

# Young\_DSC 640\_Assignment 1.2\_R

Bret Young

9/9/2020

```
# load library needed for Excel files
library(readxl)

# load data
file = 'world-population.xlsm'
data = read_xlsx(file, col_names = TRUE)
```

```
# Print data
head(data)
```

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

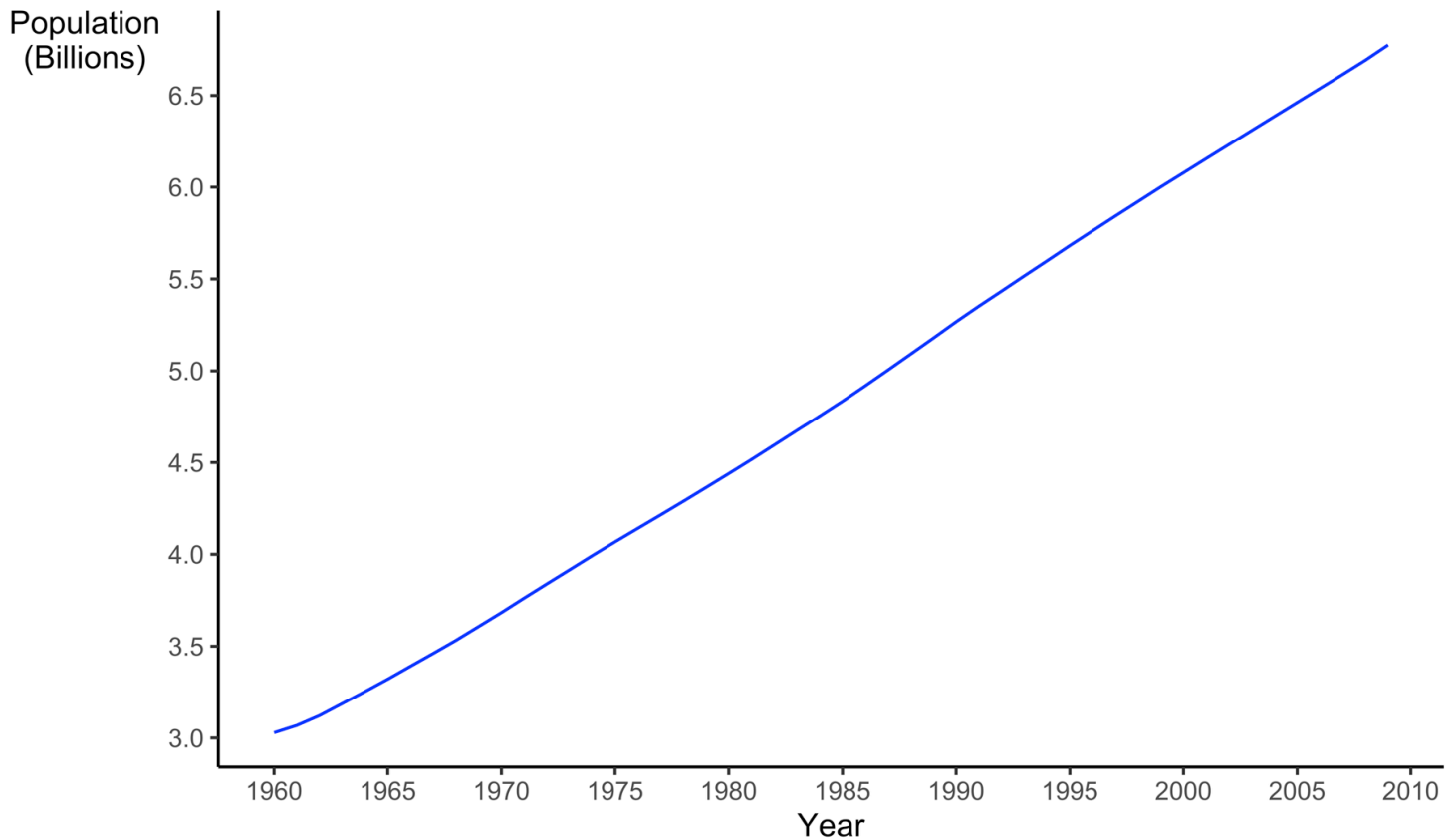
6 rows

```
# Load library for plotting data
library(ggplot2)

# Create Plot with annotations and custom features
ggplot(data, aes(Year, Population/1000000000)) +
  geom_line(color = 'blue') +
  ggtitle("World Population",
    subtitle = "The World's population has more than doubled since 1960\nfrom
about 3 billion to roughly 7 billion in 2010") +
  labs(caption = "Source: Data Collected By Nathan Yau From World Bank",
    y = "Population\n(Billions)") +
  theme_classic() +
  theme(legend.position = "none",
    plot.title = element_text(face = "bold", size = 18),
    plot.subtitle = element_text(color = "light gray"),
    plot.caption = element_text(color = "light gray"),
    axis.title.y = element_text(angle = 0),
    ) +
  scale_x_continuous(breaks = seq(1960, 2010, 5)) +
  scale_y_continuous(breaks = seq(2.5, 7, .5))
```

# World Population

The World's population has more than doubled since 1960 from about 3 billion to roughly 7 billion in 2010

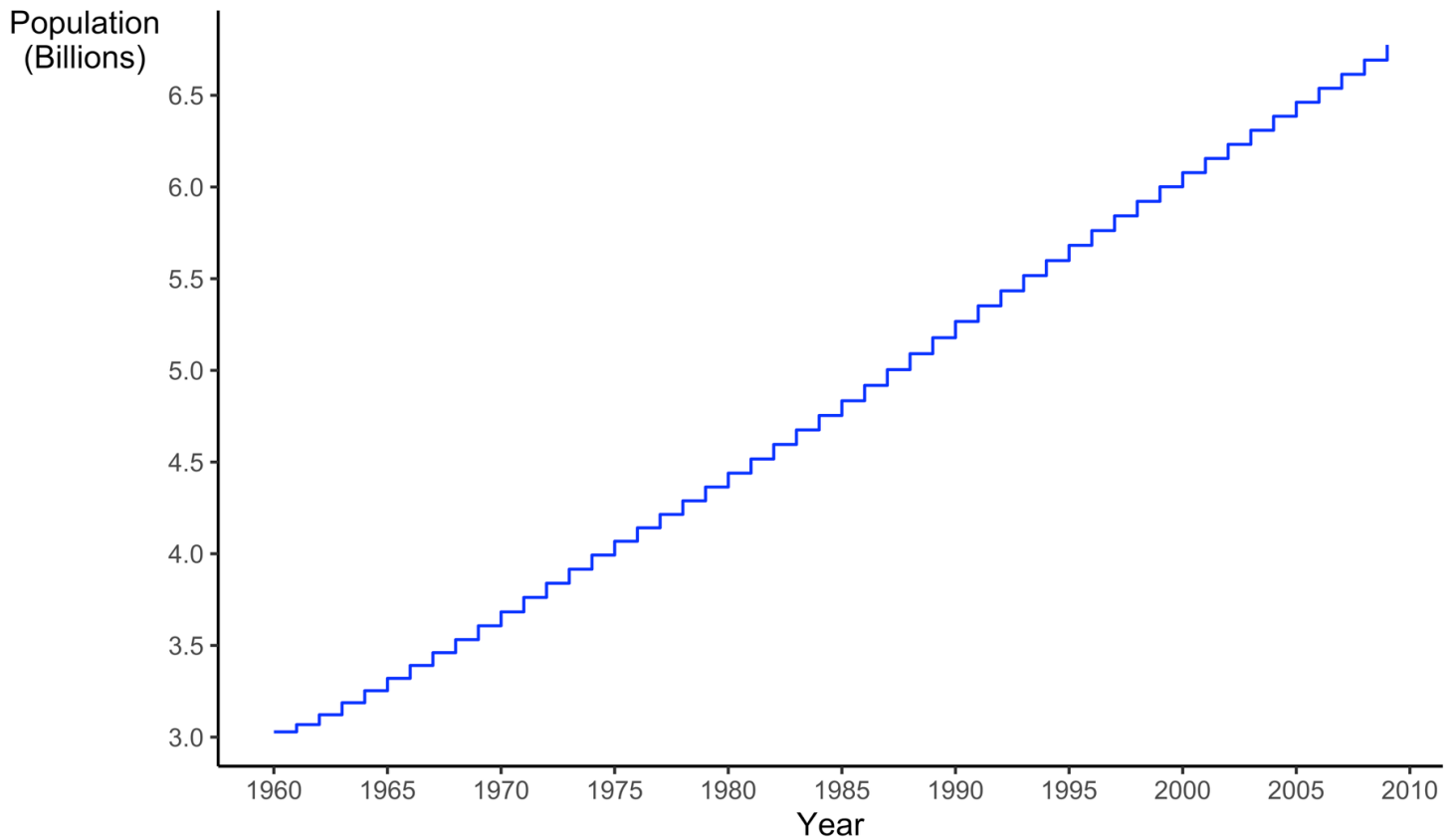


Source: Data Collected By Nathan Yau From World Bank

```
# Create Plot with annotations and custom features
ggplot(data, aes(Year, Population/1000000000)) +
  geom_step(color = 'blue') +
  ggtitle("World Population",
    subtitle = "The World's population has more than doubled since 1960\nfrom
about 3 billion to roughly 7 billion in 2010") +
  labs(caption = "Source: Data Collected By Nathan Yau From World Bank",
    y = "Population\n(Billions)") +
  theme_classic() +
  theme(legend.position = "none",
    plot.title = element_text(face = "bold", size = 18),
    plot.subtitle = element_text(color = "light gray"),
    plot.caption = element_text(color = "light gray"),
    axis.title.y = element_text(angle = 0),
  ) +
  scale_x_continuous(breaks=seq(1960, 2010, 5)) +
  scale_y_continuous(breaks = seq(2.5, 7, .5))
```

# World Population

The World's population has more than doubled since 1960 from about 3 billion to roughly 7 billion in 2010



Source: Data Collected By Nathan Yau From World Bank