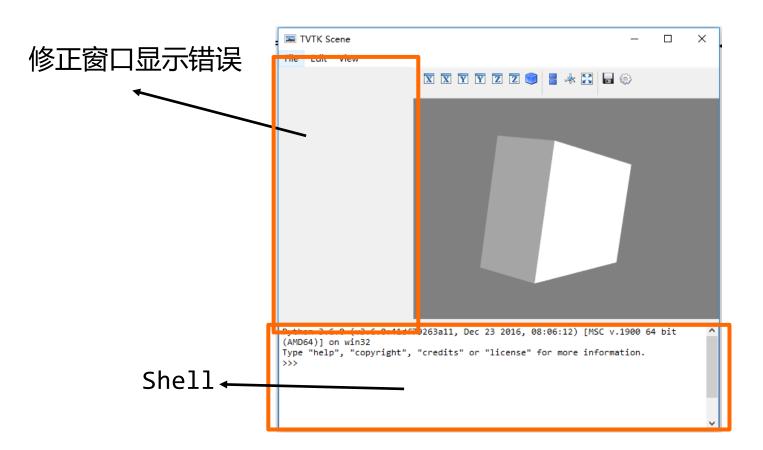




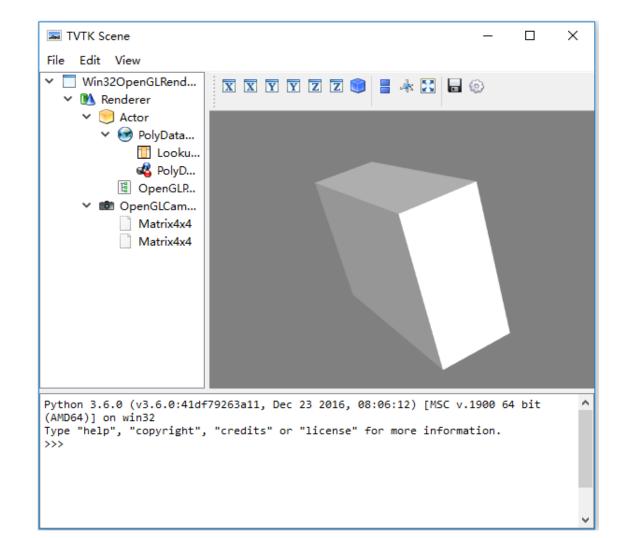
使用ivtk显示立方体的程序

```
from tvtk.api import tvtk
from tvtk.tools import ivtk
from pyface.api import GUI
s = tvtk.CubeSource(x_length=1.0, y_length=2.0, z_length=3.0)
m = tvtk.PolyDataMapper(input connection=s.output port)
a = tvtk.Actor(mapper=m)
#创建一个带Crust (Python Shell) 的窗口
gui = GUI()
win = ivtk.IVTKWithCrustAndBrowser()
win.open()
win.scene.add_actor(a)
#开始界面消息循环
gui.start_event_loop()
```



```
from tvtk.api import tvtk
from tvtk.tools import ivtk
from pyface.api import GUI
s = tvtk.CubeSource(x_length=1.0, y_length=2.0, z_length=3.0)
m = tvtk.PolyDataMapper(input connection=s.output port)
a = tvtk.Actor(mapper=m)
#创建一个带Crust (Python Shell) 的窗口
gui = GUI()
win = ivtk.IVTKWithCrustAndBrowser()
win.open()
win.scene.add_actor(a)
#修正错误
dialog = win.control.centralWidget().widget(0).widget(0)
from pyface.qt import QtCore
dialog.setWindowFlags(QtCore.Qt.WindowFlags(0x00000000))
dialog.show()
#开始界面消息循环
```

#月知亦岡用忌帽亦 gui.start_event_loop()



```
from tvtk.api import tvtk
def ivtk_scene(actors):
    from tvtk.tools import ivtk
    #创建一个带Crust (Python Shell) 的窗口
    win = ivtk.IVTKWithCrustAndBrowser()
    win.open()
    win.scene.add actor(actors)
    #修正窗口错误
    dialog = win.control.centralWidget().widget(0).widget(0)
    from pyface.qt import QtCore
    dialog.setWindowFlags(QtCore.Qt.WindowFlags(0x00000000))
    dialog.show()
    return win
def event loop():
    from pyface.api import GUI
    gui = GUI()
    gui.start_event_loop()
s = tvtk.CubeSource(x length=1.0, y length=2.0, z length=3.0)
m = tvtk.PolyDataMapper(input_connection=s.output_port)
a = tvtk.Actor(mapper=m)
win = ivtk_scene(a)
win.scene.isometric view()
```

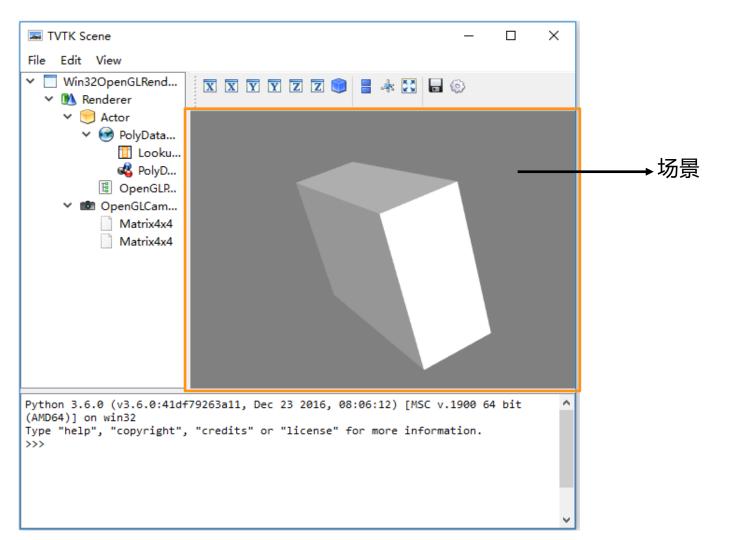
event_loop()

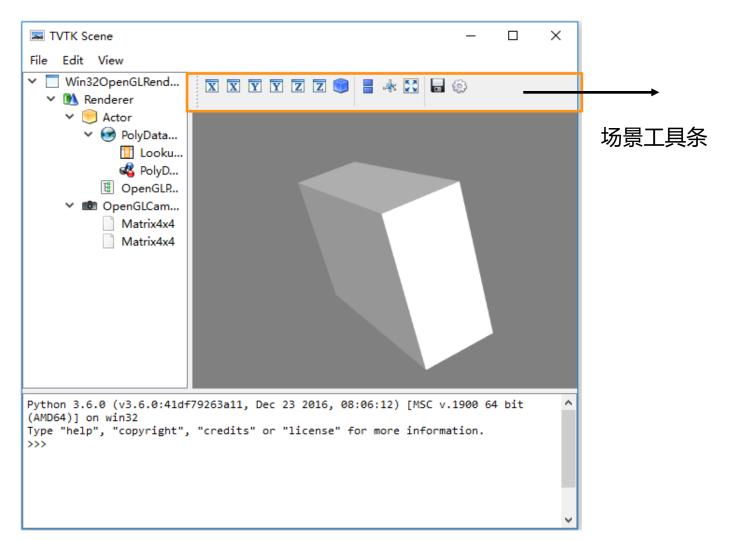
cube ivtk func.py

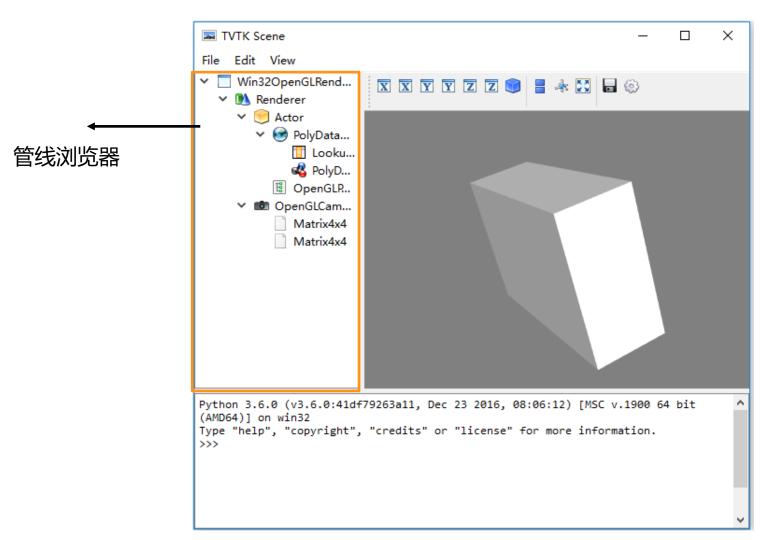
```
from tvtk.api import tvtk
def ivtk scene(actors):
   from tvtk.tools import ivtk
   #创建一个带Crust (Python Shell) 的窗口
   win = ivtk.IVTKWithCrustAndBrowser()
    win.open()
   win.scene.add_actor(actors)
   #修正窗口错误
    dialog = win.control.centralWidget().widget(0).widget(0)
   from pyface.qt import QtCore
    dialog.setWindowFlags(QtCore.Qt.WindowFlags(0x00000000))
    dialog.show()
    return win
def event loop():
    from pyface.api import GUI
    gui = GUI()
   gui.start event loop()
s = tvtk.CubeSource(x length=1.0, y length=2.0, z length=3.0)
m = tvtk.PolyDataMapper(input connection=s.output port)
a = tvtk.Actor(mapper=m)
win = ivtk_scene(a)
win.scene.isometric_view()
event_loop()
```

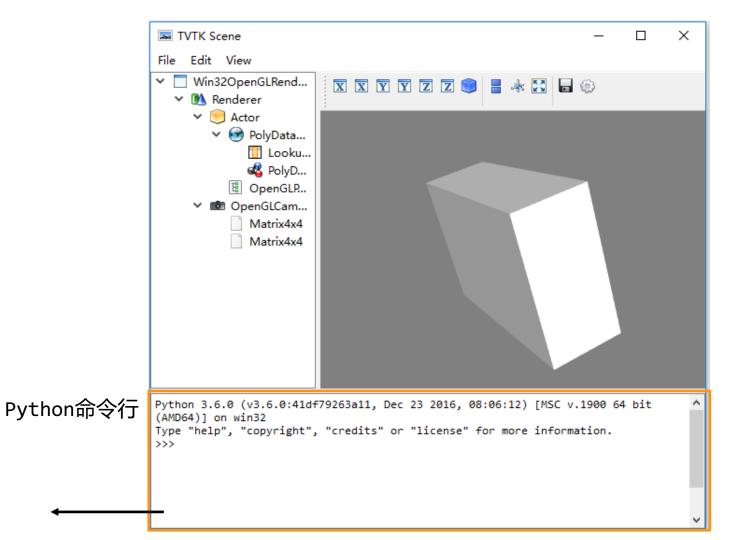
tvtkfunc.py

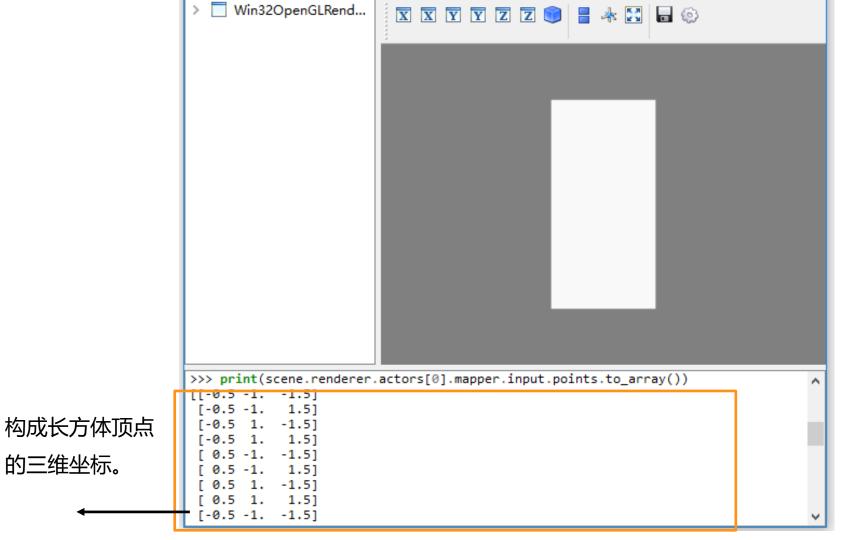
```
def ivtk scene(actors):
                 from tvtk.tools import ivtk
                 #创建一个带Crust (Python Shell) 的窗口
                 win = ivtk.IVTKWithCrustAndBrowser()
                 win.open()
                 win.scene.add actor(actors)
                 #修正窗口错误
                 dialog = win.control.centralWidget().widget(0).widget(0)
                 from pyface.qt import QtCore
                 dialog.setWindowFlags(QtCore.Qt.WindowFlags(0x00000000))
                 dialog.show()
                 return win
              def event loop():
                 from pyface.api import GUI
                 gui = GUI()
                 gui.start_event_loop()
from tvtkfunc import
            cube ivtk.py
             from tvtk.api import tvtk
             from tvtkfunc import ivtk scene, event loop
             s = tvtk.CubeSource(x length=1.0, y length=2.0, z length=3.0)
             m = tvtk.PolyDataMapper(input connection=s.output port)
             a = tvtk.Actor(mapper=m)
             win = ivtk_scene(a)
             win.scene.isometric view()
             event loop()
```











的三维坐标。

照相机

a Edit OpenGLCamera	pro	perties				- 🗆 X
					٧	/iew type: Basic ▼
Parallel projec	tion	.:				
Use horizontal view s	mgle	: 🗌				
Use off axis projec	tion	d 🔲				
Clipping range:	FO:	4. 51283704298	F1:	10. 6640045573		
Distance:	7.2	28327006020398				
Eye angle:	2.0					
Eye separation:	0.0	6				
Focal disk:	1.0					
Focal point:	FO:	0.0	F1:	0.0	F2:	0.0
Freeze focal point:					'	
Left eye:	1					
Parallel scale:	1.8	708286933869707				
Position:	F0:	5.50392592517	F1:	4. 38938519296	F2:	1.63975862372
Screen bottom left:	FO:	-0.5	F1:	-0.5	F2:	-0.5
Screen bottom right:	FO:	0.5	F1:	-0.5	F2:	-0.5
Screen top right:	F0:	0.5	F1:	0.5	F2:	-0.5
Thickness:	6.1	51167514308318				
Use scissor:						
View angle:	30.	0				
View shear:	F0:	0.0	F1:	0.0	F2:	1.0
View up:	FO:	-0.161234318992	F1:	-0.161539041575	F2:	0.973605994449
Window center:	FO:	0.0	F1:	0.0		
						OK Cancel

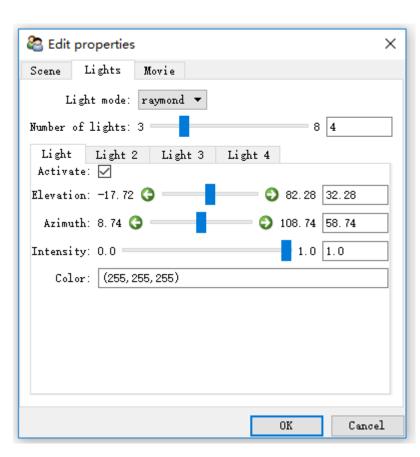
照相机属性

属性	说明	
clipping_plane	它有两个元素,分别表示照相机到近、远两个裁剪平面的距离。在这两个平面范围之外将不会显示	
position	照相机在三维空间中的坐标	
focal_point	照相机所聚焦的焦点坐标	
view_up	照相机的上方向矢量	

实体Actor

a Edit Actor properties				×
			View type: Basic	•
Force opaque: Force translucent: Use bounds: Visibility:				
Estimated render time:	0.0			
Orientation:	FO: 0.0	F1: -0.0	F2: 0.0	
Origin:	FO: 0.0	F1: 0.0	F2: 0.0	
Position:	FO: 0.0	F1: 0.0	F2: 0.0	
Render time multiplier:	0. 742856487232333			
Scale:	FO: 1.0	F1: 1.0	F2: 1.0	
			OK (Cancel

光源



场景

a Edit properties					
Scene	Lights Mo	vie			
	Background:	(127, 127, 127)			
	Foreground:	(255, 255, 255)			
	el projection:				
	sable render:				
UII SCr	een rendering:		.		
т	Jpeg quality:				
	g progressive:		.		
ı	Magnification:	1			
Anti ali	asing frames:	0 20 8			
	Full Screen				
		OK Cancel			