

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

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

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

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

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

+ **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