

# openPyXL\_cheatsheet Cheat Sheet by Dima via cheatography.com/128706/cs/25257/

# # Opening excel documents with openpyxl

import openpyxl

wb = openpyxl.load\_workbook('example.xlsx')

# # Getting sheets from the workbook

my\_sheetnames = wb.sheetnames # return list object

# # Get a sheet from the workbook

sheet = wb[my\_sheetnames[0]] # sheet3 for
example

# # Get the sheet's title as a string

my\_titles = sheet.title

# # Get the active sheet

anotherSheet = wb.active

# # Getting a cell from the sheet

cell\_A1 = sheet['A1']

#### # Get the value from the cell

cell\_A1\_value = sheet['A1'].value

# # Get the row, column, coordinate from the cell

cell\_A1\_row = sheet['A1'].row
cell\_A1\_column = sheet['A1'].column
cell\_A1\_coordinate = sheet['A1'].coordinate
area\_cells = sheet['A1':'C3'] # tuple of all the
cell objects

### By **Dima**

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# # Charts

- # 1. Create a Reference object from a rectangular selection of cells.
- # 2. Create a Series object by passing in the Reference object.
- #3. Create a Chart object.
- # 4. Append the Series object to the Chart object.
- # 5. Add the Chart object to the Worksheet object, optionally specifying which cell should be
- # the top-left corner of the chart.
- # Ex.: BarChart()

#### # Charts

import openpyxl.chart
wb\_chart = openpyxl.Workbook()
sheet\_chart = wb\_chart.active
for i in range(1, 11):
sheet\_chart['A' + str(i)] = i

refObj = openpyxl.chart.Reference(sheet\_chart, min\_col=1, min\_row=1, max\_col=1, max\_row=10)
seriesObj = openpyxl.chart.Series(refObj, title='First series')

chartObj = openpyxl.chart.BarChart()
chartObj.title = 'My Chart'
chartObj.append(seriesObj)
sheet\_chart.add\_chart(chartObj, 'C5')

wb\_chart.save('sampleChart.xlsx')

#### # Insert row

sheet.insert\_rows(7)

# # Moving ranges. The cells will overwrite

sheet.move\_range("D4:F10", rows=-1,
cols=2)

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# # Getting a cell using row and column

cell\_B1 = sheet.cell(row=1, column=2) # if add argument 'value=' it'll change the value of cell

# # Get the highest row number

sheet max row = sheet.max row

#### # Get the highest column number

sheet\_max\_column = sheet.max\_column

# # Converting between column letters and numbers

from openpyxl.utils import get\_column\_letter, column\_index\_from\_string col\_letter = get\_column\_letter(1) col\_max\_letter = get\_column\_letter(sheet.max\_column) index\_letter = column\_index\_from\_string-('A') # Get A's number

### # Get the rows, columns

- # Using the rows return a tuple of tuples. Inner tuples - row.
- # Using the columns return a tuple of tuples. Inner tuples - the cell object in a particular column.
- # Convert to list with the list() function. Use index in the larger tuple.
- # Ex.: to get the tuple that represents row 1 tuple\_row\_1 = list(sheet.rows)[0]
- # Ex.: to get the tuple that represents column B

tuple\_column\_B = list(sheet.columns)[1]

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# # Merging and Unmerging Cells

wb merge = openpyxl.Workbook() sheet merge = wb merge.active sheet\_merge.merge\_cells('A1:D3')

# # To set the value of these merged cells

sheet\_merge['A1'] = 'Twelve cells merged together.'

sheet\_merge.merge\_cells('C5:D5') sheet\_merge['C5'] = 'Two merged cells.' wb\_merge.save('merged.xlsx')

# # Unmerge cells

wb\_unmerge = openpyxl.load\_workbook('merged.xlsx') sheet\_unmerge = wb\_unmerge.active sheet\_unmerge.unmerge\_cells('A1:D3') sheet unmerge.unmerge cells('C5:D5') wb\_unmerge.save('unmerged.xlsx')

# # Creating and Removing Sheets

wb\_new.create\_sheet() # Add a new sheet wb new.create sheet(index=0, title='First sheet') # Create a new sheet at index 0 wb new.create sheet(index=2, title='Middle sheet') # Create a new sheet at index 2 del wb\_new['Middle sheet'] # Remember to call the save() method to save changes

# # Writing Values to Cells

# Writing values to cells is much like writing values to keys in a dictionary. sheet\_new['A1'] = 'Hello, world!' print(sheet\_new['A1'].value)

#### By Dima

# # Module openpyxl.styles

# Setting the Font Style of Cells from openpyxl.styles import Font wb\_style = openpyxl.Workbook() sheet\_style = wb\_style['Sheet'] italic24Font = Font(size=24, italic=True, name='Calibri') # Create a font. sheet\_style['A1'].font = italic24Font # Apply the font to A1. sheet\_style['A1'] = 'Hello, world!' wb\_style.save('styles.xlsx')

# # Formulas

# Add formulas to cell just like any normal

wb\_formulas = openpyxl.Workbook() sheet\_formulas = wb\_formulas.active sheet\_formulas['A1'] = 200 sheet formulas['A2'] = 300 sheet\_formulas['A3'] = '=SUM(A1:A2)' # Set the formula

# # Setting Row Height and Column Width

wb\_formulas.save('writeFormula.xlsx')

wb\_dimension = openpyxl.Workbook() sheet\_dimension = wb\_dimension.active sheet\_dimension['A1'] = 'Tall row' sheet\_dimension['B2'] = 'Wide column' sheet dimension.row dimensions[1].height = 70 # Set the height sheet\_dimension.column\_dimensions-['B'].width = 20 # Set the width sheet dimension.column dimensions-['C'].hidden = True # Hide the column 'C' wb\_dimension.save('dimensions.xlsx')

# # Freezing Panes

# All rows above and columns to the left of this cell will be frozen # To unfreeze all panes, set freez\_panes to None or 'A1' wb\_freeze = openpyxl.load\_workbook('produceSales.xlsx') sheet freeze = wb freeze.active sheet\_freeze.freeze\_panes = 'A2' # Freeze the rows above A2.

wb\_freeze.save('freezeExample.xlsx')

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