

The Template Toolkit (www.template-toolkit.org) is a sophisticated template system written by Andy Wardley.

Syntax

```
Directives
[% [GET] var %]
[% CALL var %]
[% [SET] var = value ... %]
[% DEFAULT var = value ... %]
[% META attr = value ... %]
[% INSERT filename %]
[% INCLUDE template [var = value ...] %]
[% PROCESS template [var = value ...] %]
[% WRAPPER template [var = value ...] %] text... [% END
[% BLOCK [name] %] content... [% END %]
[% FILTER filter %] text... [% END %]
[% MACRO name[(varlist)] directive %]
[% USE plugin[(param, ...)] %]
[% PERL %] code... [% END %]
[% RAWPERL %] code... [% END %]
[% FOREACH var = list \%] ... [% END %] [% WHILE cond \%] ... [% END %] [% IF cond \%] ... [% ELSIF cond \%] ...
[% ELSE %] [% END %]
[% SWITCH var %] ... [% CASE [{value|DEFAULT}] %]
... [% END %]
[% TRY %] ... [% CATCH [type] %] ...
      [% FINAL %] ... [% END %]
[% THROW type info ... %]
[% NEXT %]
[% LAST %]
[% RETURN %]
```

Special variables

[% STOP %]

template
outermost template being processed
methods: name, modtime
innermost template being processed
methods: name, modtime
loop
loop iterator
methods: count, first, last, max
error
content
global
cuptured output for WRAPPER
top level namespace

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Virtual methods

Scalar variables

chunk(size) negative size chunks from end

defined is value defined?

hash treat as single-element hash with key value

length length of string representation treat as single-item list match(re) true if value matches re

repeat (*n*) repeated *n* times

replace (re, sub) replace instances of re with sub returns list of matching subpatterns returns 1, as if a single-item list

split (re) split string on re

Hash variables

each list of alternating keys/values

exists(key) does key exist?

import (hash2) import contents of hash2

import into current namespace hash

keys list of keys

returns alternating key, value nsort keys sorted numerically

size number of pairs

sort keys sorted alphabetically

values list of values

List variables

first first item in list grep(re) items matching re items joined with str last item in list

max maximum index number (i.e. size - 1)

merge(list [, combine lists

list...])

nsort items sorted numerically remove first item from list push(item) add item to end of list reverse items in reverse order shift remove last item from list number of elements

slice(from, to) subset of list

sort items sorted lexically

splice(off, len modifies list

[, list])

unique unique items (retains order) unshift(item) add item to start of list

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Standard filters

collapses whitespace to a single space

eval(text) evaluate as template text evalper1(text) evaluate as template text evaluate as template text evaluate as Perl code format(str) format as per printf()

html performs HTML escaping on '<', '>', '&' html break convert empty lines to HTML linebreaks

html_line_break performs HTML escaping convert newlines to '
break

html_para convert blank lines to HTML paras indent (pad) indent by pad string or width

latex(outfmt)

lcfirst
lower case first character
convert to lower case
null
perl(text)
redirect(file)
remove(re)

mediret by part string of what
process through LaTeX
lower case first character
convert to lower case
output to the bit bucket
evaluate text as Perl code
redirect output to file
remove occurrences of re

repeat (n) repeat n times
replace (re, sub) replace re with sub
stderr redirect output to STDERR

stdout(binmode) redirect output to STDERR in mode binmode trim removes leading and trailing whitespace

truncate (len) truncate to length len capitalize first character upper convert to upper case uri truncate to length len capitalize first character convert to upper case performs URI-escaping

Standard plugins

Refer to documentation for details of individual plugins.

Autoformat autoformatting with Text::Autoformat

CGI interface to CGI.pm

Datafile data stored in plain text files

Date generates formatted time and date strings

Directory interface to directory contents

DBI interface to DBI

Dumper interface to Data::Dumper
File provides general file abstraction
Format provides printf-like formatting
GD::* provide access to GD graphics library

HTML generation

Iterator iterator creation

Pod interface to Pod::POM (POD Object Model)

String OO string manipulation interface

Table table formatting Url URL construction

Wrap simple paragraph wrapping

XML.DOM interface to XML Document Object Model

XML.RSS interface to XML::RSS XML.Simple interface to XML::Simple

XML.Style simple stylesheet transforms of XML

XML.XPath interface to XML::XPath

Configuration Options

Comiguration Options				
START TAG END_TĀG TAG_STYLE PRE_CHOMP POST_CHOMP TRIM INTERPOLATE ANYCASE	start of directive token end of directive token set pre-defined START_TAG/END_TAG style remove whitespace before directives remove whitespace after directives remove leading and trailing whitespace interpolate embedded variables allow lower case directive keywords	([%) (%]) (0) (0) (0) (0) (0)		
Template files and blocks				
INCLŪDE PATH	search path for templates			
DELIMITĒR	delimiter for separating paths	(:)		
ABSOLUTE	allow absolute file names	(0)		
RELATIVE	allow relative filenames	(0)		
DEFAULT BLOCKS	default template hash array pre-defining template blocks			
AUTO RESET	reset BLOCK definitions each time	(1)		
RECURSION	permit recursion in templates	(0)		
Template variables				
-	hash arrow of variables and values to pro-de	fina		

PRE DEFINE hash array of variables and values to pre-define VARTABLES synonym for PRE_DEFINE

Runtime processing options EVAL PERI process PERI /RAWPERI blocks (0)

process PERL/RAWPERL blocks (0)
template(s) to process before main template
template(s) to process after main template
template(s) to process instead of main tem-
plate
name of error template or reference to hash
array mapping error types to templates
default output location or handler
directory into which output files can be written
raise 'undef' error on access to undefined variables

Caching and Compiling Options

CACHE_SIZE	max comp	iled t	emplates to	cache (u	ndef,
_	i.e. cache				
COMPILE_EXT		for	compiled	template	files
	(undef)	_		_	
COMPILE_DIR		for	compiled	template	files
	(undef)				

Plugins and Filters

I lugins and Filter	13
PLUGINS	reference to a hash array mapping plugin
	names to Perl packages.
PLUGIN BASE	base class(es) under which plugins may be
_	found
LOAD PERL	load Perl modules if plugin not found (0)
FILTĒRS	hash array mapping filter names to filter
	subroutines or factories.

Compatibility, Customisation and Extension

V1DOLLAR	backwards compatibility flag
LOAD TEMPLATES	list of template providers
LOAD PLUGINS	list of plugin providers
LOAD FILTERS	list of filter providers
TOLERANT	set providers to tolerate errors as declina-
	tions (0)
SERVICE	custom service obj (Template::Service)
CONTEXT	custom context obj (Template::Context)
STASH	custom stash object (Template::Stash)
PARSER	custom parser object (Template::Parser)
GRAMMAR	custom grammar obj(Template::Grammar)

Command line tools

tpage

tpage processes supplied templates and sends output to STDOUT; variables can be defined with:

```
--define var=value ...
```

ttree

ttree processes directory hierarchies of templates; it takes the following options:

```
process all files ignoring mod-times
-a
        (--all)
        (--recurse)
                        recurse into sub-directories
-r
                        preserve file ownership and permis-
        (--preserve)
-p
                        sions
                        do nothing, just print summary (en-
        (--nothing)
-n
                        ables -v)
        (--verbose)
                        verbose mode
-v
-h
        (--help)
                        display help
        (--debug)
                        debug mode
-dbg
-s dir (--src=dir)
                        source directory
-d dir (--dest=DIR)
                        destination directory
-c dir (--cfg=DIR)
                        location of configuration files
-1 dir (--lib=DIR)
                        library
                                directory (INCLUDE PATH)
                        (multiple)
-f file (--file=FILE) read named configuration file (multi-
                        ple)
```

File search specifications (all may appear multiple times):

--ignore=regex ignore files matching regex --copy=regex copy files matching regex --accept=regex process only files matching regex

Additional options to set Template Toolkit configuration items:

define <i>var=value</i>	define template variable
interpolate	interpolate variables in text
anycase	accept keywords in any case
pre chomp	chomp leading whitespace
post chomp	chomp trailing whitespace
trim	trim blank lines around blocks

```
--eval perl
                    evaluate PERL code blocks
--load_perl
                    load regular Perl modules via USE directive
                    add TEMPLATE as header for each file
pre process=TEMPLATE
                    add TEMPLATE as footer for each file
post process=TEMPLATE
                    wrap TEMPLATE around each file
process=TEMPLATE
                    use TEMPLATE as default
default=TEMPLATE
--error=TEMPLATE use TEMPLATE to handle errors
                    STRING defines start of directive tag
start tag=STRING
--end tag=STRING STRING defines end of directive tag
--tag style=STYLE use pre-defined tag style STYLE
                    base PACKAGE for plugins
plugin_base=PACKAGE
                    extension for compiled templates
compile ext=STRING
-- compile dir=DIR directory for compiled templates
--perl5lib=DIR
                   additional Perl library directory
Perl API
use Template;
$tt = Template->new(\%config);
```

```
use Template;
$tt = Template->new(\%config);
$tt->process($template, \%vars[, $output]);
$tt->service;
$tt->context;
$tt->error;
```

Template Toolkit Quick Reference Card
A refeards.com™ quick reference card.
Revision 0.5 for Template Toolkit version 2.14 [July 2005]
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