Package 'timeless'

July 2, 2024

Title Fast General Purpose Date/Time Converter

Version 0.2.2

Description Fast general purpose date/time converter using 'Rust'. The package implements date time, date and epoch time parser for heterogeneous vectors of dates.

URL https://github.com/schochastics/timeless, https://schochastics.github.io/timeless/

BugReports https://github.com/schochastics/timeless/issues

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Encoding UTF-8

RoxygenNote 7.3.0

Config/rextendr/version 0.3.1

Depends R (>= 3.6)

LazyData true

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

NeedsCompilation yes

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Contents

`timeless-package` *timeless: Fast General Purpose Date/Time Converter*

Description

Fast general purpose date/time converter using 'Rust'. The package implements date time, date and epoch time parser for heterogeneous vectors of dates.

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See Also

Useful links:

- https://github.com/schochastics/timeless
- https://schochastics.github.io/timeless/
- Report bugs at https://github.com/schochastics/timeless/issues

bench_date *A benchmark dataset with different date formats*

Description

A benchmark dataset with different date formats

Usage

```
bench_date
```

Format

An object of class `character` of length 93.

chronos *Fast general purpose parser for date(time) from input data*

Description

Fast general purpose parser for date(time) from input data

Usage

```
chronos(x, formats = NULL, tz = "", to_tz = "", out_format = "datetime")
```

Arguments

`x`	A vector with date(time) expressions to be parsed and converted.
`formats`	character vector of formats to try out (see base::strptime). If NULL, uses a set of predefined formats mostly taken from the anytime package.
`tz`	assumed input timezone. If "", uses local timezone. See details
`to_tz`	convert datetime to timezone given in to_tz. If "", tz is used. See details
`out_format`	character. Defining the format of the returned result. Can be "datetime", "date", or "character".

Details

The internal parsing is done "timezoneless". The timezone given in tz is just added to the datetime without any conversion. If to_tz is given, a conversion is made from tz to to_tz.

Value

A character vector which can be transformed to `POSIXct` or date

See Also

parse_datetime, parse_date, and parse_epoch if you need more control over formatting

Examples

```
chronos(bench_date)
```

`parse_date` *Parse date from strings using different formats*

Description

Parse date from strings using different formats

Usage

```
parse_date(x, formats = NULL, out_date = "%Y-%m-%d")
```

Arguments

`x`	A vector with date(time) expressions to be parsed and converted.
`formats`	character vector of formats to try out (see base::strptime). If NULL, uses a set of predefined formats mostly taken from the anytime package.
`out_date`	character defining the date format of the parsed strings

Value

character vector of parsed dates.

`parse_datetime` *Parse datetime from strings using different formats*

Description

Parse datetime from strings using different formats

Usage

```
parse_datetime(x, formats = NULL, out_datetime = "%Y-%m-%d %H:%M:%S")
```

Arguments

`x`	A vector with date(time) expressions to be parsed and converted.
`formats`	character vector of formats to try out (see base::strptime). If NULL, uses a set of predefined formats mostly taken from the anytime package.
`out_datetime`	character defining the datetime format of the parsed strings

Value

character vector of parsed datetimes

`parse_epoch` *Parse datetime from epoch*

Description

Parse datetime from epoch

Usage

```
parse_epoch(x, tz = "", out_datetime = "%Y-%m-%d %H:%M:%S")
```

Arguments

`x`	A vector with date(time) expressions to be parsed and converted.
`tz`	timezone of output datetime. If "", uses local timezone
`out_datetime`	character defining the datetime format of the parsed strings

Value

character vector of parsed dates.

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