**Types of attributes and methods of the class ObservationSet**

Notation

* denotes the number of observations.
* 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 | $observation2 | … | $observationO |
| |  |  | | --- | --- | | **name 1** | vector | | **name 2** | vector | | **…** | … | | **name** | vector | | |  |  | | --- | --- | | **name 1** | vector | | **name 2** | vector | | **…** | … | | **name** | vector | | … | |  |  | | --- | --- | | **name 1** | vector | | **name 2** | vector | | **…** | … | | **name** | 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

**prepare\_itemset\_chart(identifiers**: character, **length\_one**: logical, **under**: character,

**order**: character**)**: list

[["observations"]]: ObservationSet

[["itemsets"]]: list(vector)

|  |  |
| --- | --- |
| **item** | **label** |
| character or numeric | character or numeric |

[["items"]]: data.frame

[["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