## #!/bin/env pvthon """Executable cheatsheet illustrating use of pyExcelerator and its fork. xlwt I recommend using xlwt which is a somewhat unknown fork of pyExcelerator. There are examples shipped with both projects, use them if necessary, but the source is usually your best friend. The libraries are quite capable but don't support charting. xlwt also ds a mailing list that is active here: http://groups.google.com.au/group/python-excel Another good link is here: http://ntalikeris.blogspot.com/2007/10/create-excel-file-with-pythormy-sort.html This illustrates common usage for .xls generation, but also uses factories to limit object creation of styles (which can crash Excel.) It's meant to show example, but for more details, I recommend the sources I mention above. Please send comments/suggestions my way author: matthewharrison@gmail.com #import pyExcelerator as pycel import xlwt as pycel # Excel has issues when creating too many styles/fonts, hence use # a factory to reuse instances (see FAQ#13 http://poi.apache.org/fadptml ) STYLE FACTORY = {} FONT FACTORY = {} def create spreadsheet(): # Create a workbook wb = pycel.Workbook() # Add a sheet ws = wb.add\_sheet("Example Sheet") # Tweak printer settings # following makes a landscape layout on Letter paper # the width of the columns ws.fit num pages = 1 ws.fit\_height\_to\_pages = 0 ws.fit\_width\_to\_pages = 1 # Set to Letter paper # See BiffRecords.SetupPageRecord for paper types/orientation ws.paper size code = 1 # Set to landscape ws.portrait = 0 # Write some stuff using our helper function # Formatting - hint, look at Format code in 000 format cells... Numbers tab # # Write a percent write(ws, 0, 0, .495, {"format":"0%"}) # Write a percent with negatives red write(ws, 1, 0, -.495, {"format":"0%;[RED]-0%"}) # Dollar amounts write(ws, 2, 0, 10.99, {"format":'\$#,##0'})

# Font
# Size
write(ws, 0, 1, "Size 160(8pt)", {"font": (("height", 160),)})
write(ws, 1, 1, "Size 200(10pt)", {"font": (("height", 200),)})
# Bold
write(ws, 2, 1, "Bold text", {"font": (("bold", True),)})

## pyExcelerator/xlwt Cheatsheet

# Wranning write(ws, 0, 3, "A bunch of long text to wrap", {"alignment":(("wrap", pycel.Alignment.WRAP\_AT\_RIGHT),)}) # Set column width # (see pycel.BIFFRecords.ColInfoRecord for details, width in # 1/256th of zero character) write(ws, 0, 4, "A bunch of longer text not wrapped") ws.col(4).width = len("A bunch of longer text not wrapped")\*256 # Freeze/split headers when scrolling write(ws, 0, 5, "Header") ws.panes frozen = True ws.horz\_split\_pos = 1 for row in range(1, 200): write(ws, row, 5, row) # Save the workbook wb.save("out.xls") def write(ws, row, col, data, style=None): Write data to row, col of worksheet (ws) using the style information. Again, I'm wrapping this because you'll have to do it if you create large amounts of formatted entries in your spreadsheet (else Excel, but probably not OOo will crash). if style: s = get style(style) ws.write(row, col, data, s) el se: ws.write(row, col, data) def get\_style(style): Style is a dict maping key to values. Valid keys are: background, format, alignment, border

The values for keys are lists of tuples containing (attribute, value) pairs to set on model instances...

print "KEY", style style key = tuple(style.items()) s = STYLE\_FACTORY.get(style\_key, None) if s is None: s = pvcel.XFStvle() for key, values in style.items(): if key == "background": p = pycel.Pattern() for attr, value in values: p.\_\_setattr\_\_(attr, value) s.pattern = p elif key == "format": s.num\_format\_str = values elif kev == "alignment": a = pycel.Alignment() for attr, value in values: a.\_\_setattr\_\_(attr, value) s alignment = a elif key == "border": b = pycel.Formatting.Borders() for attr, value in values: b.\_\_setattr\_\_(attr, value) s.borders = belif key == "font": f = get\_font(values) s.font = f STYLE\_FACTORY[style\_key] = s

def get\_font(values):

'height' 10pt = 200, 8pt = 160

font\_key = values
f = FONT\_FACTORY.get(font\_key, None)
if f is None:
 f = pycel.Font()
 for attr, value in values:
 f.\_\_setattr\_\_(attr, value)
 FONT\_FACTORY[font\_key] = f
return f

if \_\_name\_\_ == "\_\_main\_\_":
 create\_spreadsheet()

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