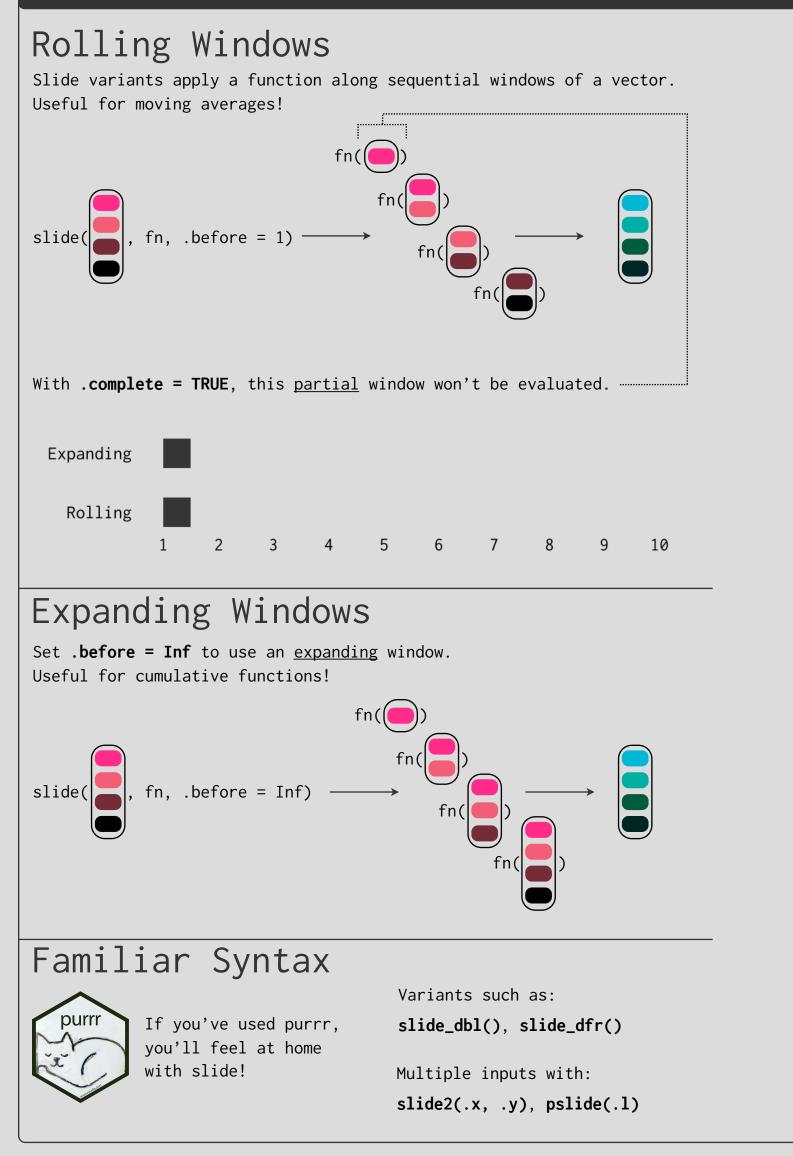
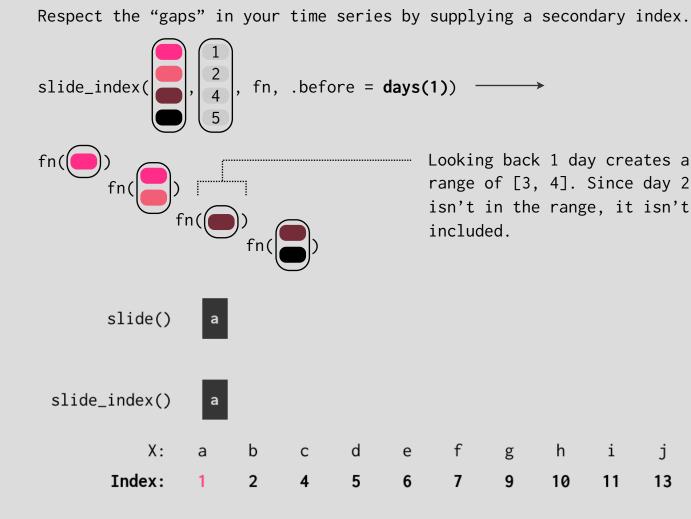
Sliding Windows and Calendars

{slider} - rstd.io/slider



Time-Aware Sliding



included

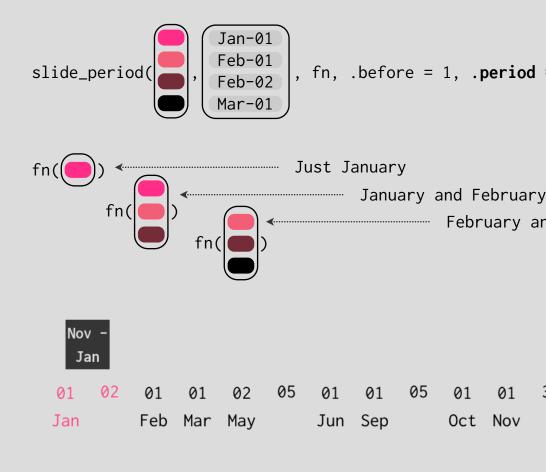
fg

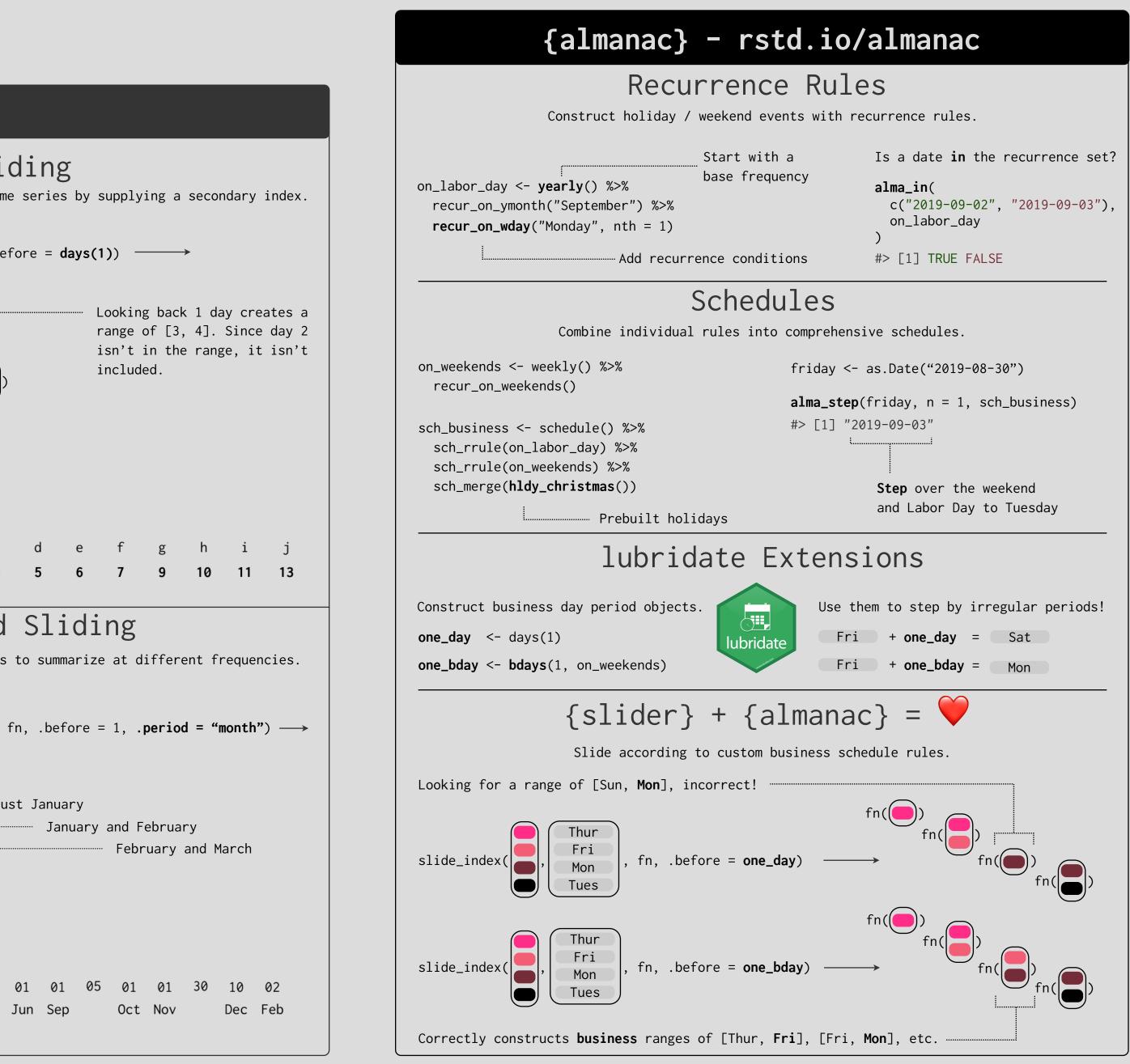
01 01

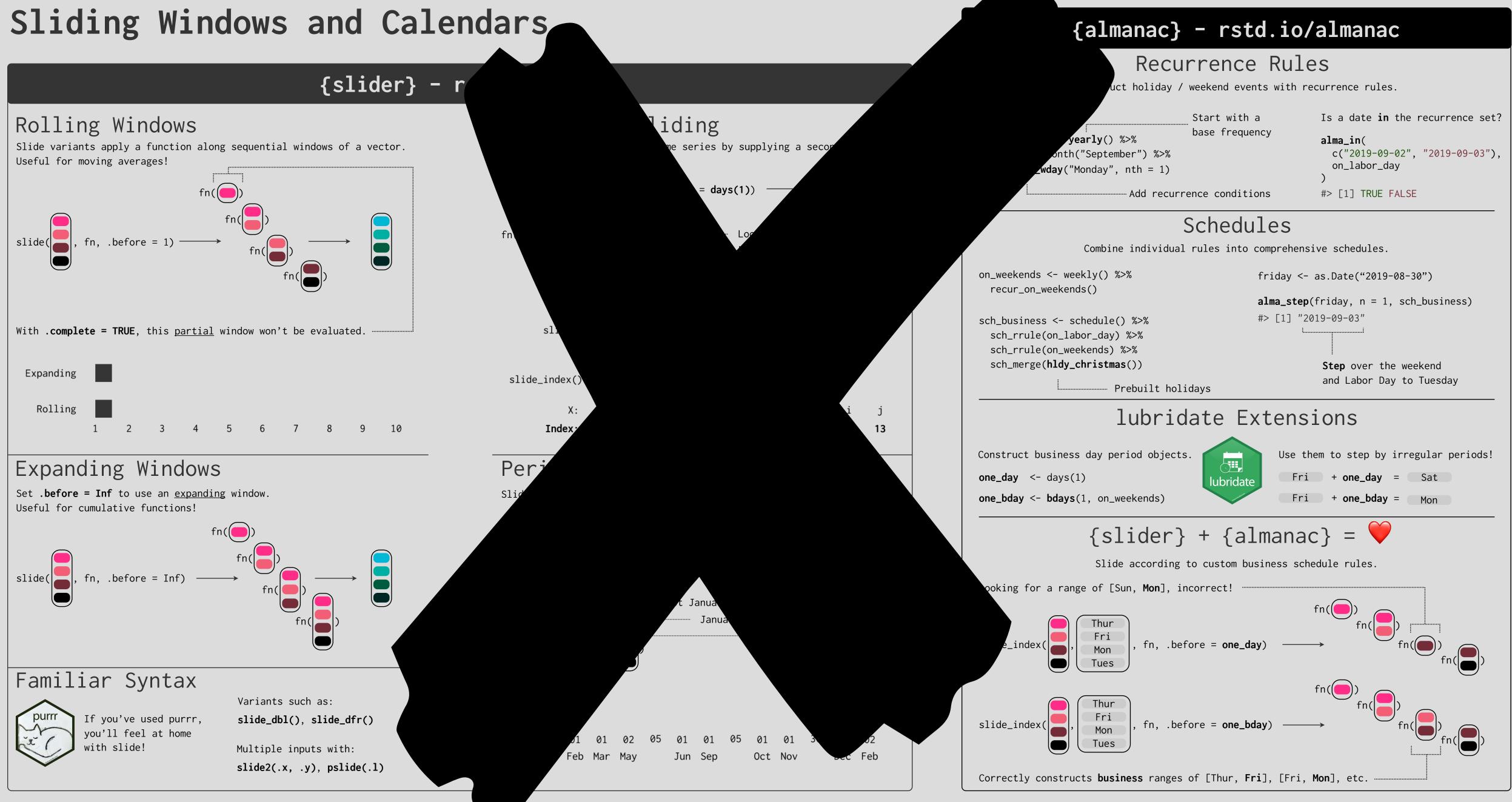
Oct Nov

Period-Blocked Sliding

Slide in rolling period chunks to summarize at different frequencies.

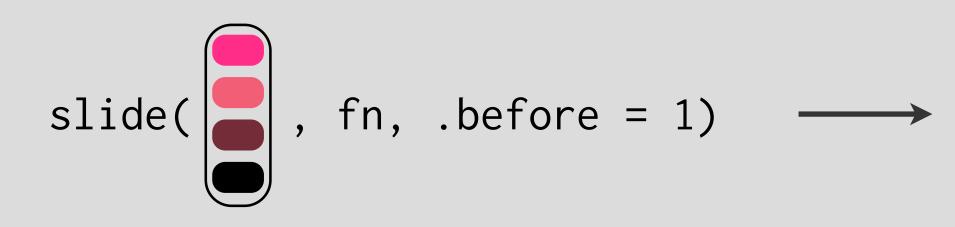






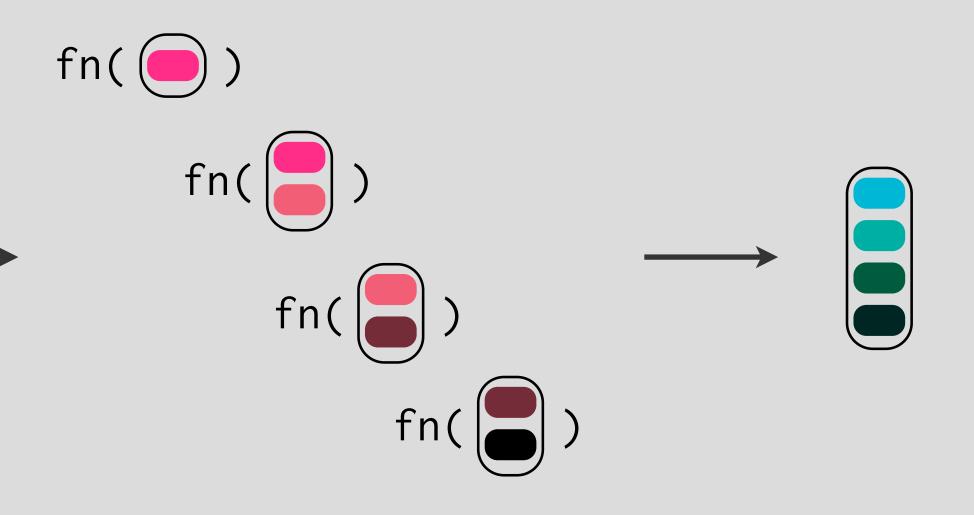
Rolling & Expanding Windows

Slide variants apply a function along sequential windows of a vector. Useful for moving averages!

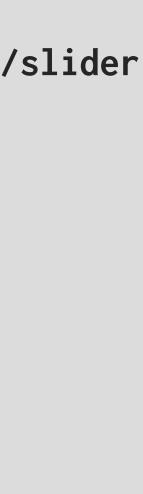




{slider} - rstd.io/slider



4 5 6 7 8 9 10



Familiar Syntax



If you've used purrr, you'll feel at home with slide!

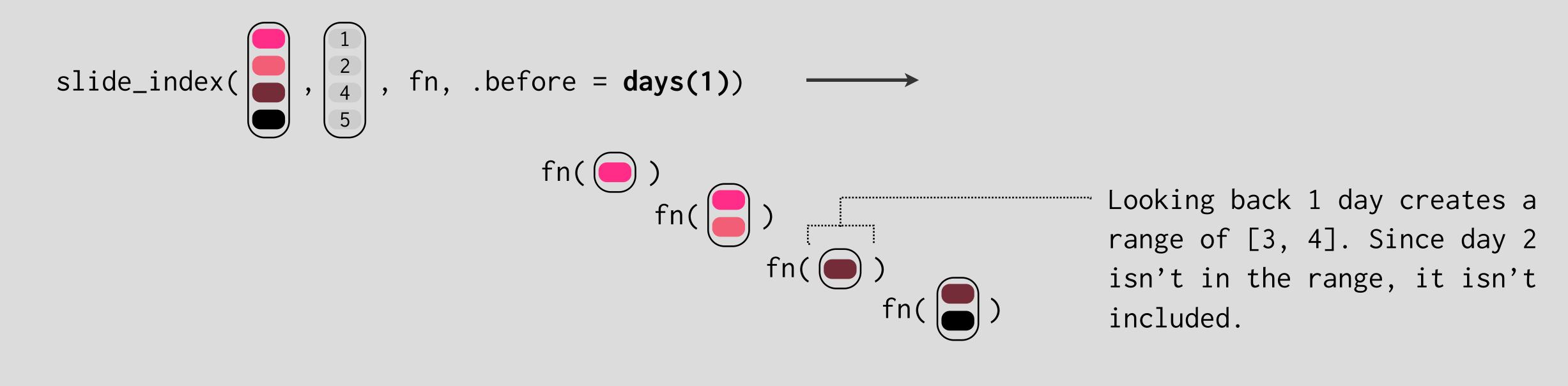


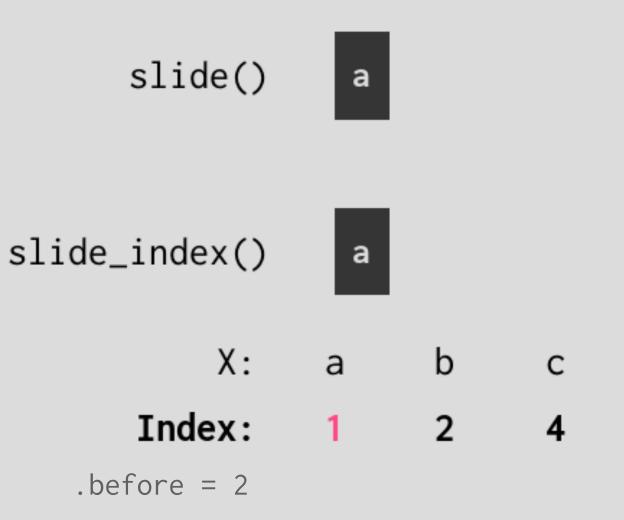
Variants such as: slide_dbl(), slide_dfr()

Multiple inputs with: slide2(.x, .y), pslide(.l)

Time-Aware Sliding

Respect the "gaps" in your time series by supplying a secondary index.







Recurrence Rules

Construct holiday / weekend events with recurrence rules.

Start with a base frequency

on_labor_day <- yearly() %>%
recur_on_ymonth("September") %>%
recur_on_wday("Monday", nth = 1)

Add recurrence conditions

```
{almanac} - rstd.io/almanac
```

Is a date **in** the recurrence set?

alma_in(c("2019-09-02", "2019-09-03"), on_labor_day) #> [1] TRUE FALSE

lubridate Extensions

Construct business day period objects.

one_day <- days(1)</pre>

one_bday <- bdays(1, on_weekends)</pre>



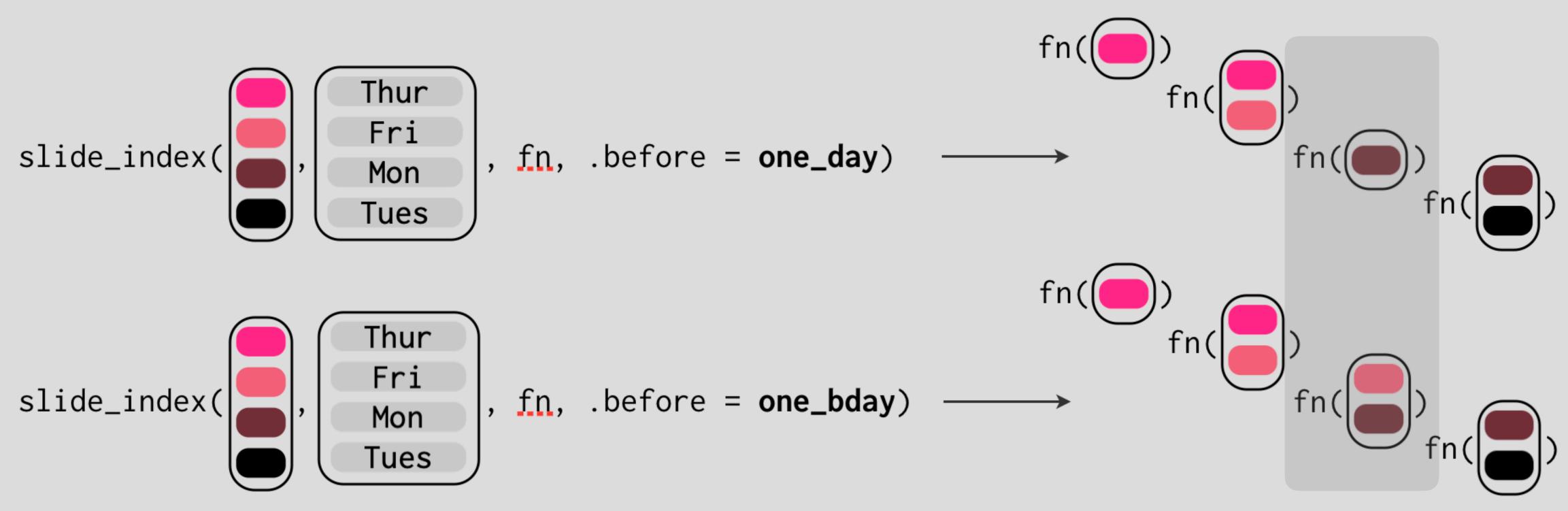
{almanac} - rstd.io/almanac

on_weekends <- weekly() %>% recur_on_weekends()

| Use them | n to | step | by | irr | egular | perio |
|----------|------|--------|-----|-----|--------|-------|
| Fri | + c | one_da | ıу | = | Sat | |
| Fri | + C | one_bd | lay | = | Mon | |



Slide according to custom business schedule rules.







{slider} - rstd.io/slider

{almanac} - rstd.io/almanac

slides - github.com/DavisVaughan/rstudio-conf-2020

@dvaughan32