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

vector
vector
•••
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_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

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