

# 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.

**License** MIT + file LICENSE

**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      *Get TRUE if date format is dmy*

---

### 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      *Get TRUE if date format is dym*

---

**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      *Get TRUE if date format is mdy*

---

**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      *Get TRUE if date format is myd*

---

**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      *Get TRUE if date format is ydm*

---

**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      *Return TRUE if data frame column or vector contains date*

---

**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

**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      *Find Unknown date, defined as UN or UNK*

---

**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



**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\_ymd\_date\_format*    *Find YMD 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**

`df_column`      data frame date column or vector with dates  
`symbol`          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**

`df_column`      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                      *Additional step for YMD date type*

---

**Description**

Additional step for YMD date type

**Usage**

```
prepare_date(df_column)
```

**Arguments**

df\_column                      data frame date column or vector with dates

**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  
*Function remove symbols*

---

**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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