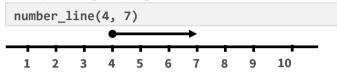
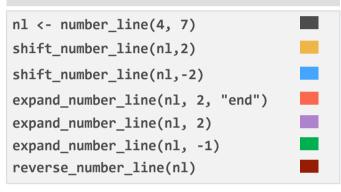
Multi-stage deterministic linkages and case definitions with diyar: : **cheat sheet**

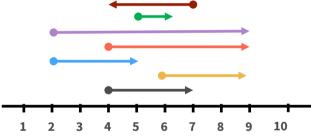
number_line objects

Series of real numbers on a number line. Stand alone S4 objects but also used in record and episode grouping



MANIPULATE NUMBER LINE OBJECTS





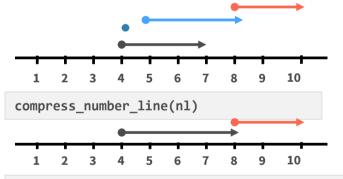
```
> number_line_width(nl)
[1] 3
> number_line_sequence(nl, 1)
[1] 4 5 6 7
> number_line_sequence(nl, .5)
[1] 4.0 4.5 5.0 5.5 6.0 6.5 7.0
> left_point(reverse_number_line(nl))
[1] 7
> start_point(reverse_number_line(nl))
[1] 4
> right_point(reverse_number_line(nl))
[1] 4
> end_point(reverse_number_line(nl))
[1] 7
```

Also supports objects that can be coerced to numeric values

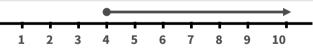


COMBINE NUMBER LINE OBJECTS

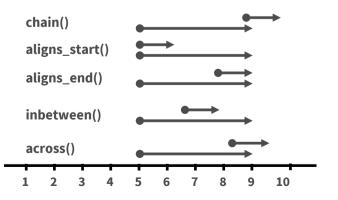
Overlapping number_line objects can be merged



compress_number_line(nl, collapse =T)



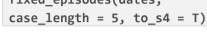
overlap methods

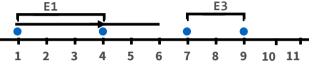


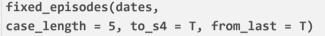
Episode grouping

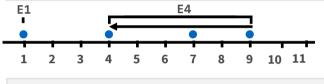
EPISODES FROM POINTS IN TIME

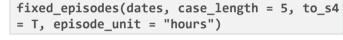
dates <- c("01","04","07","09")
dates <- paste(dates,"04/2019",sep= "/")
dates <- as.Date(dates, "%d/%m/%Y")
fixed_episodes(dates,</pre>

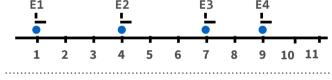






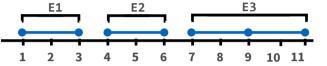


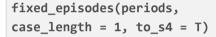




EPISODES FROM PERIODS IN TIME

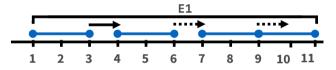
p <- as.number_line(dates)
p <- expand_number_line(p,2, "end")
periods <- p
fixed_episodes(periods,
 case length = 0, to s4 = T)</pre>





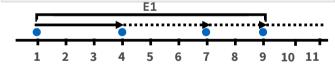


rolling_episodes(periods,
case_length = 1, to s4 = T)

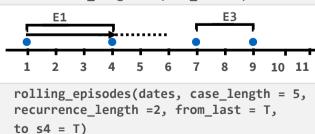


ROLLING EPISODES

rolling_episodes(dates,
case_length = 5, to_s4 = T)



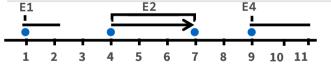
rolling_episodes(dates, case_length = 5,
recurrence_length = 2, to_s4 = T)



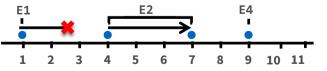
1 2 3 4 5 6 7 8 9 10 11

CONTROL CASE ASSIGNMENT

fixed_episodes(dates,
case_length = c(1,3,2,2), to_s4 = T)



fixed_episodes(dates, case_length =5,
custom_sort=c(1,0,1,1), to_s4 = T)



dashed lines – recurrence periods solid – initial case period round end – start of an episode arrow head – end of an episode

Multi-stage deterministic linkages and case definitions with diyar: : **cheat sheet**

Record grouping

- Multi-stage deterministic linkage
- Relevance of each stage controlled by `criteria`
- Use `sub_criteria` for additional matching conditions
- Missing data handled with alternative matching `criteria`
- Record grouping separately for subsets of the dataset using `strata`

