

Package ‘gunsales’

May 8, 2026

Type Package

Title Statistical Analysis of Monthly Background Checks of Gun Purchases

Version 0.1.3

Date 2026-01-13

Description

Statistical analysis of monthly background checks of gun purchases for the New York Times story ``What Drives Gun Sales: Terrorism, Obama and Calls for Restrictions" at <https://www.nytimes.com/interactive/2015/12/10/us/gun-sales-terrorism-obama-restrictions.html> is provided.

License Apache License (== 2)

LazyData true

Depends R (>= 3.0.0)

Imports utils, dplyr, rlang, seasonal, ggplot2, data.table, zoo, x13binary

Suggests knitr, rmarkdown

URL <https://github.com/eddelbuettel/gunsales>

BugReports <https://github.com/eddelbuettel/gunsales/issues>

VignetteBuilder knitr

RoxygenNote 5.0.1

NeedsCompilation no

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alldata	<i>Source data from the FBI's National Instant Criminal Background Check System</i>
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Description

It was converted from the original PDF format to CSV using Tabula.

Format

A 'tbl_df' and data frame object with 11480 observation of 34 variables

Source

https://www.fbi.gov/file-repository/nics_firearm_checks_-_month_year_by_state_type.pdf

See Also

The GitHub repository created by BuzzFeed containing a similar data set at <https://github.com/BuzzFeedNews/nics-firearm-background-checks/>

analysis	<i>Run Statistical Analysis of Monthly Background Checks of Gun Purchase</i>
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Description

Run Statistical Analysis of Monthly Background Checks of Gun Purchase

Usage

```
analysis(debug = FALSE)
```

Arguments

debug	Optional boolean switch to indicate whether interim data is displayed; default is 'FALSE'
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Value

A data.frame is returned, contained all different prepared columns.

Author(s)

Gregor Aisch and Josh Keller wrote the R code; Dirk Eddelbuettel created and maintains the package.

See Also

The NY Times article presenting this analysis undertaken by this package is at <https://www.nytimes.com/interactive/2015/12/10/us/gun-sales-terrorism-obama-restrictions.html>

Examples

```
## Not run:  
gs <- analysis()  
plot_gunsales(gs)  
ggplot_gunsales(gs)  
  
## End(Not run)
```

ggplot_gunsales

ggplot2 plots for gunsales analysis

Description

This function creates (ggplot2) plots for gunsales analysis.

Usage

```
ggplot_gunsales(df, savePlots = FALSE, savePNG = FALSE)
```

Arguments

df	A data.frame as prepared by the analysis functions.
savePlots	A boolean toggle to indicate if the plots are to be saved in the out/ directory as a single pdf file, with a default of FALSE.
savePNG	A boolean toggle to indicate if the plots are to be saved in the out/ directory as individual png files, with a default of FALSE.

Details

In interactive mode, plot display is paused and the user has to advance by pressing the Return key.

Value

NULL is returned invisibly.

Author(s)

Gregor Aisch and Josh Keller wrote the R code; Dirk Eddelbuettel created and maintains the package.

See Also

The NY Times article presenting this analysis undertaken by this package is at <https://www.nytimes.com/interactive/2015/12/10/us/gun-sales-terrorism-obama-restrictions.html>

Examples

```
## Not run:  
gs <- analysis()  
ggplot_gunsales(gs)  
  
## End(Not run)
```

plot_gunsales

Base Plots for gunsales analysis

Description

This function creates (base graphics) plots for gunsales analysis.

Usage

```
plot_gunsales(df, savePlots = FALSE)
```

Arguments

df	A data.frame as prepared by the analysis functions.
savePlots	A boolean toggle to indicate if the plots are to be saved in the out/ directory, with a default of FALSE.

Details

In interactive mode, plot display is paused and the user has to advance by pressing the Return key.

Value

NULL is returned invisibly.

Author(s)

Gregor Aisch and Josh Keller wrote the R code; Dirk Eddelbuettel created and maintains the package.

See Also

The NY Times article presenting this analysis undertaken by this package is at <https://www.nytimes.com/interactive/2015/12/10/us/gun-sales-terrorism-obama-restrictions.html>

Examples

```
## Not run:  
gs <- analysis()  
plot_gunsales(gs)  
  
## End(Not run)
```

poptotal	<i>US Population Growth data</i>
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Description

Monthly observations about population growth

Format

A 'tbl_df' and data frame object with 217 observations of 3 variables

Source

US Census Bureau

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