

Package: strzip (via r-universe)

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Title compression for very small Strings

Version 1.0.0

Description This package implements short string compression algorithms.

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Encoding UTF-8

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URL <https://github.com/schochastics/strzip>

BugReports <https://github.com/schochastics/strzip/issues>

Repository <https://schochastics.r-universe.dev>

RemoteUrl <https://github.com/schochastics/strzip>

RemoteRef HEAD

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format.strzip *Encode strzip*

Description

Encode strzip

Usage

```
## S3 method for class 'strzip'  
format(x, ...)
```

Arguments

x strzip object
... further arguments passed to or from other methods.

print.strzip *Print a compressed string*

Description

Print a compressed string

Usage

```
## S3 method for class 'strzip'  
print(x, ...)
```

Arguments

x A compressed string object
... additional arguments to print

strzip	<i>strzip</i>
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Description

This package implements short string compression algorithms.

Usage

```
strzip(x = character())
```

Arguments

x character

Author(s)

Maintainer: David Schoch <david@schochastics.net> ([ORCID](#))

Other contributors:

- Salvatore Sanfilippo (Author of SMAZ library) [copyright holder]
- Arundale Ramanathan (Author of Unishox2 library) [copyright holder]

See Also

Useful links:

- <https://github.com/schochastics/strzip>
- Report bugs at <https://github.com/schochastics/strzip/issues>

str_compress	<i>Compress a vector of strings using Unishox2</i>
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Description

This function compresses each string in a vector using the Unishox2 compression algorithm.

Usage

```
str_compress(x)
```

Arguments

x A character vector of strings to be compressed.

Value

A character vector of compressed strings.

Examples

```
str_compress(c("Hello", "world", "Unishox2"))
```

str_compress_raw *Compress a string using SMAZ algorithm*

Description

Compress a string using SMAZ algorithm

Usage

```
str_compress_raw(x)
```

Arguments

x A character vector string to compress.

Value

A list of raw vectors containing the compressed data.

Examples

```
str_compress_raw(c("Hello", "world", "smaz"))
```

str_compress_read *Decompress a character vector from a file*

Description

This function reads compressed binary data from a file and decompresses it using Unishox2.

Usage

```
str_compress_read(file)
```

Arguments

file The filename containing the compressed binary data.

Value

A decompressed character string.

str_compress_write	<i>Compress a vector of strings and write to a file</i>
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Description

This function compresses a string using Unishox2 and writes the compressed binary data to a file.

Usage

```
str_compress_write(x, file)
```

Arguments

x	A character vector to be compressed.
file	filename where the compressed data will be written.

Value

The length of the compressed data written to the file (invisibly).

str_decompress	<i>Decompress a vector of strings using Unishox2</i>
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Description

This function decompresses each string in a compressed character vector that was compressed using Unishox2.

Usage

```
str_decompress(x)
```

Arguments

x	A character vector of compressed strings to be decompressed.
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Value

A character vector of decompressed strings.

Examples

```
compressed_vec <- str_compress(c("Hello", "world", "Unishox2"))
str_decompress(compressed_vec)
```

str_decompress_raw *Decompress a raw vector using SMAZ algorithm*

Description

Decompress a raw vector using SMAZ algorithm

Usage

```
str_decompress_raw(x)
```

Arguments

x A list of raw vectors to decompress.

Value

A character vector of strings containing the decompressed data.

Examples

```
compressed_lst <- str_compress_raw(c("Hello", "world", "smaz"))
str_decompress_raw(compressed_lst)
```

summary.strzip *Summary for strzip*

Description

Summary for strzip

Usage

```
## S3 method for class 'strzip'
summary(object, type = "mean", ...)
```

Arguments

object strzip object

type either "mean" for average compression rate, "all" for all individual rates, "summary" for min/max/average rates

... additional arguments affecting the summary produced.

[.strzip *strzip class access vector*

Description

strzip class access vector

Usage

```
## S3 method for class 'strzip'  
x[i]
```

Arguments

x	character
i	element

[<-.strzip *strzip class assign*

Description

strzip class assign

Usage

```
## S3 replacement method for class 'strzip'  
x[i] <- value
```

Arguments

x	character
i	element
value	value

[[.strzip *strzip class access list*

Description

strzip class access list

Usage

```
## S3 method for class 'strzip'  
x[[i]]
```

Arguments

x	character
i	element

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