

Types of attributes and methods of the class TransactionSet

Notation

- T denotes the number of transactions.
- N denotes the number of names associated with the transactions.
- + 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)

\$transaction1

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

\$transaction2

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

...

\$transactionT

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

+ **names**: vector(character)

+ **item_key**: character

+ **year_key**: character

Methods

+ **transaction.set**(**data**: see attribute **data**, **item_key**: see attribute **item_key**,
year_key: see attribute **year_key**, **names**: see attribute **names**): TransactionSet

+ **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): TransactionSet

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

+ **export**(...)

+ **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_trx**(): TransactionSet
- + **get_simple_trx**(): TransactionSet
- + **get_trx_from_items**(items: vector, **presence**: character): TransactionSet
- + **get_trx_from_info**(info: named list, **presence**: character): TransactionSet

- + **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): TransactionSet
- **prepare_itemset_chart**(identifiers: character, **length_one**: logical, **under**: character,
order: character): list
- [["transactions"]]: TransactionSet
- [["itemsets"]]: list(vector)
- [["items"]]: data.frame

item	label
character or numeric	character or numeric
- [["under"]]: vector(character)
- [["over"]]: vector(character)

- + **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