**openpyxl - 简单设置单元格样式**

2018年02月22日 23:03:11

阅读数：559

**单元格样式**

**简介**

openpyxl的单元格样式由6种属性决定，每一种都是一个类。如下所示（大概意思）：

* font(字体类)：字号、字体颜色、下划线等
* fill(填充类)：颜色等
* border(边框类)：设置单元格边框
* alignment(位置类)：对齐方式
* number\_format(格式类)：数据格式
* protection(保护类)：写保护
* 单元格默认样式如下：
* >>> from openpyxl.styles import PatternFill, Border, Side, Alignment, Protection, Font
* >>> font = Font(name='Calibri',
* ... size=11,
* ... bold=False,
* ... italic=False,
* ... vertAlign=None,
* ... underline='none',
* ... strike=False,
* ... color='FF000000')
* >>> fill = PatternFill(fill\_type=None,
* ... start\_color='FFFFFFFF',
* ... end\_color='FF000000')
* >>> border = Border(left=Side(border\_style=None,
* ... color='FF000000'),
* ... right=Side(border\_style=None,
* ... color='FF000000'),
* ... top=Side(border\_style=None,
* ... color='FF000000'),
* ... bottom=Side(border\_style=None,
* ... color='FF000000'),
* ... diagonal=Side(border\_style=None,
* ... color='FF000000'),
* ... diagonal\_direction=0,
* ... outline=Side(border\_style=None,
* ... color='FF000000'),
* ... vertical=Side(border\_style=None,
* ... color='FF000000'),
* ... horizontal=Side(border\_style=None,
* ... color='FF000000')
* ... )
* >>> alignment=Alignment(horizontal='general',
* ... vertical='bottom',
* ... text\_rotation=0,
* ... wrap\_text=False,
* ... shrink\_to\_fit=False,
* ... indent=0)
* >>> number\_format = 'General'
* >>> protection = Protection(locked=True,

... hidden=False)

**以上几种样式（字体、填充、边框、位置和保护）实例一旦被创建实例的属性就不可更改，只能重新创建实例。**

>>> from openpyxl.styles import colors

>>> from openpyxl.styles import Font, Color

>>> from openpyxl.styles import colors

>>> from openpyxl import Workbook

>>> wb = Workbook()

>>> ws = wb.active

>>>

>>> a1 = ws['A1']

>>> d4 = ws['D4']

>>> ft = Font(color=colors.RED)

>>> a1.font = ft

>>> d4.font = ft

>>>

>>> a1.font.italic = True # 不会生效，样式实例一旦创建，实例的属性就不可改变

>>>

>>> # 若要改变样式，必须新建样式实例

>>>

>>> a1.font = Font(color=colors.RED, italic=True) # 创建字体实例（红色、斜体，其他属性默认）

* **复制样式**

样式可以被复制：

>>> from openpyxl.styles import Font

>>>

>>> ft1 = Font(name='Arial', size=14)

>>> ft2 = ft1.copy(name="Tahoma") # 复制时指定字体为“Tahoma”，其他属性均复制自ft1

>>> ft1.name

'Arial'

>>> ft2.name

'Tahoma'

>>> ft2.size

14.0

**基本字体颜色**

字体颜色有一些颜色常量，可以直接调用:

from openpyxl.styles import Font

from openpyxl.styles.colors import RED

font = Font(color=RED)

font = Font(color="00FFBB00")

也可以按索引创建实例：

from openpyxl.styles.colors import Color

c = Color(indexed=32)

c = Color(theme=6, tint=0.5)

说到颜色，V2.3.5版本必须使用“00XXXXXX”的格式，不能使用“#XXXXXX”的格式。如果颜色不生效请查看版本后修改。

**应用样式**

可以直接应用到单元格:

from openpyxl.workbook import Workbook

from openpyxl.styles import Font, Fill

wb = Workbook()

ws = wb.active

c = ws['A1']

c.font = Font(size=12)

可以对整行整列设置样式，前提是单元格已创建。

col = ws.column\_dimensions['A']

col.font = Font(bold=True)

row = ws.row\_dimensions[1]

row.font = Font(underline="single")

**数据格式**

数据格式属性number\_format的值是字符串类型，不为对象，直接赋值即可。   
openpyxl内置了一些数据格式查看openpyxl.styles.numbers，也支持excel自定义格式，以下两种方式效果相同：

# 使用openpyxl内置的格式

from openpyxl.styles import numbers

ws.cell['D2'].number\_format = numbers.FORMAT\_GENERAL

ws.cell(row=2, column=4).number\_format = numbers.FORMAT\_DATE\_XLSX15

# 直接使用字符串

ws.cell['D2].number\_format = 'General'

ws.cell(row=2, column=4).number\_format = 'd-mmm-yy'

**编辑页面设置**

from openpyxl.workbook import Workbook

wb = Workbook()

ws = wb.active

ws.page\_setup.orientation = ws.ORIENTATION\_LANDSCAPE

ws.page\_setup.paperSize = ws.PAPERSIZE\_TABLOID

ws.page\_setup.fitToHeight = 0

ws.page\_setup.fitToWidth = 1

**编辑打印选项**

from openpyxl.workbook import Workbook

wb = Workbook()

ws = wb.active

ws.print\_options.horizontalCentered = True

ws.print\_options.verticalCentered = True

