

Package ‘CatDataAnalysis’

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Title Datasets for Categorical Data Analysis by Agresti

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Depends R (>= 3.0.2)

Description Datasets used in the book “Categorical Data Analysis” by Agresti (2012, ISBN:978-0-470-46363-5) but not printed in the book. Datasets and help pages were automatically produced from the source <<https://users.stat.ufl.edu/~aa/cda/data.html>> by the R script foo.R, which can be found in the GitHub repository.

License GPL (>= 2)

URL <https://github.com/cjgeyer/CatDataAnalysis>

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exercise_13.17	<i>Clinical Trials Data Set for Exercise 13.17</i>
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Description

Clinical trials data set for Exercise 13.17.

Usage

```
data(exercise_13.17)
```

Format

A data frame containing 16 observations (rows) and the following columns:

Center

Treatment

Much_Better

Better

Unchanged.Worse

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

exercise_14.15

Data for Exercise 14.15 on Buchanan Vote in 2000

Description

Data for Exercise 14.15 on Buchanan vote in 2000.

Usage

```
data(exercise_14.15)
```

Format

A data frame containing 67 observations (rows) and the following columns:

county

perot_vote

total_vote_1996

buchanan_vote

total_vote_2000

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

exercise_4.13

Ray Allen Data Set for Exercise 4.13

Description

Ray Allen data set for Exercise 4.13.

Usage

```
data(exercise_4.13)
```

Format

A data frame containing 24 observations (rows) and the following columns:

game
made
attempts

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

exercise_5.22

Data on Italian Credit Cards, for Exercise 5.22

Description

Data on Italian credit cards, for Exercise 5.22.

Usage

```
data(exercise_5.22)
```

Format

A data frame containing 31 observations (rows) and the following columns:

income
n
y

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

exercise_5.3

Rajon Rondo Assists Data Set for Exercise 5.3

Description

Rajon Rondo assists data set for Exercise 5.3.

Usage

```
data(exercise_5.3)
```

Format

A data frame containing 77 observations (rows) and the following columns:

assists

result

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

exercise_6.20

Data on Incontinence Study, for Exercise 6.20

Description

Data on incontinence study, for Exercise 6.20.

Usage

```
data(exercise_6.20)
```

Format

A data frame containing 21 observations (rows) and the following columns:

y

x1

x2

x3

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

exercise_6.28

Data Set for Exercise 6.28

Description

Data set for Exercise 6.28.

Usage

```
data(exercise_6.28)
```

Format

A data frame containing 48 observations (rows) and the following columns:

Occupational_aspirations

Socioeconomic_status

IQ

Residence

Gender

counts

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

Examples

```
# in the source was a table rather than a data frame
# to convert to a table do
data(exercise_6.28)
exercise_6.28_as_table <- xtabs(counts ~ ., data = exercise_6.28)
## Not run: exercise_6.28_as_table
```

exercise_6.3

Data Set for Exercises 6.3 and 9.13

Description

Data set for Exercises 6.3 and 9.13.

Usage

```
data(exercise_6.3)
```

Format

A data frame containing 24 observations (rows) and the following columns:

Birth_control

Religious_Attendance

Premarital_Sex

Political_Views

counts

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

Examples

```
# in the source was a table rather than a data frame
# to convert to a table do
data(exercise_6.3)
exercise_6.3_as_table <- xtabs(counts ~ ., data = exercise_6.3)
## Not run: exercise_6.3_as_table
```

exercise_6.7

Data Set for Exercise 6.7

Description

Data set for Exercise 6.7.

Usage

```
data(exercise_6.7)
```

Format

A data frame containing 168 observations (rows) and the following columns:

Gender

Age

Race

Satisfaction

Region

counts

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

Examples

```
# in the source was a table rather than a data frame
# to convert to a table do
data(exercise_6.7)
exercise_6.7_as_table <- xtabs(counts ~ ., data = exercise_6.7)
## Not run: exercise_6.7_as_table
```

exercise_8.18

Data for Exercise 8.18 on Dumping Severity

Description

Data for Exercise 8.18 on dumping severity.

Usage

```
data(exercise_8.18)
```

Format

A data frame containing 48 observations (rows) and the following columns:

Dumping_severity

Hospital

Operation

counts

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

Examples

```
# in the source was a table rather than a data frame
# to convert to a table do
data(exercise_8.18)
exercise_8.18_as_table <- xtabs(counts ~ ., data = exercise_8.18)
## Not run: exercise_8.18_as_table
```

`exercise_8.28`*Data for Exercise 8.28 on Satisfaction with Housing*

Description

Data for Exercise 8.28 on satisfaction with housing.

Usage

```
data(exercise_8.28)
```

Format

A data frame containing 72 observations (rows) and the following columns:

Satisfaction

Contact

Influence

Housing

counts

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

Examples

```
# in the source was a table rather than a data frame
# to convert to a table do
data(exercise_8.28)
exercise_8.28_as_table <- xtabs(counts ~ ., data = exercise_8.28)
## Not run: exercise_8.28_as_table
```

`exercise_9.5`*Government Spending Data Set for Exercise 9.5*

Description

Government spending data set for Exercise 9.5.

Usage

```
data(exercise_9.5)
```

Format

A data frame containing 81 observations (rows) and the following columns:

e

h

c

l

count

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

`section_13.4.4`*Data for Example in Section 13.4.4 on Cluster Sampling*

Description

Data for example in Section 13.4.4 on cluster sampling.

Usage

```
data(section_13.4.4)
```

Format

A data frame containing 96 observations (rows) and the following columns:

nbhd
satis_1
satis_2

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

table_10.1	<i>Alcohol, Cigarette, and Marijuana Use, by Gender and Race, as in Table 10.1</i>
------------	--

Description

Alcohol, cigarette, and marijuana use, by gender and race, as in Table 10.1.

Usage

```
data(table_10.1)
```

Format

A data frame containing 32 observations (rows) and the following columns:

a
c
m
r
g
count

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

table_10.3	<i>Opinions About Birth Control and Premarital Sex Data Set of Table 10.3</i>
------------	---

Description

Opinions about birth control and premarital sex data set of Table 10.3.

Usage

```
data(table_10.3)
```

Format

A data frame containing 16 observations (rows) and the following columns:

premar
birth
count

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

table_11.5	<i>Migration Data Set of Table 11.5</i>
------------	---

Description

Migration data set of Table 11.5.

Usage

```
data(table_11.5)
```

Format

A data frame containing 16 observations (rows) and the following columns:

row
column
count

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

table_12.1

Depression Data Set of Table 12.1 in Case Form

Description

Depression data set of Table 12.1 in case form.

Usage

```
data(table_12.1)
```

Format

A data frame containing 1020 observations (rows) and the following columns:

case

severity

treat

time

outcome

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

Insomnia Data Set of Table 12.3

Description

Insomnia data set of Table 12.3.

Usage

```
data(table_12.3)
```

Format

A data frame containing 478 observations (rows) and the following columns:

case

treat

occasion

outcome

count

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

Presidential Election Poll Data Set of Table 13.2

Description

Presidential election poll data set of Table 13.2.

Usage

```
data(table_13.2)
```

Format

A data frame containing 51 observations (rows) and the following columns:

state
pi
n
x
proportion

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

table_13.3

Attitudes About Abortion Data Set of Table 13.3

Description

Attitudes about abortion data set of Table 13.3.

Usage

```
data(table_13.3)
```

Format

A data frame containing 16 observations (rows) and the following columns:

gender
poor
single
any
count

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

table_13.8	<i>Attitudes Toward Leading Crowd Data Set of Table 13.8</i>
------------	--

Description

Attitudes toward leading crowd data set of Table 13.8.

Usage

```
data(table_13.8)
```

Format

A data frame containing 16 observations (rows) and the following columns:

mem1

att1

mem2

att2

count

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

table_15.5	<i>Election Data Set of Table 15.5 (1 = Dem, 0 = Rep)</i>
------------	---

Description

Election data set of Table 15.5 (1 = Dem, 0 = Rep).

Usage

```
data(table_15.5)
```

Format

A data frame containing 51 observations (rows) and the following columns:

State**e1****e2****e3****e4****e5****e6****e7****e8****Source**

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

table_15.6

Grounds for Divorce Data Set of Table 15.6 for Exercise 15.10

Description

Grounds for divorce data set of Table 15.6 for Exercise 15.10.

Usage

```
data(table_15.6)
```

Format

A data frame containing 50 observations (rows) and the following columns:

state**incompat****cruelty****desertn****non_supp****alcohol****felony****impotenc****insanity****separate**

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

table_4.3

Horseshoe Crab Data Set of Table 4.3

Description

Horseshoe crab data set of Table 4.3. (Here y is whether a female crab has a satellite (1=yes, 0=no) and weight is in grams, rather than kg as in the text. Also, color has values 1-5 with 1=light; there were no crabs of color 1, so in the text, color was re-coded as color - 1 to give values 1, 2, 3, 4.)

Usage

```
data(table_4.3)
```

Format

A data frame containing 173 observations (rows) and the following columns:

color

spine

width

satell

weight

y

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

table_4.7

Teratology Study Data Set of Table 4.7

Description

Teratology study data set of Table 4.7.

Usage

```
data(table_4.7)
```

Format

A data frame containing 58 observations (rows) and the following columns:

litter

group

n

y

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

table_6.15

Data on Surgery and Sore Throats in Table 6.15, for Exercise 6.8

Description

Data on surgery and sore throats in Table 6.15, for Exercise 6.8.

Usage

```
data(table_6.15)
```

Format

A data frame containing 35 observations (rows) and the following columns:

D

T

Y

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

table_6.9

Clinical Trials Data Set of Table 6.9

Description

Clinical trials data set of Table 6.9.

Usage

```
data(table_6.9)
```

Format

A data frame containing 32 observations (rows) and the following columns:

center

treat

response

count

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

table_7.2

Full Data Set for Table 7.2 on Endometrial Cancer Grade

Description

Full data set for Table 7.2 on endometrial cancer grade.

Usage

```
data(table_7.2)
```

Format

A data frame containing 79 observations (rows) and the following columns:

nv

pi

eh

hg

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

table_8.1

Alligator Food Choice Data Set of Table 8.1

Description

Alligator food choice data set of Table 8.1.

Usage

```
data(table_8.1)
```

Format

A data frame containing 80 observations (rows) and the following columns:

lake
gender
size
food
count

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

table_8.5

Full Data Set for Table 8.5 on Happiness, Traumatic Events, and Race

Description

Full data set for Table 8.5 on happiness, traumatic events, and race.

Usage

```
data(table_8.5)
```

Format

A data frame containing 97 observations (rows) and the following columns:

race
trauma
happy

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

`table_9.3`*High School Student Survey Data Set of Table 9.3*

Description

High school student survey data set of Table 9.3.

Usage

```
data(table_9.3)
```

Format

A data frame containing 8 observations (rows) and the following columns:

a

c

m

count

Source

<https://users.stat.ufl.edu/~aa/cda/data.html>

References

Agresti, A. (2013) *Categorical Data Analysis*, Third Edition. Hoboken, NJ: John Wiley & Sons. ISBN: 978-0-470-46363-5.

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