Exercise: Weeks 3 & 4 - Charts

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LOADING LIBRARIES.

```
library(ggplot2)
library(ggplot2)
library(readxl)
library(lessR)
library(dplyr)
library(tidyr)
```

SETTING WORKING DIRECTORY/LOADING DATA..

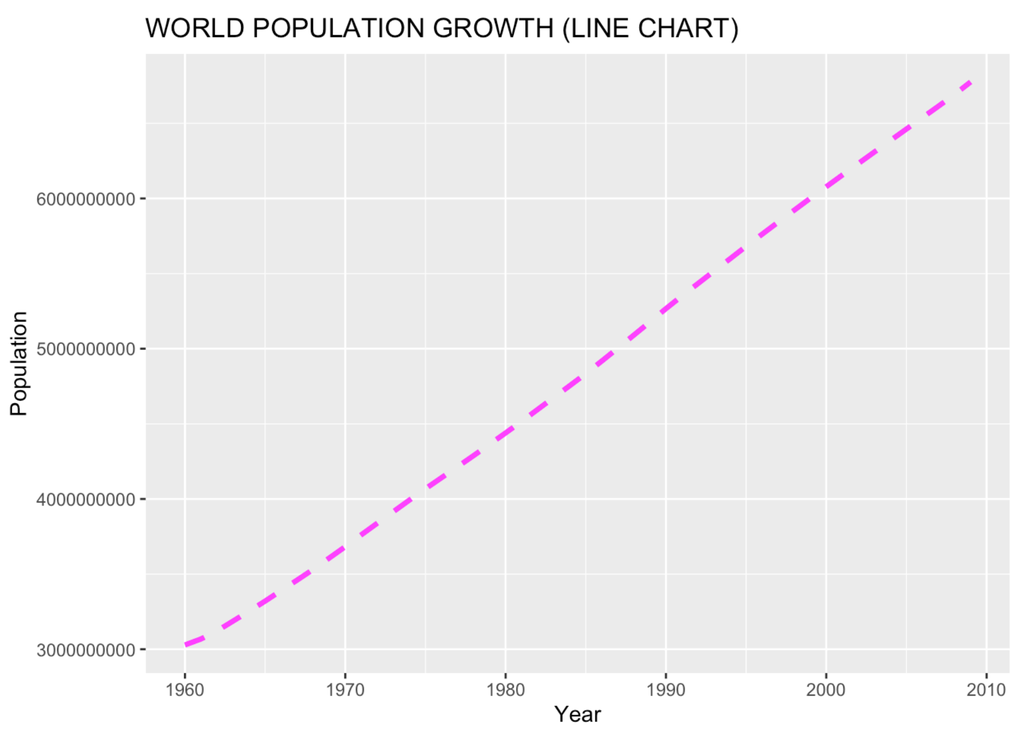
```
setwd("/Users/aaronbrown/Documents/Classwork/DSC 640 - Data Presentation and Visualization/")

population_df <- read_excel("data/world-population.xlsm")
print(population_df)
```

```
## # A tibble: 50 × 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
## # ℹ 40 more rows
```

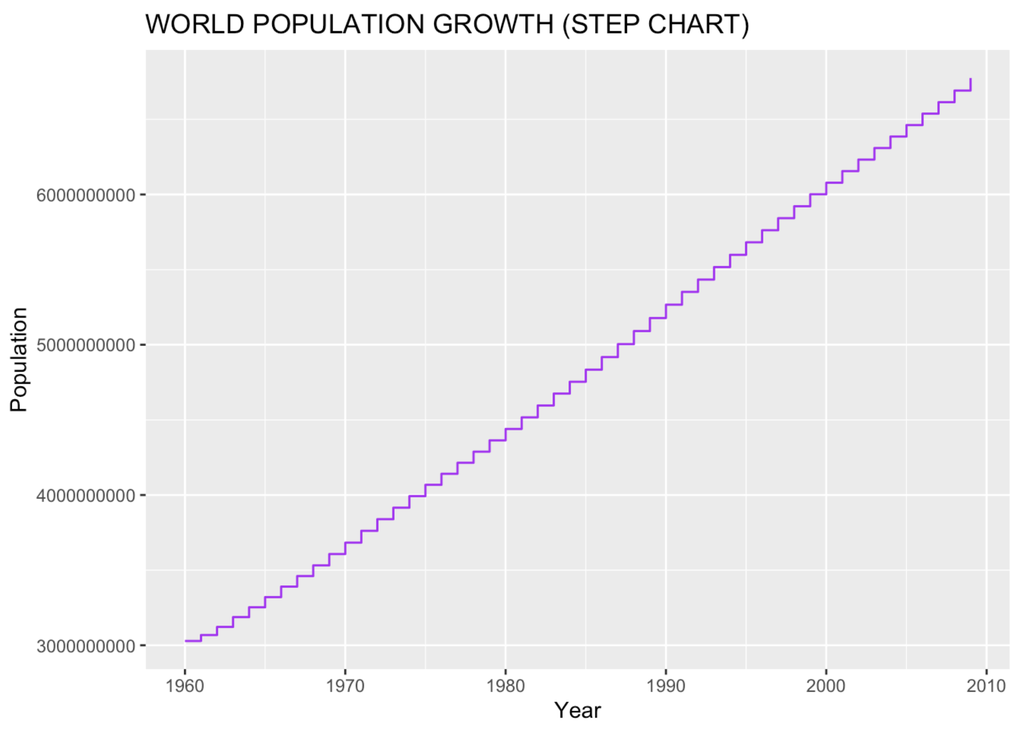
GENERATING LINE CHART

```
ggplot(population_df, aes(x = Year, y = Population)) +
       geom_line(linetype="dashed", size=1.2, color = "magenta") + ggtitle("WORLD POPULATION GROWTH (LINE CHAR
T)")
```



GENERATING STEP CHART

```
ggplot(population_df, aes(x = Year, y = Population)) +
       geom_step(color = "purple") + ggtitle("WORLD POPULATION GROWTH (STEP CHART)")
```



REFERENCES.

ggplot2 title : main, axis and legend titles http://www.sthda.com/english/wiki/ggplot2-title-main-axis-and-legend-titles

Line graph in ggplot2 https://r-charts.com/evolution/line-graph-ggplot2/

ggplot2 line plot : Quick start guide - R software and data visualization http://www.sthda.com/english/wiki/ggplot2-line-plot-quick-start-guide-r-software-and-data-visualization