

# GNU Talk Filters

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Amusing Text Translators  
Version 2.4  
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## Table of Contents

<b>1</b>	<b>Introduction .....</b>	<b>1</b>
<b>2</b>	<b>The Filters .....</b>	<b>3</b>
<b>3</b>	<b>The Talkfilters Library .....</b>	<b>5</b>
<b>4</b>	<b>Writing New Filters .....</b>	<b>9</b>
<b>5</b>	<b>Credits .....</b>	<b>13</b>
<b>6</b>	<b>Software License .....</b>	<b>15</b>
	Appendix: How to Apply These Terms to Your New Programs .....	20
	<b>Type and Function Index .....</b>	<b>21</b>



# 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.

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

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

<code>--version</code>	Print version information and exit.
<code>--help</code>	Print usage information and exit.

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

<code>-w width</code>	Specify the maximum number of columns <i>width</i> that the text may span. The minimum value of <i>width</i> is 10.
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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_bliff (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,          [Function]
                     size_t bufsz)
```

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 **noryywrap** 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 repackaging the filters as GNU software, but in some cases they could not be located.

The following table lists the known authors and contributors.

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

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



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`show w'. This is free software, and you are welcome to redistribute
it under certain conditions; type `show c' for details.
```

```
The hypothetical commands `show w' and `show c' should show
the appropriate parts of the General Public License.  Of course, the
commands you use may be called something other than `show w' and
`show c'; they could even be mouse-clicks or menu items---whatever
suits your program.
```

```
You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the program, if
necessary.  Here is a sample; alter the names:
```

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written
by James Hacker.
```

```
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
```

```
This General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library.  If this is what you want to do, use the GNU Library
General Public License instead of this License.
```



## Type and Function Index

gtf_databuf_t.....	9		
gtf_filter_t.....	6		
gtf_filter_austro.....	6	gtf_filter_pirate.....	6
gtf_filter_biff.....	6	gtf_filter_postmodern.....	6
gtf_filter_brooklyn.....	6	gtf_filter_redneck.....	6
gtf_filter_chef.....	6	gtf_filter_valspeak.....	6
gtf_filter_cockney.....	6	gtf_filter_warez.....	6
gtf_filter_count.....	5	gtf_parse_args.....	9
gtf_filter_drawl.....	6	gtf_printf.....	9
gtf_filter_dubya.....	6	gtf_putc.....	9
gtf_filter_fudd.....	6	gtf_puts.....	9
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
gtf_filter_pansy.....	6		