

2.2PythonCharts_AHarvey

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0.0.1 2.2 - Line and Step Charts : Python

```
[1]: # Load libraries. Pandas for loading data and plots. Matplotlib for plots.
      ↪Numpy for the one rounding portion of my pie chart.
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
```

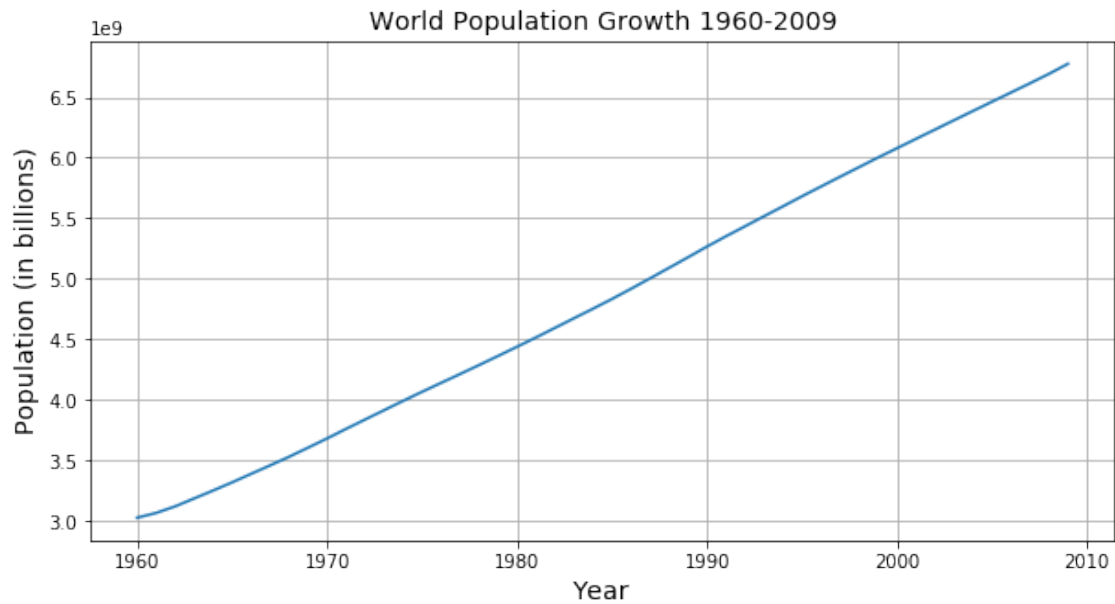
```
[7]: # Import Excel files into dataframe
worldpop = pd.read_excel('world-population.xlsm')
```

```
[8]: worldpop.head()
```

```
[8]:   Year  Population
0  1960  3028654024
1  1961  3068356747
2  1962  3121963107
3  1963  3187471383
4  1964  3253112403
```

```
[12]: # Matplotlib basic plot for line chart
plt.figure(figsize=(10, 5))

plt.plot(worldpop['Year'], worldpop['Population'])
plt.title('World Population Growth 1960-2009', fontsize=14)
plt.xlabel('Year', fontsize=14)
plt.ylabel('Population (in billions)', fontsize=14)
plt.grid(True)
plt.show()
```



```
[13]: # Matplotlib step plot. I really like intuitive nature of matplotlib.  
plt.figure(figsize=(10, 5))  
  
plt.step(worldpop['Year'], worldpop['Population'])  
plt.title('World Population Growth 1960-2009', fontsize=14)  
plt.xlabel('Year', fontsize=14)  
plt.ylabel('Population (in billions)', fontsize=14)  
plt.grid(True)  
plt.show()
```

