Plots using R

In [1]:

```
# Import Libraries
library(ggplot2)
library(readxl)
```

```
Warning message:
"package 'ggplot2' was built under R version 3.6.3"Warning message:
"package 'readxl' was built under R version 3.6.3"
```

In [2]:

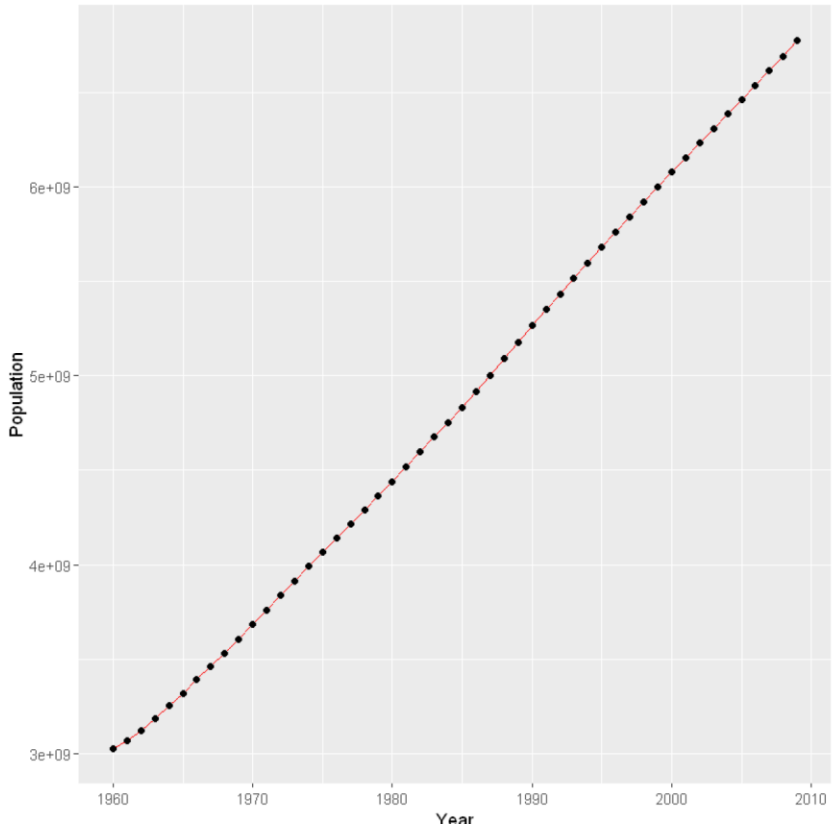
```
# Read the data
population <- read_excel('world-population.xlsm')
head(population)
```

A tibble: 6 × 2

Year	Population
<dbl>	<dbl>
1960	3028654024
1961	3068356747
1962	3121963107
1963	3187471383
1964	3253112403
1965	3320396924

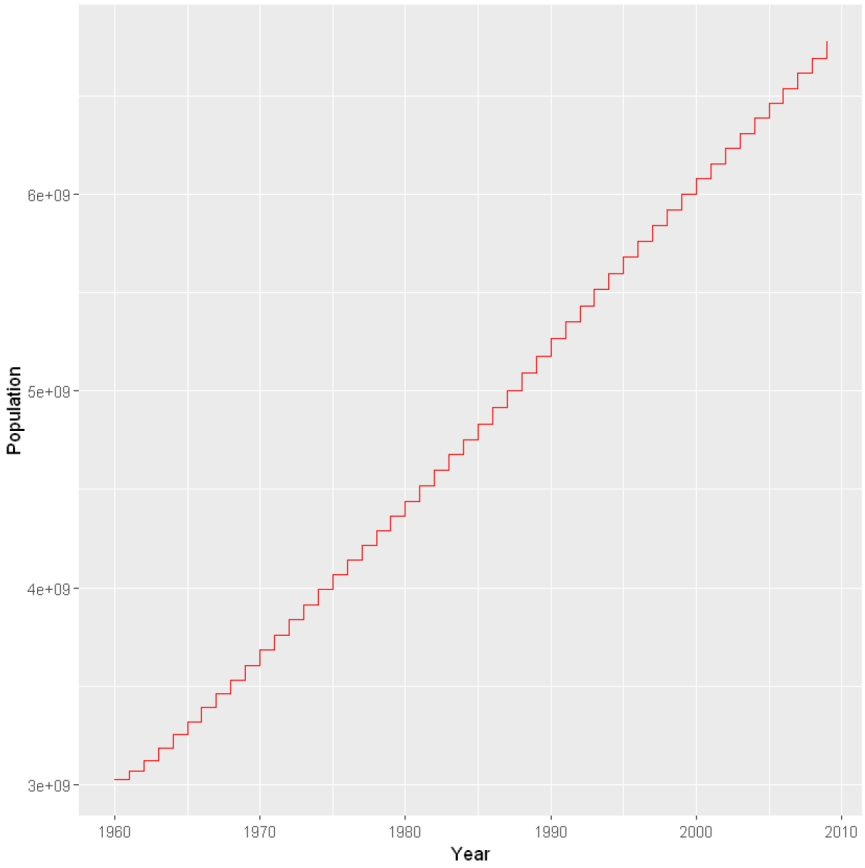
In [5]:

```
# Line Chart
ggplot(data=population, aes(x=Year, y=Population, group=1))+
geom_line(color="red")+
geom_point()
```



In [6]:

```
# Step chart
ggplot(data=population, aes(x=Year, y=Population, group=1))+
geom_step(color="red")
```



Plots using Python

In [7]:

```
# Import the libraries
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
```

In [8]:

```
# Read the file
population = pd.read_excel('world-population.xlsm')
population.head()
```

Out[8]:

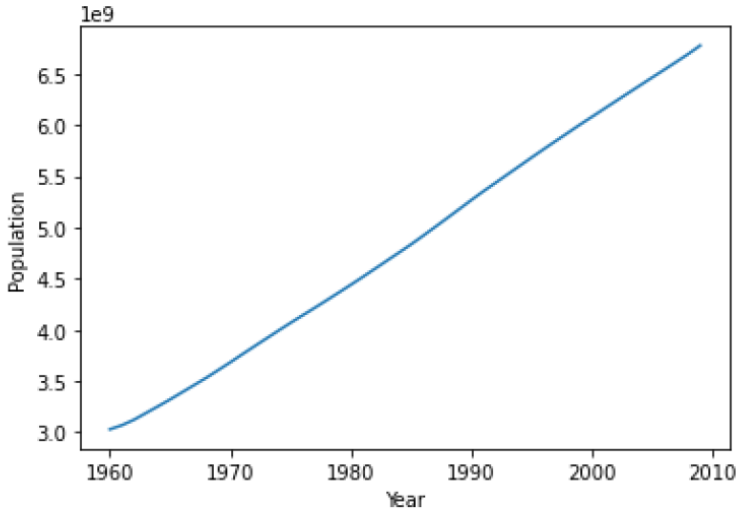
	Year	Population
0	1960	3028654024
1	1961	3068356747
2	1962	3121963107
3	1963	3187471383
4	1964	3253112403

In [9]:

```
# Line plot
sns.lineplot(data=population, x="Year", y="Population")
```

Out[9]:

```
<AxesSubplot:xlabel='Year', ylabel='Population'>
```

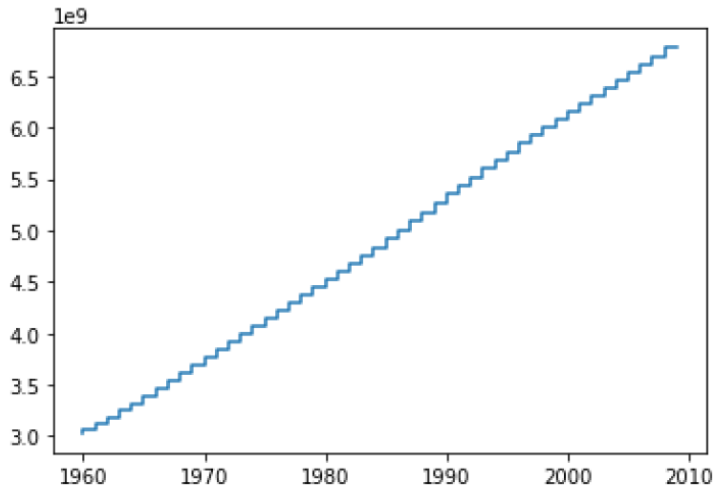


In [10]:

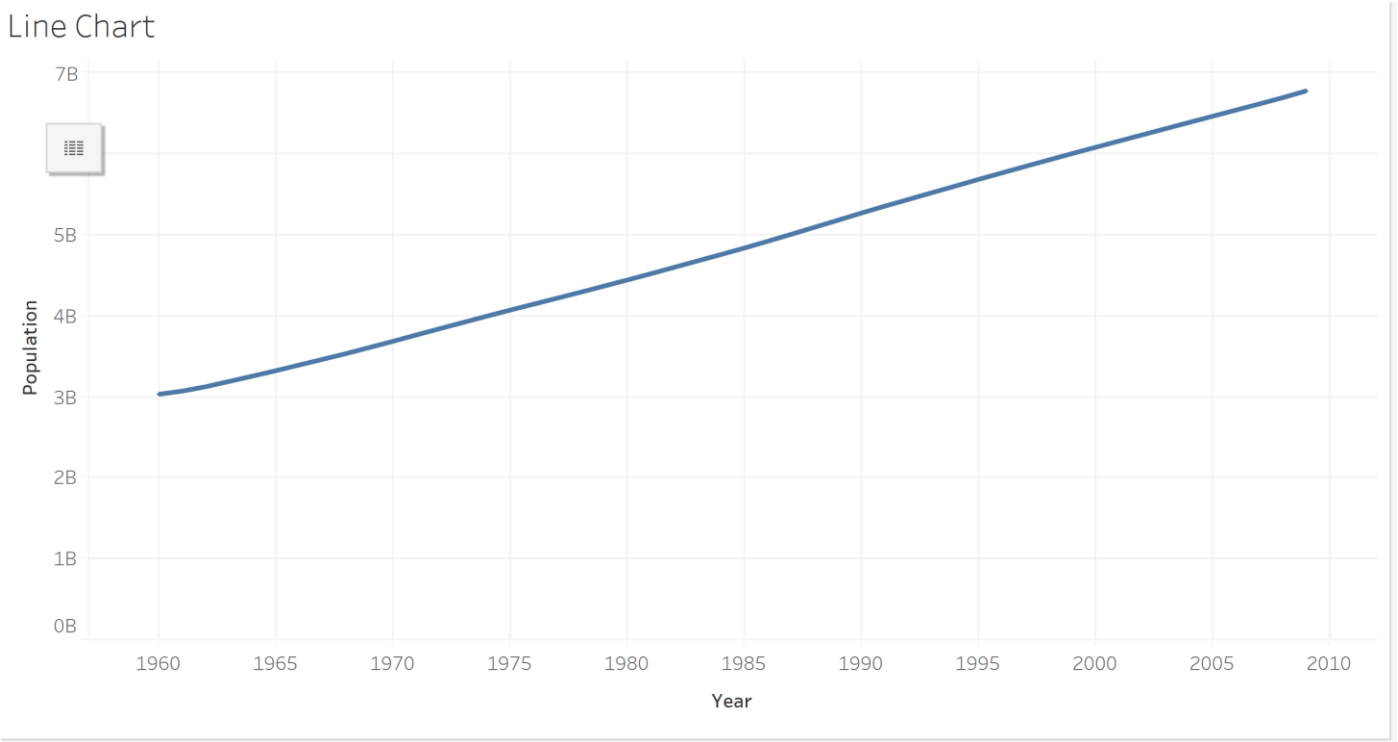
```
# Step chart
plt.step(population['Year'], population['Population'])
```

Out[10]:

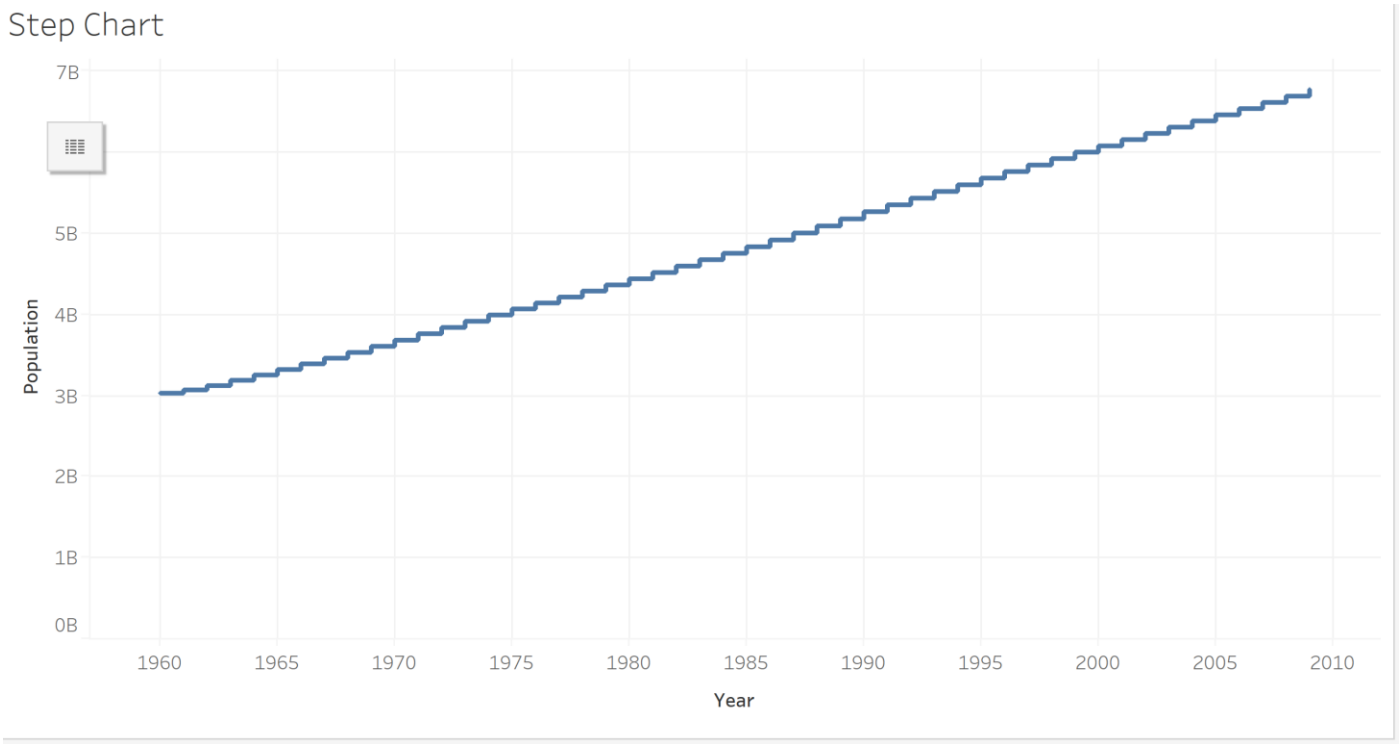
```
[<matplotlib.lines.Line2D at 0x22ad1017c48>]
```



Plots using Tableau



Step Chart


7B
5B
4B
3B
2B
1B
0B
Population
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
Year