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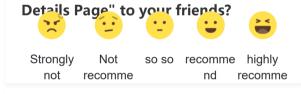
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block reference is broken into its component objects, the block definition still remains in the drawings block symbol table.

2.1. Create a new block

```
1 | grip = APoint(20, 0)
2 | blockObj = acad.ActiveDocument.Blocks.Add(grip, "HIT_Block")
            # 新建块的名称为"HIT_Block";
            # grip为块定位夹点所在位置。
```

2.2. Adding primitives to the block

```
1 center = APoint(0, 0)
2 | radius = 10
3 | CircleObj = blockObj.AddCircle(center, radius)
4 center = APoint(40, 10)
5 majAxis = APoint(10, 0, 0)
6 | EllObj = blockObj.AddEllipse(center, majAxis, 0.5)
```

2.3. Insert block

Block is inserted into the paper space as BlockReference

2.3.1. Insert a block from the current file

```
1 insertionPnt = APoint(0, 0)
2 RetVal = acad.model.InsertBlock(insertionPnt, "HIT_Block", 1, 1, 1, 0)
            # acad.model.InsertBlock(InsertionPoint, Name, Xscale, Yscale, ZScale, Rotation);
            # insertionPnt为块的插入点,即块的定位夹点与图纸空间中的该点对齐。
```

2.3.2. Inserting external files as blocks

```
1 insertionPnt = APoint(10, 0)
2 | RetVal = acad.model.InsertBlock(insertionPnt, "D:\AutoCAD\Harbin.dwg", 1, 1, 1, 0)
          # 外部文件名尽量与当前文件中的各块名称不同;
          # 插入后外部文件名将作为其在当前文件中的块名;
          # 外部文件的坐标原点为其作为块的定位夹点。
```

2.4. Adding attributes to the block

2.4.1. Add block attribute created by current file

```
1 height = 1 # 字高
2 mode = 2 # 模式
3 | prompt = "Attribute_Prompt" # 提示
4 insertionPoint = APoint(0, 0)
5 tag = "Attribute_Tag"
6 | value = "Attribute_Value" # 默认
7 | attributeObj = blockObj.AddAttribute(height, mode, prompt, insertionPoint, tag, value)
```

2.4.2. The external file is added as an attribute of the inserted block

```
1 blocks_nums = acad.ActiveDocument.Blocks.count
         # 图纸空间中块的总数目
3 | blocks_names = [acad.ActiveDocument.Blocks.Item(i).Name for i in range(blocks_nums)]
         # 图纸空间所有块的名称组成的列表
5 index = blocks_names.index("Harbin")
         # 外部文件块"Harbin"在图纸空间块中的索引号
7 | external_blockObj = acad.ActiveDocument.Blocks.Item(index)
         # external_blockObj即为外部插入到本地文件中的块
9 ex_att_Obj = external_blockObj.AddAttribute(height, mode, prompt, insertionPoint, tag, value)
```

2.5. Reading of existing block attributes

```
1 # RetVal = object.GetAttributes() 此方法在不借助其他库的情况下如何使用暂时未知;
2 # 采用把块炸开将属性部分暴露出来,然后提取其相关信息的方式获取属性信息;
3 # 此方式虽然曲折,但至少可行;
4 # 为了清晰直观,文本代码暂未考虑效率问题,故代码行数较多。
 6 # 不采用如下方式,直接炸开块会报错。
     RetVal.Explode() # 炸开块
10 except:
      RetVal.Delete() # 删除重复
12
13 | for obj in acad.iter_objects("AttributeDefinition"):
     # 以下获取块的属性信息
                                                                           奇幻盲盒
      # 如果想获取某一特定块的属性信息可以用ObjectID识别特定块
      print(obj.ObjectName)
      print(obj.TagString)
      print(obj.TextString)
     print(obj.PromptString)
                                                                            report
```

Three groups

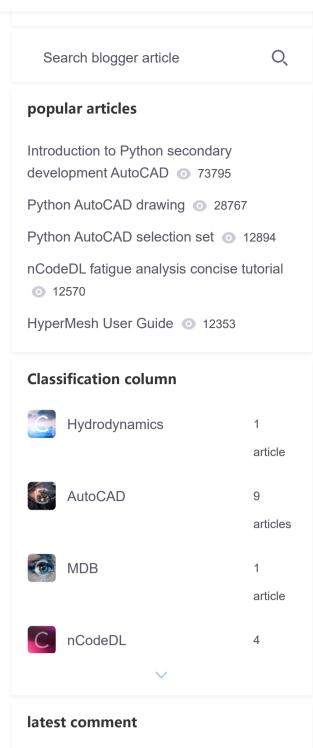
Hulunbuir (focus on)

3.1 Create a new group



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Fourth, the end

The above is about some basic codes of AutoCAD block group. 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 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!

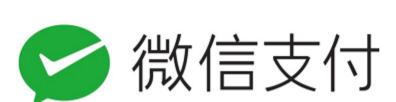
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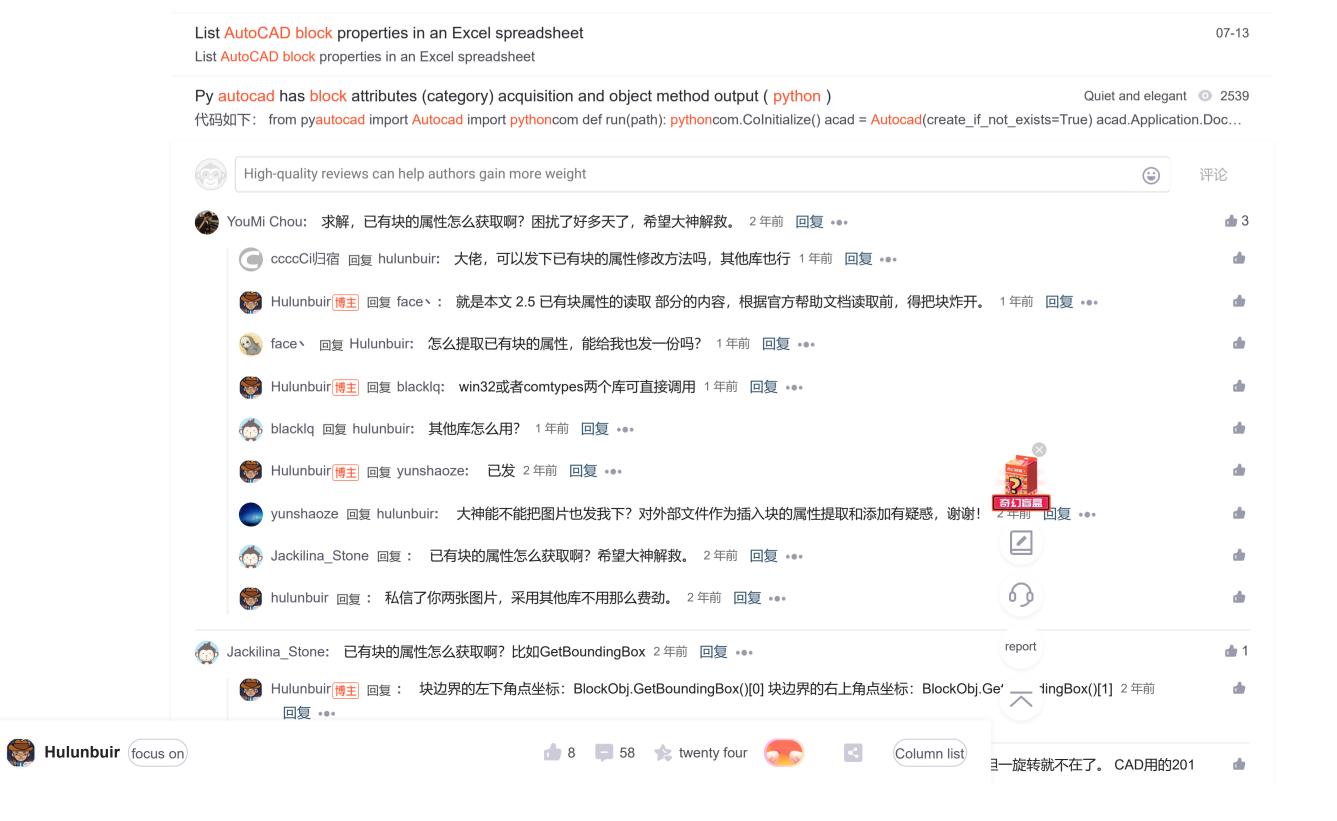
Remarks can be made to the mailbox, and I will give away all the Python source code of this series of blogs.



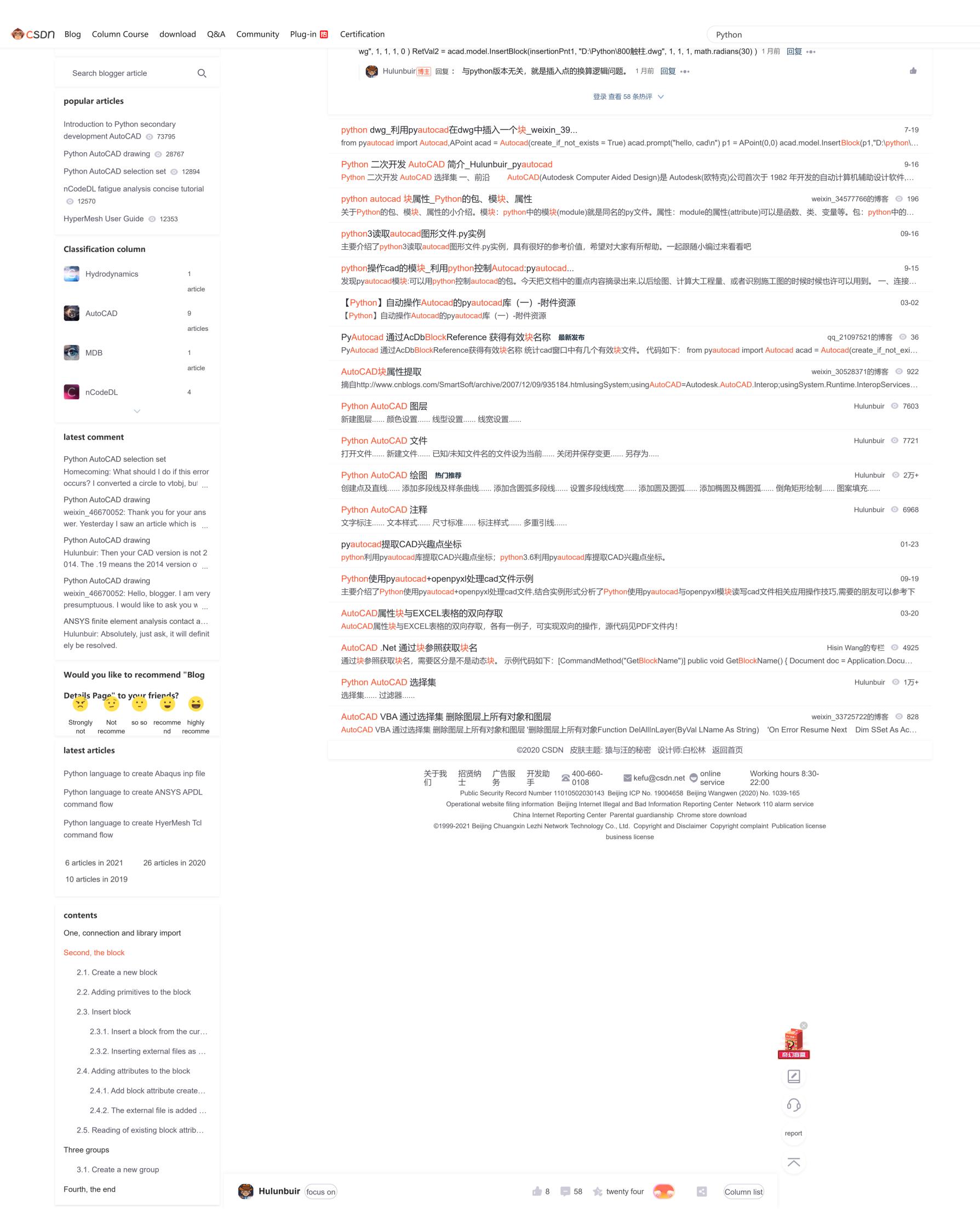




https://blog.csdn.net/Hulunbui



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