メモ：Windowsでsphinxからpdf作ってみよう

URL: http://blog.livedoor.jp/lab1092/archives/51639558.html

とりあえずWindows環境でやったことメモ。

もとにしたのは「rst2pdf拡張を使ったPDFファイル作成」。 ありがたく使わせていただきまする。

http://sphinx-users.jp/cookbook/pdf/rst2pdf.html

もっとも、既にWindows環境で対応されている方はいらっしゃると思うので、それを探し出せない感が漂ってたり。

なお、python 2.6.1 と sphinx-1.0.7 はインストール済み。

１．rst2pdfのインストール

easy_install でらくらくインストール。（実は「らくらくインストール」でない環境が他にひとつあって、どうしようか悩んでたりｗ）

２．日本語フォントのインストール

VLゴとIPAフォントを調達(IPAフォントは*.ttfのもの) →c:usr onts に*.ttfをコピー

３．プロジェクトの作成

sphinx-quickstart コマンドを使ってドキュメントのプロジェクトフォルダの環境を設定 →OK

４．PDFの設定を追加

conf.py にPDF用の設定を自分で書き加える →コピペしました。 →フォントの設定は pdf_font_path = ['c:\usr\fonts']

次に、PDFの設定を追加します。 →コピペしました。

５．コマンドの追加

→Makeファイルのターゲット(pdf:)コピペしました。

バッチファイルも書き換えたよ。

```
if "%1" == "pdf" (
 %SPHINXBUILD% -b pdf %ALLSPHINXOPTS% %BUILDDIR%/pdf
    if errorlevel 1 exit /b 1
    echo.
    echo.Testing of pdf in the sources finished, look at the ^
results in %BUILDDIR%/pdf/output.txt.
    goto end
```

スタイルシートの設定

"ja.json"ファイルをコピペ。

６．ビルドと確認

フォント(VLゴ）のところで何かエラーっぽいけど気にしない →http://www.slideshare.net/lab1092/my-project-7250596

フォントのエラーは出ているものの、PDFの出力までいけました。

```
writing MyProject... [ERROR] styles.py:308 Error processing font VL-Gothic-Regul
ar: too many values to unpack
[ERROR] styles.py:309 Registering VL-Gothic-Regular.ttf as Helvetica alias
done
```

7．バッチファイル

２つ作成。ファイルアイコンをダブルクリックでコンパイル→ファイルを開く、ための2行x2。プロジェクトフォルダに。

[make-html.bat]

```
call make html
start _build/html/index.html
```

[make-pdf.bat]

```
call make pdf
start _build/pdf/MyProject.pdf
```

[コマンドラインログ]

```
C:\Users\manda>easy_install rst2pdf
Searching for rst2pdf
Reading http://pypi.python.org/simple/rst2pdf/
Reading http://rst2pdf.googlecode.com
Reading http://code.google.com/p/rst2pdf/downloads/list
Best match: rst2pdf 0.16
Downloading http://rst2pdf.googlecode.com/files/rst2pdf-0.16.tar.gz
Processing rst2pdf-0.16.tar.gz
Running rst2pdf-0.16setup.py -q bdist_egg --dist-dir c:\users\manda\appdata\loc
al empeasy_install-jzfuss st2pdf-0.16egg-dist-tmp-ealu0h
zip_safe flag not set; analyzing archive contents...
rst2pdf.createpdf: module references __file__
rst2pdf.image: module references __file__
rst2pdf.pdfbuilder: module references __file__
rst2pdf.styles: module references __file__
rst2pdf.tests.autotest: module references __file__
rst2pdf.tests.execmgr: module references __file__
Adding rst2pdf 0.16 to easy-install.pth file
Installing rst2pdf-script.py script to C:\Python26\Scripts
Installing rst2pdf.exe script to C:Python26Scripts
Installing rst2pdf.exe.manifest script to C:\Python26\Scripts

Installed c:\python26\lib\site-packages st2pdf-0.16-py2.6.egg
Processing dependencies for rst2pdf
Searching for reportlab>=2.1
Reading http://pypi.python.org/simple/reportlab/
Reading http://www.reportlab.com/
Best match: reportlab 2.5
Downloading http://pypi.python.org/packages/2.6/r/reportlab/reportlab-2.5.win32-
py2.6.exe#md5=4ce6342f3264507a59b33d20dd819471
Processing reportlab-2.5.win32-py2.6.exe
```

```
reportlab.rl_config: module references __file__
reportlab.__init__: module references __file__
reportlab.lib.fontfinder: module references __file__
reportlab.lib.testutils: module references __path__
reportlab.lib.utils: module references __file__
reportlab.lib.utils: module references __path__
reportlab.pdfgen.pdfimages: module references __file__
creating 'c:\users\manda\appdata\local empeasy_install-su9hv8 eportlab-2.5-py
2.6-win32.egg' and adding 'c:\users\manda\appdata\local empeasy_install-su9hv8
eportlab-2.5-py2.6-win32.egg.tmp' to it
creating c:\python26\lib\site-packages eportlab-2.5-py2.6-win32.egg
Extracting reportlab-2.5-py2.6-win32.egg to c:\python26\lib\site-packages
Adding reportlab 2.5 to easy-install.pth file

Installed c:\python26\lib\site-packages eportlab-2.5-py2.6-win32.egg
Finished processing dependencies for rst2pdf

C:\Users\manda>easy_install sphinx
Searching for sphinx
Best match: sphinx 1.0.7
Processing sphinx-1.0.7-py2.6.egg
sphinx 1.0.7 is already the active version in easy-install.pth
Installing sphinx-build-script.py script to C:\Python26\Scripts
Installing sphinx-build.exe script to C:\Python26\Scripts
Installing sphinx-build.exe.manifest script to C:\Python26\Scripts
Installing sphinx-quickstart-script.py script to C:\Python26\Scripts
Installing sphinx-quickstart.exe script to C:\Python26\Scripts
Installing sphinx-quickstart.exe.manifest script to C:\Python26\Scripts
Installing sphinx-autogen-script.py script to C:\Python26\Scripts
Installing sphinx-autogen.exe script to C:\Python26\Scripts
Installing sphinx-autogen.exe.manifest script to C:\Python26\Scripts

Using c:\python26\lib\site-packages\sphinx-1.0.7-py2.6.egg
Processing dependencies for sphinx
Finished processing dependencies for sphinx

C:\Users\manda>cd C:\usr\Proj\sphinx_sample

C:\usr\Proj\sphinx_sample>dir
 ドライブ C のボリューム ラベルは HP です
 ボリューム シリアル番号は D2D5-372C です

 C:\usr\Proj\sphinx_sample のディレクトリ

2011/03/14  01:24    <DIR>          .
2011/03/14  01:24    <DIR>          ..
               0 個のファイル                   0 バイト
               2 個のディレクトリ  1,543,194,304,512 バイトの空き領域

C:\usr\Proj\sphinx_sample>sphinx-quickstart
Welcome to the Sphinx 1.0.7 quickstart utility.

Please enter values for the following settings (just press Enter to
accept a default value, if one is given in brackets).

Enter the root path for documentation.
```

```
> Root path for the documentation [.]:

You have two options for placing the build directory for Sphinx output.
Either, you use a directory "_build" within the root path, or you separate
"source" and "build" directories within the root path.
> Separate source and build directories (y/N) [n]:

Inside the root directory, two more directories will be created; "_templates"
for custom HTML templates and "_static" for custom stylesheets and other static
files. You can enter another prefix (such as ".") to replace the underscore.
> Name prefix for templates and static dir [_]:

The project name will occur in several places in the built documentation.
> Project name: sphinx_sample
> Author name(s): ss

Sphinx has the notion of a "version" and a "release" for the
software. Each version can have multiple releases. For example, for
Python the version is something like 2.5 or 3.0, while the release is
something like 2.5.1 or 3.0a1.  If you don't need this dual structure,
just set both to the same value.
> Project version: 1
> Project release [1]:

The file name suffix for source files. Commonly, this is either ".txt"
or ".rst".  Only files with this suffix are considered documents.
> Source file suffix [.rst]:

One document is special in that it is considered the top node of the
"contents tree", that is, it is the root of the hierarchical structure
of the documents. Normally, this is "index", but if your "index"
document is a custom template, you can also set this to another filename.
> Name of your master document (without suffix) [index]:

Sphinx can also add configuration for epub output:
> Do you want to use the epub builder (y/N) [n]:

Please indicate if you want to use one of the following Sphinx extensions:
> autodoc: automatically insert docstrings from modules (y/N) [n]:
> doctest: automatically test code snippets in doctest blocks (y/N) [n]:
> intersphinx: link between Sphinx documentation of different projects (y/N) [n]
:
> todo: write "todo" entries that can be shown or hidden on build (y/N) [n]:
> coverage: checks for documentation coverage (y/N) [n]:
> pngmath: include math, rendered as PNG images (y/N) [n]:
> jsmath: include math, rendered in the browser by JSMath (y/N) [n]:
> ifconfig: conditional inclusion of content based on config values (y/N) [n]:
> viewcode: include links to the source code of documented Python objects (y/N)
[n]:

A Makefile and a Windows command file can be generated for you so that you
only have to run e.g. `make html' instead of invoking sphinx-build
directly.
> Create Makefile? (Y/n) [y]:
> Create Windows command file? (Y/n) [y]:
```

```
Finished: An initial directory structure has been created.

You should now populate your master file .index.rst and create other documentat
ion
source files. Use the Makefile to build the docs, like so:
   make builder
where "builder" is one of the supported builders, e.g. html, latex or linkcheck.



C:\usr\Proj\sphinx_sample>make pdf
Running Sphinx v1.0.7
loading pickled environment... done
building [pdf]: targets for 1 source files that are out of date
updating environment: 0 added, 0 changed, 0 removed
looking for now-outdated files... none found
processing MyProject... index
resolving references...
done
writing MyProject... [ERROR] styles.py:308 Error processing font VL-Gothic-Regul
ar: too many values to unpack
[ERROR] styles.py:309 Registering VL-Gothic-Regular.ttf as Helvetica alias
done
build succeeded.

Testing of pdf in the sources finished, look at the results in _build/pdf/output
.txt.

C:\usr\Proj\sphinx_sample>
```