

# Package ‘gunsales’

October 13, 2022

**Type** Package

**Title** Statistical Analysis of Monthly Background Checks of Gun Purchases

**Version** 0.1.2

**Date** 2017-01-30

**Author** Gregor Aisch, Josh Keller and Dirk Eddelbuettel

**Maintainer** Dirk Eddelbuettel <edd@debian.org>

## 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 <http://www.nytimes.com/interactive/2015/12/10/us/gun-sales-terrorism-obama-restrictions.html?> is provided.

**License** Apache License (== 2)

**Depends** R (>= 2.10)

**LazyData** true

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

**Suggests** knitr, rmarkdown

**VignetteBuilder** knitr

**RoxygenNote** 5.0.1

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2017-01-30 15:35:35

## R topics documented:

alldata . . . . .	2
analysis . . . . .	2
ggplot_gunsales . . . . .	3
plot_gunsales . . . . .	4
poptotal . . . . .	5
<b>Index</b>	<b>6</b>

---

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

---

**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](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>
----------	--

---

**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'
-------	---

**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 <http://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 <a href="#">analysis</a> 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 <http://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 <a href="#">analysis</a> 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 <http://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>
----------	----------------------------------

---

**Description**

Monthly observations about population growth

**Format**

A 'tbl\_df' and data frame object with 217 observation of 3 variables

**Source**

US Census Bureau

# Index

`alldata`, [2](#)

`analysis`, [2](#), [3](#), [4](#)

`ggplot_gunsales`, [3](#)

`plot_gunsales`, [4](#)

`poptotal`, [5](#)