

GNU Talk Filters

Amusing Text Translators
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1 Introduction

The GNU Talk Filters are filter programs that convert English text into text that mimics a stereotyped or otherwise humorous type of speech. This package is not an original work but rather a collection and integration of existing filter programs that were written by various people and that have been in the public domain for many years. For a list of authors, see [Chapter 5 \[Credits\]](#), page 13.

The filters are provided in both executable and library form. See [Chapter 2 \[The Filters\]](#), page 3 for synopses of the programs, and [Chapter 3 \[The Talkfilters Library\]](#), page 5 for a description of the library API.

Since the filters do word and substring substitution on the text they process, any word-wrap formatting of the original text will not be preserved in the output. The included `wrap` filter program may be used to reformat the output of the other filters to fit within a specified number of columns.

Some of these filters contain vulgarity, and thus are not appropriate for all audiences. If you find something offensive in one or more of these filters, please do not flame the maintainer of this package or the original authors, or request that the filter(s) in question be censored or removed; requests of this type will be summarily ignored.

These filters are not guaranteed to be idempotent across all inputs; that is, repeated applications of a given filter on an input may cause the output to differ each time. Moreover, some of the filters use randomization techniques so a given input is not guaranteed to produce the same output across invocations.

The ‘flex’ lexer (or any other lexer program, for that matter) is not required to build and use this package. However, ‘flex’ *is* required to rebuild the filters if the ‘.1’ source files are changed.

These filters are provided for amusement only. No racial or societal slurs are intended nor should be inferred.

2 The Filters

The filters provided in this package are enumerated below. This chapter describes the synopses for the individual filter programs; for a description of the library API, see [Chapter 3 \[The Talkfilters Library\]](#), page 5.

austro	Austrian (Ahhhhnold)
b1ff	B1FF of USENET yore
brooklyn	Brooklyn accent
chef	Swedish Chef (from <i>The Muppet Show</i>)
cockney	Londoner accent
drawl	Southern drawl
dubya	George "Dubya" Bush
fudd	Elmer Fudd (from the Looney Tunes cartoons)
funetak	Thick Asian accent
jethro	Jethro from <i>The Beverly Hillbillies</i>
jive	1970's Jive
kraut	German accent
pansy	Effeminate male
pirate	Pirate talk
postmodern	Postmodernist talk ("Feminazi")
redneck	Country redneck
valspeak	Valley talk
warez	H4x0r code
wrap	Word-wrap filter

The filter programs read from standard input and write to standard output. They all recognize the following switches:

```
--version    Print version information and exit.
--help      Print usage information and exit.
```

The `wrap` filter program additionally recognizes the following switch:

```
-w width   Specify the maximum number of columns width that the text may span. The
             minimum value of width is 10.
```

An example usage might be:

```
man ls | jive | wrap -w 78 | less
```


3 The Talkfilters Library

All of the filters in the GNU Talk Filters are available collectively as a C library which can be linked with other programs to provide embedded text filtering support. While the individual filter programs filter from standard input to standard output, the filtering functions in the library operate on in-memory buffers instead.

This chapter describes the API to the Talkfilters library. All of the functions and types described below are declared in the header file ‘talkfilters.h’.

`int gtf_filter_count (void)` [Function]

This function returns the number of filters in the library.

`gtf_filter_t * gtf_filter_list (void)` [Function]

This function returns a pointer to an array of *gtf_filter_t* structures which contain information about each of the filters in the library, including the filter’s symbolic name, a brief description of the filter that is suitable for display purposes, and a pointer to the filter function.

The following C program illustrates the use of `gtf_filter_count()` and `gtf_filter_list()` to display information about each filter in the library and invoke the filter on some test input:

```
#include <stdio.h>
#include <talkfilters.h>

int main(void)
{
    int ct, i;
    const gtf_filter_t *filters, *fp;
    const char *inbuf = "This is a test.";
    char outbuf[1024];

    ct = gtf_filter_count();
    printf("There are %d filters available.\n", ct);
    filters = gtf_filter_list();
    for(i = 0, fp = filters; i < ct; i++, fp++)
    {
        printf("filter #%d: %s - %s\n", i + 1, fp->name, fp->desc);
        fp->filter(inbuf, outbuf, sizeof(outbuf));
        puts(outbuf);
    }

    exit(0);
}
```

The type *gtf_filter_t* is a structure which contains the following members:

`char *name`

The symbolic name of the filter.

`char *desc`

A brief description of the filter.

`int (*filter)(const char *, char *, size_t)`

The filter function.

`gtf_filter_t * gtf_filter_lookup (const char *name)` [Function]

This is a lookup function for locating a specific filter. The function searches for the filter with the symbolic name *name*, and returns a pointer to the *gtf_filter_t* structure for that filter. If a filter with the given name is not found, the function returns NULL.

`int gtf_filter_austro (const char *input, char *buf, size_t bufsz)` [Function]

`int gtf_filter_bfff (const char *input, char *buf, size_t bufsz)` [Function]

`int gtf_filter_brooklyn (const char *input, char *buf, size_t bufsz)` [Function]

`int gtf_filter_chef (const char *input, char *buf, size_t bufsz)` [Function]

`int gtf_filter_cockney (const char *input, char *buf, size_t bufsz)` [Function]

`int gtf_filter_drawl (const char *input, char *buf, size_t bufsz)` [Function]

`int gtf_filter_dubya (const char *input, char *buf, size_t bufsz)` [Function]

`int gtf_filter_fudd (const char *input, char *buf, size_t bufsz)` [Function]

`int gtf_filter_funetak (const char *input, char *buf, size_t bufsz)` [Function]

`int gtf_filter_jethro (const char *input, char *buf, size_t bufsz)` [Function]

`int gtf_filter_jive (const char *input, char *buf, size_t bufsz)` [Function]

`int gtf_filter_kraut (const char *input, char *buf, size_t bufsz)` [Function]

`int gtf_filter_pansy (const char *input, char *buf, size_t bufsz)` [Function]

`int gtf_filter_pirate (const char *input, char *buf, size_t bufsz)` [Function]

`int gtf_filter_postmodern (const char *input, char *buf, size_t bufsz)` [Function]

`int gtf_filter_redneck (const char *input, char *buf, size_t bufsz)` [Function]

`int gtf_filter_valspeak (const char *input, char *buf, size_t bufsz)` [Function]

`int gtf_filter_warez (const char *input, char *buf, size_t bufsz)` [Function]

These functions invoke the corresponding filters on the input buffer *input*, which must be a NUL-terminated string. At most *bufsz* - 1 bytes of output are written to the buffer *buf*. The output is unconditionally NUL-terminated, but the text itself may be truncated if the buffer is too small to accommodate all of the output.

The functions return 0 on success, or 1 if a buffer overflow occurred (signifying that the output was truncated).

Note that lexical scanners generated by ‘flex’ are not reentrant, so no assumptions should be made about the reentrancy of the above functions. When this library is

used in a multithreaded environment, calls to these functions should be protected by mutex locks.

4 Writing New Filters

Writing new filters and adding them to the library is fairly straightforward, but certain conventions must be observed to ensure that the filters will work properly both as standalone programs and as library functions. The internal header file ‘`common.h`’ declares some utility functions and macros that should be used to ensure proper behavior.

`gtf_parse_args ()` [Macro]

A filter’s `main()` function should make a call to this macro to process the command line arguments. Currently, only the standard ‘`--help`’ and ‘`--version`’ switches are recognized. A call to this macro should typically be the first statement in `main()`.

`gtf_random_seed ()` [Macro]

Filters which make calls to the `gtf_random()` macro (described below), should make a call to this macro (preferably in `main()`) to seed the random number generator. This macro seeds the random number sequence with a bitwise OR of the current system time and the PID of the calling process.

`gtf_random (range)` [Macro]

This macro returns a random integer in the range `[0, range)`.

`gtf_printf (format, ...)` [Macro]

`gtf_putc (char)` [Macro]

`gtf_puts (string)` [Macro]

Filters must be able to function both as standalone programs and as library functions, so the stdio library functions cannot be used to write output. Instead, these macros should be used in place of the stdio library functions `printf()`, `putchar()`, and `puts()`, respectively. When a filter is compiled to run as an executable, these macros simply evaluate to calls to the stdio functions they replace; when it is compiled into the library, they evaluate to calls to internal library functions which write to a data buffer.

`gtf_puts_case (string)` [Macro]

This macro is a specialized form of `gtf_puts()` which ensures that the case of the first character in `string` matches that of the first character in the currently matched token. For example, if `yytext` is “Hello”, calling `gtf_puts_case()` with either “howdy” or “Howdy” as an argument will write the string “Howdy”, whereas if `yytext` is “hello”, the string written will be “howdy”.

`gtf_unput_last ()` [Macro]

This macro “unputs” the last character of the current token. In other words, the last character of `yytext` will be returned back to the input stream, so that it will be the next character read by the lexical scanner.

`void gtf_strbuf_init (gtf_databuf_t *sbuf, char *buf, size_t bufsz)` [Function]

This function initializes the `gtf_databuf_t` structure at `sbuf` to point to the buffer `buf`, which is `bufsz` bytes in length; these values specify the buffer to which the `gtf_printf()`, `gtf_putc()`, `gtf_puts()`, and `gtf_puts_case()` macros will ultimately write their output when the filter is called through the library API. The `gtf_databuf_t`

structure contains an integer field named `overflow` which will contain the value 1 after the call to `yylex()` if a buffer overflow occurred during filtering; otherwise it will contain the value 0.

`gtf_reset ()` [Macro]

This macro should be called after the call to `yylex()` within the filter API function in order to reset the state of the lexical scanner in preparation for the next call.

The following example shows the C code that implements both the library interface and the `main()` function for the `chef` filter.

```
#ifdef LIBRARY_MODE

int gtf_filter_chef(const char *input, char *buf, size_t bufsz)
{
    gtf_databuf_t buffer;
    YY_BUFFER_STATE _yybuf;

    gtf_strbuf_init(&buffer, buf, bufsz);
    _yybuf = yy_scan_string(input);
    yylex(&buffer);
    yy_delete_buffer(_yybuf);
    gtf_reset();

    return(buffer.overflow);
}

#else /* LIBRARY_MODE */

int main(int argc, char **argv)
{
    gtf_parse_args();

    yylex(NULL);

    exit(EXIT_SUCCESS);
}

#endif /* LIBRARY_MODE */
```

Each filter lex file must have an introductory fragment similar to the following:

```
%option prefix="chef_yy"
%option outfile="lex.yy.c"
%option noyywrap

%{

#include "common.h"

#define YY_DECL int yylex(gtf_databuf_t *buf)

%}
```

The `prefix` option specifies a prefix for the names of the functions generated for this filter; the function names for each filter must be unique so that multiple filters can coexist within the library.

The `outfile` option reverses an undesirable side effect of the `prefix` option, which is to name the generated C source file based on the prefix; this breaks `ylwrap` (an Automake helper program), which expects the output file to be named `lex.yy.c`.

The `noyywrap` option specifies that no `yywrap()` function is needed.

The macro `YY_DECL` is defined to specify that the `yylex()` function takes a single argument, a pointer to the `gtf_databuf_t` structure described above. When `yylex()` is called from `main()`, no output buffer is needed since text is written to standard output, so in that case, it is called with a `NULL` pointer as the argument. This function can be declared to accept additional arguments, but the `buf` argument *must* be present.

The file `'talkfilters.c'` contains a filter registry in the form of an array of structures. Entries should be added therein for new filters. Appropriate `extern` declarations of the API functions for new filters should also be added to `'talkfilters.h'`.

5 Credits

While all of these filters have been available in one form or another in the public domain for many years, the original authors of some of the filters are unknown. Reasonable attempts were made to find the authors and obtain written permission to repack the filters as GNU software, but in some cases they could not be located.

The following table lists the known authors and contributors.

austro	Tom van Nes
biff	Matt Welsh, David Whitten
brooklyn	Daniel V Klein ('nyc.1')
chef	John Hagerman
cockney	Stephen K Mulrine, Edward Betts ('ken.1'); <i>unknown</i> ('cockney.1'); extensive enhancements by Samuel Stoddard
drawl	Adam Hudd
dubya	<i>anonymous contribution</i>
fudd	<i>unknown</i>
funetak	Eclipse Enterprises
jethro	Duane Paulson
jive	Daniel V Klein, Clement Cole, with enhancements by Samuel Stoddard
kraut	<i>unknown</i>
pansy	<i>unknown</i>
pirate	Original Perl/PHP version by Dougal Campbell, with enhancements by Mark Lindner
postmodern	<i>unknown</i>
redneck	Brand Hilton
valspeak	<i>unknown</i>
warez	Ian Johnston, with enhancements by Mark Lindner
wrap	Mark Lindner

The filters were repackaged, integrated, optimized, and documented by Mark Lindner (markl@gnu.org).

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gtf_filter_funetak	6	gtf_puts_case	9
gtf_filter_jethro	6	gtf_random	9
gtf_filter_jive	6	gtf_random_seed	9
gtf_filter_kraut	6	gtf_reset	10
gtf_filter_list	5	gtf_strbuf_init	9
gtf_filter_lookup	6	gtf_unput_last	9
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