Package 'theRefdate'

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Title Simple and Fast Date Manipulation on Character Strings

Version 1.1.0

Description Provides simple and fast date manipulation functions operating on character strings in one of three formats: 'DD.MM.YYYY' (default), 'YYYY-MM-DD' or 'YYYYMMDD'. The format is chosen once per R session. Functions include extraction of day, month, and year components, computation of differences between two dates, and addition or subtraction of months.
``DD'' is ignored in the calculations, therefore a date like 31.02.2026 is a valid in- or output. That's why it is so fast.

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Encoding UTF-8

Language en-US

Suggests testthat (>= 3.0.0), knitr, rmarkdown

VignetteBuilder knitr

Config/testthat/edition 3

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NeedsCompilation no

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Contents

dateAddMonths 2
dateDiff 2
flavour 3
jahr 4
monat 4
setFlavour 5
tag 6

Index 7

`dateAddMonths` *dateAddMonths*

Description

Adds or subtracts a number of whole months to or from a date. The day is left unchanged.

Usage

```
dateAddMonths(termin, monthsToBeAdded, format = .zustand$name)
```

Arguments

`termin`	start date in the format of the flavour
`monthsToBeAdded`	number of whole months (positive: add, negative: subtract)
`format`	flavour; the default is the one set with `setFlavour`

Details

Invalid input, including `NA` and the empty string, is an error (version 1.0.0 returned `NA`).

Value

date in the format of the flavour

Examples

```
dateAddMonths("01.01.2000", -3 ) == "01.10.1999"
```

`dateDiff` *dateDiff*

Description

Computes the difference between two dates in the format of the flavour. Returns the differences in years, months and total months as a named list.

Usage

```
dateDiff(frueher, spaeter, format = .zustand$name)
```

Arguments

`frueher`	earlier date in the format of the flavour
`spaeter`	later date in the format of the flavour
`format`	flavour; the default is the one set with `setFlavour`

Details

Invalid input, including `NA` and the empty string, is an error (version 1.0.0 returned `NA`).

Value

list with diffJ (years), diffM (months), diffDauer (duration in fractional years), diffDauerM (total months)

Examples

```
dateDiff("01.01.2000", "01.12.1999")$diffDauerM == -1
```

`flavour` *flavour*

Description

Returns the active flavour (date format) of the package theRefdate.

Usage

```
flavour()
```

Value

character string: `"dmy"` (DD.MM.YYYY), `"iso"` (YYYY-MM-DD) or `"iso_basic"` (YYYYMMDD). The default is `"dmy"`. Version 1.0.0 returned `"LP"` for this format.

Examples

```
flavour() == "dmy"
```

jahr *Function 'jahr'*

Description

Extracts the year from a date string as 'numeric'.

Usage

```
jahr(datumstring, format = .zustand$name)
```

Arguments

datumstring	date string in the format of the flavour (default "DD.MM.YYYY")
format	flavour; the default is the one set with setFlavour

Details

Invalid input, including NA and the empty string, is an error (version 1.0.0 returned NA).

Value

numeric

Examples

```
jahr("02.02.2002") == 2002
```

monat *Function 'monat'*

Description

Extracts the month from a date string as 'numeric'.

Usage

```
monat(datumstring, format = .zustand$name)
```

Arguments

datumstring	date string in the format of the flavour (default "DD.MM.YYYY")
format	flavour; the default is the one set with setFlavour

Details

Invalid input, including NA and the empty string, is an error (version 1.0.0 returned NA).

Value

numeric

Examples

```
monat("02.02.2000") == 2
```

---

setFlavour *setFlavour*

Description

Sets the flavour (date format) used by all functions of the package as long as they are called without their own argument `format`. The setting is valid for the whole R session. Changing it to a different flavour after it has been set once gives a warning. If `setFlavour` is never called, the package works in the format DD.MM.YYYY (`"dmy"`) and returns the same results as version 1.0.0 for every valid input.

Usage

```
setFlavour(flavour)
```

Arguments

`flavour`	`"dmy"` (DD.MM.YYYY), `"iso"` (YYYY-MM-DD) or `"iso_basic"` (YYYYMMDD). The old identifiers `"LP"` (= dmy) and `"VK"` (= iso) are accepted as well.

Value

the flavour that was set (invisibly)

Examples

```
setFlavour( "iso" )
jahr( "2002-02-02" ) == 2002
setFlavour( "dmy" )
```

tag *Function 'tag'*

Description

Extracts the day from a date string as 'numeric'.

Usage

```
tag(datumstring, format = .zustand$name)
```

Arguments

datumstring	date string in the format of the flavour (default "DD.MM.YYYY")
format	flavour; the default is the one set with setFlavour

Details

Invalid input, including NA and the empty string, is an error (version 1.0.0 returned NA).

Value

numeric

Examples

```
tag("03.02.2000") == 3
```

Index

dateAddMonths, 2
dateDiff, 2

flavour, 3

jahr, 4

monat, 4

setFlavour, *2–4*, 5, *6*

tag, 6