Package 'timeperiodsR'

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Type Package	
Title Simple Definition Of Time Intervals	
Version 0.7.3	
License GPL-2	
Author Alexey Seleznev [aut, cre]	
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Description Simple definition of time intervals for the current, previous, and next week, month, quarter and year.	
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Contents	
timeperiodsR-package	2
_ 1	4
check_dayoffs	5
-1	8
	8

last_n_days	9
last_n_months	10
last_n_quarters	12
last_n_weeks	13
last_n_years	15
last_weekend	16
last_workday	17
next_month	17
next_n_days	18
next_n_months	20
next_n_quarters	21
next_n_weeks	
next_n_years	
next_quarter	
next_week	
next_year	
previous_month	
previous_quarter	
previous_week 3	
previous_year	
this_month	
this_quarter	
this_week	
this_year	
tpr_operators	
weekends	40
	41
workdays	42
workdays_length	42
	11
Δ	41/

 ${\tt timeperiodsR-package} \quad \textit{Simple Definition Of Time Intervals}$

Description

Simple definition of time intervals for the current, previous, and next week, month, quarter and year.

Details

Index

The DESCRIPTION file:

Package: timeperiodsR Type: Package

Title: Simple Definition Of Time Intervals

Version: 0.7.3 License: GPL-2 Authors@R: c(person(given = "Alexey", family = "Seleznev", role = c("aut", "cre"), email = "selesnow@gmail.com"))

3

Author: Alexey Seleznev [aut, cre]

Maintainer: Alexey Seleznev <selesnow@gmail.com>

Description: Simple definition of time intervals for the current, previous, and next week, month, quarter and year.

BugReports: https://github.com/selesnow/timeperiodsR/issues

URL: https://selesnow.github.io/timeperiodsR/, https://t.me/R4marketing, https://www.youtube.com/playlist?list=

Imports: lubridate VignetteBuilder: knitr

Suggests: knitr, rmarkdown, httr

Encoding: UTF-8 Language: ru

Index of help topics:

previous_week

previous_year

as_timeperiod Convert date or string vector to timeperiod.

check_dayoffs Check if the day is an official day off

custom_period Custopm period

Get first weekend day in period. first_weekend Get first workday day in period. first_workday Start and end of last n days last_n_days last_n_months Start and end of last n months Start and end of last n quarters last_n_quarters Start and end of last n weeks last_n_weeks Start and end of last n years last_n_vears Get last weekend day in period. last_weekend last_workday Get last workday day in period. next_month Start and end of next month next_n_days Start and end of next n days Start and end of next n months next_n_months Start and end of next n quarters next_n_quarters next_n_weeks Start and end of next n weeks next_n_years Start and end of next n weeks Start and end of next quarter next_quarter Start and end of next week next_week Start and end of next year next_year Start and end of previous month previous_month Start and end of previous quarter previous_quarter

this_month

this_quarter

this_week

this_year

Start and end of month

Start and end of quarter

Start and end of week

Start and end of year

timeperiodsR-package Simple Definition Of Time Intervals

weekends Get vector with weekends.

weekends_length Number of weekdends days in the period.

Start and end of previous week

Start and end of previous year

4 as_timeperiod

```
workdays Get vector with workdays.
workdays_length Number of workdays in the period.
```

Author(s)

Alexey Seleznev [aut, cre]

Maintainer: Alexey Seleznev <selesnow@gmail.com>

as_timeperiod

Convert date or string vector to timeperiod.

Description

Convert any date or string vector to tpr class.

Usage

```
as_timeperiod(x)
```

Arguments

X

Date or string vector

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

See custom_period()

check_dayoffs 5

check_dayoffs	Check if the day is an official day off	

Description

Check any date or date vector for is an official day off or not.

Usage

Including custom dayoffs from options or global variables

Arguments

year	Year for check
month	Month for check
day	Month for check.
date	Date, or date vector for checking
сс	Country, one of ru, ua, kz, by
pre	Including shorter working days, 0 or 1
include_custom_day_offs	

Details

Function use 'isDayOff() API'.

For get official day offs for your country you must install httr package and switch options timeperiodsR.official_day_off to TRUE or set system variable TPR_DAY_OFFS=TRUE.

Now allow next country:

```
ru Russiaua Ukrainekz Kazakhstanby Belarus
```

Also you can set default country by options or systen envarible:

```
option timeperiodsR.official_day_offs_country
system variable TPR_COUNTRY
```

6 custom_period

And you can include or exclude shorter working days. Using option timeperiodsR.official_day_offs_pre:

- 0 Exclude shorter work days
- 1 Include shorter work days

Day marks:

- 0 Workday
- 1 Day off
- 2 Shorten day off
- 3 Custom day off

You can set your custom day offs, for example it can be your vacation. Using option timeperiodsR.custom_day_offs or system variable TPR_CUSTOM_DAY_OFFS. In TPR_CUSTOM_DAY_OFFS you can set custom day offs like comma or semicolon list of dates in format YYYY-MM-DD.

Value

Named vector with date and marks

Author(s)

Alexey Seleznev

References

Official documentation for isDayOff API

Examples

```
ld <- next_n_weeks(n = 2)
check_dayoffs(date = ld)</pre>
```

custom_period

Custopm period

Description

Create tpr object between start and end dates

Usage

custom_period 7

Arguments

start	Start date in YYYY-MM-DD format
end	End date in YYYY-MM-DD format
part	Part of period you need to receive, one of "all", "start", "end", "sequence", "length", "workdays", "weekends", "first_workday", "last_workday", "first_weekend", "last_weekend", "length". See details.

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

first_workday

first_weekend

Get first weekend day in period.

Description

Method for get first weekend in timeperiod.

Usage

```
first_weekend(x)
```

Arguments

Х

tpr object or date vector

Value

Vector of dates

Author(s)

Alexey Seleznev

Examples

```
pm <- previous_month()
# get first weekend
pm_first_weekend <- first_weekend(pm)</pre>
```

first_workday

Get first workday day in period.

Description

Method for get first workday in timeperiod.

Usage

```
first_workday(x)
```

Arguments

Х

tpr object or date vector

Value

Vector of dates

last_n_days 9

Author(s)

Alexey Seleznev

Examples

```
pm <- previous_month()
# get first workday
pm_first_workday <- first_workday(pm)</pre>
```

last_n_days

Start and end of last n days

Description

Defines first and last date in previous period

Usage

Arguments

x Date object

n Number of periods for offset

part Part of period you need to receive, one of "all", "start", "end", "sequence", "length".

See details.

include_current

If TRUE incliding current period in sequence

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

last_n_months

Author(s)

Alexey Seleznev

See Also

For get next other periods see last_n_quarters(), last_n_months(), last_n_years(), last_n_weeks()

Examples

```
## To get start, end and sequence of last 10 days,
## exclude today
last10days <- last_n_days(n = 10)

## include today
last10days_2 <- last_n_days(n = 10, include_current = TRUE)

## To get vector of date sequences
last_n_days(n = 10, part = "sequence")
last_n_days(n = 10)$sequence
seq(last10days)</pre>
```

 $last_n_months$

Start and end of last n months

Description

Defines first and last date in previous period

Usage

Arguments

x Date object

n Number of periods for offset

part Part of period you need to receive, one of "all", "start", "end", "sequence", "length".

See details.

include_current

If TRUE incliding current period in sequence

last_n_months 11

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see last_n_quarters(), last_n_days(), last_n_years(), last_n_weeks()

```
## To get start, end and sequence of last 2 months,
## exclude current month
last2month <- last_n_months(n = 2)

## include current month
last2month_2 <- last_n_months(n = 2, include_current = TRUE)

## To get vector of date sequences
last_n_months(n = 2, part = "sequence")
last_n_months(n = 2)$sequence
seq(last2month)

## Get number of days of last 2 months
day_nums <- last_n_months(n = 2, part = "length")
last_n_months()$length
length(last2month)</pre>
```

last_n_quarters

last_n_quarters	Start and end of last n quarters
Tabe_n_qaar eer b	Start and end of tast it quarters

Description

Defines first and last date in previous period

Usage

Arguments

x Date object

n Number of periods for offset

part Part of period you need to receive, one of "all", "start", "end", "sequence", "length".

See details.

include_current

If TRUE incliding current period in sequence

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- · start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see last_n_months(), last_n_days(), last_n_years(), last_n_weeks()

last_n_weeks

Examples

```
## To get start, end and sequence of last 2 quarters,
## exclude current quarter
last2quarters <- last_n_quarters(n = 2)

## include current quarter
last2quarters_2 <- last_n_quarters(n = 2, include_current = TRUE)

## To get vector of date sequences
last_n_quarters(n = 2, part = "sequence")
last_n_quarters(n = 2)$sequence
seq(last2quarters)

## Get number of days of last 2 quarters
day_nums <- last_n_quarters(n = 2, part = "length")
last_n_quarters()$length
length(last2quarters)</pre>
```

last_n_weeks

Start and end of last n weeks

Description

Defines first and last date in previous period

Usage

Arguments

X	Date object
n	Number of periods for offset
part	Part of period you need to receive, one of "all", "start", "end", "sequence", "length". See details.
week_start	Start of week, default = 1 is Monday, 7 is Sunday
include current	

If TRUE incliding current period in sequence

last_n_weeks

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see last_n_months(), last_n_days(), last_n_years(), last_n_quarters()

```
## To get start, end and sequence of last 2 weeks,
## exclude current week
last2weeks <- last_n_weeks(n = 2)

## include current week
last2weeks_2 <- last_n_weeks(n = 2, include_current = TRUE)

## Get last 2 week with start on Sunday
lastWeek <- last_n_weeks(n = 2, week_start = 7)

## To get vector of date sequences
last_n_weeks(n = 2, part = "sequence")
last_n_weeks(n = 2)$sequence
seq(last2weeks)

## Get number of days of last 2 weeks
day_nums <- last_n_weeks(n = 2, part = "length")
last_n_weeks()$length
length(last2weeks)</pre>
```

last_n_years 15

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- 1	ast	n	vears

Start and end of last n years

Description

Defines first and last date in previous period

Usage

Arguments

x Date object

n Number of periods for offset

part Part of period you need to receive, one of "all", "start", "end", "sequence", "length".

See details.

include_current

If TRUE incliding current period in sequence

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- · start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see last_n_months(), last_n_days(), last_n_weeks(), last_n_quarters()

last_weekend

Examples

```
## To get start, end and sequence of last 2 years,
## exclude current year
last2years <- last_n_years(n = 2)

## include current year
last2years_2 <- last_n_years(n = 2, include_current = TRUE)

## To get vector of date sequences
last_n_years(n = 2, part = "sequence")
last_n_years(n = 2)$sequence
seq(last2years)

## Get number of days of last 2 years
day_nums <- last_n_years(n = 2, part = "length")
last_n_years()$length
length(last2years)</pre>
```

last_weekend

Get last weekend day in period.

Description

Method for get last weekend in timeperiod.

Usage

```
last_weekend(x)
```

Arguments

X

tpr object or date vector

Value

Vector of dates

Author(s)

Alexey Seleznev

```
pm <- previous_month()
# get last weekend
pm_last_weekend <- last_weekend(pm)</pre>
```

last_workday 17

last_workday

Get last workday day in period.

Description

Method for get last workday in timeperiod.

Usage

```
last_workday(x)
```

Arguments

Χ

tpr object or date vector

Value

Vector of dates

Author(s)

Alexey Seleznev

Examples

```
pm <- previous_month()
# get last workday
pm_last_workday <- last_workday(pm)</pre>
```

next_month

Start and end of next month

Description

Defines first and last date in next month and all dates in month

Usage

Arguments

x Date object

n Number of periods for offset

Part of period you need to receive, one of "all", "start", "end", "sequence", "length".

See details.

next_n_days

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see next_week(), next_quarter(), next_year()

Examples

```
## To get start, end and sequence of next month
nextmonth <- next_month()

## To get vector of date sequences
next_month(part = "sequence")
next_month()$sequence
seq(nextmonth)

## Get number of days of next months
day_nums <- next_month(part = "length")
next_month()$length
length(nextmonth)</pre>
```

next_n_days

Start and end of next n days

Description

Defines first and last date in next period

next_n_days 19

Usage

Arguments

x Date object

n Number of periods for offset

part Part of period you need to receive, one of "all", "start", "end", "sequence", "length".

See details.

include_current

If TRUE incliding current period in sequence

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see next_n_quarters(), next_n_months(), next_n_years(), next_n_weeks()

```
## To get start, end and sequence of next 10 days,
## exclude today
next10days <- next_n_days(n = 10)
## include today
next10days_2 <- next_n_days(n = 10, include_current = TRUE)
## To get vector of date sequences</pre>
```

20 next_n_months

```
next_n_days(n = 10, part = "sequence")
next_n_days(n = 10)$sequence
seq(next10days)
```

next_n_months

Start and end of next n months

Description

Defines first and last date in next period

Usage

Arguments

x Date object

n Number of periods for offset

part Part of period you need to receive, one of "all", "start", "end", "sequence", "length".

See details.

include_current

If TRUE incliding current period in sequence

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

next_n_quarters 21

See Also

For get next other periods see next_n_quarters(), next_n_days(), next_n_years(), next_n_weeks()

Examples

```
## To get start, end and sequence of next 2 months,
## exclude current month
next2month <- next_n_months(n = 2)

## include current month
next2month_2 <- next_n_months(n = 2, include_current = TRUE)

## To get vector of date sequences
next_n_months(n = 2, part = "sequence")
next_n_months(n = 2)$sequence
seq(next2month)

## Get number of days of next 2 months
day_nums <- next_n_months(part = "length")
next_n_months()$length
length(next2month)</pre>
```

next_n_quarters

Start and end of next n quarters

Description

Defines first and last date in next period

Usage

Arguments

x Date object

n Number of periods for offset

part Part of period you need to receive, one of "all", "start", "end", "sequence", "length".

See details.

include_current

If TRUE incliding current period in sequence

22 next_n_quarters

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see next_n_months(), next_n_days(), next_n_years(), next_n_weeks()

```
## To get start, end and sequence of next 2 quarters,
## exclude current quarter
next2quarters <- next_n_quarters(n = 2)

## include current quarter
next2quarters_2 <- next_n_quarters(n = 2, include_current = TRUE)

## To get vector of date sequences
next_n_quarters(n = 2, part = "sequence")
next_n_quarters(n = 2)$sequence
seq(next2quarters)

## Get number of days of next 2 quarters
day_nums <- next_n_quarters(part = "length")
next_n_quarters()$length
length(next2quarters)</pre>
```

next_n_weeks 23

next	n	weeks	
	'' ''	_WCCK3	

Start and end of next n weeks

Description

Defines first and last date in next period

Usage

Arguments

x Date object

n Number of periods for offset

Part of period you need to receive, one of "all", "start", "end", "sequence", "length".

See details.

week_start Start of week, default = 1 is Monday, 7 is Sunday

include_current

If TRUE incliding current period in sequence

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

24 next_n_years

See Also

For get next other periods see last_n_months(), last_n_days(), last_n_years(), last_n_quarters()

Examples

```
## To get start, end and sequence of next 2 weeks,
## exclude current week
next2weeks <- next_n_weeks(n = 2)

## include current week
next2weeks_2 <- next_n_weeks(n = 2, include_current = TRUE)

## Get next 2 week with start on Sunday
nextWeek <- next_n_weeks(n = 2, week_start = 7)

## To get vector of date sequences
next_n_weeks(n = 2, part = "sequence")
next_n_weeks(n = 2)$sequence
seq(next2weeks)

## Get number of days of next 2 weeks
day_nums <- next_n_weeks(part = "length")
next_n_weeks()$length
length(next2weeks)</pre>
```

next_n_years

Start and end of next n weeks

Description

Defines first and last date in next period

Usage

Arguments

```
x Date object

n Number of periods for offset

part Part of period you need to receive, one of "all", "start", "end", "sequence", "length". See details.

include_current
```

If TRUE incliding current period in sequence

next_n_years 25

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see next_n_months(), next_n_days(), next_n_quarters(), next_n_weeks()

```
## To get start, end and sequence of next 2 years,
## exclude current year
next2years <- next_n_years(n = 2)

## include current year
next2years_2 <- next_n_years(n = 2, include_current = TRUE)

## To get vector of date sequences
next_n_years(n = 2, part = "sequence")
next_n_years(n = 2)$sequence
seq(next2years)

## Get number of days of next 2 years
day_nums <- next_n_years(part = "length")
next_n_years()$length
length(next2years)</pre>
```

26 next_quarter

next	quarter	-
IIC A L	uuai tei	

Start and end of next quarter

Description

Defines first and last date in n next quarter

Usage

Arguments

X	Date object
n	Number of periods for offset
part	Part of period you need to receive, one of "all", "start", "end", "sequence", "length".

See details.

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see next_week(), next_month(), next_year()

next_week 27

Examples

```
## To get start, end and sequence of next quarter
nextquarter <- next_quarter()

## To get vector of date sequences
next_quarter(part = "sequence")
next_quarter()$sequence
seq(nextquarter)

## Get number of days of next quarter
day_nums <- next_quarter(part = "length")
next_quarter()$length
length(nextquarter)</pre>
```

next_week

Start and end of next week

Description

Defines first and next date in n next week

Usage

Arguments

x Date object

n Number of periods for offset

part Part of period you need to receive, one of "all", "start", "end", "sequence", "length".

See details.

week_start Start of week, default = 1 is Monday, 7 is Sunday

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only next date of period
- start get vector of all dates in period
- length get number of dates in period

28 next_year

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see next_month(), next_quarter(), next_year()

Examples

```
## To get start, end and sequence of next weeks
nextweek <- next_week()

## Get next week with start on Sunday
nextweeksun <- next_week(week_start = 7)

## To get vector of date sequences
next_week(part = "sequence")
next_week()$sequence
seq(nextweek)

## Get number of days of next 2 weeks
day_nums <- next_week(part = "length")
next_week()$length
length(nextweek)</pre>
```

next_year

Start and end of next year

Description

Defines first and last date in n next year

Usage

Arguments

x Date object

n Number of periods for offset

Part of period you need to receive, one of "all", "start", "end", "sequence", "length".

See details.

previous_month 29

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see next_month(), next_quarter(), next_week()

Examples

```
## To get start, end and sequence of next year
nextyear <- next_year()

## To get vector of date sequences
next_year(part = "sequence")
next_year()$sequence
seq(nextyear)

## Get number of days of next year
day_nums <- next_year(part = "length")
next_year()$length
length(nextyear)</pre>
```

previous_month

Start and end of previous month

Description

Defines first and last date in n previous month

Usage

previous_month

Arguments

X	Date object
n	Number of periods for offset
part	Part of period you need to receive, one of "all", "start", "end", "sequence", "length". See details.

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see previous_week(), previous_quarter(), previous_year()

```
## To get start, end and sequence of previous month
previousmonth <- previous_month()

## To get vector of date sequences
previous_month(part = "sequence")
previous_month()$sequence
seq(previousmonth)

## Get number of days of previous months
day_nums <- previous_month(part = "length")
previous_month()$length
length(previousmonth)</pre>
```

previous_quarter 31

previous_	quarter
pi cvious_	_quai tei

Start and end of previous quarter

Description

Defines first and last date in n previous quarter

Usage

Arguments

X	Date object

n Number of periods for offset

part Part of period you need to receive, one of "all", "start", "end", "sequence", "length".

See details.

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see previous_week(), previous_month(), previous_year()

32 previous_week

Examples

```
## To get start, end and sequence of previous quarter
previousquarter <- previous_quarter()

## To get vector of date sequences
previous_quarter(part = "sequence")
previous_quarter()$sequence
seq(previousquarter)

## Get number of days of previous quarter
day_nums <- previous_quarter(part = "length")
previous_quarter()$length
length(previousquarter)</pre>
```

previous_week

Start and end of previous week

Description

Defines first and last date in n previous week

Usage

Arguments

x Date object

n Number of periods for offset

part Part of period you need to receive, one of "all", "start", "end", "sequence", "length". See details.

week_start Start of week, default = 1 is Monday, 7 is Sunday

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

previous_year 33

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see previous_quarter(), previous_month(), previous_year()

Examples

```
## To get start, end and sequence of previous weeks
previousweek <- previous_week()

## Get previous week with start on Sunday
previousweeksun <- previous_week(week_start = 7)

## To get vector of date sequences
previous_week(part = "sequence")
previous_week()$sequence
seq(previousweek)

## Get number of days of previous 2 weeks
day_nums <- previous_week(part = "length")
previous_week()$length
length(previousweek)</pre>
```

previous_year

Start and end of previous year

Description

Defines first and last date in n previous year

Usage

Arguments

x Date object

n Number of periods for offset

part Part of period you need to receive, one of "all", "start", "end", "sequence", "length".

See details.

34 this_month

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see previous_week(), previous_month(), previous_quarter()

Examples

```
## To get start, end and sequence of previous year
previousyear <- previous_year()

## To get vector of date sequences
previous_year(part = "sequence")
previous_year()$sequence
seq(previousyear)

## Get number of days of previous year
day_nums <- previous_year(part = "length")
previous_year()$length
length(previousyear)</pre>
```

this_month

Start and end of month

Description

Defines first and last date in month

Usage

this_month 35

Arguments

x Date object

part Part of period you need to receive, one of "all", "start", "end", "sequence", "length".

See details.

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see this_week(), this_quarter(), this_year()

```
## To get start, end and sequence of this month
thismonth <- this_month()

## To get vector of date sequences
this_month(part = "sequence")
this_month()$sequence
seq(thismonth)

## Get number of days of this months
day_nums <- this_month(part = "length")
this_month()$length
length(thismonth)</pre>
```

36 this_quarter

this_quarter

Start and end of quarter

Description

Defines first and last date in quarter

Usage

Arguments

x Date object

part Part of period you need to receive, one of "all", "start", "end", "sequence", "length".

See details.

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see this_week(), this_month(), this_year()

this_week 37

Examples

```
## To get start, end and sequence of this quarter
thisquarter <- this_quarter()

## To get vector of date sequences
this_quarter(part = "sequence")
this_quarter()$sequence
seq(thisquarter)

## Get number of days of this quarter
day_nums <- this_quarter(part = "length")
this_quarter()$length
length(thisquarter)</pre>
```

this_week

Start and end of week

Description

Defines first and last date in week

Usage

Arguments

x Date object

Part of period you need to receive, one of "all", "start", "end", "sequence", "length".

See details.

week_start Start of week, default = 1 is Monday, 7 is Sunday

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

38 this_year

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see this_quarter(), this_month(), this_year()

Examples

```
## To get start, end and sequence of this weeks
thisweek <- this_week()

## Get this week with start on Sunday
thisweeksun <- this_week(week_start = 7)

## To get vector of date sequences
this_week(part = "sequence")
this_week()$sequence
seq(thisweek)

## Get number of days of this 2 weeks
day_nums <- this_week(part = "length")
this_week()$length
length(thisweek)</pre>
```

this_year

Start and end of year

Description

Defines first and last date in year

Usage

Arguments

x Date object

part Part of period you need to receive, one of "all", "start", "end", "sequence", "length".

See details.

tpr_operators 39

Details

You can get object of tpr class with all components or specify which component you need, use part for manage this option:

- all get all components
- start get only first date of period
- end get only last date of period
- start get vector of all dates in period
- length get number of dates in period

Value

Object of tpr class

Author(s)

Alexey Seleznev

See Also

For get next other periods see this_week(), this_month(), this_year()

Examples

```
## To get start, end and sequence of this year
thisyear <- this_year()

## To get vector of date sequences
this_year(part = "sequence")
this_year()$sequence
seq(thisyear)

## Get number of days of this year
day_nums <- this_year(part = "length")
this_year()$length
length(thisyear)</pre>
```

tpr_operators

Operators of tpr objects.

Description

Filtring timeperiods operators.

40 weekends

Usage

```
x %.in% y
x %left_in% y
x %left_out% y
x %right_in% y
x %right_out% y
```

Arguments

```
x left Date or tpr objecty Right tpr object.
```

Value

Date sequence or logical vector

Author(s)

Alexey Seleznev

See Also

For get more examples see vignette: vignette("tpr_intro", package = "timeperiodsR")

Examples

```
period1 <- this_month("2019-11-07")
period2 <- previous_week("2019-11-07")
period1
period1
period1
period1
period1</pre>
```

weekends

Get vector with weekends.

Description

Method for get vector of weekends from timeperiod.

Usage

```
weekends(x)
```

Arguments

x tpr object or date vector

weekends_length 41

Value

Vector of dates

Author(s)

Alexey Seleznev

Examples

```
pm <- previous_month()
# get weekends
pm_weekends <- weekends(pm)</pre>
```

weekends_length

Number of weekdends days in the period.

Description

Method for get number of weekdays days in period. Weekends is suturday and sunday.

Usage

```
weekends_length(x)
```

Arguments

Х

tpr object or date vector

Value

Integer

Author(s)

Alexey Seleznev

```
pm <- previous_month()
# weekends day number
pm_wd_len <- weekends_length(pm)</pre>
```

42 workdays_length

workdays

Get vector with workdays.

Description

Method for get vector of workdays from timeperiod.

Usage

```
workdays(x)
```

Arguments

Х

tpr object or date vector

Value

Vector of dates

Author(s)

Alexey Seleznev

Examples

```
pm <- previous_month()
# get workdays
pm_workdays <- workdays(pm)</pre>
```

workdays_length

Number of workdays in the period.

Description

Method for get number of workdays in period. workdays is monday - friday.

Usage

```
workdays_length(x)
```

Arguments

Χ

tpr object or date vector

Value

Integer

workdays_length 43

Author(s)

Alexey Seleznev

```
pm <- previous_month()
# workdays number
pm_wd_len <- workdays_length(pm)</pre>
```

Index

<pre>%.in%(tpr_operators), 39 %left_in%(tpr_operators), 39 %left_out%(tpr_operators), 39 %right_in%(tpr_operators), 39 %right_out%(tpr_operators), 39</pre>	next_quarter(), 18, 28, 29 next_week, 27 next_week(), 18, 26, 29 next_year, 28 next_year(), 18, 26, 28
<pre>as_timeperiod, 4 check_dayoffs, 5 custom_period, 6 custom_period(), 4 first_weekend, 8 first_workday, 8</pre>	previous_month, 29 previous_month(), 31, 33, 34 previous_quarter, 31 previous_quarter(), 30, 33, 34 previous_week, 32 previous_week(), 30, 31, 34 previous_year, 33 previous_year(), 30, 31, 33
last_n_days, 9 last_n_days(), 11, 12, 14, 15, 24 last_n_months, 10 last_n_months(), 10, 12, 14, 15, 24 last_n_quarters, 12 last_n_quarters(), 10, 11, 14, 15, 24 last_n_weeks, 13 last_n_weeks(), 10-12, 15 last_n_years, 15 last_n_years(), 10-12, 14, 24 last_weekend, 16 last_workday, 17	this_month, 34 this_month(), 36, 38, 39 this_quarter, 36 this_quarter(), 35, 38 this_week, 37 this_week(), 35, 36, 39 this_year, 38 this_year(), 35, 36, 38, 39 timeperiodsR(timeperiodsR-package), 2 timeperiodsR-package, 2 tpr_operators, 39
next_month, 17 next_month(), 26, 28, 29 next_n_days, 18 next_n_days(), 21, 22, 25 next_n_months, 20 next_n_months(), 19, 22, 25 next_n_quarters, 21 next_n_quarters(), 19, 21, 25 next_n_weeks, 23 next_n_weeks(), 19, 21, 22, 25 next_n_years, 24 next_n_years(), 19, 21, 22 next_quarter, 26	weekends, 40 weekends_length, 41 workdays, 42 workdays_length, 42