

Package: jalcal (via r-universe)

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Type Package

Title Conversion Between Jalali (Persian or Solar Hijri) and Gregorian Calendar Dates

Description Jalali, also known as Persian, Solar Hijri and Hijri Shamsi calendar is the official calendar of Iran and Afghanistan. It begins on Nowruz, the March equinox, as determined by astronomical calculation and has years of 365 or 366 days. Adapting the algorithms in <https://jdf.scr.ir/>, this package provides tools for converting the Jalali and Gregorian dates.

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License GPL (>= 2)

Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

URL <https://github.com/jalilian/jalcal>

BugReports <https://github.com/jalilian/jalcal/issues>

Repository <https://jalilian.r-universe.dev>

RemoteUrl <https://github.com/jalilian/jalcal>

RemoteRef HEAD

RemoteSha a07962070ca065aa58737cdc9ae82b804b6c97b8

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`greg2jal`*Convert Gregorian calendar date to Jalali calendar date*

Description

Convert Gregorian calendar date to Jalali calendar date

Usage

```
greg2jal(date)
```

Arguments

`date` An object of class Date specifying Gregorian date

Value

An integer vector consisting of the corresponding Jalali year, month and day

Author(s)

Abdollah Jalilian

Examples

```
greg2jal(base::Sys.Date())
```

`greg2jal0`*Convert Gregorian calendar date to Jalali calendar date*

Description

Convert Gregorian calendar date to Jalali calendar date

Usage

```
greg2jal0(year, month, day)
```

Arguments

`year` An integer specifying Gregorian year
`month` An integer specifying Gregorian month
`day` An integer specifying Gregorian day

Value

An integer vector consisting of the corresponding Jalali year, month and day

Author(s)

Abdollah Jalilian

Examples

```
greg2jal0(622, 3, 21)  
greg2jal0(1983, 9, 8)
```

isLeap

Determining whether a given year is leap year

Description

Determining whether a given year is leap year

Usage

```
isLeap(year, cal = "Gregorian")
```

Arguments

year	An integer vector specifying given years
cal	A character string specifying the calender type. Only 'Gregorian' and 'Jalali' are implemented

Value

A logical vector of of the same length as year which indicates wheter given years are leap years or not

Author(s)

Abdollah Jalilian

Examples

```
isLeap(1362, 'Jalali')  
isLeap(c(2000, 2100))
```

`jal2greg`*Convert Jalali calendar date to Gregorian calendar date*

Description

Convert Jalali calendar date to Gregorian calendar date

Usage

```
jal2greg(year, month, day, asDate = TRUE)
```

Arguments

<code>year</code>	An integer specifying Jalali year
<code>month</code>	An integer specifying Jalali month
<code>day</code>	An integer specifying Jalali day
<code>asDate</code>	A logical flag indicating whether the output Gregorian date must be in date format

Value

If `asDate = TRUE`, the default case, an object of the `Date` class in R, otherwise an integer vector consisting of the Gregorian year, month and day

Author(s)

Abdollah Jalilian

Examples

```
jal2greg(1, 1, 1)
jal2greg(1362, 6, 17)
jal2greg(1362, 6, 17, asDate=FALSE)
```

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