

2.2RCharts_AHarvey

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0.0.1 2.2 - Line and Step Charts : R

```
[5]: # Library to read the Excel document
library("readxl")
# For plots
library("dplyr")
library("ggplot2")
library("reshape2")
```

```
[2]: # Import Excel document
worldpop <- read_excel("world-population.xlsm")
```

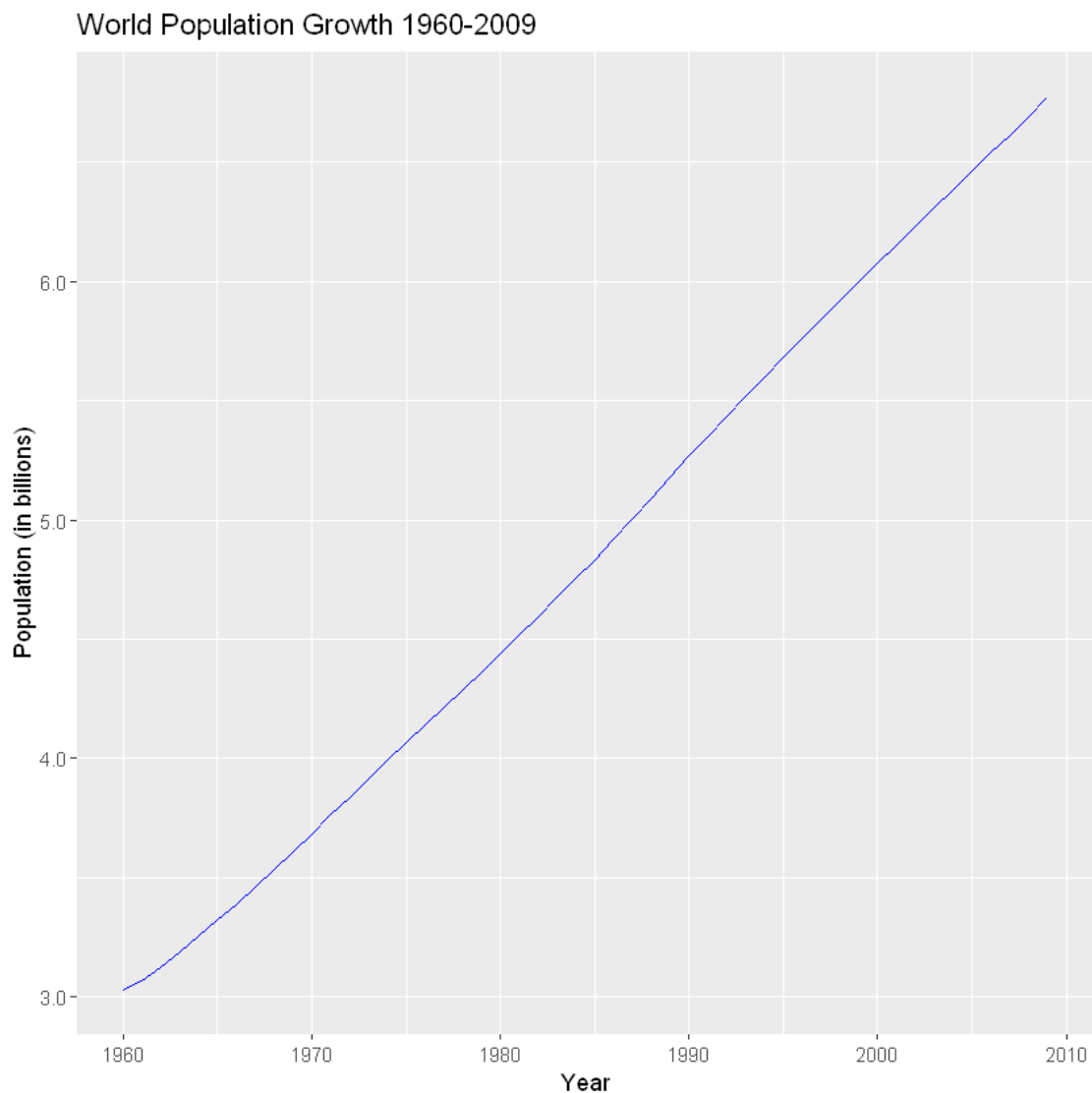
```
[3]: print(worldpop)
```

```
# A tibble: 50 x 2
  Year Population
  <dbl>      <dbl>
1  1960 3028654024
2  1961 3068356747
3  1962 3121963107
4  1963 3187471383
5  1964 3253112403
6  1965 3320396924
7  1966 3390712300
8  1967 3460521851
9  1968 3531547287
10 1969 3606994959
# ... with 40 more rows
```

```
[13]: # Line chart. The most difficult time I had with this was trying to format the
      ↪ y-axis labels. After a lot of searching, I found
      # help at https://bookdown.org/Maxime/ggplot2-maps/posts/
      ↪ 2019-11-27-using-scales-package-to-modify-ggplot2-scale/

ggplot(worldpop, aes(y=Population, x=Year)) +
  geom_line(color = "blue") +
  labs(title = "World Population Growth 1960-2009", x = "Year", y =
      ↪ "Population (in billions)") +
```

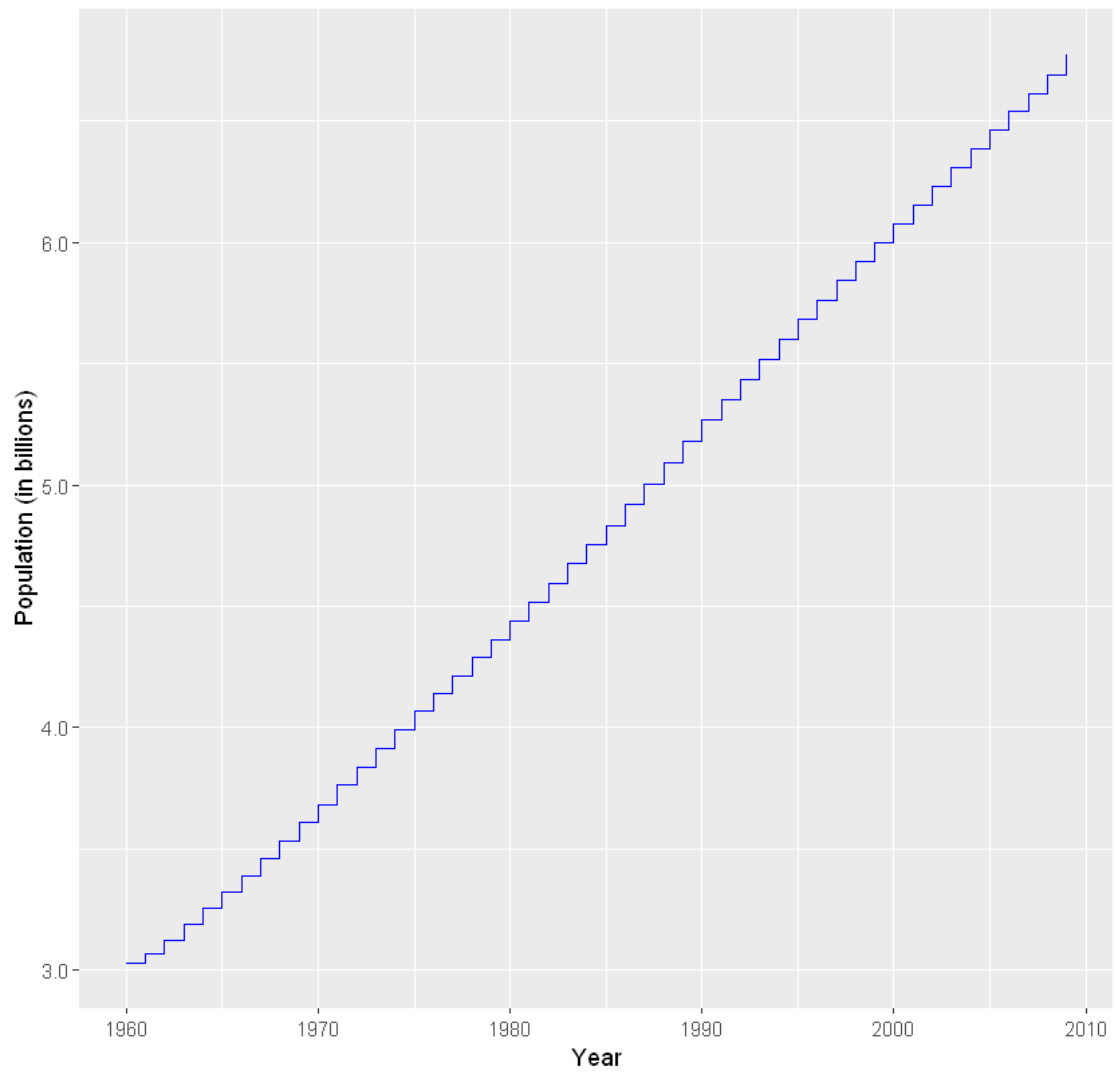
```
scale_y_continuous(labels = scales::label_number(scale = 1/1000000000))
```



```
[14]: # Step chart. This one was much easier after having the foundation made for the  
      ↪ line chart.
```

```
ggplot(worldpop, aes(y=Population, x=Year)) +  
  geom_step(color = "blue") +  
  labs(title = "World Population Growth 1960-2009", x = "Year", y =  
    ↪ "Population (in billions)") +  
  scale_y_continuous(labels = scales::label_number(scale = 1/1000000000))
```

World Population Growth 1960-2009



[]: