

# Package ‘CatDataAnalysis’

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**Title** Datasetsfor Categorical Data Analysis by Agresti

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**Depends** R (>= 2.14.0)

**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 <<http://www.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>

**NeedsCompilation** no

**Repository** CRAN

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exercise\_13.17

*Clinical Trials Data Set for Exercise 13.17*

---

## 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

<http://www.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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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**

<http://www.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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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**

<http://www.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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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**

<http://www.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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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**

<http://www.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**

<http://www.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**

<http://www.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**

<http://www.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**

<http://www.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**

<http://www.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**

<http://www.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**

<http://www.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**

<http://www.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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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**

<http://www.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**

<http://www.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**

<http://www.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**

<http://www.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**

<http://www.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**

<http://www.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**

<http://www.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.



---

*Attitudes Toward Leading Crowd Data Set of Table 13.8*

---

**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**

<http://www.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.

---

*Election Data Set of Table 15.5 (1 = Dem, 0 = Rep)*

---

**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**

<http://www.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**

<http://www.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**

<http://www.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**

<http://www.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**

<http://www.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**

<http://www.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**

<http://www.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**

<http://www.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**

<http://www.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	<i>High School Student Survey Data Set of Table 9.3</i>
-----------	---

---

**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**

<http://www.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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