# Statistical Analysis of Monthly Background Checks of Gun Purchases

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## **About**

This document provides the analysis from the <u>New York Times</u> on-line article <u>"What Drives Gun Sales: Terrorism, Obama and Calls for Restrictions"</u>. The <u>R</u> code underlying the analysis is provided in the <u>GitHub</u> repository <u>gunsales</u> which contains the R package

#### Part I Data

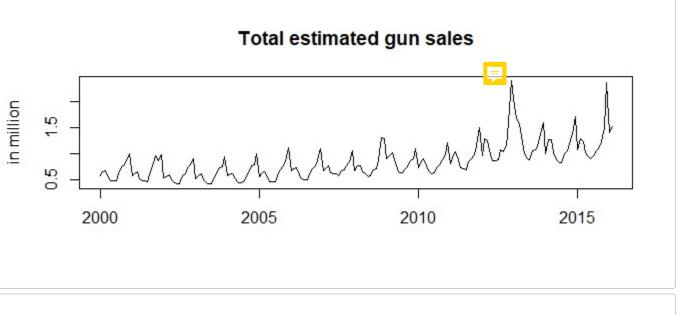
The first step consists in transforming the two raw data sets included in the package into the data.frame used for the subsequent plotting.

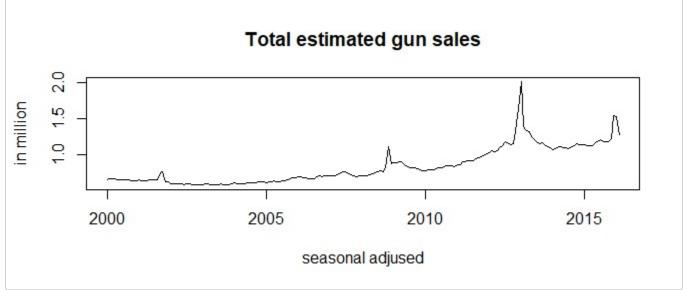
```
gunsales <- analysis()
## [1] "Increase in monthly gun sales in Missouri = 8773.09"</pre>
```

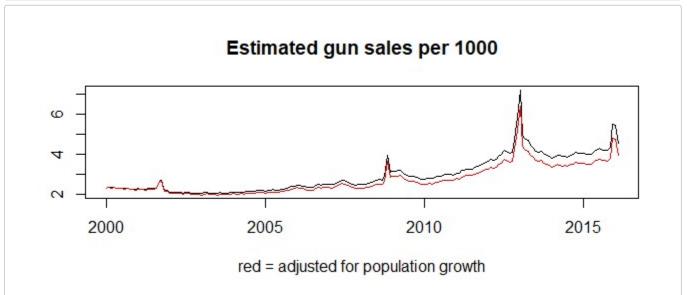
## Part II: Base Plots

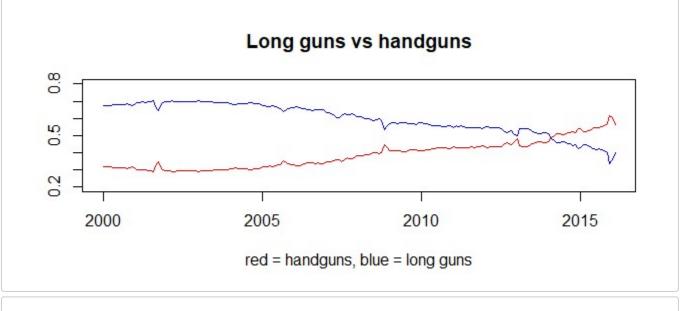
Given the transformed data, we can display the variety of plots contained in the New York Times analysis (which uses post-processed variants suitable for publication).

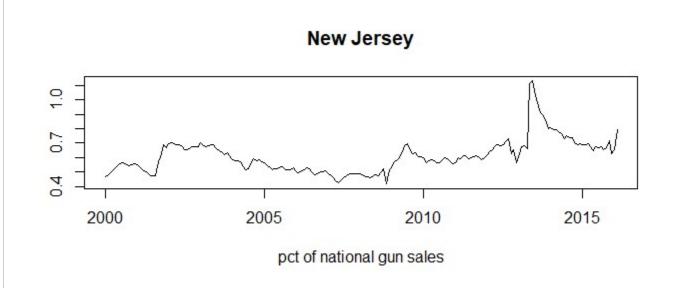
plot\_gunsales(gunsales)

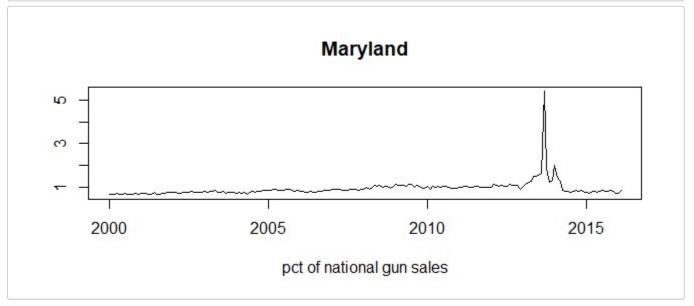


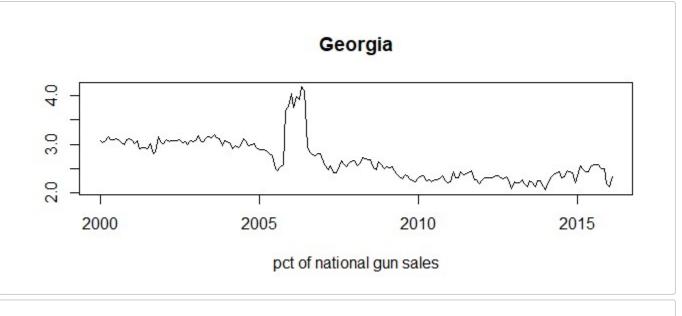


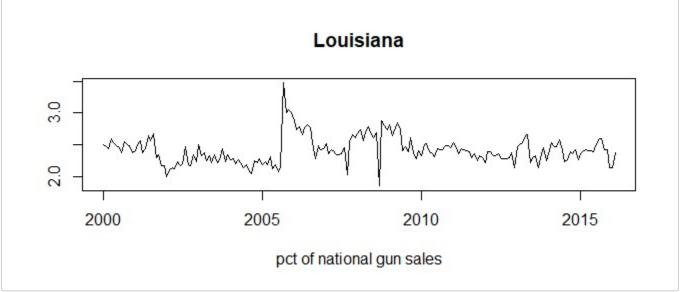


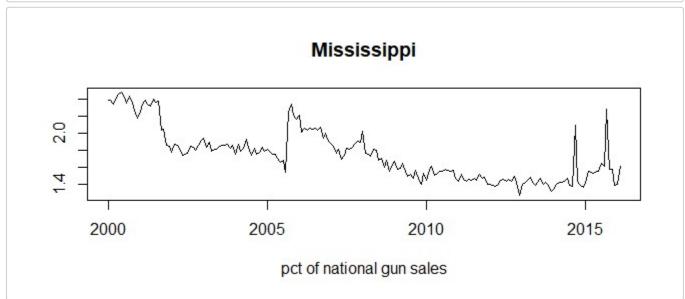


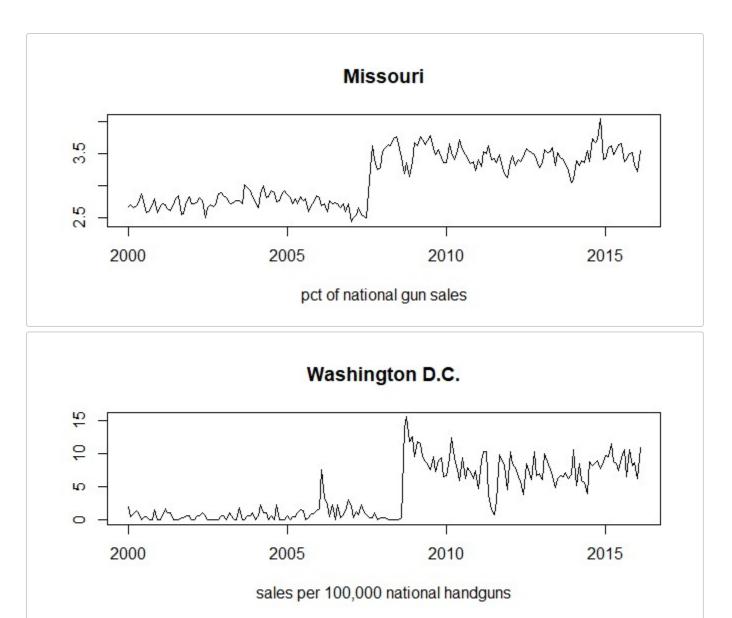








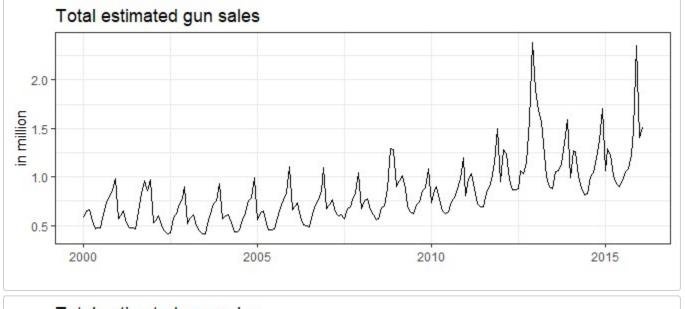


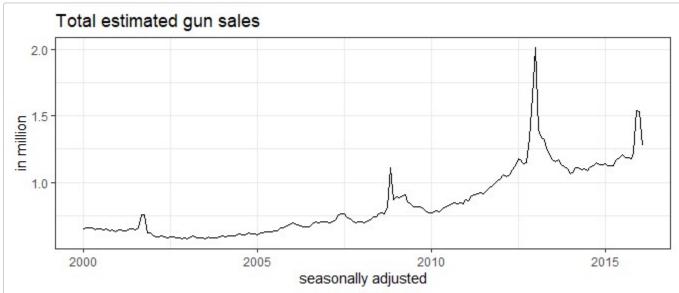


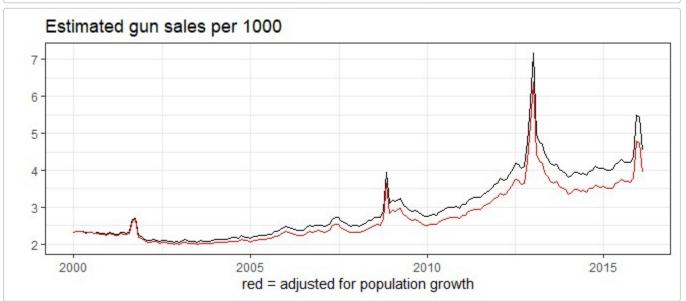
# Part III: Using ggplot

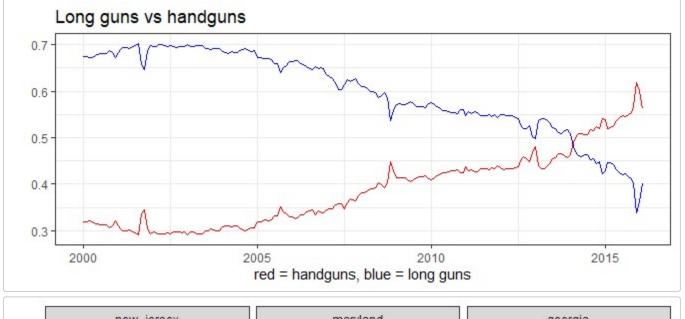
The second set of charts redisplays the same charts as before, but using the <a href="mailto:ggplot2">ggplot2</a> package.

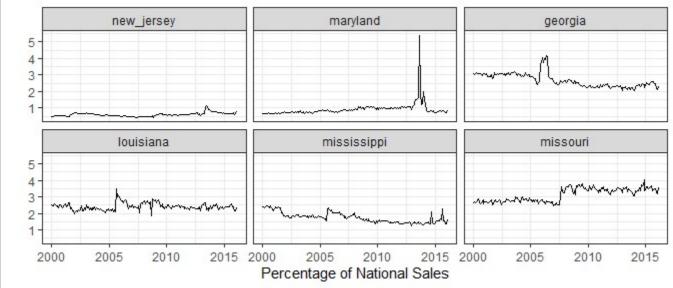
ggplot\_gunsales(gunsales)

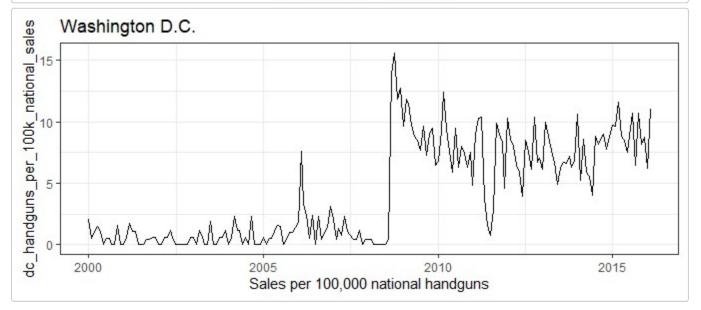












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