Package: theRefdate (via r-universe)

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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

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NeedsCompilation no

Author Prem Lueers [aut, cre] (ORCID: <https://orcid.org/0009-0003-3315-1438>)

Maintainer Prem Lueers <prem@lueers.net>

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`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
```

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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
```

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