Package 'cstime'

October 14, 2025

```
Title Date and Time Functions for Public Health Purposes

Version 2025.10.13
```

Version 2023.10.13

Description Provides easy and consistent time conversion for public health purposes. The time conversion functions provided here are between date, ISO week, ISO yearweek, ISO year, calendar month/year, season, season week.

```
License MIT + file LICENSE
```

```
URL https://www.csids.no/cstime/, https://github.com/csids/cstime
```

```
BugReports https://github.com/csids/cstime/issues
```

Encoding UTF-8

LazyData true

LazyDataCompression xz

RoxygenNote 7.3.2

Depends R (>= 3.5.0)

Imports data.table, magrittr

Suggests rmarkdown, ggplot2, knitr, testthat (>= 3.0.0), readxl, glue, lubridate

Config/testthat/edition 3

VignetteBuilder knitr

NeedsCompilation no

```
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dates_by_isoyearweek Dates of different days within isoyearweeks

Description

Dates of different days within isoyearweeks

Usage

dates_by_isoyearweek

Format

```
isoyear Isoyear.
```

isoyearweek Isoweek-isoyear.

mon Date of Monday.

tue Date of Tuesday.

wed Date of Wednesday.

thu Date of Thursday.

fri Date of Friday.

sat Date of Saturday.

sun Date of Sunday.

weekdays List of dates from Mon-Fri

weekend List of dates from Sat-Sun

days List of dates from Mon-Sun

Examples

```
# Constructing a vector of dates without removing the Date class
do.call("c", dates_by_isoyearweek[isoyearweek %in% c("2021-01", "2021-02")]$weekdays)
```

 ${\tt date_to_calmonth_c}$

Date -> calmonth (character)

Description

Date -> calmonth (character)

date_to_calmonth_n

```
Usage
```

```
date_to_calmonth_c(x = lubridate::today())
## Default S3 method:
date_to_calmonth_c(x)
## S3 method for class 'character'
date_to_calmonth_c(x = lubridate::today())
## S3 method for class 'Date'
date_to_calmonth_c(x = lubridate::today())
```

Arguments

Χ

a Date object or string, in the form of 'yyyy-mm-dd'

Value

```
calmonth ("XX")
```

Examples

```
date_to_calmonth_c("2021-08-11")
date_to_calmonth_c(lubridate::today())
```

date_to_calmonth_n

Date -> calmonth (numeric)

Description

```
Date -> calmonth (numeric)
```

Usage

```
date_to_calmonth_n(x = lubridate::today())
## Default S3 method:
date_to_calmonth_n(x)
## S3 method for class 'character'
date_to_calmonth_n(x = lubridate::today())
## S3 method for class 'Date'
date_to_calmonth_n(x = lubridate::today())
```

Arguments

x a Date object or string, in the form of 'yyyy-mm-dd'

```
date_to_calyearmonth_c
```

Value

calmonth

Examples

```
date_to_calmonth_n("2021-08-11")
date_to_calmonth_n(lubridate::today())
```

```
date_to_calyearmonth_c
```

Date -> calyearmonth (character)

Description

```
Date -> calyearmonth (character)
```

Usage

```
date_to_calyearmonth_c(x = lubridate::today())
## Default S3 method:
date_to_calyearmonth_c(x)
## S3 method for class 'character'
date_to_calyearmonth_c(x = lubridate::today())
## S3 method for class 'Date'
date_to_calyearmonth_c(x = lubridate::today())
```

Arguments

Х

a Date object or string, in the form of 'yyyy-mm-dd'

Value

```
calyearmonth ("YYYY-MXX")
```

```
date_to_calyearmonth_c("2021-08-11")
date_to_calyearmonth_c(lubridate::today())
```

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```
date_to_calyear_c
Date -> calyear (character)
```

Description

```
Date -> calyear (character)
```

Usage

```
date_to_calyear_c(x = lubridate::today())
## Default S3 method:
date_to_calyear_c(x)
## S3 method for class 'character'
date_to_calyear_c(x = lubridate::today())
## S3 method for class 'Date'
date_to_calyear_c(x = lubridate::today())
```

Arguments

Х

a Date object or string, in the form of 'yyyy-mm-dd'

Value

ISO year in character

Examples

```
date_to_calyear_c("2021-08-11")
date_to_calyear_c(lubridate::today())
```

```
date_to_calyear_n
```

Date -> calyear (numeric)

Description

```
Date -> calyear (numeric)
```

date_to_isoquarter_c 7

Usage

```
date_to_calyear_n(x = lubridate::today())
## Default S3 method:
date_to_calyear_n(x)
## S3 method for class 'character'
date_to_calyear_n(x = lubridate::today())
## S3 method for class 'Date'
date_to_calyear_n(x = lubridate::today())
```

Arguments

Х

a Date object or string, in the form of 'yyyy-mm-dd'

Value

ISO year in character

Examples

```
date_to_calyear_n("2021-08-11")
date_to_calyear_n(lubridate::today())
```

date_to_isoquarter_c ISO quarter (character) from Date object

Description

ISO quarter (character) from Date object

Usage

```
date_to_isoquarter_c(x = lubridate::today())
## Default S3 method:
date_to_isoquarter_c(x)
## S3 method for class 'character'
date_to_isoquarter_c(x = lubridate::today())
## S3 method for class 'Date'
date_to_isoquarter_c(x = lubridate::today())
```

Arguments

x a Date object or string, in the form of 'yyyy-mm-dd'

date_to_isoquarter_n

Value

8

ISO quarter in character

Examples

```
date_to_isoquarter_c("2021-08-11")
date_to_isoquarter_c(lubridate::today())
```

Description

ISO quarter (numeric) from Date object

Usage

```
date_to_isoquarter_n(x = lubridate::today())
## Default S3 method:
date_to_isoquarter_n(x)
## S3 method for class 'character'
date_to_isoquarter_n(x = lubridate::today())
## S3 method for class 'Date'
date_to_isoquarter_n(x = lubridate::today())
```

Arguments

x a Date object or string, in the form of 'yyyy-mm-dd'

Value

ISO quarter in numeric

```
date_to_isoquarter_n("2021-08-11")
date_to_isoquarter_n(lubridate::today())
```

date_to_isoweek_c 9

date_to_isoweek_c

ISO week (character) from Date object

Description

ISO week (character) from Date object

Usage

```
date_to_isoweek_c(x = lubridate::today())
## Default S3 method:
date_to_isoweek_c(x)
## S3 method for class 'character'
date_to_isoweek_c(x = lubridate::today())
## S3 method for class 'Date'
date_to_isoweek_c(x = lubridate::today())
```

Arguments

Х

a Date object or string, in the form of 'yyyy-mm-dd'

Value

ISO week in character

Examples

```
date_to_isoweek_c("2021-08-11")
date_to_isoweek_c(lubridate::today())
```

date_to_isoweek_n

ISO week (numeric) from Date object

Description

ISO week (numeric) from Date object

Usage

```
date_to_isoweek_n(x = lubridate::today())
## Default S3 method:
date_to_isoweek_n(x)
## S3 method for class 'character'
date_to_isoweek_n(x = lubridate::today())
## S3 method for class 'Date'
date_to_isoweek_n(x = lubridate::today())
```

Arguments

Χ

a Date object or string, in the form of 'yyyy-mm-dd'

Value

ISO week in numeric

Examples

```
date_to_isoweek_n("2021-08-11")
date_to_isoweek_n(lubridate::today())
```

```
date_to_isoyearquarter_c
```

ISO year and quarter (character) from Date object

Description

ISO year and quarter (character) from Date object

```
date_to_isoyearquarter_c(x = lubridate::today())
## Default S3 method:
date_to_isoyearquarter_c(x)
## S3 method for class 'character'
date_to_isoyearquarter_c(x = lubridate::today())
## S3 method for class 'Date'
date_to_isoyearquarter_c(x = lubridate::today())
```

date_to_isoyearweek_c 11

Arguments

x a Date object or string, in the form of 'yyyy-mm-dd'

Value

ISO year and quarter in character

Examples

```
date_to_isoyearquarter_c("2021-08-11")
date_to_isoyearquarter_c(lubridate::today())
```

Description

ISO year and week (character) from Date object

Usage

```
date_to_isoyearweek_c(x = lubridate::today())
## Default S3 method:
date_to_isoyearweek_c(x)
## S3 method for class 'character'
date_to_isoyearweek_c(x = lubridate::today())
## S3 method for class 'Date'
date_to_isoyearweek_c(x = lubridate::today())
```

Arguments

x a Date object or string, in the form of 'yyyy-mm-dd'

Value

ISO year and week in character

```
date_to_isoyearweek_c("2021-08-11")
date_to_isoyearweek_c(lubridate::today())
```

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```
date_to_isoyear_c
```

ISO year (character) from Date object

Description

ISO year (character) from Date object

Usage

```
date_to_isoyear_c(x = lubridate::today())
## Default S3 method:
date_to_isoyear_c(x)
## S3 method for class 'character'
date_to_isoyear_c(x = lubridate::today())
## S3 method for class 'Date'
date_to_isoyear_c(x = lubridate::today())
```

Arguments

Х

a Date object or string, in the form of 'yyyy-mm-dd'

Value

ISO year in character

Examples

```
date_to_isoyear_c("2021-08-11")
date_to_isoyear_c(lubridate::today())
```

```
date_to_isoyear_n
```

ISO year (numeric) from Date object

Description

ISO year (numeric) from Date object

date_to_seasonweek_n 13

Usage

```
date_to_isoyear_n(x = lubridate::today())
## Default S3 method:
date_to_isoyear_n(x)
## S3 method for class 'character'
date_to_isoyear_n(x = lubridate::today())
## S3 method for class 'Date'
date_to_isoyear_n(x = lubridate::today())
```

Arguments

Х

a Date object or string, in the form of 'yyyy-mm-dd'

Value

ISO year in numeric

Examples

```
date_to_isoyear_n("2021-08-11")
date_to_isoyear_n(lubridate::today())
```

date_to_seasonweek_n Date to season week.

Description

Date to season week.

Usage

```
date_to_seasonweek_n(x)
```

Arguments

date

Value

Season week in numeric

```
date_to_seasonweek_n(c("2021-01-01", "2021-12-01"))
```

date_to_season_c

Date to season.

Description

Date to season.

Usage

```
date_to_season_c(x)
```

Arguments

Χ

date

Value

```
Season, e.g. 2020/2021
```

Examples

```
date_to_season_c(c("2021-01-01", "2021-12-01"))
```

```
isoweek_to_seasonweek_n
```

ISO week to season week (numeric). Season week 1 is natural week 35.

Description

ISO week to season week (numeric). Season week 1 is natural week 35.

```
isoweek_to_seasonweek_n(x)
## Default S3 method:
isoweek_to_seasonweek_n(x)
## S3 method for class 'character'
isoweek_to_seasonweek_n(x)
## S3 method for class 'numeric'
isoweek_to_seasonweek_n(x)
```

Arguments

x ISO week in a year (numeric), between 1 and 53. ISO week 53 is season week 18.5

Value

Season week in numeric

Examples

```
isoweek_to_seasonweek_n(31)
```

Description

This function breaks the string connected with '-' into year/quarter

Usage

```
isoyearweek_to_isoquarter_c(x)
## Default S3 method:
isoyearweek_to_isoquarter_c(x)
## S3 method for class 'character'
isoyearweek_to_isoquarter_c(x)
```

Arguments

x Year-week, e.g. "2020-19" for 19th week in 2020

Value

ISO quarter in character

```
isoyearweek_to_isoquarter_c('2020-19')
```

Description

This function breaks the string connected with '-' into year/quarter

Usage

```
isoyearweek_to_isoquarter_n(x)

## Default S3 method:
isoyearweek_to_isoquarter_n(x)

## S3 method for class 'character'
isoyearweek_to_isoquarter_n(x)
```

Arguments

Х

Year-week, e.g. "2020-19" for 19th week in 2020

Value

ISO quarter in numeric

Examples

```
isoyearweek_to_isoquarter_n('2020-19')
```

```
isoyearweek_to_isoweek_c
```

ISO yearweek to week (character)

Description

This function breaks the string connected with '-' into year/week

```
isoyearweek_to_isoweek_c(x)
## Default S3 method:
isoyearweek_to_isoweek_c(x)
## S3 method for class 'character'
isoyearweek_to_isoweek_c(x)
```

Arguments

Χ

Year-week, e.g. "2020-19" for 19th week in 2020

Value

ISO week in character

Examples

```
isoyearweek_to_isoweek_c('2020-19')
```

```
isoyearweek_to_isoweek_n
```

ISO yearweek to week (numeric)

Description

This function breaks the string connected with '-' into year/week

Usage

```
isoyearweek_to_isoweek_n(x)
## Default S3 method:
isoyearweek_to_isoweek_n(x)
## S3 method for class 'character'
isoyearweek_to_isoweek_n(x)
```

Arguments

Χ

Year-week, e.g. "2020-19" for 19th week in 2020

Value

ISO week in numeric

```
isoyearweek_to_isoweek_n('2020-19')
```

Description

ISO yearweek to ISO yearquarter (character)

Usage

```
isoyearweek_to_isoyearquarter_c(x)
## Default S3 method:
isoyearweek_to_isoyearquarter_c(x)
## S3 method for class 'character'
isoyearweek_to_isoyearquarter_c(x)
```

Arguments

Х

Year-week, e.g. "2020-19" for 19th week in 2020

Value

ISO yearquarter in character

Examples

```
isoyearweek_to_isoyearquarter_c('2020-19')
```

Description

This function breaks the string connected with '-' into year/week

```
isoyearweek_to_isoyear_c(x)
## Default S3 method:
isoyearweek_to_isoyear_c(x)
## S3 method for class 'character'
isoyearweek_to_isoyear_c(x)
```

Arguments

Χ

Year-week, e.g. "2020-19" for 19th week in 2020

Value

ISO year in character

Examples

```
isoyearweek_to_isoyear_c('2020-10')
```

```
isoyearweek_to_isoyear_n
```

ISO yearweek to year (numeric)

Description

This function breaks the string connected with '-' into year/week

Usage

```
isoyearweek_to_isoyear_n(x)
## Default S3 method:
isoyearweek_to_isoyear_n(x)
## S3 method for class 'character'
isoyearweek_to_isoyear_n(x)
```

Arguments

Χ

Year-week, e.g. "2020-19" for 19th week in 2020

Value

ISO year in numeric

```
isoyearweek_to_isoyear_n('2020-10')
```

```
isoyearweek_to_last_date
```

Last date in ISO yearweek

Description

Returns the Sunday in the isoyearweek

Usage

```
isoyearweek_to_last_date(x)

## Default S3 method:
isoyearweek_to_last_date(x)

## S3 method for class 'character'
isoyearweek_to_last_date(x)
```

Arguments

..

ISO yearweek, e.g. "2020-19" for 19th week in 2020

Value

Date of Sunday of that isoyearweek

Examples

```
isoyearweek_to_last_date(c("2019-19", "2020-01"))
```

```
isoyearweek\_to\_seasonweek\_n
```

ISO yearweek to season week (numeric). Season week 1 is ISO week 35.

Description

ISO yearweek to season week (numeric). Season week 1 is ISO week 35.

Usage

```
isoyearweek_to_seasonweek_n(x)
```

Arguments

Χ

ISO yearweek

```
isoyearweek_to_season_c
```

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Value

Season week in numeric

Examples

```
isoyearweek_to_seasonweek_n(c("2021-01"))
```

```
isoyearweek\_to\_season\_c
```

ISO yearweek to season.

Description

ISO yearweek to season.

Usage

```
isoyearweek_to_season_c(x)
## Default S3 method:
isoyearweek_to_season_c(x)
## S3 method for class 'character'
isoyearweek_to_season_c(x)
```

Arguments

x isoyearweek, connected with '-'

Value

```
Season, e.g. 2020/2021
```

```
isoyearweek_to_season_c(c("2021-01", "2021-50"))
```

```
isoyear_to_last_date     Last Sunday in ISO year
```

Description

Returns the last Sunday in the isoyear

Usage

```
isoyear_to_last_date(x)

## Default S3 method:
isoyear_to_last_date(x)

## S3 method for class 'character'
isoyear_to_last_date(x)

## S3 method for class 'numeric'
isoyear_to_last_date(x)
```

Arguments

```
x ISO year, e.g. 2020
```

Value

Date of the Sunday, for the last week in the isoyear

Examples

```
isoyear_to_last_date(c(2019, 2019, 2020, 2021))
```

Description

Returns the last week in the isoyear

Usage

```
isoyear_to_last_isoweek_n(x)

## Default S3 method:
isoyear_to_last_isoweek_n(x)

## S3 method for class 'character'
isoyear_to_last_isoweek_n(x)

## S3 method for class 'numeric'
isoyear_to_last_isoweek_n(x)
```

Arguments

Χ

ISO year, e.g. 2020

Value

ISO week in numeric

Examples

```
isoyear_to_last_isoweek_n(c(2019, 2019, 2020, 2021))
```

```
is oyear\_to\_last\_is oyear week\_c \\ Last \textit{ISO year week (character) in ISO year}
```

Description

Returns the last isoyearweek in the isoyear

Usage

```
isoyear_to_last_isoyearweek_c(x)
## Default S3 method:
isoyear_to_last_isoyearweek_c(x)
## S3 method for class 'character'
isoyear_to_last_isoyearweek_c(x)
## S3 method for class 'numeric'
isoyear_to_last_isoyearweek_c(x)
```

Arguments

Χ

ISO year, e.g. 2020

Value

ISO year-week in character, of the last ISO year

Examples

```
isoyear_to_last_isoyearweek_c(c(2019, 2019, 2020, 2021))
```

keep_sundays

keep_sundays

Description

```
keep_sundays
```

Usage

```
keep_sundays(dates, format = "Uke isoweek_c-1/isoweek_c", keep_delete = TRUE)
```

Arguments

```
dates (later)
format format (later)
keep_delete keep_delete (later)
```

Value

Label: delete or not

```
\label{latest_date} keep\_sundays\_and\_latest\_date \\ keep\_sundays\_and\_latest\_date
```

Description

```
keep_sundays_and_latest_date
```

```
keep_sundays_and_latest_date(
  dates,
  format = "Uke isoweek_c-1/isoweek_c",
  keep_delete = TRUE
)
```

Arguments

```
dates (later)
format format (later)
keep_delete keep_delete (later)
```

Value

Date with level: delete or not

```
\label{latest_date_internal} keep\_sundays\_and\_latest\_date\_internal
```

Description

```
keep_sundays_and_latest_date_internal
```

Usage

```
keep_sundays_and_latest_date_internal(
  dates,
  format = "Uke isoweek_c-1/isoweek_c",
  keep_delete = TRUE,
  keep_latest_date = TRUE
)
```

Arguments

```
dates dates (later)

format format (later)

keep_delete keep_delet (later)

keep_latest_date keep_latest_date (later)
```

Description

Norwegian workdays and holidays by date

Usage

```
nor_workdays_by_date
```

Format

```
date Date.
day_of_week Integer. 1 = Monday, 7 = Sunday
mon_to_fri Integer. 1 between Monday and Friday, 0 between Saturday and Sunday
sat_to_sun Integer. 1 between Saturday and Sunday, 0 between Monday and Friday
public_holiday Integer. 1 if public holiday (helligdag), 0 if not public holiday
```

freeday Integer. 1 if public holiday (helligdag) or sat_to_sun==1, 0 otherwise

workday Integer. 1 if freeday==0, 0 if freeday==1

nor_workdays_by_isoyearweek

Norwegian workdays and holidays by isoyearweek

Description

Norwegian workdays and holidays by isoyearweek

Usage

```
nor_workdays_by_isoyearweek
```

Format

```
isoyearweek YYYY-WW
```

public_holiday The proportion of the days within the isoyearweek that are public holidays

freeday The proportion of the days within the isoyearweek that are either public holidays or Saturday/Sunday

workday 1 minus freeday

now_*c* 27

now_c

Current time as character

Description

Current time as character

Usage

```
now_c(format = "%Y-%m-%d %H:%M:%S")
```

Arguments

format

Defaults to %Y-%m-%d %H:%M:%S

```
seasonweek_to_isoweek_c
```

Season week to ISO week (character). Season week 1 is ISO week 35.

Description

Season week to ISO week (character). Season week 1 is ISO week 35.

Usage

```
seasonweek_to_isoweek_c(x)
## Default S3 method:
seasonweek_to_isoweek_c(x)
## S3 method for class 'numeric'
seasonweek_to_isoweek_c(x)
```

Arguments

Χ

Season week in a year (numeric), between 1 and 52

Value

ISO week in character

```
seasonweek_to_isoweek_c(31)
```

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```
seasonweek_to_isoweek_n
```

Season week to ISO week (numeric). Season week 1 is ISO week 35.

Description

Season week to ISO week (numeric). Season week 1 is ISO week 35.

Usage

```
seasonweek_to_isoweek_n(x)
## Default S3 method:
seasonweek_to_isoweek_n(x)
## S3 method for class 'numeric'
seasonweek_to_isoweek_n(x)
```

Arguments

Χ

Season week in a year, between 1 and 52

Value

ISO week in numeric

Examples

```
seasonweek_to_isoweek_n(31)
```

Description

Returns the last Sunday in the season

```
season_to_last_date(x)
## Default S3 method:
season_to_last_date(x)
## S3 method for class 'character'
season_to_last_date(x)
```

season_to_last_date 29

Arguments

x Season, e.g. "2019/2020"

Value

Date of last Sunday of that season

```
isoyearweek_to_last_date(c("2019-19", "2020-01"))
```

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