

# Package ‘pisaRT’

December 7, 2020

**Type** Package

**Title** Small Example Response and Response Time Data from PISA 2018

**Version** 2.0.1

**Description** Scored responses and responses times from the Canadian subsample of the PISA 2018 assessment, accessible as the "Cognitive items total time/visits data file" by OECD (2020) <<https://www.oecd.org/pisa/data/2018database/>>.

**Depends** R (>= 2.10)

**License** CC BY 4.0

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.1

**Suggests** testthat

**NeedsCompilation** no

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**Repository** CRAN

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pisal

*PISA Example Responses and Response Times Data (long format)*

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### Description

A small example data set from the Canadian sample of the PISA 2018 assessment. Contains responses, response times and log transformed response times of a single math booklet. This data set is in the long format, with each row containing the scored response and response time of a person on a single item. For further explanations see [pisaRT](#).

### Usage

pisal

### Format

A data.frame with 6000 rows and 5 variables:

**ID** Person ID variable

**item** Item number

**y** Scored responses

**RT** Response time in seconds

**log\_RT** Log Response time

### Source

<https://www.oecd.org/pisa/data/2018database/>

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pisaRT

*pisaRT: Example PISA 2018 data set with responses and response times*

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### Description

The pisaRT package contains a small example data set of the Canadian PISA 2018 assessment. The data set consists of scored responses, raw response times and log transformed response times on item level of the first booklet in the math domain (M01). Polytomous items have been dichotomized by scoring not fully correct responses as incorrect. One item has been removed due to problematic fit and 500 persons have been randomly selected for this subsample. The data set is available in the long ([pisal](#)) and in the wide format ([pisaW](#)). Log transformed response times have been added to the data as these are frequently used in psychometric response time models.

### License and Origin

The original data can be retrieved as the "Cognitive items total time/visits data file" by OECD (2020) from <https://www.oecd.org/pisa/data/2018database/>. The data is available under the CC-BY-SA license.

### Purpose

There exists a wide variety of models for response times of cognitive data. However, no example data set is readily available in R packages. pisaRT provides a small example data set on which exemplary analysis can be run.

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pisaW

*PISA Example Responses and Response Times Data (wide format)*

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### Description

A small example data set from the Canadian sample of the PISA 2018 assessment. Contains responses, response times and log transformed response times of a single math booklet. This data set is in the wide format, with each row containing the scored responses and response times of a person on all booklet items. For further explanations see [pisaRT](#).

### Usage

pisaW

### Format

A data.frame with 500 rows and 37 variables:

**ID** Person ID variable

**y\_x** Scored responses on item x

**RT\_x** Response time in seconds on item x

**log\_RT\_x** Log Response time on item x

### Source

<https://www.oecd.org/pisa/data/2018database/>

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