

# Package: datastat (via r-universe)

December 14, 2024

**Type** Package

**Title** Dataset for Statistical Analysis

**Version** 0.1.0

**Language** en-US

**Maintainer** Atchanut Rattanalertnusorn <atchanut\_r@rmutt.ac.th>

**Description** Data are essential in statistical analysis. This data package consists of four datasets for descriptive statistics, two datasets for statistical hypothesis testing, and two datasets for regression analysis. All of the datasets are based on Rattanalertnusorn, A. (2024) <[https://www.researchgate.net/publication/371944275\\_porkaermxarlaekarprayuktchingan\\_R\\_and\\_its\\_applications](https://www.researchgate.net/publication/371944275_porkaermxarlaekarprayuktchingan_R_and_its_applications)>.

**License** CC0

**Encoding** UTF-8

**LazyData** true

**Depends** R (>= 2.10)

**RoxygenNote** 7.3.2

**NeedsCompilation** no

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**Repository** <https://atchanut.r-universe.dev>

**RemoteUrl** <https://github.com/cran/datastat>

**RemoteRef** HEAD

**RemoteSha** 4c5944e56ecc84bce6d1a15a3d16fe3dba749295

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data51	<i>Data set number 1 for descriptive statistics</i>
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### Description

A dataset of the final scores of 10 students

### Usage

data51

### Format

data51 is a data frame with 10 rows and 1 column:

x Final score of each student

### Source

<[https://www.researchgate.net/publication/371944275\\_porkaermxarlaekarprayuktchingan\\_R\\_and\\_its\\_applications](https://www.researchgate.net/publication/371944275_porkaermxarlaekarprayuktchingan_R_and_its_applications)>

### References

Rattanalertnusorn, A. (2024). R and Its Application. TPN Press Ltd., Part. ISBN: 978-616-603-060-0. pp.122-123.

### Examples

data51

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data52

*Data set number 2 for descriptive statistics*

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**Description**

A dataset of midterm scores from 5 students. Each student took the exam two subjects: Thai and English

**Usage**

data52

**Format**

data52 is a data frame with 5 rows and 2 columns:

x Midterm score of English subject

y Midterm score of Thai subject

**Source**

<[https://www.researchgate.net/publication/371944275\\_porkaermxarlaekarprayuktchingan\\_R\\_and\\_its\\_applications](https://www.researchgate.net/publication/371944275_porkaermxarlaekarprayuktchingan_R_and_its_applications)>

**References**

Rattanalertnusorn, A. (2024). R and Its Application. TPN Press Ltd., Part. ISBN: 978-616-603-060-0. pp.125-128.

**Examples**

data52

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data53

*Data set number 3 for descriptive statistics*

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**Description**

A dataset of the weights of 10 persons measure in kilogram

**Usage**

data53

**Format**

data53 is a data frame with 10 rows and 1 column:

x Weight of each person

**Source**

<[https://www.researchgate.net/publication/371944275\\_porkaermxarlaeakarprayuktchingan\\_R\\_and\\_its\\_applications](https://www.researchgate.net/publication/371944275_porkaermxarlaeakarprayuktchingan_R_and_its_applications)>

**References**

Rattanalertnusorn, A. (2024). R and Its Application. TPN Press Ltd., Part. ISBN: 978-616-603-060-0. pp.129-130.

**Examples**

data53

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data54

*Data set number 4 for descriptive statistics*

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**Description**

A dataset of five students. Each student has name, age and gender

**Usage**

data54

**Format**

data54 is a data frame with 5 rows and 3 columns:

**name** Student name

**age** Student age

**gender** Student gender

**Source**

<[https://www.researchgate.net/publication/371944275\\_porkaermxarlaeakarprayuktchingan\\_R\\_and\\_its\\_applications](https://www.researchgate.net/publication/371944275_porkaermxarlaeakarprayuktchingan_R_and_its_applications)>

**References**

Rattanalertnusorn, A. (2024). R and Its Application. TPN Press Ltd., Part. ISBN: 978-616-603-060-0. pp.147.

**Examples**

data54

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`data81`*Data set for statistical hypothesis testing*

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**Description**

A dataset of the weight of two car types (type A and type B). The weight measured in kilograms

**Usage**`data81`**Format**

`data81` is a data frame with 10 rows and 2 columns:

**wtcar.a** Weight of car type A

**wtcar.b** Weight of car type B

**Source**

<[https://www.researchgate.net/publication/371944275\\_porkaermxarlaekarprayuktchingan\\_R\\_and\\_its\\_applications](https://www.researchgate.net/publication/371944275_porkaermxarlaekarprayuktchingan_R_and_its_applications)>

**References**

Rattanalertnusorn, A. (2024). R and Its Application. TPN Press Ltd., Part. ISBN: 978-616-603-060-0. pp.237.

**Examples**`data81`

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data82	<i>Data set for the paired t-test</i>
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**Description**

A dataset of the pre-test and post-test scores

**Usage**

data82

**Format**

data82 is a data frame with 15 rows and 2 columns:

**pretest** The pre-test score

**posttest** The post-test score

**Source**

<[https://www.researchgate.net/publication/371944275\\_porkaermxarlaekarprayuktchingan\\_R\\_and\\_its\\_applications](https://www.researchgate.net/publication/371944275_porkaermxarlaekarprayuktchingan_R_and_its_applications)>

**References**

Rattanalertnusorn, A. (2024). R and Its Application. TPN Press Ltd., Part. ISBN: 978-616-603-060-0. pp.247.

**Examples**

data82

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data91	<i>Data set for simple linear regression model</i>
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**Description**

A dataset of the advertising costs and sales

**Usage**

data91

**Format**

data91 is a data frame with 9 rows and 2 columns:

**Advcosts** The advertising costs are measured in a hundred thousand baht

**Sales** The sales are measured in a million bath

**Source**

<[https://www.researchgate.net/publication/371944275\\_porkaermxarlaeakarprayuktchingan\\_R\\_and\\_its\\_applications](https://www.researchgate.net/publication/371944275_porkaermxarlaeakarprayuktchingan_R_and_its_applications)>

**References**

Rattanalertnusorn, A. (2024). R and Its Application. TPN Press Ltd., Part. ISBN: 978-616-603-060-0. pp.265-266.

**Examples**

data91

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data92

*Data set for multiple linear regression model*

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**Description**

A dataset of salary, overtime, and savings per month of 12 employees

**Usage**

data92

**Format**

data91 is a data frame with 12 rows and 3 columns:

**x1** The salary of employees is measured in baht

**x2** The overtime of employees is measured in baht

**y** The savings per month of employees are measured in baht

**Source**

<[https://www.researchgate.net/publication/371944275\\_porkaermxarlaeakarprayuktchingan\\_R\\_and\\_its\\_applications](https://www.researchgate.net/publication/371944275_porkaermxarlaeakarprayuktchingan_R_and_its_applications)>

**References**

Rattanalertnusorn, A. (2024). R and Its Application. TPN Press Ltd., Part. ISBN: 978-616-603-060-0. pp.275.

**Examples**

data92



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