

# Package ‘zstdr’

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**Type** Package

**Title** R Bindings to the 'Zstandard' Compression Library

**Version** 0.1.1

**Maintainer** Konstantin Sorokin <kvs@sigterm.ru>

**Description** Provides R bindings to the 'Zstandard' compression library.  
'Zstandard' is a real-time compression algorithm, providing high compression ratios.  
It offers a very wide range of compression / speed trade-off, while being backed by a very fast decoder.  
See <<http://facebook.github.io/zstd/>> for more information.

**URL** <https://github.com/thekvs/zstdr>

**BugReports** <https://github.com/thekvs/zstdr/issues>

**License** GPL (>= 2)

**LazyData** TRUE

**SystemRequirements** C++11, cmake (>= 2.8.9)

**Imports** Rcpp (>= 0.12.0)

**LinkingTo** Rcpp

**RoxygenNote** 6.0.1

**Suggests** testthat

**OS\_type** unix

**NeedsCompilation** yes

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Facebook, Inc [aut, cph] (Fast real-time compression library)

**Repository** CRAN

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zstdCompress	<i>Zstandard compression</i>
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## Description

Zstandard, or zstd as short version, is a fast lossless compression algorithm, targeting real-time compression scenarios at zlib-level and better compression ratios.

## Usage

```
zstdCompress(data, level = 3)
```

## Arguments

data	input data to be compressed or decompressed
level	compression level to use, value between 1 and returned by <a href="#">zstdMaxCLevel</a> function, default is 3

## Details

Compresses data using zstandard algorithm

## Value

compressed data

## References

<http://facebook.github.io/zstd/>

## See Also

[memCompress](#) [zstdDecompress](#) [zstdMaxCLevel](#)

## Examples

```
# Simple example
library(zstdr)
data_file <- file.path(R.home(), "COPYING")
data <- readBin(data_file, raw(), file.info(data_file)$size)
compressed <- zstdCompress(data)
stopifnot(identical(data, zstdDecompress(compressed)))
```

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zstdDecompress	<i>Zstandard compression</i>
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## Description

Zstandard, or zstd as short version, is a fast lossless compression algorithm, targeting real-time compression scenarios at zlib-level and better compression ratios.

## Usage

```
zstdDecompress(data)
```

## Arguments

data	input data to be decompressed
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## Details

Decompresses data previously compressed with [zstdCompress](#)

## Value

decompressed data

## See Also

[memCompress](#) [zstdCompress](#) [zstdMaxCLevel](#)

## Examples

```
# Simple example
library(zstd)
data_file <- file.path(R.home(), "COPYING")
data <- readBin(data_file, raw(), file.info(data_file)$size)
compressed <- zstdCompress(data)
stopifnot(identical(data, zstdDecompress(compressed)))
```

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zstdMaxCLevel	<i>Returns maximum compression level supported by zstandard</i>
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**Description**

Returns maximum compression level supported by zstandard

**Usage**

```
zstdMaxCLevel()
```

**Value**

maximum supported compression level

**See Also**

[memCompress](#) [zstdCompress](#) [zstdDecompress](#)

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