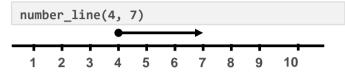
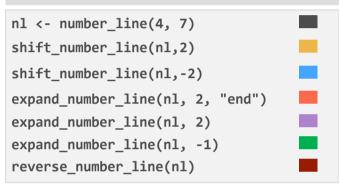
Multi-stage deterministic linkages and case definitions with diyar: : CHEAT SHEET

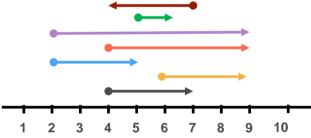
number_line objects

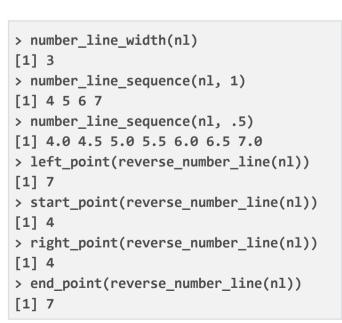
Series of real numbers on a number line. Stand alone S4 objects but also used in record and episode grouping



MANIPULATE NUMBER LINE OBJECTS







Also supports objects that can be coerced to numeric values

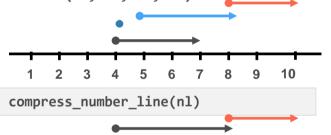
```
dates <- c("30/04/2019", "10/04/2019")
dates <- as.Date(dates, "%d/%m/%Y")
number_line(dates[1], dates[2])</pre>
```



COMBINE NUMBER LINE OBJECTS

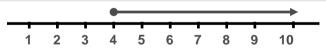
Overlapping number_line objects can be merged

```
n1 <- number_line(4,7)
n2 <- as.number_line(4)
n3 <- number_line(5,8)
n4 <- number_line(8,10)
n1 <- c(n1, n2, n3, n4)</pre>
```

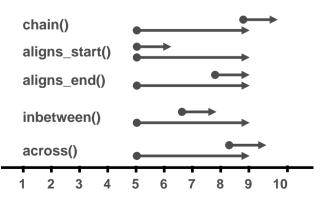


compress number line(nl, collapse =T)

1 2 3 4 5 6 7 8 9



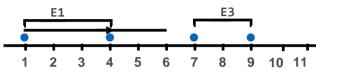
· overlap methods



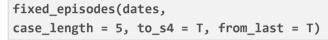
Episode grouping

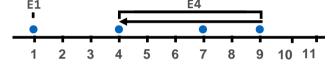
EPISODES FROM POINTS IN TIME

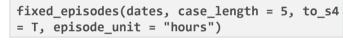
```
dates <- c("01","04","07","09")
dates <- paste(dates,"04/2019",sep= "/")
dates <- as.Date(dates, "%d/%m/%Y")
fixed_episodes(dates,</pre>
```

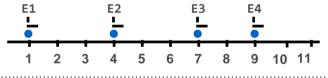


case length = 5, to s4 = T)



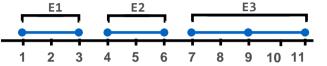






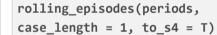
EPISODES FROM PERIODS IN TIME

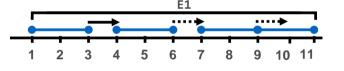
```
p <- as.number_line(dates)
p <- expand_number_line(p,2, "end")
periods <- p
fixed_episodes(periods,
case length = 0, to s4 = T)</pre>
```



fixed_episodes(periods,
case_length = 1, to_s4 = T)



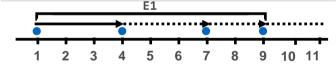




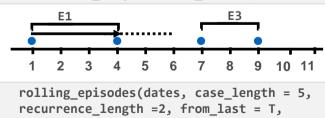
ROLLING EPISODES

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

to s4 = T)



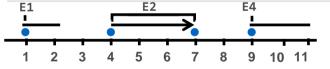
rolling_episodes(dates, case_length = 5,
recurrence_length =2, to_s4 = T)



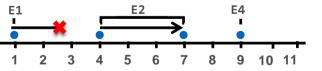
1 2 3 4 5 6 7 8 9 10 11

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`

