Deplate 0.8.3 – convert wiki-like markup to latex, docbook, html, or "html-slides"

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This manual was created with deplate version 0.8.3.

1 Introduction

deplate is a ruby based tool for converting documents written in wiki-like markup to LaTeX, HTML, "HTML slides", or docbook. It supports page templates, embedded LaTeX code, footnotes, citations, bibliographies, automatic generation of an index, table of contents etc. It can be used to create web pages and (via LaTeX or Docbook) high-quality printouts from the same source.

Although originally created as a LaTeX (or word-processor) replacement for "everyday use", deplate probably isn't suited for highly technical documents or documents that require sophisticated graphical layout. For other purposes it should work fine. As the html output filter provides menus, templates, indexes, and the like, within some limits, it could also qualify as offline CMS for maintaining small websites. If you want to do something bigger you might want to use a different programm though.

deplate aims to be modular and easily extensible. It is the accompanying converter for the Vim viki plugin. In the family of wiki engines, the "native" deplate markup originated from the emacs-wiki.

deplate reads:

- deplate markup (viki vim plugin) in several variants: full, restricted, template (this markup is explained in Markup (p. 41) and the following chapters)
- ruby's rdoc

deplate writes:

- HTML: single page, web site (chunked), web-based presentation (chunked & condensed), as PHP page
- LaTeX (which can be converted to dvi, postscript, pdf ...)
- Docbook (which can be converted to html, rtf, pdf, xml-fo, man ...)
- Really plain text

A note on code quality: This is a personal/private pet project that started off as a miniscule script to quickly convert emacs-wiki pages without emacs. This program is the result of a long series of early morning pre-coffee plumbing and patch-work. It works well for me tough and has proven quite useful.

In case deplate doesn't meet your needs, there are plenty of similar tools you might want to give a try.

For converting mostly plain text to HTML, LaTeX etc.:

- aft
- PlainDoc (pd2tex)
- reStructuredText
- \bullet sisu
- txt2tags
- yodl

With respect to website generation, you might also be interested in these tools:

- webgen
- rote

The authors of zoem (Stijn van Dongen and Joost van Baal) compiled a comprehensive list of similar efforts.

1.1 Goals

- 1. Use it as a personal wiki (via the Vim viki plugin)
- 2. Be able to publish to many other formats but do it in a way so that the output looks nice and can be edited and shared with other people
- 3. Use a syntax that is convenient to use with all sorts of non-specialized text editors (the most basic markup should be wiki-style; more complex things should be done using a more structured approach or by embedding ruby code)
- 4. Support all the tags needed to write not-too-technical documents (i.e., headings, footnotes, citations, indices, page headers/footers, tables, figures, verbatim text, basic text styles etc.)
- 5. Conditionally allow the dynamic/on-the-fly generation of content (e.g., statistical analyses via R, concept maps via dot ...)
- 6. Use other programs for tasks they perform well
- 7. Make it customizable

2 Getting deplate

2.1 Requirements

Ruby interpreter deplate was tested with Ruby/Cygwin 1.8.7 under WinXP; the win32 binary was generated with exerb and doesn't require neither a ruby interpreter nor the deplate sources to be installed

Optional (you only need these if you want deplate to do certain things, i.e. use certain modules):

LaTeX, dvips, Ghostscript For support of inline LaTeX

dvipng For rendering LaTeX snippets as png

kpsewhich (most likely part of your LaTeX distribution) For searching bibliography files

ImageMagick The LaTeX-formatter uses the identify tool to guess image dimensions if you don't provide them; see also 7.8

hpricot HPricot is required by code-gvim71 (p. 33) module.

Jave For converting images to ASCII representations to be used in plain text output.

dot, neato For on-the-fly generation of figures and plots

R For on-the-fly generation of plots and tables

ASCIIMathML.is For use with the html-asciimath (p. 39) module

jsMath.js For use with the html-jsmath (p. 40) module

Term::ANSIColor For colored log output (when using the --color command line option)

mathml by KURODA Hiraku For mathml (p. 40) in conjunction with the xhtml10t (p. 28) output formatter.

highlight For syntax highlighting (see 8.2.4 and 10.2)

GVIM For syntax highlighting (see 8.2.3 and 10.2) and maybe also for editing @

Under MS Windows, the Cygwin environment comes with a convenient installer and provides ruby, latex, divps, gs, and ImageMagick.

2.2 Download

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

Download the most current version from the sourceforge project site: http://sourceforge.net/projects/deplate/

The win32 binary was created using exerb and should work without ruby being installed. Be aware that some modules don't work with the win32 binary version.

If you have ruby installed, you might want to use the rubygem version.

2.3 Support

If you have any questions, please post them to the support forum at: http://sourceforge.net/forum/forum.php?forum_id=371484

3 Installation

3.1 Gem

This is the recommended way to install deplate. Ruby and rubygems have to be installed. While connected to the internet:

gem install deplategem

Offline after having downloaded the gem package:

gem install deplate-VERSION.gem

3.2 Win32

Copy the win32 executable to a directory included in the PATH variable.

3.3 ZIP Archive

On the command line, go to the root directory of the deplate sources, where setup.rb resides.

```
cd PATHTODEPLATE
```

See which options are available.

```
ruby setup.rb --help
```

Setup the ruby library and the bash or batch script (depending on RUBY_PLATFORM). Copy the ruby files to ruby's site-lib directory, and the script to an appropriate directory in \$PATH.

```
ruby setup.rb config
ruby setup.rb setup
ruby setup.rb install
   or just:
ruby setup.rb
```

Check if the modules show up correctly. At the bottom of the help text, there is a list of available formatting backends and modules. If this list is empty, something went wrong.

```
deplate --help
```

In case something goes wrong, here are the starter scripts. As shell script

```
#!/usr/bin/env ruby
require 'deplate'
Deplate::Core.deplate
    and as batch script:

@echo off
ruby -rdeplate -e Deplate::Core.deplate -- %*
```

If you use an "older" version of MS Win & command.exe instead of cmd.exe, you might have to replace %* with %1 %2 %3 %4 %5 %6 %7 %8 %9.

In case you want to customize deplate, you should also build the api documentation.

```
rdoc -S -N lib/deplate
```

This will install the following files/directories:

- [RUBY_BIN]/deplate[.bat]
- [RUBY_SITELIB]/deplate.rb
- [RUBY_SITELIB]/deplate/...

setup.rb doesn't provide an automatic uninstall routine. In order to remove deplate from your harddisk, you can either remove these directories and files by hand or you could try the following command:

```
rm -fv 'cat InstalledFiles'
```

This requires of course that you keep the file "InstalledFiles" which is generated during installation.

3.4 Related Software

dokkit A document generator by Andrea Fazzi.

4 Usage

The command-line options:

```
Usage: deplate.rb [OPTIONS] FILE [OTHER FILES ...]
deplate is a free software with ABSOLUTELY NO WARRANTY under
the terms of the GNU General Public License version 2.
General Options:
   -a, --[no-]ask
                                     On certain actions,
   query user before overwriting files
   -A, --allow ALLOW
                                     Allow certain things:
   1, r, t, w, W, x, X, $
   -c, --config FILE
                                     Alternative user cfg
   file
        --[no-]clean
                                     Clean up temporary files
        --color
                                     Colored output
        --css NAME
                                     Copy NAME.css to the
       destination directory, if inexistent
        --copy-css NAME
                                     Copy NAME.css to the
       destination directory
   -d, --dir DIR
                                     Output directory
   -D, --define NAME=VALUE
                                     Define a document option
    -e, --[no-]each
                                     Handle each file
   separately
        --[no-]force
                                     Force output
   -f, --format FORMAT
                                     Output format (default:
   html)
        --[no-]included
                                     Output body only
   -i, --input NAME
                                     Input definition
        --list FILE
                                     A file that contains a
       list of input files
        --log FILE
                                     A file (or - for
       stdout) where to put the log
        --[no-]loop
                                     Read from stdin forever
       and ever
                                     Save metadata in this
        --metadata [NAME]
       format (default: yaml)
    -m, --module MODULE
                                     Load a module
    -o, --out FILE
                                     Output to file or
   stdout ('-')
    -p, --pattern GLOBPATTERN
                                     File name pattern
   -P, --exclude GLOBPATTERN
                                     Excluded file name
   pattern
    -r, --[no-]recurse
                                     Recurse into directories
        --reset-filecache
                                     Reset the file database
   -R, --[no-]Recurse
                                     Recurse and rebuild
   hierarchy
   -s, --skeleton NAME
                                     Make skeleton available
        --[no-]simple-names
                                     Disable simple wiki
       names
                                     Heading level for
        --split-level LEVEL
       splitting
        --suffix SUFFIX
                                     Suffix for output files
   -t, --template NAME
                                     Template to use
```

--theme THEME Theme to use --[no-]vanilla Ignore user

configuration

-x, --allow-ruby [RUBY SAFE] $\,\,$ Allow the execution of

ruby code

-X, --[no-]allow-exec Allow the execution of

helper applications --[no-]external

LaTeX Formatter:

--[no-]pdf Prepare for use with pdf(la)tex

Available input defintions:

deplate, deplate-headings, deplate-restricted, play, ${\tt rdoc}$, ${\tt template}$

Available formatters:

dbk-article, dbk-article-4.1.2, dbk-book, dbk-ref, dbk-slides, dbk-snippet, html, html-snippet, htmlsite, htmlslides, htmlwebsite, latex, latex-dramatist, latex-snippet, null, php, phpsite, plain, template, xhtml10t, xhtml11m

Available metadata formats: marshal, xml, yaml

Available modules:

anyword, babelfish, code-coderay, code-gvim, code-gvim71, code-highlight, colored-log, endnotes, entities-decode, entities-encode, guesslanguage, html-asciimath, html-deplate-button, html-headings-navbar, html-highstep, html-jsmath, html-mathml, html-obfuscate-email, html-sidebar, htmlslides-navbar-fh, iconv, imgurl, inlatex-compound, koma, lang-de, lang-en, lang-ru, lang-ru-koi8-r, lang-zh_CN, lang-zh_CN-autospace, latex-emph-table-head, latex-styles, latex-verbatim-small, linkmap, makefile, mark-external-urls, markup-1, markup-1-warn, navbar-png, noindent, numpara, particle-math, php-extra, pstoedit, recode, smart-dash, smiley, soffice, symbols-latin1, symbols-od-utf-8, symbols-plain, symbols-sgml, symbols-utf-8, symbols-xml, syntax-region-alt, utf8, validate-html, xmlrpc

Available themes:

CVS, presentation.html

Available css files:

article, deplate, doc, heading-navbar, highstep, htmldoc, layout-deplate, layout-deplate-print, play, sans-serif, serif, serif-e, serif-rel, slides, styles, tabbar, tabbar-left, tabbar-right, tabbar-right-ie, tabbar-top, text-sans-serif, text-serif

Available templates:

html-doc.html, html-left-tabbar-js.html,
html-left-tabbar.html, html-tabbar-right-pcomments.php,
html-tabbar-right-step.html, html-tabbar-right-table.html,
html-tabbar-right.html, html-tabbar-top.html,

html-tabbar.html

Other Options:

--debug [LEVEL] Show debug messages
--[no-]profile Profile execution
--[no-]quiet Be quiet

-v, --[no-]verbose Run verbosely
-h, --help Show this message
--list-modules [REGEXP] List modules matching a

pattern

--list-css [REGEXP] List css files matching

a pattern

--version Show version
--microversion Show version

Typical uses of deplate are:

- **deplate -D auxiliaryDirSuffix=_files text.txt** Convert the file to html; put auxiliary files that are created during the conversion process into a subdirectory called "text_files"
- **deplate -d DESTDIR -f htmlslides text*.txt** Convert a bunch of files to "html slides"; put the output into "DESTDIR"
- deplate -f latex -pdf -D suffix=txt text*.txt Convert a bunch of files to a single LaTeX file and prepare for pdflatex; assume that the wiki files have a "txt" extension; wiki names referring to included files are transformed to internal references
- deplate -R -p '*.txt' -D suffix=txt -o ../Wiki.tex WikiIndex.txt * Convert all files in the current directory and below to a single LaTeX file; include only files with "txt" as suffix; put
 WikiIndex.txt first
- deplate -R -e -d ../Wiki_html * Convert all files in the current directory and its subdirectories to
 html; save the output in directory Wiki_html; rebuild the directory structure of the input
 files
- deplate < INPUT > OUTPUT Work as a filter by converting the input from stdin; this doesn't actually work like a pipe though because all the input has to be read in order to generate the output
- deplate -x -X file.txt Convert a file and allow the evaluation of embedded ruby code and the execution of external applications, e.g., latex. These command switches are necessary for some language elements to work.

Notes:

-D VAR, -D VAR=VALUE You can define document variables via the command line; if no value is provided the variable is set to "1".

The option parser library, which deplate uses, doesn't deal well with spaces in command line arguments. This is why spaces have to be replaced with tildes; a tilde and backslashes have to be preceded with backslashes. Example: -D text=bla~bla\~bla sets the document variable text to "bla bla~bla". As a shell usually interpretes backslashes too, you would usually have to type -D text=bla~bla\~bla.

-e Process each file separately

-m, -module MODULE Load an add-on/module (after loading the core and the formatter); modules reside in the deplate library directory or in the user configuration directory ("~/.de-plate/mod/"); type deplate --help to see a list of available modules.

After loading the module, deplate searches for the file "~/.deplate/after/mod/NAME.rb" which will be loaded if found.

German, Chinese, and Russian localizations are provided as modules.

-p PATTERN, -P PATTERN Backslashes in the pattern must come in doubles; backslashes can be used to prevent the shell from expanding the pattern; e.g., in case you're using bash, you would usually type something like -p ''*.txt''

-theme THEME A theme is a collection of

- an ini file (THEME/theme.ini, see also 4 and 5.3)
- css files (THEME/css/...)
- templates (THEME/templates/...)
- a library (THEME/lib/...)
- a prelude (THEME/prelude.txt)
- additional resources (THEME/resources/*)

All components are optional and are stored in either one of

- ~/.deplate/themes/THEME/...
- ~/.deplate/themes/THEME/...
- /lib/ruby/.../deplate/themes/THEME/...
- -x, -allow-ruby [RUBY SAFE] Ruby's SAFE variable has 5 levels (0=no checks/default .. 4=sand-box; at present, this also sets the SAFE variable for deplate itself, which doesn't work with SAFE set to 4)
- -X, -[no-]allow-exec, -[no-]external Allow the execution of external applications, e.g., LaTeX. You won't be able to translate inline LaTeX unless you call deplate with this command line option. In order to make this permanent, see 5.1.
- -A, -allow FLAGS Flags is a list of comma separated letters which may contain:
 - all Unsafe mode; allow everything
 - I Allow the #LANG command to automatically load a module of the language's name (this would make it possible for a malicious user to load any module as deplate cannot distinguish localization modules from other modules)
 - r Check files in \$PWD/deplate.rc in some cases (e.g. check for a local config.rb); templates,
 css files, and library snippets are always searched in the deplate.rc directory too; if
 you want to allow a deplate.ini file in this directory, you have the add allow r to
 your private deplate.ini file (usually in ~/.deplate/)
 - s Load {theme}/theme.ini if any (this might be necessary for most themes to be fully functional)
 - t Unfiltered (La)TeX
 - w Enable the #Write region (directory local file names only)

- W Enable the #Write region (allow relative & absolute file names)
- x Same as -x
- X Same as -X
- . Allow sending methods to objects in the arg macro and friends.
- : Allow referencing options by prepending a name with ":" in some situations (e.g. #IF tests).

You can remove the permission to do something by prepending a minus to the flag, e.g. by setting --allow -x on the command line after having allowed x in the deplate.ini file.

Some variables change the way deplate works.

autoFileNames In multi-file output, the file name is constructed from the top heading unless explicitly defined (id, caption, shortcaption)

auxiliaryDirSuffix If defined, auxiliary files are saved in the subdirectory #{basename FILENAME}#{auxiliaryDirSuffix}. E.g., if auxiliaryDirSuffix is "_files" and the current file is "Test", then auxiliary files (images, on-the-fly generated files that are passed to external applications etc.) are saved in "Test_files".

If you are a ruby programmer, you can also use deplate as a library for formatting strings. You could use the convenience classes Deplate::Converter or DeplateString for this.

```
Example 4.1: Using the Deplate::Converter class require 'deplate/converter'
```

```
t = <<EOF
* Introduction

''deplate''is a tool for converting wiki-like markup to latex, html, or
"html-slides".
EOF

to_html = Deplate::Converter.new
puts to_html.convert_string(t)

to_latex = Deplate::Converter.new("latex")
puts to_latex.convert_string(t)

or:</pre>
```

The DeplateString is probably easier to use from within other programs like e.g. Nukumi2 (see 8.9.2).

4.1 Editor support

4.1.1 General remark

As whitespace is significant in the context of lists and the like, you should not insert tab characters in the document but replace tabs with blanks/spaces. Most editors can be tweaked to work this way.

If you absolutely want to insert tab characters or if you don't know how to keep your editor from inserting tabs, you can set the tabwidth (default: 4) variable to the tab width setting of your editor. deplate will then try to expand tab characters.

4.1.2 VIM

deplate is the accompanying converter for the Vim viki plugin, which supports all of deplate's default markup.

5 Configuration

Configuration requires some knowledge of the ruby language. If you don't already know ruby, ruby is a well designed, *fully* object-oriented interpreted language in the spirit of Smalltalk (but with a rather modern syntax) plus some features from Perl and Lisp/Scheme (e.g. continuations).

The configuration files are regular ruby files and are loaded after requiring all the libraries necessary. Theses files reside in the directory "\$HOME/.deplate/" or "\$USERPROFILE/deplate.rc/". If these directories are not found, the files are searched in \$WINDIR/deplate.rc/ or /etc/deplate.rc/. Some files are also looked for in the "datadir" (usually something like /usr/share/deplate/).

This directory may also contain custom modules or css files etc. On Win 2000/XP etc., \$USER-PROFILE is usually set to "C:\Documents and Settings\USERNAME\". See also 16 for how to add new elements, particles, macros etc.

The user configuration directory should look like this:

```
• ~/.deplate/
```

- config.rb (the general user configuration file, which is loaded last)
- deplate.ini (an alternative way to configure deplate)
- after/ (files that are loaded right after the corresponding formatter or module)
 - * fmt/
 - * input/
 - $* \mod/$
- css/ (user defined css files)
- fmt/ (user defined formatters)
- input/ (user defined input definitions)
- lib/ (user defined deplate snippets)
 - * FORMATTER/ (output-format specific deplate snippets)
- mod/ (user defined modules)
- templates/ (user defined templates)

If the user requests loading "MODULE", deplate searches for "~/.deplate/mod/MODULE.rb" first, then in ruby site-library. If it was found and loaded, the file "~/.deplate/after/mod/MODULE.rb" will be sourced, too – if available.

deplate calls the class method Deplate::Core.user_setup after processing the command line argumend. It calls the instance method Deplate#user_initialize after the new instance of the deplate converter was created and initialized, right before actually performing the conversion.

In general, configuration is done by patching ruby classes. In the following example, we

- restrict the markers for unordered lists to "#"
- define Koma-Script's article class as the default latex class

```
class Deplate::List::Itemize
    @rx = /^(([ \t]+)(#)[\t]+)(.+)$/
end

class Deplate::Formatter::LaTeX
    @@latexDocClass = "scrartcl"
end
```

Here is another example from my personal "after/fmt/latex.rb" file.

- 1. Add a usepackage statement to the preamble with optional arguments from the "suppl" variable (p. 72).
- 2. extracts information about the document's title and author and adds some user-defined commands to the document preamble but below any usepackage statements (see 14.6).

5.1 User configuration of the standard setup

deplate calls the methods Deplate::Core.user_setup(options) and Deplate::Core#user_initialize if they are defined in order to provide a possibility to hook into the standard setup procedure.

Deplate::Core.user_setup is called when starting deplate from the command line and before a instance of Deplate::Core was created. This method should be used to set values in the options structure or to permanently require one of deplate's modules.

Deplate::Core#user_initialize is called after an instance of Deplate::Core was created and should be used to set variables specific to this instance.

```
class Deplate::Core
   def self.user_setup(options)
        options.field_name = 'some value'
        require_module(options, 'NAME')
   end

  def user_initialize
        @variables['NAME'] = 'VALUE'
   end
end
```

5.2 Configuration of wiki names

Usually, any word in CamelCase (a.k.a. wiki name) is turned into a hyperlink. By default only the letters A-Z and a-z are allowed here in order to minimize possible conflicts between different encodings and different versions of ruby on different systems with different locales in effect. If this doesn't fit your needs, maybe because you happen to write in a language other than English, which is possible and maybe even likely, you might want to change this. Add something like this with the new character sets to your config.rb file:

```
class Deplate::HyperLink
    @@uc = 'A-ZÄÖÜ'
    @@lc = 'a-zäöüßáàéèíìóòçñ'
end

# the following re-compiles the regexps for wiki names
Deplate::HyperLink.setup
```

If you really don't like simple wiki names and want to disable the all together, you can put something like this into your config.rb:

```
class Deplate::Core
    def self.user_setup(options)
        options.disabled_particles << Deplate::HyperLink::Simple
    end
end</pre>
```

5.3 Configuration via deplate.ini

If you don't want to configure deplate using ruby, you can put some settings into the deplate.ini file, which usually resides in ~/.depate and/or #{PWD}/deplate.rc. Themes can also have their own ini files.

This file contains a sequence of commands. Each command must fit in one line. The following commands are allowed:

allow FLAGS Allow deplate to do certain things(see 4)

• If you use deplate only for your own files, you might want to run deplate in "unsafe" mode by adding allow all to your deplate.ini file.

```
--OPTION Additional command line option
```

```
mod NAME Load the module NAME
```

fmt NAME Set the standard formatter

```
clip NAME=VALUE Set the clip NAME (e.g., "author") to VALUE
```

wiki NAME.SUFFIX=BASEURL Define an interwiki (the .SUFFIX part is optional)

wikichars UPPERCHARS LOWERCHARS Define which characters are allowed in wiki names

app NAME=COMMANDLINE Define an external app (e.g., latex, dvips, R, dot, neato, pstoedit, identify, gs ...)

• If you get a Exec format error error, this is probably caused by a missing executable suffix. To avoid this error, redefine the app and add a .exe or similar to the name.

\$ENV=VALUE Set an environment variable

VAR=VALUE Set variable VAR to VALUE

• Alternatively, variables can contain multi-line values using the usual heredoc pattern (<<MARKER\nTEXT...\nMARKER\n) as long as the smaller characters ("<<") appear right after the equals sign. Internally, a multi-line value is processed as array.

Although this may not always work as expected, you can also set some options (as defined in 1) by prepending the name with a colon (":") or by using the option keyword:

```
option NAME. Set option NAME to false

option NAME! Set option NAME to true

option NAME?=true|false|yes|no|on|off Set option NAME to a boolean value

option NAME%=INTEGER Set option NAME to a numeric value

option NAME=VALUE Set option NAME to VALUE as string

Lines beginning with one of *%#; are considered comments.

Example 5.1: deplate.ini
```

5.4 Options

Most command line options correspond to fields in the (open) structure Deplate#options. You could thus make your choices permanent by adding something like this to your configuration file:

```
class Deplate::Core
   def self.user_setup(options)
        options.field_name = 'some value'  # ok
        options.allow_exec = true  # example
   end

def user_initialize
        @variables['NAME'] = 'VALUE'  # ok
        @options.other_field_name = 'some value'  # deprecated
   end
end
```

The variable options is meant to influence the whole setup and should contain variables that cannot be set directly by a document. variables are meant to specific to the current conversion process. While options should be set in Deplate#user_setup, variables should be defined in Deplate#user_initialize.

Here is a mostly complete table of command line options and corresponding option fields:

```
Command line option
                                Field names
-a, -[no-]ask
                                ask\_user = bool
-c, -config FILE
                               cfg = string
-[no-]clean
                                clean = bool
-css NAME
                                css = string
-d. -dir DIR
                                dir = string
-D, -define NAME=VALUE
                                variables[NAME] = VALUE
-e, -[no-]each
                                each = bool
```

```
-[no-]force
                                force = bool
-f, -format FORMAT
                                fmt = string
-i, -[no-]included
                                included = bool
-list FILE
                                list = string
-[no-]many
                                multi\_file\_output = bool
-m, -module MODULE
                                modules << string
-o, -out FILE
                                out = string
-p, -pattern GLOBPATTERN
                                file_pattern = string
-P, -exclude GLOBPATTERN
                                file_{excl_pattern} = string
-quiet
                                quiet = bool
-r, -[no-]recurse
                                recurse = bool
-[no-]pdf
                                pdftex = bool
-X, -[no-]allow-exec
                                allow\_exec = bool
-A, -allow FLAGS
                                allow = [FLAGS]
```

The command-line option "-x" or "-allow-ruby [RUBY SAFE]" currently sets the class variable <code>@@allow_ruby</code> and the global variable <code>\$SAFE</code> (if an integer is provided). --verbose sets Deplate's class variable <code>@@verbose</code>.

5.5 Templates

deplate supports two ways of page templates:

- 1. Template variables
- 2. Template files

5.5.1 Template variables (obsolete)

You can define a template in ruby by setting the following Deplate class variables:

- these variables (array of arrays of strings) can be redefined in Deplate::Core.user_setup to put some formatted output on every page/file
 - @@pre_matter_template- @@body_template- @@post_matter_template
- this variable (array of strings) can contain some deplate markup that will be prepended to every file read
 - @@deplate_template

```
@deplate_template << '#AU: My Name'
end</pre>
```

5.5.2 Template files

Via the -t or --template command-line option or by setting the template document variable (see 14.1), you can define simple text templates that will be filled in with content from your deplate file.

Since version 0.7, deplate uses a specialized formatter for handling templates. Before 0.7, this was done by search & replace. If you have pre 0.7 templates which don't work any more, you can switch back to the old template mechanism by setting the document option (p. 85) template_version to 1.

In templates, only a small number of statements are available:

Commands GET, ARG, XARG, VAR, OPT, PREMATTER, POSTMATTER, BODY, IF, ELSE, ELSEIF, ENDIF, INC/INCLUDE

Regions Foreach, Mingle, Ruby, Var

Macros get, clip, opt, arg, xarg, doc, ruby

The commands PREMATTER, POSTMATTER, BODY as well as the Mingle region are specific to templates.

PREMATTER, POSTMATTER, and BODY can be used to fill in formatted content for an explanation of deplate's document structure):

#PREMATTER The file header, the beginning of the document definition, some text that in multi-file mode should appear in every output file

#BODY The text body

#POSTMATTER Some text that in multi-file mode should appear in every output file, the end of document definition

These commands take a list of slots (named or as numbers) as arguments. The slots can be single slots or ranges. They can be positive (add selectively) or negative (add with the exception of certain content). Examples:

#PREMATTER: -doc_def add the prematter without the document type definition

#PREMATTER: doc_def mod_packages mod_head add the document type definition, and stuff added by modules

#PREMATTER: head_beg..prematter_end add everything from the head on downwards

A slot cannot be consumed twice. I.e., if you use several template commands, the latter will not insert the content that was already inserted by the previous command.

The Mingle region can be used to add some text to a specific slot in the original document. Filling in templates takes place after the document was produced. A template actually processed by deplate like normal text but with a different active rule set. Thus, if you define a slot or a

type for a region in the template file these definitions refer to the template output which usually is not quite what you want. You can use Mingle to make them refer to the original document. See html-left-tabbar-js.html in the templates subdirectory of the distribution for an example.

Curly braces in templates could cause problems because deplate maybe interpretes them as macros. If deplate mixes up your template, you should prefix these curly braces that cause problems with a backslash.

Backslashes have always to be doubled.

Example 5.2: A letter template

In this example, we use get for the author's name because the corresponding clip is automatically defined by the standard #AU(THOR) command. For other data we use variables.

Template: tmpl_letter.tex

```
\\documentclass[12pt,a4paper,english]{letter}
#PREMATTER: -doc_def
\\address{{get: author}\\\
    {val escapebackslash!: address}}
\\signature{{get: author}}
\\begin{letter}{{val: addresseeName}\\\\
    {val escapebackslash!: addresseeAddress}}
\\opening{Dear {val: addresseeName},}
#BODY
\\closing{Sincerly,}
\\vfill{}
\\encl{{val: enclosure}}
\\end{letter}
#POSTMATTER
  Input file: example-letter.txt
#AU: John Smith
#DATE: today
#VAR id=address: Cool Place 1{nl inline!}Hiptown 10000
#VAR id=enclosure: Important Document
#VAR: addresseeName=Max Mustermann
#VAR: addresseeAddress=Tolle Straße 2{nl}Neustadt 20000
I would like to say thanks for your last letter which I read with much joy. I
hope to be hearing from you soon.
  Command line:
deplate -t tmpl_letter.tex -f latex example-letter.txt
pdflatex example-letter.tex
  Result: example-letter.pdf
```

6 Input Formats

The -i command-line option allows to select an input definition file.

6.1 deplate

This is deplate's "native" markup as defined in the following pages (see 9). This is the markup that corresponds to the Vim viki plugin.

6.2 deplate-restricted

This is a restricted version of deplate's "native" markup. The following elements are disabled: Commands:

- INC
- MODULE
- WITH
- ABBREV

Regions:

- Any Define type of region
- Native
- Img
- R
- Ruby

Macros:

- \bullet ins
- ruby

Setting variables not beginning with an underscore is disabled. I.e. you can't set any variables listed in 14.1.

6.3 deplate-headings

Print headings only; filter any other text.

6.4 rdoc

This input definition reads a subset of ruby's rdoc format. For an examples of a documents created from rdoc input please see:

- http://constraint.rubyforge.org/ (source)
- http://websitiary.rubyforge.org/

Limitations:

- The :main: and the :call-seq: directives are not implemented yet
- deplate doesn't distinguish between bold and italic
- There maybe are some deviations from rdoc, e.g., in the way list items with interleaved verbatim text are handled

deplate supports the following addition(s), which rdoc doesn't:

- extra directives
 - :maketitle: (the title is automatically created when using the :title: directive)
 - :author: (place this above a :title: directive if you want the names to appear on the page)

Example 6.1: RDoc input

```
=== heading (rdoc, level 3)
_italic_, <em>italic</em>,
*bold*, <b>bold</b>,
+typewriter+, <tt>typewriter</tt>
http://deplate.sf.net
http://deplate.sourceforge.net/linked.png
link:index
Homepage[http://deplate.sf.net]
{Deplate Homepage}[http://deplate.sf.net]
    verbatim
1. numbered
a. alpha
- bullet
* bullet
label:: text
+label+:: text
[label] text
[+label+] text
  yields:
```

6.4.1 heading (rdoc, level 3)

```
italic, italic, bold, bold, typewriter, typewriter
http://deplate.sf.net
```



index

Homepage

Deplate Homepage

verbatim

- 1. numbered
- a. alpha
- bullet
- bullet

label text

label text

label text

label text

6.5 play - Hypothetical support for screen-plays and stage-plays

play is a subset of the standard deplate markup with some additional styling and conventions. Currently only a CSS file is provided.

This can be formatted as stage play using the latex-dramatist (p. 29) formatter.

Output via LaTeX's screenplay class is planned.

Formatting rules:

Headings (Level 1) Scenes (see below for the format)

Paragraphs Stage directions

Description list Dialog lines

Bullet lists Inserted stage directions (their meaning depends on the formatter)

[TEXT] Minor directions.

Extra commands:

Important:
This input it ter is in a state of flux. Y probably don want to u it yet. The currently is appropriate output fill anyway.

#CAST The cast (if supported by the formatter). The casting is defined as a description list that is tagged as "cast". Setting the property "cast" works too but is deprecated due to problems when applying X_speaks filters (see below).

#ACT Begin a new act (if supported by the formatter)

NOTE: Don't rely on the availability of syntax elements not mentioned above. Most of them are disabled for this input filter.

Dialog lines are automatically tagged with #{Name}_speaks and can be filtered using the efilter variable (see 14.5). This way you can get a quick overview of whether a person speaks in a consistent tone.

The scene headings have the following format: Title :: Location -- INTEXT/TIME. How scene headings are actually printed depends on the output format.

INTEXT can have the following values:

```
Exterior E, EXT, EXT., >, A (German "außen")
Interior I, INT, INT., <
```

TIME can be abbreviated with:

```
Day D, T (German "Tag" = Day)
```

Night N

Example 6.2: Play input

```
#PUSH: css=+play.css
#ABBREV word=Mm: Michael
#ABBREV word=M: {mark1st: Michael}
#ABBREV word=Ms: {mark1st: Michael}\'s
#ABBREV word=Nn: Nora
#ABBREV word=N: {mark1st: Nora}
#ABBREV word=Ns: {mark1st: Nora}\'s
   Mm :: man
   Nn :: woman
   #PP: tag=cast
#CAST
#ACT
* Exciting News :: Beach -- E/D
N reads a book.
M is half buried in the sand. He looks at the cover of Ns book.
   N :: What a wonderful day this is.
   M [mumbles] :: Maybe.
    - The sun drops from the sky.
   {\tt N} :: And what an interesting book this is I'm reading. I cannot
      remember having read such breathtaking action scenes since last
   M [mumbles] :: Possible.
```

- The sky drops into the sea.
- + Fade out

vields:

Michael man

Nora woman

6.5.1 EXT. Beach - Day

NORA reads a book.

MICHAEL is half buried in the sand. He looks at the cover of Nora's book.

Nora What a wonderful day this is.

Michael (mumbles) Maybe.

• The sun drops from the sky.

Nora And what an interesting book this is I'm reading. I cannot remember having read such breathtaking action scenes since last summer.

Michael (mumbles) Possible.

- The sky drops into the sea.
- Fade out

6.6 template

Works like normal templates as describe in 5.5. Best used in conjunction with the template output filter (p. 30).

7 Output Formats

Some cursory remarks. The output can be fine tuned by setting certain variables – see 14.1.

7.1 HTML, single-file (no chunks) output

This is the default formatter. It generates plain html; tidy gives some warnings (mostly about nested lists), but no errors. Formatting has to/should be done via a css.

Notes:

Citations Currently only some kind of APA-look-alike style is provided. The bibliography is compiled directly from a set of BibTeX files. It probably fails on some entries.

Headings Set the document variable "headings" (see 11.1) or the headings option (see 14.4) to "plain" to turn off numbering.

7.2 HTML Site, multi-page (chunky) output

This is a variant of the HTML formatter that can be used to generate websites. The output is broken at first level heading so that each chapter is saved in its own file. By default the file names are numbered (e.g., basename.html, basename00001.html, basename00002.html ...). If you give a first level heading an id (see 9.4), this id will be used instead – as it was done for deplate's online documentation.

If docNavbar variable is defined and true (i.e., "1"), a navigation bar is added to the top and the bottom. If docNavbar equals top, only the top navigation bar is displayed; if it equals bottom only the bottom navigation bar. In general, using templates is a much more convenient and flexible way to add navigation bars. Take a look, e.g., at deplate/templates/html-left-tabbar-js.html for the template that was used to create the online documentation.

If JavaScript is enabled, you can navigate through the slides by pressing:

<a-p> Previous page

<a-h> Front page

<a-n>, <Shift> Next page (double clicking on a heading moves to the next page, too)

Navigation was originally inspired by html slides by Gervase Markham.

7.3 HTML Slides, abbreviated online presentations

This is a variant of htmlsite that can be used to create html based presentations. In its default setting, it "swallows" paragraphs (unless the noSwallow variable (p. 72) is given). This way you can easily generate a full paper and an abridged presentation version (just the lists, the figures, and the tables) from the same source.

7.4 HTML Website

This is a variant of the htmlslides formatter that places a tabbar at the top of the page. htmlwebsite was kindly contributed by Fritz Heinrichmeyer.

NOTE: This formatter is obsolete. Fritz Heinrichmeyer now uses his htmlslides-navbar-fh (p. 40) module in conjunction with the html-slides formatter and page templates.

7.5 XHTML 1.0-transitional (xhtml10t)

This is a minor variant of the HTML formatter that improves XML conformance.

7.6 XHTML 1.1 with MathML (xhtml11m)

This is a hackish variant of XHTML 1.0t.

7.7 Php, PhpSite

This is a simple variant of the HTML formatter that can be used for generating php output. PhpSite is based on HTML Site.

The following additional elements are provided by the php-extra module.

Additional region:

#Php Insert the body as php code

Additional command:

```
#PHP Insert the body as php code
```

Additional macros:

```
{php: BODY} Insert as php code (<?php BODY ?>)
{=BODY} print_r the php code (<?php print_r (BODY) ?>)
```

Example 7.1: Php output

```
# Test Php-Output

#Php <<--
$mod = "absolutely";
echo '<p>Here we go!';
--

Mixing php control constructs and ''deplate'' markup:

#PHP: foreach(array('doing', 'saying', 'writing about') as $action):
I have {php: echo $mod} no idea{fn: none} what I'm __{=} $= $action}__.

#PHP: endforeach;

#Fn: none <<--
None whatsoever.</pre>
```

7.8 LaTeX

If you give the -pdf option, some packages are marked for use with pdflatex.

The LaTeX-formatter assumes the use of the natbib-package for citations (see DeplateMacro#formatted_citation).

The graphicx package is used for displaying graphics, the hyperref package for hyperlinks.

If you set the useBooktabs variable, the booktabs package is used. This results in prettier ready-to-print tables but interferes with table styles.

If you don't provide image dimensions (bw, bh options), deplate uses ImageMagick's identify to guess its width and height.

• If you prefer a different tool, redefine Deplate::External.image_dimension(filename), which returns the bounding box as [bw, bh, bx, by] (bx and by are most likely ignored)

You can set the DIV variable to change the typearea. This uses koma's typearea package.

7.8.1 latex-dramatist: Typeset stage plays with the dramatist package

In conjunction with the play (p. 25) input filter, this formatter generates nicely formatted stage plays, thanks to the dramatist package.

- Scene titles won't be printed.
- Groups can be defined as follows:

```
Name One :: A man
- Group A
Name Two :: A woman
Name Three :: Another man
Name Four:: Another woman
```

7.9 Docbook: article, book, reference pages

The docbook formatter currently is able to generate proper xml for the deplate manual but it doesn't perform any validation and doesn't try to modify the input in order to attain valid output. It should work most of the time though.

The formatter currently comes in the following flavors:

dbk-article Format as an article

• use the headings: "sect1", "sect2" ...

dbk-book Format as a book

• use the headings: "chapter", "sect1", "sect2" ...

dbk-ref Format as a reference or man page

- use the headings: "refsect1", "refsect2" ...
- make uses of the following doc variables if provided
 - refentry (or use the filename)
 - manvol (defaults to "1")
- the document title (defined with #TI) is used as refpurpose
- there is currently no way to define a synopsis in deplate

7.10 Plain text

Wow! deplate can also convert mostly markup-free text formats to plain text.

If the asciiArt variable is set (or if it set to "jave"), deplate uses Jave to convert images to ascii representations. You can use the additional ascii_algorithm and ascii_width arguments to tweak jave's output.

This requires a jave command to be in the path. Such a command could look like this:

```
#!/bin/bash
exec java -jar $JAVE_HOME/jave5.jar $@
   or (for Windows):

@echo off
%JAVA_HOME%\bin\java.exe -jar %JAVE_HOME%\jave5.jar %*
```

7.11 Template

This formatter is used by deplate for filling in templates as described in 5.5. From a user perspective, it could be useful in conjunction with the template input filter (p. 27).

8 Modules

8.1 Localization: lang-en, lang-de, lang-ru-koi8-r, lang-zh_CN

With these modules, messages like "Bibliography", "Table of Contents" are translated to a localized equivalent.

Available localizations are:

de German

• In LaTeX output, this module makes use of the "german" package

ru-koi8-r Russian (kindly contributed by Maxim Komar)

zh_CN Chinese (kindly contributed by Jjgod Jiang)

- When used with LaTeX output, this module uses the following packages: CJK, CJKnumb, indentfirst; the text is set in a CJK* environment
- Like in the CJK* environment in LaTeX, a tilde denotes a space between an English and non-English word (in HTML, this will become a normal space, though)
 - Wiki names should not contain tildes but only normal space
- Spaces and newlines will be swallowed
- The following document variables can be used to parametize this module
 - cjk_family (default: gbsn)
 - cjk_encoding (default: GB)

In LaTeX output, the CJK* environment will be: \begin{CJK*}{ENCODING}{FAMILY} In order to change these variables permanently, add something like variables['cjk_encoding'] = 'GBK' to your definition of Deplate#user_initialize (p. 17).

- If you want to keep blanks as they appear in the document, you have to set Deplate::Formatter.cjk_smart_blanks to true or set the document option noSmartBlanks. If you want to change this setting for some modes only, add your settings to ~/.deplate/after/fmt/FORMATTER.rb.
- **zh_CN-autospace** Like zh_CN but tries to figure out which spaces it should set and which ones it should swallow
 - \bullet this module requires the encoding to be gb2312 or, to be more precise, it requires an encoding where CJK-characters are made up of double byte characters in the range 0xA1-0xFE
 - what was said about Deplate::Formatter.cjk_smart_blanks for zh_CN applies too

8.1.1 guesslanguage: Guess the locale

The algorithm of this plugin is based on D Benedetto & E Caglioti & V Loreto "Language Trees and Zipping". It's a direct port of Dirk Holtwick's "Guess language of text using ZIP".

Table 2: How the zh_CN modules set spaces

Input: zh_CN	Input: zh_CN-autospace	Output: HTML	Output: LaTeX
C	C	CC	$CC \text{ or } C C^a$
$C \ nC$	$C \setminus nC$	CC	CC or C C
C^a	C a	C a	C^a
a \sim C	a C	a C	a \sim C
C\n~a	C∖na	C a	C^a
$a \sim nC$	$a \nC$	a C	a \sim C

^aOnly the autospace variant maintains spaces between Chinese characters in LaTeX output. These spaces are swallowed by the LaTeX CJK* environment.

order to make this work, you'll have sample files to save some ~/.deplate/locale/LANG.ENCODING_data. I.e., in order to enable autodetection for German documents, find some German sample, save it as de.latin1_data, and make sure the guesslanguage module gets loaded. You'll also have to allow 1 (see 5.3 and 4).

If you want to see your locale/language supported, send me translations of the message file and freely distributable text samples.

8.2 General

8.2.1 anyword: Turn specified words into hyperlinks

A list of words that should be turned into wiki names can be defined via the document options:

anyword_list a list a names separated by ","

anyword_catalog a file name that contains automatically generated wiki names one per line
anyword_pattern a glob file pattern

anyword_suffix remove this suffix from file names to get the corresponding wiki names

If no wiki names are defined, all files in the source files' directories will be used.

8.2.2 code-coderay: Highlight #Code regions using coderay

Requires you to install the coderay gem by Kornelius Kalnbach. Supported languages:

- ruby
- c
- delphi
- html
- rhtml
- xhtml

8.2.3 code-gvim, code-gvim71: Highlight #Code regions using gvim

This modules make use of gvim to highlight code regions for html output. The code-gvim71 is suitable for newer versions of gvim (7.1+).

NOTE: This module relies on an external program. You thus have to allow deplate to run programs, e.g. by using the -X command line switch.

8.2.4 code-highlight: Highlight #Code regions using gvim

This modules make use of André Simon's highlight to highlight code regions for html, xhtml, and LaTeX output.

Type highlight --list-langs to get a list of supported languages.

The style information is currently not included in the output itself. You have to save the style definition in an auxiliary file—highlight-#{STYLE}.css for HTML output, highlight-#{STYLE}.sty for LaTeX. Consequently, it's only possible to use one style per file, which is why you should probably set the style via the codeStyle document variable. If no style is defined, the file names are highlight.css and highlight.sty.

NOTE: This module relies on an external program. You thus have to allow deplate to run programs, e.g. by using the -X command line switch.

8.2.5 endnotes: Turn footnotes into endnotes

This module turns footnotes into endnotes that can be listed using the command:

#LIST: endnotes

The module uses the "endnotes" package in LaTeX format.

8.2.6 entities-decode: Insert characters as entities

This module makes it possible to insert characters as entities.

Example 8.1: Entities

#VAR: encoding=utf8
alpha α and beta β.

The entities are stored as tab-separated tables (3 columns: printable character, named, numbered) in:

- ents/NAME-FORMATTER_ENCODING.entities
- ents/NAME-ENCODING.entities

NAME is given by the entities variable. If undefined, use general. Currently, only UTF-8 encoded entities files are provided.

8.2.7 entities-encode: Insert characters as entities

The opposite of entities-decode. Encode special characters.

8.2.8 iconv: Convert text between encodings

The source encoding is defined in the encoding variable (default: "latin1"), the target encoding in the recodeEncoding variable (default: "utf-8"). So, your input text file can be in latin-1 and your docbook output in utf-8.

8.2.9 imgurl: Insert urls/links to images as images

Insert urls/links to images as images and not as references.

8.2.10 linkmap: Define labels refering to URLs

Jeff Barczewski took the idea of markdown to not include URLs in the text but labels that are replaced with the URLs and adapted it for deplate.

This module also modifies the ref macro (see 12.2) to use these labels.

Example:

```
Syntax for using links in map (any of following):
- [[Example]]
- [[Example] [This example]]
- [[Example] [Example in a box]*], i.e. in a new window
- [[Example]$] no follow rel

or to embed raw URL using macro{ref: Example} foo.

Use the ref macro but display the URL{ref p!: Example}.

Use the ref macro but display a different name{ref name=this example: Example}.

#LinkMap <<---
Example: http://www.example.com/foo.php&bar=123#abc---
yields:
```

Syntax for using links in map (any of following):

- Example
- This example
- Example in a box, i.e. in a new window
- Example no follow rel

or to embed raw URL using macro Example foo.

Use the ref macro but display the URL http://www.example.com/foo.php&bar=123#abc.

Use the ref macro but display a different name this example.

NOTE: The LinkMap environment can be located anywhere in the current source. Labels are effective only in the current source unless global! is set.

8.2.11 makefile: Create Makefiles

This module creates a Makefile and exits from the current run. The Makefile should be suitable for most tasks.

Example 8.2: The makefile module

First run:

deplate -m makefile -m de -m html-obfuscate-email index.txt

This will create Makefile and Makefile.config. Then, you can run, e.g.,

make website

to create a multi-page website (HTML output, using the htmlsite formatter).

NOTE: In case you want to create new make goals, put them into Makefile.config. If you run the above command again, the Makefile will be overwritten but not Makefile.config.

The following goals might be of use:

cleantex Remove temporary LaTeX files

dbk Create docbook output

dvi Create dvi output (via LaTeX)

dviclean Create dvi output and remove temporary files

html Create single-page HTML output (the default)

man Create a man page (via DocBook & xmlto)

pdf Create PDF output (via LaTeX)

pdfclean Create PDF output and remove temporary files

php Create PHP output

tex Create LaTeX output

text Create plain text output

website Create multi-page HTML output

The generated Makefile supports implicit, suffix-based rules. Example:

make extra.html

This will convert the file extra.txt (because in the above example the suffix was txt) and convert it to single-page HTML, using the command line options defined when creating the makefile.

8.2.12 mark-external-urls: Mark external references with icons

URLs will be marked with images – "mailto.png" or "url.png" depending on the type. The image names can be redefined by setting the document options "mailtoIcon" or "urlIcon". In this manual I use icons from the QBullets set.

8.2.13 numpara: Numbered paragraphs

This module adds a running number to each formatted paragraph. The paragraphs are numbered as they are formatted, which means that clipped paragraphs, non-standard document slots, or pragraphs in headers of footers are likely to result in a "non-linear" sequence. Add the attribute/option noNum to these "out-of-order" paragraphs.

Example 8.3: The numpara module: Don't number specific buffers

```
#Clip id=clippedParagraph <<--
Some text that forms a paragraph.
#OPT: noNum!
---

If you want to change the way paragraphs are numbered redefine the method
Deplate::Element::Paragraph#add_number like in this example:
    Example 8.4: The numpara module: Change numbering style
class Deplate::Formatter
    def numbered_paragraph(text, number)
        return [plain_text("§"), number, " ", text].join
    end</pre>
```

8.2.14 particle-math: LaTeX-like \$\math\$ markup

end

This module provides a particle that enables you to markup mathematical text by enclosing it in dollar signs as it is used in LaTeX. This is not enabled by default in order to reduce the number of special characters. The text is converted as if you had used the math macro (see 12.5).

8.2.15 smart-dash: Insert long or short dashes depending on the context

This module defines a single dash ("-") as a symbol and turns it into a long dash (i.e. "-") in some situations:

- when preceding character is a digit
- when the next character is a digit
- when the preceding and the next character are wiki word characters

This module also removes the double dash -- (see 9.10) from the symbol table. You can force long dashes by using '--.

8.2.16 smiley: Replace text smileys with images

Currently only the basic smiley is being recognized.

```
:-) (a)

You can define you own smileys by adding something like this to 
~/.deplate/after/mod/smiley.rb:

Deplate::Particle::Smiley.def_smiley(':-(', 'smiley_sad'))
```

The suffix of the image file is controlled by the smileySfx or imgSfx variables.

8.2.17 utf8: Improve unicode awareness

When using this module, deplate takes care of UTF-8 multibyte sequences when sorting the index and similar occassions. This module also sets the output encoding to "UTF-8".

8.2.18 xmlrpc: Work as a xmlrpc server

This modules makes deplate work as an xmlrpc server. The xmlrpc server could run in an protected context and make deplate formatting capabilities available in an unsafe environment.

This module is experimental and not well tested. The module takes no precautions with respect to concurrent formatting requests.

The xmlrpc server knows the following handlers/methods:

```
convert(format, text) return the converted string
convert_string(format, text) same as above
```

- convert_file(format, filename) convert the file FILENAME and return the name of the output file (this requires the server and the client to work on a shared directory
- string_to_fileset(format, filename, text) convert text and return a hash (or whatever) that contains filenames and their contents; this hash comprises auxiliary files too; it's up to the client to save them in a proper place; cross-references assume that these files reside in the same directory
- fileset_to_fileset(format, main_filename, fileset_as_hash) convert a fileset (a hash of names and contents) to a fileset
- NOTE: The xmlrpc server creates a new converter for each request unless the xmlrpcReuseInterpreter variable ist defined, which will make it reuse the previous converter (the consequence of which is that abbreviations, indexes and the like from earlier documents are still active). This was the default behaviour before version 0.7.3.
- *NOTE:* This module isn't available in the win32-exe distribution. You have to use the source distribution or the ruby gem.

Example 8.5: Invoke as a xmlrpc server

The server (we must give a file name as argument so that deplate doesn't complain about missing arguments):

```
a> deplate -m xmlrpc -
[2005-01-28 20:02:15] INFO WEBrick 1.3.1
[2005-01-28 20:02:15] INFO ruby 1.8.1 (2003-12-25) [i386-cygwin]
[2005-01-28 20:02:15] INFO WEBrick::HTTPServer#start: pid=2536 port=2000
[...]

A client:

b> irb
irb(main):001:0> require 'xmlrpc/client'
irb(main):002:0> deplate = XMLRPC::Client.new("localhost", "/deplate", 2000)
irb(main):003:0> puts deplate.call("convert", "html", "Some text ...")
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html lang="en">
<head>
[...]
```

```
irb(main):004:0> puts deplate.call("convert", "latex", "Some text ...")
\documentclass[11pt,a4paper,english]{article}
\usepackage[latin1]{inputenc}
\usepackage[]{suppl}
[...]
```

There are some variables to change the port and the path:

xmlrpcAllow a space separated list of IP addresses or regular expressions matching valid IP addresses

```
xmlrpcPort default is 2000
xmlrpcPath default is "/deplate"
```

8.3 Syntax

8.3.1 syntax-region-alt: Alternative syntax for regions

This module provides an alternative Syntax for regions.

Example 8.6: The syntax-region-alt module

```
===== Region options: args content ====== Optional Comment
```

There have to be at least 4 equal signs at the beginning of the line. The number of equal signs in the end statement has to match the number in the begin statement.

8.3.2 markup-1: Re-enable pre0.6 text styles

Since 0.6 the markup for textstyles was changed in order to choose characters that are less likely to be appearing in ordinary text for markup. Use this module to re-enable the old pre 0.6 markup:

```
Emphasize *word*, **any text**
Typewriter, Code =word=, ==any text==
```

8.4 LaTeX

8.4.1 inlatex-compound: Compile LaTeX bits as one file

This (still experimental) module changes the way deplate compiles LaTeX bits (e.g., when using the ltx or math macros). Usually deplate would save each bit into one file and run this file through LaTeX. This approach is simple to manage but has the disadvantage that LaTeX commands defined in one bit are unknown in another.

This module makes deplate collect all LaTeX bits in one file. Afterwards, the resulting postscript file is split in pieces it order to create one image per page.

If a LaTeX bit covers more than one page, this module fails.

8.4.2 koma: Support for the Koma-Script class

Some support for koma script's document classes:

- Use scrartcl instead of article
- Use scrpage2 for headers and footers

8.4.3 latex-emph-table-head: Emphasize head rows

Emphasize header cells and add a ruler after a header row.

8.4.4 latex-verbatim-small: Print verbatim regions in small font size

In order to make it easier for LaTeX, this module prints verbatim regions in small font size.

8.4.5 latex-styles: Styled LaTeX output

This module provides the infrastructure for styling LaTeX output. Currently, only a few table styles are supported. Please see 9.7 for examples.

8.5 HTML

8.5.1 soffice: Support for Star/Sun/OpenOffice HTML

Not much yet:

- Footnotes, headers, and footers are marked in OpenOffice compatible format by default
- Make the pagenumber macro insert a reference to the PAGE field

8.5.2 html-asciimath: Support for ASCIIMathML.js

ASCIIMathML.js by Peter Jipsen translates plain text formulas to MathML. As it happens to know some LaTeX syntax, it can be used to translate the math macro (p. 81) to MathML.

ASCIIMathML.js does the translation when viewing the document in your browser which could result in some delay when viewing large files. ASCIIMathML requires JavaScript to be enabled and works with the following browser:

- Internet Explorer 6 + MathPlayer
- Netscape7.1/Mozilla/Firefox

If you don't use this module, the LaTeX code will be embedded as image.

Don't forget to copy ASCIIMathML. is to the output directory.

8.5.3 html-headings-navbar: Insert a navigation bar before level 1-headings

This module defines a style which insert a simple navigation bar with a drop-down menu and forward/backward buttons before every level-1 heading.

You can set headingsNavbarMaxLevel (default=1) in order to add a navbar for deeper nested headings too.

8.5.4 html-jsmath: Support for jsMath.js

jsMath.js serves a similar purpose as ASCIIMathML (p. 39).

8.6 html-mathml: Support for the mathml gem

Do make this work, you have to

- 1. install mathml by KURODA Hiraku
- 2. use xhtml11m (p. 28) as output format.

8.6.1 html-obfuscate-email: Obfuscate e-mail

This module replaces e-mail addresses (but only those that have a mailto prefix) with some presumably harvester-safe representation. The JavaScript representation is an array of hex chars, which is a method used by several other tools. The no-script representation has the mailto prefix removed and the characters @ and . are replaced with AT and DOT.

8.6.2 html-sidebar: Display a sidebar containing a small table of contents

If JavaScript is enabled, you can move the mouse to the left side to view a small table of contents.

8.6.3 navbar-png: Display images in the navigation bar

This module redefines the buttons in the navigation bar for using images: prev.png, home.png, next.png

8.7 HTML Slides

8.7.1 htmlslides-navbar-fh: Modified navigation bar

This module, which was contributed by Fritz Heinrichmeyer, provides a modified navigation bar using span tags instead of a table and is meant as a replacement for the html-website formatter.

If you want this navigation bar to be the default, you can either require it in your config.rb file or copy/move/link it to ~/.deplate/after/fmt/htmlslides/.

8.8 Docbook

8.8.1 symbols-*: Modify the representation of symbols

If you define the document option "sgml", then the formatter won't insert symbols in plain utf-8 but in something programs like jade deal with more docile.

When writing man pages, you might want to include the module "symbols-plain" instead.

8.8.2 noindent: Avoid insertion of spaces and newlines

If you define the document option "sgml", the formatter will also load this module which avoids inserting spaces and newlines. This make programs like jade output more nicely formatted documents.

8.9 Miscellaneous

8.9.1 DeplateString

The file deplate/deplate-string provides the class DeplateString, which is a subclass of String and has methods like #to_html, #to_latex etc. for easier use of this whole thing from within another program.

```
puts DeplateString.new('bar __foo__ bar').to_html
```

8.9.2 Nukumi2

require 'deplate/nukumi2'

There is a somewhat experimental support to use deplate as markup language for a Nukumi2 maintained site. In order to enable deplate for Nukumi2, you have to add this line to your Nukumi2 config.rb:

```
and maybe also, in order to enable inline LaTeX, Ruby code etc.:

DeplateString.deplate_options.allow += ['x', 'X']

A blog entry could then look like this:

#TITLE: Deplate Test
#DATE
#KEYWORDS: deplate

* It works!

Yes, this article was converted using ''deplate''.
```

This hack was written for Nukumi2 v0.5. It's not guaranteed to work with other versions. *NOTE:* There must be an empty line after the header section.

9 Markup

The markup corresponds to the markup of Vim's viki-plugin. There are some minor deviations, though.

This chapter is mainly a test course.

9.1 The Basics

9.1.1 Elements and Particles

A deplate document is made up of elements (a.k.a. block elements in HTML, XML etc.) that consist of particles (a.k.a. inline elements). No particle can cross element boundaries. This distinction is important to understand, as commands (p. 70) and regions (p. 54) yield elements, but macros (p. 77) yield particles.

Although deplate has some facitilities for program control (conditional or repeated output), it really is rather a markup language but no programming language. Although you can define new elements right within a deplate document using deplate markup, this only works for really simple elements.

If a line matches an element pattern (usually defined by the beginning of the line), it marks the end of the previous element and starts a new element. If a line matches no pattern, it either starts a new paragraph or is added to the previous element. Elements like headings, anchors, or table rows are one-line patterns to which no unmatched line will be added. Other elements like list items or paragraphs can be made up of more than one line.

9.1.2 Backslashes

The deplate markup is based on inserting special characters into the text as in this example: __emphasized__, which will be printed as *emphasized*. If you want to prevent deplate from interpreting these markers, they must be preceded by a backslash.

- The backslash is used as escape character that prevents the wikification of the following character.
- There are two exceptions:
 - 1. A backslash at the end of the line makes a pattern include the next line; any whitespace at the beginning of the following line is removed.
 - 2. A backslash in front of a blank results in non-breaking space.
- A backslash that should be printed must be preceded by a backslash.

9.1.3 Special Characters

You should especially take care with the following characters:

Curly braces ({}) Curly braces usually enclose macros; in other contexts, they should always be preceded by a backslash

• There are some grey areas though that could cause problems, e.g. when input to a macro (e.g. the ruby macro) contains an unmatched curly brace

Backticks (') Backticks are used to insert some symbols and should be escaped by a backslash in other contexts than inserting a special character.

Sequences of character you should notice:

Two underscores (__) followed by non-whitespace Emphasized text

Two single quotes (") followed by non-whitespace Literal text set in typewriter font

Two colons (::) surrounded by whitespace Used in definition lists

Characters with special meaning if they occur at the beginning of line:

Asterisks (*) Headings, unordered lists

Sharp sign (#) Anchors, commands, regions, ordered lists

Percent (%) Comments

List markers 1., a., -, *, #, @, ?, ?.

Other:

The dollar sign (\$) Although it has currently to be enabled by loading a module, there is a chance that this will become the standard delimiter for mathematical expressions typed in latex (with the AMS packages enabled). The standard markup will be either \$a = x + y\$ or with blanks \$a = x + y\$ as the dollar sign is most likely used before or after a digit.

Be aware that your editors line wrap can inadvertently place these characters at the beginning of a line.

Example 9.1: Text styles, backslash

9.1.4 Argument Values

Arguments to macros, commands, and regions:

- In argument values, the characters !=: and single double quotes must be preceded by a backslash
- Alternatively, you can enclose a value in double quotes (which will be stripped off; double-quotes must be escaped using a backslash) or parentheses (which will be retained)
- Argument values are stripped of whitespace; if you want an argument to contain leading or trailing whitespace, you have to enclose the argument in double quotes

There are two special arguments (fmt and if) that allow some control on whether an element will be included in the output. Please see 14.6 for details.

Table 3: Key arguments

```
Body
Example
                                                       Key Arguments
{macro}
                                                       {}
                                                                                                                 "foo"
{macro: foo}
                                                       {}
{macro boo!: foo}
                                                       \{\text{"boo"} \Rightarrow \text{true}\}
                                                                                                                 "foo"
                                                        \{\text{"boo"} \Rightarrow \text{true, "bar"} \Rightarrow \text{"1"}\}
                                                                                                                 "foo"
{macro boo! bar=1: foo}
                                                       \{\text{"bar"} \Rightarrow \text{"object(id=1)"}\}
                                                                                                                 "foo"
\{\text{macro bar=object(id=1): foo}\}\
\{\text{macro bar} = \text{``foo} := \text{bar''}: \text{foo}\}
                                                       \{\text{"bar"} \Rightarrow \text{"foo := bar"}\}
                                                                                                                 "foo"
                                                        \{\text{"bar"} \Rightarrow \text{"(boo} = \text{boo)"}\}
                                                                                                                 "foo"
{macro bar=(boo=boo): foo}
\{\text{macro bar} = \setminus (\text{boo} = \text{boo}): \text{foo}\}
                                                       \{\text{"bar"} \Rightarrow \text{"(", "boo"} \Rightarrow \text{"boo)"}\}
                                                                                                                 "foo"
                                                       \{\text{"bar"} \Rightarrow \text{"(", "boo"} \Rightarrow \text{"boo)"}\}
{macro bar="("boo=boo): foo}
                                                                                                                 "foo"
```

9.2 Comments (whole lines)

- The percent sign has to be first non-blank character in the line. Otherwise it's interpreted as a character.
- A comment separates lines as paragraphs.
- For intra-paragraph comments use the comment macro 12.2

Example 9.2: Comments

```
Line %1
%Comment
Line %2

yields:
Line %1 Line %2
```

9.3 Paragraphs

A paragraph a sequence of non-empty lines that don't match anything else.

Example 9.3: Paragraphs

```
Paragraph 1 finishes with an empty line. Paragraph 1 finishes with an empty line. Paragraph 1 finishes with an empty line.

Paragraph 2 finishes with an unordered list. Paragraph 2 finishes with an unordered list. Paragraph 2 finishes with an unordered list.

- Item 1

- Item 2

yields:
```

Paragraph 1 finishes with an empty line. Paragraph 1 finishes with an empty line. Paragraph 1 finishes with an empty line.

Paragraph 2 finishes with an unordered list. Paragraph 2 finishes with an unordered list. Paragraph 2 finishes with an unordered list.

- Item 1
- Item 2

9.4 Headings

NOTE: Headings can span more than one line by putting a backslash ('\') at the end of the line. Known options:

noList! prevent the heading from being listed in the toc; as you can see from the current heading, the heading number is increased nevertheless (which probably should be considered as a bug?)

caption the display name in the table of contents

shortcaption the display name in a minitoc; with multi-file output, this argument defines the optional file name

id similar to shortcaption; if an id and a shortcaption are given, the id will be used for the filename and the sort caption for the mini-toc

plain! Don't add any numbering to the heading. (Set the variable headings to "plain" if you want to turn off numbering for all headings.)

url=URL Turn a heading into a hyperlink; this requires the hyperHeading variable(see 14.1.2) to be set

If you set the variable autoFileNames, deplate will derive the file name from the heading.

```
* Level 1
#OPT: id=foo

** Level 2

*** Level 3
#OPT: noList! plain!
...
```

9.5 Lists (indented)

Example 9.4: List

```
- Item
    * Item
        + Item
            1. Item 1
                a. Item a
                B. Item B
                #Verb <<----
                EMBEDDED VERBATIM TEXT
            2. Item 1
                || Embedded || Table ||
                | x
                      | 1
                                     - 1
                            1 2
    * Ttem
        # Item 1
            @ There is much to say about Item A, too much to be put
              in words or to be written down.
             What else is there to say about Item A?
```

```
@ Item B
         # Item 2
 - Do this
     #A _ Some task
     #B1 _ Some other task
 - Do that
     #A x11-11-2050 Something was done!
     #B1 11-11-2050 Some other task
yields:
      • Item
          - Item
              * Item
                1. Item 1
                   a. Item a
                  B. Item B
                     EMBEDDED VERBATIM TEXT
                2. Item 1
                    Embedded Table
                                 1
                                 2
          – Item
             1. Item 1
                a. There is much to say about Item A, too much to be put in words or
                   to be written down.
                   What else is there to say about Item A?
                b. Item B
             2. Item 2
      \bullet Do this
```

A Some task

B1 Some other task

• Do that

A (11-11-2050) Something was done!

B1 (11-11-2050) Some other task

NOTE: "#" (numbered, ordered lists), and "@" (ordered lists with letters) are the preferred markers. If you use dashes as in LaTeX (i.e. "_"), a dash appears to be okay too. Be aware that, like LaTeX, deplate concatenates two normal dashes ("_") to one long dash ("_") – see also 9.10.

NOTE: If you run into troubles when nesting lists, consider the use of the list macro 12.5.

NOTE: Task lists are implemented as varlist in DocBook.

9.6 Description lists (indented)

Example 9.5: Description list

Item :: Description
yields:

Item Description

9.7 Tables

A table is marked as sequence of lines beginning and ending with one or two "|" symbols. Two pipe symbols (or whatever its name is) define a row belonging to the head or the foot.

A row containing only empty cells and cells with hyphens defines a ruler.

A cell containing only "^" means concatenate with the cell above. A cell containing only "<" means concatenate with the cell to the left.

Tables take the following options (via the OPT command):

head=N The number of rows encompassing the table head

foot=N The number of rows encompassing the table foot

hiRow=N1,N2,first,last,... The rows to be highlighted

hiCol=N1,N2,first,last,... The columns to be highlighted

rows=ROWDEF1, ROWDEF2, ... Define a row's attributes

- ROWDEF has the form: KEY1.VAL1 KEY2.VAL2 ...; KEY being one of
 h The row height
- a ruler counts as a row

cols=COLDEF1, COLDEF2, ... Define a columns's attributes

- COLDEF has the form: KEY1.VAL1 KEY2.VAL2 ...; KEY being one of
 - w The column width
 - j The column's justification (left, right, center, or justified)
 - r Add a left-handed vertical ruler (the value denotes the number of rulers or its thickness)
 - This option is currently only interpreted for LaTeX output

long!, short! Define whether the longtable environment should be used in LaTeX output (by default, the longtable environment will be used for tables with more than 20 rows).

• Switching between the table and the longtable environment has some effects on the layout. One consequence is that footnotes are set properly only in the longtable environment. On the other hand, the here, floatHere, align, and floatAlign options are currently ignored.

style=NAME The table style (but see below)

stylex=NAME Like style but ignore tableStyle

note=TEXT A short note concerning data source etc.

In addition, the following options for "floats" apply too:

here!, floatHere=1 In LaTeX output, add the h attribute to the table environment

align=[left|right|center], floatAlign=[left|right|center] align the table; the first one is a table specific options, the second a global document option

Table 4: This Table

Head	Categor	ries
Row1	Value1	Value1
Row2		Value2
Row3	Value3	
Source: My H	Lood 2004	

Joining cells: If a cell contains nothing but "^" or "<", the current cell will be joined with the left one or with the cell above. (The actual output depends on the formatter and the capabilities of the target format, though.)

It depends on the formatter whether these options are interpeted.

Example 9.6: Table

NOTE: Rows can span more than one line by putting a backslash ($\langle \cdot \rangle$) at the end of the line.

NOTE: An empty cell is marked by at least 3 consecutive blanks.

You can also define a style for a table. The style attribute is currently only interpreted by the latex-styles module and to some degree emulated in HTML output – not so surprisingly, this works better in Firefox than in MS IExplorer.

The following styles are known (for one or another output format):

grid Draw all table borders/rulers

formal Draw a ruler at the top and the bottom of the table, as well as between groups

box Like formal but add vertical rulers on both sides

overlay Like box but draw the background of some rows and columns in gray or in colours

list Horizontal rulers between each row

small, footnotesize, scriptsize Smaller font sizes

dense08 decreased intercell spacing (there is a minor problem with line spacing)

landscape rotate the table (LaTeX only, I assume)

Example 9.7: Table styles

```
#Var id=styledTableExample <<---</pre>
|| Head || A || B ||
| Row1 | 1 | 2 |
| Row2 | 3 | 4 |
|| Foot || X || Y ||
#OPT: hiCol=first
Test ''grid'' & ''scriptsize'' styles:
#INCLUDE var=styledTableExample
#OPT: style=grid,scriptsize
Test ''formal'' & ''footnotesize'' styles:
#INCLUDE var=styledTableExample
#OPT: style=formal,footnotesize
Test ''box'' & ''small'' styles:
#INCLUDE var=styledTableExample
#OPT: style=box,small
Test ''overlay'' style:
#INCLUDE var=styledTableExample
#OPT: style=overlay,landscape
  yields:
```

Test grid & scriptsize styles:

Head	A	В
Row1	1	2
Row2	3	4
Foot	X	Y

Test formal & footnotesize styles:

Head	A	В
Row1	1	2
Row2	3	4
Foot	Χ	Y

Test box & small styles:

Head	A	В
Row1	1	2
Row2	3	4
Foot	X	Y

Test overlay style:

Head	A	В
Row1	1	2
Row2	3	4
Foot	X	Y

9.8 Anchors

Anchor (or labels respectively) are attached to the previous element, save if the previous element is a whitespace. In this case the anchor will be attached to the following element.

The name must begin with a lower letter. There mustn't be non-whitespace character before the sharp sign.

Example 9.8: Anchors

```
* This is section one
#labSectOne

Some text.
#labSomeText

#labSectTwo
* This is section two
```

9.9 Wiki Names, URLs

deplate is inspired by several wiki engines. It thus also provides formatting of wiki names and URLs as hyperlinks. There are about four types of wiki names.

Simple Any word in CamelCase is turned into a wiki name – save if wikification is prevented with a backslash – see 9.1.2.

Quoted Any text between [- and -] will be turned into a hyperlink.

Extended An extended wiki name has the form: [[DESTINATION][OPTIONAL NAME]MODIFIER].

- MODIFIER is optional.
 - "*" open page in new window
 - "\$" set rel="'nofollow"
 - "!" prevents deplate from adapting the reference's suffix
 - deplate was created as the publishing framework (or so) for a personal wiki (namely the Vim viki plugin). As such it assumes that the files being referenced to are converted to the same target format as the current file, which is why deplate modfies an extended wiki destination's suffix. Use this modifier to prevent deplate from doing so.
 - Often the chosen deplate output is only an intermediary file; in order to make deplate append the suffix of the final output file, set the document option suffix to the desired value. E.g. if you convert to docbook and then from docbook to html, pass the option -D suffix=html to deplate when converting the text sources.
- If you want a hyperlink to have an image, use: [[http://www.example.com][{img: example_image}]]. See also 12.5.

InterWikis An interwiki name is a shortcut to a different wiki. Any simple and quoted wiki name can be deferred to an interwiki by prepending NAMEINCAPITALS::. You have to define an interwiki before referring to it by adding something like this to your configuration file: InterWiki.add(''ID'', ''http://BASEURL/'', ''.SUFFIX'')

Wiki Names are automatically marked as index entries – see 11.4 and 11.5.

Example 9.9: Wiki names

```
WikiName
WikiName#anchor
[-name-]
[-some name-]#there
[--]#here
OTHERWIKI:: WikiName
OTHERWIKI:: WikiName#there
OTHERWIKI::[-some name-]
OTHERWIKI::[-some name-]#there
[[destination]]
[[destination][name]]
[[destination#anchor][name]]
[[destination.suffix]!]
[[OTHERWIKI::destination#anchor][name]]
[[#anchor]]
[[#anchor][name]]
```

9.10 Symbols

The backtick (') is used to introduce some symbols like quotation marks (e.g., in positions where deplate would choose the wrong one).

Symbols are not expanded in text marked as typewriter/code and in verbatim regions.

Example 9.10: Symbols

NOTE: If you want to disable some of these symbols, you could add some ruby code like this to your config.rb:

9.11 Markers

Markers are meant to highlight a position in the text. In order to avoid ambiguities with notes (see below), there should not be a space before or after the marker – i.e. it should immediately follow or precede the word it is referring to.

Example 9.11: Markers

- elaborate+++
- here###
- questionable???
- attention!!!

yields:

- elaborate*
 here*
 questionable*
 *###
- attention*

9.12 Notes

Indented paragraphs that begin with a marker and a subsequent space start an annotation, i.e. the text of paragraph will be turned in a margin note or similar – depending on the output format.

Example 9.12: Notes

```
Indented paragraphs that begin with a marker and a subsequent space start an annotation.

!!! Something like this.

yields:
```

Indented paragraphs that begin with a marker and a subsequent space start an annotation.

Important: Something lithis.

9.13 Strings, Smart Quotes

Example 9.13: Quotes

```
"Text in quotes"
yields:
"Text in quotes"
```

NOTE: Quotes are handled by two classes: Deplate::Particle::DoubleQuote and Deplate::Particle::SingleQuote. In order to disable smart quotes add this code to your config.rb:

9.14 Textstyles

Example 9.14: Text styles

```
__emphasize__, ''typewriter''

yields:

emphasize, typewriter

NOTE: There must not be a whitespace after the opening mark.

NOTE: Text in typewriter style is basically set verbatim with the expection of backslashes.
```

9.15 Breaks

A break is marked by at least 2 dashes, "8<", and again at least 2 dashes.

In HTML output, a break is represented by a horizontal line. In other output formates, a break actually denotes a page break.

9.16 Whitespace

A line of whitespace usually separates text elements – e.g. paragraphs,

10 Regions

The text marked by a region is interpreted according to the region's rules. The text could be normal deplate source, but it could also be ruby code, LaTeX, or whatsoever.

Check for end pattern:

```
#Type [OPTIONS] <<----
Text ...

Match until next empty line:

#Type [OPTIONS] <<
Text ...

Deprecated:

#Type [OPTIONS]:
Text ...
#End

This form can't be nested.
 "Type" being one of:</pre>
```

• Abstract

- Code
- Define
- Doc, Var
- Footnote, Fn
- For
- Header, Footer
- Img
- Inlatex, Ltx
- Native or the name of the chosen formatter
- Quote
- Set
- R (tables)
- Region (generic)
- Ruby
- Swallow, Skip
- \bullet Table
- Verbatim, Verb
- \bullet Write

10.1 Abstract

Example 10.1: Abstract

```
#Abstract <<EOA
''Deplate'' is ruby script for converting wiki-like markup to latex,
html, or "html-slides". The markup was originally based on the
emacs-wiki mode.
EOA</pre>
```

yields:

Deplate is ruby script for converting wiki-like markup to latex, html, or "html-slides". The markup was originally based on the emacs-wiki mode.

10.2 Code

This region should be used for displaying source code. Depending on the your use of the corresponding highlighter modules (see 8.2.4, 8.2.3) and its capabilities, the source code will be highlighted. Options:

id Allow deplate to cache the formatted output

syntax The code's syntax

style The style that should be used for highlighting

Example 10.2: Code, syntax highlighting

```
#Code id=Foo syntax=ruby <<---
class Foo
    # Return two times x
    def bar(x)
        x * 2
    end
end
---

yields:

class Foo
    # Return two times x
    def bar(x)
        x * 2
    end
end
end</pre>
```

NOTE: These corresponding highlighter modules rely on external programs. You thus have to allow deplate to run programs, e.g. by using the -X command line switch.

10.3 Define: DefRegion, DefCommand, DefMacro, DefElement, DefRegionN, DefCommandN, DefMacroN

This is still somewhat experimental and doesn't always work right.

These regions provide a deplate only way to define simple macros or rather mini templates. So you don't have to know ruby in order to perform macro/template-expansion kind of stuff.

These regions come with several synonyms:

DefRegion DefineRegion, Defr

DefCommand DefineCommand, Defc

DefMacro DefineMacro, Defm

DefElement DefineElement, Defe

DefRegionN DefineRegionN, Defrn

DefCommandN DefineCommandN, Defcn

DefMacroN DefineMacroN, Defmn

The anonymous argument will temporarily (during template expansion) assigned to the document option @body, which can be accessed by #VAR (p. 72), {var} (p. 78), #ARG (p. 72), or {arg} (p. 79). The doc command/macro insert the argument as plain text, while the arg command/macro parses the argument.

When choosing argument names, be aware that they are passed as document options (see 14.1) and that some of these arguments (e.g., id, fmt, noFmt, if) are implicitly evaluated by deplate. The unnamed arguments Onote and Obody are assigned by deplate.

Macro templates are parsed as normal templates first (see 5.5). As a consequence, macro templates may contain #IF commands and the like.

```
#Region NAMED_REGION_ARGUMENTS NAMED_TEMPLATE_ARGUMENTS: @note <<- @body - #Region NAMED_REGION_ARGUMENTS NAMED_TEMPLATE_ARGUMENTS <<- @body - #COMMAND NAMED_COMMAND_ARGUMENTS NAMED_TEMPLATE_ARGUMENTS: @body #COMMAND NAMED_COMMAND_ARGUMENTS NAMED_TEMPLATE_ARGUMENTS #COMMAND: @body #COMMAND: @body #COMMAND MACRO_ARGUMENTS NAMED_TEMPLATE_ARGUMENTS: @body} {macro NAMED_MACRO_ARGUMENTS NAMED_TEMPLATE_ARGUMENTS: @body} {macro: @body}
```

Example 10.3: Define a new region

```
#DefRegion id=ThingsIHaveTo <<--
Things I have to {arg default=eat: do}:
#XARG: @body
#DefMacro id=thing args=@body <<--</pre>
__{xarg: @body}__
% The ''args'' argument make these keys mandatory!
#DefCmd id=THING args=name @body <<--
| {thing: {xarg: name}} | {xarg: @body} |
#ThingsIHaveTo do=buy <<---
#THING name=Apples: 1kg
#THING name=Peaches: 2kg
  vields:
     Things I have to buy:
       Apples
                  1kg
       Peaches
                  2kg
```

The examples in this document were printed with this DefRegion:

```
#DefRegion id=Example <<--
Example:
#WITH arg=@body: Verb

yields{arg default="": note}:

#ARG: @body
--

Example 10.4: Example region

#Example note=" an example" <<---
__Yes__, this is an example of using the #Example region.
---

yields:

Example 10.5: Example region

__Yes__, this is an example of using the #Example region.
yields an example:</pre>
```

Yes, this is an example of using the #Example region.

This regions displays its body twice: first wrapped in a #Verb and then properly parsed and formatted.

Example 10.6: Literate programming

This can also be used for some kind of cheap literate programming experience.

```
#DefRegion id=Source @args=file <<--
\#WITH arg=@body: Write append! file={xarg: file}
\#WITH arg=@body: Code id={xarg:id}</pre>
```

The #WITH command is escaped with a backslash so that the template input filter, which preprocesses the body, doesn't complain about an unknown region (as the template input filter doesn't allow #WITH commands).

This region could be used as follows:

```
#VAR: codeSyntax=ruby codeStyle=tomacs
So, you would really like to define a new class. Now?
#Source id=classFooOpen file=foo.rb <<
class Foo
And then maybe even add a method?
#Source id=methFoo_test file=foo.rb <<
    def test(a)
        p a * 2
    end
Well, it's really up to you.
#Source id=classFooEnd file=foo.rb <<
end</pre>
```

The command

```
deplate --allow=w,W -m code-gvim71 test.txt
```

would then create two files (test.html and foo.rb). In this simple version the generated documentation and source files would reside in the same directory though. Before re-running the command, you'd have to clear the output directory.

10.3.1 Elements

Within some limitations, you can also define your own elements.

Example 10.7: Define an element

```
#DefElement rx=(\\s+)\\[ \\]\\s+(.*) <<--
{arg: 1}+ {arg: 2}
{arg: 1}#OPT: style=todo
--
#DefElement rx=(\\s+)\\[x\\]\\s+(.*) <<--
{arg: 1}- {arg: 2}
{arg: 1}#OPT: style=todo
--
[] Something I should do
    but haven't done yet.
[] Something else
[x] Something I did,
    maybe yesterday.

yields:</pre>
```

- Something I should do but haven't done yet.
 - Something else
- Something I did, maybe yesterday.

10.3.2 Particles

You can also define particles if you really want to.

Example 10.8: Define a new particle

10.3.3 Native templates

The *N variants of these regions define "formatter native" templates.

Example 10.9: Insert text literally

```
#IF: fmt=~html
#DefRegionN id=Pairs <<---
p<em>{arg: name}</em>
#ARG: @body
#DefCommandN id=LISTPAIR <<---
{arg: @body}
#DefMacroN id=pair args=name @body <<---</pre>
<em>{arg: name}</em>{arg: @body}
#Pairs name=A list of pairs <<---</pre>
#LISTPAIR: {pair name=<test>: <Foo>}
#LISTPAIR: {pair name=<native>: &}
#LISTPAIR: {pair name=<define>: <Bar>}
#ELSE
Sorry, the example is defined for HTML output only.
#ENDIF
  yields:
```

Sorry, the example is defined for HTML output only.

10.4 Doc, Var

Defining a document variable using the #Var can come handy in conjunction with #For (p. 60). It's important to understand that a variable defined by the #Var region is internally represented as an array (one entry per line). If you simply insert this array into a document, the result might not look like what you expected it to be. Also, if you write your own modules, using the #Var region is a convenient way to pass around information.

10.5 For

This region provides a simple way of looping through lists.

Arguments:

id The doc variables the values should be assigned to.

sep The list separator (if the argument is a string)

var The document variable, which holds the list (if this isn't defined, the text after the colon will be used)

Example 10.10: For

```
#Var: Fruits:
1kg, apples
2kg, peaches
#End
```

```
#For id=listentry doc=Fruits <<--
\#For id=kg,fruit sep=, doc=listentry:
I would like to buy \{arg: kg} of \{arg: fruit}.
#End
--
yields:
I would like to buy 1kg of apples.</pre>
```

I would like to buy 2kg of peaches.

It is necessary to escape the inner #For region and the arg macros with backslashes, because the body is passed through the template filter. You can prevent this by using the noTemplate! argument or by setting the legacyFor1 variable.

10.6 Header, Footer

The argument to these regions is either a paragraph or a table with up to three columns. The result of the header and footer region depends on the formatter.

HTML Insert the argument at the top/bottom of the document

LaTeX Ignore footer, add the header using \markright{}

LaTeX + koma module Use koma's scrpage2 package to format the header and the footer; with the koma module these regions take some optional arguments

- center, right (only if the text is a paragraph; the default is to put the header/footer in the left column)
- linesep=\d+, linesep=\d+pt, linesep! (defaults to 0.4pt)
 - or use the abbreviation "sep"

See also notes on the pagenumber (p. 81) macro.

10.7 Img

deplate provides support for including graphics generated "on the fly" by other programs.

Synonyms Image, Fig, Figure

Options:

id the basis for the filenames (RECOMMENDED, default: deplatxImgAuto%02d); if you don't provide an id, deplate uses an automatically generated one. Anyway, if you make changes to the document, it's possible that the generated graphics get messed up

sfx the graphic file's suffix

Argument (after the colon): PROGRAM_NAME COMMANDLINE_OPTIONS . . .

• PROGRAM_NAME is the program name known to deplate, currently

- dotneatoR
 - * Note: Options for the R devices can be defined as arguments to the region. In the form "DEV_OPTION" the option is specific to a chosen device (e.g. "png_width=700"). In the form "_OPTION", it is applicable to all devices (e.g. "_pointsize=10"). This is necessary as some devices expect dimensions to be given in inches, other in pixels. Please refer to the R manual to find out which options are applicable.
- COMMANDLINE_OPTIONS are pasted somewhere into the command call how this exactly happens depends on the calling method

The region Img returns an object of the same type as the command IMG (see 11.5). All arguments are passed on to the resulting object.

Example 10.11: Image created with dot

```
Using ''dot':
#Img id=dot_example: dot <<---
digraph structs {
    node [shape=record];
    struct1 [shape=record,label="<f0> A|<f1> B|<f2> C"];
    struct2 [shape=record,label="<f0> D|<f1> E"];
    struct3 [shape=record,label="<f0> F|<here> G"];
    struct1:f1 -> struct2:f0;
    struct1:f2 -> struct3:here;
}
#OPT fmt=latex: w=6cm
#CAP: Example based on the dot manual
Using ''R'':
#Img id=r_geyser: R <<---
attach(geyser)
truehist(duration, nbins=20, xlim=c(0.5, 6), ymax=1.2)
lines(density(duration, width="nrd"))
#OPT fmt=latex: w=6cm
#CAP: Example plot based on Venables/Ripley{cite y!: mass4}
  yields:
      Using dot:
      Using R:
```

10.8 Inlatex, Ltx

deplate contains primitive support for including LaTeX as graphics in non-latex documents. This requires latex, dvips, and ghostscript to be installed.

Synonyms Ltx

Figure 1: Example based on the dot manual

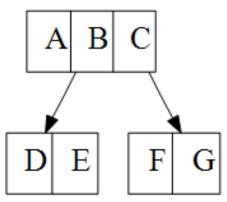
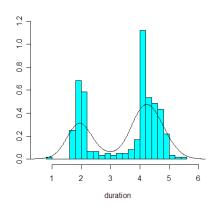


Figure 2: Example plot based on Venables/Ripley (2003)



Options:

id the basis for the filenames (RECOMMENDED, default: deplateLtxAuto%02d); if you don't provide an id, deplate uses an automatically generated one. Anyway, if you make changes to the document, it's possible that the generated graphics get messed up

sfx the suffix/device for the graphic file (default: jpeg)

rx the resolution of the graphic file (default: 140)

type "fig" (the default) or "table"

All the options if #IMG 11.5 apply, too. By default the following packages are loaded:

- amsmath
- amsfonts
- amssymb
- mathabx

If the LaTeX formatter was chosen anyway, the source is inserted literally in the output document. See the ltx macro 12.5 for an alternative for inserting smaller pieces of LaTeX-code.

The id is the basis for the filenames being used during conversion. The following files are generated:

• by deplate: FILE.tex

• by latex: FILE.dvi + auxiliary files

• by dvips: FILE.ps

• by ps2ppm: FILE.%02d.SFX

- this depends on the sfx option

Lines that match $/^{\sc}(usepackage|input)(\[.*\])?{.+}$ are put in the prematter of the latex file, the rest is put in the body.

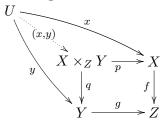
Lines ending with %%% are moved to the prematter too.

Example 10.12: Inline LaTeX

```
#Set: InlatexExampleClip <<EOC
#Inlatex inline! id=InlatexExample sfx=jpeg bh=27 bw=79 <<EOI
\usepackage{graphicx}
$\sum_{i=n}^{n} \operatorname{bv}_{sx_{i}}$$
EOI
EOC

This is a test ({get: InlatexExampleClip}) of a clipped Inlatex region
as an inline graphic.
#Inlatex id=InlatexExampleXY <<-----
\usepackage[all]{xy}</pre>
```

Figure 3: An example from the xypic-user guide



```
\parbox{5cm}{
\xymatrix{
U \ar@/_/[ddr]_y \ar@/^/[drr]^x
\ar@{.>}[dr]|-{(x,y)} \\
& X \times_Z Y \ar[d]^q \ar[r]_p
& X \ar[d]_f \\
& Y \ar[r]^g & Z }
}
-----
#CAP: An example from the xypic-user guide
yields:
```

This is a test $(\sum_{i=n}^{n} \tilde{s})$ of a clipped Inlatex region as an inline graphic.

10.9 Native

Example 10.13: "Native" text

```
#Native fmt=html <<EON <p>&lt;native&gt; html EON #Native fmt=latex <<EON Pure LaTeX. \sum_{i=n}^{n} x_i Pure LaTeX. \sum_{i=n}^{n} x_i
```

10.10 Quote

Synonyms: Qu Options:

long! Prepare a long quotation

Example 10.14: Quotations

```
#Quote <<---
As I said earlier ...
---
yields:
As I said earlier ...
```

clipped table

10.11 Set, Get

There are two ways of storing text for later use: clips and variables. Clips should be used for moving around parsed text within the document. Variables should be used for passing text to macros, commands etc.

The Set region and the SET command can be used to store clips. They differ in that the region results in an array of (block) elements and the command in a sequence of text particles/inline elements. This is important as there are also two corresponding ways to insert clips later on. The GET command, which is supposed to insert a block element, and the get macro, which works on the inline/text particle level.

```
Level
              Region
                       Command
                                   Macro
   Element
             Set
                       GET
   Text
                       SET
                                   get
  Example 10.15: Clip
#Set: clip <<EOC
| clipped | table |
#CAP: A clipped table
EOC
#GET: clip
#SET id=clippedText: clipped text
This is {get: clippedText}.
  yields:
```

This is clipped text.

10.12 R generated tables

Include tables generated on-the-fly using R. The region takes one optional argument:

xtable the result is a html table as formatted with xtable; this table won't be used as such but it will be parsed and transformed into a deplate table; a library(xtable) statement is added to the R source

verb, verbatim insert the result verbatim

drop the R code doesn't produce any interesting output (data sets, variables and the like should be saved in .Rdata)

The default is to generate a pseudo table from the verbatim R output. Options:

skip=HEAD skip=HEAD, TAIL skip=, TAIL Remove the first HEAD lines and the last TAIL lines from the R output

guess! scanTable! Try to guess column borders

Table 6: An example from the xtable manual using the tli data set

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
sex	1	75.37	75.37	0.38	0.5417
ethnicty	3	2572.15	857.38	4.27	0.0072
grade	1	36.31	36.31	0.18	0.6717
disadvg	1	59.30	59.30	0.30	0.5882
Residuals	93	18682.87	200.89		

Table 7: Summary of the tli data set

gr	ade	sex	disadvg	eth	nicty	tl	imth
Min.	:3.00	F:51	NO :65	BLACK	:23	Min.	:17.0
1st Qu	.:4.00	M:49	YES:35	HISPANI	C:20	1st Qu	.:69.0
Median	:6.00			OTHER	: 2	Median	:80.0
Mean	:5.56			WHITE	:55	Mean	:76.4
3rd Qu	.:7.00					3rd Qu	.:87.0
Max.	:8.00					Max.	:93.0

Example 10.16: Tables created with R

```
#R: drop <<---
data(tli)
x <- tli
save.image(compress=T)
#R: xtable <<---
fm1 <- aov(tlimth ~ sex + ethnicty + grade + disadvg, data=x)</pre>
fm1.table <- xtable(fm1)</pre>
print(fm1.table,type="html")
#CAP: An example from the xtable manual using the tli data set
#R <<---
summary(x)
#CAP: Summary of the tli data set
#R guess! <<---
summary(x)
#CAP: Summary of the tli data set (guessing cell borders)
The same inserted verbatim:
#R: verb <<---
summary(x)
  yields:
      The same inserted verbatim:
                             disadvg
                                           ethnicty
           grade
                      sex
```

Min. :3.00 F:51 NO:65 BLACK :23 Min. :17.0

Table 8: Summary of the tli data set (guessing cell borders)

grade	sex	disadvg	ethnicty	tlimth
Min. $:3.00$	F:51	NO :65	BLACK:23	Min. $:17.0$
1st Qu.:4.00	M:49	YES:35	HISPANIC:20	1st Qu.:69.0
Median $:6.00$			OTHER: 2	Median $:80.0$
Mean $:5.56$			WHITE $:55$	Mean $:76.4$
3rd Qu.:7.00				3rd Qu.:87.0
Max. :8.00				Max. :93.0

1st Qu.:4.00	M:49	YES:35	HISPAN	IC:20	1st Qu	.:69.0
Median:6.00)		OTHER	: 2	Median	:80.0
Mean :5.56	3		WHITE	:55	Mean	:76.4
3rd Qu.:7.00)				3rd Qu	.:87.0
Max. :8.00)				Max.	:93.0

10.13 Region

This is a generic region that can be used, e.g., to attach a style to some blocks. For HTML output, this would wrap the blocks in a div and define a class attribute.

10.14 Ruby

If a ruby region returns an array, its elements are treated as lines that are joined with "\n". Options:

plain! reformat ruby's output as a plain text paragraph (default)

verb! put ruby's output in a verbatim region

image=FILENAME the result is a FILENAME to be included

native! if neither the verb! nor the plain! option are given, consider the output to be already formatted.

context=ruby|deplate|self sets the context and the method that are used to evaluate the code

```
ruby use eval
deplate use the current instance of Deplate::Core
self use the invoking instance
```

The ruby code is currently simply evaluated in the context of the Deplate::Core.eval_ruby method. Inline ruby code can thus access a variable "caller" that refers to the instance, which invoked this evaluation. In future releases, the evaluation of ruby code will take place in a secured thread.

Example 10.17: Inline ruby

```
#Ruby context=deplate <<---
def a(x)
    return x*2
end</pre>
```

Table 9: An example of an char separated table

```
Foo Bar
1 2
```

```
"Evaluated for #{@formatter.formatter_name}:
Ruby output: #{a(3)}"
---
yields:
Evaluated for latex: Ruby output: 6
```

10.15 Swallow, Skip

Swallow/Skip (= don't display) the text in this region. Process it nevertheless for possible side-effect – i.e., variables being set etc.

10.16 Table

This region takes some kind of text and transforms it into a table. Currently, only character/string separated tables are supported

Options:

sep the cell separator regexp (default: "\t")

Example 10.18: Create a table from tab-separated input

```
#Table sep=\\. caption=An example of an char separated table <<---
Foo.Bar
1.2
---
yields:</pre>
```

10.17 Verbatim

The verbatim region inserts text as seen on the screen. Arguments:

wrap=N The wrap margin

Example 10.19: Verbatim

```
#Verbatim wrap=10 <<---
Long long long long long long line
---
yields:
    Long long
    long line</pre>
```

10.18 Write

You have to set the "w" or "W" allow flag(see 4) in order to enable this region.

Write or append (append! option) an expanded template to a file.

If file is "-", the body will be printed on STDOUT.

Example 10.20: Write something to a file

```
#Write file=test.txt <<---
Foo {arg: myvar} bar.
---</pre>
```

11 Commands

deplate scans a text for line-elements and parses lines for text-particles. Commands are situated at the line-element-level, macros (see below) on the text-particle-level.

```
#COMMAND [OPTIONS]: ARGS
```

NOTE: It doesn't all work yet. It's a matter of trial and error to find out if deplate already supports a specific command. Most of this is untested and will fail or not work at all.

OPTIONS have the form:

- OPTION!
 - set option to true
- OPTION=VALUE
- the characters "!" and "=" have to be escaped with a backslash

Commands are applied only if the "fmt" and "if" options/conditions are met – see 14.6.

11.1 Getting or setting data about the document

#AUTHOR: TEXT define the document's author

- Synonym: #AU
- Each #AUTHOR command should take only one author
- Or separate authors like this:
 - AUTHOR1; AUTHOR2 ...
 - AUTHOR1 and AUTHOR2 ...
 - AUTHOR1 & AUTHOR2 ...
 - AUTHOR1/AUTHOR2 ...
- An author's name can have the form
 - FIRSTNAMES SURNAME
 - SURNAMES, FIRSTNAMES
- Alternatively, you can define the name as #AUTHOR firstname=FIRSTNAME surname=SURNAME note=
 - If you attach a note this way, you have to call $\tt\#AUTHORNOTE$ nevertheless in order to update the "authornote" clip

#AUTHORNOTE: TEXT define an author note

- Synonym: #AN
- The note should follow immediately the #AUTHOR command it is referring to

#CAPTION[!] [extended!] [above!|below!]: TEXT add a caption to the previous element

- Synonym: #CAP
- refers to the previous element
- can be attached to: Table, Figure, Heading
- By default, TEXT will be parsed with certain macros/particles disabled. With a bang "!" or the "extended!" option, the full set of rules will be applied. There is chance though, this results in invalid output in certain cases, which could be relevant if, e.g., the output format is DocBook.

#DATE: [TEXT|now|today|none] Define the document's creation date.

- Use none if you don't want to include a time stamp in the document's meta data.
- now is the default value.

#DEFCOUNTER id=NAME Define a new counter. Known arguments:

parent The parent list/and counter

- Has the format: NAME.LEVEL
- If no level is provided only the top numbering is used.
- If no parent is provided, the counter is "global".
- **#DEFLIST id=NAME** Define a new list and an associated counter. The lists can be printed using the #LIST command (possibly depending on the formatter). The standard lists, which should not be redefined, are:

toc Table of Contents

lot List of Tables

lof List of Figures

Custom lists may have the following attributes, which default to the list name:

counter The counter name

entity The name of the entities that are registered in the list

prefix The prefix used for labels

parent See #DEFCOUNTER.

#GET: ID or GET id=NAME Insert a clip at block/element level – see also 10.11.

- **#KEYWORDS**: **WORDS** Set the document's keywords. This really is the same as **#VAR** id=keywords: WORDS. Keywords should be separated by [;,] (preferably ";").
- **#LANG:** language Change the document's language. The language argument is the language identifier of the corresponding module, i.e., de for German, ru for Russian, zh-cn for Chinese and Chinese with automatic whitespace . . .

- Unless you load the language module from within the document or load more than one language module, there is no need to explicitly set the document's language.
- **#OPT: KEY=VALUE** Attach some metainformation to the previous element (see 14.4).
 - Synonyms: #PROP, #PP
- **#PUSH: KEY=VALUE** ... Basically the same as **#VAR** add=,: KEY=VALUE.
- **#REGISTER list=NAME: CAPTION** Register the previous element in list NAME, using an (optional) caption.
- **#SET id=NAME: TEXT** define a clip see also 10.11
- **#TITLE: TEXT** define the document's title; the same as **#VAR:** title=TEXT
 - Synonym: #TI
- **#VAL: NAME** retrieve an argument (used in DefRegion (p. 56))
 - The XVAL command is a variant of this and can be used to insert preformatted text.
 - See 12.1 for additional arguments.
- **#VAR: KEY=VALUE ...** define a document option (see 14.1)
 - Synonym: #DOC (for document variable/option)
 - You can also write: #VAR id=KEY: VALUE which is basically the same as the above form but you don't have to escape colons in the value string with a backslash.

11.2 Flow control, document management

- **#BEGIN: ID and END: ID** when reading from stdin (and when using the command line option --loop), you can use these two pseudo commands to fragment the input; if the first line matches **#BEGIN: ID**, the input will end at the line **#END: ID**
 - If you define the variable stdoutSeparator, its content will be added to each output document sent to stdout.
- #IF: TEST, ELSEIF: TEST, ELSE, ENDIF include the following lines only if TEST is okay
 - Operators: ==, !=, =~, !=~
 - The fmt variable is matched against the current formatter's name
 - A test is one of (VAR refers to a document option):
 - fmt==FORMAT
 - fmt!=FORMAT
 - fmt=~FORMAT
 - fmt!=~FORMAT
 - VAR, VAR! (i.e., VAR is set and non-null)
 - VAR==VALUE
 - VAR!=VALUE
 - VAR=~VALUE

- VAR!=~VALUE
- If ":" is set by the --allow command line option, you can access internal options by prepending the name with a colon (":"). See 1 for possible option names.

#INCLUDE: FILENAME textually include a file

- Synonym: #INC
- FILENAME is a relative file name
- The file is searched for in:
 - 1. ./deplate.rc/FORMATTER/
 - 2. ./deplate.rc/
 - 3. ./
 - 4. ~/.deplate/lib/FORMATTER/
 - 5. ~/.deplate/lib/
 - 6. ~/.deplate/
 - 7. DATADIR/deplate/lib/FORMATTER/
 - 8. DATADIR/deplate/lib/
 - 9. RUBYLIB/deplate/lib/FORMATTER/
 - 10. RUBYLIB/deplate/lib/
- Arguments:
 - file=FILENAME Alternatively you can use the file argument. If an explicit file argument and an anonymous argument are given, the explicit one overrides the anonymous one.
 - var=VARNAME You can also "include" the contents of a variable.
 - inputFormat=INPUTFILTER (experimental) Set the input filter (see 6) for the included file.
 - **\$embeddedTextRx=REGEXP** Transfor the included text using this regular expression. This could be useful when including source files. **embeddedVerbatim** can be used to define what type of region should be used for formatting other text.
 - **\$embeddedVerbatim=REGIONNAME** When using embeddedTextRx, use this region for formatting non-embedded text (e.g., Code)
 - **\$codeSyntax=SYNTAX** Temporarily set the codeSyntax variable when using embeddedVerbatim
 - any other argument prepended with \$ will be used to temporarily set the variable of the same name.
- Variables:
 - You can also set variables in includeVars (a hash) that will be passed on to the command as if provided on the command line.

#MODULE: NAME require a module

• Synonym: #MOD

#WITH file=FILE: REGION HEADER create a region with input from file

11.3 Bibliography

#BIB: FILENAME a filename of a BibTeX database

#MAKEBIB: [BIBSTYLE] insert a formatted biblography

- If the BIBSTYLE argument is missing, the bibStyle variable will be used. If the bibStyle variable doesn't exist, it will be set to the BIBSTYLE argument.
- In html mode, MAKEBIB works directly on the bibtex file. The main reason for this that it is easier to parse the bibtex file than to deal with the variety of bibtex-related styles and packages. Due to my simple-minded approach to parsing, MAKEBIB sometimes failes on some records and it doesn't cope well with entries other than books.
 - The html formatter stubbornly uses some kind of APA-based style.

11.4 Abbreviations, index

#ABBREV [native!|ins!|plain!] **DEFINITION: FULL TEXT** replace an abbreviation (defined as a word, a backtick symbol, or a regular expession) with the full title

- DEFINITION can be one of
 - symbol=SYMBOL ... a symbol will preceded by a backtick, i.e. if SYMBOL is Sigma, then the abbreviation matches 'Sigma
 - word=WORD ... the WORD is surrounded by matches for word boundaries
 - rx=REGEXP
- if the option plain! is given, the full text won't be parsed
- if the options native! or ins! is given, the full text will be inserted as is

#IDX: INDEX_ENTRY|**SPELLINGS...; OTHER_ENTRY** add an index entry; use "|" to mark alternative spellings when using autoindexing; separate different entries with a semi-colon

- If autoindexing isn't switched off, you have to use this command only once to indicate that a certain word should be added to the index; all occurences downwards will be indexed automatically
- You can mark a word for autoindexing without inserting an index at the current position
 with the #AUTOIDX command

 $\begin{tabular}{ll} \textbf{AUTOIDX: INDEX_ENTRY} | \textbf{SPELLINGS...; OTHER_ENTRY} & this can help avoiding certain problems with docbook output \\ \end{tabular}$

• Use the following commands to selectively disable the automatically generation of an index

NOIDX: INDEX_ENTRY|SPELLINGS...; OTHER_ENTRY remove the *last* matching (auto)index entries

DONTIDX: INDEX_ENTRY|SPELLINGS...; OTHER_ENTRY avoid the *next* automatically generated index to be recorded

11.5 Dynamic text, elements

#IMG [here!|top!|bottom!] [noGuess!] [bw=N|bh=N|w=N|h=N]: FILENAME insert an image from a file

- Synonyms: #IMAGE, #FIG, #FIGURE
- Other options (depends on the formatter):

w=LENGTH, width=LENGTH Image width

h=LENGTH, height=LENGTH Image height

noGuess! Usually deplate ignores any suffix and test the filename against a list of suffixes that supposedly work for the gived output format. Use this option to keep deplate from trying to be smart.

• for LaTeX output there are some extra arguments:

rotate=ANGLE Rotate the image

bw, bh define the bounding box in latex

#LIST page! min=N max=N top=PREFIX sub!: [contents|toc|minitoc|tables|figures|index]

insert a table of [contents|tables|figures] or the index; the output depends on the formatter

- The LIST: index command should be placed in the last of the included files so that all indexes are defined.
- toc is a synonym for contents
- minitoc display the top headings only and uses the shortcaption argument if provided (in html output only)

page! Display the table/list on a new page

min=N List only elements with a level greater or equal N (HTML only)

max=N List only elements with a level less or equal N (HTML only)

sub! List only elements under the current heading (HTML only)

top=PREFIX List only elements the numbering of which begins with PREFIX (HTML only)

levels=MIN..MAX, MIN.., ..MAX Same as min and max

#MAKETITLE [page!] insert a title or titlepage

page! Create a title page (if supported by the output format). For LaTeX output, this adds "titlepage" to classOptions. If you use the #VAR command to set classOptions after the #MAKETITLE command, the variable will be reset. You could use #PUSH instead.

#PAGE start a new page

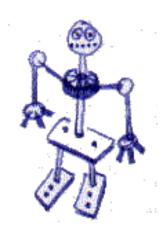
#TABLE: FILE read a table from FILE – takes the same options as the table region (see 10.16)

The commands TITLE, AUTHOR, AUTHORNOTE, and DATE define clips of the same name in lower cases (see the get macro for an example 12.1).

Example 11.1: Commands

```
#VAR: myvar=foo
#PUSH: myvar=bar
After: myvar={arg: myvar}
#IMG center! bw=110 bh=162: linked
#OPT fmt=latex: w=4cm
#CAP: A nice drawing
#SET id=foo: bar
Test SET: {get: foo}.
#IF: fmt==latex
This is in latex.
#ELSEIF: fmt=~^html
This is in html.
#ELSE
This is interesting.
#ENDIF
The file "calculations.txt" contains: 1 + 1. Let's see what R has to say
about this:
#WITH file=calculations.txt: R id=r_calculations: verb
#ABBREV sym=Sigma fmt=html ins!: Σ
#ABBREV sym=Sigma fmt=dbk if=noSgml ins!: Σ
#ABBREV sym=Sigma fmt=dbk if=sgml ins!: Σ
#ABBREV sym=Sigma fmt=latex ins!: $\Sigma$
The greek letter 'Sigma is called sigma.
#DEFLIST list=books title=Some Books parent=toc.1
#LIST: books
#DefElement id=books: ^BOOK:\s+(.*) <<--</pre>
{counter: books} {arg escapebackslash=2: 1}
\#OPT: style=book
\#REGISTER list=books name={arg escapebackslash=4 escape="!=:": 1}
#Native fmt=html type=pre slot=css <<--
<style type="text/css">
<!--
div.book {
  margin-left: 40px;
  border-left: 5px solid #999999;
}
-->
</style>
BOOK: Max Frisch: Stiller
BOOK: William Shakespeare: Much Ado About Nothing
BOOK: Don \DeLillo: The Body Artist
  yields:
     After: myvar=foo,bar
     Test SET: bar.
     This is in latex.
```

Figure 4: A nice drawing



The file "calculations.txt" contains: 1 + 1. Let's see what R has to say about this:

[1] 2

The greek letter Σ is called sigma.

Some Books

- 11.1 Max Frisch
- 11.2 William Shakespeare
- 11.3 Don DeLillo
- 11.1 Max Frisch: Stiller
- 11.2 William Shakespeare: Much Ado About Nothing
- 11.3 Don DeLillo: The Body Artist

12 Macros

Curly braces should be escaped with a backslash (i.e., $\{$ and $\}$), as they usually mark macros:

{COMMAND [OPTIONS]: ARGS...}

NOTE: Macros cannot cross paragraph boundaries, i.e., they must not contain empty lines. Using newlines in a macro argument is useless, as the macro text will be collapsed to one single line.

NOTE: These aren't macros in the sense of read-time expansions/replacements. They are called macros here because the (original) term commands is now used for #CMD type of commands only.

NOTE: If the macro name is unknown, a clip or a variable will be used instead. The order is: macros > clips > variables.

NOTE: Some macros parse their arguments, which then can contain other macros – e.g., list and item. "Parsing" is done with a simple nested regular expression. This appears to work quite well but could yield unintended results in some situations. The maximum of nested macros currently

is 5 (which should really enough due to the primitivity of the macro language). If you want more (e.g., 10), add this to your config file:

Deplate::Particle::Macro.build_rx(10)

Example 12.1: Macro written in Ruby

```
#Ruby context=ruby <<--
class Deplate::Macro::Test < Deplate::Macro</pre>
    register_as 'test'
    def setup(text)
        @elt = @deplate.parse(@container, '<' + text + '>')
    end
end
Bla {test: [1
        {test: 2
            {test: 3
                 {test: 4}
        }
        inner bla
        {test: a
            {test: b
                 {test: c
                     {test: d}
                 }
            }
        }]
    }
Bla
  yields:
```

Bla < [1 < 2 < 3 < 4>>> inner bla < a < b < c < d>>>>]> Bla

NOTE: You could run into problems if an macro argument contains unbalanced curly braces. It should work by preceding them with a backslash, but . . .

12.1 Getting or setting data about the document

Attributes: {attrib: KEY=VALUE ...} Change the previous particle's (inline element) attributes; this command does on a text level what #OPT does for block elements

Clips, variables: {get [default=TEXT]: ID}, {get id=ID [default=TEXT]} see also 10.11; access "clips", e.g. the document's author: {get: author}

Counters: {counter [depth=N] [delta=N]: NAME} access a counter; see 11.5 for an example

Element properties: {eprop ...} Set the container element's properties (as if using the #PROP command).

Document variables: {var: ID} access document variable. See also the comments below on the arg macro. The difference between var and arg is that the var macro returns a value in a format can read.

Element options: {opt: ID} access element (paragraph, table etc.) options

Retrieving variables: {arg: NAME} Retrieve an argument (used in DefRegion (p. 56) or similar)

- Variables can also be accessed as in {varname} which will expand to {arg: varname}. {varname!} will expand to {var: varname}. Thus, {varname capitalize!} is equivalent to {arg capitalize!: varname}.
- The xarg macro is a variant of this that can be used to retrieve preformatted text.
- Synonyms: val, xval
- If the . allow flag is set, the NAME may have the form NAME [METHOD] to send methods to an object.
- Options:

join=SEPARATOR Join the values of strings and hashes

values! keys! Return a hashes values of strings

sub=/pattern/replacement/ Replace a pattern (the '/' is an arbitrary separator in this example; this can be any character)

tr=/pattern/replacement/ Character translation

upcase! Put the text in upper case letters

downcase Put the text in lower case letters

capitalize! Capitalize the text

escape="CHARACTERS" Escape some characters with a backslash

escapebackslash! Escape backslashes with a backslash

• The execution order of the text transformations arguments is fixed: sub > tr > upcase > downcase > capitalize

Localized messages: {msg: TEXT} Insert a localized message (can be used in templates).

12.2 References, labels, index

Anchors: {anchor: NAME} Inserts an anchor at this very position; this should only used in inline position within a list item, a paragraph etc. It should be also used within lists or similar compound elements.

• Synonyms: label, lab

Comments: {cmt: TEXT} insert an empty string

Index: {idx: NAME} Inserts an index at this very position; this should only used in inline position within a list item, a paragraph etc. It should be also used within lists or similar compound elements.

Reference: {ref [prefix=TEXT] [p!]: ANCHOR} insert a reference to an anchor

p Reference to page

prefix Prepend this text to the reference (default: non-breaking space)

12.3 Bibliography

- Citation: {cite [p=PAGE] [n=NOTE] [np!] [y!]: ID1[;ID2...]} output depends on the formatter
 - **np** No parentheses
 - **y** Year only
 - **p** The page number
 - **n** A note to be inserted before the citation (but within the parentheses)

12.4 Textstyles

Code: {code: CODE} or {'CODE}, or {verb: CODE} the same as ''CODE''

Emphasized text: {_**TEXT**} or {em: **TEXT**} or {emph: **TEXT**} emphasized text (the same as __TEXT__)

Plain text: {plain: UNPARSED TEXT} or {\UNPARSED TEXT} insert the text without intepreting deplate markup

Subscript: {sub: TEXT} or {,TEXT} Put TEXT in subscript

Superscript: {super: TEXT} or {sup: TEXT} or {^TEXT} Put TEXT in superscript

Stacked: {stacked:{:SUPER}{:SUB}}} or {%{:SUPER}{:SUB}} Print SUPER on top of SUB (the HTML formatter uses css inline tables, which are displayed as expected with Firefox/Mozilla)

Text: {text: TEXT} or {:TEXT} Parsed TEXT. This macro can also be used to attach a style to some inline text.

Mark 1st occurrence: {~text} {mark1st: text} Mark TEXT, when the text is inserted for the first time. If the variable mark1stStyle is defined, this style will be used. Otherwise, the string's first occurrence will be printed in upper case letters. Arguments

text=TEXT Text used for lookup

alt=STYLE Mark other occurrences with this style

always!, anyway! Always mark as 1st occurrence, even if it isn't.

Case: {downcase: TEXT} {upcase: TEXT} {capitalize: TEXT} Change TEXT's case

12.5 Dynamic text, particles

Date: {date: [format string|now|time|today|month|year]} the format string uses ruby's strftime method.

Footnote: (fn: ID) or **(fn id=ID: TEXT)** The first form refers to a footnote defined by a Fn or Footnote region. The second form defines the footnote inline. The output depends on the formatter. The footnotes generated by the html formatter are compatible with OpenOffice.

Images: {img [IMG arguments]: FILE} insert an image; takes the same options as IMG (see 11.5)

Inline LaTeX: {Itx id=ID [other Inlatex options]: LATEX CODE} Insert small pieces of latex code.

• See also 10.8.

Pagenumber: {pagenumber [hd!]: [TEXT]} Returns the current page number. The result depends on the formatter. TEXT is appended to the pagenumber if the result is non-empty.

HTML Insert nothing

LaTeX Insert \thepage if the macro isn't used in a header region (the optional hd! argument)

LaTeX + koma Insert \pagemark

Small lists: {list type=[ol|ul|dl]: ITEMS} A convenience macro for inlining small lists into other elements. Items can defined with the following two macros:

• {item: TEXT}

• {term id=TERM: TEXT}

Native text: {ins: LITERALLY INSERTED TEXT} e.g., {ins fmt=html: <<}

Mathematical text: {math [block!]: LATEX FORMULA} insert a small mathematical expression in latex syntax

- Synonyms: \$
- If the block! argument is supplied, the formula is wrapped in \[formula\] instead of \$formula\$.
- See also 8.2.14 and 10.8.
- You can set the variable mathPrelude in order to prepend some LaTeX code to all mathematical formulaes

Newline: {nl} start a new line

Ruby code: {ruby [context=CONTEXT] [alt=ALTERNATE OUTPUT]: RUBY CODE}
if the evaluation of ruby code is disabled, the text given in the alt option or an empty
string will be inserted

- a sequence of ruby commands must be separated by semicolons
- for the CONTEXT argument please see 10.14

Example 12.2: Macros

```
Foo is foo (see also{ref: bar}).
Citation:
#BIB: deplate.bib
Mynona's{cite y! n=e.g.,: mynona:p1} real name was Salomo Friedlaender.
% You can find the bibliography down below. The command is commented out
\% in order not to confuse nervous docbook tools.
% #MAKEBIB plain!: cbib-apa-1
Comments:
This line{cmt: here} contains a comment.
Date:
{date: today}
Ruby:
{ruby alt=ruby disabled: 1 + 1}
An inline {img rotate=90 h=40: linked} image (which is rotated in LaTeX
output).
LaTeX:
Test (\{ltx: \sum_{i=n}^{n} x_{i}\}\) the ltx macro.
Text formatting:
Foo{,bar & bar} is foo, but bar{^foo & foo} is bar.
Foo {\__with__} or {plain: ''without''} bar.
{~Tom} says: "My name is {~Tom}."
{upcase: Foo bar}, {downcase: Foo bar}, {capitalize: Foo bar}.
x\{\{:2\}\{:a\}\} = 1
#IF: fmt!=latex
Small lists (this example doesn't work in latex):
| {list: {item: foo} {item: bar}} \
| {list type=dl: {term id=Foo: Foo is foo} {term id=Bar: Bar is bar}} \
| {list: {item: here} {item: there}} \
| {list type=dl: {term id=Here: Here is here} {term id=There: There is there}} \
#ENDIF
If you allow ".", you can could do something like this: This is the
paragraph with the id ''testParagraph1''.
#OPT: id=testParagraph1
The element with id=testParagraph1 is a {let t=object(id=testParagraph1):
{arg asString!: t.class}}.
#VAR: varname=Lala
#CLIP id=theSinger: __Maestro__ Maximo
{varname} is foo. {arg: varname} is foo.
{varname!} is bar. {var: varname} is bar.
```

{theSinger} sings {varname!}.

yields:

Footnotes: Foo bar¹ foo bar.

Reference: Bar is bar.

Foo is foo (see also 12.5).

Citation: Mynona's (e.g., 1980) real name was Salomo Friedlaender.

Comments: This line contains a comment.

Date: 10. Jul 2008

Ruby: 2

Image: An inline image (which is rotated in LaTeX output).

LaTeX: Test $(\sum_{i=n}^{n} x_i)$ the ltx macro.

Text formatting: Foobar&bar is foo, but bar^{foo&foo} is bar. Foo __with__ or "without" bar.

TOM says: "My name is Tom."

FOO BAR, foo bar, Foo bar.

 $x_a^2 = 1$

If you allow ".", you can could do something like this: This is the paragraph with the id testParagraph1.

The element with id=testParagraph1 is a Deplate::Element::Paragraph.

Lala is foo. Lala is foo.

"Lala" is bar. "Lala" is bar.

Maestro Maximo sings "Lala".

13 Skeletons

Skeletons look a lot like macros (e.g. {{foo}}) and they behave very much like included documents (using the #INC command), but they are expanded before actually parsing the input, i.e. they provide some kind of pre-processor macro expansion facility.

I order to use a skeleton you have to create a file

• deplate.rc/lib/NAME

or (this one will be preferred if it exists)

• deplate.rc/lib/FORMATTER/NAME

and enable the skeleton on the command line by using the --skeleton command line option. Some skeletons (currently only one) are "special", i.e. not file based but are processed by Deplate::SkeletonExpander#skeleton_#{SPECIAL}(args), where args is a hash:

¹Ceci n'est pas une note.

{{id: NAME}} This skeleton inserts hopefully unique ID strings that can be used in templates for defining regions.

Skeleton are expanded in place. I.e. the first line of the expansion text is inserted right where the skeleton marker appears in the text. If the expansion begins with an element (a command, a region etc.), the first character in the file should be a newline.

Skeletons are handled like templates (see 5.5.2). This means:

Example 13.1: Skeletons (1)

Bla bla.

- All macros and commands available in templates can be used.
- In certain situations, commands and regions that are valid within templates thus have to be preceded with a backslash in certain conditions in order to avoid premature expansion.

```
deplate.rc/skeletons/foo:
{arg: which} foo is {arg: @body}.
  Input:
Bla bla. {{foo which=This: bar}} Bla bla.
  vields:
     Bla bla. This foo is bar. Bla bla.
  Example 13.2: Skeletons (2)
  deplate.rc/skeletons/bar.html:
\#Native <<{{id: bar.form}}
<form action="" method="get">
Name:
<input name="name" type="text" size="30" maxlength="30" value="{arg: name}"/>
<button name="submit" value="1" type="submit">Send</button>
</form>
{{id: bar.form}}
  deplate.rc/skeletons/bar:
   Name :: {arg: name}
  Input:
Bla bla.
{{bar name=Io mio}}
Bla bla.
  yields:
     Bla bla.
     Name Io mio
```

14 Variables and options

14.1 Document variables

Basically, there are two ways to set a variable:

- 1. The #VAR command
- 2. In the deplate in file

User variables that have no special meaning should begin with an underscore. In restricted input mode, setting variables not beginning with an underscore is disabled.

Variables with all upper-case letter names should be considered as read-only variables. These are set by deplate and are not meant to be modified by the user.

Please see 14.6 to find out how to set variables for specific output formats only or depending on another variable's value.

Example 14.1: Defining variables

Define a baseUrl but only when generating multi-file html output:

```
#VAR fmt=~html(site|slides): baseUrl=http://deplate.sourceforge.net/ baseUrlStripDir=1
```

Define some stuff that should go to the html css section:

14.1.1 Pre-defined variables

env The environment variables (HASH)

The following list mentions most variables that can be used to fine-tune some aspect of deplate's behaviour. Please see 4, 5.3 or 11.1 to see how to set these variables.

14.1.2 General

```
authorSep A string used to concatenate author names in some occasions (STRING, default: ;)
```

autoindex Enable automatically adding entries to index (BOOLEAN, default: false)

autoBaseName In multi-file output, deduce the output filename from the current input file (BOOLEAN, default: false)

autoFileNames Enable automatic generation of file names based on the top heading for multi-file output (BOOLEAN, default: false)

auxiliaryDir If defined, auxiliary files will be put into this subdirectory (STRING)

auxiliaryDirSuffix If defined, auxiliary files will be put into a subdirectory named after the base name of the root file plus this suffix (STRING)

bibClickableCitation Whether citations (eg in HTML output) are clickable hyperlinks (BOOLEAN, default=false)

bibStyle Default bibliography style (STRING)

bibSepAuthors The separator for author names (STRING, default="; ")

bibSepLastAuthor The separator for the last author name (STRING, default="; ")

bibSepTwoAuthors The separator between two author names (STRING, default="; ")

bibSepName The separator between prename and surname (STRING, default=", ")

class The document class; used in LaTeX (= document class) or HTML output (= CSS) (STRING)

codeLineNumbers Display line numbers (BOOLEAN, default: false)

codeStyle The default style used for formatting code regions; depends on the backend (STRING)

codeSyntax The default syntax for #Code regions (STRING)

commentsShow Display comments in the output (BOOLEAN = any comment or STRING = comments with this prefix/marker)

description A short description of the document (STRING)

docBasename The base name of the output document (STRING)

efilter Include only elements in the output that are tagged with one of these tags. any matched untagged elements. (COMMA-SEPARATED LIST)

elementStyle If set to 'block', the markup of styles changes. For LaTeX output, this make deplate use regions. You can set this for single elements too. (STRING)

embeddedTextRx A regular expression matching embedded text (submatch \$1) (REGULAR EX-PRESSION)

embeddedVerbatim The region name that will be used for text not matching embeddedTextRx (STRING, default: Verbatim)

encoding The default encoding; dependent on the output format (STRING)

HTML ISO-8859-1

LaTeX latin1

XML UTF-8

• In order to set the encoding do: #VAR: encoding=utf-8

• To set the encoding for HTML output only: #VAR fmt=html: encoding=utf-8

figureNumbering How figures should be numbered (STRING)

flat, document One counter for all figures

none No numbering

section (DEFAULT) Per section

floatAlign The default alignment of floats; dependent on the output format (STRING)

headings The headings style (STRING)

plain Don't number headings

homeIndex The heading index that should be the home page in multi-file output (INTEGER; default: 0)

hyperHeading If set and a heading has an url option attached, turn the heading into a hyperlink; if set to "full", then heading is used as link text, which may result in invalid output; otherwise a button is attached to the heading (BOOLEAN or STRING)

hyperHeadingButton The text for hyperlinked headings (STRING; default: \Rightarrow)

imgSfx The default suffix for images (STRING, default: png)

includeVars The variables to be used for #INC commands (HASH)

indexwiki If "no", don't autoindex extended wiki links (STRING)

• <+TBD+>This will be subject of change

inlatexPrelude A string or array of strings that will be prepended to each inline LaTeX snippet

inlatexHeight, inlineLatexHeight Define the h parameter of images generated by an inline LaTeX snippet (NUMBER)

itemizeMarkers The markers for itemize lists (currently only used for plain text output) (COMMA-SEPARATED LIST)

ItxPointsize The pointsize used for LaTeX snippets; this can be overridden by a per-element 'point-size' argument; see also ps2imgRes (p. 88) (NUMBER, default: 10)

ltxSfx The suffix of images generated by an inline LaTeX snippet (STRING, default: dependent on the output format)

keywords The keyword to categorize the document; either an array of strings or a list separated by semi-colons

levelshift Shift heading levels (NUMBER)

ItxPrelude Like inlatexPrelude but used for the ltx macro only

mandatory ID If set, elements that create auxiliary files must have an ID (BOOLEAN)

mark1stStyle If set, use the style to markup the mark1st macro (STRING)

mathPrelude Like inlatexPrelude but used for the math macro only

noExplicitNumbering Ignore the explicit numbering in lists (BOOLEAN)

particleStyle If set to 'span', the markup of styles changes. For LaTeX output, this make deplate use proper commands. You can set this for single particles too. (STRING)

pfilter Include only particles in the output that are tagged with one of these tags. **any** matched untagged particles. (COMMA-SEPARATED LIST)

prefixID Prefix autogenerated names for auxiliary files with this string; if not defined, use the current document's base name (STRING)

ps2imgRes The resolution used for converting postscript files to bitmaps, e.g., by ps2ppm (NUM-BER, default: 120)

refButton String to be used to represent the wiki references (STRING)

rPrelude Like inlatexPrelude but used for Img regions of type R

rScanTable If non-nil, guess column breaks in R tables (BOOLEAN)

stdoutSeparator A string printed after each output unit when using multi-file output and when redirecting the output to STDOUT (STRING)

styledTags If set, tags will automatically style an element with style "TAG# $\{tagname\}$ " (BOOLEAN)

suffix The suffix to be used when guessing target names referenced by wiki names (STRING)

• <+TBD+>This will be subject of change

tableNumbering How tables should be numbered (STRING)

flat, document One counter for all figures

none No numbering

section (DEFAULT) Per section

tableStyle The default style for tables (STRING)

tabwidth The tab width used when expanding whitespace (NUMBER, default: 4)

tag Tag all elements with these tags (COMMA-SEPARATED LIST)

template The default template for the output (STRING)

template_version Which template engine to use (NUMBER, default: 2)

useParentSuffix When referring to other files, use the source file's suffix as fallback strategy (BOOL, default; false)

verbatimMargin Wrap verbatim regions at this width (NUMBER)

wrapMargin Wrap margin; set to 0 to prevent text wrap (NUMBER, default: 72)

14.1.3 Output Format

HTML

baseUrl The document's base url (STRING)

baseUrlStripDir Number of directories to remove when adding a file name to baseUrl (NUMBER)

bodyOptions The arguments passed to the body tag (STRING)

css The document's CSS file(s) (COMMA-SEPARATED LIST)

• The output media can be defined in the form: CSS|MEDIA

cssExtra Some extra text to be inserted at css position (STRING or ARRAY OF STRINGS)

cssInclude Include the contents of the CSS file in the HTML output (BOOLEAN)

docNavbar If true, display a navigation bar (BOOLEAN)

explorerHack Code to deal with browser-specific stuff; inserted at head position (STRING or ARRAY OF STRINGS)

headExtra Other HTML code to be inserted at head position (STRING or ARRAY OF STRINGS)

homeButton The "home" button in the navigation bar (STRING, default: [-])

htmlAuxUrl, htmlCssUrl, htmlImgUrl Format string that defines the URLs for images, CSS etc. (STRING)

metaDataExtra Other HTML code to be inserted at head position (STRING or ARRAY OF STRINGS)

newsFeed An array of strings defining news feeds for the current site. (STRING or ARRAY OF STRINGS)

- Entry format (please enclose the arguments in quotations marks):
 - rss=''URL'' title=''Title''
 - atom=''URL'' title=''Title''
 - href=''URL'' title=''Title'' (defaults to rss)
 - type=rss href=""URL" title="Title"
 - type=atom href=''URL'' title=''Title''

nextButton The "next" button in the navigation bar (STRING, default: >>)

nextKey The keycode for jumping to the next page (NUMBER, default: 16)

noBindKeys If true, don't bind keys for jumping to the previous or next page (BOOLEAN, default: false)

noGenerator If true, don't add a generator tag (BOOLEAN, default: false)

noNavMenu If true, don't add a menu to the navigation bar (BOOLEAN, default: false)

noSwallow If true, don't swallow paragraphs in html-slides output format (BOOLEAN, default: false)

noTabBarButtons If true, don't add buttons to the navigation bar (BOOLEAN, default: false)

pagelcon The page icon tag (STRING)

prevButton The "previous" button in the navigation bar (STRING, default: <<)

prevKey The keycode for jumping to the previous page (NUMBER, default: 8)

shortcuticon The shortcut icon tag (STRING)

stepwiseDisplay Whether to display a page step by step (BOOLEAN, default: false)

stepwiseBegin Number of initially visible elements (INTEGER, default: 1)

stepwiseContinuous Automatically move to the next page if all elements are displayed. If the value is **confirm** the user will be queried before moving to the next page. (MIXED, default: false)

stepwiseKey Key code for revealing the next element (COMMA-SEPARATED LIST; default: 34 = 'PageDn')

styleExtra Some extra CSS information that will be wrapped in a style tag (STRING or ARRAY OF STRINGS)

subToC Print a table of contents for the current section after top level headings (BOOLEAN, default: false)

tabBar Items in the navigation bar (ARRAY OF STRINGS, default: ["[auto]"])

tabBarButtons If true, don't add buttons to the navigation bar (BOOLEAN, default: true)

• <+TBD+>Conflict with noTabBarButtons?

tabEqualWidths If true, tabs will have equal width (BOOLEAN, default: false)

tabBarHomeName The display name of the front page in the navigation bar (STRING, default: <+TBD+>)

tabBarSep The separater between display names and URLs in manual defintions of the navigation bar (STRING, default: |)

tableWidth The default table width

useDublinCore If true, use Dublin core tags instead of the standard meta tags (BOOLEAN, default: false)

LaTeX

bookClass Classes that use a \chapter{} command (COMMA-SEPARATED LIST or BOOLEAN)

classOptions Options passed on to the document class (COMMA-SEPARATED LIST)

typeareaDIV, DIV (koma) If set, use KOMA script's typearea package; use this variable to define the proportion of the printed area on a page; see the KOMA script manual for details (NUMBER)

typeareaDIV_, DIV_ (koma) Same as the above but the parameter is set as a document class option.

floatHere If true, add a h flag to floats (BOOLEAN, default: false)

linespread If set, define the linespread parameter (NUMBER)

noteSize The font size for margin notes (NUMBER, default: footnotesize)

texLists If set to wide, the generated source will contain more linebreaks. Otherwise the lines will be more condensed.

useBooktabs If true, use the booktabs package (BOOLEAN, default: false)

Docbook

copyrightYear The year field in the copyright section (STRING)

dbkEntities Entities to be added to the doctype tag (ARRAY OF STRINGS)

dbkVersion The docbook version to use (STRING, default: 4.2)

manvol The manual volume to use for dbk-ref output (NUMBER, default: 1)

refentry The reference category used by for dbk-ref output (STRING)

sgml If true, try to be SGML compliant; useful when using tools like openjade (BOOLEAN, default: false)

tableFrame The frame parameter for tables (STRING, default: topbot)

Plain Text

asciiArt Use jave to convert images to ascii representations; possible values: currently only jave (STRING, default: jave)

imgAlt Fallback display name for images (STRING)

14.1.4 Module

Anyword

anyword_catalog A catalog file containing automatically linked words (STRING)

anyword_list A comma-separated list of automatically linked words (STRING)

anyword_pattern A glob pattern for file names in the current directory the base names of which will be added to the list of automatically linked words (STRING)

anyword_suffix The suffix to use when scanning the directory using anyword_pattern (STRING)

CJK

cjk_encoding The default encoding (STRING, default: GB)

cjk_family The default font family (STRING, default: gbsn)

noSmartBlanks If true, guess whether a whitespace should go into the output (BOOLEAN, default: false)

entities

entities List of entities names (COMMA-SEPARATED LIST, default: general)

html-headings-navbar

headingsNavbarMaxLevel Add heading up to this level to the navigation bar (NUMBER)

html-sidebar Deprecated module.

mouseThresholdIn (NUMBER)

mouseThresholdOut (NUMBER)

navGif (STRING)

latex-verbatim-small

verbSize Font size for verbatim regions (NUMBER, default: footnotesize)

Mark External URLs

mailtolcon The file name of the e-mail icon (STRING, default: mailto.png)

urllcon The file name of the external URL icon (STRING, default: url.png)

markerInFrontOfURL Put the icon in front of the URL (BOOLEAN, default: false)

navbar-png

buttonsColour The subtype of the button images

buttonsFileFormat The image suffix (STRING, default: png)

buttonsHighlight Use a rollover effect (BOOLEAN, default: false)

Obfuscate E-Mail

noObfuscatedNoscript If true, put only the name into the noscript tag (BOOLEAN, default: false)

obfuscatedNoscriptAt How to display the @ sign in the noscript region (STRING, default: AT)

obfuscatedNoscriptDot How to display periods in the noscript region (STRING, default: DOT)

pstoedit

pstoeditArgs Additional command line arguments (STRING)

Smileys

smileySfx The suffix for smiley image files (STRING, default: png)

validate-html

noCssValid If true, don't add a button for CSS validation (BOOLEAN, default: false)

noHtmlValid If true, don't add a button for HTML validation (BOOLEAN, default: false)

XMLRPC

xmlrpcAllow A comma-separated list of valid IP addresses of regular expressions matching valid addresses

xmlrpcPath The path for accessing this xmlrpc server (STRING, default: /deplate)

xmlrpcPort The xmlrpc server port (NUMBER, default: 2000)

xmlrpcReuseInterpreter If non-nil, reuse the converter as if the requests were part of one big document (BOOLEAN, default: nil)

14.1.5 Legacy

legacyDefine1 Make #Define type of regions behave as in version up to 0.8 (alternatively, you can pass a noTemplate! argument to the region)

legacyFor1:: Make #For behave as in version up to 0.8 (alternatively, you can pass a noTemplate! argument to the region)

14.2 Strings, booleans, arrays, and hashes

A variable can be either a string, a boolean, an array, or a hash. The type is defined by the way how it is defined.

Using booleans actually makes only sense in conjunction with if clauses as, in other situations, the value will be represented as the strings "true"/"false".

String:

#VAR: var=value

Boolean:

#VAR: var!
#VAR: noVar!
#VAR: var=true
#VAR: var=false

Array:

```
#Var: id=var <<---
Value 1
Value 2
#VAR: var[]=value1
#VAR: var[]=value2
  Hash:
#VAR: var[field1]=value1
#VAR: var[field2]=value2
  The values can be retrieved using the var or val macro.
  Example 14.2: Variable types
#VAR: stringVar=Foo
#VAR: boolVar1!
#VAR: noBoolVar2!
#VAR: boolVar3=true
#VAR: boolVar4=false
#VAR: isNoBoolVar1=\true
#VAR: isNoBoolVar2=\false
#Var id=arrayVar1 <<---
Foo
Bar
#VAR: arrayVar2[]=foo
#VAR: arrayVar2[]=bar
#VAR: hashVar[field1]=Foo
#VAR: hashVar[field2]=Bar
| {stringVar!} |
                                                    | {boolVar1!} |
                                                   | {boolVar2!} |
                                                   | {boolVar3!} |
                                                   | {boolVar4!} |
                                                | {isNoBoolVar1!} (this is a string) |
| isNoBoolVar1 = | {val: isNoBoolVar1}
| isNoBoolVar2 = | {val: isNoBoolVar2}
                                                   | {isNoBoolVar2!} (this is a string) |
                | {val: arrayVar1}
| arrayVar1 =
                                                   | {arrayVar1!} |
                 | {val join=", ": arrayVar2} | {arrayVar2!} | 
| {val join=", " values!: hashVar} | {hashVar!} |
| arrayVar2 =
| hashVar =
| arrayVar1[0] =
                 | {val: arrayVar1[0]} | {arrayVar1[0]!} |
```

yields:

| arrayVar2[1] =

| {val: arrayVar2[1]}

| hashVar[field1] = | {val: hashVar[field1]}

| {arrayVar2[1]!} |

| {hashVar[field1]!} |

```
"Foo"
stringVar =
                   Foo
boolVar1 =
                                     true
                   true
boolVar2 =
                   false
                                    false
boolVar3 =
                                    true
                   true
boolVar4 =
                                    false
                   false
isNoBoolVar1 =
                   true
                                     "true" (this is a string)
                                     "false" (this is a string)
isNoBoolVar2 =
                   false
arrayVar1 =
                    ["Foo", "Bar"]
                                     ["Foo", "Bar"]
arrayVar2 =
                   foo, bar
                                     ["foo", "bar"]
                                     {"field1"=>"Foo", "field2"=>"Bar"}
hashVar =
                   Foo, Bar
arrayVar1[0] =
                   Foo
                                     "Foo"
arrayVar2[1] =
                                     "bar"
                   bar
hashVar[field1] =
                                     "Foo"
                   Foo
```

14.3 Template "services"

Some option names have a special meaning in that the content is dynamically generated. Most of them are specific to some output format.

"Services" are meant to generate small, atomic data. Calling a "service" can be distinguished from accessing a variable by adding braces at the end of the service name – which makes it look like a function call in many programming language, which could lead to the question, why I didn't call it template functions but ... heck.

"Services" are provided by the formatter. I.e. they are some kind of formatter specific commands that can be used in templates.

You can use camel case names and underscores according to your liking. someService and some_service do the same thing.

Syntax:

```
serviceName()
serviceName(KEY1=VALUE KEY2! ...)
```

Standard services:

• html

navigation_bar Returns a simple navigation bar with a menu and formard/backward buttons (see 8.5.3).

• html-slides

tabBarLeft, tabBarRight, tabBarTop, tabBarBottom returns a tab bar with the table of contents

```
progressPercent insert the progress as a numeric value
```

progressBar, progressBarHorizontal, progressBarVertical returns a simple progress bar

These services are most useful for designing templates. The following example contains the template for the HTML online documentation.

Example 14.3: Templates #PREMATTER

```
<div id="tabBar" class="tabBar">
   #ARG: tabBarLeft(progressBar! depth=2 depthInactive=1)
</div>
<div class="tabBodyFrame">
    <div class="tabBody">
       #BODY: -navbar_top -navbar_bottom
   </div>
   #POSTMATTER: html_pageicons_beg..html_pageicons_end
</div>
```

#POSTMATTER

14.4 Element properties

Using the #PROP command, you can attach some metainformation to the previous element.

```
* Heading
#PROP: id=myHeading
```

• when collapsing elements (e.g. compiling list items to one list), later options overwrite previous ones with the same name

For commands and regions, these options are part of the definition:

```
#COMMAND optionA=ValueA optionB=ValueB: foo
#Region optionA=ValueA optionB=ValueB <<--
```

So why is there an #PROP command, anyway? It's there to add more flexibility to elements that are defined in wiki-like markup.

For macros and particles (inline elements), the situation similar. The following two text lines are equivalent:

14.4.1 Global properties

Global properties can be defined in a global hash variable.

Example 14.4: Global properties

The following will tag the heading "Foo" as "heading" and the text in foo.txt with "secondLevel".

```
#VAR: $ElementHeading[tag]=heading
#VAR: $INC[tag]=secondLevel
* Foo
#INC: foo.txt
```

14.5 Tags and filters

The global variable efilter defines which elements to include in the output. Untagged elements use an implicit any tag.

In the following example, we include text stored in a variable in order not to mess up (by filtering elements) the formatting of the main document.

Example 14.5: Tags and filters

```
#Var id=tagsExampleInput <<---
* Foo
#PROP: tag=heading

Bar says barly "Bar".
#PROP: tag=bar

Boo says booly "Boo".
#PROP: tag=boo

Foo says fooly "Foo".
#PROP: tag=foo

Something else.
---
#INC $levelshift=2 $efilter=heading,foo,any var=tagsExampleInput
    yields:</pre>
```

14.5.1 Foo

Foo says fooly "Foo". Something else.

14.6 Special arguments

The following arguments usually have special meanings. You shouldn't use these names for macro arguments and the like.

```
id=NAME The element's ID
style=STYLE1,STYLE2,... The element's style
swallow! Don't print
```

add! **or** add=SEPARATOR the following options will be appended to already existing options of this name using SEPARATOR or a blank (add!)

- the following example sets the element option "test" to "1,2"
- Example (which is equivalent to the #PUSH command):

```
- #VAR add=,: test=1
- #VAR add=,: test=2
```

type=[body|preMatter|postMatter] The document section where the element will be put

slot=N The slot where the element will be put

- If N is negative, the text will be put at the slot's first position
- See also 15.1.

indentation=[auto|none] If an element is embedded in a list, you can change the way it is indented in the output.

auto Let the formatter decide
none Print left aligned

The fmt and the if options are special in that they are interpreted by deplate and prevent an element from being printed if they are not true:

fmt=FORMATTER Print the element/particle only if the current output formatter's name is FOR-MATTER

- Variants: fmt=~FORMATTER, nofmt=UNMATCHED FORMATTER, nofmt=~UNMATCHED FORMATTER
- Example:

- #VAR fmt=html: class=mycss
- #VAR fmt=latex: class=report

if=VAR Print the element/particle only if the test evaluates to true

- Variants: if=noVAR, if=(VAR==VALUE), if=(VAR!=VALUE), if=(VAR!=~VALUE), if=(VAR!=~VALUE)
- the if clause should be put in parentheses or double quotes in order to avoid parse errors
- the element/particle will be inserted only if the document variable VAR is set or matches/doesn't match VALUE
- if the docoption begins with "no" and the next letter is in upper case, the docoption's name will be converted to lower case and tested against its non-presence; see 11.5 for an example
- Example:
 - #TITLE if=(outcome==good): Hurray!

14.7 Clips

Clips are formatted text that were saved for later use. In opposition to variables, which are formatted after insertion, clips are formatted independently from where they are used.

Some command generate clips automatically. These auto-created clips are:

author The document's author

authornote A note about the author

title The document's title

date The document's creation date

15 Internals

15.1 Document structure

The formatted deplate document is made up of a pre-matter, a body, and a post-matter each of which is an array of arrays of strings.

Important:

It's possilt that "clip will disappe in a futurelease.

- Pre-matter
 - Slots
 - * Array of strings
- Body
 - Slots
 - * Array of strings
- Post-matter
 - Slots
 - * Array of strings

Using the docType option, you can determine into which section an element goes. Using the docSlot option, you can define the element's position withing a section.

In multi-file output, pre-matter and post-matter are the same for all files. The actual body usually beginns, but this depends on the formatter, at position 90 of the pre-matter and ends at position 20 of the post-matter section. I.e. if you want to print some information in every file's body, put it somewhere in the pre-matter after position 90 or in the post-matter before slot 20.

The default slot for normal text is 50 in the body section. If slot is greater than 50, the element will be moved to the end of the document. If it is smaller, it will be moved to the beginning. The utility of this feature for the user is limited. It can come handy, if you want to put LaTeX-code into the preamble or if you want to customize the output in some more advanced way.

The slots can also be addressed via names:

• Pre

doc_def The document type definition

doc_beg The beginning of the document

head_beg The beginning of the document head

javascript Javascript

mod_packages Packages loaded by a module

user_packages User-required packages

mod_head Additional header statements added by a module

user_head Additional header statements added by the user

head Document header statements

user_head Document header statements added by the user

css Style definitions

head_end The end of the document head

body_beg The beginning of the body definition

• Body

body The body (standard slot)

footnotes Footnotes

• Post

body_end The end of the body definition
doc_end The end of the document

The names can come handy when selectively filling in content into a template.

Any element can be located at any position in the document. This can be done by adding the option "slot" to an element. The value of "slot" can be a name, a number, or a mix of both like in "css+1" or "body-1".

In general, you shouldn't address slots by their number. It's quite likely that this option will soon disappear.

Important:
The use numbers deprecated and will disabled son time in t future.

16 Extending deplate

A deplate document consists of elements (i.e., single lines or group of lines) that are made up of particles (sub-line-level text bits).

16.1 Line/Elements

Elements are processed in several passes:

- accumulate a new element; it's type is infered from the first line
- add other lines
- "finish" the element (unify with previous elements if applicable)
- process the element (at this point of time, all data/references etc. are known)
- output the formatted element (at this point of time, all elements were processed)

16.2 Text/Particles

Particles are processed in two passes:

- create an object and parse the text
- process the element and return a formatted string

16.2.1 **Symbols**

If you don't want to define symbols using #ABBREV in your source file (maybe because of performance considerations), you can make them available by creating a file like ~/.deplate/after/fmt/#{FORMATTER}/mysymbols.rb, which contains something like the following HTML example:

```
# Set the context for where we want to store our symbol definitions,
# here: HTML output format
class Deplate::Formatter::HTML
    # Create a hook function (the name must begin with
    # "formatter_initialize_")
    def formatter_initialize_my_symbols
          # Define our symbols. We could either create a hash and merge it
```

```
# with the already defined @special_symbols or add each entry with
        # a single command as in this example
        @special_symbols['€'] = '€'
        @special_symbols['\(\tilde{A}\)'] = 'Ä'
        # We need to rebuild the regular expression used for tokenizing
        build_plain_text_rx
   end
end
# Set the context: LaTeX output format
class Deplate::Formatter::LaTeX
   def formatter_initialize_my_symbols
        @special_symbols['€'] = '\EURtm{}'
        @special_symbols['\"A'] = '\"A{}'
        build_plain_text_rx
   end
end
```

Be aware though that this file will not be loaded when using a HTML variant like the htmlsite formatter. If you want to make these symbols be available in all descendants of the HTML formatter, you will have to move this ruby code to ~/.deplate/config.rb.

16.2.2 Macros

```
For adding a new macro, you would have to put something like this into your config.rb<sup>2</sup>:

Or use the simple_macro function/method as in:

Deplate::Core.simple_macro("mymacro", %{text * 3})

The macro is now accessible.

Foo {mymacro: bar}

This would then produce:
```

16.3 Formatters

Foo barbarbar

Sometimes, the best way to change deplate's output is to create a new formatter. Let's take the html-snippet formatter as an example. This formatter derives from the HTML formatter but has a different name and doesn't format paragraphs (the assumption is that this formatter is only used for small text snippets which are later on reused by an other application):

```
# Make the HTML formatter known
require 'deplate/fmt/html.rb'

# Inherit from the HTML formatter
class Deplate::Formatter::HTML_Snippet < Deplate::Formatter::HTML
# Give this formatter a name (this usually is the file's base name
NAME = "html-snippet"

# Define an initialization hook that is called after creating a new
# instance of this formatter.</pre>
```

²You could also use a ruby region 10.14 to define the command in place. This requires the -x command-line switch to be given, though.

```
# Make sure we run in "included" mode as we don't want any HTML
    # preamble in the output when formatting single phrases that will
    # be reused by another application.
    def formatter_initialize_snippet
         unless @deplate.options.included
             log(['Not run in included mode'], :error)
             log(['Set included mode'], :error)
             @deplate.options.included = true
         end
    end
    # Override the default method for formatting paragraphs. In this
    # case, we simply return the element's content.
    def format_paragraph(invoker)
         invoker.elt
    end
end
# Make the formatter known to "deplate".
class Deplate::Core
    declare_formatter Deplate::Formatter::HTML_Snippet
\mathbf{end}
 You could now save this code in, say, ~/.deplate/fmt/html-snippet.rb<sup>3</sup> and invoke the newly
defined formatter from the command line:
> echo '__Foo__ "bar".' | deplate -f html-snippet --included -
<em>Foo</em> &ldquo;bar&rdquo;.
```

References

Mynona (1980): Ich verlange ein Reiterstandbild. Prosa Band 1. edition text + kritik.

Venables, William N., Ripley, Brian D. (2003): *Modern Applied Statistics with R.* New York: Springer, 4 edn.

³This formatter is already included in the distribution. So, you don't have to actually save it in order to use it.

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