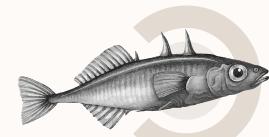


StalkeR cheat sheet



StalkeR PACKAGE

OBJECTS

`raw_df`

Raw reads for one experimental block. Must contain columns: "time", "date", "antenna", "id".

id	time	date	antenna	...
0007E50321	09:17:14	05-11-20	41	...
0007E50321	09:17:14	05-11-20	41	...
0007E50321	09:17:15	05-11-20	42	...
0007A34978	09:18:15	05-11-20	43	...

`block_ref_df`

List of individuals for an experimental block, and covariates (*optional*).

id	block	sex	treatment	...
0007E50321	1	F	Control	...
0007E53027	1	M	Control	...
0007EA1C55	1	F	Control	...
0007A4B8C8	1	F	Control	...

`block_df`

A cleaned version of `raw_df`.

id	time	antenna	...
0007E50321	05-11-20 09:17:14	41	...
0007E50321	05-11-20 09:17:15	42	...
0007A34978	05-11-20 09:18:15	43	...

`cutoff`

Minimal number of reads above which a sociality index is computed.

10

`antenna_nb`

Vector containing the antennas of interest.

`c(41, 42, 43, 44, 45)`

`start_time`

Start time at POSIXct format.

`as.POSIXct(strptime(c("2020-11-05 12:30:00"), "%Y-%m-%d %H:%M:%S"), "UTC")`

`end_time`

End time at POSIXct format.

`as.POSIXct(strptime(c("2020-11-05 15:00:00"), "%Y-%m-%d %H:%M:%S"), "UTC")`

`keep_NA`

Logical argument. If the individual never reached/crossed the antenna(s) of interest, keep 'NA' or give the maximal score.

`FALSE`

If FALSE, the maximal score is given. If TRUE, 'NA's are kept.

`unit`

Time unit for the latency score.

`'m'`

`sequence`

Vector or data frame containing sequence of interest.

If one sequence of interest - a vector.

`c(41, 42)`

If more than sequence of interest - a data frame.

`as.data.frame(rbind(c(41, 42), c(41, 43)))`

`seq_position`

Position in the antenna sequence to calculate latency.

`2`

`ant_coordinates`

The coordinates of the antennas of interest.

antenna	x	y	z
41	0	0	0
42	70	70	0
43	70	0	0
44	140	0	0

WORKFLOW

`raw_df`
`block_ref_df`

Inputs

`pr_clean_data`

Functions are shown by gradient arrows

`block_df`

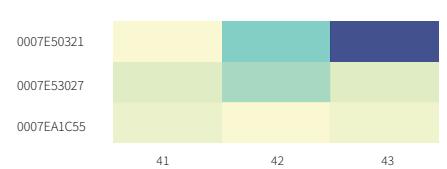
Output

The `block_df` object is the unit of this workflow.

1. Summary table containing the number of reads/duration.

id	`^41`	`^42`	`^43`	total
0007E50321	31	11	52	94
0007E53027	26	21	18	65
0007EA1C55	5	15	11	31

2. A heatmap corresponding to a visual representation of the table.



Accompanied reads, total reads and the ratio between the two.

id	acc_reads	tot_reads	proportion
0007DEB6AC	10	320	0.031
0007A5CD98	3	9	NA
0007A03565	4	112	0.035

Latency to reach the antenna(s) of interest.

id	`^41`	`^42`	`^43`
0007DEB6AC	34.2	27.0	102.3
0007A5CD98	28.1	22.0	40.2
0007A03565	17.7	12.4	4.5

Latency to cross the antenna sequence(s) of interest.

id	lat_41_42	lat_42_43	lat_43_44
0007DEB6AC	55.5	31.6	89.4
0007A5CD98	8.1	16.8	22.4
0007A03565	98.0	32.1	1.3

Distance travelled by individuals.

id	distance
0007DEB6AC	550.43
0007A5CD98	773.22
0007A03565	10.68