Visualize Google Trends Data

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Notes:

1. The author accepts no responsibility for the topicality, correctness, completeness, or quality of the information provided.
2. This pdf is part of a YouTube tutorial: https://youtu.be/cAVChNFGlz0
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Read Data Table

```
Google_Trends_Tesla<-read.csv("https://raw.githubusercontent.com/tidydatayt/google_trends_business_resea

head(Google_Trends_Tesla)
```

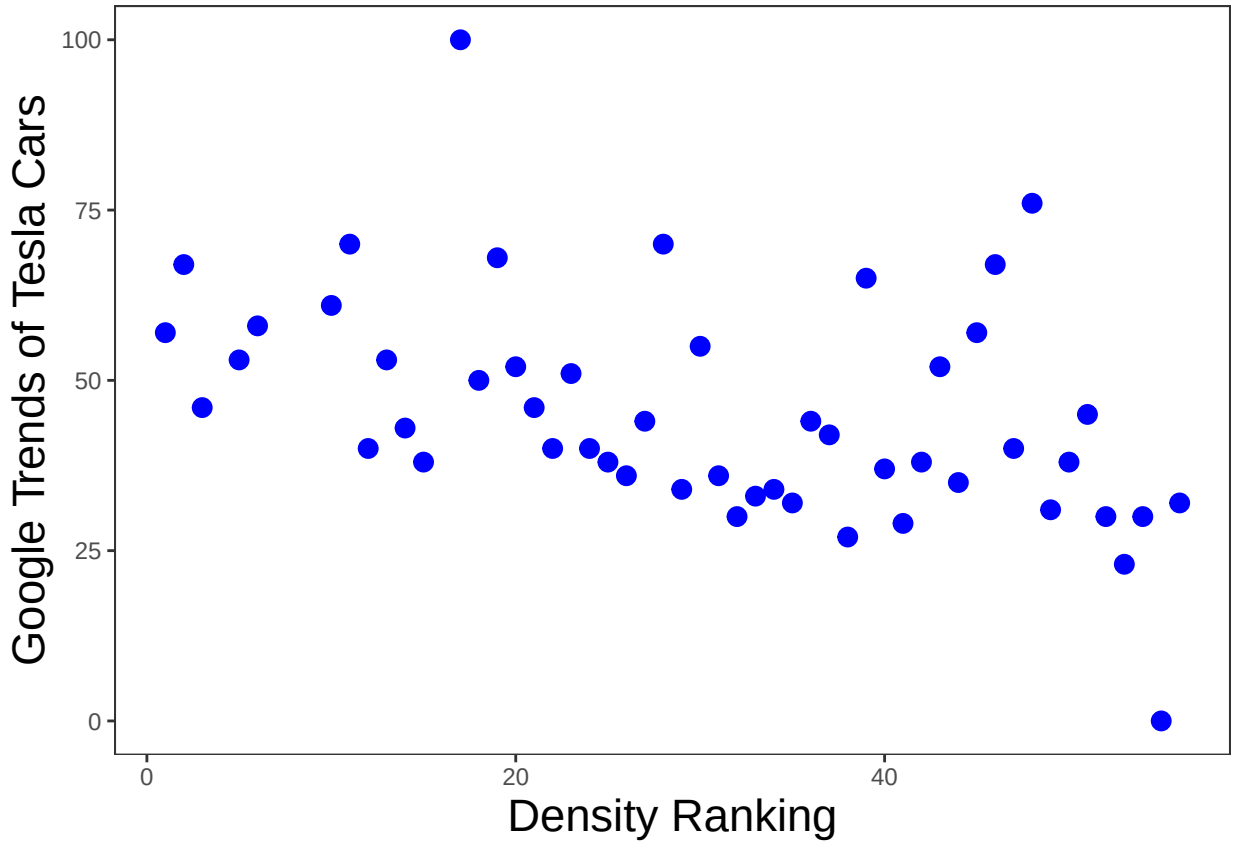
```
##        State Density.Ranking tesla.cars
## 1    Alabama              33         33
## 2     Alaska              56         32
## 3    Arizona              39         65
## 4   Arkansas              40         37
## 5 California              17        100
## 6   Colorado              43         52
```

Basic ggplot (Scatterplot)

```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 4.1.3
```

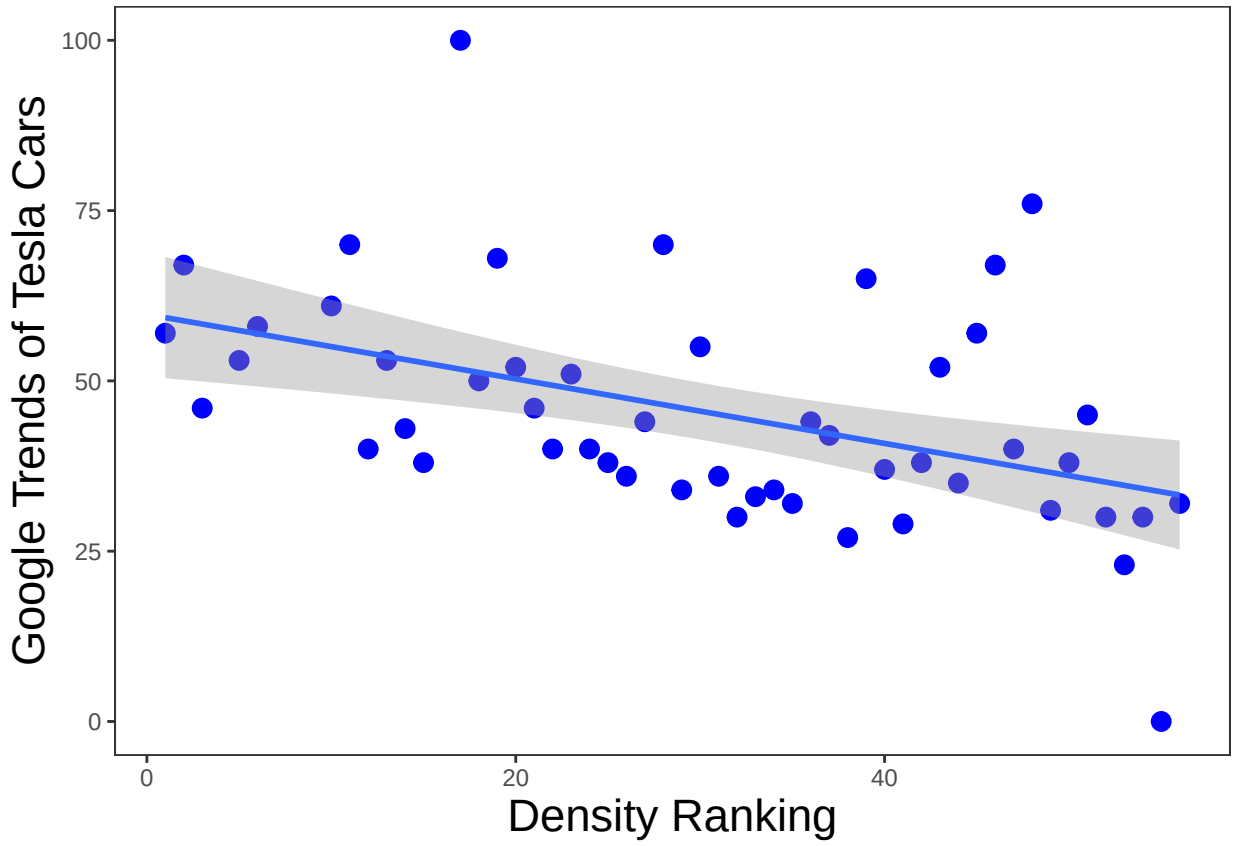
```
plot_a<-ggplot(Google_Trends_Tesla, aes(x=Density.Ranking, y=tesla.cars)) + geom_point(color = "blue", s
  theme(axis.title.y = element_text(size = rel(1.5), angle = 90))

plot_a
```



Add Trendline

```
plot_b<-plot_a+geom_smooth(method=lm)
plot_b
```

```
## `geom_smooth()` using formula 'y ~ x'
```



Add State Labels

```
## install.packages("ggrepel")
library(ggrepel)
plot_c<-plot_b+geom_label_repel(aes(x=Density.Ranking, y=tesla.cars, label = State))
plot_c
```

```
## `geom_smooth()` using formula 'y ~ x'
```

```
## Warning: ggrepel: 14 unlabeled data points (too many overlaps). Consider
## increasing max.overlaps
```