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Python AutoCAD layers

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One, 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)
```

Second, create a new layer

```python
LayerObj = acad.ActiveDocument.Layers.Add("HIT_Layer")
    # 添加新图层，图层名称为"HIT_Layer"。
acad.ActiveDocument.ActiveLayer = LayerObj
    # 将"HIT_Layer"图层设置为当前图层。
```

Three, color settings

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```
    # 其他颜色索引号见 https://wenku.baidu.com/view/9d458b70195f312b3069a505.html。
```

Four, line type setting

```
acad.ActiveDocument.Linetypes.Load("ACAD_ISO08W100","acadiso.lin")
    # 加载线型，"ACAD_ISO05W100"为线型名称，详细信息见CAD帮助文档;
    # "acadiso.lin"为用于公制单位的线型定义文件，详细信息见CAD帮助文档;
    # 为图层指定线型前，需先加载相关线型;
    # 注意：不能重复加载，否则报错—'记录名重复';
    # 可利用try...except...finally...机制，处理此类报错。

LayerObj.Linetype = "ACAD_ISO08W100"
    # 设置图层线型;
    # 指定线型前，若不想以Load方式加载线型，也可在CAD程序中点击线型>其他>加载，加载全部所用线型;
    # 若既没采用Load方式也没有在CAD程序中手动加载线型，则程序会报错—'未找到主键'。
```

Five, line width setting

```
LayerObj.Lineweight = 13
    # 13表示线宽为0.01mm的13倍，即0.13mm;
    # 线宽值∈{0,5,9,13,15,18,20,25,30,35,40,50,53,60,70,80,90,100,106,120,140,158,200,211};
    # 线宽值在上述集合中选取，含义为0.01mm的整数倍；其他数值非系统默认;
    # 可以修改现有线宽，但不能添加或删除线宽，修改在CAD程序中进行。
```

Six, batch creation

登录后复制

```
clrnums = [1, 2, 3]
    # 图层颜色列表
layernames = ["HIT_图层_1", "HIT_图层_2", "HIT_图层_3"]
    # 图层名称列表

try:
    len(clrnums) == len(layernames)
except:
    print("图层颜色号个数与图层个数不匹配")

layerobjs = [acad.ActiveDocument.Layers.Add(i) for i in layernames]
    # 批量创建图层

for j in range(len(layerobjs)):
    layerobjs[j].color = clrnums[j]
    # 批量指定图层颜色
```

Seven, layer reading

```
layersnums = acad.ActiveDocument.Layers.count
    # 当前文件模型空间中所包含的图层总数
layernames = [acad.ActiveDocument.Layers.Item(i).Name for i in range(layernums)]
    # 当前文件模型空间中所包含的所有图层名称
index = layernames.index("HIT_图层_3")
    # 获取指定图层索引号
acad.ActiveDocument.ActiveLayer = acad.ActiveDocument.Layers.Item(index)
    # 将指定图层设定当前
```

Eight, the end

The above are some basic codes about AutoCAD layers . Due to limited space, some non-key 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 also attach the code in the comment area to provide more help for follow-up learners.

The Tibetan writing is full of thoughts, and there are poems and books in the belly. I hope you can wander happily in the pão 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!

This article was first published on 2018-12-13 18:20:21, as part of the blog Python secondary development AutoCAD introduction .

For clarity and intuitiveness, this article was created separately at 2019-07-20 14:16:23.

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

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