

Types of attributes and methods of the class ObservationSet

Notation

- O denotes the number of observations.
- N denotes the number of names associated with the observations.
- + denotes public attributes and methods (i.e. exported attributes and methods).
- – denotes private attributes and methods (i.e. attributes and methods not exported).

Attributes

+ **data**: list(named list)

\$observation1

name 1	vector
name 2	vector
...	...
name N	vector

\$observation2

name 1	vector
name 2	vector
...	...
name N	vector

...

\$observationO

name 1	vector
name 2	vector
...	...
name N	vector

+ **names**: vector(character)

+ **item_key**: character

+ **year_key**: character

Methods

+ **observation.set**(**data**: see attribute **data**, **item_key**: see attribute **item_key**,
year_key: see attribute **year_key**, **names**: see attribute **names**): ObservationSet

+ **subset**(**x**: ObservationSet, **indexes**: vector(numeric) or vector(logical), **keep_names**: logical):
ObservationSet

+ **reorder**(**x**: ObservationSet, **permutation**: vector(numeric) or vector(character)): ObservationSet

+ **as**(**to**: "data.frame"): data.frame

+ **as**(**to**: "transactions"): transactions (class from the package arules)

+ **get_all_items**(): vector

+ **get_itemsets**(): list(vector)

- + **get_items_from_info**(**info**: named list, **presence**: character, **additional**: vector(character)): vector
or named list
- + **get_info_from_items**(**items**: vector, **info_names**: vector(character), **presence**: character): vector
or named list

- + **get_complex_obs**(): ObservationSet
- + **get_simple_obs**(): ObservationSet
- + **get_obs_from_items**(**items**: vector, **presence**: character): ObservationSet
- + **get_obs_from_info**(**info**: named list, **presence**: character): ObservationSet

- + **complexity_ratio**(**items**: vector): named vector(numeric)
- + **complexity_items**(**items**: vector): named vector(numeric)
- + **co_occurrence_matrix**(**items**: vector): named matrix(numeric)

- + **itemset_chart**(**identifiers**: character, **length_one**: logical, **jitter**: logical, **under**: character,
over: character, **title**: character, **path**: character, **name**: character): ObservationSet

- + **co_occurrence_chart**(**items**: vector, **min_occ**: numeric, **max_occ**: numeric, **vertex_size**: numeric,
vertex_alpha: numeric, **vertex_margin**: numeric, **label_size**: numeric,
label_margin: numeric, **edge_tension**: numeric, **edge_alpha**: numeric,
palette: character or numeric, **palette_direction**: numeric): ggplot2 graph

- **has_temporal_data**(): logical
- **get_items**(**items**: character or vector): vector