

Package ‘statprograms’

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Title Graduate Statistics Program Datasets

Version 0.2.0

Description A small collection of data on graduate statistics programs from the United States.

URL <http://brettklamer.com/work/statprograms/>

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Depends R (>= 2.10.0)

LazyData TRUE

RoxygenNote 6.0.1

NeedsCompilation no

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degreesawarded	<i>Degrees Awarded by Year</i>
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Description

This dataset contains the number of degrees awarded per year. It's based on data from the National Center for Education Statistics as retrieved by Steve Pierson. See <http://community.amstat.org/blogs/steve-pierson/2014/07/28/categorization-of-statistics-degrees> for more information.

Usage

degreesawarded

Format

A data.frame with 4606 observations and 5 columns. The columns are defined as follows:

school The college

program_category The program type categorized as either "Statistics" or "Biostatistics"

degree_category The degree categorized as either "Master" or "Doctorate"

year The year the degrees were awarded

count The number of degrees awarded

Source

"Statistics and Biostatistics Degree Data.", www.amstat.org/asa/education/Statistics-and-Biostatistics-Degree.aspx

Examples

```
## Not run:
data(degreesawarded)
summary(degreesawarded)

# In wide format as provided by Steve Pierson
library(tidyr)
spread(degreesawarded, key = year, value = count)

## End(Not run)
```

statprograms

Graduate Statistics Program Data

Description

This dataset contains various information from the majority of graduate statistics programs in the United States.

Usage

statprograms

Format

A data frame with 490 observations and 16 columns. The columns are defined as follows:

school The college

program The program type as advertised by the department

program_category The program type categorized as either "Statistics" or "Biostatistics"

degree The degree given by the department

degree_category The degree categorized as either "Master" or "Doctorate"

state The state

city The city

square_miles The square miles of the city (or region) from <https://www.wikipedia.org/>

population The population of the city (or region) from <https://www.wikipedia.org/> or <https://www.census.gov/programs-surveys/popest/data/data-sets.html>. Most are estimates from 2010 to 2014.

density The population density

average_winter The average winter temperature from <http://weatherdb.com>

average_summer The average summer temperature from <http://weatherdb.com>

latitude The latitude of the department's building (or as close as possible) from <http://www.gps-coordinates.net>

longitude The longitude of the department's building (or as close as possible) from <http://www.gps-coordinates.net>

link The URL of the department's website

date_collected The date the information was recorded

Author(s)

Brett Klamer

Examples

```
## Not run:
data(statprograms)
summary(statprograms)

#-----
# Plot locations on a map
#-----
library(maps)
library(ggplot2)
library(mapproj)

us_states <- map_data("state")

ggplot(
  data = statprograms[statprograms$state != "Alaska", ],
```

```
mapping = aes(x = longitude, y = latitude)
) +
geom_polygon(
  data = us_states,
  aes(x = long, y = lat, group = group),
  fill = "white",
  color = "gray50",
  size = 0.5
) +
geom_point() +
guides(fill = FALSE) +
coord_map(
  projection = "albers",
  lat0 = 39,
  lat1 = 45
) +
theme_bw()

## End(Not run)
```

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