

# Package ‘edm1’

June 20, 2024

**Title** Set of functions to work with dates

**Version** 2.0.0.0

**Description** Provides functio to convert any date to a time unit, to add or subtract dates, change the dates formats and sort the dates.

**License** GPL (==3)

**Encoding** UTF-8

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.3.1

**Imports** stringr,  
stringi,  
dplyr,  
openxlsx

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converter_date	<i>converter_date</i>
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## Description

Allow to convert any date like second/minute/hour/day/month/year to either second, minute...year. The input date should not necessarily have all its time units (second, minute...) but all the time units according to a format. Example: "snhdmy" is for second, hour, minute, day, month, year. And "mdy" is for month, day, year.

Usage

```
converter_date(inpt_date, convert_to, frmt = "snhdmy", sep_ = "-")
```

Arguments

- inpt\_date is the input date
- convert\_to is the time unit the input date will be converted ("s", "n", "h", "d", "m", "y")
- frmt is the format of the input date
- sep\_ is the separator of the input date. For example this input date "12-07-2012" has "-" as a separator

Examples

```
print(converter_date(inpt_date="14-04-11-2024", sep_="-", frmt="hdmy", convert_to="m"))  
#[1] 24299.15  
  
print(converter_date(inpt_date="14-04-11-2024", sep_="-", frmt="hdmy", convert_to="y"))  
#[1] 2024.929  
  
print(converter_date(inpt_date="14-04-11-2024", sep_="-", frmt="hdmy", convert_to="s"))  
#[1] 63900626400  
  
print(converter_date(inpt_date="63900626400", sep_="-", frmt="s", convert_to="y"))  
#[1] 2024.929  
  
print(converter_date(inpt_date="2024", sep_="-", frmt="y", convert_to="s"))  
#[1] 63873964800
```

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converter_format	converter_format
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Description

Allow to convert a format to another

Usage

```
converter_format(inpt_val, sep_ = "-", inpt_frmt, frmt, default_val = "00")
```

Arguments

- inpt\_val is the input value that is linked to the format
- sep\_ is the separator of the value in inpt\_val
- inpt\_frmt is the format of the input value
- frmt is the format you want to convert to
- default\_val is the default value given to the units that are not present in the input format

**Examples**

```
print(converter_format(inpt_val="23-12-05-1567", sep_="-",
                       inpt_frmt="shmy", frmt="snhdmy", default_val="00"))

#[1] "23-00-12-00-05-1567"

print(converter_format(inpt_val="23-12-05-1567", sep_="-",
                       inpt_frmt="shmy", frmt="Pnhdmy", default_val="00"))

#[1] "00-00-12-00-05-1567"
```

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date\_addr

*date\_addr*


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**Description**

Allow to add or subtract two dates that have the same time unit or not

**Usage**

```
date_addr(
  date1,
  date2,
  add = FALSE,
  frmt1,
  frmt2 = frmt1,
  sep_ = "-",
  convert_to = "dmy"
)
```

**Arguments**

date1	is the date from which the second date will be added or subtracted
date2	is the date that will be added or will subtract date1
add	equals to FALSE if you want date1 - date2 and TRUE if you want date1 + date2
frmt1	is the format of date1 (snhdmy) (second, minute, hour, day, monthn year)
frmt2	is the format of date2 (snhdmy)
sep_	is the separator of date1 and date2
convert_to	is the format of the outputed date

**Examples**

```
print(date_addr(date1="25-02", date2="58-12-08", frmt1="dm", frmt2="shd", sep_="-",
                convert_to="dmy"))

#[1] "18-2-0"

print(date_addr(date1="25-02", date2="58-12-08", frmt1="dm", frmt2="shd", sep_="-",
                convert_to="dmy", add=TRUE))
```

```

#[1] "3-3-0"

print(date_addr(date1="25-02-2024", date2="1-01", frmt1="dmy", frmt2="dm", sep_="-",
               convert_to="dmy", add=TRUE))

#[1] "27-3-2024"

print(date_addr(date1="25-02-2024", date2="1-01", frmt1="dmy", frmt2="dm", sep_="-",
               convert_to="dmy", add=FALSE))

#[1] "23-1-2024"

print(date_addr(date1="25-02-2024", date2="1-01", frmt1="dmy", frmt2="dm", sep_="-",
               convert_to="n", add=FALSE))

#[1] "1064596320"

print(date_addr(date1="25-02-2024", date2="1-01", frmt1="dmy", frmt2="dm", sep_="-",
               convert_to="s", add=FALSE))

#[1] "63875779200"

```

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```

date_converter_reverse
      date_converter_reverse

```

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## Description

Allow to convert single date value like 2025.36 year to a date like second/minutehour/day/month/year (snhdmy)

## Usage

```
date_converter_reverse(inpt_date, convert_to = "dmy", frmt = "y", sep_ = "-")
```

## Arguments

inpt_date	is the input date
convert_to	is the date format the input date will be converted
frmt	is the time unit of the input date
sep_	is the separator of the outputed date

## Examples

```

print(date_converter_reverse(inpt_date="2024.929", convert_to="hmy", frmt="y", sep_="-"))

#[1] "110-11-2024"

print(date_converter_reverse(inpt_date="2024.929", convert_to="dmy", frmt="y", sep_="-"))

#[1] "4-11-2024"

```

```
print(date_converter_reverse(inpt_date="2024.929", convert_to="hdmy", frmt="y", sep="-")
#[1] "14-4-11-2024"

print(date_converter_reverse(inpt_date="2024.929", convert_to="dhym", frmt="y", sep="-")
#[1] "4-14-2024-11"
```

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format_date	<i>format_date</i>
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**Description**

Allow to convert xx-month-xxxx date type to xx-xx-xxxx

**Usage**

```
format_date(f_dialect, sentc, sep_in = "-", sep_out = "-")
```

**Arguments**

- f\_dialect        are the months from the language of which the month come
- sentc            is the date to convert
- sep\_in           is the separator of the dat input (default is "-")
- sep\_out          is the separator of the converted date (default is "-")

**Examples**

```
print(format_date(f_dialect=c("janvier", "février", "mars", "avril", "mai", "juin",
"juillet", "aout", "septembre", "octobre", "novembre", "décembre"), sentc="11-septembre-2
#[1] "11-09-2023"
```

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leap_yr	<i>bsx_year</i>
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**Description**

Get if the year is leap

**Usage**

```
leap_yr(year)
```

**Arguments**

- year            is the input year

Examples

```
print( leap_yr( year=2024 ) )

#[1] TRUE
```

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sort_date	<i>sort_date</i>
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Description

Allow to sort any vector containing a date, from any kind of format (my, hdmy, ymd ...), see examples.

Usage

```
sort_date( inpt_v, frmt, sep_ = "-", ascending = FALSE, give = "value" )
```

Arguments

- inpt\_v is the input vector containing all the dates
- frmt is the format of the dates, (any combinaison of letters "s" for second, "n", for minute, "h" for hour, "d" for day, "m" for month and "y" for year)
- sep\_ is the separator used for the dates
- ascending is the used to sort the dates
- give takes only two values "index" or "value", if give == "index", the function will output the index of sorted dates from inpt\_v, if give == "value", the function will output the value, it means directly the sorted dates in inpt\_v, see examples

Examples

```
print( sort_date( inpt_v = c( "01-11-2025", "08-08-1922", "12-04-1966" )
, frmt = "dmy", sep_ = "-", ascending = TRUE, give = "value" ) )

[1] "08-08-1922" "12-04-1966" "01-11-2025"

print( sort_date( inpt_v = c( "01-11-2025", "08-08-1922", "12-04-1966" )
, frmt = "dmy", sep_ = "-", ascending = FALSE, give = "value" ) )

[1] "01-11-2025" "12-04-1966" "08-08-1922"

print( sort_date( inpt_v = c( "01-11-2025", "08-08-1922", "12-04-1966" )
, frmt = "dmy", sep_ = "-", ascending = TRUE, give = "index" ) )

[1] 2 3 1

print( sort_date( inpt_v = c( "22-01-11-2025", "11-12-04-1966", "12-12-04-1966" )
, frmt = "hdmy", sep_ = "-", ascending = FALSE, give = "value" ) )

[1] "22-01-11-2025" "12-12-04-1966" "11-12-04-1966"

print( sort_date( inpt_v = c( "03-22-01-11-2025", "56-11-12-04-1966", "23-12-12-04-1966" )
```

*sort\_date*

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```
, frmt = "nhdmy", sep_ = "-", ascending = FALSE, give = "value"))  
[1] "03-22-01-11-2025" "23-12-12-04-1966" "56-11-12-04-1966"
```

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