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] 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=PLD2LDq8edf4qed2KVKfXmKdh0OQcdj9gw Imports lubridate VignetteBuilder knitr Suggests knitr, rmarkdown, httr **Encoding** UTF-8 Language ru NeedsCompilation no **Repository** CRAN

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timeperiodsR-package Simple Definition Of Time Intervals

Description

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

Details

The DESCRIPTION file:

Package:	timeperiodsR
Type:	Package
Title:	Simple Definition Of Time Intervals
Version:	0.7.3
License:	GPL-2

timeperiodsR-package

Authors@R:	c(person(given = "Alexey", family = "Seleznev", role = c("aut", "cre"), email = "selesnow@gmail.com"))
Author:	Alexey Seleznev [aut, cre]
Maintainer:	Alexey Seleznev <selesnow@gmail.com></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:

as_timeperiod	Convert date or string vector to timeperiod.
check_dayoffs	Check if the day is an official day off
custom_period	Custopm period
first_weekend	Get first weekend day in period.
first_workday	Get first workday day in period.
last_n_days	Start and end of last n days
last_n_months	Start and end of last n months
last_n_quarters	Start and end of last n quarters
last_n_weeks	Start and end of last n weeks
last_n_years	Start and end of last n years
last_weekend	Get last weekend day in period.
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
next_n_months	Start and end of next n months
next_n_quarters	Start and end of next n quarters
next_n_weeks	Start and end of next n weeks
next_n_years	Start and end of next n weeks
next_quarter	Start and end of next quarter
next_week	Start and end of next week
next_year	Start and end of next year
previous_month	Start and end of previous month
previous_quarter	Start and end of previous quarter
previous_week	Start and end of previous week
previous_year	Start and end of previous year
this_month	Start and end of month
this_quarter	Start and end of quarter
this_week	Start and end of week
this_year	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.

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()

Examples

dates_tpr <- as_timeperiod(dates)</pre>

check_dayoffs

Description

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

Usage

```
check_dayoffs(date = NULL,
    year = NULL,
    month = NULL,
    day = NULL,
    cc = getOption("timeperiodsR.official_day_offs_country"),
    pre = getOption("timeperiodsR.official_day_offs_pre"),
    include_custom_day_offs = TRUE)
```

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		
	Including custom dayoffs from options or global variables	

Details

Function use 'isDayOff() API'.

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

Now allow next country:

ru Russia

ua Ukraine

kz Kazakhstan

by Belarus

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

option timeperiodsR.official_day_offs_country

system variable TPR_COUNTRY

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

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

Examples

To get vector of date sequences
seq(customper)

Get number of days of previous months
length(customper)

To get start of end dates
start(customper)
end(customper)

first_weekend

Description

Method for get first weekend in timeperiod.

Usage

first_weekend(x)

Arguments ×

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

x tpr object or date vector

Value

Vector of dates

last_n_days

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

х	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_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)
```

last_n_months Start and end of last n months

Description

Defines first and last date in previous period

Usage

Arguments

х	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

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()

Examples

```
## 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)
```

last_n_quarters Start and end of last n quarters

Description

Defines first and last date in previous period

Usage

Arguments

х	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_curren	t

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)
```

last_n_weeks

Start and end of last n weeks

Description

Defines first and last date in previous period

Usage

Arguments

х	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

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

length(last2weeks)

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 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
```

last_n_years

Description

Defines first and last date in previous period

Usage

Arguments

х	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()

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)
```

last_weekend

Get last weekend day in period.

Description

Method for get last weekend in timeperiod.

Usage

last_weekend(x)

Arguments

х

tpr object or date vector

Value

Vector of dates

Author(s)

Alexey Seleznev

Examples

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

last_workday

Description

Method for get last workday in timeperiod.

Usage

last_workday(x)

Arguments

x 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

х	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_quarter(), next_year()

Examples

To get start, end and sequence of next month
nextmonth <- next_month()</pre>

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

Usage

Arguments

х	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()

Examples

```
## 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
```

```
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

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)
```

next_n_quarters Start and end of next n quarters

Description

Defines first and last date in next period

Usage

Arguments

х	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_months(), next_n_days(), next_n_years(), next_n_weeks()

Examples

```
## 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)
```

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 TDITE is all disc assument a said in a surger of

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_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)
```

next_n_years Start and end of next n weeks

Description

Defines first and last date in next period

Usage

Arguments

х	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

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()

Examples

```
## 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)
```

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

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)

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

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)
```

next_year

Start and end of next year

Description

Defines first and last date in n next year

Usage

Arguments

х	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.

previous_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 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)
```

previous_month Start and end of previous month

Description

Defines first and last date in n previous month

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_quarter(), previous_year()

Examples

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

```
## 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 Start and end of previous quarter

Description

Defines first and last date in n previous quarter

Usage

Arguments

х	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()

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)
```

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

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)</pre>
```

```
## 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

х	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_quarter()

Examples

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

```
## 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)
```

this_month Start and end of month

Description

Defines first and last date in month

Usage

this_month

Arguments

х	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()

Examples

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

```
## 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>
```

this_quarter

Description

Defines first and last date in quarter

Usage

Arguments

х	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

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)
```

this_week

Start and end of week

Description

Defines first and last date in week

Usage

Arguments

Х	Date object
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

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

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

tpr_operators

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()</pre>
```

```
## 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)
```

tpr_operators Operators of tpr objects.

Description

Filtring timeperiods operators.

weekends

Usage

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

Arguments

х	left Date or tpr object
У	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

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

x tpr object or date vector

Value

Integer

Author(s)

Alexey Seleznev

Examples

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

workdays

Description

Method for get vector of workdays from timeperiod.

Usage

workdays(x)

Arguments ×

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

x tpr object or date vector

Value

Integer

workdays_length

Author(s)

Alexey Seleznev

Examples

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

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