gapminder {gapminder} R Documentation

Gapminder data.

Description

Excerpt of the Gapminder data on life expectancy, GDP per capita, and population by country.

Usage

```
gapminder
```

Format

The main data frame `gapminder` has 1704 rows and 6 variables:

country

: factor with 142 levels

continent

: factor with 5 levels

year

: ranges from 1952 to 2007 in increments of 5 years

lifeExp

: life expectancy at birth, in years

pop

: population

gdpPercap

: GDP per capita (US$, inflation-adjusted)

The supplemental data frame `gapminder_unfiltered` was not filtered on `year` or for complete data and has 3313 rows.

Source

http://www.gapminder.org/data/

	country	continent	year	lifeExp	pop	gdpPercap
row names	hanistan	Asia	1952	28.801	8425333	779.4453
2	Afghanistan	Asia	1957	30.332	9240934	820.8530
3	Afghanistan	Asia	1962	31.997	10267083	853.1007
4	Afghanistan	Asia	1967	34.020	11537966	836.1971
5	Afghanistan	Asia	1972	36.088	13079460	739.9811
6	Afghanistan	Asia	1977	38.438	14880372	786.1134
7	Afghanistan	Asia	1982	39.854	12881816	978.0114
8	Afghanistan	Asia	1987	40.822	13867957	852.3959
9	Afghanistan	Asia	1992	41.674	16317921	649.3414
10	Afghanistan	Asia	1997	41.763	22227415	635.3414
11	Afghanistan	Asia	2002	42.129	25268405	726.7341
12	Afghanistan	Asia	2007	43.828	31889923	974.5803
13	Albania	Europe	1952	55.230	1282697	1601.0561
14	Albania	Europe	1957	59.280	1476505	1942.2842
15	Albania	Europe	1962	64.820	1728137	2312.8890
16	Albania	Europe	1967	66.220	1984060	2760.1969
17	Albania	Europe	1972	67.690	2263554	3313.4222
18	Albania	Europe	1977	68.930	2509048	3533.0039
19	Albania	Europe	1982	70.420	2780097	3630.8807
20	Albania	Europe	1987	72.000	3075321	3738.9327
21	Albania	Europe	1992	71.581	3326498	2497.4379
22	Albania	Europe	1997	72.950	3428038	3193.0546
23	Albania	Europe	2002	75.651	3508512	4604.2117
24	Albania	Europe	2007	76.423	3600523	5937.0295
25	Algeria	Africa	1952	43.077	9279525	2449.0082
26	Algeria	Africa	1957	45.685	10270856	3013.9760

A data set from Cushny and Peebles (1905) on the effect of three drugs on hours of sleep, used by Student (1908)

Description

The classic data set used by Gossett (publishing as Student) for the introduction of the t-test. The design was a within subjects study with hours of sleep in a control condition compared to those in 3 drug conditions. Drug1 was 06mg of L Hscyamine, Drug 2L and Drug2R were said to be .6 mg of Left and Right isomers of Hyoscine. As discussed by Zabell (2008) these were not optical isomers. The detal1, delta2L and delta2R are changes from the baseline control.

Usage

```
data(cushny)
```

Format

A data frame with 10 observations on the following 7 variables.

`Control`

Hours of sleep in a control condition

`drug1`

Hours of sleep in Drug condition 1

`drug2L`

Hours of sleep in Drug condition 2

`drug2R`

Hours of sleep in Drug condition 3 (an isomer of the drug in condition 2

`delta1`

Change from control, drug 1

`delta2L`

Change from control, drug 2L

`delta2R`

Change from control, drug 2R

Details

The original analysis by Student is used as an example for the t-test function, both as a paired t-test and a two group t-test. The data are also useful for a repeated measures analysis of variance.

	Control	drug1	drug2L	drug2R	delta1	delta2L	delta2R
1	0.6	1.3	2.5	2.1	0.7	1.9	1.5
2	3.0	1.4	3.8	4.4	−1.6	0.8	1.4
3	4.7	4.5	5.8	4.7	−0.2	1.1	0.0
4	5.5	4.3	5.6	4.8	−1.2	0.1	−0.7
5	6.2	6.1	6.1	6.7	−0.1	−0.1	0.5
6	3.2	6.6	7.6	8.3	3.4	4.4	5.1
7	2.5	6.2	8.0	8.2	3.7	5.5	5.7
8	2.8	3.6	4.4	4.3	0.8	1.6	1.5
9	1.1	1.1	5.7	5.8	0.0	4.6	4.7
10	2.9	4.9	6.3	6.4	2.0	3.4	3.5