Google Search Analytics

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12/7/2021

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this: #install.packages("gtrendsR")

```
library(ggplot2)
library(scales)

library(gtrendsR)
```

Including Plots

You can also embed plots, for example:

```
data_set = gtrends(keyword = "Machine Learning")$interest_by_country
data_set = data_set[-c(3:5)]
data_set = na.omit(data_set)
head(data_set,10)
```

```
##          location hits
## 1           China  100
## 2       Singapore   39
## 3      St. Helena   30
## 4         Ethiopia  28
## 5           India   28
## 7       Hong Kong   23
## 8      South Korea  22
## 11          Nepal   17
## 12        Pakistan  17
## 14      Bangladesh  16
```

```
data_setTemp= head(data_set,10)
ggplot(data_setTemp, aes(x=reorder(location,-hits), y=hits)) +
  geom_bar(stat="identity", fill="steelblue")+ labs(x = "geoName", y = "Machine learning", color = "Leg
theme(axis.text.x = element_text(angle = 90))
```
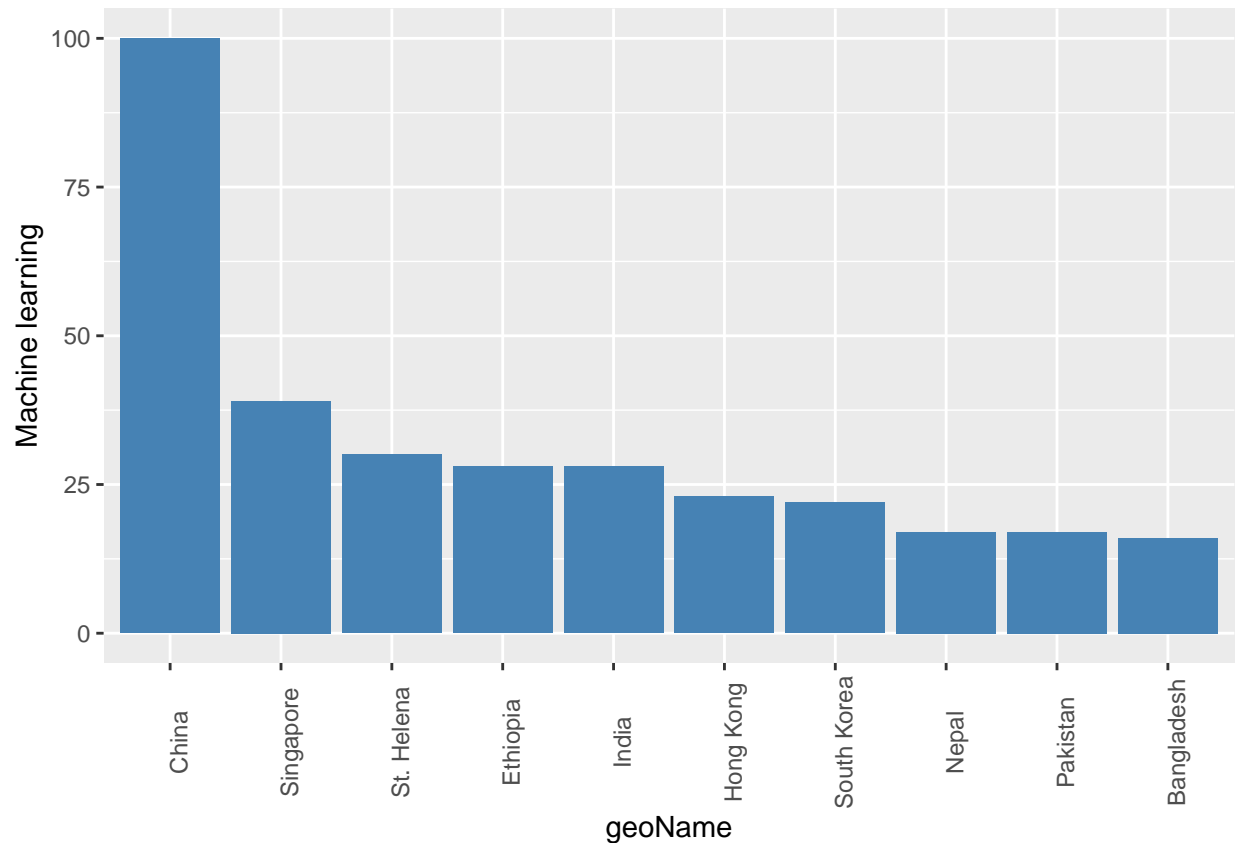
```
data_set = gtrends(keyword = "Machine Learning")$interest_over_time
data_set = data_set[-c(3:7)]
head(data_set,10)
```

```
##          date hits
## 1  2016-12-11   45
## 2  2016-12-18   44
## 3  2016-12-25   33
## 4  2017-01-01   40
## 5  2017-01-08   53
## 6  2017-01-15   43
## 7  2017-01-22   47
## 8  2017-01-29   50
## 9  2017-02-05   49
## 10 2017-02-12   53
```

```
tail(data_set,1)
```

```
##           date hits
## 260 2021-11-28   61
```

```
data_setTemp=data_set
ggplot(data_setTemp, aes(x=date, y=hits)) +
  geom_line(stat="identity",  color="steelblue")+
```

```
labs(title="Total Google Searches for Machine Learning",  x = "Year",   y = "Total Count",   color = "
theme_minimal()
```


Total Google Searches for Machine Learning
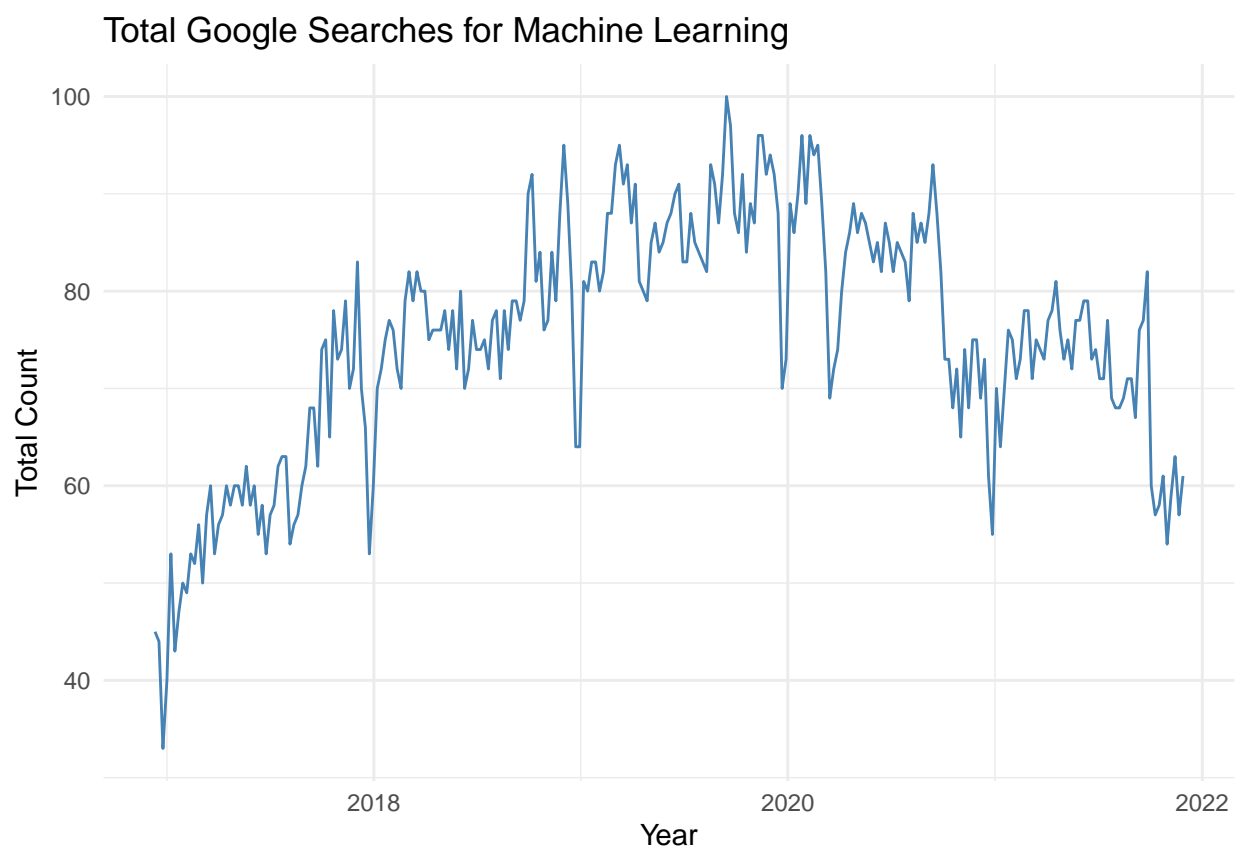
Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.