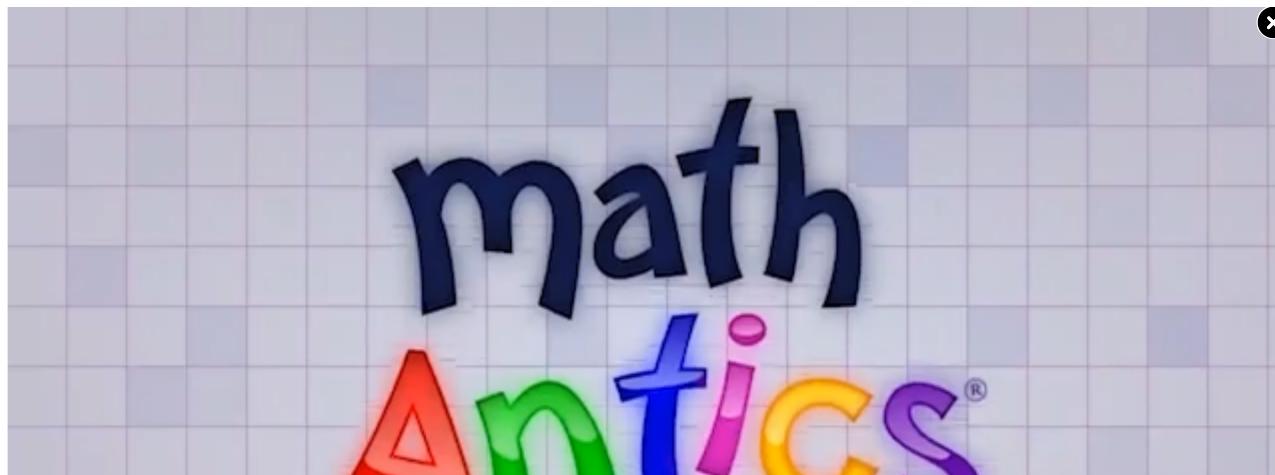


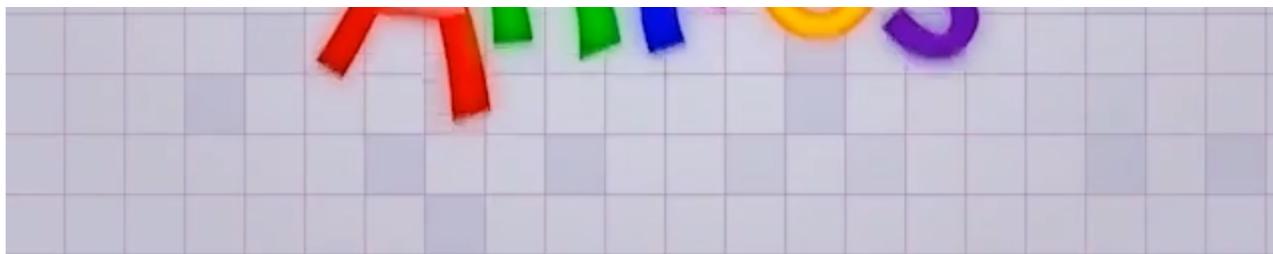
# ProgrammerSought

 search

## Install PyQt5 and integrate tools into Pycharm

tags: [python learning](#) [python](#) [pyqt5](#) [pycharm](#)





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## table of Contents

- 0. Preface
- 1. Related package installation
  - 1.1 PyQt5 package installation
  - 1.2 PyQt5-tools package installation
- 2. Integrate tools into Pycharm
  - 2.1 pyqt5-designer integrated into Pycharm
  - 2.2 Integration of pyuic5 into Pycharm
  - 2.3 pyrcc5 integrated into Pycharm
- 3. Reference tools
- 4 Conclusion

---

0. Preface

Back to top

I suddenly entered the pit of PyQt5 recently, and I still want to make a display interface for pycharm programs. Record the installation of PyQt5 and how to use PyQt5 in Pycharm here.

## 1. Related package installation

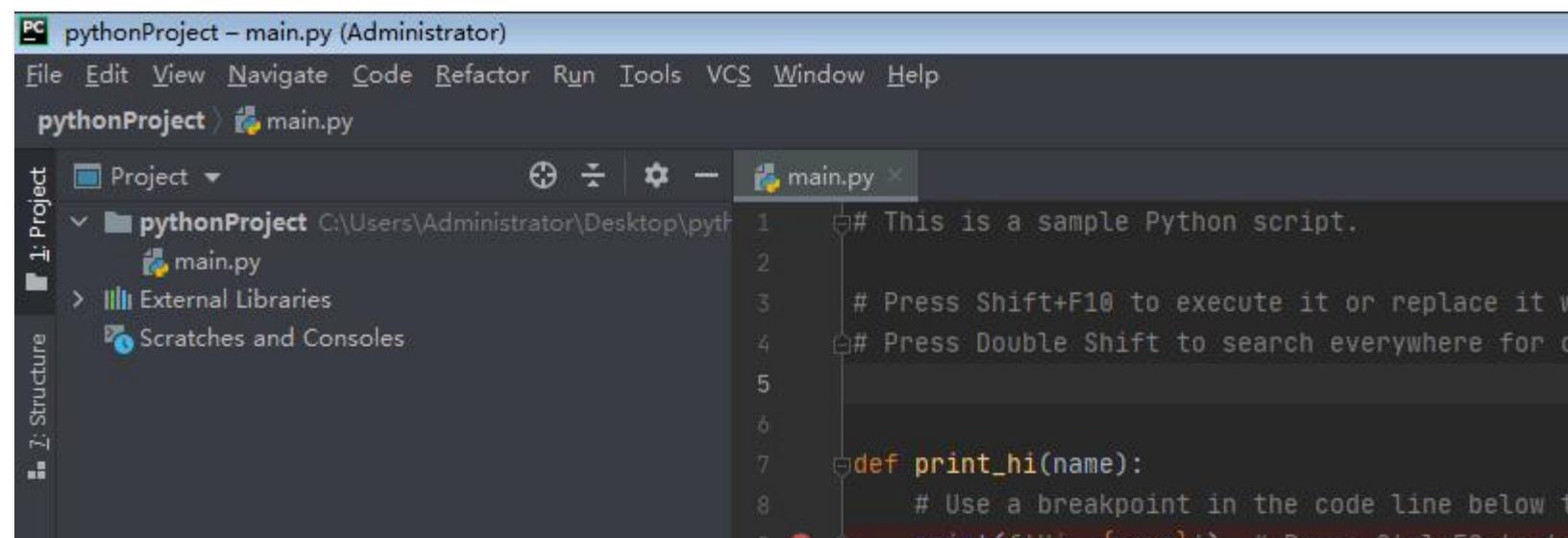
[Back to top](#) ↗

Two packages need to be installed here [PyQt5 and PyQt5-tools]

### 1.1 PyQt5 package installation

[Back to top](#) ↗

Open pycharm, click the terminal at the bottom, enter the command python -m pip install pyqt5, wait for about 2 minutes for the installation to succeed



```
# This is a sample Python script.

# Press Shift+F10 to execute it or replace it with your own code.
# Press Double Shift to search everywhere for classes, files, tool windows, actions, and settings.

def print_hi(name):
    # Use a breakpoint in the code line below to debug.
    print(f'Hi, {name}')  # Press Ctrl+F8 to toggle the breakpoint.
```

The screenshot shows the PyCharm IDE interface. The terminal window is active, displaying the command `python -m pip install pyqt5` being run. The output shows the progress of the download and installation of PyQt5 and its dependencies. A red box highlights the URL in the output where the package is being downloaded from. The bottom of the terminal window shows the PyCharm navigation bar with tabs for Problems, TODO, Terminal (which is selected), and Python Console.

```
Terminal: Local +  
Microsoft Windows [版本 6.1.7601]  
版权所有 (c) 2009 Microsoft Corporation。保留所有权利。  
  
C:\Users\Administrator\Desktop\pythonProject>python -m pip install pyqt5  
Looking in indexes: https://repo.huaweicloud.com/repository/pypi/simple  
Collecting pyqt5  
  Downloading https://repo.huaweicloud.com/repository/pypi/packages/aa/72/754c693db0e745b9fe47debc:6.cp37.cp38.cp39-none-win_amd64.whl (56.9 MB)  
   |████████████████████████████████| 56.9 MB 3.3 MB/s  
Collecting PyQt5-sip<13,>=12.8  
  Using cached https://repo.huaweicloud.com/repository/pypi/packages/03/cc/e64951708def57388343614: -win_amd64.whl (62 kB)  
Installing collected packages: PyQt5-sip, pyqt5  
Successfully installed PyQt5-sip-12.8.1 pyqt5-5.15.2  
  
C:\Users\Administrator\Desktop\pythonProject>
```

## 1.2 PyQt5-tools package installation

Back to top

Following the previous step, enter the command `python -m pip install PyQt5-tools`

The screenshot shows the PyCharm IDE interface with the terminal tab selected. The terminal window displays the command `python -m pip install PyQt5-tools` and its execution. A red box highlights the URL `https://repo.huaweicloud.com/repository/pypi/simple` in the output, indicating it is the repository being used for the package download.

```
-win_amd64.whl (62 kB)
Installing collected packages: PyQt5-sip, PyQt5
Successfully installed PyQt5-sip-12.8.1 PyQt5-5.15.2

C:\Users\Administrator\Desktop\pythonProject>python -m pip install PyQt5-tools
Looking in indexes: https://repo.huaweicloud.com/repository/pypi/simple
Collecting PyQt5-tools
  Downloading https://repo.huaweicloud.com/repository/pypi/packages/6b/85/1a06453c56f19630ef7fb7778de-any.whl (28 kB)
Collecting PyQt5-plugins<5.15.1.3,>=5.15.1.2
  Downloading https://repo.huaweicloud.com/repository/pypi/packages/7e/ad/82dbb3c9b442ed0d92eeecc64fp37-cp37m-win_amd64.whl (65 kB)
|██████████| 65 kB 217 kB/s
Collecting PyQt5==5.15.1
  Using cached https://repo.huaweicloud.com/repository/pypi/packages/44/b3/4402c5571e69bcc4e54a6f59436.cp37.cp38.cp39-none-win_amd64.whl (59.4 MB)
Collecting python-dotenv
  Using cached https://repo.huaweicloud.com/repository/pypi/packages/32/2e/e4585559237787966aad0f8fd3-none-any.whl (18 kB)
Collecting click
  Using cached https://repo.huaweicloud.com/repository/pypi/packages/d2/3d/fa76db83bf75c4f8d338c2fd1y.whl (82 kB)
Collecting qt5-tools<5.15.1.2,>=5.15.1.1
  Downloading https://repo.huaweicloud.com/repository/pypi/packages/60/60/c06eedc1bb3b370ceca48be26e
```

ps:

1. When installing pyqt5, you need to pay attention to the version of pyqt5-sip. The corresponding version relationship is automatically matched during installation. If there is no automatic correspondence, the version of the corresponding relationship needs to be selected when installing pyqt5 and pyqt5-sip (otherwise it will appear in subsequent use problem).
2. Regarding the difference between python -m pip install xxx and pip install xxx: In my actual installation process, the command with the python -m prefix will install the package into the python installation path (available to all users) without adding Sometimes it is installed to the installation path of python, and sometimes it is installed to a path of the C drive (available by yourself but not available to other users), in order not to increase the environment variables of the path of the C drive (to avoid finding the package you installed ), so it is recommended to use python -m pip install xxx.
3. If you know the path of the package you installed, you can open pycharm, click the python console at the bottom, directly import the package, and then enter the package name and press Enter to see the

path

The screenshot shows the PyCharm IDE interface. The main window displays a code editor with the following content:

```
10
11
12 # Press the green button in the gutter to run the script.

#-- name -- main --
```

Below the code editor is the Python Console tab, which contains the following Python session:

```
Python 3.7.9 (tags/v3.7.9:13c94747c7, Aug 17 2020, 18:58:18) [MSC v.1900 64 bit (AMD64)] on win32
>>> import PyQt5
>>> PyQt5
<module 'PyQt5' from 'D:\\software\\python37\\lib\\site-packages\\PyQt5\\__init__.py'>

>>>
```

The first two lines of the console output, `import PyQt5` and `PyQt5`, are highlighted with a red box.

## 2. Integrate tools into Pycharm

[Back to top](#) ↗

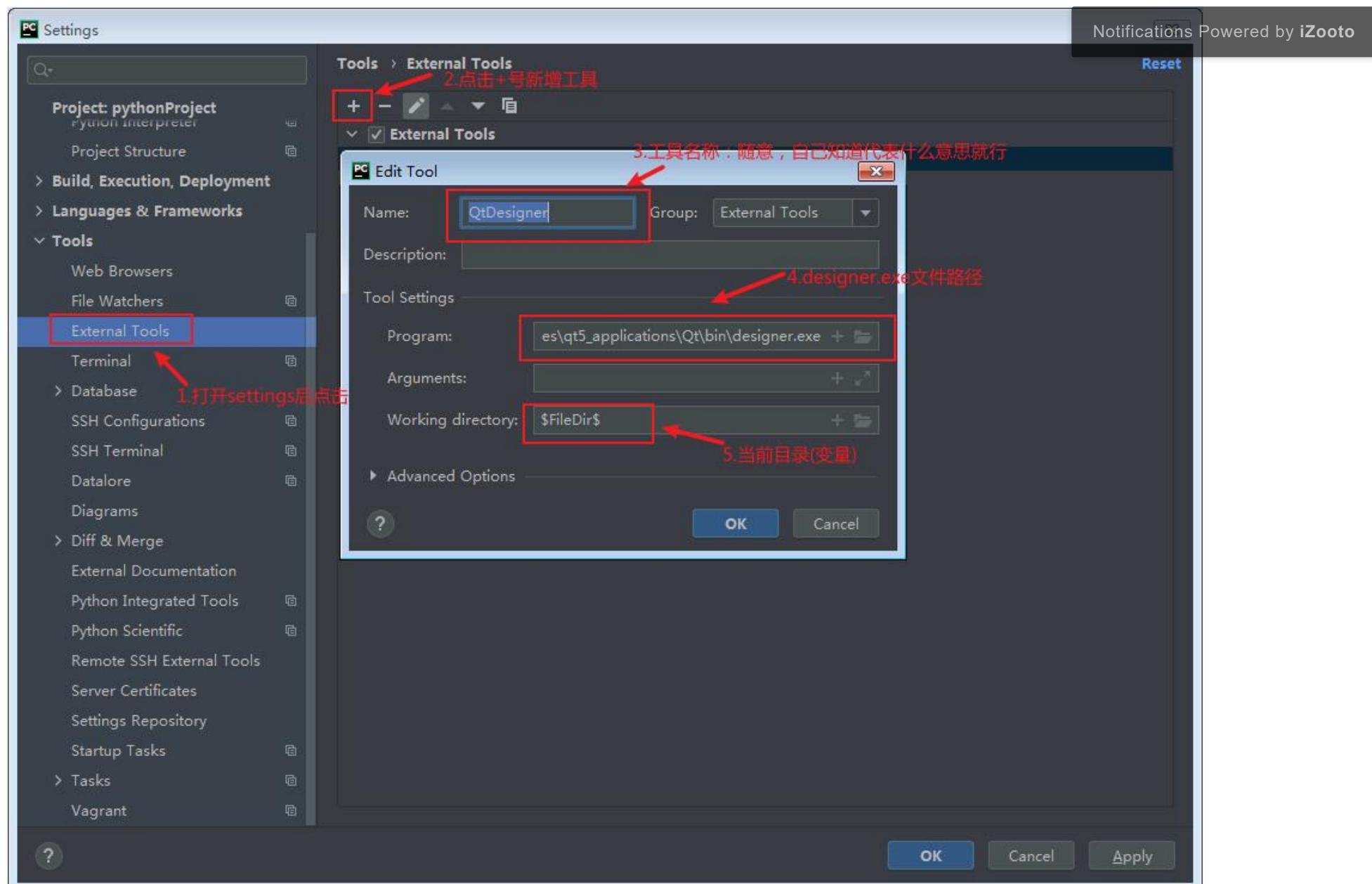
1. The configuration of PyCharm is to open qt designer (design interface) in Pycharm and generate qt files (files with suffix ui) for easy conversion into python files.
2. Similarly, in order to convert qt files (files with the suffix ui) into python files in Pycharm, pyuic5 needs to be integrated.

3. Similarly, in order to convert resource files (files with the `qrc` suffix) into python files in [Pycharm](#), and be loaded and used by other python main programs, `pyrcc5` needs to be integrated.

## 2.1 pyqt5-designer integrated into Pycharm

[Back to top](#) 

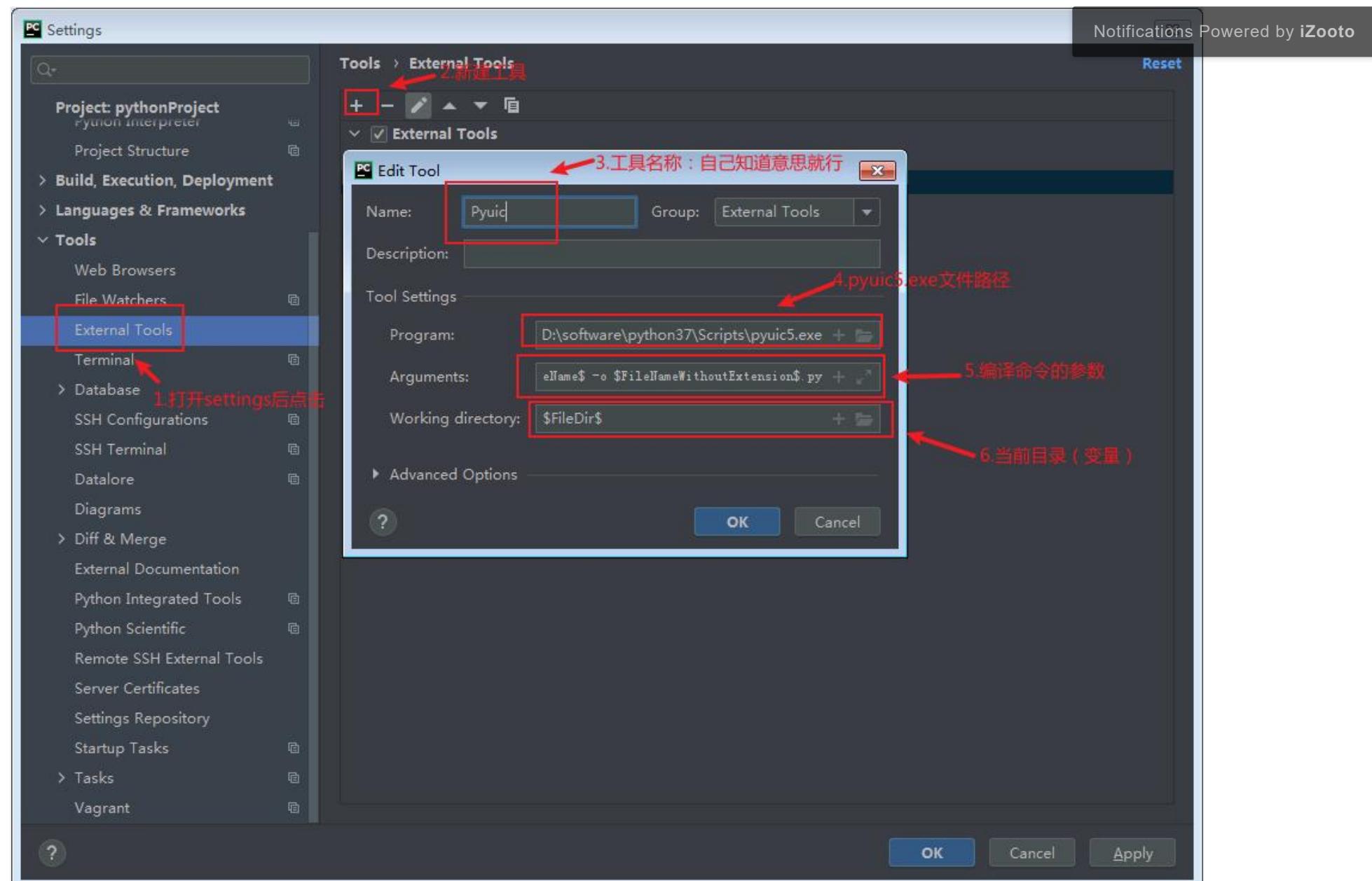
By integrating `pyqt5-designer` to `pycharm`, the designer can be run in `pycharm`, and the display interface can be designed in the designer.



## 2.2 Integration of pyuic5 into Pycharm

[Back to top ↗](#)

Same as the previous step, you also need to integrate the tool pyuic5 to Pycharm. The main difference is that when you design the ui and generate the ui suffix file, you need to convert it to a py file, and then write your logic code or interface function code in it.



The Arguments parameters of step 5 are:

```
$FileName$ -o $FileNameWithoutExtension$.py
```

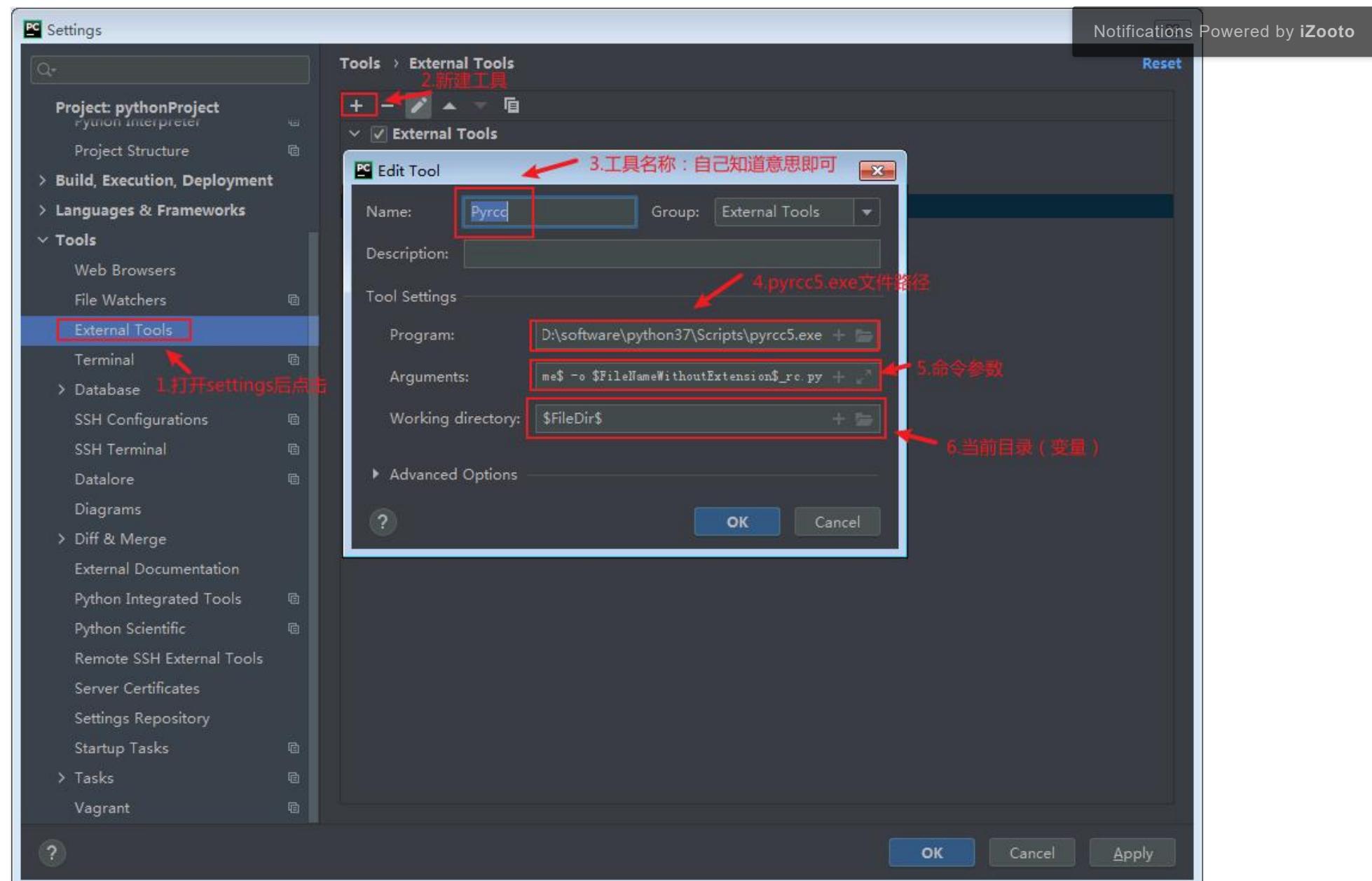
In fact, the pyuic tool is equivalent to a quick compilation method, which is actually equivalent to executing in the terminal

```
python test.ui -o test.py
```

[2.3 pyrcc5 integrated into Pycharm](#)

[Back to top](#) 

As in the previous step, you also need to integrate the tool pyrcc5 to Pycharm. The main function is that when you need to use image resources when designing, you can write a resource file with the suffix qrc. This file cannot be directly referenced by the python file. You need to use pyrcc5 to convert it into a py file, and then imported by the way of importing the package, you can use the picture.



Similarly, the Arguments parameter in step 5 here is:

```
$FileName$ -o $FileNameWithoutExtension$_rc.py
```

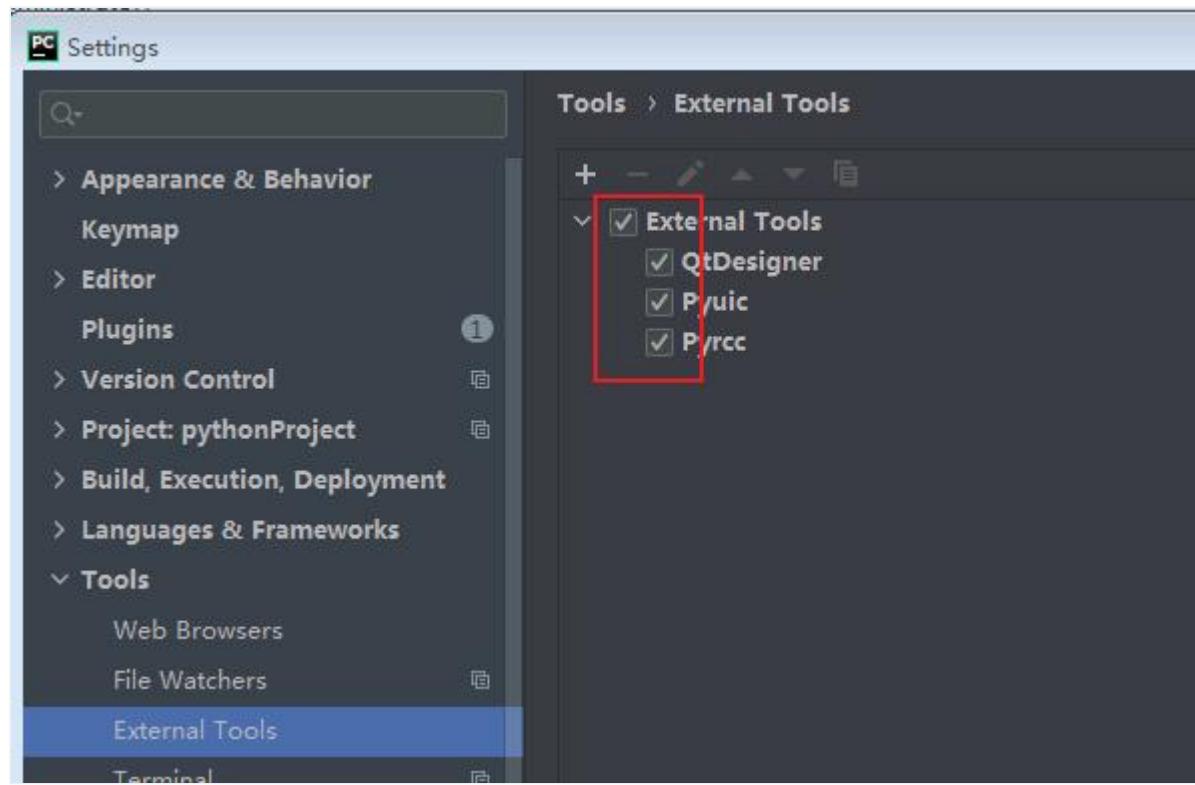
In fact, the pyuic tool is equivalent to a quick compilation method, which is actually equivalent to executing in the terminal

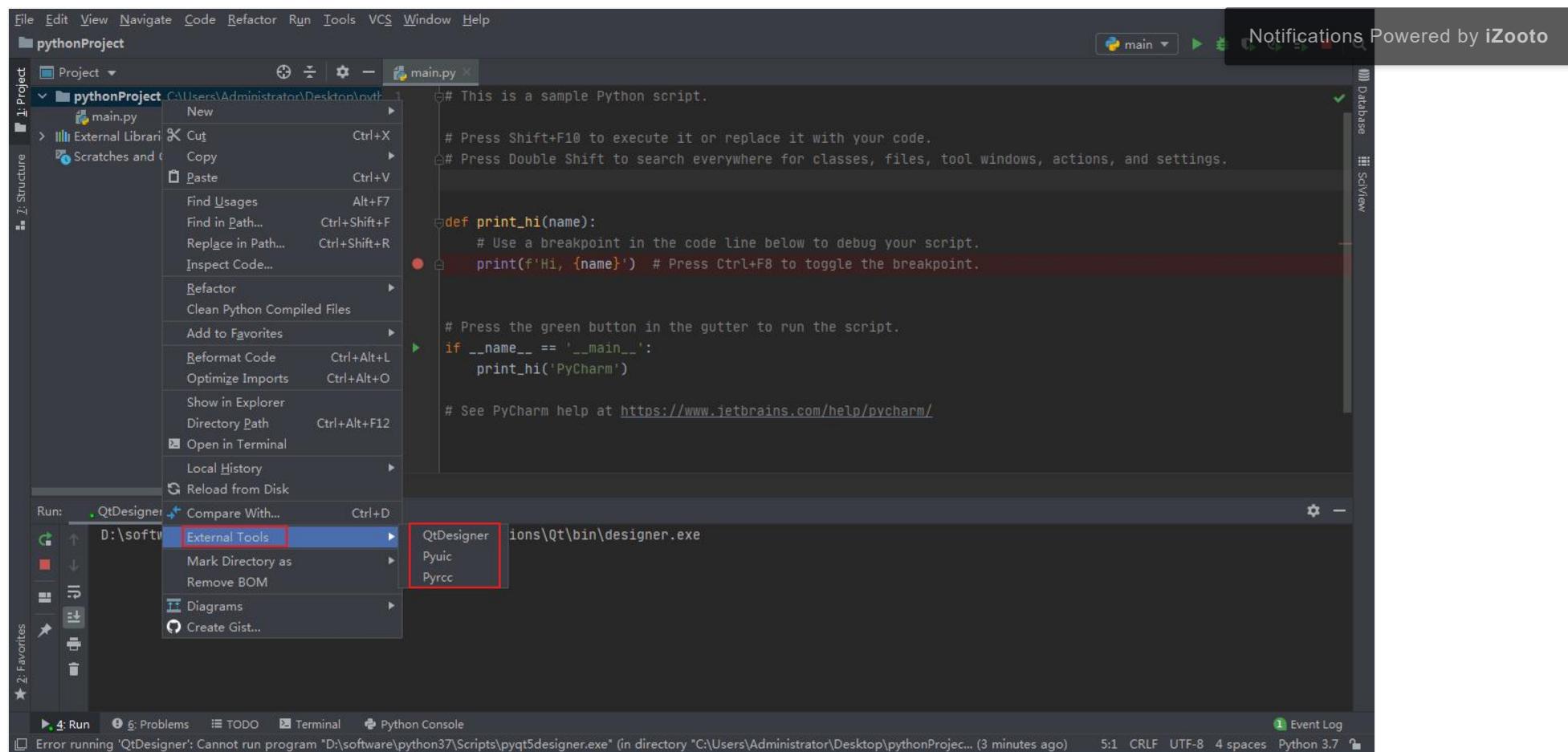
```
python test.ui -o test_rc.py
```

### 3. Heading 3

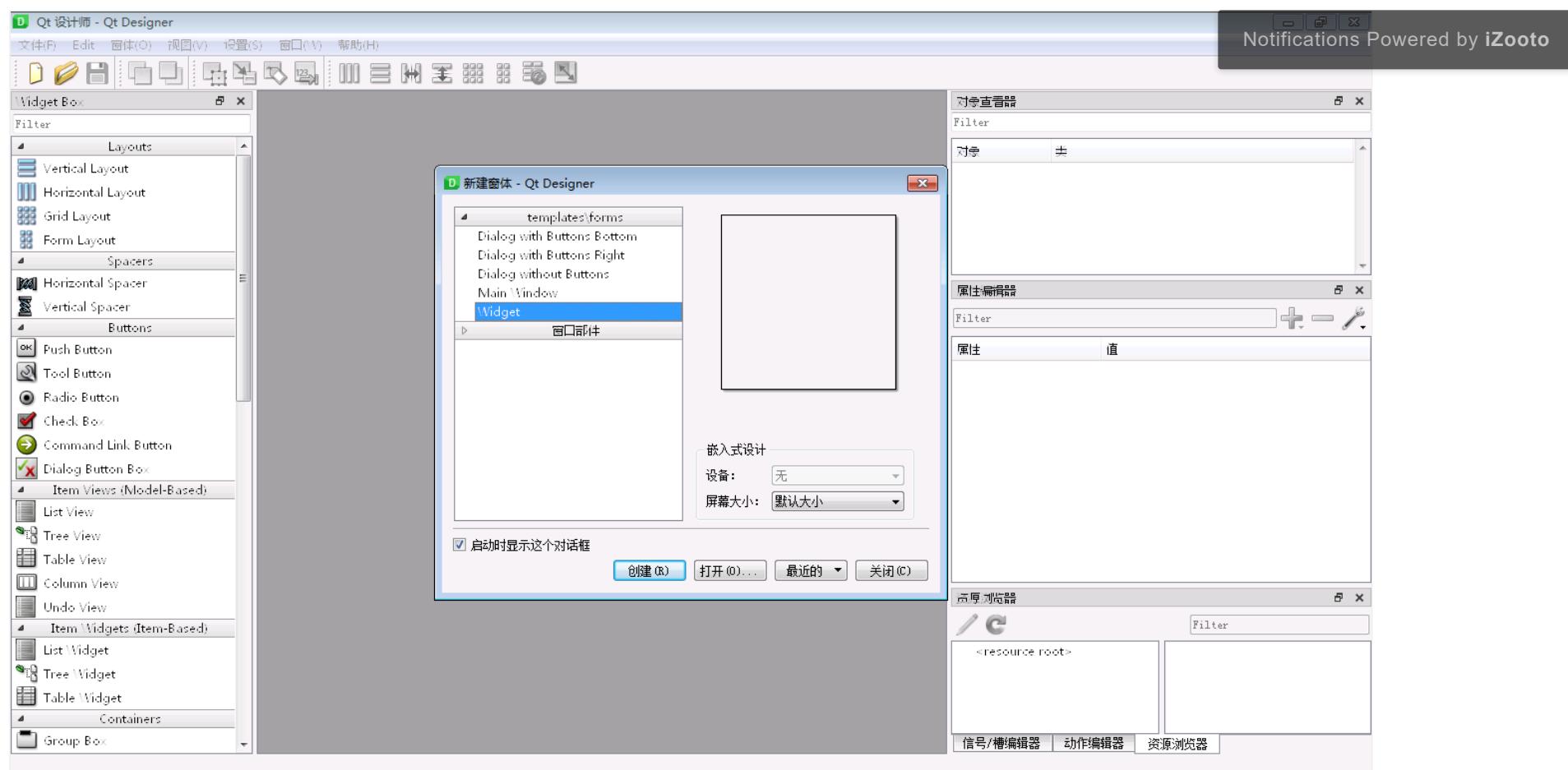
[Back to top](#) 

After creating the above 3 tools, you need to check them. After restarting pycharm, you can use them normally (unchecked can not be used).





1. Use QtDesigner: select the directory, right-click External Tools, and click QtDesigner. The effect is as follows:



2. Use pyuic5: select the ui suffix file, right-click and select execute, a py suffix file with the same name will appear in the same directory, the effect is as follows:

pythonProject – main.py (Administrator)

File Edit View Navigate Code Refactor Run Tools VCS Window Help

pythonProject > test.ui

Project

1: Project

2: Structure

3: External Libraries

Scratches and Consoles

main.py

picture.qrc

screen.jpg

test.py

test.ui

main.py

```
1 # This is a sample Python script.
2
3 # Press Shift+F10 to execute it or
4 # Press Double Shift to search everywhere
5
6
7 def print_hi(name):
8     # Use a breakpoint in the code (F5) to step into
9     # a function to debug it.
10    print(f'Hi, {name}') # Press Ctrl+F8 to toggle the breakpoint.
11
12 # Press the green button in the gutter
13 # to run the script.
14 if __name__ == '__main__':
15     print_hi('PyCharm')
16
17 # See PyCharm help at https://www.jetbrains.com/help/pycharm/
```

Run: QtDesigner x Pyuic x

D:\software\python37\Scripts\pyuic5.exe test.ui -o test.py

Process finished with exit code 0

3. Use of pyrcc5: select the qrc suffix file, right-click and select execute, a py suffix file with the same

name will appear in the same directory, the effect is as follows:

```
# This is a sample Python script.

# Press Shift+F10 to execute it or replace it with your code.

# Press Double Shift to search everywhere for classes, files, tool windows, actions, and settings.

def print_hi(name):
    # Use a breakpoint in the code line below to debug.

    print(f'Hi, {name}') # Press Ctrl+F8 to toggle the breakpoint.

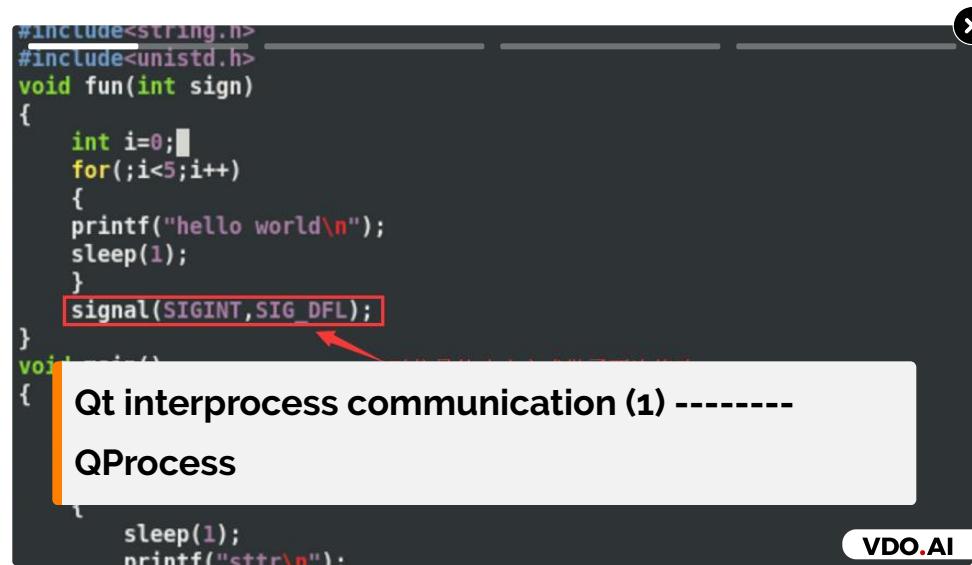
if __name__ == '__main__':
    print_hi('PyCharm')

# See PyCharm help at https://www.jetbrains.com/help/pycharm/
```

#### 4 Conclusion

Back to top 

The installation of PyQt5 and PyQt5-tools is not difficult. After the above preparations are done, you can design your python software. Follow-up research on the functions and effects of each control of PyQt5. If you have time, you will study and design a ticket grab software Try 😊.



A screenshot of a code editor showing a C++ program. The code includes #include <string.h>, #include <unistd.h>, and a function fun that prints "hello world" five times and handles SIGINT/SIG\_DFL signals. A red box highlights the signal line, and a callout bubble from an AI tool suggests using QProcess instead. The VDO.AI logo is visible in the bottom right corner of the editor window.

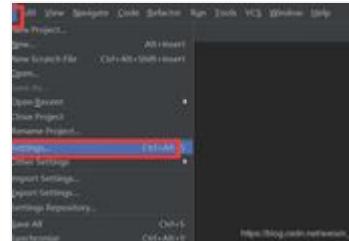
```
#include<string.h>
#include<unistd.h>
void fun(int sign)
{
    int i=0;
    for(;i<5;i++)
    {
        printf("hello world\n");
        sleep(1);
    }
    signal(SIGINT,SIG_DFL);
}
void main()
{
    sleep(1);
    printf("start\n");
}
```

## Intelligent Recommendation

### Install PyQt5 and PyQt5-tools on win10

This application failed to start because no Qt platform plugin could be initialized. Reinstalling the application may fix this problem. Install PyQt5 Install PyQt5-tools Replace the plugins folder Ins...

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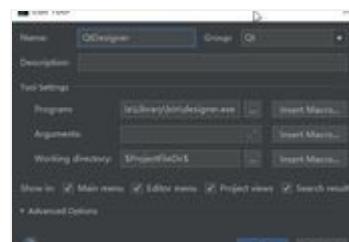
## pycharm tutorial for configuring pyqt5 and pyqt5-tools

1. Install PyQt5 The installation is complete. Second, install PyQt5-tools It stands to reason that this should work, but I failed somehow. The error is reported as follows: So here is the command lin...



## Detailed Python3.8+PyQt5+pyqt5-tools+Pycharm configuration

Personal use environment WIN10x64 system, Python3.8, PyCharm2020.01.03 Installation process One, install Python3.8 (refer to other tutorials yourself) Two, install PyQt5 Then enter the command under c...



## Pycharm configuration PYQT5 and related tools

Install PYQT5 in the Python environment Ubuntu Installation Method: Sudo Pip3 Install PYQT5 CentOS installation method Increase EPEL: yum install epel-release -y Install QT5.6: yum install qt5-qtquickco...

## Pycharm install PyQT5 call QTDesigner

Seeing this elder brother do it, there is basically no problem. but! ! You also need to read the text below, very likely! Do n't rush to close me this link, you will use it soon This is a help a...

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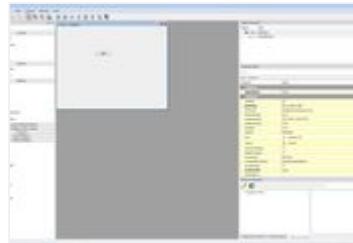


## More Recommendation



### Install PyQt5+PyQt5-tools+Eric6 under Anaconda

- 1 Install Anaconda 1.1 Anaconda download address: Double clickOfficial website linkDirect installation
- 1.2 Configure environment variables Anaconda's environment variables:  
(win10System) Computer-Prop...



## Pycharm configuration pyqt5-tools development environment

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This article describes the use of Python+PyQt5 to develop a visualization of the desktop program UI View layout. First, the installation of the environment package 1, if you still don't know the virtual environment...



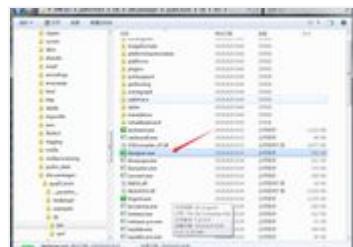
## ubuntu + pycharm + anaconda + pyqt5 + tools configuration

1. Skip installation of pycharm and anaconda 2. Generate virtual environment through anaconda configuration in pycharm file-->settings-->Project Interpreter, As shown in the figure, suppose the ...



## Configure External tools related to PyQT5 in PyCharm

pycharm configures external tools related to PyQT5. The pycharm version I use, different versions may be different, but they are probably similar: The first item marked below should be configured accor...



## PyCharm configures PyQt5 and QtDesigner extension tools

Foreword I'm really annoyed to get this configuration back and forth. The path is wrong and the function can't be realized. So I sum up the lessons and hope that there will be no more problems. soluti...



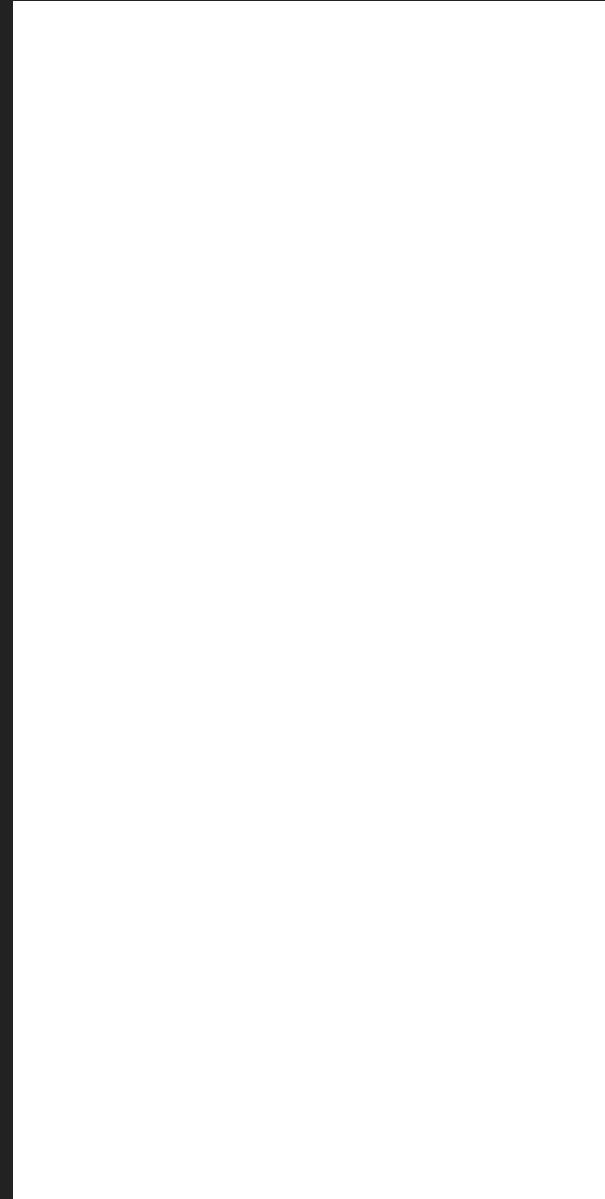
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- Python install PyQt5 and PyQt5-tools file + pycharm configuration
- Pycharm configuration pyqt5-tools
- Pycharm Install PYQT5, PyQt5-Tools and Tools under VENV (Qt Designer, Pyuic, Pyrcc)
- pycharm install and configure pyqt5
- Pycharm install pyqt5
- Pycharm install PyQt5
- pycharm install pyqt5

- pyqt5 install pycharm configuration
- WINDOWS PYCHARM Install PYQT5

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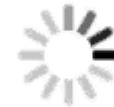


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- MS16-016 rights
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- Big Data and Cloud Computing Technology Weekly Report (Issue 177)
- Remove wavy lines from pycharm

- Test code
- IOCTL codes implemented using LCD backlight adjustment
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## Install configuration - Windows



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