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

$+$ **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