

ELCOME TO THE RPGTEX PACKAGE. This LATEX package is designed to allow users to flexibly typeset documents associated with Role Playing Games such as *Dungeons & Dragons* -- and many more besides. This packages defines a central engine: rpgcore which define a number of useful functions and classes, and a flexible set of themes which control how those commands are rendered in the final document.

Attribution & License

This package would not have been possible without the team who developed its predecessor, the `DND 5e LateX Template' . That code was released under an MIT license, the text of which can be found in the LICENSE file. rpgtex is released under the same license.

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PART I rpgtex Core

Chapter 1: Installation & Usage

Getting rpgtex

There are a number of different ways to acquire rpgtex. Once you have installed it, it is vital to ensure that it is properly configured (see below).

texmf Installation

The simplest way to use rpgtex is to install it on the texmf path, where the compiler can automatically find it:

git clone

https://github.com/DrFraserGovil/rpgtex.git "\$(kpsewhich -var-value TEXMFHOME)/tex/latex/rpgtex"

This will clone the repository into your LATEX path.

Indirect Installation

If you want to tinker with rpgtex -- such as by creating a new theme -- it is helpful to have it in a more accessible location. Clone the repository into a location of your choice:

git clone

https://github.com/DrFraserGovil/rpgtex.git ~/your/rpgtex/directory

You then have two options to make the package visible to the compiler:

Use TEXINPUTS

Setting the environment variable TEXINPUTS allows the compiler access:

TEXINPUTS=~/your/rpgtex/directory/::

(Or similar commands, depending on your shell -- in fish you would call set TEXINPUTS dir).

Use Symlinks

You can symlink the install location to the texmf directory, allowing the compiler to act as if you had performed the texmf installation:

Overleaf (Not recommended!)

We do not recommend using Overleaf since the free-tier subscription has reduced compilation times drastically, making compiling documents using complex packages such as this one extremely difficult. Nevertheless:

 Download this GitHub repository as a ZIP archive using the Clone or download link above.

- On Overleaf, click the New Project button and select Upload Project. Upload the ZIP archive you downloaded from this repository.
- 3. Manually create the file rpg-config.cfg with the contents ``\edef\RpgPackagePath{../}''. This replaces the configuration step described below.

Configuring rpgtex

Wherever one installs rpgtex from, it is vital that it is properly configured. From within the rpgtex-root directory, call:

./configure

Or -- if one is (reasonably!) wary about running arbitrary executables -- manually create the relevant file:

cd <rpgtex root directory>
cmd="\edef\RpgPackagePath{\$(pwd)}"
echo \$cmd >> core/rpg-config.cfg

Why is configuration necessary?

TEX is generally set up so that when a file calls include or input it is possible to use filepaths relative to the package itself. rpg.sty can call \input{core/font.sty} and it will know to first check for the file relative to rpg.sty; even if the package resides within the texmf path and the user has no idea where rpgroot/rpg.sty, or rpgroot/core/font.sty, are.

An annoying exception to this is fonts and typefaces. xelatex searches for fonts based on *filepaths relative to* the current working directory -- or from those installed in as system fonts.

Since rpgtex includes several (license free) typefaces as part of the provided themes, this poses a problem. We must either require that:

- rpgtex documents can only be prepared in restricted locations relative to the install location of rpgtex.
- 2. Users must identify and specify the rpgtex root path when preparing a document
- 3. Users must install the provided fonts to the system path
- 4. rpgtex must be configured to know `where it is', and so provide an absolute filepath to the internal fonts.

The Configuration step is the most portable and easiest-to-use of these options.

Without a core/rpg-config.cfg file, any document which includes rpgtex will fail to compile.

Package & Class Usage

rpgtex can be used either as a standalone package, or as part of a number of classes

Standalone Package

The standalone package can be used directly by including the rpgtex package:

\documentclass{arbitrary-class}

\usepackage[options]{rpgtex}

\begin{document}

This will load only the core commands into the document, and (unless called explicitly) no themes will be imported. Using the package in this way does not activate any of the commands which change the overall geometry, background or headers of the document.

Classes

rpgtex can also be loaded through a number of classes which drastically alter the appearance of the document, defining new geometries backgrounds and adding headers

The provided classes are:

- 1. rpgbook (page 28). Based on the standard book class, this is designed for larger RPG documents.
- 2. rpghandout (page 29). Based on the article class, this is designed for shorter documents
- 3. rpgcard (page 30). A small-document class designed for creating modular `handout' cards for items, spells or abilities.

Compiling rpgtex Documents

rpgtex uses the fontspec package to allow custom fonts, and therefore requires compiling with xelatex or luatex:

```
xelatex main.tex #works
luatex main.tex #works
pdflatex main.tex #fails
```

So long as rpgtex is on the user's latex path, and the package properly configured (page 2) no further compilation steps are required. However, for ease of use, we provide the rpglatex compiler as part of the rpgtex distribution.

The rpglatex compiler

rpgtex is shipped with a special compiler, rpglatex. This is simply a python3 script which acts as a wrapper around either xelatex or luatex, but includes several quality-of-life changes to the interface to make it easier to use with rpgtex.

rpglatex Compiles latex documents using either xelatex or luatex

Syntax

rpglatex [options] <file>

Details

rpglatex has the following features:

| Feature | Description | Options |
|----------------------|---|------------------------------|
| Compiler Selection | The xelatex compiler is selected by default, but the -1, -luatex flags set it to use luatex instead. | -1, -luatex |
| Build Directory | Compilation files (.aux, .log etc.) are stored in a build directory. The default is .build in the calling location, but can be changed with the -b flag | -b <build dir=""></build> |
| Output Naming | The name of the output file can be changed from the default (equal to the input tex name) | -o <output name=""></output> |
| Multi-pass Compiling | By default, the compiler runs twice in a row to enable references and tikz[remember] commands to function. A full three-compilation suite (necessary for very complex or reference-heavy documents) can be activated with the -f, -full flag | -f, -full |
| Volume Control | latex is notoriously noisy, producing copius output. By default, this is suppressed and only a summary is printed. The summary can be removed (rendering it completely silent) with the -q command, or the original output recovered in verbose mode; -v. These outputs are always overriden if a compilation error occurs, in which case the full trace is output to the console. | -q, -v |
| Auto-bibtex | If the -r or -ref flag is set, bibtex is automatically called in between the multi-compilation steps | -r, -ref |
| Auto-visualisation | If the -show 1 option is set (which it is by default), the compiler will call xdg-open <output-file> upon completion of the compilation; automatically opening or context-switching to the document. This can be turned off by calling -show 0</output-file> | -show |
| Print Mode | A special interface for rpgtex, this uses the \RpgCMD interface (page 20) to inject code into the latex document, setting the bg=print mode and suppressing the background output. | -p, -print |

Chapter 2: Main Engine

``Theme Commands''

Several commands in this documentation are described as **Theme Commands**. These are commands that the user is *not expected to call*, but which are executed by the internal engine in the process of rendering the page, or as a result of other commands that the user has called.

A user who wishes to simply write documents using an unmodified rpgtex need only concern themselves with the User-Facing Commands.

On the other hand, these Theme Commands have been designed to provide a convenient interface for creating custom Themes -- and so their documentation allows for designers to create powerful and flexible themes from within rpgtex. Theme Commands can be split into two groups:

- 1. **Backend Commands** These are commands which are executed within a theme (or a class) to modify internal values, such as fonts and colors. A designer interacts with these commands by calling them.
- 2. Placeholder Commands These are virtual commands which are designed to be overwritten with completely custom code, which is executed when the core engine runs the command. A user interacts with these commands by redefining them (usually with RenewDocumentCommand).

A `theme' is therefore a collection of Backend Commands (to configure the `core engine') and redefinitions of Placeholder Commands to provide their own unique functionality.

Title Pages

User-Facing Commands

\maketitle When called, creates theme-defined title pages using a custom format.

Syntax

\title {A title}
\subtitle {The subtitle} (optional)
\cover {path/to/image} (optional)
\author {Dr. W. Riter} (optional)
\begin {document}
\maketitle
....
\end {document}

Details

Calls either \RpgDrawCover or \RpgSimpleTitle depending on the value passed to RpgUseCoverPage.

If RpgUseCoverPage has been set to true (usually by a class such as rpgbook.cls), then the image stored in \@cover (if there is one) is automatically used as a full-page background image. This is independent of the theme definition of RpgDrawCover, and occurs before that function is called -- all subsequent drawing occurs over the top of the cover image.

\cover {m}

Saves an image path to the variable \@cover, automatically used by \maketitle as the background image.

\@cover

Syntax

\cover {path/to/cover_image}

Details

If RpgUseCoverPage has been set to true, then the image at this path will be used as a full-page image in the background of the page created by maketitle.

The default value is empty (\cover \{\}).

\subtitle {m}

Saves a string to the variable \@subtitle. Themes may use this when defining their RpgDrawCover and RpgSimpleTitle.

\@subtitle Syntax

\subtitle {<string>}

Details

This command has no effect on its own (unlike cover which is automatically included in the background).

The default value is empty (\subtitle {}).

Theme Commands

\RpgUseCoverPage {m}

If true, maketitle creates a title page to populate, else the title is rendered as a heading.

Syntax

\RpgUseCoverPage {true/false}

Details

This is a Backend Command. When true, maketitle attempts to use \@cover and then calls RpgDrawCover. If false, it calls RpgSimpleTitle.

\RpgDrawCover

Executes over the top of the \@cover image to render a front cover.

{}

Details

This is a Placeholder Command, used by themes to customise the appearance of the title page which appears in rpgbook class. The default value renders a single node at the centre of the page containing \@title, \@subtitle, \@author and \@date variables in the centre. More advanced themes (such as dnd or scifi) add decorative embellishments and place the text at custom locations.

This command is executed by maketitle if \RpgUseCoverPage {true} has been set by the theme, class or directly by the user. The command is called from within an existing tikz environment with the remember, overlay options active, allowing for page coordinates (i.e. current page.north) to be used.

If a \@cover has been defined, this command is executed after the image is placed, drawing on top of it.

\RpgSimpleTitle

Renders a `header' title - a simple text-only title at the top of the page.

{}

Details

This is a Placeholder Command, used by themes to customise the appearance of the title header which appears in rpghandout class. The default value places the title, subtitle and author at the top of the page. More advanced themes (such as dnd or scifi) add decorative embellishments and place the text at custom locations.

The Simple Title is configured so that, in a twocolumn document, it occupies the full page width; calling centering with the simple title therefore centers the text above both columns.

Part Pages

\part Defines a wrapper around the standard part command that allows for tikz-based custom page \part * formatting {o m}

Syntax

\part (*)[<image>]{<part-name>}

Details

There are three distinct behaviours that can be exhibited, depending on the presence or absence of the *, and the presence and value of <image>.

| Command | Behaviour |
|---|---|
| \part *{partname} | Uses original part command defined by |
| <pre>\part *[<any text="">]{partname}</any></pre> | underlying class. |
| \part [none] {partname} | |
| \part {partname} | Calls RpgDrawPartPage on a blank background. |
| \part [path/to/image]{partname} | Places the corresponding image as a full-page |
| | background, and then calls RpgDrawPartPage. |

RpgDrawPartPage (page 7) is a Theme Function, which executes a series of tikz functions to place the part title according to the theme specifications.

\RpgDrawPartPage

Uses Tikz to draw a custom part page when activated by \part (page 7).

Syntax

\RpgDrawPartPage {<part title>}

Details

This is a Placeholder Command, allowing the designed to determine where to place the part name on the page, and what embellishments accompany it. The command is called from within an existing tikz environment with the remember, overlay options active, allowing for page coordinates (i.e. current page.north) to be used.

The default part command allows a user to specify a background image for their part page -- it is not necessary to provide one within the drawing command.

Dice Commands

Dice are a mainstay of RPGs, and so it is important to have a standard way to report and simplify their expressions. We provide an interface for a standard `dice + modifier' expression.

\RpgDice
{m}

Evaluates expressions of the form $ndx \pm m$, and outputs using a theme-dependent layout.

Syntax

\RpgDice {<dice-expression>}

Details

Uses regular expressions to extract and simplify the dice-expression, which must follow the following format:

| Dice format | |
|---|---|
| 1. It must contain either `d' or `D' (the `dice symbol') | either the dice count (if present) or the dice symbol |
| 2. The dice symbol must be immediately followed by a single number (the `dice size') | 5. The dice size must be followed by either a `+', '-', or the end of the expression. |
| 3. The dice symbol may optionally be prefixed by a single number (the `dice count')4. The first (non-whitespace) character must be | 6. After this, any number of standard numeric expressions may follow. This expression will be evaluated into a single `modifier'. |

The dice ignores any whitespace before the beginning of the expression, and arbitrary whitespace within the `modifier' part of the expression.

| Example | Output |
|---|--------------------|
| \RpgDice { 1d6-2} | 1d6-2 |
| \RpgDice {2D6 + 3*2^2} | 2d6+12 |
| \RpgDice {1d16} | 1d16 |
| \RpgDice {d8-3} | d8-3 |
| \RpgDice {2*1d6}, \RpgDice {1 d6}, \RpgDice {3d 6 +3} | (Fails to compile) |

RpgDice is neat, but not necessarily impressive by itself. The true power of the expression is that it calls RpgDiceFormat to perform the output formatting (after performing the regular expression parsing), allowing designers to customise their dice formatting.

RpgDice is loaded in both layout and non-layout calls.

\RpgDiceFormat
{m m m}

Prints the values computed by RpgDice

Syntax

\RpgDiceFormat {<dice-count>}{<dice-size>}{<added bonus>}

Details

This is a Placeholder Command, used by theme designers to determine how RpgDice is rendered. The default option is: $\RpgDiceFormat \{m m m\} \{ \#1d\#2 \#3 \}$, such that $\RpgDice\{ndx + a + b\}$ gives ``ndx + c'', where c is the numerical value of a+b, with an additional check to see if #3 is equal to 0, in which case it is not printed (so as not to `1d6 + 0').

The dnd implementation performs a more advanced operation, computing the average value of the roll, and formatting that first, to replicate the format used by monster stat blocks.

| <pre>Example (with \RpgSetTheme {dnd})</pre> | Output |
|--|-------------|
| \RpgDice {1d6-2} | 1 (1d6-2) |
| \RpgDice {2D6 + 3*2^2} | 19 (2d6+12) |
| \RpgDice {1d12} | 6 (1d12) |
| \RpgDice {d83-3} | 39 (d83-3) |

Theme Commands

\RpgLayoutOnly

{m}

Executes the contents of the command if layout mode is active.

Syntax

\RpgLayoutOnly {<content-to-execute>}

Details

If the internal value \l__rpg_layout_bool is True, then content-to-execute is run, otherwise it is ignored.

This command is primarily used by theme developers and document class files to conditionally load or activate modules based on whether the package was loaded via a document class (layout mode active) or directly via \usepackage {rpgtex}.

\RpgSetFont

See page 21

\RpgSetPaper

Sets a background image to be used as the `paper' image.

Syntax

\RpgSetPaper {path/to/image}

Details

If layout mode is active, then this configures rpgtex to use the image as the `background image' of every page with fancy, plain or clear pagestyle. This allows for custom `paper textures' to be loaded in in the background.

The pagestyle clear is equal to empty, with the exception of the page texture.

\RpgSetTheme

Activates a chosen theme.

{m}

Syntax

\RpgSetTheme {<theme-name>}

Details

Searches for the file <theme-path>/<theme-name>.cfg, and inputs it. If this is a properly configured theme file, then it activates the chosen theme given the current global parameters. If the file does not exist, throws an error.

If \l__rpg_layout_bool is True, the command automatically inserts \clearpage, as required to ensure the old headers are not overwritten by the new theme.

<theme-path> is modified via RpgSetThemePath.

\RpgSetThemeColor

Sets the themecolor, and simultaneously updates the co-varying colors (page 20).

{m}

Syntax

\RpgSetThemeColor {color-name}

Details

If color-name specifies a valid color, then the value of themecolor is updated, as well as a number of other colors (tipcolor, sidebarcolor and tablecolor) which are set to be equal to the themecolor by default.

Of the rpg-provided colors, only narrationcolor is unaffected by this command.

 $\verb|\RpgSetThemePath|$

Changes the value of the theme path searched for by RpgSetTheme

{m}

Syntax

\RpgSetTheme {<path-name>}

Details

Updates an internal variable to be equal to the input value; does not check if the theme path is valid or not. Useful if you wish to create a new theme outside of the rpgtex file structure.

Utility Commands

\RpgOrdinal

Converts a numeric value to the corresponding ordinal.

{o m}

Syntax

\RpgOrdinal [<command>]{<count>}

Details

The command outputs the count followed by the english abbreviations for the corresponding ordinal. The optional command argument is inserted between the numeral and the suffix, allowing for the customisation of appearances.

| Example | Output |
|---|---------------------------------------|
| \RpgOrdinal {1} | 1st |
| \RpgOrdinal {2} | 2nd |
| \RpgOrdinal {13} | 13th |
| \RpgOrdinal [\textsuperscript]{7} | $7^{ m th}$ |
| \RpgOrdinal [\textbf]{133} | 133 rd |
| \RpgOrdinal [<arbitrary text="">]{133}</arbitrary> | 133 <arbitrary text="">rd</arbitrary> |

Note that due to a lack of brace-capturing, it is not possible to chain multiple commands..

\RpgPage
{0{t} m}

Outputs the current page reference for a label, with an option to enclose it in specific brackets or parentheses.

Syntax

\RpgPage [t/p/b/c]{<label-reference>}

Details

The optional arguments wrapping of the main reference. The options are:

- t (default) No wrapping
- **p** (parentheses)
- **b** [square brackets]
- c {curly braces}

An invalid input resolves to ?page~\pageref {<ref}?.

| Example | Output |
|---|-----------|
| \RpgPage {example:current page} | page 10 |
| <pre>\RpgPage [p]{example:current page}</pre> | (page 10) |
| <pre>\RpgPage [b]{example:current page}</pre> | [page 10] |
| <pre>\RpgPage [c]{example:current page}</pre> | {page 10} |
| \RpgPage [(error)]{example:current page} | ?page 10? |

$\verb|\RpgPlural|$

Generates grammatically correct plural forms of a word based on a given count.

{omm}

Syntax

\RpgPlural [<custom-plural>]{count}{<text>}

Details

The command outputs the count followed by the value of <text>. For a count of 1, the command then finishes. For any other count, it appends an ``s'', pluralizing the text.

The optional argument [<custom-plural>] overrides the default logic, allowing for irregular plurals.

| Example | Output |
|--------------------------------------|---------------|
| \RpgPlural {1}{hat} | 1 hat |
| \RpgPlural {2}{hat} | 2 hats |
| \RpgPlural [octopodes]{1}{octopus} | 1 octopus |
| \RpgPlural [octopodes]{359}{octopus} | 359 octopodes |

Chapter 3: Environments

Rpg Boxes

rpgtex defines three `colorbox' environments, which inherit from tcolorbox .

RpgNarration

A tcolorbox wrapper designed for text that is read aloud to players

<o}

Syntax

Details

RpgNarration does not (by default) set a title, using only `body text', which is typeset using the RpgFontNarration font. The optional <tcbox-options> argument can be a list of all the basic tcolorbox options (see that documentation). The color argument is an alias for colback (colbacktitle is also set, but is ignored as the title is empty). Due to the order of processing, if both color and colback are set, the value of colback is used.

Themes may alter the appearance of the narration block using the tcb interface, calling \tcbset {rpgnarration /.append~style={...}} to overwrite the existing instructions.

RpgSidebar
{o m}

A decorated tcolorbox wrapper designed for information which is set outside the main text.

Syntax

Details

RpgSidebar requires a title (using RpgFontSidebarTitle) as well as the body text (RpgFontSidebarBody). RpgSidebar is typically more highly decorated than RpgTip, and does not have the breakable flag set. It is usually best to use one of the `float' options. The optional <tcbox-options> argument can be a list of all the basic tcolorbox options (see that documentation). The color=x argument is equivalent to calling both colback=x and colbacktitle=x. Due to the order of processing, if both color and colback are set, the value of colback is used.

Themes may alter the appearance of the sidebar using the tcb interface, calling \tcbset {rpgsidebar /.append~style={...}} to overwrite the existing instructions.

RpgTip {o m}

A simple tcolorbox wrapper designed for information which is set outside the main text.

Syntax

Details

RpgTip is similar to RpgSidebar, requiring a title (RpgFontTipTitle) in addition to the body text (RpgFontTipBody). However, it is generally simpler, enabling it to safely break over page boundaries. The optional <tcbox-options> argument can be a list of all the basic tcolorbox options (see that documentation). The color=x argument is equivalent to calling both colback=x and colbacktitle=x. Due to the order of processing, if both color and colback are set, the value of colback is used.

Themes may alter the appearance of the narration block using the tcb interface, calling \tcbset {rpgnarration /.append~style={...}} to overwrite the existing instructions.

Which Colorbox To Use?

The choice between RpgSidebar and RpgTip is somewhat arbitrary -- although they have a mechanical difference by default (one being breakable, the other not) -- this can be overridden by themes. Instead, the intention is that they serve slightly different purposes:

RpgSidebar is used for `important information' -- key rules or summaries which readers *should* pay attention to.

RpgTip is for `helpful additions' -- tips, tricks and trivia that are not necessary, but which might be useful, and are too big to fit into a footnote or parenthetical.

Colorbox Examples

\begin{RpgNarration}[color=blue!30!white]
This is text that you would read out loud to
 players, describing a scene.
\end{RpgNarration}
\begin{RpgSidebar}{A Sidebar}
This is an important block of text, that you
 should pay attention to.
\end{RpgSidebar}
\begin{RpgTip}{A Tip}

This is some helpful - but not vital - text.

This is text that you would read out loud to players, describing a scene.

A Sidebar

This is an important block of text, that you should pay attention to.

A Tip

This is some helpful - but not vital - text.

RpgMap

\end{RpgTip}

The RpgMap environment makes it easy to create nested blocks, useful when needing to enumerate the contents of a map. The RpgMap environment uses a stacked counter system and dynamic labelling.

```
\begin{RpgMap}[
       header-offset=1,%start at subsection
       title={Example Map}
   ]
   \RpgArea{The Spooky Mansion}
       There are things here
   \begin{RpgMap}[
       title={ignored-as-nested}
       \RpgArea{Entrance Hall}
          Where you go to enter
       \RpgArea{Kitchen}
           Yum, food
   \end{RpgMap}
   \begin{RpgNestedArea}[][header-offset=2]
       {The Creepy Grounds}
       \RpgArea{The gardens}
          Note that this is a paragraph, not a
              subsection
        \begin{RpgNestedArea}{The stables}
          Horses live(d) here.
  \RpgArea{Shire horse}
   A very big boi
  \RpgArea{Shetland pony}
   And a tiny one too!
  \end{RpgNestedArea}
   \end{RpgNestedArea}
   \RpgArea{The Graveyard}
       The additional offset-didn't persist;
           we're back to subsections again, and
           the next element will be a
           subsubsection.
 \begin{RpgMap}[
  blank-prefix={Tomb~}
        ]
  \RpgArea{}
   This is an unnamed area - it gets given a
       slightly different name
  \RpgArea[tomb-ref]{}
   I might want to refer to this later, even
       though it is unnamed.
 \end{RpgMap}
\end{RpgMap}
```

Example Map

1: The Spooky Mansion

There are things here

1a: Entrance Hall Where you go to enter

1b: Kitchen Yum, food

2: The Creepy Grounds

2a: The gardens. Note that this is a paragraph, not a subsection

2b: The stables. Horses live(d) here. 2b-i: Shire horse. A very big boi 2b-ii: Shetland pony. And a tiny one too!

3: The Graveyard

The additional offset-didn't persist; we're back to subsections again, and the next element will be a subsubsection.

Tomb 3a

This is an unnamed area - it gets given a slightly different name

Tomb 3b

I might want to refer to this later, even though it is unnamed.

RpgMap RpgMap*

{o}

Begins a dynamic-stacked environment for generating headed and labelled lists using the RpgArea object to provide entries. The starred version of the command is identical in function, but calls \section * instead of \section (and so on.), suppressing the map elements from the table of

Syntax

contents.

\begin {RpgMap}[<opts>]
<contents>
\end {RpgMap}

Details

RpgMap uses the counter RpgAreaDepth to track how many Maps have been nested. A higher value of this counter results in `smaller' headings being used, beginning with \section and progressing to \subparagraph.

The permitted options are:

| Option | Effects |
|---------------|--|
| header-offset | An offset added to RpgAreaDepth when determing the heading size to be used (an |
| | offset of 0 uses section for the top level map entires, an offset of 1 uses subsection , and so on). |
| title | If non-empty, places the contents in a section one size larger than |
| | RpgAreaDepth+header-offset (using chapter for the largest possible size). The |
| | title is only rendered at the top-level of the map (if RpgAreaDepth=1), otherwise it |
| | is ignored. Default value is blank. |
| prefix | A string which is automatically prefixed to the 'number string' of named RpgArea |
| | entries in the map. Default is blank. |
| blank-prefix | A string which is automatically prefixed to the `number string' of unnamed (blank) |
| | RpgArea entries in the map. Default is ``Area~'' |
| ref-prefix | A string prefixed to all labels created by RpgArea, allowing disambiguation of |
| | references. Default is ``Map:" |

The variables set by options are persistent throughout the nesting - setting ref-prefix in one map will mean the same value persists in all encapsulated maps unless manually overridden. Changes do *not* persist once the nesting is finished.

\RpgArea
{o m}

Creates a formatted entry within the RpgMap environment. The appearance of the title depends on the map-depth and the current header-offset.

Syntax

\RpgArea [<manual-label>]{<area-name>}

Details

Creates a `header' depending on the value of RpgCounter + headeroffset:

- 1. section
- 2. subsection
- 3. subsubsection
- 4. paragraph

If outside these values, uses subparagraph. The name of the section is preceded by the `map counter', which is equal to the index within the current map, appended to the `map counter' of any parent maps. The formatting function RpgMapLevelName enables hierarchical labelling, such that the third area inside the second map of the first map would be given the counter value `1b-iii'.

If the manual label is set, this is used as the label for this area; otherwise the automatic labelling is used (see below).

RpgNestedArea
{o o m}

A wrapper for calling RpgArea and then immediately RpgMap, creating nested map areas in a single call.

Syntax

Details

```
This syntax is identical to calling:

\RpgArea [area-label]{<area name>}
\begin {RpgMap}[<nested-opts>]

(...)
\end {RpgMap}
\end {RpgNestedArea}
```

Note that since the RpgMap environment is invoked after the RpgArea is created, the options passed to <nested-opts> do not apply to the parent Area, which uses the Map options of its own parent.

Map Labelling & Referencing

Each RpgArea with a non-empty name automatically labels itself using the syntax

\label{<ref-prefix><area-name>}. If a manual label was passed to the RpgArea, this is used instead (without the prefix), even if the RpgArea was not named. This is designed to provide disambiguation, as no automatic checks are performed for name collisions.

It is then possible to call \ref on this label¹ and \pageref or \RpgPage (page 10). However, we provide a more powerful referencing interface:

\RpgMapRef
\RpgMapRef *
{m}

Returns the full name of the referenced area, including the map counter. The starred version returns only the map counter.

Syntax

\RpgMapRef {<label-name>}

Details

The provided text is fully integrated with hyerref, and so they enable click-jumping to the referenced map area.

Using the example map provided above:

| Example | Output |
|--|--------------------|
| <pre>\RpgMapRef {Map:Shire horse}</pre> | 2b-i (Shire horse) |
| <pre>\RpgMapRef *{Map:Shire horse}</pre> | 2b-i |
| <pre>\RpgMapRef *{tomb-ref}</pre> | $2\mathrm{b}$ |

¹Though it won't give you anything interesting -- the returned value will be the cumulative number of RpgAreas in the document at that point

\RpgMapRefPage \RpgMapRefPage * Appends the page number of the referenced map area to a RpgMapRef(*) command

Syntax

\RpgMapRefPage {<label-name>}

Details

Using the example map provided above:

| Example | Output |
|---------------------------------------|-----------------------------|
| \RpgMapRefPage {Map:Shire horse} | 2b-i (Shire horse, page 14) |
| \RpgMapRefPage *{Map:Shire horse} | 2b-i (page 14) |
| <pre>\RpgMapRefPage *{tomb-ref}</pre> | 2b (page 17) |

\RpgShowMapRefs

If called, all subsequent RpgAreas will print out a sub-heading listing their macro name.

Details

It is not unheard of for a writer to lose track of the labelling name conventions - especially those which are autogenerated. This provides a useful debugging tool for those who don't want to go digging into the aux files.

```
\begin{RpgMap}[
       header-offset=1, %start at subsection
       title={Example Map}
   ]
%%print out the labels
\RpgShowMapRefs{}
\RpgArea{The Spooky Mansion}
       (\dots)%(skip for example!)
       \RpgArea{The Graveyard}
           (\dots)%(skip for example!)
           \begin{RpgMap}[
              blank-prefix={Tomb~}
              \RpgArea{}
                  Note that this one is
                      unlabelled - it has no
                      name, and no manual label,
                      so no automatic labelling
                      occurred.
              \RpgArea[tomb-ref]{}
                  (\dots)%(skip for example!)
           \end{RpgMap}
\end{RpgMap}
```

Example Map

1: The Spooky Mansion

(labelled as `Map:The Spooky Mansion')
(...)

2: The Graveyard

(labelled as `Map:The Graveyard') (...)

Tomb 2a

Note that this one is unlabelled - it has no name, and no manual label, so no automatic labelling occurred.

Tomb 2b

(labelled as `tomb-ref')
(...)

RpgTable

RpgTable Begins an environment for creating visually appealing and consistent tables.

Syntax

{o m}

```
\begin {RpgTable}[<options>]{<column-specifications}
  <table-contents>
\end {RpgTable}
```

Details

RpgTable is a wrapper for the tabularx (or xltabular -- see breakable) environment, and so accepts the standard set of column specifications:{c,l,r,pwidth,,...} and the extended set (i.e. X). It therefore acts almost identically to the standard tabular environment with a few stylistic differences.

Stylistic Changes

The RpgTable environment makes the following changes:

- Title. If the title option is set, a title-heading is rendered above the tablular in the RpgFontTableTitle font.
- 2. **Auto-headings.** The first row of the tabular environment is automatically rendered in the RpgFontTableHeader, allowing for trivial header labels.
- 3. Font Integration. The main body of the table is rendered in RpgFontTableBody font.
- 4. **Auto-colouring.** The rows alternate between being transparent and being set to the tablecolor variable (page 20). This is powered by rowcolors.

Optional Arguments

width=<dimexpr> Fixes the width of the tabular environment to the value of this argument.

Default value is the current \linewidth.

color=<color-name> If set, uses this value instead of tablecolor for the alternating coloration.

title=<text> Sets the text to be rendered as the title of the table.

breakable If flag is present, renders using xltabular, enabling the table to break over pages. only available in 1-column mode (a fundamental limitation of xltabular).

noheader If flag is present, suppresses the autoformatting of the title. The first row is instead rendered in the body formatting.

RpgTable Example

This is the standard usage of the table, showing automatic formatting of the header rows and the word-wrapping abilities of the X-column:

```
\begin{RpgTable} [width=0.75\linewidth,
                                                         Header 1
                                                                     Header 2
    color=green!30!white]{1X}
                                                        Text
                                                                     Some text which fills up the
   Header 1 & Header 2
                                                                     space to 75% of the line width
    11
                                                                     then breaks
                                                         Alternating
                                                                     This row is transparent
    Text & Some text which fills up the space to
                                                                     but this one is the colour we
                                                         Colour
        75\% of the line width then breaks
                                                                     set in the header
//
Alternating & This row is transparent
Colour & but this one is the colour we set in
```

This example adds a title, but suppresses the header formatting:

the header
\end{RpgTable}

\begin{RpgTable}[title={Test
 Table},noheader]{X1X}
 Plain & Header & Text
 \\
 The middle column & is & small, but the first
 and third are big!
\end{RpgTable}

Test Table

| Plain | Header | Text |
|-------------------|--------|---|
| The middle column | is | small, but the first and third are big! |

Chapter 4: Variables

rpgtex defines many dozens to hundreds of variables, most with the (expl3) syntax \l__rpg_[x]. Most of these are used in the internal functioning of the macros, however a number of them are useful for a designer to understand.

Colo(u)rs

rpgtex by default defines a number of colors¹ which are used for different elements:

themecolor A `basic color' which is (by default) equal to the following three colors:

- 1. sidebarcolor The background color of the RpgSidebar environment
- 2. tablecolor The background color of every other row in an RpgTable
- 3. tipcolor The background color of the RpgTip environment

narrationcolor The background color of the RpgTip environment

contourinnercolor The default color of the inner text within a RpgContour command

contouroutercolor The default color of the external contour drawn around text within a RpgContour command.

Calling \RpgSetThemeColor (page 9) updates the value of themecolor, as well as the three `co-varying' colors (i.e. everything except narrationcolor). Other colors are modified simply using the xcolors interface:

\colorlet{narrationcolor}{html}{FFFFF}

Command Line Interface

By default, LATEX does not have a `command line interface' which allows a user to modify the document from within the command line: changes to the document have to be placed inside the file, and then compiled. However, we found that -- particularly with the *print* option (which suppresses background images on the paper, reducing ink requirements for printing), it was convenient to be able to compile the same document in either `normal' mode, or `print mode', without modifying the text.

To this end, we have provided a method for pseudo-`command line variables' to be inserted into the RpgOptions module. To do this, we exploit the fact that TeX can read documents from an input stream, not just files.

\RpgCMD

Holds key-value pairs to be inserted into RptOptions after the standard parsing is run, ideal for command line modification.

Syntax

xelatex "\def \RpgCMD {<rpg-options>} \input {<document}"</pre>

Details

This will compile the <document>, with the contents of RpgCMD parsed as if they had been placed into \documentclass [<rpg-options>]{rpgclass} or when invoking the package: \usepackage [rpg-options]{rpgtex}.

Values passed to RpgCMD will override values passed to the package the standard way.

The rpgtex compiler which we have provided (page 4) performs this insertion by default for several predefined variables:

rpgtex document.tex -p (alias for xelatex "\def\RpgCMD{bg=print} \input document.tex")

Thereby allowing the user to switch between print and full mode with a compiler switch.

¹Yes, I hate myself, but we're going with the code-based spelling.

Chapter 5: Fonts

rpgtex allows for a high degree of customisation of the fonts and typefaces used for the elements within a document. The key interface for the designer is the \RpgSetFont command, which accepts a wide variety of key-value inputs, detailed below.

Font Interface

\RpgSetFont Saves new font values and styles to the internal RpgFont[X] variables, which are then available for themes to use.

Syntax

\RpgSetFont {<key-value-pairs>}

Details

Note that this interface **does not automatically change all fonts**. The SetFont-interface saves values to internal variables which populate the corresponding RpgFont[X] macros. It does not invoke fontspec and does not automatically assign fonts to the designated elements. *However*, a theme designer may then use the RpgFont[X] macros within their commands, thereby assigning fonts to the relevant elements. In this case (or if a user manually invokes a font), this command will act to update the font.

To summarise: if a writer uses a theme which does not make use of the RpgFontSection font, then calling RpgSetFont{section-style=\it} will have no effect. They would need to set \titleformat {\section} { \RpgFontSection }{}} (titlesec is loaded by default), in which case calling RpgSetFont would change the font for all subsequent calls to \section.

The exception to this is the main-body font, which is achieved by updating \normalfont.

Defining Fonts

The arguments passed to the `style' can be any form of latex formatting (i.e. \slshape\scriptsize\bfseries, and so on). To update the typeface, however, you must define a font family:

```
\newfontfamily{\myfont}{arial}
\RpgSetFont{main-body-family=\myfont}
```

For custom typefaces - or where you wish to `mix and match' typefaces in different modes, you can use the full power of the fontspec package :

```
\newfontfamily{\myfont}{custom-font}[
Path=/path/to/local/font.otf,
ItalicFont=*-Bold,
BoldFont=Arial,
]
\RpgSetFont{main-body-family=\myfont}
```

This would define a font which used a local .otf file for the main font, but the bold typeface when \textit{} were called, and used arial as the mock `boldface'.

Font Elements

rpgtex provides 28 Font Commands, each comprised of a family and a style.

Family vs Style

When defining the Font for an element, the interface allows one to specify both a family and a style. Formally speaking, family defines the typeface used by the associated element, whilst the style determines the options passed to that typeface (bold, italics, size etc.).

The distinction is largely irrelevant, as the construction of the final font object is often simply the concatenation of the two:

```
\def\RpgFontX
{
   \l__rpg_x_family \l__rpg_x_style
}
```

The separate definitions is therefore largely a matter of clarity and readability. It is generally safe to place commands that should be in family into the style key, as long as it doesn't conflict with other styling.

Font vs Implementation

We generally encourage designers to place all text visualisation within the relevant Font rather than elsewhere -- if all subsections are going to be in red, then define subsection-style=\color{red}, rather than setting it within the titlesec specification (\titleformat {\subsection}{\RpgFontSubsection\color{red}}...).

There will naturally be some exceptions to this: we found that the RpgTitleFont colour we wanted within RpgDrawCover diverged so strongly from that in RpgSimpleTitle that it made sense to define a special colour when rendering over a background image.

These fonts are assigned to typesetting elements by the theme designer -- what we have intended to be the section font may, within a different theme, be used for a different element. This document outlines how we have used these elements in the provided themes, though this is not prescriptive.

| Font Element \RpgFontBody | Values main-body-family main-body-style | Usage The main body text of the document, which RpgSetFont sets equal to \normalfont. Updating the fontsize here (i.e. using \large) can cause some counterintuitive results since it will only update the body text, and not adjust the other elements relatively. Adjusting the font size for the entire document should be done in the documentclass declaration. |
|---------------------------|---|--|
| \RpgFontTitle | title-family title-style | The font used for \@title when \maketitle is called. |
| \RpgFontSubtitle | subtitle-family subtitle-style | The font used for the value of \@subtitle (page 6), \@author and \@date when \maketitle is called. |
| \RpgFontPart | part-family part-style | The font used when \part is called. |
| \RpgFontTocPart | toc-part-family toc-part-style | The font used for a part in the table of contents |
| \RpgFontChapter | chapter-family chapter-style | The font used when \chapter is called. |

| \RpgFontTocChapter | toc-chapter-family toc-chapter-style | The font used for a chapter in the table of contents |
|-----------------------|---|---|
| \RpgFontSection | section-family section-style | The font used when \section is called. |
| \RpgFontTocSection | toc-section-family toc-section-style | The font used for a section in the table of contents |
| \RpgFontSubsection | subsection-family subsection-style | The font used when \subsection is called. |
| \RpgFontSubsubsection | subsubsection-family subsubsection-style | The font used when \subsubsection is called. |
| \RpgFontParagraph | paragraph-family paragraph-style | The font used when \paragraph is called. |
| \RpgFontSubparagraph | subparagraph-family subparagraph-style | The font used when \subparagraph is called. |
| \RpgFontTableTitle | table-title-family table-title-style | The font used for <text> if \RpgTable (page 18) is called with the title=<text> option.</text></text> |
| \RpgFontTableHeader | table-header-family table-header-style | The font used for the first row of a \RpgTable. |
| \RpgFontTableBody | table-body-family table-body-style | The font used for the text within an \RpgTable after the first row. |
| \RpgFontTipTitle | tip-title-family tip-title-style | The font used for the title of an RpgTip environment (page 13). |
| \RpgFontTipBody | tip-body-family tip-body-style | The font used for the body of an RpgTip environment (page 13). |
| \RpgFontSidebarTitle | siderbar-title-family siderbar-title-style | The font used for the title of an RpgSidebar environment (page 12). |

| \RpgFontSidebarBody | sidebar-body-family sidebar-body-style | The font used for the body of an RpgSidebar environment (page 12). |
|-------------------------|---|--|
| \RpgFontNarration | narration-family narration-style | The font used for all (since they have no title) of an RpgNarration environment (page 12). |
| \RpgStatBlockTitle | stat-block-title-family stat-block-title-style | The font used for the title of a `statblock' environment - in the dnd theme this corresponds to the monster environment. |
| \RpgStatBlockSection | stat-block-section-family stat-block-section-style | The font used for sections within a `statblock' environment (should one be defined). |
| \RpgStatBlockBody | stat-block-body-family stat-block-body-style | The font used for text within a `statblock' environment (should one be defined). |
| \RpgFontFooter | footer-family footer-style | The font used for the footer text |
| \RpgFontPageNumber | page-number-family page-number-style | The font used for the page number within the footer |
| \RpgFontDropCap | drop-cap-family drop-cap-style | The font used for the large drop-cap letter created by a RpgDropCap (see below). |
| \RpgFontDropCapInternal | <pre>drop-cap-internal-family drop-cap-internal-style</pre> | The font used for the first line of text following the drop cap. |

Decorative Text

In addition to the fundamental typeface alterations rpgtex includes a number of commands to turn text into decorative elements.

\RpgContour {O{} m}

Renders text with a **contour effect**. The color and style are set through key/value pairs.

Syntax

\RpgContour [inner=<color>,outer=<color>,style=<code>]{<text>}

Details

The style command is applied to the text, whilst the optional inner and outer commands set the base text colour and the external contour color respectively. If the colors are not set, the default values are the contourinnercolor and contouroutercolor values defined by the theme (page 20). The contour does not automatically linebreak, but can be controlled manually with a \newline command (not \\ or \par)

| Example | Output |
|--|--------------------------|
| \RpgContour [inner=red,outer=black]{example} | example |
| \RpgContour [style=\Huge \it]{example} | example |
| \RpgContour []{multi\newline line\newline example} | multi line example |

Quirks

Due to the tokenisation required for the line-splitting and space-preservation, the text inside the contour can exhibit some quirks if stylisation is applied within the <text> argument.

Unbraced commands (such as \it or \footnotesize) will only apply to the first word in the text. Braced commands can work, but will cause a compilation error if a \newline is included.

| \RpgContour []{\Huge \it only first word changes} | only first word changes |
|---|-------------------------|
| <pre>\RpgContour []{\textit {all words change}}</pre> | all words change |
| \RpgContour []{\textit {all word \newline change}} | (fails to compile) |

For robustness, we therefore recommend that all stylisation be applied through the style command, which is applied to each tokenised element, and therefore guaranteed to work as expected.

\RpgDropCap
{0{}, m m}

Creates a decorative `drop cap' letter to begin a new chapter with, and modifies the following text.

Syntax

\RpgDropCap [<lettrine-args>]{<letter>}{<text>}

Details

This command uses the lettrine package and the magaz package to create an easy-to-use environment in which the first letter is enlarged (and stylised in the RpgFontDropCap font). The second argument formats *up to the first line* of text in the RpgFontDropCapInternal font (usually a simple scshape command).

This command can be a little fragile -- lettrine does not usually play well with the `FirstLine' command provided by magaz -- and we've used a few workarounds to allow both linebreaking, and the formatting of only the first line of text. There may need to be a small amount of manual calibration, but it is better than the default.

Example Output \RpgDropCap {A}{n example: \blindtext } N EXAMPLE: LOREM IPSUM DOLOR SIT AMET, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan

semper.

PART II rpgtex Classes

Chapter 6: rpgbook Class

Chapter 7: rpghandout Class

Chapter 8: rpgcard Class

PART III Themes

Chapter 9: default Theme

CHAPTER 10: DND THEME

Chapter 11: scifi Theme

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