

# How to use rst2pdf

**Author:** Roberto Alsina <[rsalsina@netmanagers.com.ar](mailto:rsalsina@netmanagers.com.ar)>  
**Version:** 0.12.3  
**Revision:** 1530

# Contents

<b>1</b>	<b>Introduction</b>	<b>4</b>
<b>2</b>	<b>Command line options</b>	<b>6</b>
<b>3</b>	<b>Configuration File</b>	<b>8</b>
<b>4</b>	<b>Pipe usage</b>	<b>9</b>
<b>5</b>	<b>Headers and Footers</b>	<b>10</b>
<b>6</b>	<b>Footnotes</b>	<b>11</b>
<b>7</b>	<b>Images</b>	<b>12</b>
7.1	Inline	12
7.2	Supported Image Types	12
7.3	Image Size	13
<b>8</b>	<b>Styles</b>	<b>15</b>
8.1	Included StyleSheets	15
8.2	StyleSheet Syntax	16
8.3	Font Alias	16
8.4	Style Definition	17
8.5	Font Embedding	18
8.5.1	The Easy Way	18
8.5.1.1	Fonty is a True Type font:	18
8.5.1.2	Fonty is a Type 1 font:	18
8.5.2	The Harder Way (True Type)	19
8.5.3	The Harder Way (Type1)	20
8.6	Page Size and Margins	20
8.7	Advanced: table styles	21
8.8	Multiple Stylesheets	22
8.9	Styling Your Document	24
8.9.1	The Base Styles	24
8.9.2	Lists	24
<b>9</b>	<b>Syntax Highlighting</b>	<b>26</b>
9.1	Inline	26
9.1.1	Examples	26
9.2	File inclusion	27
9.2.1	Include with Boundaries	27
<b>10</b>	<b>Raw Directive</b>	<b>29</b>
10.1	Page Counters	29
10.2	Page Breaks	30
10.3	Page Transitions	30

<b>11</b>	<b>Mathematics</b>	<b>32</b>
<b>12</b>	<b>Hyphenation</b>	<b>33</b>
<b>13</b>	<b>Page Layout</b>	<b>35</b>
<b>14</b>	<b>Smart Quotes</b>	<b>37</b>
<b>15</b>	<b>Kerning</b>	<b>38</b>
<b>16</b>	<b>Sphinx</b>	<b>39</b>
<b>17</b>	<b>Licenses</b>	<b>41</b>

# 1 Introduction

This document explains how to use `rst2pdf`. Here is the very short version:

```
rst2pdf.py mydocument.txt -o mydocument.pdf
```

That will, as long as `mydocument.txt` is a valid Restructured Text (ReST) document, produce a file called `mydocument.pdf` which is a PDF version of your document.

Of course, that means you just used default styles and settings. If it looks good enough for you, then you may stop reading this document, because you are done with it. If you are reading this in a PDF, it was generated using those default settings.

However, if you want to customize the output, or are just curious to see what can be done, let's continue.

## 1 Introduction

## 2 Command line options

```

-h, --help                show this help message and exit
--config=FILE             Config file to use. Default=~/.rst2pdf/config
-o FILE, --output=FILE   Write the PDF to FILE
-s STYLESHEETS, --stylesheets=STYLESHEETS
                        A comma-separated list of custom stylesheets.
                        Default=""
--stylesheet-path=FOLDER:FOLDER:...:FOLDER
                        A list of folders to search for stylesheets,"
                        separated using ":". Default=""
-c, --compressed         Create a compressed PDF. Default=False
--print-stylesheet        Print the default stylesheet and exit
--font-folder=FOLDER     Search this folder for fonts. (Deprecated)
--font-path=FOLDER:FOLDER:...:FOLDER
                        A list of folders to search for fonts, separated using
                        ":". Default=""
--baseurl=URL            The base URL for relative URLs. Default="file:///home/
                        ralsina/Desktop/proyectos/rst/trunk"
-l LANG, --language=LANG
                        Language to be used for hyphenation and docutils
                        localizations. Default="None"
--header=HEADER          Page header if not specified in the document.
                        Default="None"
--footer=FOOTER         Page footer if not specified in the document.
                        Default="None"
--smart-quotes=VALUE    Try to convert ASCII quotes, ellipsis and dashes to
                        the typographically correct equivalent. For details,
                        read the man page or the manual. Default="0"
--fit-literal-mode=MODE
                        What todo when a literal is too wide. One of error,
                        overflow,shrink,truncate. Default="shrink"
--inline-links           shows target between parenthesis instead of active
                        link
--repeat-table-rows     Repeats header row for each splitted table
-q, --quiet              Print less information.
-v, --verbose            Print debug information.
--very-verbose          Print even more debug information.
--version               Print version number and exit.
--no-footnote-backlinks
                        Disable footnote backlinks. Default=False
--inline-footnotes      Show footnotes inline. Default=True
--default-dpi=NUMBER    DPI for objects sized in pixels. Default=300
--show-frame-boundary   Show frame borders (only useful for debugging).
                        Default=False
--enable-splittable     Use alpha-quality splittable flowables in some
                        elements. Only useful for things like page-long block
                        quotes or list items
-b LEVEL, --break-level=LEVEL
                        Maximum section level that starts in a new page.
                        Default: 0

```

## 2 Command line options

<code>--first-page-even</code>	Whether first page is odd (as in the screen on "facing pages"), or even (as in a book)
<code>--blank-first-page</code>	Add a blank page at the beginning of the document.
<code>--break-side=VALUE</code>	How section breaks work. Can be "even", and sections start in an even page, "odd", and sections start in odd pages, or "any" and sections start in the next page, be it even or odd. See also the <code>-b</code> option.

For the options that take a folder list, like `--stylesheet-path`, the separator used will depend on your platform. On unix-like OSs, it's ":", on Windows it's ";". Don't blame me, blame DOS.

Some of these options' defaults can be changed by creating a [configuration file](#)

## 3 Configuration File

Since version 0.8, rst2pdf will read (if it is available) configuration files in `/etc/rst2pdf.conf` and `~/.rst2pdf/config`.

The user's file at `~/.rst2pdf/config` will have priority over the system's at `/etc/rst2pdf.conf` <sup>1</sup>

Here's an example file showing some of the currently available options:

```
# This is an example config file. Modify and place in ~/.rst2pdf/config

[general]
# A comma-separated list of custom stylesheets. Example:
# stylesheets="fruity.json,a4paper.json,verasans.json"
stylesheets=""

# Create a compressed PDF
# Use true/false (lower case) or 1/0
# Example: compressed=true
compressed=false

# A colon-separated list of folders to search for fonts. Example:
# font_path="/usr/share/fonts:/usr/share/texmf-dist/fonts/"
font_path=""

# Language to be used for hyphenation support
language="en_US"

# Default page header and footer
header=None
footer=None

# What to do if a literal block is too large. Can be
# shrink/truncate/overflow
fit_mode="shrink"

# What is the maximum level of heading that starts in a new page.
# 0 means no level starts in a new page.
break_level=0
```

Included with rst2pdf is an example file with every option in it.

## 4 Pipe usage

If no input nor output are provided, stdin and stdout will be used respectively

You may want to use rst2pdf in a linux pipe as such:

```
cat readme.txt | rst2pdf | gzip -c > readme.pdf.gz
```

or:

```
curl http://docutils.sourceforge.net/docs/user/rst/quickstart.txt | rst2pdf > quickstart.pdf
```

If no input argument is provided, stdin will be used:

```
cat readme.txt | rst2pdf -o readme.pdf
```

If outfile is set to dash '-', output goes to stdout:

```
rst2pdf -o - readme.txt > output.pdf
```

## 5 Headers and Footers

ReST supports headers and footers, using the header and footer directive:

```
.. header::  
  
    This will be at the top of every page.
```

Often, you may want to put a page number there, or a section name. The following magic tokens will be replaced (More will be added as rst2pdf evolves):

### ###Page###

Replaced by the current page number.

### ###Title###

Replaced by the document title

### ###Section###

Replaced by the current section title

### ###SectNum###

Replaced by the current section number. **Important:** You must use the sectnum directive for this to work.

Headers and footers are visible by default but they can be disabled by specific [Page Templates](#) for example, cover pages. You can also set headers and footers via *command line options* or the [configuration file](#).

## 6 Footnotes

Currently `rst2pdf` doesn't support real footnotes, and converts them to endnotes. There is a real complicated technical reason for this: I can't figure out a clean way to do it right.

You can get the same behaviour as with `rst2html` by specifying `--inline-footnotes`, and then the footnotes will appear where you put them (in other words, not footnotes, but "in-the-middle-of-text-notes" or just plain notes.)

## 7 Images

### 7.1 Inline

You can insert images in the middle of your text like this:

```
This |biohazard| means you have to run.

.. |biohazard| image:: ../rst2pdf/tests/input/images/biohazard.png
```

This ~~is~~ means you have to run.

This only works correctly with reportlab 2.2 or later.

### 7.2 Supported Image Types

For raster images, rst2pdf supports anything PIL (The Python Imaging Library) supports. The exact list of supported formats varies according to your PIL version and system.

For vector image support, you need to install Dinu Gherman's svglib (<http://pypi.python.org/pypi/svglib/>) or Uniconvertor from <http://sk1project.org> version 1.1.3 or later.

It provides support for these formats:

- CorelDRAW ver.7-X3,X4 (CDR/CDT/CCX/CDRX/CMX)
- Adobe Illustrator up to 9 ver. (AI postscript based)
- Postscript (PS)
- Encapsulated Postscript (EPS)
- Computer Graphics Metafile (CGM)
- Windows Metafile (WMF)
- XFIG
- Scalable Vector Graphics (SVG)
- Skencil/Sketch/sK1 (SK and SK1)
- Acorn Draw (AFF)

Some features will not work when using these images. For example, gradients will not display, and text may cause problems.

To test suitability of your vector images for use with rst2pdf, try converting them to PDF using uniconvertor. The result should be exactly the way they will look when used in your documents.

If you can choose between raster and vectorial images, for non-photographic images, vector files are usually smaller and look better, specially when printed.

If you want to use PDF files as images, you need to install PythonMagick (<http://www.imagemagick.org>), which will be used to convert it to PNG and then inserted in your document. If the quality is not good enough, try something like `--default-dpi 1200`

This only works for one-page PDF files, and has several drawbacks, such as inability to copy text from the embedded image.

In the future, rst2pdf will support ReportLab's PageCatcher to properly embed PDFs. That is not implemented yet, though.

If there is any other image format you need supported, please report it as a feature request in rst2pdf's site.

## 7.3 Image Size

PDFs are meant to reflect paper. A PDF has a specific size in centimeters or inches.

Images usually are measured in pixels, which are meaningless in a PDF. To convert between pixels and inches or centimeters, we use a DPI (dots-per-inch) value.

For example, 300 pixels, with a 300DPI, are exactly one inch. 300 pixels at 100DPI are 3 inches.

For that reason, to achieve a nice layout of the page, it's usually a good idea to specify the size of your images in those units, or as a percentage of the available width and you can ignore all this DPI nonsense ;-)

The rst2pdf default is 300DPI, but you can change it using the `--default-dpi` option or the `default_dpi` setting in the config file.

Examples of images with specified sizes:

```
.. image:: home.png
   :width: 3in

.. image:: home.png
   :width: 80%

.. image:: home.png
   :width: 7cm
```

The valid units you can use are:

"em" "ex" "px" "in" "cm" "mm" "pt" "pc" "%" "".

- px: Pixels. If you specify the size using this unit, rst2pdf will convert it to inches using the default DPI explained above.
- No unit. If you just use a number, it will be considered as pixels. (**IMPORTANT:** this used to default to points. It was changed to be more compatible with rst2html)
- em: This is the same as your base style's font size. By default: 10 points.
- ex: rst2pdf will use the same broken definition as IE:  $em/2$ . In truth this should be the height of the lower-case x character in your base style.
- in: Inches (1 inch = 2.54 cm).
- cm: centimeters (1cm = 0.39 inches)
- mm: millimeters (10mm = 1cm)
- pt: 1/72 inch
- pc: 1/6 inch
- %: percentage of available width in the frame. Setting a percentage as a height does **not** work and probably never will.

If you don't specify a size at all, rst2pdf will do its best to figure out what it should do:

Since there is no specified size, rst2pdf will try to convert the image's pixel size to inches using the DPI information available in the image itself. You can set that value using most image editors. For example, using Gimp, it's in the Image -> Print Size menu.

So, if your image is 6000 pixels wide, and is set to 1200DPI, it will be 5 inches wide.

If your image doesn't have a DPI property set, and doesn't have it's desired size specified, rst2pdf will arbitrarily decide it should use 300DPI (or whatever you choose with the `--default-dpi` option).

### 7.3 Image Size

As of 0.10.1, images taller than the page will not work (rst2pdf will fail to run), and images wider than the page will be cropped.

## 8 Styles

You can style paragraphs with a style using the class directive:

```
.. class:: special

This paragraph is special.

This one is not.
```

Or inline styles using custom interpreted roles:

```
.. role:: redtext

I like color :redtext:`red`.
```

For more information about this, please check the ReST docs.

The only special thing about using rst2pdf here is the syntax of the stylesheet.

You can make rst2pdf print the default stylesheet:

```
rst2pdf --print-stylesheet
```

If you want to add styles, just create a stylesheet, (or take the standard stylesheet and modify it) and pass it with the `-s` option:

```
rst2pdf mydoc.txt -s mystyles.txt
```

Those styles will always be searched in these places, in order:

- What you specify using `--stylesheet_path`
- The option `stylesheet_path` in the config file
- The current folder
- `~/rst2pdf/styles`
- The styles folder within rst2pdf's installation folder.

You can use multiple `-s` options, or pass more than one stylesheet separated with commas. They are processed in the order you give them so the *last* one has priority.

### 8.1 Included StyleSheets

To make some of the more common adjustments easier, rst2pdf includes a collection of stylesheets you can use:

#### Font styles

These stylesheets modify your font settings.

- `serif` uses the PDF serif font (Times) instead of the default Sans Serif (Arial)
- `freetype-sans` uses your system's default TrueType Sans Serif font
- `freetype-serif` uses your system's default TrueType Serif font
- `twelvepoint` makes the base font 12pt (default is 10pt)
- `tenpoint` makes the base font 10pt
- `eightpoint` makes the base font 8pt

## 8.2 StyleSheet Syntax

- `kerning` switches to document to DejaVu Sans font and enables kerning.

### Page layout styles

These stylesheets modify your page layout.

- `twocolumn` uses the `twoColumn` layout as the initial page layout.
- `double-sided` adds a gutter margin (margin at the "in side" of the pages)

### Page size styles

Stylesheets that change the paper size.

The usual standard paper sizes are supported:

- A0
- A1
- A2
- A3
- A4 (default)
- A5
- A6
- B0
- B1
- B2
- B3
- B4
- B5
- B6
- Letter
- Legal
- 11x17

The name of the stylesheet is lowercase.

### Code block styles

See [Syntax Highlighting](#)

So, if you want to have a two-column, legal size, serif document with code in murphy style:

```
rst2pdf mydoc.txt -s twocolumn,serif,murphy,legal
```

## 8.2 StyleSheet Syntax

It's a JSON file with several elements in it.

## 8.3 Font Alias

This is the `fontsAlias` element. By default, it uses some of the standard PDF fonts:

```
"fontsAlias" : {  
  "stdFont": "Helvetica",  
  "stdBold": "Helvetica-Bold",  
  "stdItalic": "Helvetica-Oblique",  
  "stdBoldItalic": "Helvetica-BoldOblique",  
  "stdMono": "Courier"
```

## 8.4 Style Definition

```
},
```

This defines the fonts used in the styles. You can use, for example, Helvetica directly in a style, but if later you want to use another font all through your document, you will have to change it in each style. So, I suggest you use aliases.

The standard PDF fonts are these:

Times_Roman	Times-Bold	Times-Italic	Times-Bold-Italic	Helvetica	Helvetica_Bold
Helvetica-Oblique	Helvetica-Bold-Oblique	Courier	Courier-Bold	Courier-Oblique	
Courier-Bold-Oblique	Symbol	Zapf-Dingbats			

## 8.4 Style Definition

Then you have a 'styles' which is a list of [ stylename, styleproperties ]. For example:

```
[ "normal" , {  
  "parent": "base"  
}],
```

This means that the style called "normal" inherits style "base". So, each property not defined in the normal style will be taken from the base style.

I suggest you do not remove any style from the default stylesheet. Add or modify at will, though.

If your document requires a style that is not defined in your stylesheet, it will print a warning and use bodytext instead.

Also, the order of the styles is important: if styleA is the parent of styleB, styleA should be earlier in the stylesheet.

These are all the possible attributes for a style and their default values. Some of them, like alignment, apply only when used to paragraphs, and not on inline styles:

```
"fontName": "Times-Roman",  
"fontSize": 10,  
"leading": 12,  
"leftIndent": 0,  
"rightIndent": 0,  
"firstLineIndent": 0,  
"alignment": TA_LEFT,  
"spaceBefore": 0,  
"spaceAfter": 0,  
"bulletFontName": "Times-Roman",  
"bulletFontSize": 10,  
"bulletIndent": 0,  
"textColor": black,  
"backColor": None,  
"wordWrap": None,  
"borderWidth": 0,  
"borderPadding": 0,  
"borderColor": None,  
"borderRadius": None,  
"allowWidows": 1,  
"allowOrphans": 0
```

The following are the only attributes that work on styles when used for interpreted roles (inline styles):

- `fontName`
- `fontSize`
- `textColor`
- `backColor` (if your reportlab is version 2.3 or newer)

## 8.5 Font Embedding

There are thousands of excellent free True Type and Type 1 fonts available on the web, and you can use many of them in your documents by declaring them in your stylesheet.

### 8.5.1 The Easy Way

Just use the font name in your style. For example, you can define this:

```
[ "normal" , {
  "fontName" : "fonty"
}]
```

And then it *may* work.

What would need to happen for this to work?

#### 8.5.1.1 Fonty is a True Type font:

1. **You need to have it installed in your system, and have the `fc-match` utility available** (it's part of `fontconfig`). You can test if it is so by running this command:

```
$ fc-match fonty
fonty.ttf: "Fonty" "Normal"
```

If you are in Windows, I need your help ;-)) or you can use [The Harder Way \(True Type\)](#)

2. **The folder where `fonty.ttf` is located needs to be in your font path. You can set it** using the `--font-path` option. For example:

```
rst2pdf mydoc.txt -s mystyle.style --font-path /usr/share/fonts
```

You don't need to put the *exact* folder, just something that is above it. In my own case, `fonty` is in `/usr/share/fonts/TTF`

Whenever a font is embedded, you can refer to it in a style by its name, and to its variants by the aliases `Name-Oblique`, `Name-Bold`, `Name-BoldOblique`.

#### 8.5.1.2 Fonty is a Type 1 font:

You need it installed, and the folders where its font metric (`.afm`) and binary (`.pfb`) files are located need to be in your font path.

For example, the "URW Palladio L" font that came with my installation of TeX consists of the following files:

```
/usr/share/texmf-dist/fonts/type1/urw/palatino/uplb8a.pfb
/usr/share/texmf-dist/fonts/type1/urw/palatino/uplbi8a.pfb
/usr/share/texmf-dist/fonts/type1/urw/palatino/uplrr8a.pfb
```

## 8.5.2 The Harder Way (True Type)

```
/usr/share/texmf-dist/fonts/type1/urw/palatino/uplri8a.pfb
/usr/share/texmf-dist/fonts/afm/urw/palatino/uplb8a.afm
/usr/share/texmf-dist/fonts/afm/urw/palatino/uplbi8a.afm
/usr/share/texmf-dist/fonts/afm/urw/palatino/uplr8a.afm
/usr/share/texmf-dist/fonts/afm/urw/palatino/uplri8a.afm
```

So, I can use it if I put `/usr/share/texmf-dist/fonts` in my font path:

```
rst2pdf mydoc.txt -s mystyle.style --font-path /usr/share/texmf-dist/fonts
```

And putting this in my stylesheet, for example:

```
[ "title", { "fontName" : "URWPalladioL-Bold" } ]
```

There are some standard aliases defined so you can use other names:

```
'ITC Bookman'           : 'URW Bookman L',
'ITC Avant Garde Gothic' : 'URW Gothic L',
'Palatino'              : 'URW Palladio L',
'New Century Schoolbook' : 'Century Schoolbook L',
'ITC Zapf Chancery'     : 'URW Chancery L'
```

So, for example, you can use `Palatino` or `New Century SchoolBook-Oblique`. And it will mean `URWPalladioL` or `CenturySchL-Ital`, respectively.

Whenever a font is embedded, you can refer to it in a style by its name, and to its variants by the aliases `Name-Oblique`, `Name-Bold`, `Name-BoldOblique`.

### 8.5.2 The Harder Way (True Type)

The stylesheet has an element is "embeddedFonts" that handles embedding True Type fonts in your PDF. Usually, it's empty, because with the default styles you are not using any font beyond the standard PDF fonts:

```
"embeddedFonts" : [ ],
```

You can put there the name of the font, and `rst2pdf` will try to embed it as described above. Example:

```
"embeddedFonts" : [ "Tuffy" ],
```

Or you can be explicit and tell `rst2pdf` the files that contain each variant of the font.

Suppose you want to use the nice public domain [Tuffy font](#), then you need to give the filenames of all variants:

```
"embeddedFonts" : [ ["Tuffy.ttf", "Tuffy_Bold.ttf", "Tuffy_Italic.ttf", "Tuffy_Bold_Italic.ttf"] ],
```

This will provide your styles with fonts called "Tuffy" "Tuffy\_Bold" and so on. They will be available with the names based on the filenames (`Tuffy_Bold`) and also by standard aliases similar to those of the standard PDF fonts (`Tuffy-Bold/Tuffy-Oblique/Tuffy-BoldOblique`).

Now, if you use *italics* in a paragraph whose style uses the Tuffy font, it will use `Tuffy_Italic`. That's why it's better if you use fonts that provide the four variants, and you should put them in **that** order. If your font

### 8.5.3 The Harder Way (Type1)

lacks a variant, use the "normal" variant instead.

For example, if you only had Tuffy.ttf:

```
"embeddedFonts" : [ ["Tuffy.ttf", "Tuffy.ttf", "Tuffy.ttf", "Tuffy.ttf"] ],
```

However, that means that italics and bold in styles using Tuffy will not work correctly (they will display as regular text).

If you want to use this as the base font for your document, you should change the fontsAlias section accordingly. For example:

```
"fontsAlias" : {  
  "stdFont": "Tuffy",  
  "stdBold": "Tuffy_Bold",  
  "stdItalic": "Tuffy_Italic",  
  "stdBoldItalic": "Tuffy_Bold_Italic",  
  "stdMono": "Courier"  
},
```

If, on the other hand, you only want a specific style to use the Tuffy font, don't change the fontAlias, and set the fontName properties for that style. For example:

```
[ "heading1" , {  
  "parent": "normal",  
  "fontName": "Tuffy_Bold",  
  "bulletFontName": "Tuffy_Bold",  
  "fontSize": 18,  
  "bulletFontSize": 18,  
  "leading": 22,  
  "keepWithNext": true,  
  "spaceAfter": 6  
}],
```

By default, rst2pdf will search for the fonts in its fonts folder and in the current folder. You can make it search another folder by passing the --font-folder option, or you can use absolute paths in your stylesheet.

### **8.5.3 The Harder Way (Type1)**

To be written (and implemented and tested)

## **8.6 Page Size and Margins**

In your stylesheet, the pageSetup element controls your page layout.

Here's the default stylesheet's:

```
"pageSetup" : {  
  "size": "A4",  
  "width": null,  
  "height": null,  
  "margin-top": "2cm",  
  "margin-bottom": "2cm",  
  "margin-left": "2cm",  
  "margin-right": "2cm",
```

## 8.7 Advanced: table styles

```
"spacing-header" : "5mm" ,  
"spacing-footer" : "5mm" ,  
"margin-gutter" : "0cm"  
},
```

Size is one of the standard paper sizes, like A4 or LETTER.

Here's a list: A0, A1, A2, A3, A4, A5, A6, B0, B1, B2, B3, B4, B5, B6, LETTER, LEGAL, ELEVENSEVENTEEN.

If you want a non-standard size, set size to null and use width and height.

When specifying width, height or margins, you need to use units, like inch (inches) or cm (centimeters).

When both width/height and size are specified, size will be used, and width/height ignored.

All margins should be self-explanatory, except for margin-gutter. That's the margin in the center of a two-page spread.

This value is added to the left margin of odd pages and the right margin of even pages, adding (or removing, if it's negative) space "in the middle" of opposing pages.

If you intend to bound a printed copy, you may need extra space there. OTOH, if you will display it on-screen on a two-page format (common in many PDF readers, nice for ebooks), a negative value may be pleasant.

## 8.7 Advanced: table styles

This is new in 0.12.

These are a few extra options in styles that are only used when the style is applied to a table. This happens in two cases:

1. You are using the class directive on a table:

```
.. class:: thick
```

```
+-----+-----+  
|   A   |   B   |  
+-----+-----+
```

2. It's a style that automatically applies to something that is *drawn* using a table. Currently these include:

- Footnotes / endnotes (endnote style)
- Lists (item\_list, bullet\_list option\_list and field\_list styles)

The options are as follows:

### Commands

For a full reference of these, please check the Reportlab User Guide specifically the TableStyle Commands section (section 7.4 in the manual for version 2.3)

Here, however, is a list of the possible commands:

```
BOX (or OUTLINE)  
FONT  
FONTNAME (or FACE)  
FONTSIZE (or SIZE)
```

## 8.8 Multiple Stylesheets

```
GRID
INNERGRID
LEADING
LINEBELOW
LINEABOVE
LINEBEFORE
LINEAFTER
TEXTCOLOR
ALIGNMENT (or ALIGN)
LEFTPADDING
RIGHTPADDING
BOTTOMPADDING
TOPPADDING
BACKGROUND
ROWBACKGROUNDS
COLBACKGROUNDS
VALIGN
```

Each takes as argument a couple of coordinates, where (0,0) is top-left, and (-1,-1) is bottom-right, and 0 or more extra arguments.

For example, INNERGRID takes a linewidth and a color:

```
[ "INNERGRID", [ 0, 0 ], [ -1, -1 ], 0.25, "black" ],
```

That would mean "draw all lines inside the table with .25pt black"

### colWidths

A list of the column widths you want, in the unit you prefer (default unit is pt).

Example:

```
"colWidths": [ "3cm", null ]
```

If your colWidths has fewer values than columns in your table, the rest are autocalculated. A column width of null means "guess".

If you don't specify column widths, the table will try to look proportional to the restructured text source.

## 8.8 Multiple Stylesheets

When you use a custom stylesheet, you don't need to define *everything* in it. Whatever you don't define will be taken from the default stylesheet. For example, if you only want to change page size, default font and font size, this would be enough:

```
{
  "pageSetup" : {
    "size": "A5",
  },
  "fontsAlias" : {
    "stdFont": "Times-Roman",
  },
  "styles" : [
    [ "normal" , {
      "fontSize": 14
    } ]
  ]
}
```

## 8.8 Multiple Stylesheets

```
]
}
```

### Note

The `command` option used for table styles is not kept across stylesheets. For example, the default stylesheet defines endnote with this command list:

```
"commands": [ [ "VALIGN", [ 0, 0 ], [ -1, -1 ], "TOP" ] ]
```

If you redefine endnote in another stylesheet and use this to create a vertical line between the endnote's columns:

```
"commands": [ [ "LINEAFTER", [ 0, 0 ], [ 1, -1 ], .25, "black" ] ]
```

Then the footnotes will **not** have VALIGN TOP!

To do that, you **MUST** use all commands in your stylesheet:

```
"commands": [
  [ "VALIGN", [ 0, 0 ], [ -1, -1 ], "TOP" ],
  [ "LINEAFTER", [ 0, 0 ], [ 1, -1 ], .25, "black" ]
]
```

## 8.9 Styling Your Document

Which styles you need to modify to achieve your desired result is not obvious. In this section, you will see some hints and pointers to that effect.

### 8.9.1 The Base Styles

There are three styles which have great effect, they are `base`, `normal` and `bodytext`.

Here's an example, the twelvepoint stylesheet:

```
{"styles": [{"base", {"fontSize": 12}}]}
```

Since all other styles inherit `base`, changing the `fontSize` changes the `fontSize` for everything in your document.

The `normal` style is meant for most elements, so usually it's the same as changing `base`.

The `bodytext` style is for elements that form paragraphs. So, for example, you can set your document to be left-aligned like this:

```
{"styles": [{"bodytext", {"alignment": "TA_LEFT"}}]}
```

There are elements, however, that don't inherit from `bodytext`, for example headings and the styles used in the table of contents. Those are elements that are not real paragraphs, so they should not follow the indentation and spacing you use for your document's main content.

The `heading` style is inherited by all sorts of titles: section titles, topic titles, admonition titles, etc.

### 8.9.2 Lists

Styling lists is mostly a matter of spacing and indentation.

The space before and after a list is taken from the `item_list` and `bullet_list` styles:

```
[ "item_list", {
  "parent": "bodytext",
  "spaceBefore": 0,
  "commands": [
    [ "VALIGN", [ 0, 0 ], [ -1, -1 ], "TOP" ],
    [ "RIGHTPADDING", [ 0, 0 ], [ 1, -1 ], 0 ]
  ],
  "colWidths": [ "20pt", null ]
} ]

[ "bullet_list", {
  "parent": "bodytext",
  "spaceBefore": 0,
  "commands": [
    [ "VALIGN", [ 0, 0 ], [ -1, -1 ], "TOP" ],
    [ "RIGHTPADDING", [ 0, 0 ], [ 1, -1 ], 0 ]
  ],
  "colWidths": [ "20", null ]
} ],
```

Yes, these are table styles, because they are implemented as tables. The `RIGHTPADDING` command and the `colWidths` option can be used to adjust the position of the bullet/item number.

## 8.9 Styling Your Document

To control the separation between items, you use the `item_list_item` and `bullet_list_item` styles' `spaceBefore` and `spaceAfter` options, for example:

```
[ "bullet_list_item" , {  
  "parent": "bodytext",  
  "spaceBefore": 20  
}]
```

Remember that this is only used **between items** and not before the first or after the last items.

## 9 Syntax Highlighting

### 9.1 Inline

Rst2pdf adds a non-standard directive, called `code-block`, which produces syntax highlighted for many languages using `Pygments`.

For example, if you want to include a python fragment:

```
.. code-block:: python

    def myFun(x,y):
        print x+y
```

```
def myFun(x,y):
    print x+y
```

Notice that you need to declare the language of the fragment. Here's a list of the currently [supported](#).

Rst2pdf includes several stylesheets for highlighting code:

- autumn
- borland
- bw
- colorful
- emacs
- friendly
- fruity
- manni
- murphy
- native
- pastie
- perldoc
- trac
- vs

You can use any of them instead of the default by adding, for example, a `-s murphy` to the command line.

If you already are using a custom stylesheet, use both:

```
rst2pdf mydoc.rst -o mydoc.pdf -s mystyle.json,murphy
```

The default is the same as "emacs".

There is an online demo of pygments showing these styles:

<http://pygments.org/demo/1817/>

#### 9.1.1 Examples

As `rst2pdf` is in python let's see some examples and variations around python

## 9.2 File inclusion

Python in console

```
>>> my_string="python is great"
>>> my_string.find('great')
10
>>> my_string.startswith('py')
True
```

Python traceback

```
Traceback (most recent call last):
  File "error.py", line 9, in ?
    main()
  File "error.py", line 6, in main
    print call_error()
  File "error.py", line 2, in call_error
    r = 1/0
ZeroDivisionError: integer division or modulo by zero
Exit 1
```

## 9.2 File inclusion

Also, you can use the code-block directive with an external file, using the `:include:` option:

```
.. code-block:: python
   :include: setup.py
```

This will give a warning if `setup.py` doesn't exist or can't be opened.

### 9.2.1 Include with Boundaries

you can add selectors to limit the inclusion to a portion of the file. the options are:

- start-at:** string will include file beginning at the first occurrence of string, string **included**
- start-after:** string will include file beginning at the first occurrence of string, string **excluded**
- end-before:** string will include file up to the first occurrence of string, string **excluded**
- end-at:** string will include file up to the first occurrence of string, string **included**

Let's display a class from `rst2pdf`:

```
.. code-block:: python
   :include: ../rst2pdf/flowables.py
   :start-at: class Separation(Flowable):
   :end-before: class Reference(Flowable):
```

this command gives

```
class Separation(Flowable):
    """A simple <hr>-like flowable"""

    def wrap(self, w, h):
        self.w = w
```

## 9.2 File inclusion

```
    return w, 1*cm

def draw(self):
    self.canv.line(0, 0.5*cm, self.w, 0.5*cm)
```

## 10 Raw Directive

Rst2pdf has a very limited mechanism to pass commands to reportlab, the PDF generation library. You can use the raw directive to insert pagebreaks and spacers (other reportlab flowables may be added if there's interest), and set page transitions.

The syntax is shell-like, here's an example:

```
One page

.. raw:: pdf

    PageBreak

Another page. Now some space:

.. raw:: pdf

    Spacer 0,200
    Spacer 0 200

And another paragraph.
```

The unit used by the spacer by default is points, and using a space or a comma is the same thing in all cases.

### 10.1 Page Counters

In some documents, you may not want your page counter to start in the first page.

For example, if the first pages are a coverpage and a table of contents, you want page 1 to be where your first section starts.

To do that, you have to use the `SetPageCounter` command.

Here is a syntax example:

```
.. raw:: pdf

    SetPageCounter 0 lowerroman
```

This sets the counter to 0, and makes it display in lower roman characters (i, ii, iii, etc) which is a style often used for the pages before the document proper (for example, TOCs and abstracts).

It can take zero or two arguments.

#### **SetPageCounter**

When used with no arguments, it sets the counter to 0, and the style to arabic numerals.

#### **SetPageCounter number style**

When used with two arguments, the first argument must be a number, it sets the page counter to that number.

The second number is a style of counter. Valid values are:

- lowerroman: i, ii, iii, iv, v ...
- roman: I, II, III, IV, V ...
- arabic: 1, 2, 3, 4, 5 ...

## 10.2 Page Breaks

- loweralpha: a, b, c, d, e ... [Don't use for numbers above 26]
- alpha: A, B, C, D, E ... [Don't use for numbers above 26]

### **Note**

Page counter changes take effect on the **current** page.

## 10.2 Page Breaks

There are three kinds of page breaks:

### **PageBreak**

Break to the next page

### **EvenPageBreak**

Break to the next **even** numbered page

### **OddPageBreak**

Break to the next **odd** numbered page

Each of them can take an additional number which is the name of the next page template.

For example:

```
PageBreak twoColumn
```

## 10.3 Page Transitions

Page transitions are effects used when you change pages in *Presentation* or *Full Screen* mode (depends on the viewer). You can use it when creating a presentation using PDF files.

The syntax is this:

```
.. raw:: pdf

    Transition effect duration [optional arguments]
```

The optional arguments are:

### **direction:**

Can be 0,90,180 or 270 (top,right,bottom,left)

### **dimension:**

Can be H or V

### **motion:**

Can be I or O (Inside or Outside)

The effects with their arguments are:

- Split duration direction motion
- Blinds duration dimension
- Box duration motion
- Wipe duration direction
- Dissolve duration

## 10.2 Page Breaks

- Glitter duration direction

For example:

```
.. raw:: pdf
    Transition Glitter 3 90
```

Uses the Glitter effect, for 3 seconds, at direction 90 degrees (from the right?)

Keep in mind that Transition sets the transition *from this page to the next* so the natural thing is to use it before a PageBreak:

```
.. raw:: pdf
    Transition Dissolve 1
    PageBreak
```

## 11 Mathematics

If you have [Matplotlib](#) installed, rst2pdf supports a math role and a math directive. You can use them to insert formulae and mathematical notation in your documents using a subset of LaTeX syntax, but doesn't require you have LaTeX installed.

For example, here's how you use the math directive:

```
.. math::

    \frac{2 \pm \sqrt{7}}{3}
```

And here's the result:

$$\frac{2 \pm \sqrt{7}}{3}$$

If you want to insert mathematical notation in your text like this:  $\pi$  that is the job of the math *role*:

```
This is :math:`\pi`
```

Produces: This is  $\pi$

Currently, the math role is slightly buggy, and in some cases will produce misaligned and generally broken output. Also, while the math directive embeds fonts and draws your formula as text, the math role embeds an image. That means:

- You can't copy the text of inline math
- Inline math will look worse when printed, or make your file larger.

So, use it only in emergencies ;-)

You can also use an inline substitution of the math directive for things you use often, which is the same as using the math role:

```
This is the square of x: |xsg|

.. |xsg| math:: x^2
```

This is the square of x:  $x^2$

You don't need to worry about fonts, the correct math fonts will be used and embedded in your PDF automatically (they are included with matplotlib).

For an introduction to LaTeX syntax, see the "Typesetting Mathematical Formulae" chapter in "The Not So Short Introduction to LaTeX 2e":

<http://www.tex.ac.uk/tex-archive/info/lshort/english/lshort.pdf>

Basically, the inline form `$a^2$` is similar to the math role, and the display form is similar to the math directive.

Rst2pdf doesn't support numbering equations yet.

## 12 Hyphenation

If you want good looking documents, you want to enable hyphenation.

To do it, you need to install Wordaxe <sup>2</sup>.

If after installing it you get the letter "s" or a black square instead of a hyphen, that means you need to replace the `rl_codecs.py` file from reportlab with the one from wordaxe.

For more information, see [this issue](#) in rst2pdf's bug tracker.

Also, you may need to set hyphenation to true in one or more styles, and the language for hyphenation via the command line or paragraph styles.

For english, this should be enough:

```
[ "bodytext" , {
  "alignment": "TA_JUSTIFY",
  "hyphenation": true
}],
```

If you are not an english speaker, you need to change the language using the `-l` or `--language` option.

Since Wordaxe version 0.2.6, it can use the PyHyphen library if it's available. PyHyphen can use any OpenOffice dictionary, and can even download them automatically. <sup>3</sup>

For example, this will enable german hyphenation globally:

```
rst2pdf -l de_DE mydocument.txt
```

If you are creating a multilingual document, you can declare styles with specific languages. For example, you could inherit bodytext for spanish:

```
[ "bodytext_es" , {
  "parent": "bodytext",
  "alignment": "TA_JUSTIFY",
  "hyphenation": true,
  "language": "es_ES"
}],
```

And all paragraphs declared of `bodytext_es` style would have spanish hyphenation:

```
.. class:: bodytext_es

Debo a la conjunción de un espejo y de una enciclopedia el descubrimiento de Uqbar.
El espejo inquietaba el fondo de un corredor en una quinta de la calle Gaona,
en Ramos Mejía; la enciclopedia falazmente se llama *The Anglo-American Cyclopaedia*
(New York, 1917) y es una reimpresión literal, pero también morosa, de la
*Encyclopaedia Britannica* de 1902.
```

Here is the result (made thinner to force hyphenation):

Debo a la conjunción de un espejo y  
de una enciclopedia el  
descubrimiento de Uqbar. El espejo  
inquietaba el fondo de un corredor  
en una quinta de la calle Gaona, en  
Ramos Mejía; la enciclopedia  
falazmente se llama *The*

*Anglo-American Cyclopaedia* (New York, 1917) y es una reimpresión literal, pero también morosa, de la *Encyclopaedia Britannica* de 1902.

BTW: That's the beginning of "Tlön, Uqbar, Orbis Tertius", read it, it's cool.

If you explicitly configure a language in a paragraph style and also pass a language in the command line, the style has priority, so remember:

### ***Important***

If you configure the bodytext style to have a language, your document is supposed to be in that language, regardless of what the command line says.

If this is too confusing, let me know, I will try to figure out a simpler way.

## 13 Page Layout

By default, your document will have a single column of text covering the space between the margins. You can change that, though, in fact you can do so even in the middle of your document!

To do it, you need to define *Page Templates* in your stylesheet. The default stylesheet already has 3 of them:

```
"pageTemplates" : {
  "coverPage": {
    "frames": [
      ["0cm", "0cm", "100%", "100%"]
    ],
    "showHeader" : false,
    "showFooter" : false
  },
  "oneColumn": {
    "frames": [
      ["0cm", "0cm", "100%", "100%"]
    ]
  },
  "twoColumn": {
    "frames": [
      ["0cm", "0cm", "49%", "100%"],
      ["51%", "0cm", "49%", "100%"]
    ]
  }
}
```

A page template has a name (`oneColumn`, `twoColumn`), some options, and a list of frames. A frame is a list containing this:

```
[ left position, top position, width, height ]
```

For example, this defines a frame "at the very left", "at the very top", "a bit less than half a page wide" and "as tall as possible":

```
[ "0cm", "0cm", "49%", "100%" ]
```

And this means "the bottom third of the page":

```
[ "0cm", "66.66%", "100%", "33.34%" ]
```

You can use all the usual units, cm, mm, inch, and % which means "percentage of the page (excluding margins and headers or footers)". Using % is probably the smartest for columns and gives you a fluid layout, while the other units are better for more "fixed" elements.

Since we can have more than one template, there is a way to specify which one we want to use, and a way to change from one to another.

To specify the first template, do it in your stylesheet, in `pageSetup` (`oneColumn` is the default):

```
"pageSetup" : {
  "firstTemplate": "oneColumn"
```

```
}
```

Then, to change to another template, in your document use this syntax (will change soon, though):

```
.. raw:: pdf  
  
    PageBreak twoColumn
```

That will trigger a page break, and the new page will use the twoColumn template.

You can see an example of this in the *Montecristo* folder in the source package.

The supported page template options and their defaults are:

- showHeader : True
- defaultHeader : None  
Has the same effect as the header directive in the document.
- showFooter : True
- defaultFooter : None  
Has the same effect as the footer directive in the document.
- background: None  
The background should be an image, which will be stretched to match your page, so use with caution.

## 14 Smart Quotes

Quoted from the [smarty\\_pants](#) documentation:

This feature can perform the following transformations:

Straight quotes ( " and ' ) into "curly" quote HTML entities  
 Backticks-style quotes ( `like this` ) into "curly" quote HTML entities  
 Dashes ( -- and --- ) into en- and em-dash entities  
 Three consecutive dots ( ... or . . . ) into an ellipsis entity  
 This means you can write, edit, and save your posts using plain old ASCII straight quotes, plain dashes, and plain dots, but your published posts (and final PDF output) will appear with smart quotes, em-dashes, and proper ellipses.

You can enable this by passing the `--smart-quotes` option in the command line. By default, it's disabled. Here are the different values you can use (again, from the smarty\_pants docs):

**0**

Suppress all transformations. (Do nothing.)

**1**

Performs default SmartyPants transformations: quotes (including ``backticks" -style), em-dashes, and ellipses. "--" (dash dash) is used to signify an em-dash; there is no support for en-dashes.

**2**

Same as `smarty_pants="1"`, except that it uses the old-school typewriter shorthand for dashes: "--" (dash dash) for en-dashes, "---" (dash dash dash) for em-dashes.

**3**

Same as `smarty_pants="2"`, but inverts the shorthand for dashes: "--" (dash dash) for em-dashes, and "---" (dash dash dash) for en-dashes.

Currently, even if you enable it, this transformation will only take place in regular paragraphs, titles, headers, footers and block quotes.

## 15 Kerning

Kerning is the process of adjusting letter spacing. It is usually accepted that kerning makes your text look better.

For example, if you are using proper kerning, the As and Ws in AWAWA will overlap slightly.

If you want kerning in your PDFs, you need to do the following:

- Use wordaxe at least 1.0.0
- Use a TrueType font
- Set kerning to true in your style. For example, if you want **all** text to be kerned, you can set it in the "base" style.

For convenience, a stylesheet that uses DejaVu fonts with kerning is provided as kerning.json, so you can copy and adapt to your needs, or just use it with the `-s` option.

## 16 Sphinx

[Sphinx](#) is a very popular tool. This is the description from its website:

Sphinx is a tool that makes it easy to create intelligent and beautiful documentation, written by Georg Brandl and licensed under the BSD license.

It was originally created to translate the new Python documentation, and it has excellent support for the documentation of Python projects, but other documents can be written with it too.

Rst2pdf includes an experimental PDF extension for sphinx.

To use it in your existing sphinx project you need to do the following:

1. Add `rst2pdf.createpdf` in your `conf.py`'s extensions. For example:

```
extensions = ['sphinx.ext.autodoc', 'rst2pdf.pdfbuilder']
```

2. Add the PDF options at the end of `conf.py`, adapted to your project:

```
# -- Options for PDF output -----
# Grouping the document tree into PDF files. List of tuples
# (source start file, target name, title, author, options).
#
# If there is more than one author, separate them with \\.
# For example: r'Guido van Rossum\\Fred L. Drake, Jr., editor'
#
# The options element is a dictionary that lets you override
# this config per-document.
# For example,
# ('index', u'MyProject', u'My Project', u'Author Name',
# dict(pdf_compressed = True))
# would mean that specific document would be compressed
# regardless of the global pdf_compressed setting.

pdf_documents = [
    ('index', u'MyProject', u'My Project', u'Author Name'),
]

# A comma-separated list of custom stylesheets. Example:
pdf_stylesheets = ['sphinx', 'kerning', 'a4']

# Create a compressed PDF
# Use True/False or 1/0
# Example: compressed=True
#pdf_compressed = False

# A colon-separated list of folders to search for fonts. Example:
# pdf_font_path = ['/usr/share/fonts', '/usr/share/texmf-dist/fonts/']

# Language to be used for hyphenation support
#pdf_language = "en_US"

# Mode for literal blocks wider than the frame. Can be
# overflow, shrink or truncate
```

```

#pdf_fit_mode = "shrink"

# Section level that forces a break page.
# For example: 1 means top-level sections start in a new page
# 0 means disabled
#pdf_break_level = 0

# When a section starts in a new page, force it to be 'even', 'odd',
# or just use 'any'
#pdf_breakside = 'any'

# Insert footnotes where they are defined instead of
# at the end.
#pdf_inline_footnotes = True

# verbosity level. 0 1 or 2
#pdf_verbosity = 0

# If false, no index is generated.
#pdf_use_index = True

# If false, no modindex is generated.
#pdf_use_modindex = True

# If false, no coverpage is generated.
#pdf_use_coverpage = True

# Documents to append as an appendix to all manuals.
#pdf_appendices = []

# Enable experimental feature to split table cells. Use it
# if you get "DelayedTable too big" errors
#pdf_splittables = False

# Set the default DPI for images
#pdf_default_dpi = 72

```

### 3. (Maybe) add this in your Makefile:

```

pdf:
    $(SPHINXBUILD) -b pdf $(ALLSPHINXOPTS) _build/pdf
    @echo
    @echo "Build finished. The PDF files are in _build/pdf."

```

Then you can run `make pdf` or `sphinx-build -b pdf ...` similar to how you did it before.

## 17 Licenses

This is the license for rst2pdf:

Copyright (c) 2007,2008,2009 Roberto Alsina  
Nicolas Laurance, Christoph Zwerschke, Yasushi Masuda, Josh VanderLinden.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Some fragments of rstpdf are copied from ReportLab under the following license:

Copyright (c) 2000-2008, ReportLab Inc.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the company nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OFFICERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

- 
- 1 The `/etc/rst2pdf.conf` location makes sense for Linux and linux-like systems. if you are using `rst2pdf` in other systems, please contact me and tell me where the system-wide config file should be.
  - 2 You can get Wordaxe from <http://deco-cow.sf.net>. Version 1.0.0 or later is recommended.
  - 3 For more information, please check the PyHyphen website at <http://pyhyphen.googlecode.com>