

Package ‘datetoiso’

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Type Package

Title Modify Dates to ISO Standard (“`International Organization for Standardization”)

Version 0.2.0

URL <https://github.com/andzoluk>

Language en-US

Description

Transfer any date type to ISO standard. Package recognizes dates in given data frame and transform to ISO format. Only one date format can be applied within one data frame column.

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Encoding UTF-8

Imports stringr, lubridate

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

RoxygenNote 7.2.3

NeedsCompilation no

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choose_dmy_format	<i>Get TRUE if date format is dmy</i>
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Description

Get TRUE if date format is dmy

Usage

choose_dmy_format(df_column)

Arguments

df_column data frame date column or vector with dates

Value

logical vector, TRUE if most probable date format is DMY

Author(s)

Lukasz Andrzejewski

choose_dym_format	<i>Get TRUE if date format is dym</i>
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Description

Get TRUE if date format is dym

Usage

```
choose_dym_format(df_column)
```

Arguments

df_column data frame date column or vector with dates

Value

logical vector, TRUE if most probable date format is DYM

Author(s)

Lukasz Andrzejewski

choose_mdy_format	<i>Get TRUE if date format is mdy</i>
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Description

Get TRUE if date format is mdy

Usage

```
choose_mdy_format(df_column)
```

Arguments

df_column data frame date column or vector with dates

Value

logical vector, TRUE if most probable date format is MDY

Author(s)

Lukasz Andrzejewski

choose_myd_format	<i>Get TRUE if date format is myd</i>
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Description

Get TRUE if date format is myd

Usage

```
choose_myd_format(df_column)
```

Arguments

df_column data frame date column or vector with dates

Value

logical vector, TRUE if most probable date format is MYD

Author(s)

Lukasz Andrzejewski

choose_ydm_format	<i>Get TRUE if date format is ydm</i>
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Description

Get TRUE if date format is ydm

Usage

```
choose_ydm_format(df_column)
```

Arguments

df_column data frame date column or vector with dates

Value

logical vector, TRUE if most probable date format is YDM

Author(s)

Lukasz Andrzejewski

choose_ymd_format	<i>Get TRUE if date format is ymd</i>
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Description

Get TRUE if date format is ymd

Usage

```
choose_ymd_format(df_column)
```

Arguments

df_column data frame date column or vector with dates

Value

logical vector, TRUE if most probable date format is YMD

Author(s)

Lukasz Andrzejewski

dfiso	<i>Function recognize date variables and modify them to ISO standard ("International Organization for Standardization")</i>
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Description

Function recognize date variables and modify them to ISO standard ("International Organization for Standardization")

Usage

```
dfiso(df)
```

Arguments

df data frame or variable/s, for example data.frame(date=c("12-Mar-2021","01-Jan-2023"))

Value

dates formatted to ISO standard (yyyy-mm-dd)

Author(s)

Lukasz Andrzejewski

Examples

```
# data frame with different formatted dates
dfiso(data.frame(date1=c("13-02-2022", "13/Feb/2022", "13-Feb-2022")))
```

find_dmy_date_format *Find DMY dates only*

Description

Find DMY dates only

Usage

```
find_dmy_date_format(df_column)
```

Arguments

df_column data frame date column or vector with dates

Value

logical vector, TRUE if date format is DMY

Author(s)

Lukasz Andrzejewski

find_dym_date_format *Find DYM dates only*

Description

Find DYM dates only

Usage

```
find_dym_date_format(df_column)
```

Arguments

df_column data frame date column or vector with dates

Value

logical vector, TRUE if date format is DYM

Author(s)

Lukasz Andrzejewski

find_mdy_date_format *Find MDY dates only*

Description

Find MDY dates only

Usage

```
find_mdy_date_format(df_column)
```

Arguments

df_column data frame date column or vector with dates

Value

logical vector, TRUE if date format is MDY

Author(s)

Lukasz Andrzejewski

find_myd_date_format *Find MYD dates only*

Description

Find MYD dates only

Usage

```
find_myd_date_format(df_column)
```

Arguments

df_column data frame date column or vector with dates

Value

logical vector, TRUE if date format is MYD

Author(s)

Lukasz Andrzejewski

find_only_dates	<i>Return TRUE if data frame column or vector contains date</i>
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Description

Return TRUE if data frame column or vector contains date

Usage

```
find_only_dates(df_column)
```

Arguments

df_column	data frame date column or vector with dates
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Value

logical vector, return TRUE if number of characters is higher than 5, contains digits and special characters or month names

Author(s)

Lukasz Andrzejewski

find_unknow_date	<i>Find Unknown date, defined as UN or UNK</i>
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Description

Find Unknown date, defined as UN or UNK

Usage

```
find_unknow_date(df_column)
```

Arguments

df_column	data frame date column or vector with dates
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Value

logical vector, TRUE if "un" character is found but not "jun"

Author(s)

Lukasz Andrzejewski

find_ydm_date_format *Find YDM dates only*

Description

Find YDM dates only

Usage

```
find_ydm_date_format(df_column)
```

Arguments

df_column data frame date column or vector with dates

Value

logical vector, TRUE if date format is YDM

Author(s)

Lukasz Andrzejewski

find_ydm_date_format *Find YDM dates only*

Description

Find YMD dates only

Usage

```
find_ymd_date_format(df_column)
```

Arguments

df_column data frame date column or vector with dates

Value

logical vector, TRUE if date format is YMD

Author(s)

Lukasz Andrzejewski

get_abbreviated_month_name

Replace full month name by abbreviated month name

Description

Replace full month name by abbreviated month name

Usage

```
get_abbreviated_month_name(df_column)
```

Arguments

df_column data frame date column or vector with dates

Value

vector, if any full length month name, then replace by abbreviated month name

Author(s)

Lukasz Andrzejewski

get_full_name_months_sep_by_vertical_bar

Get vector with full name of months separated by vertical bar

Description

Get vector with full name of months separated by vertical bar

Usage

```
get_full_name_months_sep_by_vertical_bar()
```

Value

full names and abbreviations of months separated by vertical bar

Author(s)

Lukasz Andrzejewski

`get_max_score_within_data_formats`*Score each of date format ymd, ydm, dmy, dym, mdy, myd and return only the highest score*

Description

Score each of date format ymd, ydm, dmy, dym, mdy, myd and return only the highest score

Usage`get_max_score_within_data_formats(df_column)`**Arguments**`df_column` data frame date column or vector with dates**Value**

return score of most probable date format

Author(s)

Lukasz Andrzejewski

`get_months`*List month names: full names and abbreviated names in lower case*

Description

List month names: full names and abbreviated names in lower case

Usage`get_months()`**Value**

full names and abbreviations of months

Author(s)

Lukasz Andrzejewski

get_months_full_names *List month names: full names in lower case*

Description

List month names: full names in lower case

Usage

```
get_months_full_names()
```

Value

full names of months

Author(s)

Lukasz Andrzejewski

get_months_sep_by_vertical_bar
Get vector with full and abbreviated name of months separated by vertical bar

Description

Get vector with full and abbreviated name of months separated by vertical bar

Usage

```
get_months_sep_by_vertical_bar()
```

Value

full names and abbreviations of months separated by vertical bar

Author(s)

Lukasz Andrzejewski

`get_number_of_symbols_in_string`*Function to find number of symbols in date*

Description

Function to find number of symbols in date

Usage

```
get_number_of_symbols_in_string(df_column, symbol = "T")
```

Arguments

<code>df_column</code>	data frame date column or vector with dates
<code>symbol</code>	symbol that needs to be found, by default "T"

Value

number of found symbols

Author(s)

Lukasz Andrzejewski

`get_up_to_12_char`*function return observations with up to 12 characters*

Description

function return observations with up to 12 characters

Usage

```
get_up_to_12_char(df_column)
```

Arguments

<code>df_column</code>	data frame column or vector to extract observations up to 12 characters
------------------------	---

Value

return up to 12 characters

Author(s)

Lukasz Andrzejewski

```
has_dash_or_slash_or_white_space_characters_or_months_separated_by_vertical_bar
    Function return special characters and months separated by vertical
    bars
```

Description

Function return special characters and months separated by vertical bars

Usage

```
has_dash_or_slash_or_white_space_characters_or_months_separated_by_vertical_bar(
    )
```

Value

special characters and months: "-|\\w+\\s+|january|february|march|april|may|june|july|august|september|october|november|december"

Author(s)

Lukasz Andrzejewski

```
has_dash_or_slash_or_white_space_characters_separated_by_vertical_bar
    Function return special characters separated by vertical bars
```

Description

Function return special characters separated by vertical bars

Usage

```
has_dash_or_slash_or_white_space_characters_separated_by_vertical_bar(
    special_characters = c("-", "\\/", "\\w+\\s+")
    )
```

Arguments

special_characters
by default dash, slash, white space characters

Value

special characters: "-|\\w+\\s+"

Author(s)

Lukasz Andrzejewski

prepare_date	<i>Additional step for YMD date type</i>
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Description

Additional step for YMD date type

Usage

```
prepare_date(df_column)
```

Arguments

df_column	data frame date column or vector with dates
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Value

output up to 12 characters, remove whitespace from start and end of string, keep characters from the left site of letter "T"

Author(s)

Lukasz Andrzejewski

remove_no_date_characters	<i>Function remove symbols</i>
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Description

Function remove symbols

Usage

```
remove_no_date_characters(df_column, symbols = "[;:+]")
```

Arguments

df_column	data frame column or vector from which symbols need to be removed
symbols	by default ; : +

Value

by default delete semicolon, colon and plus sign from vector or data frame

Author(s)

Lukasz Andrzejewski

remove_unnecessary_part_of_date

Get substring of date to eliminate unnecessary part

Description

Get substring of date to eliminate unnecessary part

Usage

```
remove_unnecessary_part_of_date(df_column, symbol = "T")
```

Arguments

df_column date column or vector with dates

symbol symbol that needs to be found, by default "T"

Value

substring of date from position 1 to position where last "symbol" is located

Author(s)

Lukasz Andrzejewski

viso

transform date vector to date vector in ISO standard ("International Organization for Standardization")

Description

transform date vector to date vector in ISO standard ("International Organization for Standardization")

Usage

```
viso(df_column)
```

Arguments

df_column vector or string

Value

dates formatted to ISO standard (yyyy-mm-dd)

Author(s)

Lukasz Andrzejewski

Examples

```
#day month year vector
viso(c("12Mar2022", "21Feb2022"))

#day month year vector in different formats
viso(c("12Mar2022", "21-02-2022"))

#month year day vector
viso(c("Mar-2022-12", "Feb-2022-21"))
```

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