Surpass and XLWT Manual

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1 Hello World

Let's do a minimal "Hello World" script. We'll need to take care of any imports, initialize a Workbook object, create a Worksheet within the workbook, then write some text. Here's how.

1.1 Surpass

```
require 'rubygems'
require 'surpass'

book = Workbook.new
sheet = book.add_sheet

sheet.write(0, 0, "Hello World!")

book.save("output/examples/hello-world.xls")

1.2 XLWT

from xlwt import *

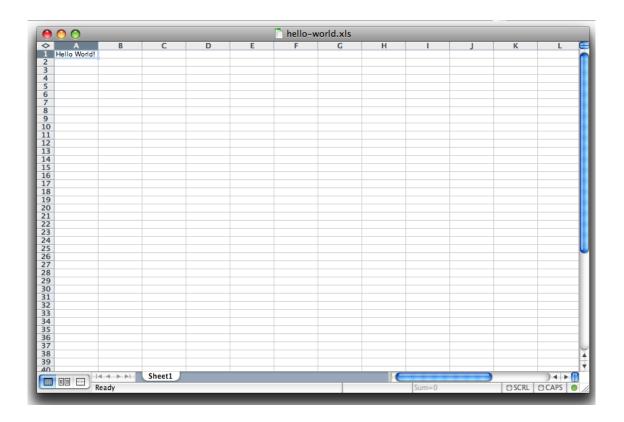
book = Workbook()
sheet = book.add_sheet("Sheet1")

sheet.write(0, 0, "Hello World!")

book.save("output/examples/hello-world-python.xls")
```

1.3 Result

And, here's how it looks.



2 Formatting

The StyleFormat class is a wrapper for the various types of formatting you can apply to a cell. StyleFormat has attributes:

- $\bullet \ number_format_string \\$
- \bullet font
- alignment
- \bullet borders
- pattern
- protection

Each of these attributes has a corresponding class, and you can look in lib/formatting.rb for the source.

There are two basic ways to set formatting options. You can pass a hash with formatting options when you initialize a new StyleFormat instance, or you can set individual attributes of the formatting classes. You can combine both approaches. Both of these are demonstrated in the next section.

- none
- thin
- \bullet medium
- \bullet dashed
- \bullet dotted
- thick

- double
- hair
- medium-dashed
- thin-dash-dotted
- medium-dash-dotted
- thin-dash-dot-dotted
- medium-dash-dot-dotted
- slanted-medium-dash-dotted

2.1 Surpass

40

```
# require 'rubygems'
   # require 'surpass'
   require "../lib/surpass"
   book = Workbook.new(__FILE__.gsub(/rb$/, 'xls').gsub('content/', 'output/')) # You can pass a filena
   sheet = book.add_sheet("Demo Worksheet") # You can name your worksheets.
   # Let's set up some formatting.
    # Remember to use Excel-style formatting directives, not sprintf.
10
   date_format = StyleFormat.new(:number_format_string => "DDDD DD MMM YYYY")
11
12
   fancy_format = StyleFormat.new(
13
     :font_name => 'Times New Roman',
14
      :font_colour => 'green',
15
      :font_italic => true
16
   )
17
18
   sheet.write(0, 0, "Hello World!", fancy_format)
19
   sheet.write(0, 1, Date.today, date_format)
20
    # You can also set up formatting by passing attributes directly to the constituents of StyleFormat
22
23
   # Font colours.
24
   Formatting::COLOURS.keys.each_with_index do |c, i|
     format = StyleFormat.new
26
     format.font.name = 'Verdana'
27
     format.font.color = c
28
     format.font.size = i + 5
29
     sheet.write(i, 5, c, format)
30
   end
31
32
   # Font underlining.
33
34
   [:none, :single, :single_accounting, :double, :double_accounting, nil, true, false].each_with_index
35
     format = StyleFormat.new
37
     format.font.underline = u
     sheet.write(i, 7, u.to_s, format)
38
   end
39
```

```
# Font bold, italic, strikethrough, outline are simple booleans.
41
    [:bold, :italic, :struck_out, :outline].each_with_index do |s, i|
      attribute = ("font_" + s.to_s).to_sym
      sheet.write(i, 8, s.to_s, StyleFormat.new(attribute => true))
44
45
46
    # Cell alignment.
    sheet.write(15, 2, "top left", :text_align => 'top left',
48
      :border_top => 'pink',
49
      :border_left => 'pink'
50
   )
51
   sheet.write(15, 3, "top center", :text_align => 'top center')
52
   sheet.write(15, 4, "top right", :text_align => 'top right')
53
   sheet.write(16, 2, "bottom left", :text_align => 'bottom left')
   sheet.write(16, 3, "bottom centre", :text_align => 'bottom centre')
sheet.write(16, 4, "bottom right", :text_align => 'bottom right',
55
56
      :border_bottom => 'pink',
57
      :border_right => 'pink'
58
   )
59
60
61
    # Borders
62
    sheet.write(3, 1, "borders",
63
      :border_right => 'medium blue',
64
      :border_left => 'thin yellow',
65
      :border_top => 'dotted purple',
      :border_bottom => 'dashed pink'
67
68
69
    # Or the hash-free option.
70
    crazy_border_format = StyleFormat.new
71
    crazy_border_format.borders.all = 'slanted-medium-dash-dotted grey'
72
73
    sheet.write(5, 1, "borders", crazy_border_format)
74
75
    sheet.write(7, 1, "fill", :fill_color => 'yellow')
76
    book.save
```

And, here's how it looks.

