# Package: timeperiodsR (via r-universe)

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Type Package
<b>Title</b> Simple Definition Of Time Intervals
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<b>Description</b> Simple definition of time intervals for the current, previous, and next week, month, quarter and year.
BugReports https://github.com/selesnow/timeperiodsR/issues
<pre>URL https://selesnow.github.io/timeperiodsR/,</pre>
https://t.me/R4marketing,
https://www.youtube.com/playlist?list=PLD2LDq8edf4qed2KVKfXmKdh0OQcdj9gw
Imports lubridate
VignetteBuilder knitr
Suggests knitr, rmarkdown, httr
Encoding UTF-8
Language ru
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 ${\tt timeperiodsR-package} \quad \textit{Simple Definition Of Time Intervals}$ 

# Description

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

# **Details**

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as\_timeperiod 3

# 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

х

Date or string vector

# Value

Object of tpr class

# Author(s)

Alexey Seleznev

#### See Also

See custom\_period()

check\_dayoffs

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

# 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 httr package 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:

```
{\bf option} \ \ time periods R. of ficial\_day\_offs\_country
```

```
system variable TPR_COUNTRY
```

custom\_period 5

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

6 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

first\_weekend 7

first\_weekend

Get first weekend day in period.

# Description

Method for get first weekend in timeperiod.

# Usage

```
first_weekend(x)
```

# **Arguments**

Χ

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

8 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**

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 9

#### 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 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()

```
## 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 11

# **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

last\_n\_years

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 15

#### **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>
```

next\_month

last\_workday

Get last workday day in period.

#### **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

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.

next\_n\_days 17

# **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

#### 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>
```

next\_n\_months 19

```
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 objectn 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

20 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)</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

next\_n\_quarters 21

#### **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>
```

22 next\_n\_weeks

next\_n\_weeks

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

next\_n\_years 23

#### 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
```

24 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()

```
## 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>
```

next\_quarter 25

novt	quarter
$next_{-}$	_quarter

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()

26 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)</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

next\_year 27

# 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.

28 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)</pre>
```

previous\_month

Start and end of previous month

# Description

Defines first and last date in n previous month

#### Usage

previous\_month 29

# **Arguments**

Χ	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>
```

30 previous\_quarter

previous\_quarter

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()

previous\_week 31

#### **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

32 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)

## 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.

this\_month 33

#### **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

34 this\_month

# **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>
```

this\_quarter 35

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()

36 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)</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

this\_year 37

# 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.

38 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()

## 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.

weekends 39

# 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

40 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

Χ

tpr object or date vector

# Value

Integer

#### Author(s)

Alexey Seleznev

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

workdays 41

workdays

Get vector with workdays.

# Description

Method for get vector of workdays from timeperiod.

# Usage

```
workdays(x)
```

# **Arguments**

Χ

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

42 workdays\_length

# Author(s)

Alexey Seleznev

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

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