

Google-Search-Analysis

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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:

```
library(ggplot2)
library(scales)
library(gtrendsR)
```

```
## Warning: package 'gtrendsR' was built under R version 4.1.2
```

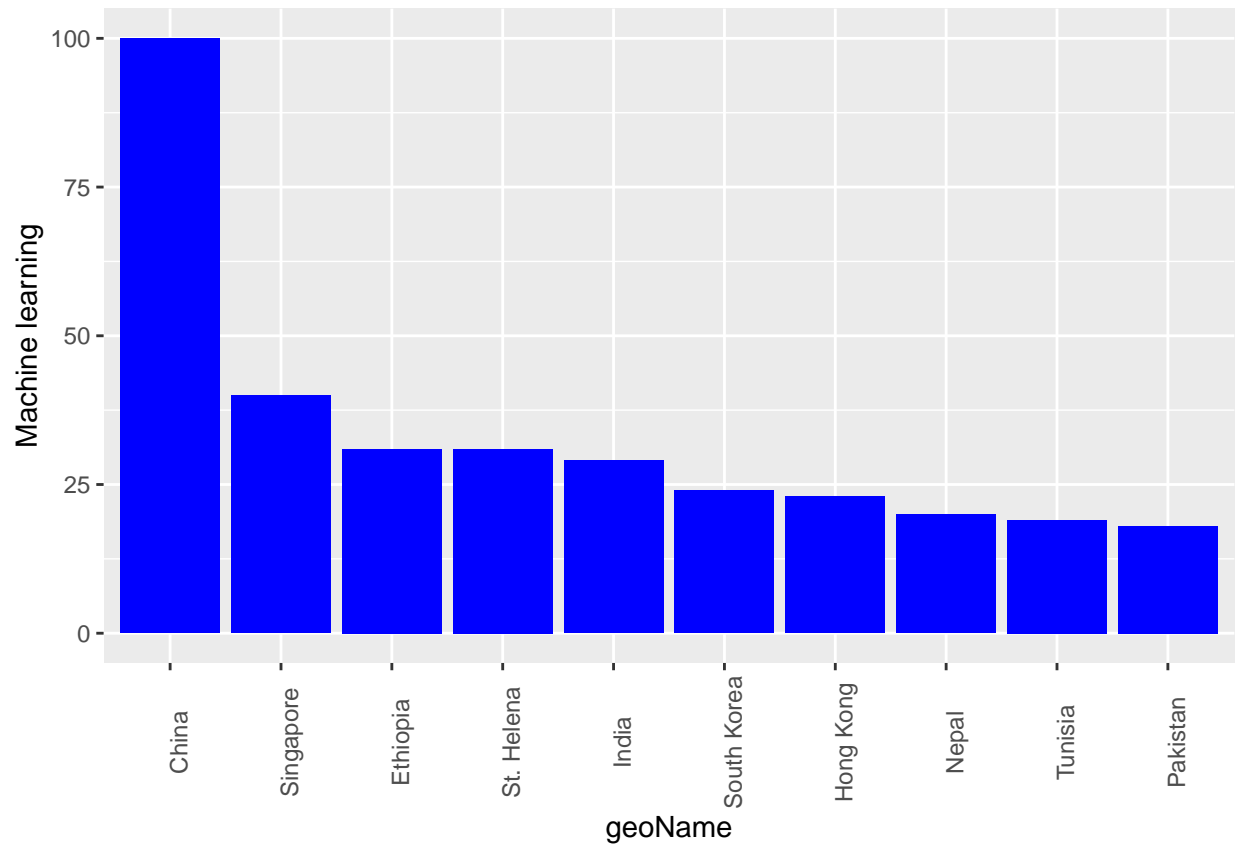
Including Plots

You can also embed plots, for example:

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

```
##      location hits
## 1      China  100
## 2  Singapore   40
## 4  St. Helena   31
## 5   Ethiopia   31
## 6      India   29
## 7 South Korea   24
## 8   Hong Kong   23
## 9      Nepal   20
## 11   Tunisia   19
## 12  Pakistan   18
```

```
tempDataSet= head(dataSet,10)
ggplot(tempDataSet, aes(x=reorder(location,-hits), y=hits)) +
  geom_bar(stat="identity", fill="blue")+ labs(x = "geoName", y = "Machine learning", color = "Legend T
  theme(axis.text.x = element_text(angle = 90))
```



```
dataSet = gtrends(keyword = "Machine Learning")$interest_over_time
dataSet = dataSet[-c(3:7)]
head(dataSet,10)
```

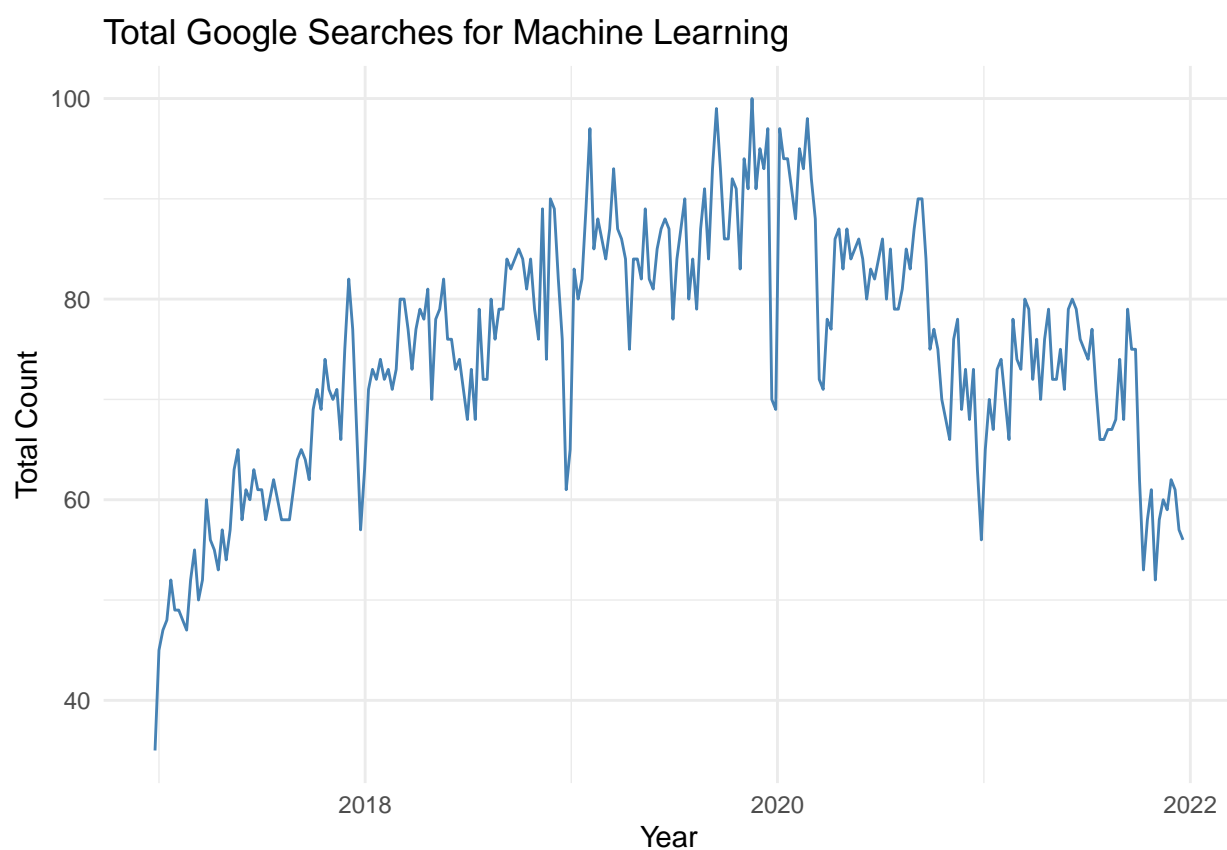
```
##      date hits
## 1 2016-12-25  35
## 2 2017-01-01  45
## 3 2017-01-08  47
## 4 2017-01-15  48
## 5 2017-01-22  52
## 6 2017-01-29  49
## 7 2017-02-05  49
## 8 2017-02-12  48
## 9 2017-02-19  47
## 10 2017-02-26  52
```

```
tail(dataSet,1)
```

```
##      date hits
## 261 2021-12-19  56
```

```
tempDataSet=dataSet
ggplot(tempDataSet, 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 = "blue") +  
theme_minimal()
```



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.