

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., non-exported attributes and methods).

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

Constructor

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

Methods

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

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

+ **subset**(**indices**: vector(numeric) or vector(logical), **keep_names**: logical): TransactionSet

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

+ **remove_items**(**items**: vector, **remove_empty**: logical, **keep_names**: logical): TransactionSet

+ **remove_empty_trx**(**keep_names**: logical): TransactionSet

- + **export(...)**

- + **get_all_items()**: vector
- + **get_all_years()**: 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**(**as_indices**: logical): TransactionSet or named vector(integer)
- + **get_simple_trx**(**as_indices**: logical): TransactionSet or named vector(integer)
- + **get_trx_from_items**(**items**: vector, **presence**: character, **as_indices**: logical): TransactionSet or
named vector(integer)
- + **get_trx_from_info**(**info**: named list, **presence**: character, **as_indices**: logical): TransactionSet or
named vector(integer)

- + **complexity_ratio**(**items**: vector): named vector(numeric)
- + **complexity_index**(**items**: vector): named vector(integer)
- + **co_occurrence_matrix**(**items**: vector, **proportions**: logical): named matrix(integer) or 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, **co_occ**: matrix(numeric), **proportions**: logical,
min_occ: numeric, **max_occ**: numeric, **vertex_size**: numeric,
vertex_alpha: numeric, **vertex_margin**: numeric, **label_size**: numeric,
label_margin: numeric, **edge_looseness**: numeric, **edge_alpha**: numeric,
palette: character or numeric, **palette_direction**: numeric): ggplot2 graph

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