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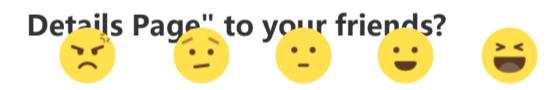
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Please indicate the source!**1. Frontier**

Annotation is the process of adding measurement annotations to the graph. We can create annotations for various objects in all directions. To simplify graphic organization and annotation scaling, it is recommended to create annotations on paper space instead of creating annotations in model space.

```

1 #!/usr/bin/env python
2 # -*- coding: utf-8 -*-
3 ...
4 ...
5 =====
6 Author: DalNur
7 Email: liyang@lzu.hit.edu.cn
8 =====
9 ...
10
11 from pyautocad import Autocad
12 from pyautocad import APoint
13 import math
14
15 acad = Autocad(create_if_not_exists = True)
16 acad.prompt("Hello! AutoCAD from pyautocad.")
17 print(acad.doc.Name)

```

Two, single-line text**2.1. Create new text**

```

1 textString = "Harb Insti of Tec"
2 insertPnt = APoint(0, 0)
3 height = 2.5
4 textObj = acad.model.AddText(textString, insertPnt, height)
5 # textString: 文本内容; height: 字高;
6 # 系统默认对齐方式时, insertPnt为对齐点的位置坐标;
7 # 采用系统默认对齐方式时, insertPnt以对齐方式中的为准;
8 # 当用户自定义对齐方式时, insertPnt以对齐方式中的为准。

```

2.2. Alignment

```

1 AlignNum = 7
2 textObj.Alignment = AlignNum
3 # AlignNum为对齐点位置标识号, 其取值范围为[0,14];
4 # 0 基线左对齐、1 基线居中对齐、2 基线右对齐;
5 # 7 表示对齐点位于 top center;
6 insertPnt = APoint(0, 10)
7 textObj.TextAlignmentPoint = insertPnt
8 # 设置对齐点在图纸空间中的绝对位置, 可为任意已知点;
9 # 若用户自定义对齐方式, 则需设置此项。

```



奇幻画册

Item	enum	Item	enum	Item	enum	Item	enum
acAlignmentLeft	0	acAlignmentMiddle	4	acAlignmentTopRight	8		acAlignmentBottomLeft
acAlignmentCenter	1	acAlignmentFit	5	acAlignmentMiddleLeft	9		acAlignmentBottomCenter
acAlignmentRight	2	acAlignmentTopLeft	6	acAlignmentMiddleCenter	10		acAlignmentBottomRight
acAlignmentAligned	3	acAlignmentTopCenter	7	acAlignmentMiddleRight	11		

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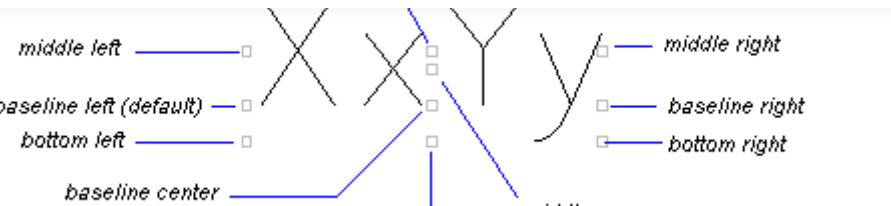
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6.3.4. Starting point offset



Align grip

2.3. Text zoom

```

1 BasePoint = insertPnt
2 ScaleFactor = 5
3 textObj.ScaleFactor = 5
4 # 水平方向文本缩放, 只即缩放字宽 (x方向), 不缩放字高 (y方向);
5 # ScaleFactor为比例系数, 非负, >1为放大, <1为缩小, 宽度因子
6 textObj.ScaleEntity(BasePoint, ScaleFactor)
7 # 两个方向同步缩放;
8 # 基点与insertPnt重合, 文字放大后对齐夹点位置保持不变。

```

Three, multi-line text

Fourth, the text style

4.1. Create text style

```
1 txtStyleObj = acad.ActiveDocument.TextStyles.Add("HIT_TxtStyle")
```

4.2. Set specific text style as current

```
1 acad.ActiveDocument.ActiveTextStyle = acad.ActiveDocument.TextStyles.Item("Standard")
```

4.3. Setting the font

4.3.1. Set the font for the current text style

```

1 acad.ActiveDocument.ActiveTextStyle.SetFont("楷体", False, False, 1, 0 or 0)
2 # acad.ActiveDocument.ActiveTextStyle.SetFont(Typeface, Bold, Italic, charSet, PitchAndFamily)
3 # Typeface 字体名称;
4 # Bold 加粗,布尔值, False为不加粗字体;
5 # Italic 倾斜,布尔值, False为倾斜字体;
6 # CharSet 字体字符集, 1为默认字符集;
7 # PitchAndFamily 字节及笔画形式。

```

4.3.2. Set the font for a specific text style

```
1 acad.ActiveDocument.TextStyles.Item("HIT_TxtStyle").SetFont("宋体", False, False, 1, 0 or 0)
```

4.4. Set font tilt angle

```

1 txtStyleObj.ObliqueAngle = math.radians(30)
2 # 倾斜角度变化范围为[-85, 85], 取正值时右偏。

```

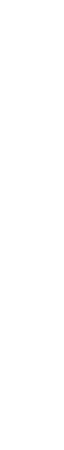
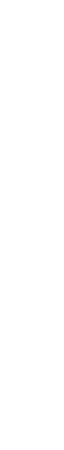
V. Dimensions

5.1. Linear and Rotational Linear Labeling

```

1 import math
2 Xline1Point = APoint(5, 25)
3 Xline2Point = APoint(25, 35)
4 DimLineLocation = APoint(10, 20)
5 RotationAngle = math.radians(0)
6 dimRotObj = acad.model.AddDimRotated(Xline1Point, Xline2Point, DimLineLocation, RotationAngle)
7 # Xline1Point 第一尺寸线的起点;
8 # Xline2Point 第二尺寸线的起点;
9 # DimLineLocation 尺寸线定位点, 尺寸线或其延长线过该点;
10 # RotationAngle 尺寸线与水平方向的夹角, 去弧度制;
11 # RotationAngle=0 水平标注, RotationAngle=90 垂直标注。

```



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6.3.4. Starting point offset

6.3. 设置尺寸线及尺寸界限

说明: 以下即(3)~(6)的设置将生效为<样式替代>, 程序自动画图时<样式替代>不起作用, 新添加的标注仍采用系统默认。手动画图时<样式替代>起作用, 新添加的标注<样式替代>。

设置永久标注样式见(7), 后续添加详细代码。

标注样式替代是对当前标注样式中的指定设置所做的更改, 它与在不更改当前标注样式的情况下更改尺寸标注系统变量等效。使用标注样式替代, 无需更改当前标注样式便可临时更改标注系统变量。

6.3.1. 超出标记

```
1 acad.ActiveDocument.SetVariable("DIMDLE", 0)
2 # 当箭头使用倾斜、建筑标记、积分和无标记时尺寸线超过尺寸界限的距离。
```

6.3.2. 基线间距

```
1 acad.ActiveDocument.SetVariable("DIMDLI", 3.75)
2 # 设定尺寸线之间的距离;
3 # 如有必要, 每条尺寸线都将按此值偏离其前一尺寸线, 以避免覆盖它。
```

6.3.3. 超出尺寸线

```
1 acad.ActiveDocument.SetVariable("DIMEXE", 1.25) # 指定尺寸界超出尺寸线的距离。
```

6.3.4. 起点偏移量

```
1 acad.ActiveDocument.SetVariable("DIMEXO", 0.625) # 设定自图形中定义标注的点到尺寸界线的偏移距离。
```

6.4. 设置箭头

6.4.1. 设定尺寸线箭头类型

```
1 acad.ActiveDocument.SetVariable("DIMBLK", "_ARCHTICK") # "_ARCHTICK"表示建筑标记
```

6.4.2. 设定引线箭头

```
1 acad.ActiveDocument.SetVariable("DIMLDRBLK", "") # ""表示实心闭合
```

6.4.3. 尺寸线箭头大小

```
1 acad.ActiveDocument.SetVariable("DIMASZ", 2.5)
```

6.5. 设置标注文字

6.5.1. 标注文字样式

```
1 acad.ActiveDocument.SetVariable("DIMTXSTY", "HIT_TxtStyle")
```

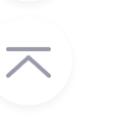
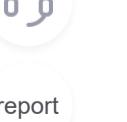
6.5.2. 标注文字高度

```
1 acad.ActiveDocument.SetVariable("DIMTXT", 2.5)
2 # 设定当前标注文字样式的高度;
3 # 如果在此选项卡上指定的字式具有固定的文字高度, 则该高度将替代在此处设置的文字高度;
4 # 如果要在此处设置标注文字的高度, 请确保将文字样式的高度设置为 0。
```



6.5.3. 标注文字位置

```
1 acad.ActiveDocument.SetVariable("DIMTAD", 1)
2 # 控制标注文字相对尺寸线的垂直位置;
3 # 0 表示标注文字在尺寸界线居中放置;
4 # 1 表示将标注文字放置在尺寸线上方, 从尺寸线到文字最低基线的距离为当前 DIMGAP 的值。
5 acad.ActiveDocument.SetVariable("DIMJUST", 0)
6 # 水平控制标注文字在尺寸线上相对于尺寸界线的水平位置;
```



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6.5.4. 标注文字对齐

```
1 acad.ActiveDocument.SetVariable("DIMTIH", 0)
2     # 控制所有标注类型(坐标标注除外)的标注文字在尺寸界线内的位置;
3     # 0 表示将文字与尺寸线对齐;
4     # 1 表示水平绘制文字。
5 acad.ActiveDocument.SetVariable("DIMTOH", 0)
6     # 控制标注文字在尺寸界线外的位置。
```

6.5.5. 标注文字替代

修改实际尺寸数值为用户自定义数值。例如：标注的实际长度为20，用户自定义的数值为171，具体代码如下：

```
1 XLine1Point = APoint(5, 25)
2 XLine2Point = APoint(25, 35)
3 DimLineLocation = APoint(10, 20)
4 RotationAngle = math.radians(0)
5 dimRotObj = acad.model.AddDimRotated(XLine1Point, XLine2Point, DimLineLocation, RotationAngle)
6
7 dimRotObj.TextOverride = 171 # 指定文字替代为171, 即171替代20。
8
9 dimRotObj.TextOverride = "" # 恢复标注为实际尺寸数值20
10
11 dimRotObj.TextOverride = "<> mm" # 恢复标注为实际尺寸数值并加个单位
12
13 dimRotObj.Update()
```



<https://blog.csdn.net/Hulunbuir>

6.6. 设置主单位**6.6.1. 线性标注精度**

```
1 acad.ActiveDocument.SetVariable("DIMDEC", 2) # 设定标注文字中的小数位数; 2 表示显示小数点后三位;
```

6.6.2. 小数分隔符

```
1 acad.ActiveDocument.SetVariable("DIMDSEP", ".") # “.”表示小数分隔符, 也可设置为“,”。
2 acad.ActiveDocument.SetVariable("DIMADEC", -1) # 设置角度标注精度与线性标注精度相同
```

6.7. 设置永久标注样式

```
1 ## (7)、设置永久标注样式
2
3 ### ①、添加三个标注样式
4 dimstyleobj_1 = DimStyleObj = acad.ActiveDocument.DimStyles.Add("newStyle1")
5 dimstyleobj_2 = DimStyleObj = acad.ActiveDocument.DimStyles.Add("newStyle2")
6 dimstyleobj_3 = DimStyleObj = acad.ActiveDocument.DimStyles.Add("newStyle3")
7
8 ### ②、为三个标注样式分别设置具体样式
9 dimstyleobj_1.CopyFrom(acad.ActiveDocument.ModelSpace(0))
10 # (方法一)
11 # 与图形空间中已存在的标注图元样式一致;
12 # 0为模型空间中的第一个图元, 此为示例;
13 # 具体操作时应替换为已知标注图元在图纸空间中的索引号。
14
15 dimstyleobj_2.CopyFrom(acad.ActiveDocument.DimStyles.Item("newStyle1"))
16 # (方法二)
17 # 与标注样式newStyle1一致
18
19 acad.ActiveDocument.SetVariable("DIMCLRD", 3) # 设置尺寸线的颜色为绿色
20 acad.ActiveDocument.SetVariable("DIMBLK", "_ARCTICK") # "_ARCTICK"表示建筑标记
21 acad.ActiveDocument.SetVariable("DIMASZ", 2) # 尺寸线箭头大小
22 dimstyleobj_3.CopyFrom(acad.ActiveDocument)
23 # (方法三)
24 # 与当前文件的设置保持一致
25
26 acad.ActiveDocument.ActiveDimStyle = acad.ActiveDocument.DimStyles.Item("newStyle3")
27
28 # 以下画出的标注即采用标注样式newStyle3
```



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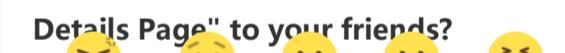
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 - 5.1. Linear and Rotational Linear La...
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- Six, label style
 - 6.1. Create a new dimension style Hulunbuir
 - 6.2. Set the style of the dimension
 - 4.2.3. Set the style of the dimension
- Original Weekly Overall access grade ranking ranking
 - 6.3.1 Out of mark
 - 6.3.2 Baseline spacing
 - 3012 992 507 867 2000 integral 6.3.3 Out of dimension line fan Praised Comment collect
- 6.3.4 Starting point offset

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 pao of knowledge.

Due to the limited personal level, there are inevitably some omissions in the article, and I also ask you 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 2019-07-26 16:21:52.

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

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Call me, it's better to call me money!

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

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<https://blog.csdn.net/Hulunbuir>

CAD secondary development LISP program source code 90 source codes

The 90 source codes of CAD secondary development LISP program source code can be used when loaded with AutoCAD . Example of learning materials!

01-06

Py autocad extracts the coordinates of CAD points of interest

01-23

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评论

qq_39934439: 您好, 我想问下 text.Alignment = 0 这个的对齐方式是怎么改变的 (或者说对齐的基准对象是谁), 因为当我是选择是默认的对齐方式的时候没有问题, 但是当我将值改成 1 之后, 就无法变成我想象的对齐方式了。9月前 回复 ...

1

Hulunbuir 博主 回复 : 同一个文本对象textobj不可能同时给定两种对齐点的位置指定。9月前 回复 ...

1

Hulunbuir 博主 回复 :

```
1 from pyautocad import Autocad
2 from pyautocad import APoint
3 acad = Autocad(create_if_not_exists = True)
4 acad.prompt("Hello! AutoCAD from pyautocad.")
5 textString = "Harb Insti of Tec"
6 insertPnt = APoint(0, 0)
7 height = 2.5
8
9 textObj1 = acad.model.AddText(textString, insertPnt, height)
10 AlignNum = 7
11 textObj1.Alignment = AlignNum
12 insertPnt = APoint(0, 10)
13 textObj1.TextAlignmentPoint = insertPnt
14
15 textObj2 = acad.model.AddText(textString, insertPnt, height)
16 AlignNum = 11
17 textObj2.Alignment = AlignNum
18 insertPnt = APoint(0, 10)
19 textObj2.TextAlignmentPoint = insertPnt
```



9月前 回复 ...

14

68

37



时还打开CAD吧? 所以我想请问
我想封装成一个参数化建模软件。

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6.3.1. Out of mark
6.3.2. Baseline spacing
6.3.3. Out of dimension line
6.3.4. Starting point offset

撤手丢: acad.ActiveDocument.SetVariable("DIMDEC", 2)大佬,为什么我设置了角度标注精度,但是最后标注的精度都还是整数? 3月前 回复 ...
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创建和编辑AutoCAD对象(VBA&python)_李济雄的博客 8-27
创建python与CAD的连接 importwin32com.clientimportpythoncom acad=win32com.client.Dispatch("AutoCAD.Application.19")doc=acad.ActiveDocument doc.Utility.Pro...
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python 帮助 autocad_python 使用pyautocad操作AutoCAD weixin_39548776的博客 231
一、python 连接AutoCAD的两种基本方法1、使用pyautocadfrom pyautocad import Autocadpyacad = Autocad(create_if_not_exists=True)pyacad.prompt("Hello! Autoca...
Python AutoCAD 图层 Hulunbuir 7603
新建图层.....颜色设置.....线型设置.....线宽设置.....
Python AutoCAD 文件 Hulunbuir 7721
打开文件.....新建文件.....已知/未知文件名的文件设为当前.....关闭并保存变更.....另存为.....
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Python AutoCAD 修改 Hulunbuir 8231
复制及删除.....平移及旋转.....镜像及缩放.....矩形阵列.....环形阵列.....
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python用于cad_python cad weixin_39995351的博客 35
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在网上找一篇关于pyautocad的,写的比较详细的教程,备份下 原文地址 首部必须 12 #!/usr/bin/env python # -*- coding: utf-8 -*- 导入pyautocad 1 importpyautocad...
前端预览文件, pdf,Word,Excel 预览 qq_43039004的博客 100
List item
使用Python操作CAD的dxr文件, 批量绘制变形图的方法记录 Paaooon的博客 1184
Using Python's ezdxf package, combined with the coordinate data in the excel table, the deformation map, table, code are drawn, and the results are as follows: DK41+...

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