Package ‘qsort’

October 26, 2018

Type Package

Title Scoring Q-Sort Data

Version 0.2.3

Description Computes scores from Q-sort data, using criteria sorts and derived scales from subsets of items. The 'qsort' package includes descriptions and scoring procedures for four different Q-sets commonly used in developmental psychology research:
   - California Child Q-set (Block and Block, 1969, <doi:10.1037/0012-1649.21.3.508>);
   - Maternal Behaviour Q-set (version 3.1) (Pederson et al., 1999, <https://ir.lib.uwo.ca/cgi/viewcontent.cgi?article=1000&context=psychologypub>);

Imports cowplot, ggplot2, gridExtra, purrr, stats

Suggests devtools, knitr, roxygen2, rmarkdown

Depends R (>= 2.10)

License GPL-3

Encoding UTF-8

LazyData true

RoxygenNote 6.1.0

VignetteBuilder knitr

NeedsCompilation no

Author David N Sousa [aut, cre] (<https://orcid.org/0000-0001-7277-6447>), João R Daniel [aut] (<https://orcid.org/0000-0001-6609-2014>)

Maintainer David N Sousa <davidnsousa@gmail.com>

Repository CRAN

Date/Publication 2018-10-26 14:50:03 UTC
**R topics documented:**

- `ex_qsort` .................................................. 2
- `print_cards` ................................................. 3
- `qset_aqs` ..................................................... 4
- `qset_ccq` ..................................................... 5
- `qset_mbqs` .................................................... 6
- `qset_pq` ....................................................... 6
- `qsort_score` .................................................. 7

**Index**

- `ex_qsort` ................................................................ 9

---

**Description**

A list containing four hypothetical Q-sort datasets: Attachment Q-set (aqs; version 3.0) (Waters, 1995); California Child Q-set (ccq; Block and Block, 1969); Maternal Behaviour Q-set (version 3.1) (mbqs; Pederson et al., 1999); Preschool Q-set (pq; Baumrind, 1968 revised by Wanda Bronson).

**Usage**

```r
ex_qsort
```

**Format**

Data frames with 10 rows and a variable number of columns, depending on the number of Q-set items (aqs = 90, ccq = 100, mbqs = 90, pq = 72)

- `participant` Subject identification.
- `classroom` Group identification.
- `qset1` to ... Items’ scores.

**Details**

For these examples, items were given random scores (1 to 9; least to most characteristic respectively) following a rectangular distribution. For the ccq Q-set this corresponds to placing 11 items in each of the 9 categories, plus an additional one in the center category (i.e., 12 items in category 5). For the remaining Q-sets all the 9 categories include the same number of items (aqs = 10, mbqs = 10, pq = 8).
print_cards

Description

print_cards creates a pdf document in a specified directory, with item’s descriptions displayed on separate cards.

Usage

print_cards(qset, desc_col = "description", dir.print)

Arguments

- **qset**: A data frame containing the Q-set items’ descriptions. For details see for example ?qset_aqs, ?qset_cqq, ?qset_mbqs and ?qset_pq.
- **desc_col**: Column name of qsets data frame containing items’ descriptions.
- **dir.print**: Directory path where .pdf file will be saved

Value

a pdf document with item’s descriptions displayed on separate cards.

References


Examples

print_cards(qset_aqs, desc_col = "description", dir.print = tempdir())

qset_aqs

AQS Q-set criteria scores and derived scales

Description

A data frame containing the Attachment Q-set (qset; version 3.0). In this dataset, column names ending in "_c" refer to criteria sorts’ scores, while column names ending in "_s" refer to scales’ scores.

Usage

qset_aqs

Format

AQS dataset with 90 rows (items) and 9 columns.

item Item number from 1 to 90.
sec_c Security criterion scores (retrieved from Waters et al., 1995).
dep_c Dependency criterion scores (retrieved from Waters et al., 1995).
pederson_s Pederson & Moran’s (1995) scales (retrieved from Waters et al., 1995). comp = compliance; sb = secure base, fd = fussy/difficult; epc = enjoys physical contact; as = affective sharing.
pederson_s_inv Items to be inverted in Pederson and Moran scales.
posada_s Posada et al.’s (1995) scales (retrieved from Waters et al., 1995). sim = smooth interactions with mother; pcm = physical contact with mother; ioa = interactions with other adults; pm = proximity to mother.
posada_s_inv Items to be inverted in Posada et al.’s scales.
description Item description (retrieved from Waters, 1995).

References


<table>
<thead>
<tr>
<th>qset_ccq</th>
<th>CCQ Q-set criteria scores and derived scales</th>
</tr>
</thead>
</table>

**Description**

A data frame containing the California Child Q-set (ccq). In this dataset, column names ending in "_c" refer to criteria sorts’ scores, while column names ending in "_s" refer to scales’ scores.

**Usage**

qset_ccq

**Format**

CCQ dataset with 100 rows (items) and 6 columns.

- **item**: Item number from 1 to 100.
- **qset ccq**: California Child Q-set (Block & Block, 1969).
- **scomp_c**: Social competence criterion scores (retrieved from Waters et al., 1985).
- **sest_c**: Self-esteem criterion scores (retrieved from Waters et al., 1985).
- **sest_c**: Self-esteem criterion scores (retrieved from Waters et al., 1985).
- **egores_c**: Ego-resiliency criterion scores (Block & Block, 1980; retrieved from Brian Vaughn, personal communication).
- **egocont_c**: Ego-control criterion scores (Block & Block, 1980; retrieved from Brian Vaughn, personal communication).
- **shields_s**: Emotion regulation scale (retrieved from Shields and Cicchetti, 1997)
- **shields_s_inv**: Items to be inverted in emotion regulation scale.
- **description**: Item description (retrieved from Waters et al., 1985).

**References**


---

### qset_mbqs

*MBQS Q-set criteria scores and derived scales*

**Description**

A data frame containing the Maternal Behaviour Q-set (mbqs; version 3.1). In this dataset, column names ending in "_c" refer to criteria sorts’ scores, while column names ending in "_s" refer to scales’ scores.

**Usage**

`qset_mbqs`

**Format**

MBQS dataset with 90 rows (items) and 4 columns.

- **item**: Item number from 1 to 90.
- **sens_s**: Sensibility criterion scores (retrieved from Pederson et al., 1999).
- **description**: Item description (retrieved from Pederson et al., 1999).

**References**


---

### qset_pq

*PQ Q-set criteria scores and derived scales*

**Description**

A data frame containing the Preschool Q-set (pq). In this dataset, column names ending in "_c" refer to criteria sorts’ scores, while column names ending in "_s" refer to scales’ scores.

**Usage**

`qset_pq`
Format

PQ dataset with 72 rows (items) and 6 columns.

- **item** Item number from 1 to 72.
- **qset** pq. Preschool Q-set (Baumrind, 1968 revised by Wanda Bronson).
- **scomp_c** Social competence criterion scores (retrieved from Waters et al., 1985).
- **sest_c** Self-esteem criterion scores (retrieved from Waters et al., 1985).
- **sdes_c** Social desirability criterion scores (retrieved from Waters et al., 1985).
- **description** Item description (retrieved from Waters et al., 1985).

References


Description

qsort_score returns a data frame with scores derived from criteria Q-sorts and from scales created from subsets of items.

Usage

```r
qsort_score(x, qset, qsort_length, item1, subj_id = NULL, group_id = NULL)
```

Arguments

- **x** data frame. x should be in wide format, with each subject data in one row and the scores for qset items in different columns. Columns for qset items’ scores should be ordered sequentially from left to right, starting with item 1.
- **qset** A data frame containing Q-set criterion scores and/or derived scales. For details see for example ?qset_aqs, ?qset_cqq, ?qset_mbqs and ?qset_pq.
- **qsort_length** The number of items in the qsort.
- **item1** Column name of x containing item 1 score
- **subj_id** Optional. Column name of x with subjects’ identification codes.
- **group_id** Optional. Column name of x with groups’ identification codes.
qsort_score

Value

qsort_score function returns a data frame. This data frame will have a varying number of columns depending on the number of available criteria sorts and scales for the selected Q-set. Column names ending in "_c" refer to criteria sorts' scores, while column names ending in "_s" refer to scales’ scores. Following Waters et al.’s (1985) suggestion about the influence of social desirability bias in Q-sort data, for Q-sets that have social desirability criterion scores, this data frame will also include criteria sorts’ scores controlled for social desirability (i.e., partial correlations). Column names starting with "partial_" refer to these scores. The different criteria sorts and scales for each Q-set can be consulted in the documentation of qsets object (?qsets).

References


Examples

data_ccq <- qsort_score(ex_qsort$ccq,
                        qset_ccq,
                        qsort_length = 100L,
                        item1 = "ccq1",
                        subj_id = "participant",
                        group_id = "classroom")
data_ccq

data_aqs <- qsort_score(ex_qsort$aqs,
                        qset_aqs,
                        qsort_length = 90L,
                        item1 = "aqs1")
Index

*Topic datasets
  ex_qsort, 2
  qset_aqs, 4
  qset_ccq, 5
  qset_mbqs, 6
  qset_pq, 6

ex_qsort, 2

print_cards, 3

qset_aqs, 4
qset_ccq, 5
qset_mbqs, 6
qset_pq, 6
qsort_score, 7