

Package: stateR (via r-universe)

July 2, 2026

Type Package

Title Brain State Metrics for Functional Connectivity Studies

Version 0.1.0

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Description Provides tidy tools for quantifying brain state dynamics from functional connectivity time series. Computes fractional occupancy, mean dwell time, and Markov-chain transition probabilities across discrete brain states derived from clustering methods such as k-means or hidden Markov models.

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Encoding UTF-8

RoxygenNote 7.3.2

VignetteBuilder knitr

URL <https://CoDe-Neuro.github.io/stateR>,
<https://github.com/CoDe-Neuro/stateR>

BugReports <https://github.com/CoDe-Neuro/stateR/issues>

Imports dplyr, tidyr, purrr, janitor, glue

Suggests knitr, rmarkdown, broom, tibble, testthat (>= 3.0.0)

Repository <https://code-neuro.r-universe.dev>

Date/Publication 2026-05-31 14:32:30 UTC

RemoteUrl <https://github.com/CoDe-Neuro/stateR>

RemoteRef v0.1.0

RemoteSha 5e708ad6947ea0cbb3bb757d0a4427f815c5693f

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clusters_markov	<i>This function reports the likelihood of transition between different states. The analysis is performed in a Markovian manner, i.e., without memory and all states have the same relevance.</i>
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Description

This function reports the likelihood of transition between different states. The analysis is performed in a Markovian manner, i.e., without memory and all states have the same relevance.'

Usage

```
clusters_markov(tbl, vars, cVar, sortBy, groupBy, remIntra = FALSE)
```

Arguments

tbl	A tibble/dataframe featuring a list of states in time - and covariates.
vars	Variables of interest in the tibble/dataframe.
cVar	States variable name to obtain transition likelihood.
sortBy	Time index variable.
groupBy	Grouping variable, e.g., subject or class.
remIntra	Logical indicating whether dwelling state transitions should be discarded.

dwellCount	<i>This function obtains dwelling times for states from a list.</i>
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Description

This function obtains dwelling times for states from a list.

Usage

```
dwellCount(x)
```

Arguments

x	List with states
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nest_dwell	<i>This function estimates the dwelling time or continuous occupancy of a series of states.'</i>
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Description

This function estimates the dwelling time or continuous occupancy of a series of states.'

Usage

```
nest_dwell(tbl, vars, foVar, sortBy)
```

Arguments

tbl	A tibble/dataframe featuring a list of states in time - and covariates
vars	Variables of interest in the tibble/dataframe
foVar	States variable name to obtain Dwelling time
sortBy	Time index variable

nest_fo	<i>This function estimates the fractional occupancy or probability of a series of states.'</i>
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Description

This function estimates the fractional occupancy or probability of a series of states.'

Usage

```
nest_fo(tbl, vars, foVar)
```

Arguments

tbl	A tibble/dataframe featuring a list of states in time - and covariates
vars	Variables of interest in the tibble/dataframe
foVar	States variable name to obtain fractional occupancy.

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