数据可视化——利用blender实现三维数据动

ш

循环

```
import bpy
from random import randint

bpy.ops.object.select_all(action='SELECT')
bpy.ops.object.delete(use_global=False)

number = 10
for i in range(0, number):
    x = randint(-10, 10)
    y = randint(-10, 10)
    z = randint(-10, 10)
    bpy.ops.mesh.primitive_monkey_add(location=(x, y, z))
    bpy.ops.object.subdivision_set(level=2, relative=False)
    bpy.ops.object.shade_smooth()
```

表格数据-3D

```
import bpy
import csv
#bpy.context.scene.tool_settings.transform_pivot_point = 'CURSOR'
print("----")
with open(r'C:\Users\sample.csv') as f:
   data = list(csv.reader(f))
n = 1
for i in data:
   bpy.ops.mesh.primitive_cube_add()
   bpy.ops.transform.translate(value= (n , 0 , 0))
   bpy.context.object.scale = (1, 0, 1)
   bpy.context.scene.frame_set(0)
   bpy.ops.anim.keyframe_insert(type = 'LocRotScale')
   bpy.context.scene.frame_set(100)
   bpy.context.object.scale = (1, float(i[1]), 1)
   bpy.ops.transform.translate(value= (0 , float(i[1]) , 0))
   bpy.ops.anim.keyframe_insert(type = 'LocRotScale')
```

```
bpy.ops.object.text_add(enter_editmode=False, align='WORLD', location=(n-
0.5, -1, 0))
bpy.context.object.data.body = i[0]
n += 3
```

作业

