

The Project Gutenberg RST Manual

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Title: The Project Gutenberg RST Manual
Containing a full treatise about the advantages of using
reStructuredText for ebook production along a description of its
main properties and many instructive examples of its application

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Introduction

PG-RST

PG-RST is a single-source multiple-output markup language well suited for producing simple fiction books.

PG-RST is a plain text markup language, ie. a language that tries to do markup without using tags. (In contrast HTML is a markup language that uses tags.) The amount of textual features it can express is limited (compared to HTML+CSS). It is not aimed at producing complex or technical publications.

PG-RST is based on standard RST. It extends standard RST's functionality especially in the realm of typography, but some features of standard RST are not (yet) implemented.

epubmaker

epubmaker is the software that converts PG-RST into a multitude of output formats. It is called epubmaker for historical reasons: It started as a tool to convert HTML into EPUB. Currently it can convert PG-RST into HTML4, EPUB2, Kindle7, PDF, and plain text. Support for HTML5, EPUB3 and Kindle8 are forthcoming.

RST Documentation

This file only describes the differences between PG-RST and standard RST.

Everything not described here can be found in the standard RST documentation. You should probably consult the standard RST documentation first, then come back here to see what changes PG-RST introduced over standard RST.

The documentation of standard RST can be found here:

Quick reStructuredText

reStructuredText Markup Specification

reStructuredText Directives

reStructuredText Interpreted Text Roles

The newest version of this file can always be found at:
<http://pgrst.pglaf.org/publish/181/>

Installing EpubMaker

Windows

Prerequisites

1. Install Python.

Skip this step if you already have Python either version 2.6 or 2.7 installed.

From <http://www.python.org/download/releases/2.7.2/> download the Windows x86 MSI Installer (2.7.2) and run it.

Select all the default options and install.

2. Install Python Setuptools.

From <http://pypi.python.org/pypi/setuptools> download `setuptools-0.6c11.win32-py2.7.exe` (or any newer version) and run it.

If you are using python 2.6 get the setuptools for 2.6.

3. Install Groff. (You can skip this step if you don't want to generate plain text files.)

From <http://gnuwin32.sourceforge.net/packages/groff.htm> download *Complete package, except sources - Setup* (`groff-1.20.1-setup.exe`) and run it.

Select all the default options and install.

4. Install TexLive. (You can skip this step if you don't want to generate PDF files.)

Go to <http://mirror.ctan.org/systems/texlive/tlnet> and download the file `install-tl.zip`. Then say:

```
> unzip install-tl.zip
> cd install-tl*
> install-tl
```

This will open the TeX Live installation wizard. Follow the instructions. When in doubt use the defaults.

This will take quite a while. (3 hours on an old Dell Vostro 1000 laptop. It installs about 2.5 GB in 93,000 files.) If you experience download problems, restart the wizard: it will resume the download where it left off.

Long installation instructions can be found at <http://www.tug.org/texlive/doc/texlive-en/texlive-en.html#x1-150003>

5. Install HTML Tidy. (You can skip this step if you only want to process RST files and don't want to build EPUBs from HTML input.)

If you are a post-processor you already have this.

<http://tidy.sourceforge.net/>

6. Update your PATH.

Start | Control Panel | System | Advanced | Environment Variables. Click "Path" in the User variables at the top. Click "Edit"

If the field is empty just enter (all in one line):

```
C:\Python27;
C:\Python27\Scripts;
C:\Program Files\GnuWin32\bin;
```

If the field contains data, go to the end of that data and add a semicolon if there isn't one already and then add the string above.

Click Ok three times.

EpubMaker

1. At the command prompt run:

```
> easy_install epubmaker
```

2. Test your installation:

```
> epubmaker --help
> epubmaker http://pgrst.pglafl.org/publish/181/181-rst.rst
```

Debian

Prerequisites

(Does not work with python 3 yet. If your distribution uses python 3 as default (not likely!), you'll have to parallel install python 2.6 or 2.7.)

```
# apt-get install python python-setuptools python-xml
# apt-get install groff tidy
# apt-get install libpng-dev libjpeg-dev libfreetype6-dev
```

Note: To get PDF generation to work, you have to use TeX Live version 2009-11 or newer. You can get those from debian testing or unstable. If don't want to switch from debian stable, you have to install TeX Live manually.

If you are on testing or unstable:

```
# apt-get install texlive texlive-latex-extra texlive-xetex
# apt-get install ttf-linux-libertine ttf-dejavu
```

Else, to install TeX Live manually, go to <http://mirror.ctan.org/systems/texlive/tlnet> and download the file `install-tl-unx.tar.gz`. Unpack it. Then:

```
# cd /path/where/unpacked
# perl install-tl -gui
```

Long installation instructions can be found at <http://www.tug.org/texlive/doc/texlive-en/texlive-en.html#x1-150003>

EpubMaker

```
# easy_install epubmaker
```

Kindlegen

(Optional: Used only to make Kindle files):

```
$ wget http://s3.amazonaws.com/kindlegen/kindlegen_linux_2.6_i386_v2_4.tar.gz
$ tar -xzf kindlegen_linux_2.6_i386_v2.tar.gz
```

Then copy the kindlegen executable into your path.

PG-RST Classes

PG-RST specifies a number of predefined classes, that cover most of the standard uses at PG.

Classes For Inline Text

These classes have an effect on inline text only. Mainly, you use these on `role` directives. If you put them on a block instead, all inline contents of the block will be rendered accordingly.

Using classes on a role directive.

```
.. role:: xl-sc
   :class: x-large small-caps

:xl-sc:`This Text in Extra Large Small Caps`
```

Using classes on a block.

```
.. class:: x-large small-caps

   This Text in Extra Large Small Caps
```

Classes For Inline Text I

Class	Explanation
<code>italics</code>	Switch to italic font.
<code>no-italics</code>	Switch to roman font.
<code>bold</code>	Switch to boldface.
<code>no-bold</code>	Switch to normal weight.
<code>small-caps</code>	Switch to small capitals.
<code>gesperrt</code>	Switch to gesperrt (extended letter spacing).
<code>antiqua</code>	Switch to antiqua.
<code>monospaced</code>	Switch to monospaced font.

Classes For Inline Text II

Class	Explanation
<code>smaller</code>	Switch to smaller font.
<code>larger</code>	Switch to larger font.
<code>xx-small</code>	Switch to smallest font.
<code>x-small</code>	Switch to very small font.
<code>small</code>	Switch to small font.
<code>medium</code>	Switch to normal font size.
<code>large</code>	Switch to large font.
<code>x-large</code>	Switch to very large font.
<code>xx-large</code>	Switch to largest font.

Classes For Block Text

These classes have an effect on block text. Please do not confuse the alignment of the block with the alignment of the text in the block. Eg. a table can be centered, while the text inside the table is left-aligned. The alignment of the block is set with the `align` option.

Classes For Front Matter Markup

EpubMaker includes a few classes to markup front matter. While it is not necessary to do this, it adds value. In future the PG catalog might automatically extract not only the cover page but also the title page, verso, etc.

Use these classes on a `container`.

Using the `titlepage` class.

```
.. cleardoublepage::  
  
.. container:: titlepage  
  
    Pride and Prejudice  
  
    .. vspace:: 2  
  
    by Jane Austen.
```

Classes For Inline Text III

Class	Explanation
red	Switch to red font.
green	Switch to green font.
blue	Switch to blue font.
yellow	Switch to yellow font.
white	Switch to white font.
gray	Switch to gray font.
black	Switch to black font.

Classes For Block Text

Class	Explanation
left	Left-aligns the text in the block.
center	Centers the text in the block.
right	Right-aligns the text in the block.
justify	Justifies the text in the block.
noindent	Removes indentation of this paragraph in formats where paragraphs are indented.
white-space-pre-line	Preserves newlines.

Classes For Front Matter Markup

Class	Explanation
coverpage	The cover page.
frontispiece	The frontispiece.
titlepage	The title page.
verso	The title page verso.
dedication	The dedication page.
plainpage	A general class for page.

PG-RST Extensions

You can create custom roles based on the existing ones. This is how you create and then use custom roles.

Creating a custom role.

```
.. role:: small-caps  
   :class: small-caps
```

This text is in :small-caps:`Small Caps`.

This text is in SMALL CAPS.

You can attach more than one class to a role:

Creating another custom role.

```
.. role:: big-and-bold  
   :class: x-large bold
```

This text is :big-and-bold:`big and bold`.

This text is **big and bold**.

Styles

With the `style`-directive you can set classes and options on elements in a CSS-like fashion.

`style` is local to the enclosing element. Global styles must be set before the document title.

The (mandatory) argument is a CSS-like selector. It has the form: `[element][.class[class]] [, [element][.class]]`]

`Element` matches the element name while `.class` matches any class on the element.

Option `formats` selects for which output formats the directive will apply. A space-separated list of format specifiers. If this option is missing the directive applies to all output formats.

Valid output format specifiers are: `html.images html.noimages epub.images epub.noimages kindle.images kindle.noimages pdf.images pdf.noimages txt.utf-8 txt.iso-8859-1 txt.us-ascii`.

`*` acts as wildcard. Eg. `txt.*.images`

A `'-'` negates the test. Eg. `-txt.*`

Caveat: new formats may be added in future releases of epubmaker.

Option `class` adds classes to all matched elements.

Option `width` sets the width on all matched elements.

Option `align` sets the alignment on all matched elements.

Option `before` adds text before all matched elements.

Option `after` adds text after all matched elements.

Option `display` set to `'none'` hides the element.

If the `style`-directive has content, it will replace the content of all matched elements with the directive's content.

Redeclaring the presentation of emphasis.

```
.. style:: emphasis
   :class: no-italics gesperrt
```

Now `*emphasis*` will be rendered as `gesperrt`.

Now `e m p h a s i s` will be rendered as `gesperrt`.

Redeclaring the presentation of strong emphasis.

```
.. style:: strong
   :class: no-bold small-caps
```

And **Strong Emphasis** will be rendered as small-caps.

```
.. style:: strong
   :class: small-caps x-large bold
```

And **Strong Emphasis** will be rendered as big bold small-caps.

And STRONG EMPHASIS will be rendered as small-caps.

And **STRONG EMPHASIS** will be rendered as big bold small-caps.

Setting the width of all illustrations.

```
.. style:: figure.illustration
   :width: 50%
   :align: center
```

All figures with a :option:`:figclass:` of illustration are now set to 50% width and are center aligned.

Redeclaring some more presentations.

```
.. style:: literal
   :class: red

``literally red``

.. style:: superscript
   :class: green

:superscript:`sup` er

.. style:: title_reference
   :class: blue

:title-reference:`Hamlet` and `Othello`.
```

literally red

^{er}

Hamlet and *Othello*.

Declaring a passage of foreign text.

```
.. role:: french
   :class: language-fr italics

:french:`Pas de double` is the French for "father of twins".
```

Pas de double is the French for "father of twins".

Declaring the language of the whole document.

```
.. style:: document
   :class: language-de
```

The whole document is in German.

Replacing transitions with images.

```
.. style:: transition
   :formats: *.images
   :class: center

   .. image:: images/G.png
      :float: none
```

Localizing plain text illustration markers.

```
.. style:: caption.figure-caption
   :formats: txt.*
   :class: left
   :before: '[Abbildung: '
   :after:  ']
```

Forced Line Breaks

Line blocks (|) are semantically associated with poetry and should not be used to force line breaks in text that is not poetry.

PG-RST offers extensions to force line breaks:

1. You may set the class `white-space-pre-line` on any object or container. All text elements inside that object will retain the line breaks of the rst source.

```

                                Line breaks 1.

.. container:: white-space-pre-line

    Line one
    Line two
    Line three

Line one
Line two
Line three
```

If processed with vanilla docutils, the text will flow and the line breaks will not be preserved.

2. You may specify a role with class `white-space-pre-line` once in the file header and then use that role on inlined text.

Again, if processed with vanilla docutils, the text will flow and the line breaks will not be preserved.

Line Breaks in Titles

To have line breaks in a title, you must: 1) somehow put the newline character in the title, and 2) somehow put the `white-space-pre-line` class on the title element.

You achieve 1) by declaring a substitution reference once in the file header and then use the substitution reference in the title.

Line breaks 2.

```
.. role:: br
   :class: white-space-pre-line

:br:`Line one
Line two
Line three`

Line one
Line two
Line three
```

You achieve 2) by styling all title elements in the document with the class `white-space-pre-line`.

Line breaks 3.

In the document header use:

```
.. |nl| unicode:: 0x0A .. new line
   :trim:

.. style:: title
   :class: white-space-pre-line
```

Then in the document body use:

```
Chapter I |nl| Down The Rabbit Hole
```

Line Breaks in Figure Captions

Put the `white-space-pre-line` class into the `figclass` option, or use the `:br:` rule as shown above.

Line breaks 4.

```

.. figure:: images/pretty.png
   :figclass: white-space-pre-line

Line One
Line Two

```

Pagination

Pagination is important if you generate PDFs. See the Directives For Pagination Table.

Table of Contents

Use the RST `contents` directive to automatically generate a table of contents.

N.B. You may also provide a table of contents manually.

The `local` option displays a local table of contents, containing only the sub-sections of the section in which it is declared.

The `page-numbers` option displays the original page number in the TOC.
Generating a table of contents.

```

.. contents::
   :depth: 2
   :page-numbers:
   :backlinks: none

```

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epubmaker	1
RST Documentation	1
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Directives For Pagination

Directive	Explanation
<code>clearpage</code>	This directive inserts a page break.
<code>cleardoublepage</code>	This directive inserts page breaks so that the next item starts on a right-hand page.
<code>vfill</code>	<p>(PDF only.)</p> <p>This directive generates `elastic` vertical space. This space expands to all of the free space on one page. If you use this more than once on a page, the free space is equally divided among all invocations.</p> <p>To vertically align an item to the bottom, use <code>vfill</code> before that item.</p> <p>To vertically align an item about 1/3 of the page use <code>vfill</code> once before the item and twice after the item.</p>
<code>frontmatter</code>	<p>(PDF only.)</p> <p>Put this directive at the start of your book.</p> <p>The <code>pgheader</code> directive uses this directive internally, so you can omit <code>frontmatter</code> whenever you use <code>pgheader</code>.</p> <p>This directive turns on roman page numbers.</p>
<code>mainmatter</code>	<p>(PDF only.)</p> <p>Put this directive after the table of contents and before the first chapter.</p> <p>This directive switches from roman page numbering to arabic page numbering and resets the page counter.</p>
<code>backmatter</code>	<p>(PDF only.)</p> <p>Put this directive before appendices or indices.</p>

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List of Figures

Use the `lof` directive to generate a list of figures automatically.

The `selector` option allows to filter the selected figures in a CSS-like manner.

N.B. You may also provide a list of figures manually.

Generating a list of illustrations.

```
.. lof::
  :page-numbers:
  :backlinks: none
  :selector: figure.illustration

  Richard and Drucilla Martin . . . . . 43
```

This example builds a list of all figures with class `chart` or class `map`.

Generating a list of maps and charts.

```
.. lof::
  :page-numbers:
  :backlinks: none
  :selector: figure.chart, figure.map
```

List of Tables

Use the `lot` directive to generate a list of tables.

N.B. You may also provide a list of tables manually.

Generating a list of tables.

```

.. lot::
  :page-numbers:
  :backlinks: none

```

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Toc-Entry

Use the `toc-entry` directive to:

- provide an alternate toc entry
- suppress a toc entry, or
- switch toc gathering on or off.

A `toc-entry` with argument sets the argument as toc entry for the next section, figure or table.

A `toc-entry` without argument suppresses the toc entry for the next section, figure or table.

Use the `depth` option to set the depth up to which section titles are gathered for the toc. A depth of 0 switches toc gathering off.

Alternative captions.

```
.. toc-entry:: An Alternative Caption
.. table:: A Caption
```

Footnotes

Footnotes must be defined in the order they are referenced. Define a footnote where it should appear in the plain text file. In HTML all footnotes get moved to the footnote section. In PDF they appear at the bottom of the current page.

To collect the footnotes at the end of the text in HTML use the `footnotes` directive. (In PDF and TXT formats the `footnotes` directive will do nothing.¹)

Test one² two³.

¹Not even print the section title.

²Another footnote, to test how multiple footnotes⁴ stack on one page.

³Later editions continued as follows:

When the sands are all dry, he is gay as a lark,
 And will talk in contemptuous tones of the Shark,
 But, when the tide rises and sharks are around,
 His voice has a timid and tremulous sound.

⁴Gibbon test. A footnote inside a footnote.

Declaring a footnote section.

```
.. footnotes::
   :class: smaller
```

Positioning of footnotes

Format	Position
TXT	Where they are defined.
HTML	Collected under the footnotes directive.
EPUB	"
PDF	At the bottom of the current page.

Page Numbers

The sequence [pg n] will convert into a page number marker of n. n can be any arabic or roman numeral. The sequence itself will be removed from the text flow leaving a page anchor. There *must* be spaces around the sequence. If the page break is in the middle of a word, join the word and put the sequence at the end of the word.

Declaring page numbers.

Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt [pg 42] ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores [pg xviii] et ea rebum.

Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum.

(42)
(xviii)

A reference to a page number can be inserted with the sequence `[pg n]_`. This will generate a link to the page anchor.

Declaring a page number reference.

See page `[pg 42]_`.

See page [42](#).

An invisible page number can be inserted with the sequence `[pg!n]`.

Declaring invisible page numbers.

Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt `[pg!43]` ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. See page `[pg 43]_`.

Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. See page [43](#).

See page [iii](#).

Line Numbers

The sequence `[ln n]` will convert into a line number marker of `n`. `n` can be any arabic numeral. The sequence itself will be removed from the text and the line number printed on the far right.

As ids have to be unique, only the first line with any number will have an anchor automatically inserted.

A reference to a line number can be inserted with the sequence `[ln n]_`. This will generate a link to the first line that has the number `n`.

An invisible line number can be inserted with the sequence `[ln!n]`.

Declaring line numbers.

```
| Habe nun, ach! Philosophie,           [ln 1]
| Juristerei und Medizin,
| Und leider auch Theologie
| Durchaus studiert, mit heißem Bemühn.
| Da steh ich nun, ich armer Tor!      [ln 5]
| Und bin so klug als wie zuvor;
```

Habe nun, ach! Philosophie,	1
Juristerei und Medizin,	
Und leider auch Theologie	
Durchaus studiert, mit heißem Bemühn.	
Da steh ich nun, ich armer Tor!	5
Und bin so klug als wie zuvor;	

Declaring a line number reference.

See line [ln 5]_.

See line [5](#).

Dropcaps

You can insert dropcaps with the `dropcap` directive. You can use either an enlarged character or an image as dropcap. You can also specify a span of character that should be set in small-caps after the dropcap initial.

Support for dropcaps in output formats

Format	Letter	Image
HTML	enlarged and dropped	resized and dropped
EPUB	enlarged on baseline	resized on baseline
TXT	normal size	alt text
PDF	enlarged and dropped ⁵	resized and dropped ⁵

The first argument (mandatory) states the character(s) to replace with caps. It must match the beginning of the next paragraph.

The second (optional) argument states the characters to replace with small-caps. It must also match the beginning of the next paragraph. The `lines` option (PDF only) specifies how many lines the dropcap should span. Default is 2.

The `indents` option (PDF only) can specify up to 2 length values. The first one is the indent of the first line, the second one the indent of the following lines. The indent is calculated from the right border of the dropcap letter. Defaults are 0 em and 0.5 em.

The `image` option specifies the image url.

The `raise` option (PDF only) moves the dropped capital up (if positive) or down (if negative). Values must be between 1 and -1. Useful with capitals like J or Q which have a positive depth, (default=0).

Tables

Be careful with tables because the table support of many ereaders is weak or nil.

Tables also support these options:

⁵ *Warning:* If a paragraph with a dropcap gets page-broken the dropcap may stick into the page bottom. Avoid dropcaps unless you are sure that you are at the top of a page, like at a chapter start.

width Makes the table that wide.

widths A space-separated list of unitless values, each specifying the relative width of one table column.

If you don't use the option **widths**, the column widths are calculated from the layout of the table in your source file.

aligns Horizontally align the columns.

A space-separated list of alignments, each specifying the alignment of one column.

Valid alignments values are: left, center, right and justify.

vertical-aligns Vertically align the columns.

A space-separated list of vertical alignments, each specifying the alignment of one column.

Valid alignments values are: top, middle, and bottom.

Note: vertical alignment is fully supported in HTML only. Other formats may support it in varying degrees.

summary (HTML only.) Puts a summary attribute on the table element.

hrules Valid arguments are: none, table, rows.

'None' omits all horizontal rules. 'table' draws rules at the top and bottom of the table and between header and body. 'rows' draws rules between rows.

float (PDF output only.) Specify where the table should go if there is not enough room on the page left to put it here.

Valid arguments are:

none does not move the table from its position in the text flow. This may leave a lot of empty space on the page before the table, though.

here puts the table where it is if there is enough space left on the page, else floats it to another location.

top puts the table at the top of the next page.

bottom puts the table at the bottom of this page or the next page.

page puts the table on a page of its own.

Declaring a table 1.


```

.. table:: Demo Table
:width: 100%
:align: center
:widths: 3 1 1 1
:aligns: justify justify center right
:vertical-aligns: top middle bottom top
:summary: This table contains valuable data.
:hrules: table rows
:float: none

```

Header row, column 1 (header rows optional)	Justified	Centered	Price (\$)
row 1	column	column	1.23
row 2	col col	col	45.67
	col col		
	col col		
	col		
row 3	Cells may span columns. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam sed diam voluptua. At vero eos accusam et justo duo dolores et rebum.		
Cells may span rows and columns. Lorem ipsum dolor sit amet, consetetur adipiscing.	Cells may span rows.	row 4 ----- row 5	

Demo Table

Header row, column 1 (header rows optional)	Justified	Centered	Price (\$)
------------------------------------------------	-----------	----------	------------

row 1	column	column	1.23
row 2	col col col col col col col	col	45.67
row 3	Cells may span columns. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam sed diam voluptua. At vero eos accusam et justo duo dolores et rebum.		
Cells may span rows and columns. Lorem ipsum dolor sit amet, consetetur adipiscing.		Cells may span rows.	row 4
			row 5

Declaring drop caps 1.

```
.. dropcap:: L L'orem ipsum
   :lines: 4
   :indents: -1.25em 0.5em
```

L'orem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua.

L'OREM IPSUM dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua.

Declaring drop caps 2.

```
.. dropcap:: G
   :image: images/G.png
   :lines: 4
   :raise: 0.5
```

Gorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua.



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Declaring a table 2.

```
.. table:: Truth table for "and"
   :hrules: table
   :align: center
   :width: 50%
   :float: none
```

```
=====
A      B      A and B
=====
False False False
True  False False
False True  False
True  True  True
=====
```

Truth table for "and"

A	B	A and B
False	False	False
True	False	False
False	True	False
True	True	True

PG Metadata

Top Boilerplate

This section explains the PG boilerplate that you must put at the top of your PG-RST file.

It looks like this:

- (1) Insert this line verbatim. It must be the first line in the text.⁶ This tells the converter to use UTF-8 encoding and is also recognized by many editors.
- (2) This will be the first line of the generated files. It should say either: “The Project Gutenberg Ebook of Title” or just “Title”. Use ‘=’ bars above and below the title.
- (3) The docinfo section: see section below.
- (4) This directive inserts a page break.
- (5) This directive inserts the PG header as generated from the docinfo section.

Docinfo section

The docinfo contains all data that is used to generate the PG header and the PG catalog entry.

It consists of a list of name-value pairs. The name part may be a plain name like ‘coverpage’ or a scheme.name pair. The scheme is used to group the entries of the docinfo section into related groups.

Building the PG boilerplate 1.

```
.. -*- encoding: utf-8 -*-          (1)
```

```
=====
```

```
Short Title                        (2)
```

```
=====
```

```
:PG.Title: Very Short Title       (3)
```

```
:PG.Id: 181
```

```
:PG.Released: 2010-11-25
```

```
:PG.Reposted: 2011-11-25 HTML version created
```

```
:PG.Reposted: 2012-11-25 textual corrections applied
```

```
:PG.Rights: Public Domain
```

```
:PG.Producer: Woody Guthrie
```

```
:PG.Producer: Pete Seeger
```

```
:PG.Producer: The Almanac Singers
```

```
:PG.Credits: This file was produced from images stolen from the Louvre.
```

```
:DC.Creator: Jane Austen
```

```
:MARCREL.edt: Mark Twain
```

```
:MARCREL.ill: Édouard Manet
```

```
:DC.Title: Full Title Statement
```

```
:DC.Language: en
```

```
:DC.Language: fr
```

```
:DC.Language: de
```

```
:DC.Created: 1900
```

```
:coverpage: images/cover.jpg
```

```
.. clearpage::                    (4)
```

```
.. pgheader::                     (5)
```


Fields In the PG Scheme

Name	Contents
PG.Id	The ebook number.
PG.Released	The PG release date in YYYY-MM-DD format.
PG.Reposted	Date of repost in YYYY-MM-DD format. A short comment may be appended. Don't put more than one date in this field. Repeat the field if necessary.
PG.Rights	Either 'Public Domain' or 'Copyrighted'.
PG.Title	A much shortened form of the title. Used in the PG boilerplate in the lines that say: "**** START OF ..." and "****END OF ...". This field is optional. It defaults to the first line of the 'DC.Title' field.
PG.Producer	A personal name or organization that helped produce this text. This field may appear more than once. Don't put more than one name into one field. Repeat the field if necessary.
PG.Credits	A line acknowledging the source of the page scans, etc.

PG Scheme

The PG scheme holds data that is relevant to Project Gutenberg only.

DC Scheme

This scheme is standardized by the *Dublin Core Metadata Initiative* and is understood by many search engines and also by the PG cataloguing software.

MARCREL Scheme

This scheme is used to record contributions to the text, that are more narrow than Dublin Core allows you to specify.

All these fields may appear more than once. Don't put more than one name into one field. Repeat the field if necessary.

No Scheme

Some fields are associated with none of the above schemes.

Bottom Boilerplate

You must put this at the very bottom of your PG-RST file.

Fields In the DC Scheme

Name	Contents
DC.Creator	Author. A personal name or organization that created the text. May appear more than once. Don't put more than one name into one field. Repeat the field if necessary.
DC.Title	The full title statement as found on the book's title page.
DC.Language	The 2 or 3 letter code for all languages used for substantial portions of the text. May appear more than once. Don't put more than one code into one field. Repeat the field if necessary. The languages listed here are indicative for the catalog and do not set the text language and hyphenation rules. Use the option <code>class language-<language-code></code> for that.
DC.Created	The year of original publication if known.

Fields In the MARCREL Scheme

Name	Contents
MARCREL.edt	Editor
MARCREL.ill	Illustrator
MARCREL.trl	Translator
MARCREL.*	See the full list of MARC relator codes.

Fields Without Scheme

Name	Contents
coverpage	A coverpage for those formats (eg. Kindle) that support a cover page. This image must be included in the upload but must not necessarily be put in the text flow.

PG-RST Best Practices

Titles

If you include the PG license (using the `pgfooter` directive) , you have to use these characters for underlining titles in your text:

```
Title levels.  
  
Title Level 1  
=====
```

```
Title Level 2  
-----
```

```
Title Level 3  
.....
```

The license has 3 levels of titles and uses these characters. You have to use the same ones.

Titlepages

Don't use line blocks to format title pages etc. Line blocks have the semantics of poetry. They wrap with the second and further lines indented.

Instead use a `container` with a class of `white-space-pre-line` and the `vspace` directive to obtain vertical spacing.

A well-formatted title page.

A title page formatted like poetry. (Don't do this!)

```
|
|
|
|
| Title of Work
|
| by
|
| Author
```

```
.. cleardoublepage::
```

```
[pg!3]
```

```
.. container:: titlepage center white-space-pre-line
```

```
:xl:`ADVENTURES`
```

```
.. vspace:: 2
```

```
OF
```

```
.. vspace:: 2
```

```
:xl:`HUCKLEBERRY FINN`
```

```
.. vspace:: 1
```

```
(TOM SAWYER'S COMRADE).
```

```
.. vspace:: 2
```

```
Scene: The Mississippi Valley.
```

```
Time: Forty to Fifty Years Ago.
```

```

.. vspace:: 2

BY

.. vspace:: 1

:xl:`MARK TWAIN` .

.. vspace:: 2

WITH ONE HUNDRED AND SEVENTY-FOUR ILLUSTRATIONS.

.. vfill::

NEW YORK:
CHARLES L. WEBSTER AND COMPANY.
1885.

```

The `vfill` directive inserts elastic space, that fills the remaining blank space, pushing the last 3 lines to the bottom of the page.

Images

Specify a `width` option in images and a `figwidth` option in figures and express it in percent.

If you don't specify a width, the converter will calculate the width percentile for you, using the formula:

$$\text{image_width} / (980\text{px} * 0.8) * 100$$

(980px is the approx. wide of a browser window with scrollbar on a 1024px wide screen, 0.8 are 10% margins left and right.)

Expressing the image size relative to the screen width is the best way to get images right on a wide variety of devices from iPhones to print.

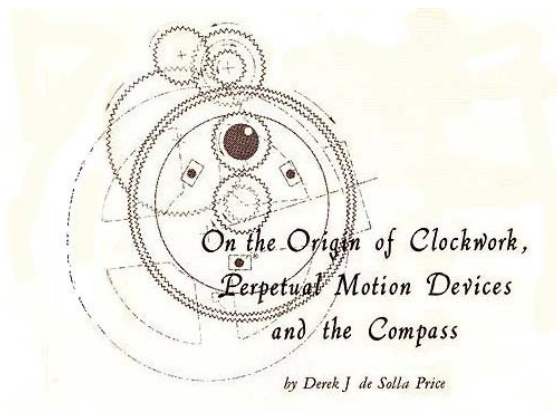
Declaring a figure.

```
.. toc-entry:: Richard and Drucilla Martin
```

```
.. figure:: images/cover.jpg
   :figclass: illustration
   :align: center
   :alt: Richard and Drucilla Martin
```

```
:lb:`Richard Martin was a slave in Memphis, Tennessee.
Drucilla Martin was a slave in Giles County, Tennessee.`
```

The legend consists of all elements after the caption. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum.



Paper 6, pages 81-112, from

CONTRIBUTIONS FROM THE MUSEUM
OF HISTORY AND TECHNOLOGY

UNITED STATES NATIONAL MUSEUM
BULLETIN 218



SMITHSONIAN INSTITUTION • WASHINGTON, D.C., 1959

*Richard Martin was a slave in Memphis, Tennessee.
Drucilla Martin was a slave in Giles County, Tennessee.*

The legend consists of all elements after the capti-
on. Lorem ipsum dolor sit amet, consetetur sadipscing
elit, sed diam nonumy eirmod tempor invidunt ut la-
bore et dolore magna aliquyam erat, sed diam volup-
tua. At vero eos et accusam et justo duo dolores et ea
rebum.

Tests and Examples

Notice

The rest of this file contains tests. You may look at the RST source to learn how things are done.

A generated local table of contents:

[Danny Deever](#)

[Section 3.1](#)

[Section 3.2](#)

[Section 3.3](#)

A local table of contents as highlights:

Kingston — Instructive remarks on early English history — Instructive observations on carved oak and life in general — Sad case of Stivvings, junior — Musings on antiquity — I forget that I am steering — Interesting result — Hampton Court Maze — Harris as a guide.

ÄÖÜ äöüß Æsop Ædipus cœr. Ð. †‡ ☒. §2.1

“ ’ ‘ ” ‹ em — en —.

“Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut

labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est. Lorem ipsum dolor sit amet.”



Caption.



- (3) Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est. Lorem ipsum dolor sit amet.

Transition follows.



Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est. Lorem ipsum dolor sit amet.

Transition follows.



- (4) Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est. Lorem ipsum dolor sit amet.

A simple poem:

Habe nun, ach! Philosophie,
 Juristerei und Medizin,
 Und leider auch Theologie
 Durchaus studiert, mit heißem Bemühn.
 Da steh ich nun, ich armer Tor!
 Und bin so klug als wie zuvor; 5

A poem that is inside a block quote:

Habe nun, ach! Philosophie, 1
 Juristerei und Medizin,
 Und leider auch Theologie
 Durchaus studiert, mit heißem Bemühn.
 Da steh ich nun, ich armer Tor! 5
 Und bin so klug als wie zuvor;

Two fancy-formatted poems:

‘Speak roughly to your little boy,
 And beat him when he sneezes:
 He only does it to annoy,
 Because he knows it teases.’ 1

CHORUS.

5

(In which the cook and the baby joined):—

‘Wow! wow! wow!’

	Summer wanes, the children are grown;	1
	Fun and frolic no more he knows;	2
(5)	Robert of Lincoln’s a humdrum crone;	3
	Off he flies and we sing as he goes:	4
	Bob-o’link, bob-o’-link,	5
	Spink, spank, spink;	6
	When you can pipe that merry old strain,	7
	Robert of Lincoln, come back again.	8
	Chee, chee, chee.	9

Danny Deever

"What are the bugles blowin’ for?" said Files-on-Parade.

"To turn you out, to turn you out", the Colour-Sergeant said.

"What makes you look so white, so white?" said Files-on-Parade.

"I’m dreadin’ what I’ve got to watch", the Colour-Sergeant said.

For they’re hangin’ Danny Deever, you can hear the Dead March play,
 The regiment’s in ’ollow square—they’re hangin’ him to-day;
 They’ve taken of his buttons off an’ cut his stripes away,
 An’ they’re hangin’ Danny Deever in the mornin’.

"What makes the rear-rank breathe so ’ard?" said Files-on-Parade.

"It’s bitter cold, it’s bitter cold", the Colour-Sergeant said.

"What makes that front-rank man fall down?" said Files-on-Parade.

"A touch o’ sun, a touch o’ sun", the Colour-Sergeant said.

They are hangin’ Danny Deever, they are marchin’ of ’im round,
 They ’ave ’altd Danny Deever by ’is coffin on the ground;
 An’ ’e’ll swing in ’arf a minute for a sneakin’ shootin’ hound—
 O they’re hangin’ Danny Deever in the mornin’!

"’Is cot was right-’and cot to mine", said Files-on-Parade.

"E's sleepin' out an' far to-night", the Colour-Sergeant said.

"I've drunk 'is beer a score o' times", said Files-on-Parade.

"E's drinkin' bitter beer alone", the Colour-Sergeant said.

They are hangin' Danny Deever, you must mark 'im to 'is place,
For 'e shot a comrade sleepin'—you must look 'im in the face;
Nine 'undred of 'is county an' the regiment's disgrace,
While they're hangin' Danny Deever in the mornin'.

"What's that so black agin' the sun?" said Files-on-Parade.

"It's Danny fightin' 'ard for life", the Colour-Sergeant said.

"What's that that whimpers over'ead?" said Files-on-Parade.

"It's Danny's soul that's passin' now", the Colour-Sergeant said.

For they're done with Danny Deever, you can 'ear the quickstep play,
The regiment's in column, an' they're marchin' us away;
Ho! the young recruits are shakin', an' they'll want their beer to-day,
After hangin' Danny Deever in the mornin'.

And now for something completely different:

(6) Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.

— Lore Ipsum

Who could have stolen the tickets was a mystery, until a slip of paper was handed to Giles, the treasurer, which read:

"Leo Dunbar was hanging around the ticket wagon last night. Better watch and search him.

"A Friend."

Giles lost no time in acting upon the suggestion given in the note. He ran to the dressing-tent and, finding a key to fit Leo's trunk, opened it.

(7) **Section 3.1**

I pity the man who can travel from Dan to Beersheba, and say “’Tis all barren;” and so is all the world to him who will not cultivate the fruits it offers.

—— Sterne: Sentimental Journey.

Simple List with hyphens

- Wash left ear.
- Wash right ear.
- Brush teeth.

Simple List with bullets

- Wash left ear.
- Wash right ear.
- Brush teeth.

Nested List

1. Item 1.
 - a) Item 1a.
 - b) Item 1b.
 - I) Item 1.a.I
 - II) Item 1.a.II
 - III) Item 1.a.III
 - IV) Item 1.a.IV

- (8)
2. A)
 - i) Item 2.A.i
 - ii) Item 2.A.ii
 - B)
 - i) Item 2.B.i
 - ii) Item 2.B.ii

iii) Item 2.B.iii

C) Item 2.C

3. Item 3.

Definition List

term Definition.

term 2 Definition 2

Definition 2 paragraph 2.

long term 3 Definition 3

Option List (not used by PG)

-a, command-line option "a"

-1 *file*, --one =*file*, --two *file*, Multiple options with arguments.

(123)

Section 3.2⁷

Some text so this section isn't empty.

Just editing something to test VCS. More.

Section 3.3

THE MAN WHO PLEASES.

The dearest friend to me, the kindest man, jabbada jabbada jabbada jabbada jabbada jabbada jabbada jabbada

The best-conditioned and unwearied spirit

In doing courtesies.

— MERCHANT OF VENICE.

He hath a daily beauty in his life.

— OTHELLO.

⁷This title contains a footnote reference. The footnote reference will not show up in the TOC.

Transcriber's Note

Minor spelling errors have been silently corrected.
Hyphenation has been made consistent.

*** END OF THIS PROJECT GUTENBERG EBOOK PG-RST MANUAL ***

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