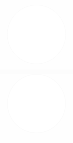
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# 1. Frontier

## If the user wants to delete, copy, move and other existing objects, he needs to select the operated object. The process of selecting objects or filtering operation objects is called constructing a selection set. Selecting objects can select only one object or multiple objects at the same time. Commonly used construction selection sets in AutoCAD have multiple methods such as direct picking, window, window crossing, and column selection. [1]



  This article briefly introduces several commonly used selection objects in the process of CAD secondary development, namely the method of constructing  selection sets.

**Second, the way to connect to CAD**

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## c code is as follows:

cifi

  In order to ensure the smooth operation of the code, this article uses the win32com library to connect to the CAD, the spe

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5 =============================

1. Author：DalNur
2. Email: [liyang@alu.hit.edu.cn](mailto:liyang@alu.hit.edu.cn) 8 ============================= 9 '''

## 10

1. import win32com.client
2. import pythoncom

## 13

1. acad = win32com.client.Dispatch("AutoCAD.Application.19")
2. *# AutoCAD.Application.19* 为 *ProgID*
3. doc = acad.ActiveDocument
4. doc.Utility.Prompt("Hello AutoCAD\n")
5. mp = doc.ModelSpace
6. print(doc.Name)

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**2.1. ProgID**

  Depending on the CAD version, ProgID may change. The ProgID of some versions of CAD is as follows:

|  |  |
| --- | --- |
| **AutoCAD version** | **ProgID** |
| 2010 | AutoCAD.Application.18 |
| 2014 | AutoCAD.Application.19 |

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[ANSYS finite element analysis contact a…](https://dalnur.blog.csdn.net/article/details/106314787#comments_18101596) [Hulunbuir:](https://dalnur.blog.csdn.net/) Absolutely, just ask, it will definit ely be resolved.

...

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  For the ProgID of common versions of CAD, please refer to the blog post: [autocad application version](https://blog.csdn.net/xiaokcehui/article/details/48492915) .

  The ProgID of other versions of CAD can be viewed in the official secondary development help document. The specific search location is shown in the figure below.

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## [For details on how to obtain the official secondary development help documents, please refer to the blog post: Introduction to the Use of Python pyautocad Library Frontier Part.](https://blog.csdn.net/Hulunbuir/article/details/83715279)

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# Three, data conversion

## Note: I am not a computer professional. Some of the expressions in the article may not be rigorous or even wrong. Please forgive me.

  There are fewer data types in Python, and the requirements for the data itself are relatively loose. For example, each element in a list can belong to different data types. Although this is helpful to reduce the difficulty of programming, it is also a secondary problem for CAD. Development has caused some unnecessary troubles.

**contents**

Fourth, create test primitives Five, create a selection set Six, conventional choices

* 1. Screen picking
  2. Selected fixed-point primitives
  3. Polygon frame selection
  4. Select All

  In the process of CAD secondary development, many function/method parameters require the input data type to be ***Variant (array of objects)*** , but there does not seem to be a data type directly corresponding to it in Python. If you use ***list*** instead of ***Variant*** , Then the program cannot be executed smoothly, and the error is " Invalid object array ". Therefore, a certain conversion method is needed to convert the variables defined in Python to the data type ***Variant*** that can be recognized by CAD .

  The VARIANT structure is mainly used in COM (Component Object Model) for passing parameters. Its existence is mainly to maintain the unity of the COM parameter passing method. It almost contains the transfer of all common common types of data types. , Such as integer, floating point, boolean, etc., and the corresponding type of pointer type, such as integer pointer. [3]

Seven, quick selection

[Hulunbuir](https://dalnur.blog.csdn.net/)

* 1. Syntax

Yard age 3 years [No certification](https://i.csdn.net/%23/uc/profile?utm_source=14998968)

* 1. DXF group code

## The corresponding relationship between some types and variables is as follows:

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VT\_EMPTY Indicates that a value was not specified.

N3in0e1,2thank9s92

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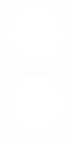
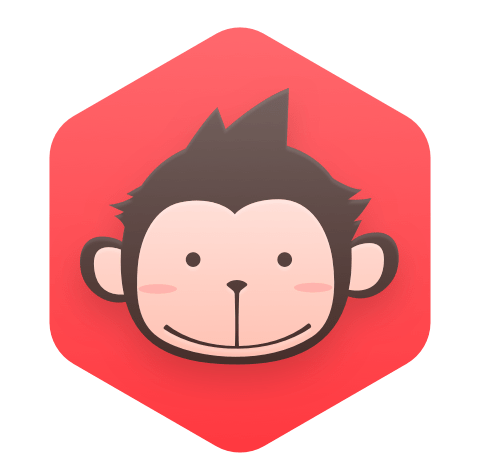
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VT\_R8 Indicates a double value.



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VT\_DISPATCH Indicates an IDispatch pointer.

  In addition, NumPy arrays can be passed as VARIANT arrays arguments. The array is converted to a SAFEARRAY according to its type. [4] (This is the original text of the comptypes library help document. I have limited knowledge of computers. In order not to misinterpret the original text, I will not Do translation), part of the correspondence is as follows:

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|  |  |
| --- | --- |
| **NumPy type** | **VARIANT type** |
| int32, int, intc, int\_ | VT\_I4 |
| uint32, uint, uintc | VT\_UI4 |
| float64, float\_ | VT\_R8 |

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## comtypes 是一个轻量级的 python com 包，其中文网站详见：<https://www.cnpython.com/pypi/comtypes>；官方文档详见：[comtypes 1.1.3 documentation](https://pythonhosted.org/comtypes) 。

  NumPy 是用 Python 进行科学计算的基础软件包，其官方的中文文档详见网站： [Numpy 中文网](https://www.numpy.org.cn/) 。

  本文用到的数据转化函数代码如下：

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

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def vtpnt(x, y, z=0):

"""坐标点转化为浮点数"""

return win32com.client.VARIANT(pythoncom.VT\_ARRAY | pythoncom.VT\_R8, (x, y, z))

def vtobj(obj):

"""转化为对象数组"""

return win32com.client.VARIANT(pythoncom.VT\_ARRAY | pythoncom.VT\_DISPATCH, obj)

def vtFloat(list):

"""列表转化为浮点数"""

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

def vtInt(list):

"""列表转化为整数"""

return win32com.client.VARIANT(pythoncom.VT\_ARRAY | pythoncom.VT\_I2, list)

def vtVariant(list):

"""列表转化为变体"""

return win32com.client.VARIANT(pythoncom.VT\_ARRAY | pythoncom.VT\_VARIANT, list)

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  其他数据类型的转化方式可查询 PyWin32 的官方帮助文档，它的获取方式如下：首先确保你已经成功安装了 [**pywin32**](https://www.cnblogs.com/achillis/p/10462585.html) 模块，然后在搜索神器 [**Everything**](https://www.onlinedown.net/soft/85579.htm) 的搜索栏中输入 PyWin32.chm，便可得到其所在的路径，打开文件 PyWin32.chm，在搜索栏中输入 pythoncom.VT\_ARRAY ， 便可查看各种数据类型的转化。

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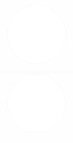
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6 ArcObj = mp.AddArc(pnt4, 50, 0, 1.57)

7 EllObj = mp.AddEllipse(pnt5, pnt6, 0.5)



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| **contents**  Fourth, create test primitives Five, create a selection set Six, conventional choices   * 1. Screen picking   2. Selected fixed-point primitives   3. Polygon frame selection   4. Select All | **四、创建测试图元** | | VARIANT的查询 |  |  |
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| 1  2  3  4  5 | [pnt1, pnt2, pnt3, pnt4, pnt5, pnt6] = [vtpnt(-40, -40), vtpnt(500, 500), vtpnt(300, 200),  vtpnt(600, 200), vtpnt(700, 200), vtpnt(100, 0)]  LineObj = mp.AddLine(pnt1, pnt2)  CircleObj = mp.AddCircle(pnt3, 100) | | | |
| [**Hulunbuir**](https://dalnur.blog.csdn.net/)focus on | | 15 65 | 54 | Column list |



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Selects the most recent selection set. This mode is ignored if you switch between paper space and model

acSelectionSetPrevious 3

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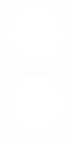
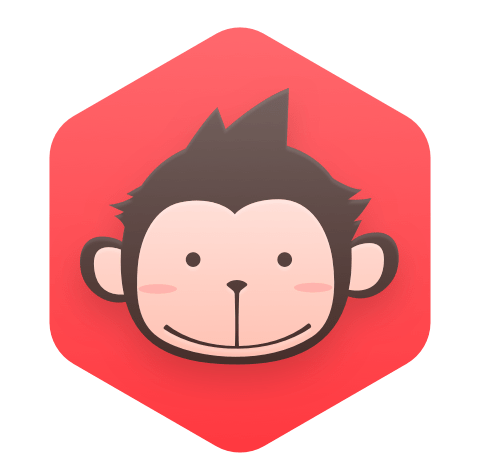
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|  |  |  |
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|  | Search blogger article | **五、创建选择集**  Your browser is currently zoomed, and the page    创建名称为 SS1 的选择集。 may be misaligned. It is recommended to display  at 100% size.   1. try: 2. doc.SelectionSets.Item("SS1").Delete() 3. except: 4. print("Delete selection failed")   5  6 slt = doc.SelectionSets.Add("SS1")  **六、常规选择**   * 1. **屏幕拾取**      1. slt.SelectOnScreen()      2. print("请在屏幕拾取图元，以Enter键结束")      3. obj = slt[0]      4. print(obj.ObjectID)      5. print(slt)   2. **选择过定点图元**  1. pnt = APoint(0, 0) 2. slt.SelectAtPoint(pnt) 3. obj = slt[0] 4. print(obj.StartPoint) *#* 当不止一个图元过点*pnt*时，*slt*中的元素也不止一个。   **6.3. 多边形框选**    多边形由给定各点依次连直线形成，最终实现该多边形区域内的全选。  1 pnts = [-50, -50, 0, -50, 550, 0, 550, 550, 0, 550, -50, 0, -50, -50, 0]  2 pnts=vtFloat(pnts)  3  4 slt.SelectByPolygon(6, pnts) *# acSelectionSetWindowPolygon = 6*  5   1. obj = slt[0] 2. print(obj.ObjectID) 3. obj = slt[1] 4. print(obj.ObjectID)    1. **全选**       1. slt.Select(5) *# acSelectionSetAll = 5*       2. obj = slt[0]       3. print(obj.layer)   **七、快速选择**  **7.1. 语法** |
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object.Select(*Mode*, *Point1*, *Point2*, *FilterType*, *FilterData*)

   - object：SelectionSet. The object this method applies to 。

   - Mode：选择模式，AcSelect enum，具体含义下表。

   - Point1：3维坐标点。

   - Point2：3维坐标点。

   - FilterType：A DXF group code specifying the type of filter to use 。

Seven, quick selection

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Yard age 3 years

   - FilterData：The value to filter on 。

[7.1.](https://dalnur.blog.csdn.net/) Syntax

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7.2. DXF group code

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Column list

ace and attempt to use the selection

Selects objects within and crossing a rectangular area whose corners are defined by Point1 and Point2.

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acSelectionSetCrossing

report

Selects all objects completely inside a rectangular area whose corners are defined by Point1 and Point2.

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acSelectionSetWindow

**Description**

**enum**

**Mode**

**contents**

Fourth, create test primitives Five, create a selection set Six, conventional choices

* 1. Screen picking
  2. Selected fixed-point primitives
  3. Polygon frame selection
  4. Select All

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[Private](https://im.csdn.net/chat/Hulunbuir) [letters](https://edu.csdn.net/) [focus on](https://download.csdn.net/) **Mode enum Description**



acSelectionSetLast 4 Selects the most recently created visible objects.

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acSelectionSetAll 5 Selects all objects.

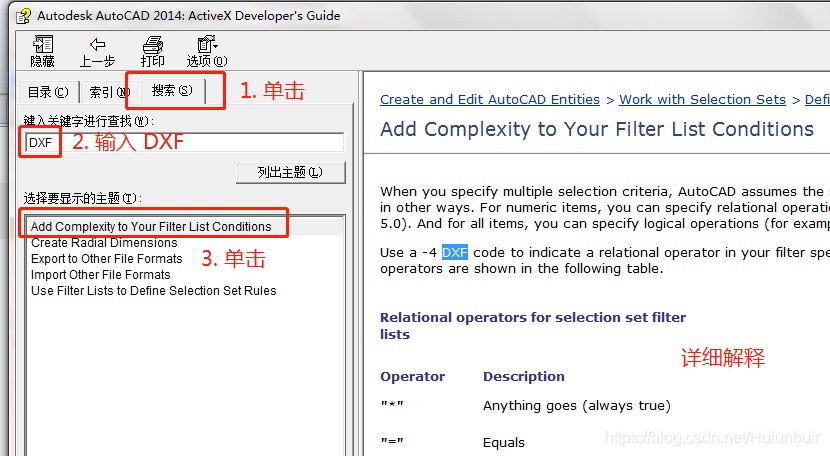
* 1. **DXF组码**

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## 详见：[CADVBA中的选择集过滤及DXF组码表](https://wenku.baidu.com/view/37aabeee52d380eb63946db8.html) 。

[CAD中的选择集过滤----有条件选择AutoCAD实体 (二)](https://www.cnblogs.com/jdmei520/articles/1326120.html) 。

  此外，在二次开发帮助文档 ActiveX Developer’s Guide 中，搜索 DXF ，便可得到官方的权威解释，操作如下：

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* 1. **实例**

  选择 0 图层上所有半径大于 5 的圆并删除，代码如下：

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filterType = [0, -4, 40, 8] *#* 定义过滤类型

filterData = ["Circle", ">=", 5, "0"] *#* 设置过滤参数

filterType = vtInt(filterType) *#* 数据类型转化

filterData = vtVariant(filterData) *#* 数据类型转化

slt.Select(5, 0, 0, filterType, filterData) *#* 实现过滤

obj = slt[0]

print(obj.Diameter)

slt.Erase() *#* 删除符合条件的所有圆

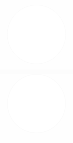
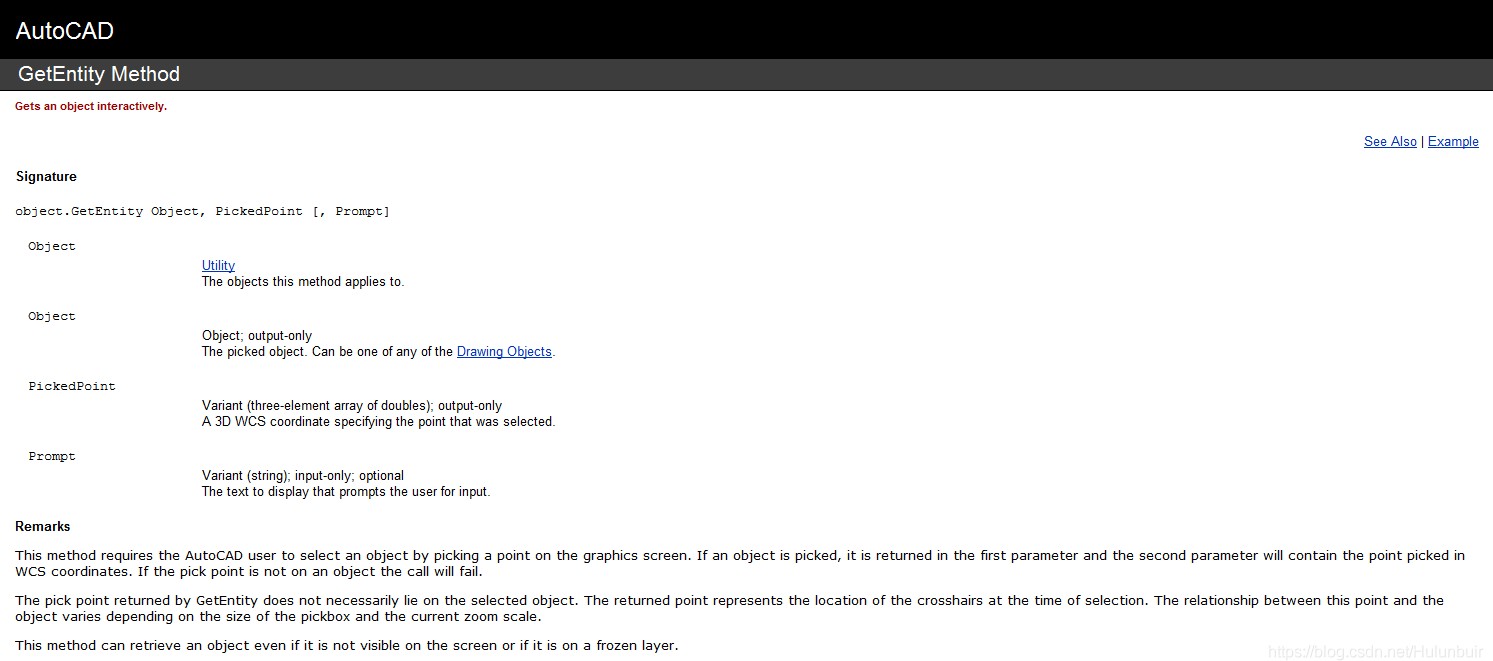
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# 八、GetEntity



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| **contents**  Fourth, create test primitives Five, create a selection set Six, conventional choices   * 1. Screen picking   2. Selected fixed-point primitives   3. Polygon frame selection   4. Select All | 以下代码实现将用户选择的图元的颜色更改为红色。 | | | | | |
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[1 print](https://t.csdnimg.cn/Jd6W)[("请在屏幕中鼠标左键点选图元，未选中则报错](https://ac.csdn.net/?short_code=13271b93)!") *# try...except*处理报错

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3

4 print(rtnObj)

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## 5

1. print("所选图元的ID：", rtnObj[0].ObjectID)
2. print("鼠标单击处的坐标：", rtnObj[1])

## 8

9 sltObject = doc.ObjectIdToObject(rtnObj[0].ObjectID) *#* 图元*ID*转化为对应的图元

## 10

1. clr = doc.Application.GetInterfaceObject("AutoCAD.AcCmColor.19")
2. clr.SetRGB(255, 0, 0) *#* 创建红色
3. sltObject.TrueColor = clr *#* 指定颜色

## 14

15 doc.Application.Update()

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**十、尾声**

  以上，便是关于 AutoCAD 选择集 的一些基本代码，因篇幅有限，某些非关键功能未做详细介绍，如有疑问，欢迎邮件来询。

  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 thoughts, 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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**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.**

Strongly not

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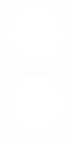
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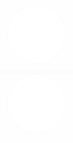
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