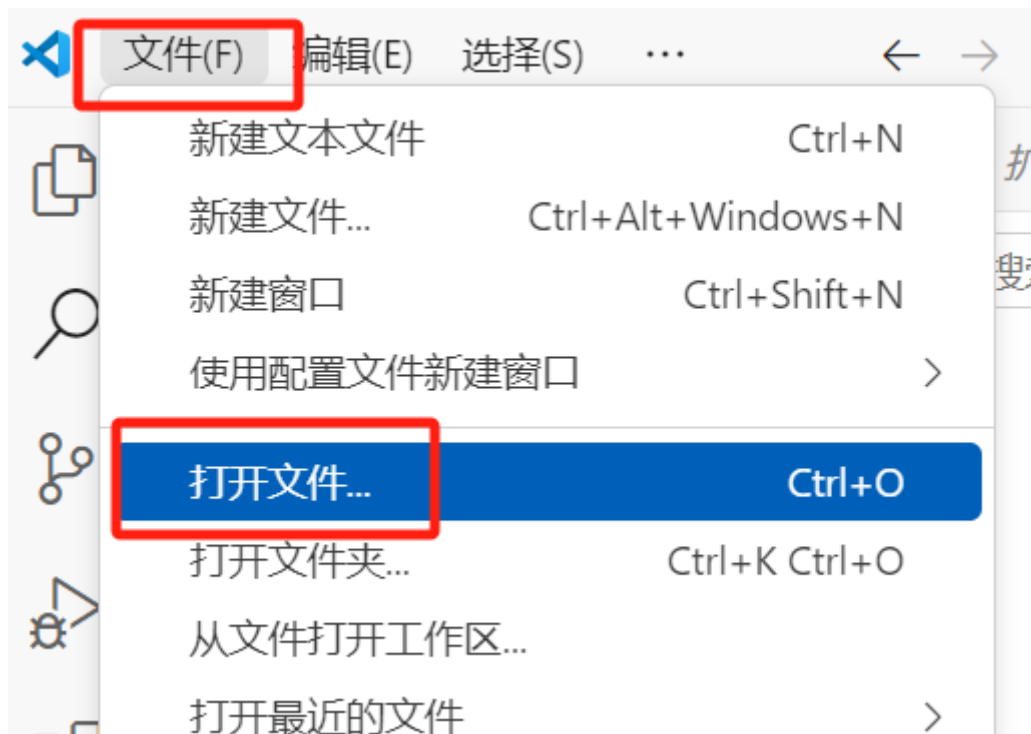
2.1 新建文件夹

在任意位置建一个文件夹（路径里不要有中文）

以后的C/C++代码文件都要放在这个文件夹里才可以正常调试。



2.2 打开文件夹，并信任文件夹



编辑讲化



是否信任此文件夹中的文件的作者？

Code 提供可以自动在此文件夹中执行文件的功能。

如果不信任这些文件的作者，则建议继续使用限制模式，因为这些文件可能是恶意文件。请参阅[我们的文档](#)，了解详细信息。

D:\code\c_test_code

☒ 信任父文件夹“code”中所有文件的作者

是，我信任此作者

信任文件夹并启用所有功能

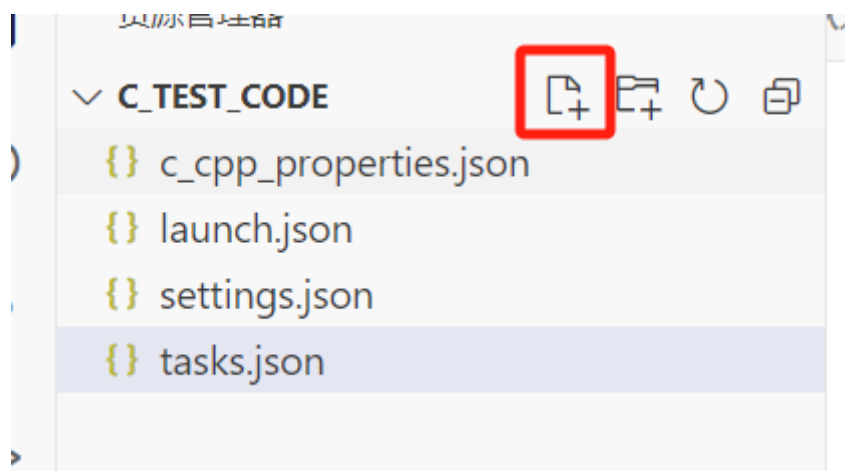
否，我不信任此作者

在受限模式下浏览文件夹

2.3 创建完成后再点击这个图标新建四个文件

```
//c_cpp_properties.json  
//launch.json  
//settings.json  
//tasks.json
```

在这里面添加



2.3.1 c_cpp_properties.json

```
{  
  "configurations": [  
    {  
      "name": "Win64",  
      "includePath": ["${workspaceFolder}/**"],  
      "defines": ["_DEBUG", "UNICODE", "_UNICODE"],  
    }  
  ]  
}
```

```

        "windowsSdkVersion": "10.0.18362.0",
        "compilerPath": "D:/workApp/x86_64-13.2.0-release-win32-seh-msvcrt-rt_v11-rev1/mingw64/bin/g++.exe",
        "cStandard": "c17",
        "cppStandard": "c++17",
        "intelliSenseMode": "gcc-x64"
    }
],
"version": 4
}

```

1 c_cpp_properties.json > ...

```

1 {
2     "configurations": [
3     {
4         "name": "Win64",
5         "includePath": ["${workspaceFolder}/**"],
6         "defines": ["_DEBUG", "UNICODE", "_UNICODE"],
7         "windowsSdkVersion": "10.0.18362.0",
8         "compilerPath": "D:/workApp/x86_64-13.2.0-release-win32-seh-msvcrt-rt_v11-rev1/mingw64/bin/g++.exe",
9         "cStandard": "c17",
10        "cppStandard": "c++17",
11        "intelliSenseMode": "gcc-x64"
12    }
13 ],
14 "version": 4
15 }

```

注意compilerPath这一项要把路径改成刚才g++的安装路径:找到刚刚的安装文件夹->MinGW->bin->g++.exe, 注意一下格式

2.3.2 launch.json

```

{
    "version": "0.2.0",
    "configurations": [
        {
            "name": "(gdb) Launch",
            "type": "cppdbg",
            "request": "launch",
            "program": "${fileDirname}\\${fileBasenameNoExtension}.exe",
            "args": [],
            "stopAtEntry": false,
            "cwd": "${workspaceRoot}",
            "environment": [],
            "externalConsole": true,
            "MIMode": "gdb",
            "miDebuggerPath": "D:\\workApp\\x86_64-13.2.0-release-win32-seh-msvcrt-rt_v11-rev1\\mingw64\\bin\\gdb.exe",
            "preLaunchTask": "g++",
            "setupCommands": [
                {
                    "description": "Enable pretty-printing for gdb",
                    "text": "-enable-pretty-printing",
                    "ignoreFailures": true
                }
            ]
        }
    ]
}

```

```
]
}
```

注意路径

launch.json > Launch Targets > {} (gdb) Launch

```
1  {
2      "version": "0.2.0",
3      "configurations": [
4          {
5              "name": "(gdb) Launch",
6              "type": "cppdbg",
7              "request": "launch",
8              "program": "${fileDirname}\\${fileBasenameNoExtension}.exe",
9              "args": [],
10             "stopAtEntry": false,
11             "cwd": "${workspaceRoot}",
12             "environment": [],
13             "externalConsole": true,
14             "MIMode": "gdb",
15             "miDebuggerPath": "D:\\workApp\\x86_64-13.2.0-release-win32-seh-msvcrt-rt_v11-rev1\\mingw64\\bin\\gdb.exe",
16             "preLaunchTask": "g++",
17             "setupCommands": [
18                 {
19                     "description": "Enable pretty-printing for gdb",
20                     "text": "-enable-pretty-printing",
21                     "ignoreFailures": true
22                 }
23             ]
24         }
25     ]
26 }
```

2.3.3 settings.json

```
{
  "files.associations": {
    "*.py": "python",
    "iostream": "cpp",
    "*.tcc": "cpp",
    "string": "cpp",
    "unordered_map": "cpp",
    "vector": "cpp",
    "ostream": "cpp",
    "new": "cpp",
    "typeinfo": "cpp",
    "deque": "cpp",
    "initializer_list": "cpp",
    "iosfwd": "cpp",
    "fstream": "cpp",
    "sstream": "cpp",
    "map": "c",
    "stdio.h": "c",
    "algorithm": "cpp",
    "atomic": "cpp",
    "bit": "cpp",
    "cctype": "cpp",
    "clocale": "cpp",
    "cmath": "cpp",
    "compare": "cpp",
    "concepts": "cpp",
    "cstddef": "cpp",
    "cstdint": "cpp",
    "cstdio": "cpp",
    "cstdlib": "cpp",
    "cstring": "cpp",
  }
}
```

```

    "ctime": "cpp",
    "cwchar": "cpp",
    "exception": "cpp",
    "ios": "cpp",
    "istream": "cpp",
    "iterator": "cpp",
    "limits": "cpp",
    "memory": "cpp",
    "random": "cpp",
    "set": "cpp",
    "stack": "cpp",
    "stdexcept": "cpp",
    "streambuf": "cpp",
    "system_error": "cpp",
    "tuple": "cpp",
    "type_traits": "cpp",
    "utility": "cpp",
    "xfacet": "cpp",
    "xiosbase": "cpp",
    "xlocale": "cpp",
    "xlocinfo": "cpp",
    "xlocnum": "cpp",
    "xmemory": "cpp",
    "xstddef": "cpp",
    "xstring": "cpp",
    "xtr1common": "cpp",
    "xtree": "cpp",
    "xutility": "cpp",
    "stdlib.h": "c",
    "string.h": "c"
  },
  "editor.suggest.snippetsPreventQuickSuggestions": false,
  "aiXcoder.showTrayIcon": true
}

```

2.3.4 tasks.json

```

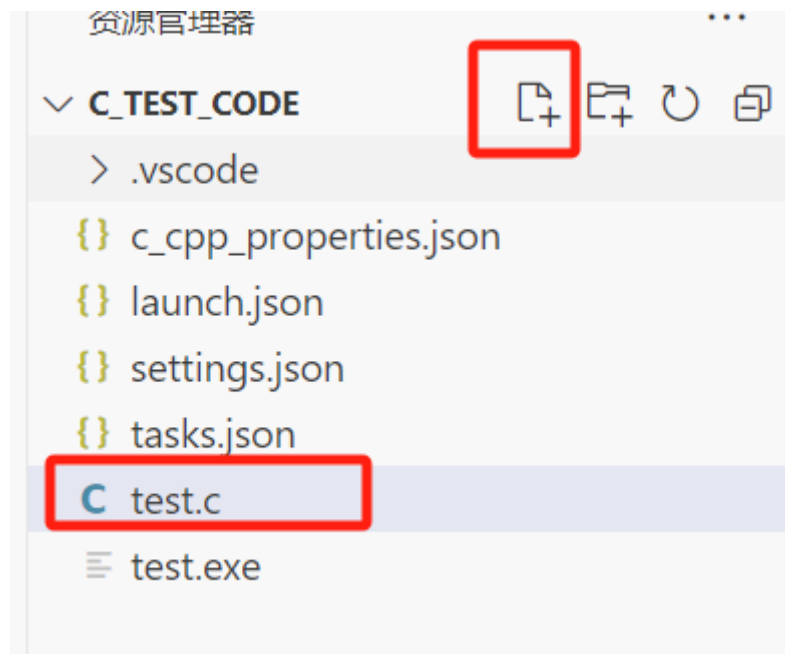
{
  "version": "2.0.0",
  "tasks": [
    {
      "label": "g++",
      "command": "g++",
      "args": [
        "-g",
        "${file}",
        "-o",
        "${fileDirname}/${fileBasenameNoExtension}.exe"
      ],
      "problemMatcher": {
        "owner": "cpp",
        "fileLocation": ["relative", "${workspaceRoot}"],
        "pattern": {
          "regexp": "^(.*):(\\d+):(\\d+):\\s+(warning|error):\\s+(.*)$",
          "file": 1,

```

```
        "line": 2,  
        "column": 3,  
        "severity": 4,  
        "message": 5  
    },  
    },  
    "group": {  
        "kind": "build",  
        "isDefault": true  
    }  
}  
]  
}
```

3.打出第一个程序

新建.c/.cpp文件



在里面写代码然后运行



