1、安装库文件

pip install xlrd xlwt openpyxl

一、2003以前的表格以.xls后缀,用xlwt来写表格,用xlrd来读取表格;2007的表格以.xlsx后缀,用openpyxl来读写表格。

二、xlrd使用介绍

1、导入模块

import xlrd

2、打开Excel文件读取数据

data = xlrd.open workbook('excelFile.xls')

3、使用技巧

获取一个工作表

table = data.sheets()[0] #通过索引顺序获取

table = data.sheet by index(0) #通过索引顺序获取

table = data.sheet by name(u'Sheet1')#通过名称获取

获取整行和整列的值(数组)

table.row values(i)

table.col values(i)

获取行数和列数

nrows = table.nrows

ncols = table.ncols

循环行列表数据

for i in range(nrows):

print table.row_values(i)

单元格

cell A1 = table.cell(0,0).value

cell C4 = table.cell(2,3).value

使用行列索引 cell_A1 = table.row(0)[0].value cell_A2 = table.col(1)[0].value 简单的写入 row = 0 col = 0 # 类型 0 empty,1 string, 2 number, 3 date, 4 boolean, 5 error ctype = 1 value = '单元格的值' xf = 0 # 扩展的格式化 table.put_cell(row, col, ctype, value, xf) table.cell(0,0) #单元格的值' table.cell(0,0).value #单元格的值'

三、代码试例

```
1 #!/usr/bin/python
2 # coding:utf-8
3 # @author : csl
4 # @date : 2018/03/26 22:02
5 '''Excel表格操作'''
7 # 读写.xls表格03-07版
8 import xlrd
9 import xlwt
10 # 读写。xlsx表格07版
11 import openpyxl
12
13 def write_03_Excel(file_path):
  wb = xlwt.Workbook() #打开excel文件
14
  sheet = wb.add_sheet("测试表格2003") #添加表格名称
15
  value = [["姓名", "年龄", "电话", "婚姻状况"],
16
  ["范彬彬", "22", "18888888888", "已婚"],
17
  ["袁姗姗", "25", "1899999999", "未婚"],
18
  ["刘德华", "50", "177777777", "已婚"],
19
  ["张学友", "55", "1555555555", "已婚"],
20
  ["郭富城", "55", "13333333333", "已婚"]]
```

```
22
   for i in range(0, len(value)):
   for e in range(0, len(value[i])):
23
   sheet.write(i, e, value[i][e]) #i、e分别表示行和列
24
   wb.save(file_path)
25
   print("写入表格成功!")
26
27
28
29
  def read_03_Excel(file_path):
   wb = xlrd.open_workbook(file_path) #打开excel文件
30
   r_sheet = wb.sheet_names() #查找所有的表名
   work sheet = wb.sheet by name(r sheet[0]) #通过表名找到第一张表
32
   for i in range(0, work_sheet.nrows): #循环所有行
   row = work_sheet.row(i) #获取第i行
34
   for j in range(0, work sheet.ncols): #循环所有的列
   print(work_sheet.cell_value(i, j), "\t", end="") #获取行和列的cell
36
    print()
38
  def wirte 07 Excel(file path):
40
   wb = openpyxl.Workbook() #打开文件
41
   sheet = wb.active #激活sheet表格
42
    sheet.title = "测试表格2007" #添加sheet表格名称
43
   value = [["姓名", "年龄", "电话", "婚姻状况"],
44
   ["范彬彬", "22", "18888888888", "已婚"],
45
    ["袁姗姗", "25", "1899999999", "未婚"],
46
    ["刘德华", "50", "177777777", "已婚"],
47
    ["张学友", "55", "1555555555", "已婚"],
48
    ["郭富城", "55", "13333333333", "已婚"]]
49
   for i in range(0, len(value)):
50
   for j in range(0, len(value[i])):
51
   sheet.cell(row=i+1, column=j+1, value=str(value[i][j])) #写入单元格
52
   wb.save(file path)
   print("写入07表格成功")
54
56
  def read 07 Excel(file path):
57
   wb = openpyxl.load workbook(file path) #打开文件
58
   # sheet = wb.get_sheet_by_name("测试表格2007")
59
   sheet = wb["测试表格2007"] #通过sheet名称锁定表格
60
   for row in sheet.rows: #循环所有的行
61
   for cell in row: #循环行中所有的单元格
```

```
63 print(cell.value, "\t", end="") #获取单元格的值
64 print()
65
66 file_03_excel = "./data/03excel.xls"
67 file_07_excel = "./data/07excel.xlsx"
68 write_03_Excel(file_03_excel)
69 read_03_Excel(file_03_excel)
70 wirte_07_Excel(file_07_excel)
71 read_07_Excel(file_07_excel)
```

以下是我自己编写的程序,上面的例子有一些不好用

```
1 #!/usr/bin/python3
2 # coding:utf-8
3 # @author : gswu
4 # @date :2018/11/28 14:04
6 # 读写xls表格03-07
7 import xlrd
8 import xlwt
9 #读写xlsx表格07版
10 import openpyxl
  from tkinter import font
11
12
  def write_03_excel(myfilepath):
13
   #myfilepath="F:/testpy.xls"
14
   #初始化一个excel
15
   wb = xlwt.Workbook(encoding='utf-8')
16
   #新建一个sheet
17
    sheet = wb.add_sheet("test01") #添加表格名称
18
    mystyle=xlwt.XFStyle() #初始化样式
19
   font=xlwt.Font()#创建字体
20
    font.name=u'微软雅黑'#字体类型
21
   font.colour index=6 #字体颜色
22
   font.underline = True #下划线
23
24
   font.italic=True#斜体
    font。height=200#字体大小,200等于excel字体大小中的10
   mystyle.font=font #设定样式
26
    value = [["姓名", "年龄", "电话", "婚姻状况","备注"],
27
   ["范彬彬", "22", "18888888888", "已婚","学生"],
28
```

```
29
    ["袁姗姗", "25", "1899999999", "未婚","学生"],
    ["刘德华", "50", "177777777", "已婚", "团支书"],
30
    ["张学友", "55", "1555555555", "已婚","学生"],
31
    ["郭富城", "55", "1333333333", "已婚","班长"]]
32
   for i in range(0,len(value)):
    for e in range(0,len(value[i])):
    sheet.write(i,e,value[i][e],mystyle) #i和e分别表示行和列
36
   wb.save(myfilepath)
37
    print("写入表格成功","路径为:",myfilepath)
38
39
40
   def read_03_excel(myfilepath):
41
    #myfilepath="F:/testpy.xls"
42
    wb=xlrd.open_workbook(myfilepath)#打开excel文件
43
    r sheet=wb.sheet names()#查找所有表的名字
44
   print("表名字: ",r sheet)
45
46
    work_sheet=wb.sheet_by_name(r_sheet[0])
    print("work sheet: ",work sheet)
47
   for i in range(0, work sheet.nrows): #循环所有行
48
    row=work_sheet.row(i) #获取第i行
49
    print("第 %d行:" %(i),row)
50
51
   for j in range(0, work sheet.ncols):
    print("第%2d行, 第%5d列单元格为: "%(i,j),work_sheet.cell_value(i,j))
52
   #read 03 excel("F:/testdemo.xlsx")
54
   #myfilepath="F:/test07py.xlsx"
   def wite_07_excel(myfilepath):
57
    wb=openpyxl.Workbook() #打开文件
58
    mysheet=wb.create sheet(title="第一个sheet页", index=0)
59
    #print(wb.get_sheet_names())
60
    #mysheet.title ="test sheet" #添加sheet页标题
61
    myvalue = [["姓名", "年龄", "电话", "婚姻状况"],
62
    ["范彬彬", "22", "18888888888", "已婚"],
63
    ["袁姗姗", "25", "1899999999", "未婚"],
64
    ["刘德华", "50", "177777777", "已婚"],
65
    ["张学友", "55", "1555555555", "已婚"],
66
    ["郭富城", "55", "13333333333", "已婚"]]
   for i in range(0,len(myvalue)):
68
   for j in range(0,len(myvalue[i])):
```

```
70 mysheet.cell(row=i+1, column=j+1, value=myvalue[i][j])#写入单元格
71 wb.save(myfilepath)
72 print("07表格写入成功")
73
```