<u>PyCharm</u>

Debugger

7

- Run/debug configuration
- Breakpoint
- Stepping through the script

Run/debug configuration

PyCharm lets you customize how the debugger runs. You also need to set up the script name, working directory, and other important data required for debugging

breakpoint

A breakpoint is a line of the source code, where PyCharm will pause, when this line is reached. There are a few different types of breakpoints, each one marked with its own icon. They can be temporary, or exception breakpoint.

set breakpoints

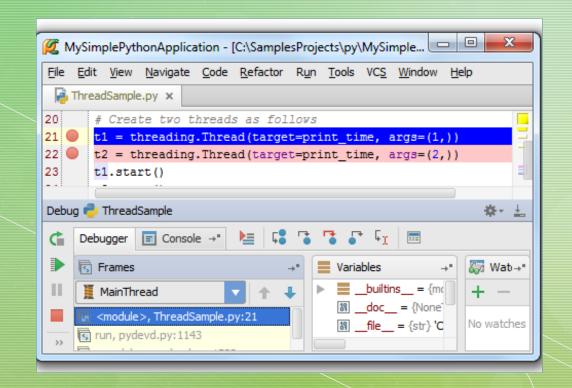
- Set breakpoints in the source code.
- left gutter on the lines you want PyCharm to pause at while debugging:

```
MySimplePythonApplication - [C:\SamplesProjects\py\MySimplePython...
 <u>File Edit View Navigate Code Refactor Run Tools VCS Window Help</u>
  ThreadSample.py x
           while count < 8:
15
               time.sleep(delay)
16
17
               print("%s: %s" % (thread_name, time.ctime(time.time())))
18
19
20
        # Create two threads as follows
21 🔵
       t1 = threading.Thread(target=print_time, args=(1,))
       t2 = threading.Thread(target=print time, args=(2,))
23
       t1.start()
24
       t2.start()
25
       t1.join()
26
       t2.join()
```

Debugging session

Select run/debug configuration "YourThread", and then press Shift+F9 (or click on the toolbar). The debugger will start, and pauses at the first breakpoint:

The line will be marked blue. It means that PyCharm hit this line, but not yet executed it.

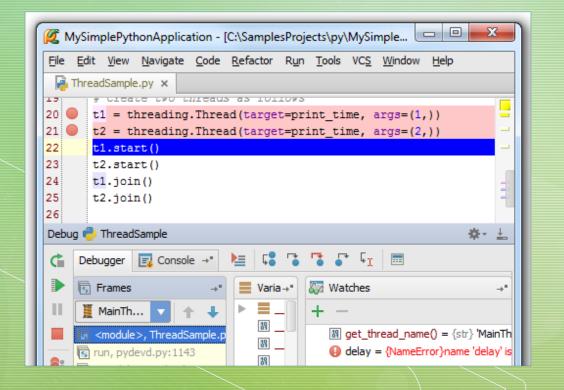


Stepping through the code

Step into the method called at the current execution point.

Step into only your method called at the current execution point.

Click this button to execute the program until the next line in the current method or file, skipping the methods referenced at the current execution point



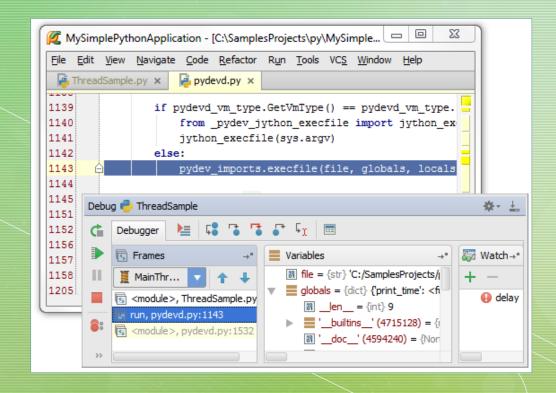
z z Watches pane

In the Watches pane number of variables or context of the current stack frame. The values are updated with each step through the application, and become visible every time the application is suspended.



Variables pane

The Variables pane enables you to examine the values stored in the objects of your application.



Debugger Tutorial

https://confluence.jetbrains.com/display/PYH/Debugger