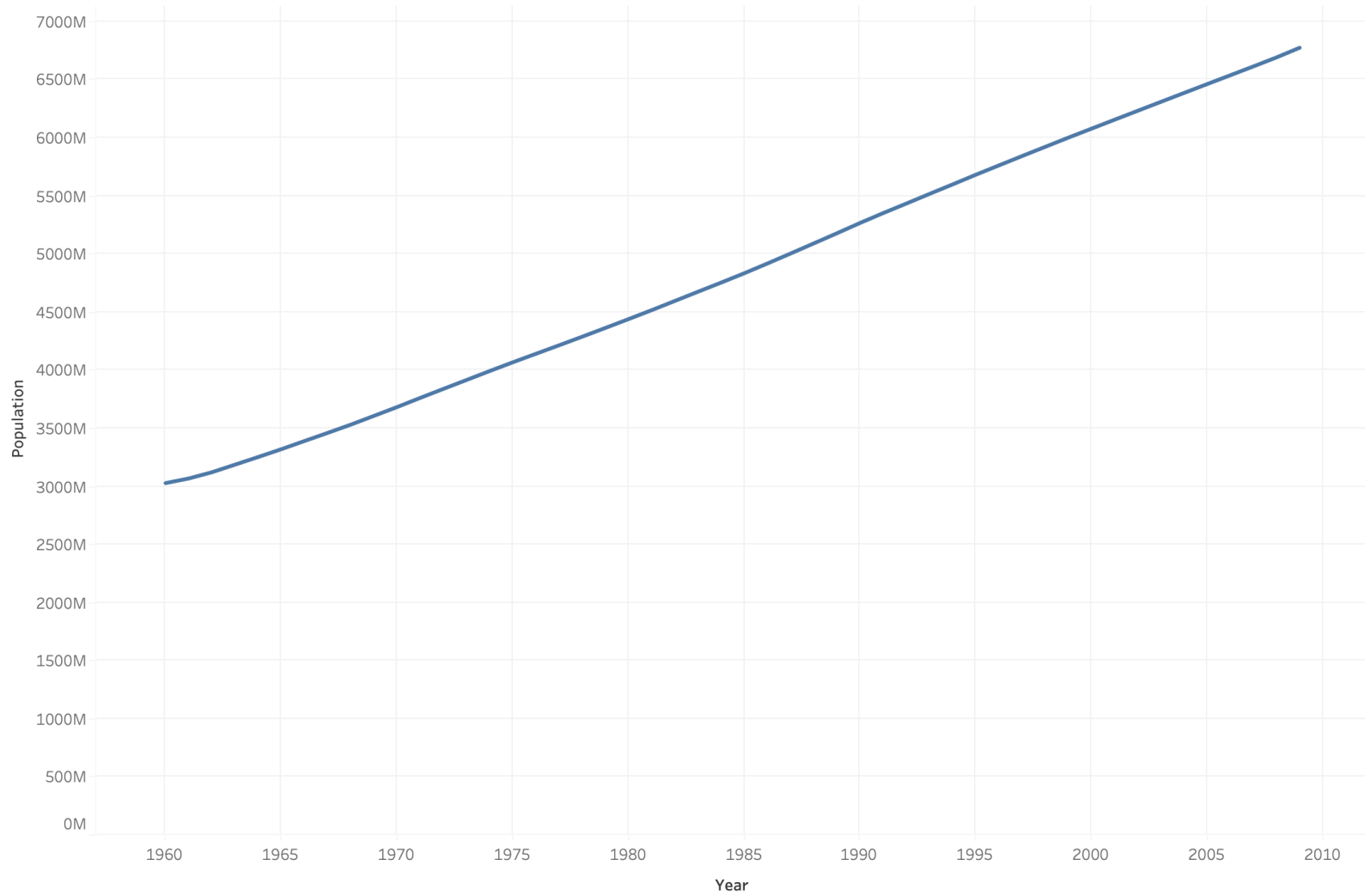


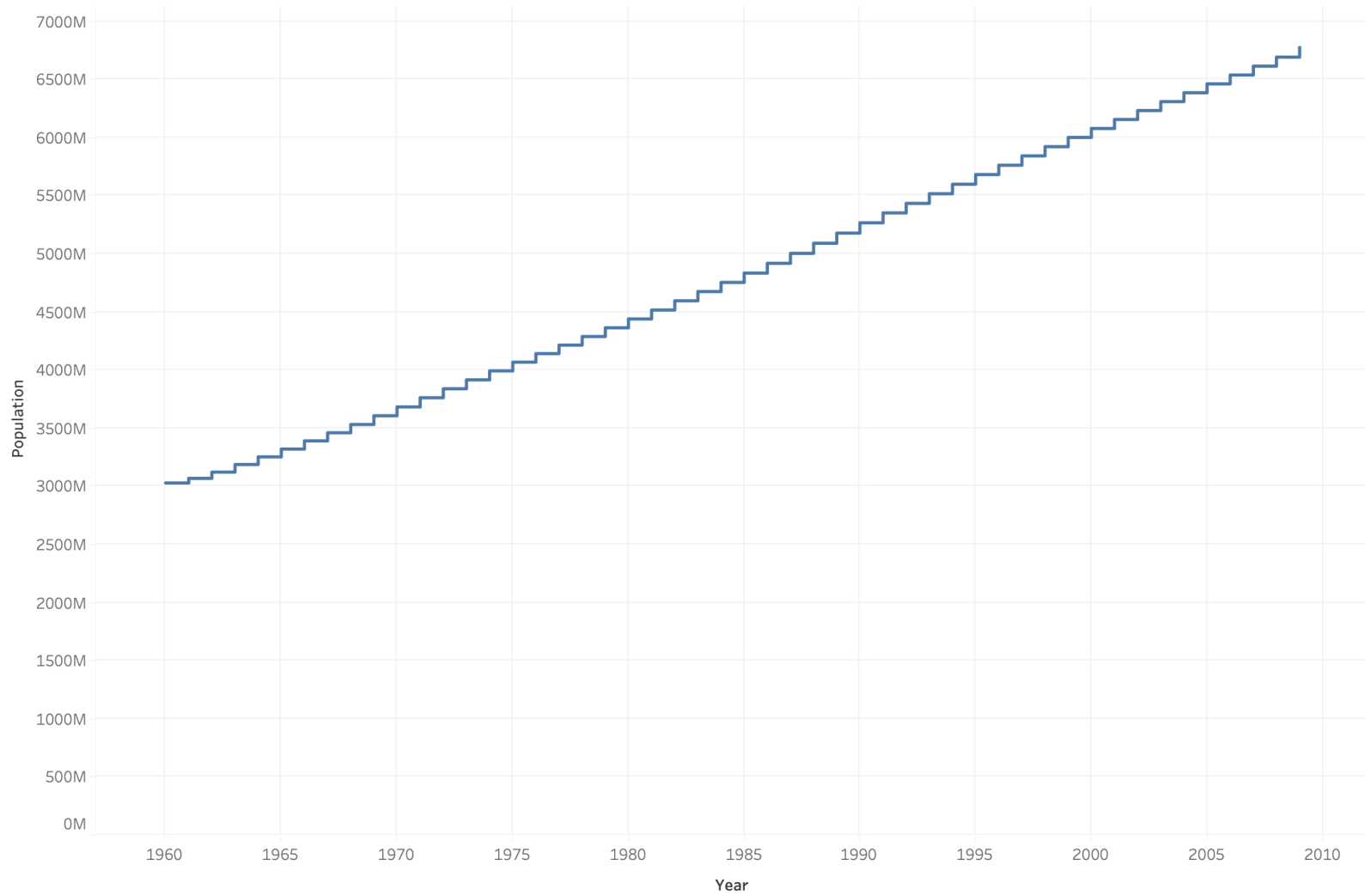
DSC 640
Inman, Gracie
Weeks 3 + 4
Line and Step Charts
01/07/24

Tableau Line Chart



The trend of sum of Population for Year.

Tableau Step Chart



The trend of sum of Population for Year.

DSC 640

Inman, Gracie

Weeks 3 + 4

1/7/24

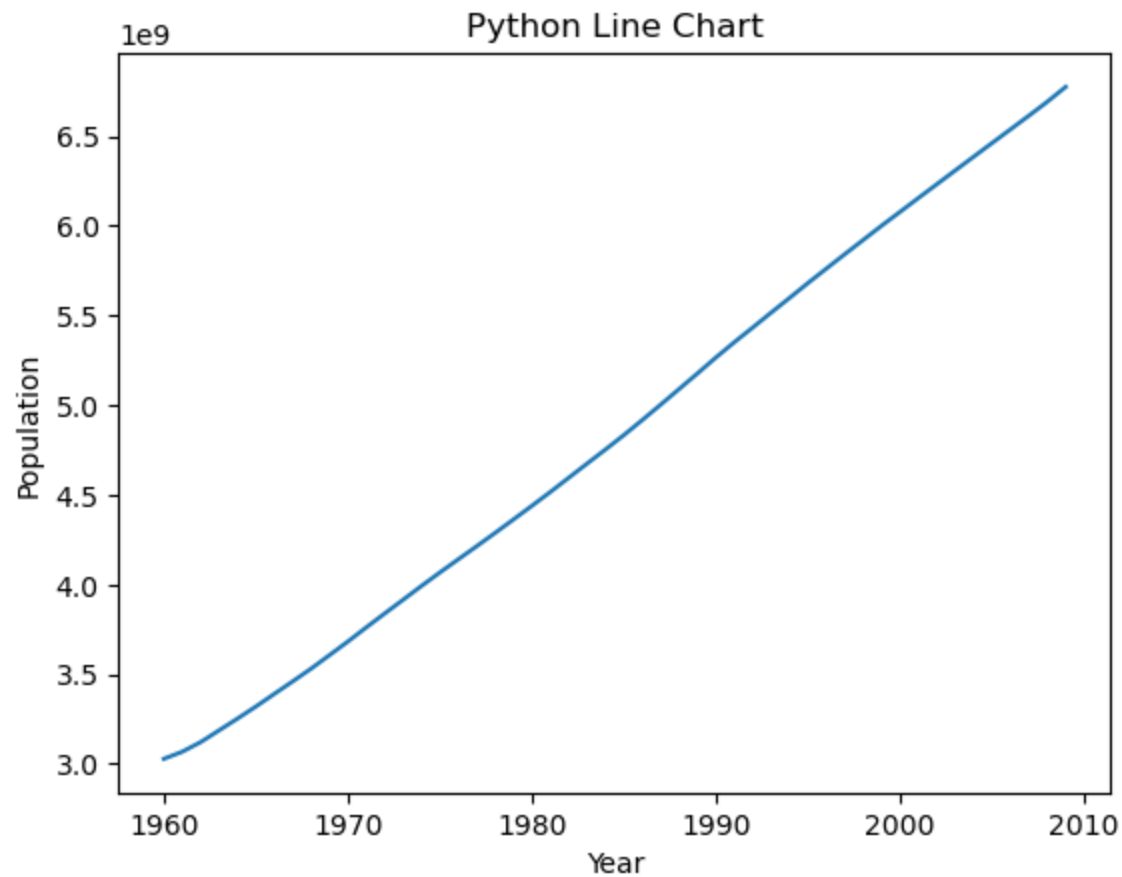
```
In [2]: # Load libraries
import pandas as pd
import matplotlib.pyplot as plt
```

```
In [3]: # Read data
df = pd.read_excel('world-population.xlsm')
df.head()
```

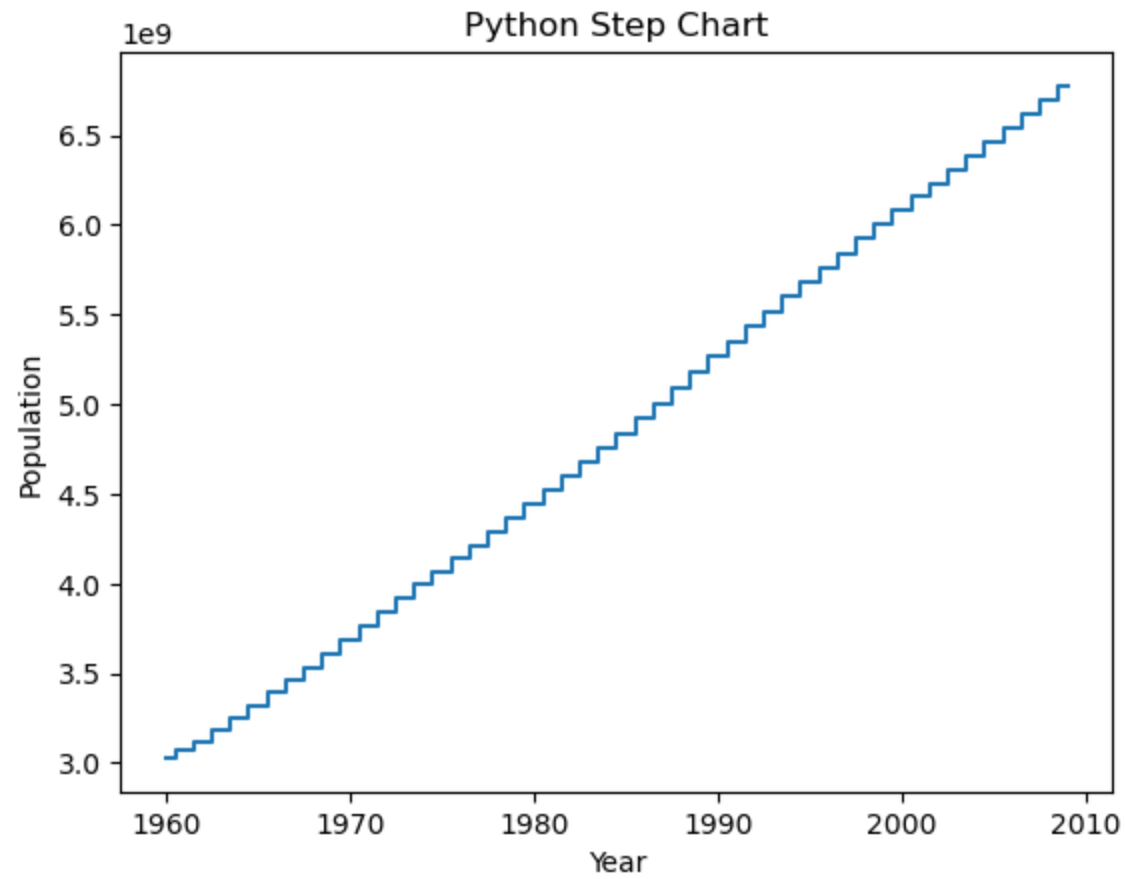
```
Out[3]:
```

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

```
In [4]: # Line Chart
plt.plot(df['Year'], df['Population'])
plt.xlabel('Year')
plt.ylabel('Population')
plt.title('Python Line Chart')
plt.show()
```



```
In [5]: # Step Chart
plt.step(df['Year'], df['Population'], where='mid')
plt.xlabel('Year')
plt.ylabel('Population')
plt.title('Python Step Chart')
plt.show()
```



In []:

R Line and Step Charts (Weeks 3 + 4)

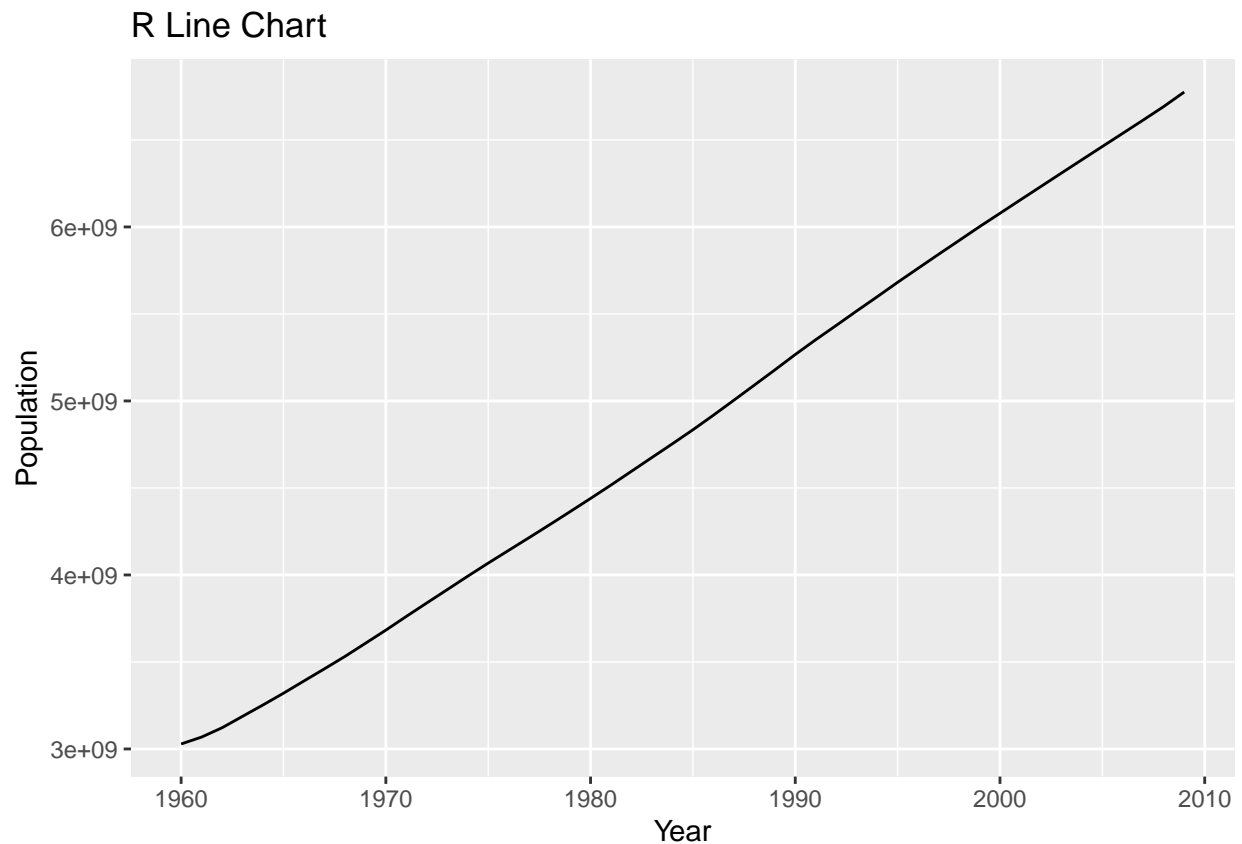
Gracie Inman

2024-01-07

```
# Load library  
library(ggplot2)
```

```
# Load Data  
df <- readxl::read_excel('/Users/gracieinman/Downloads/ex2-2 2/world-population.xlsx')
```

```
# R Line Chart  
ggplot(df, aes(x = Year, y = Population)) +  
  geom_line() +  
  labs(x = 'Year', y = 'Population', title = 'R Line Chart')
```



```
# R Step Chart  
ggplot(df, aes(x = Year, y = Population)) +  
  geom_step() +  
  labs(x = 'Year', y = 'Population', title = ' R Step Chart')
```

