Package 'timeless'

March 4, 2024

Title Fast General Purpose Date/Time Converter

Version 0.1.0

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

License MIT + file LICENSE

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

Author David Schoch [aut, cre] (<https://orcid.org/0000-0003-2952-4812>), Rollie Ma [ctb, cph] (author of dateparser : <https://github.com/waltzofpearls/dateparser>), Brandon W. Maister [ctb, cph] (author of chrono : <https://github.com/chronotope/chrono>), Dirkjan Ochtman [ctb, cph] (author of chrono : <https://github.com/chronotope/chrono>), Seonghoon Kang [ctb, cph] (author of chrono : <https://github.com/chronotope/chrono>), Eric Sheppard [ctb, cph] (author of chrono : <https://github.com/chronotope/chrono>), Paul Dicker [ctb, cph] (author of chrono : <https://github.com/chronotope/chrono>)

Maintainer David Schoch <david@schochastics.net>

Repository CRAN

Date/Publication 2024-03-04 11:00:02 UTC

R topics documented:

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

Description

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

Author(s)

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

Other contributors:

- Rollie Ma (author of dateparser : <https://github.com/waltzofpearls/dateparser>) [contributor, copyright holder]
- Brandon W. Maister (author of chrono : <https://github.com/chronotope/chrono>) [contributor, copyright holder]
- Dirkjan Ochtman (author of chrono : <https://github.com/chronotope/chrono>) [contributor, copyright holder]
- Seonghoon Kang (author of chrono : <https://github.com/chronotope/chrono>) [contributor, copyright holder]
- Eric Sheppard (author of chrono : <https://github.com/chronotope/chrono>) [contributor, copyright holder]
- Paul Dicker (author of chrono : <https://github.com/chronotope/chrono>) [contributor, copyright holder]

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 = "", 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`	timezone of output datetime. If "", uses local timezone
`out_format`	character. Defining the format of the returned result. Can be "datetime", "date", or "character".

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.

Index