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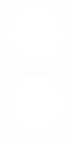
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  To create a block reference, first you must create a block definition, or block, by using the Add method. Once

of this block into your drawing using the InsertBlock method.

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report

created, you can insert an instance



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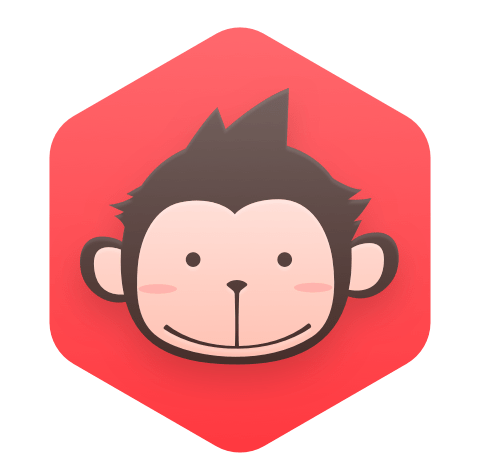
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| **contents**  One, connection and library import Second, the block   * 1. Create a new block   2. Adding primitives to the block   3. Insert block      1. Insert a block from the cur…      2. Inserting external files as … | 1 *#!/usr/bin/env python* 2 *# -\*- coding: utf-8 -\*-* 3  4 '''  5 =============================   1. Author: DalNur 2. Email: [liyang@alu.hit.edu.cn](mailto:liyang@alu.hit.edu.cn) 8 ============================= 9 '''   10  11 from pyautocad import Autocad  12   1. acad = Autocad(create\_if\_not\_exists = True) 2. acad.prompt("Hello! AutoCAD from pyautocad.") 3. print(acad.doc.Name)   **Second, the block**    What is created is Block. | | | | | |
| 2.4. Adding attributes to the block [Hulunbuir](https://dalnur.blog.csdn.net/)  2.Y4a.r1d. aAgded3byloecakrs[attribNutoeccerretiafictea…tion](https://i.csdn.net/%23/uc/profile?utm_source=14998968)  [42](https://dalnur.blog.csdn.net/) 2[1.04,.020. T0+](https://blog.csdn.net/rank/list/weekly)he [e8x4t9e3rna](https://blog.csdn.net/rank/list/total)2l 6fil0e,0is00a+dded … [Orig2in.a5l.](https://dalnur.blog.csdn.net/) [RWeeaedkinlyg](https://blog.csdn.net/rank/list/weekly) [oOf veexrisatlil](https://blog.csdn.net/rank/list/total)ngabclcoecsksattrgibra…de  [ranking](https://blog.csdn.net/rank/list/weekly) [ranking](https://blog.csdn.net/rank/list/total) Three groups  3012 992 507 867 2000  3.1. Create a new group  integral fan Praised Comment collect  Fourth, the end |
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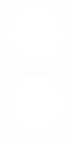
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**3.1. Create a new group**

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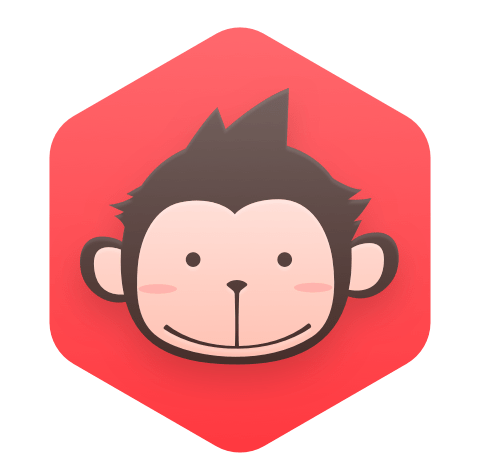
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|  | Search blogger article | block reference is broken into its component objects, the block definition still remains in the drawings block symbol table.  Your browser is currently zoomed, and the page   * 1. **Create a new block** may be misaligned. It is recommended to display   at 100% size.   * + 1. grip = APoint(20, 0)     2. blockObj = acad.ActiveDocument.Blocks.Add(grip, "HIT\_Block")     3. *#* 新建块的名称为*"HIT\_Block"*；     4. *# grip*为块定位夹点所在位置。   1. **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)    1. **Insert block**     Block is inserted into the paper space as BlockReference.   * + 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 )        3. *# acad.model.InsertBlock(InsertionPoint, Name, Xscale, Yscale, ZScale, Rotation)*；        4. *# 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. **Inserting external files as blocks**  1. insertionPnt = APoint(10, 0) 2. RetVal = acad.model.InsertBlock(insertionPnt, "D:\AutoCAD\Harbin.dwg", 1, 1, 1, 0 ) 3. *#* 外部文件名尽量与当前文件中的各块名称不同； 4. *#* 插入后外部文件名将作为其在当前文件中的块名； 5. *#* 外部文件的坐标原点为其作为块的定位夹点。    1. **Adding attributes to the block**       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" *#* 标 记          6. value = "Attribute\_Value" *#* 默 认          7. attributeObj = blockObj.AddAttribute(height, mode, prompt, insertionPoint, tag, value)       2. **The external file is added as an attribute of the inserted block** 6. blocks\_nums = acad.ActiveDocument.Blocks.count 7. *#* 图纸空间中块的总数目 8. blocks\_names = [acad.ActiveDocument.Blocks.Item(i).Name for i in range(blocks\_nums)] 9. *#* 图纸空间所有块的名称组成的列表 10. index = blocks\_names.index("Harbin") 11. *#* 外部文件块*"Harbin"*在图纸空间块中的索引号 12. external\_blockObj = acad.ActiveDocument.Blocks.Item(index) 13. *# external\_blockObj*即为外部插入到本地文件中的块 14. 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； |
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| **contents**  One, connection and library import Second, the block   * 1. Create a new block   2. Adding primitives to the block   3. Insert block      1. Insert a block from the cur…      2. Inserting external files as … | 1. *#* 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； 2. *#* 此方式虽然曲折，但至少可行； 3. *#* 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。   5  6 *#* 不采用如下方式，直接炸开块会报错。  7   1. try: 2. RetVal.Explode() *#* 炸 开 块 3. except: 4. RetVal.Delete() *#* 删除重复   12   1. for obj in acad.iter\_objects("AttributeDefinition"): 2. *#* 以下获取块的属性信息 3. *#* 如果想获取某一特定块的属性信息可以用*ObjectID*识别特定块 4. print(obj.ObjectName) 5. print(obj.TagString) 6. print(obj.TextString) 7. print(obj.PromptString)   **Three groups** | | | | | |
| 2.4. Adding attributes to the block [Hulunbuir](https://dalnur.blog.csdn.net/)  2.Y4a.r1d. aAgded3byloecakrs[attribNutoeccerretiafictea…tion](https://i.csdn.net/%23/uc/profile?utm_source=14998968)  [42](https://dalnur.blog.csdn.net/) 2[1.04,.020. T0+](https://blog.csdn.net/rank/list/weekly)he [e8x4t9e3rna](https://blog.csdn.net/rank/list/total)2l 6fil0e,0is00a+dded … [Orig2in.a5l.](https://dalnur.blog.csdn.net/) [RWeeaedkinlyg](https://blog.csdn.net/rank/list/weekly) [oOf veexrisatlil](https://blog.csdn.net/rank/list/total)ngabclcoecsksattrgibra…de  [ranking](https://blog.csdn.net/rank/list/weekly) [ranking](https://blog.csdn.net/rank/list/total) Three groups  3012 992 507 867 2000  3.1. Create a new group  integral fan Praised Comment collect  Fourth, the end |
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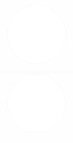
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[夏天树影](https://blog.csdn.net/mingangle)**:** 这个程序插入的块都不在原点，如果直接插入块很正常，用这程序就不对。 用外部的图做块RetVal1是在原点

[1](https://ac.csdn.net/?short_code=13271b93) groupObj = acad.ActiveDocument.Groups.Add("Harbin Institute of Technology")

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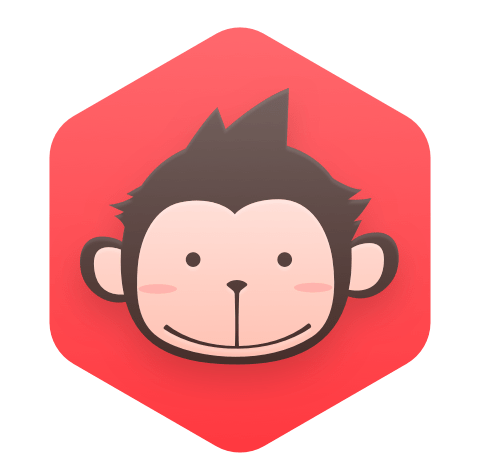
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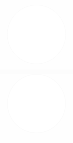
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