

TR(1)

User Commands

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## NAME

**tr** - translate or delete characters

## SYNOPSIS

**tr** [OPTION]... STRING1 [STRING2]

## DESCRIPTION

Translate, squeeze, and/or delete characters from standard input, writing to standard output. **STRING1** and **STRING2** specify arrays of characters **ARRAY1** and **ARRAY2** that control the action.

**-c, -C, --complement**

use the complement of **ARRAY1**

**-d, --delete**

delete characters in **ARRAY1**, do not translate

**-s, --squeeze-repeats**

replace each sequence of a repeated character that is listed in the last specified **ARRAY**, with a single occurrence of that character

first truncate ARRAY1 to length of ARRAY2

**--help** display this help and exit

**--version**

output version information and exit

ARRAYs are specified as strings of characters. Most represent themselves. Interpreted sequences are:

**\NNN** character with octal value NNN (1 to 3 octal digits)

**\\** backslash

**\a** audible BEL

**\b** backspace

**\f** form feed

**\n** new line

**\r** return

**\v** vertical tab

**CHAR1-CHAR2**

all characters from CHAR1 to CHAR2 in ascending order

**[CHAR\*]**

in ARRAY2, copies of CHAR until length of ARRAY1

**[CHAR\*REPEAT]**

REPEAT copies of CHAR, REPEAT octal if starting with 0

**[:alnum:]**

all letters and digits

**[:alpha:]**

all letters

**[:blank:]**

all horizontal whitespace

**[:cntrl:]**

all control characters

**all digits**

**[:graph:]**

**all printable characters, not including space**

**[:lower:]**

**all lower case letters**

**[:print:]**

**all printable characters, including space**

**[:punct:]**

**all punctuation characters**

**[:space:]**

**all horizontal or vertical whitespace**

**[:upper:]**

**all upper case letters**

**[:xdigit:]**

**all hexadecimal digits**

**[=CHAR=]**

Translation occurs if `-d` is not given and both `STRING1` and `STRING2` appear. `-t` is only significant when translating. `ARRAY2` is extended to length of `ARRAY1` by repeating its last character as necessary. Excess characters of `ARRAY2` are ignored. Character classes expand in unspecified order; while translating, `[:lower:]` and `[:upper:]` may be used in pairs to specify case conversion. Squeezing occurs after translation or deletion.

## BUGS

Full support is available only for safe single-byte locales, in which every possible input byte represents a single character. The `C` locale is safe in GNU systems, so you can avoid this issue in the shell by running `LC_ALL=C tr` instead of plain `tr`.

## AUTHOR

Written by Jim Meyering.

## REPORTING BUGS

GNU coreutils online help: [<https://www.gnu.org/software/coreutils/>](https://www.gnu.org/software/coreutils/)

Report any translation bugs to [<https://translationproject.org/team/>](https://translationproject.org/team/)

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## SEE ALSO

Full documentation <<https://www.gnu.org/software/coreutils/tr>>

or available locally via: info '(coreutils) tr invocation'

GNU coreutils 9.4

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TR(1)