Package 'smss'

February 20, 2015

Version 1.0-1

Date 2013-8-22

Title Datasets for Agresti and Finlay's ``Statistical Methods for the Social Sciences''

Suggests devtools

Description Datasets used in ``Statistical Methods for the Social Sciences'' (SMSS) by Alan Agresti and Barbara Finlay.

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Collate 'UNdata.R' 'anorexia.R' 'birth.rates.R' 'crime2005.R' 'fertility.gdp.R' 'fl.crime.R' 'house.selling.price.2.R' 'mental.impairment.R' 'oecd.data.R' 'smss-package.R' 'statewide.crime.2.R' 'student.survey.R' 'utilities.R' 'house.selling.price.R' 'inc.ed.race.13p1.R' 'income.credit.R' 'us.pop.size.R' 'zagat.R'

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NeedsCompilation no

Repository CRAN

Date/Publication 2013-08-22 17:50:48

R topics documented:

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smss-package   *Data from Agresti "Statistical Methods for the Social Sciences"*

Description

Data-only package with the datasets used by the textbook, *Statististical Methods for the Social Sciences* by Alan Agresti and Barbara Finlay.

  • Agresti, Alan and Barbara Finlay (2009), *Statistical Methods for the Social Sciences*, 4th ed.,
    Pearson

  • Agresti, Alan and Barbara Finlay (1997), *Statistical Methods for the Social Sciences*, 3rd ed.,
    Pearson

The datasets included in this package are those avaialable at http://www.stat.ufl.edu/~aa/social/data.html.

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anorexia   *Anorexia Study data*

Description

Weights of Anorexic girls, before and after receiving one of three possible therapies. Thanks to Prof. Brian Everitt, Institute of Psychiatry, London, for supplying these data.

Format

data.frame with 72 observations of the following 4 variables,

subj Subject ID

therapy Therapy type. b = cognitive behavioural, f = family therapy, or c = control.

before Weight before treatment

after Weight after treatment

Source

Examples

```
data(anorexia)
summary(anorexia)
```

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birth.rates	*Birth Rate Data*

Description

Birth rates of several nations. Table 9.13 of 3rd edition.

Format

data.frame with 29 observations of the following 10 variables,

B crude birth rate (number of births per 1000 population size)

W women's economic activity (female labor force as percent of male)

C percent women using contraception

LI female adult literacy rate

LE female life expectancy

HDI human development index (which has components referring to life expectancy at birth, educational attainment, and income per capita)

GNP gross national product (per capita, in thousands of dollars)

N daily newspaper circulation per 100 people

T number of televisions per 100 people.

Source

Examples

```
data(birth.rates)
summary(birth.rates)
```

---

crime2005　　　　　　　　　　*2005 Statewise Crime*

Description

Data from the Statistical Abstract of the United States

Format

`data.frame` with 51 observations of the following 8 variables,

STATE U.S. state

VI violent crime rate (number of violent crimes per 100,000 population)

VI2 violent crime rate (number of violent crimes per 10,000 population)

MU murder rate, ME = percent in metropolitan areas, WH = percent white

HS percent high school graduates

PO percent below the poverty level.

Source

<http://www.stat.ufl.edu/~aa/social/data.html>

Examples

```
data(crime2005)
summary(crime2005)
```

---

fertility.gdp　　　　　　　　*Fertility and GDP Data*

Description

Table 14.6 from the 4th edition.

Format

A `data.frame` with 38 observations on the following 3 variables,

Nation nation

Fertility Fertility rate

GDP GDP per capita

Source

<http://www.stat.ufl.edu/~aa/social/data.html>

Examples

```
data(fertility.gdp)
summary(fertility.gdp)
```

`fl.crime`   *Florida Crime Data*

Description

Crime data for florida counties. Table 9.16 or 9.17 from the 4th edition. Source: Dr. Larry Winner, University of Florida.

Format

`data.frame` with 72 observations of the following 5 variables,

`County` county name

`C` crime rate

`I` median income

`HS` percent completing high school

`U` percent urban

Source

<http://www.stat.ufl.edu/~aa/social/data.html>

Examples

```
data(fl.crime)
summary(fl.crime)
```

`house.selling.price`   *House Selling Price Data*

Description

Selling price of homes in Gainesville, Florida, fall 2006, from Alachua County public records. Excerpt in Table 9.4 of 4th edition.

Format

> `data.frame` with 100 observations of the following 7 variables,
>
> `case` observation id
>
> `Baths` number of bathrooms
>
> `New` whether new (1 = yes, 0 = no)
>
> `Price` selling price (dollars)
>
> `Size` size of home (square feet)

Source

> <http://www.stat.ufl.edu/~aa/social/data.html>

Examples

```
data(house.selling.price)
summary(house.selling.price)
```

`house.selling.price.2` *House Selling Price 2 Data*

Description

> Selling price of homes in Gainesville, Florida, January 1996. Table 9.4 in 3rd edition. Data provided by Jane Myers, Coldwell-Banker Realty.

Format

> `data.frame` with 93 observations of the following 5 variables,
>
> `P` selling price
>
> `Ba` number of bathrooms
>
> `New` whether new (1 = yes, 0 = no)

Source

> <http://www.stat.ufl.edu/~aa/social/data.html>

Examples

```
data(house.selling.price.2)
summary(house.selling.price.2)
```

---

inc.ed.race.13p1   *Income, Education and Race Data*

Description

Data on annual income, number of years of eduction, and racial-ethnic group (Black, Hispanic, White). Table 13.1 of 4th edition.

Format

`data.frame` with 80 observations of the following 5 variables,

`inc` income (thousands of dollars)

`educ` number of years of education (where 12 = high school graduate, 16 = college graduate)

`race` racial-ethnic group (b=Black, h=Hispanic, w=White)

`z1` racial group (1=black, 0=white)

`z2` ethnic group (1=Hispanic, 0=non-Hispanic)

Source

http://www.stat.ufl.edu/~aa/social/data.html

Examples

```
data(inc.ed.race.13p1)
summary(inc.ed.race.13p1)
```

---

income.credit   *Income and Credit Card Possession Data*

Description

Data on annual income (euros), number of subjects at that income level, and number possessing##' a travel credit card. Source: Based on data in "Categorical Data Analysis," Quaderni del Corso Estivo di Statistica e Calcolo delle Probabilita;, n. 4., Istituto di Metodi Quantitativi, Universita; Luigi Bocconi, a cura di R. Piccarreta (1993). Table 15.1 of 4th edition.

Format

`data.frame` with 24 observations of the following 3 variables,

`Income` annual income (euros)

`n` number of subjects

`credit` number possessing a credit card

Source

<http://www.stat.ufl.edu/~aa/social/data.html>

Examples

```
data(income.credit)
summary(income.credit)
```

---

mental.impairment   *Mental Impairment Data*

Description

Data from a study in Alachua County, Florida on between mental health. Source A. Charles Holzer. See Table 11.1 of the 4th edition.

Format

`data.frame` with 40 observations of the following 3 variables,

`impair` Mental impairment

`life` Life events score

`ses` Social economic status

Source

<http://www.stat.ufl.edu/~aa/social/data.html>

Examples

```
data(mental.impairment)
summary(mental.impairment)
```

---

oecd.data   *OECD Data*

Description

The OECD (Organization for Economic Cooperation and Development) is an international organized that consists of developed countries. This dataset has UN data on OECD countries.

See Table 3.11 and Exercise 3.6.

Format

`data.frame` with 23 observations of the following 9 variables,

`nation` Country name

`GDP` GDP per capita (in US dollars)

`Unemploy` Percent unemployed

`Inequal` A measure of inequality that compares the wealth of the richest 10% to the poorest 10%

`Health` Public expenditure on health (as a percent of GDP)

`Phys` Number of physicians per 100,000 people

`CO2` Carbon dioxide emissions (per capita, in metric tons)

`Parlia` The percentage of seats in parliament held by women.

`FemEcon` Female economic activity as a percentage of the male rate

Source

<http://www.stat.ufl.edu/~aa/social/data.html>

Examples

```
data(oecd.data)
summary(oecd.data)
```

---

statewide.crime.2 *Statewide Crime 2*

Description

The data are from Statistical Abstract of the United States and most variables were measured in 1993. Table 9.1 of the 3rd edition, and some appear in Table 9.1 of the 4th edition.

Format

`data.frame` with 51 observations of the following 8 variables,

`State` U.S. State

`VR` violent crime rate (per 100,000 people in population)

`MR` murder rate (per 100,000 people in population)

`M` percent in metropolitan areas

`W` percent white

`H` percent high school graduates

`P` percent with income below the poverty level

`S` percent of families headed by a single parent.

Source

<http://www.stat.ufl.edu/~aa/social/data.html>

Examples

```
data(statewide.crime.2)
summary(statewide.crime.2)
```

---

student.survey   *Student Survey data*

Description

This data file consists of responses of graduate students in the social sciences enrolled in STA 6126 in a recent term at the University of Florida.

Format

`data.frame` with 60 observations of the following 18 variables,

GE gender

AG age in years

HI high school GPA (on a four-point scale)

CO college GPA

DH distance (in miles) of the campus from your home town

DR distance (in miles) of the classroom from your current residence

TV average number of hours per week that you watch TV

SP average number of hours per week that you participate in sports or have other physical exercise

NE number of times a week you read a newspaper

AH number of people you know who have died from AIDS or who are HIV+

VE whether you are a vegetarian

PA political affiliation (d = Democrat, r = Republican, i = independent)

PI political ideology

RE how often you attend religious services

AB opinion about whether abortion should be legal in the first three months of pregnancy

AA support affirmative action

LD belief in life after death

Source

<http://www.stat.ufl.edu/~aa/social/data.html>

Examples

```
data(student.survey)
summary(student.survey)
```

UNdata	*Data from 2005 UN Human Development Report.*

Description

These data are from the Human Development report of 2005. Note however that the values given are from 2003 except for CO2 which is 2002.

Table 9.13 in the 4th Edition.

Format

`data.frame` with 39 observations of the following 11 variables,

HDI HDI value

Fert Total Fertility rate (births/woman)

Cont Contraceptive prevalence rate (%)

Cell Cellular subscribers (per 1000 people)

Inter Internet users (per 1000 people)

GDP GDP per capita (US$)

CO2 Carbon dioxide emissions per capita (metric tons)

Life Life expectancy at birth, female (years)

Liter Adult literacy rate (female rate % ages 15 and above)

FemEc Female economic activity rate (% of male rate, ages 15 and above)

Source

http://www.stat.ufl.edu/~aa/social/data.html

Examples

```
data(UNdata)
summary(UNdata)
```

`us.pop.size`   *U.S. Population Size Data*

Description

US population size by decade. Table 14.8 of 4th edition.

Format

`data.frame` with 12 observations of the following 2 variables,

`decade` Decade (0=1890, 11=2000)

`population` Population (millions)

Source

http://www.stat.ufl.edu/~aa/social/data.html

Examples

```
data(us.pop.size)
summary(us.pop.size)
```

`zagat`   *Zagat restraunt rating of Italian Restraunts Data*

Description

Zagat restraunt rating of Italian Restraunts Data. Examples 3.59, 3.60, and 9.38 of 4th edition.

Format

`data.frame` with 193 observations of the following 6 variables,

`City` City

`Restaurant` Restaurant

`Food` Food

`Decor` Decor

`Service` Service

`Cost` Cost

Source

http://www.stat.ufl.edu/~aa/social/data.html

Examples

```
data(zagat)
summary(zagat)
```

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