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Please indicate the source!

1. Connection and library import

```python
#!/usr/bin/env python
# -*- coding: utf-8 -*-
'''
============================
Author = Hulunbuir & DalaiNur
Email: liyang@alu.hit.edu.cn
Last Update: 2019.07.28 14:00
============================
'''

from pyautocad import Autocad

acad = Autocad(create_if_not_exists = True)
acad.prompt("Hello! AutoCAD from pyautocad.")
print(acad.doc.Name)
```

Create a new folder named **"AutoCAD"** on the D drive .

2. Open the file

There must be at least one open graphics space in the CAD program, otherwise an error will be reported, and the error content is: Unable to obtain the Document object.

Open the file D:\AutoCAD\PyAutoCAD.dwg, the code is as follows:

```
acad.ActiveDocument.Application.Documents.Open("D:\AutoCAD\PyAutoCAD.dwg")
```

3. New file

The newly created file as follows adopts the default name of the system, namely Drawing1, Drawing2... If you change the name, you can define it when you close it.

```
1   DrawingObj = acad.ActiveDocument.Application.Documents.Add("")
```

4. Set current

Setting the current is to set a certain file as the active file, and all the code related to drawing after it will take effect in this file.

4.1. Set the known file name to current

Set the file PyAutoCAD.dwg as the current file, the code is as follows:

```
1   acad.ActiveDocument.Application.Documents("PyAutoCAD.dwg").Activate()
```

4.2. Set unknown file name to current

```
1   DrawingObj.Activate()   # 将New_Drawing设为当前文件。
```

5. Close and save changes

5.1. Close existing files

```
1   acad.ActiveDocument.Application.Documents("PyAutoCAD.dwg").Close(True, "PyAutoCAD_已变更.dwg")
2       # 关闭PyAutoCAD.dwg文件。
3       # True 布尔值,为系统默认, 表示打开文件后关闭前文件若发生变更, 则保存变更, 并另存为PyAutoCAD_已变更.dwg
4       # 此时文件夹中同时存在未变更的"PyAutoCAD.dwg"和已变更的"PyAutoCAD_已变更.dwg"
5       # 若第二项空缺, 则新文件名为"PyAutoCAD.dwg", 覆盖之前未变更的文件。
```

5.2. Close the newly created file

```
1   DrawingObj .Close(True, "HIT.dwg")
2       # 关闭New_Drawing文件。
3       # 文件夹中仅存在"HIT.dwg"一个文件。
```

5.3. Close the current file

```
1   acad.ActiveDocument.Close()
2       # 关闭当前文档。
```

6. Save as

6.1. Save as .dwg/.dxf

The following methods can only be saved as a file format is .dwg and .dxf, which is a CAD program, then click **File >> Save As** , respectively.

1. Save the current file as .dwg/.dxf

Save the current file as PyAutoCAD_SaveAs.dxf, the version of the file is: AutoCAD 2013 DXF. code show as below:

```
1   acad.ActiveDocument.SaveAs("D:\AutoCAD\PyAutoCAD_SaveAs", 61)
```

After the previous code is executed, the current file is closed by the program, and the PyAutoCAD_SaveAs.dxf file is opened and set as the current file.
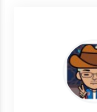
Parameter 61 indicates that the type of save as file is AutoCAD 2013 DXF, and other commonly used types are as follows:

Version	.dwg	.dxf
AutoCAD 2000	12	13
AutoCAD 2004	twenty four	25
AutoCAD 2007	36	37
AutoCAD 2010	48	49
AutoCAD 2013	60	61

2. Save the current file as .dwg/.dxf

Save the specific file PyAutoCAD.dwg as PyAutoCAD_SaveAs.dxf, the version of the file is: AutoCAD 2013 DXF. code show as below:

```
1   acad.ActiveDocument.Application.Documents("PyAutoCAD.dwg").SaveAs("D:\AutoC  /AutoCAD_SaveAs", 61)
```

7. Ending

The above are some basic codes about AutoCAD files . Due to limited space, some non-critical functions have not been introduced in detail. If you have any questions, please email us.

The realization of some functions of this article cannot be separated from the great help of the vast number of bloggers. Some functions seem simple, but it is not easy to realize them for the first time.

In view of the relatively small number of relevant sample codes, this article features a summary of the phased learning for oneself on the one hand, and on the other hand, it provides a little more reference for those in need.

If you have implemented some functions not mentioned in this article, please present them in the comment area to provide more help for follow-up learners.

The Tibetan writing is full of words, and there are poems and books in the belly. I hope you can wander happily in the pāo of knowledge.

Because I am learning Python wildly and my level is really limited, it is inevitable that there are some omissions in the article. Please feel free to criticize and correct me.

Finally, I wish you all the siege lions, cherish life and protect the hairline!

Part of the content of this article originates from the Internet!

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