NAME

brotli(1) -- brotli, unbrotli - compress or decompress files

SYNOPSIS

brotli [*OPTION|FILE*]...

unbrotli is equivalent to **brotli --decompress**

DESCRIPTION

brotli is a generic-purpose lossless compression algorithm that compresses data using a combination of a modern variant of the **LZ77** algorithm, Huffman coding and 2-nd order context modeling, with a compression ratio comparable to the best currently available general-purpose compression methods. It is similar in speed with deflate but offers more dense compression.

brotli command line syntax similar to **gzip (1)** and **zstd (1)**. Unlike **gzip (1)**, source files are preserved by default. It is possible to remove them after processing by using the **--rm** *option*.

Arguments that look like "**--name**" or "**--name=value**" are *options*. Every *option* has a short form "**-x**" or "**-x value**". Multiple short form *options* could be coalesced:

- "**--decompress --stdout --suffix=.b**" works the same as
- "**-d -s -S .b**" and
- "**-dsS .b**"

brotli has 3 operation modes:

- default mode is compression;
- **--decompress** option activates decompression mode;
- **--test** option switches to integrity test mode; this option is equivalent to "**--decompress --stdout**" except that the decompressed data is discarded instead of being written to standard output.

Every non-option argument is a *file* entry. If no *files* are given or *file* is "-", **brotli** reads from standard input. All arguments after "**--**" are *file* entries.

Unless **--stdout** or **--output** is specified, *files* are written to a new file whose name is derived from the source *file* name:

- when compressing, a suffix is appended to the source filename to get the target filename

- when decompressing, a suffix is removed from the source filename to get the target filename

Default suffix is **.br**, but it could be specified with **--suffix** option.

Conflicting or duplicate *options* are not allowed.

OPTIONS

- **-#**: compression level (0-9); bigger values cause denser, but slower compression

- **-c**, **--stdout**: write on standard output

- **-d**, **--decompress**: decompress mode

- **-f**, **--force**: force output file overwrite

- **-h**, **--help**: display this help and exit

- **-j**, **--rm**: remove source file(s); **gzip (1)**-like behaviour

- **-k**, **--keep**: keep source file(s); **zstd (1)**-like behaviour

- **-n**, **--no-copy-stat**: do not copy source file(s) attributes

- **-o FILE**, **--output=FILE** output file; valid only if there is a single input entry

- **-q NUM**, **--quality=NUM**: compression level (0-11); bigger values cause denser, but slower compression

- **-t**, **--test**: test file integrity mode

- **-v**, **--verbose**: increase output verbosity

- **-w NUM**, **--lgwin=NUM**: set LZ77 window size (0, 10-24) (default: 24); window size is **(pow(2, NUM) - 16)**; 0 lets compressor decide over the optimal value; bigger windows size improve density; decoder might require up to window size memory to operate

- **-D FILE**, **--dictionary=FILE**: use FILE as raw (LZ77) dictionary; same dictionary MUST be used both for compression and decompression

- **-S SUF**, **--suffix=SUF**: output file suffix (default: **.br**)

- **-V**, **--version**: display version and exit

- **-Z**, **--best**: use best compression level (default); same as "**-q 11**"

SEE ALSO

brotli file format is defined in RFC 7932 (https://www.ietf.org/rfc/rfc7932.txt).

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Mailing list: https://groups.google.com/forum/#!forum/brotli

BUGS

Report bugs at: https://github.com/google/brotli/issues