Package ‘qsort’

October 13, 2022

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

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ex_qsort

Example datasets for qsort package

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

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

Reference


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())
```

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### qset_aqs

#### AQS Q-set criteria scores and derived scales

**Description**

A data frame containing the Attachment Q-set (aqs; 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.
- **qset**: aqs. Attachment Q-set (version 3.0) (Waters, 1995).
- **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**


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**qset_ccq**

<table>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A data frame containing the California Child Q-set (ccq). In this dataset, column names ending in &quot;_c&quot; refer to criteria sorts' scores, while column names ending in &quot;_s&quot; refer to scales' scores.</td>
</tr>
</tbody>
</table>

**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).
- **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
**qsort_score**

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


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**qsort_score**

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.
**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**

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

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