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**Python AutoCAD drawing**



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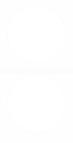
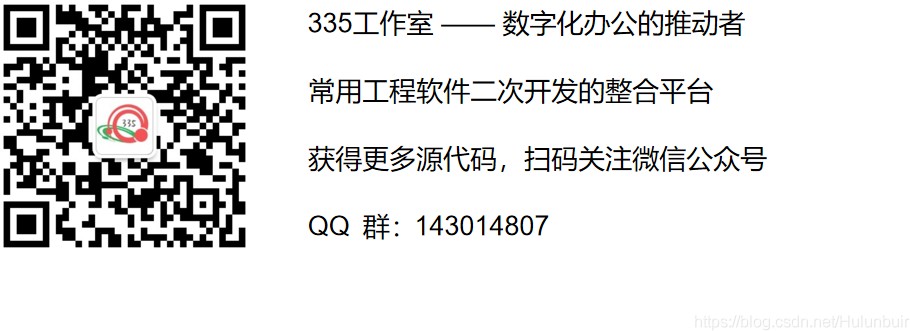
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| **contents**  3.4 draw spline curve Fourth, draw circles and arcs   * 1. Draw a circle   2. Draw arc   Five, draw ellipse and ellipse arc   * 1. Draw an ellipse   2. Draw an elliptical arc Six, entity and pattern fill   6.1 Entity Fill | | **1. Frontier** | | | | | |
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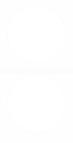
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[The](https://ac.csdn.net/?short_code=13271b93) drawing of various graphic elements is the absolute core function of CAD. CAD can mainly realize the drawing of graphic elements as

[shown in the](https://ac.csdn.net/?short_code=13271b93) figure below, including common lines, polylines, circles, pattern filling, single-line text, multi-line text, annotations, etc. .



**contents**

3.4 draw spline curve

Five, draw ellipse and ellipse arc

* 1. Circular pattern fill [Hulunbuir](https://dalnur.blog.csdn.net/)
  2. C码los龄e3d年polylin[e暂p无at认te证rn](https://i.csdn.net/%23/uc/profile?utm_source=14998968) fill

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*#!/usr/bin/env python*

*# -\*- coding: utf-8 -\*-*

Fourth, draw circles and arcs

"""

4.1 Draw a circle

4.2 Draw arc

=============================

Author: DalNur

Email: [liyang@alu.hit.edu.cn](mailto:liyang@alu.hit.edu.cn)

=============================

"""

5.1 Draw an ellipse

5.2 Draw an elliptical arc

Six, entity and pattern fill

import pythoncom

import win32com.client import math

6.1 Entity Fill

wincad = win32com.client.Dispatch("AutoCAD.Application")

doc = wincad.ActiveDocument

doc.Utility.Prompt("Hello! Autocad from pywin32com.\n") msp = doc.ModelSpace

print(doc.Name)

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[1 def](https://ac.csdn.net/?short_code=13271b93) vtpnt(x, y, z=0):

[2](https://ac.csdn.net/?short_code=13271b93) return win32com.client.VARIANT(pythoncom.VT\_ARRAY | pythoncom.VT\_R8, (x, y, z))



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1. def vtobj(obj):
2. return win32com.client.VARIANT(pythoncom.VT\_ARRAY | pythoncom.VT\_DISPATCH, obj)

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9 def vtfloat(lst):

10 return win32com.client.VARIANT(pythoncom.VT\_ARRAY | pythoncom.VT\_R8, lst)

# 二、创建点及直线

##### 设置点显示

[Hydrodynamics 1篇](https://blog.csdn.net/hulunbuir/category_11311900.html)

1. pyacad.ActiveDocument.SetVariable("PDMODE", 35) *#* 设置点样式的显示方式
2. pyacad.ActiveDocument.SetVariable("PDSIZE", 2) *#* 设置点大小

[AutoCAD 9篇](https://blog.csdn.net/hulunbuir/category_8525163.html)

[MDB 1篇](https://blog.csdn.net/hulunbuir/category_10999641.html)

[nCodeDL 4篇](https://blog.csdn.net/hulunbuir/category_9929655.html)

##### pyautocad绘直线

[Engineering Mathemat…](https://blog.csdn.net/hulunbuir/category_10559436.html)

1. startPoint = APoint(5, 8) *# z*坐标可空缺，空缺时系统默认其为*0*，即点*Pnt1*在*CAD*中坐标为（*5,25,0*）。
2. endPoint = APoint(20, 15) *# pyautocad*自动将各坐标转化为双精度浮点数。
3. lineObj = pyacad.model.AddLine(startPoint, endPoint)

[HyperMesh 2篇](https://blog.csdn.net/hulunbuir/category_9877300.html)

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startPntCoords = vtpnt(5, 5)

startPoint = msp.AddPoint(startPntCoords)

endPntCoords = vtpnt(20, 20)

endPoint = msp.AddPoint(endPntCoords)

014. The .19 means the 2014 version of ...

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1. pywin32绘直线

1 lineObj = msp.AddLine(startPntCoords, endPntCoords)

  以上代码运行后，效果如下图所示：

Strongly not

Not recomme

so so recomme

nd

highly recomme

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# 三、绘制多段线及样条曲线

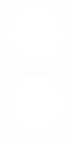


15 segmentIndex = 2 *# 0*

16 startWidth = 0.5 *#* 段起点处线宽

17 endWidth = 1.0 *#* 段终点处线宽

18 plineObj.SetWidth(segmentIndex, startWidth, endWidth) *#* 为多段线*plineObj*的第*3*段设置变宽度线宽



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| --- | --- | --- | --- |
| **contents** | | **3.1 绘制普通多段线**  1. pyautocad绘多段线 | |
| 3.4 draw spline curve | |
| Fourth, draw circles and arcs | |
| 4.1 Draw a circle | |
| 4.2 Draw arc | |
| 1 | *#* 创建图元  pnts = [APoint(5, 5), APoint(10, 5), APoint(20, 20), APoint(25, 20)]  pnts = [j for i in pnts for j in i] *#* 将各点坐标顺序变换为*1*行多列的*1*维数组。  pnts = aDouble(pnts) *#* 数据类型转化为双精度浮点数  plineObj = pyacad.model.AddPolyLine(pnts)  *#* 指定颜色  clr = pyacad.Application.GetInterfaceObject("AutoCAD.AcCmColor.19") clr.SetRGB(0, 0, 255) *#* 创建蓝色  plineObj.TrueColor = clr *#* 指定颜色  *#* 设置线宽  多段线的段号，从 起计数。 |
| Five, draw ellipse and ellipse arc | | 2 |
|  | | 3 |
| 5.1 Draw an ellipse | | 4 |
| 5.2 Draw an elliptical arc | | 5  6 |
| Six, entity and pattern fill | | 7 |
| 6.1 Entity Fill | | 8  9 |
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[19](https://ac.csdn.net/?short_code=13271b93)

[20](https://ac.csdn.net/?short_code=13271b93)

##### 21

pyacad.ActiveDocument.preferences.LineweightDisplay = 1 *#* 显示线宽

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##### 23

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1. pyacad.ActiveDocument.Application.ZoomAll()
2. pyacad.ActiveDocument.Application.Update()

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##### 2. pywin32绘多段线

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [Python AutoCAD 选择集 12894](https://dalnur.blog.csdn.net/article/details/95446723) | | | 1 | *#* 创建图元 |
|  |  | 2 | | pnts = [5, 20, 0, 10, 20, 0, 20, 5, 0, 25, 5, 0] |
| [nCodeDL 疲劳分析 简明教程](https://dalnur.blog.csdn.net/article/details/105504733) | [12570](https://dalnur.blog.csdn.net/article/details/105504733) | 3 | | points = vtfloat(pnts) |

[HyperMesh 使用指南 12353](https://dalnur.blog.csdn.net/article/details/103857457)

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plineObj = msp.AddPolyline(points)

*#* 指定颜色

clr = doc.Application.GetInterfaceObject("AutoCAD.AcCmColor.19") clr.SetRGB(255, 0, 0) *#* 创建红色

plineObj.TrueColor = clr *#* 指定颜色

*#* 设置线宽

segmentIndex = 0 *#* 多段线的段号，从*0*起计数。

startWidth = 1.0 *#* 段起点处线宽

endWidth = 0.5 *#* 段终点处线宽

plineObj.SetWidth(segmentIndex, startWidth, endWidth) *#* 为多段线*plineObj*的第*1*段设置变宽度线宽

doc.preferences.LineweightDisplay = 1 *#* 显示线宽

doc.Application.ZoomAll() doc.Application.Update()

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**3.2 绘制含圆弧多段线**

##### 详见博客：[Python 二次开发 AutoCAD 简介](https://blog.csdn.net/Hulunbuir/article/details/83715279) >> 七、绘图 >> 7.1 倒角矩形 。

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3.4 draw spline curve Fourth, draw circles and arcs

* 1. Draw a circle
  2. Draw arc

Five, draw ellipse and ellipse arc

* 1. Draw an ellipse
  2. Draw an elliptical arc Six, entity and pattern fill
  3. Entity Fill
  4. Circular pattern fill [Hulunbuir](https://dalnur.blog.csdn.net/)
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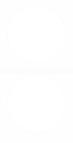
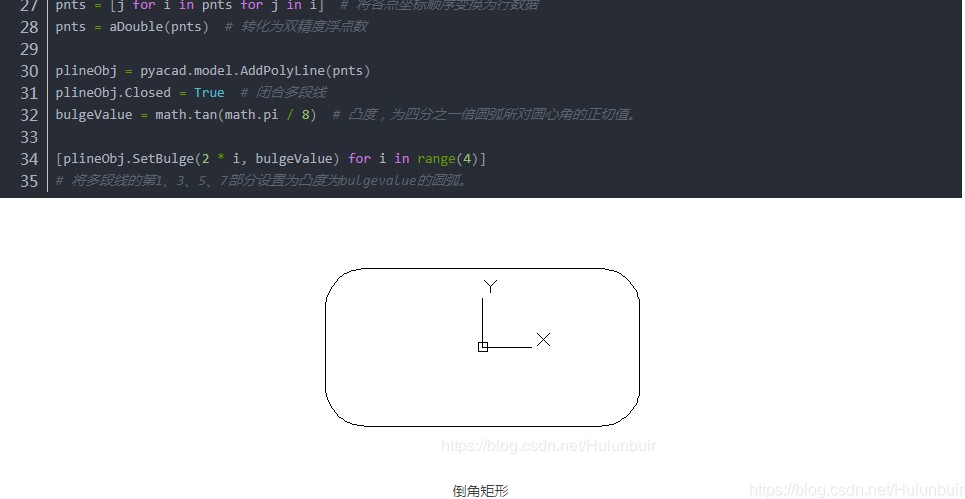
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[1](https://ac.csdn.net/?short_code=13271b93) splinePnts = [APoint(5, 12), APoint(12, 5), APoint(18, 8), APoint(25, 5)]

[2](https://ac.csdn.net/?short_code=13271b93) splinePnts = [j for i in splinePnts for j in i]

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1. splinePnts = aDouble(splinePnts)
2. startTan = APoint(1, -10) *# startTan*为样条曲线起点处切线的方向向量。
3. endTan = APoint(1, -5) *# endTan*为样条曲线终点处切线的方向向量。

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1. SplineObj = pyacad.model.AddSpline(splinePnts, startTan, endTan)

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*#* 创建图元

center = APoint(5, 5) *#* 圆 心

radius = 4 *#* 半 径

circleObj = pyacad.model.AddCircle(center, radius)

*#* 指定颜色

clr = pyacad.Application.GetInterfaceObject("AutoCAD.AcCmColor.19") clr.SetRGB(0, 0, 255) *#* 创建蓝色

circleObj.TrueColor = clr *#* 指定颜色

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###### contents

3.4 draw spline curve

Fourth, draw circles and arcs

* 1. Draw a circle
  2. Draw arc

Five, draw ellipse and ellipse arc

* 1. Draw an ellipse
  2. Draw an elliptical arc Six, entity and pattern fill

##### pywin32

* 1. center, radius = vtpnt(5, 5, 0), 2
  2. circleObj = msp.AddCircle(center, radius)

##### 3

1. *#* 指定颜色
2. clr = doc.Application.GetInterfaceObject("AutoCAD.AcCmColor.19")
3. clr.SetRGB(255, 0, 0) *#* 创建红色
4. circleObj.TrueColor = clr *#* 指定颜色
   1. Entity Fill
   2. Circular pattern fill [Hulunbuir](https://dalnur.blog.csdn.net/)
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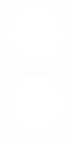
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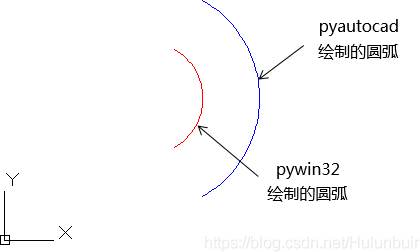
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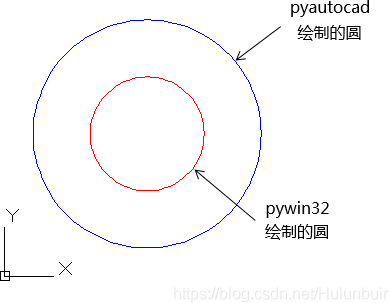
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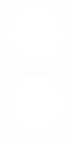
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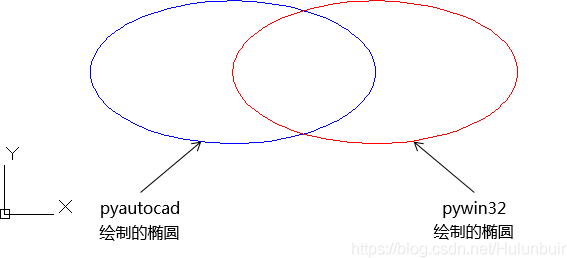
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| **contents**  3.4 draw spline curve Fourth, draw circles and arcs   * 1. Draw a circle   2. Draw arc   Five, draw ellipse and ellipse arc   * 1. Draw an ellipse   2. Draw an elliptical arc Six, entity and pattern fill   6.1 Entity Fill | | **五、绘制椭圆及椭圆弧**  **5.1 绘制椭圆** | | | | | |
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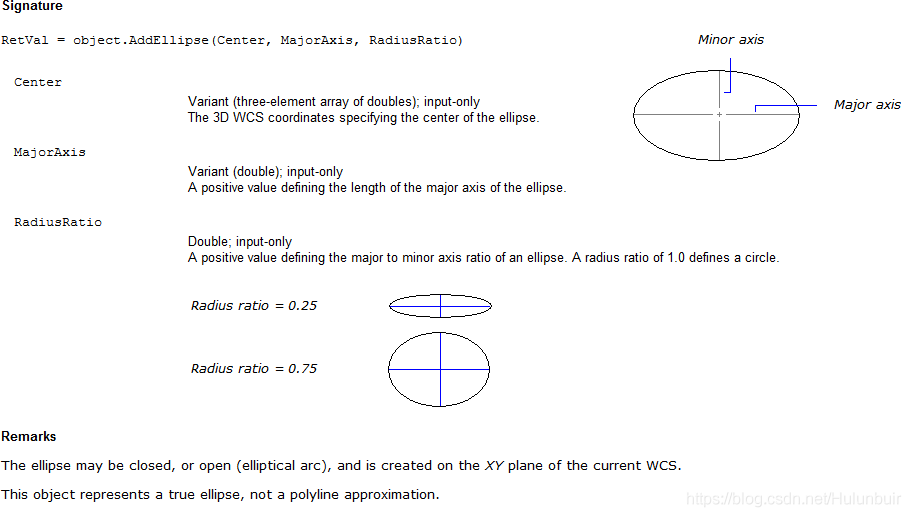
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2. pywin32



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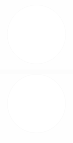
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**contents**

3.4 draw spline curve

**5.2 绘制椭圆弧**

Fourth, draw circles and arcs

* 1. Draw a circle
  2. Draw arc

1. pyautocad

Five, draw ellipse and ellipse arc

* 1. Draw an ellipse
  2. Draw an elliptical arc Six, entity and pattern fill
  3. Entity Fill
  4. Circular pattern fill [Hulunbuir](https://dalnur.blog.csdn.net/)
  5. C码los龄e3d年polylin[e暂p无at认te证rn](https://i.csdn.net/%23/uc/profile?utm_source=14998968) fill

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*#* 创建图元

center = APoint(-3, 5, 0) *#* 椭圆中心

majAxis = APoint(5, 0, 0) *# majAxis*为主轴（长轴）端点相对于椭圆中心的坐标增量。

radRatio = 0.5 *#* 短长轴之比为*0.5*

ellObj = pyacad.model.AddEllipse(center, majAxis, radRatio) ellObj.startAngle = -90 \* (3.14 / 180)

ellObj.endAngle = 90 \* (3.14 / 180)

*#* 指定颜色

clr = pyacad.Application.GetInterfaceObject("AutoCAD.AcCmColor.19") clr.SetRGB(0, 0, 255) *#* 创建蓝色

ellObj.TrueColor = clr *#* 指定颜色

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[1 *#*](https://ac.csdn.net/?short_code=13271b93) 创 建 图 元

[2](https://ac.csdn.net/?short_code=13271b93) center = vtpnt(3, 5, 0) *#* 椭 圆 中 心

majAxis = vtpnt(5, 0, 0) *# majAxis*为主轴（长轴）端点相对于椭圆中心的坐标增量。

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radRatio = 0.5 *#* 短长轴之比为*0.5*

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ellObj = msp.AddEllipse(center, majAxis, radRatio) ellObj.startAngle = 90 \* (3.14 / 180)

ellObj.endAngle = -90 \* (3.14 / 180)

*#* 指定颜色

clr = doc.Application.GetInterfaceObject("AutoCAD.AcCmColor.19") clr.SetRGB(255, 0, 0) *#* 创建红色

ellObj.TrueColor = clr *#* 指定颜色

##### 上代码运行后，效果如下图所示：

**实体及图案填充**

**体填充**

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yautocad

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*#* 创建图元

pnt1, pnt2, pnt3, pnt4 = APoint(-10, 5, 0), APoint(-10, 10, 0), APoint(-3, 5, 0), APoint(-3, 10, 0) solidObj = pyacad.model.AddSolid(pnt1, pnt2, pnt3, pnt4)

...

*#* 指定颜色

clr = pyacad.Application.GetInterfaceObject("AutoCAD.AcCmColor.19") clr.SetRGB(0, 0, 255) *#* 创建蓝色

solidObj.TrueColor = clr *#* 指定颜色

##### ywin32

*#* 创建图元

pnt1, pnt2, pnt3, pnt4 = vtpnt(3, 5, 0), vtpnt(3, 10, 0), vtpnt(10, 5, 0), vtpnt(10, 10, 0) solidObj = msp.AddSolid(pnt1, pnt2, pnt3, pnt4)

*#* 指定颜色

clr = doc.Application.GetInterfaceObject("AutoCAD.AcCmColor.19") clr.SetRGB(255, 0, 0) *#* 创建红色

solidObj.TrueColor = clr *#* 指定颜色

###### contents

3.4 draw spline curve Fourth, draw circles and arcs

* 1. Draw a circle
  2. Draw arc

Five, draw ellipse and ellipse arc

* 1. Draw an ellipse
  2. Draw an elliptical arc Six, entity and pattern fill
  3. Entity Fill
  4. Circular pattern fill [Hulunbuir](https://dalnur.blog.csdn.net/)
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##### 以上代码运行后，效果如下图所示：

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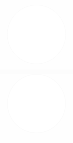
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[1](https://ac.csdn.net/?short_code=13271b93) ptnName, ptnType, bAss, center, radius = "ANSI31", 0, True, vtpnt(10, 10, 0), 7

[2](https://ac.csdn.net/?short_code=13271b93) outerLoop = []



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1. circleObj = msp.AddCircle(center, radius)
2. outerLoop.append(circleObj)

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1. outerLoop = vtobj(outerLoop)
2. hatchObj = msp.AddHatch(ptnType, ptnName, bAss)
3. hatchObj.AppendOuterLoop(outerLoop)
4. hatchObj.Evaluate() *#* 进行填充计算，使图案吻合于边界
5. hatchObj.PatternScale = 0.2 *#* 设置填充图案比例

  以上代码运行后，效果如下图所示：

* 1. **闭合多段线图案填充**

  详见博客：[Python 二次开发 AutoCAD 简介](https://blog.csdn.net/Hulunbuir/article/details/83715279) >> 七、绘图 >> 7.2 闭合多段线图案填充 。

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[weixin\_46670052:](https://blog.csdn.net/weixin_46670052) 谢谢博主的回答，昨天

，我

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# 七、绘图次序

##### The Python code for the drawing sequence example in the Autodesk AutoCAD 2014: ActiveX Reference Guide document is as follows:

* 1. Set drawing to display lineweights and create a True Color object.

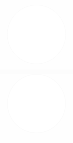
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1. doc.preferences.LineweightDisplay = 1 *#* 显示线宽
2. clr = doc.Application.GetInterfaceObject("AutoCAD.AcCmColor.19")

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **contents**  3.4 draw spline curve Fourth, draw circles and arcs   * 1. Draw a circle   2. Draw arc   Five, draw ellipse and ellipse arc   * 1. Draw an ellipse   2. Draw an elliptical arc Six, entity and pattern fill   6.1 Entity Fill | | 1. Draw a polyline   1 points = [4, 4, 0, 3, 5, 0, 6, 20, 0]   * 1. points = vtfloat(points)   2. plineObj = msp.AddPolyline(points)   3. plineObj.Lineweight = 211 *#* 设置线宽   5 clr.SetRGB(90, 110, 150)  6 plineObj.TrueColor = clr *#* 指 定 颜 色   1. Draw a line    1. startPoint = vtpnt(5, 13)    2. endPoint = vtpnt(5, 27)    3. lineObj = msp.AddLine(startPoint, endPoint)    4. lineObj.Lineweight = 211   5 clr.SetRGB(50, 80, 230)  6 lineObj.TrueColor = clr | | | | | |
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1. import pyautocad.types

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|  | [私信](https://im.csdn.net/chat/Hulunbuir) 关注 | 1. centerPoint = vtpnt(10, 15, 0) 2. radius = 5 3. circleObj = msp.AddCircle(centerPoint, radius) 4. circleObj.Lineweight = 211   5 clr.SetRGB(60, 200, 220)  6 circleObj.TrueColor = clr  7   1. doc.Application.ZoomAll() 2. doc.Application.Update()   5. Get an extension dictionary and, if necessary, add a SortentsTable object.  1 eDictionary = msp.GetExtensionDictionary()  2   1. try: 2. sentityObj = eDictionary.GetObject("ACAD\_SORTENTS") 3. except: 4. sentityObj = eDictionary.AddObject("ACAD\_SORTENTS", "AcDbSortentsTable")   7  8 ObjIds = [plineObj.ObjectID, lineObj.ObjectID, circleObj.ObjectID] *#* 获 取 图 元 *ID*   1. Move the circle object to the bottom    1. varObject = doc.ObjectIdToObject(ObjIds[2]) *#* 获取圆形图元    2. *# varObject.Delete()* 删 除 圆   3   1. varObject = vtobj([varObject, ]) 2. sentityObj.MoveToBottom(varObject) 3. doc.Application.Update()     **8. Other** | Your browser is currently zoomed, and the page may be misaligned. It is recommended to display at 100% size. |
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1. pyautocad.types.distance(Pnt1, Pnt2) *#* 计算点*Pnt1*和点*Pnt2*间的距离

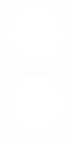
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1. print(Pnt1)
2. print(tuple(Pnt1)) *#* 将点*Pnt1*坐标转化为元组
3. print(list(Pnt1)) *#* 将点*Pnt1*坐标转化为列表
4. print(Pnt1+Pnt2) *#* 两点对应坐标相加，也支持其他数学运算。

##### 7

8 LineObj.layer = "Python" *#* 指定图层

# Nine, the end



##### The above is a brief introduction to the Python secondary development of AutoCAD drawing .

  Due to limited space, some non-critical functions have not been introduced in detail. If you have any questions, please email to: [liyang@alu.hit.edu.cn](mailto:liyang@alu.hit.edu.cn) .



   The realization of some functions in this article can not be separated from the great help of **ke1078** students. Sroepmoret functions seem simple, but

the first realization is quite **difficult** .

##### summary of one's own phased

  In view of the relatively small number of related sample codes, this article is featured, on the one hand, it is a

learning, on the other hand, it is to provide more reference for those in need.



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

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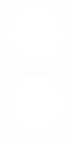
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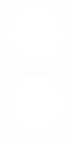
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8. Other Nine, the end

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