

Homework 12

Daniel Vogel

11/6/2020

R Markdown

Documents to include:

- Your Rmd file
- A Word file
- An html file, including any folders with images

```
summary(gapminder)
```

```
##      country      continent      year      lifeExp
## Afghanistan: 12 Africa :624 Min. :1952 Min. :23.60
## Albania : 12 Americas:300 1st Qu.:1966 1st Qu.:48.20
## Algeria : 12 Asia :396 Median :1980 Median :60.71
## Angola : 12 Europe :360 Mean :1980 Mean :59.47
## Argentina : 12 Oceania : 24 3rd Qu.:1993 3rd Qu.:70.85
## Australia : 12 Max. :2007 Max. :82.60
## (Other) :1632
##      pop      gdpPercap
## Min. :6.001e+04 Min. : 241.2
## 1st Qu.:2.794e+06 1st Qu.: 1202.1
## Median :7.024e+06 Median : 3531.8
## Mean :2.960e+07 Mean : 7215.3
## 3rd Qu.:1.959e+07 3rd Qu.: 9325.5
## Max. :1.319e+09 Max. :113523.1
##
```

```
print('Median Life Expectancy By Continent')
```

```
## [1] "Median Life Expectancy By Continent"
```

```
gapminder %>%
  filter(year == 2007) %>%
  group_by(continent) %>%
  summarise(lifeExp = median(lifeExp), .groups='drop')
```

```
## # A tibble: 5 x 2
##   continent lifeExp
##   <fct>      <dbl>
## 1 Africa      52.9
## 2 Americas    72.9
## 3 Asia        72.4
## 4 Europe      78.6
## 5 Oceania     80.7
```

Plots of Gapminder Data

You can also embed plots, for example:

```
ggplot(gapminder, aes(x = continent, y = lifeExp)) +
  geom_boxplot(outlier.colour = "hotpink") +
  labs(title="Plot of Life Expectancy by Continent",
       x = "Continent", y = "Life Expectancy")+
  geom_jitter(position = position_jitter(width = 0.1, height = 0), alpha = 1/4)
```

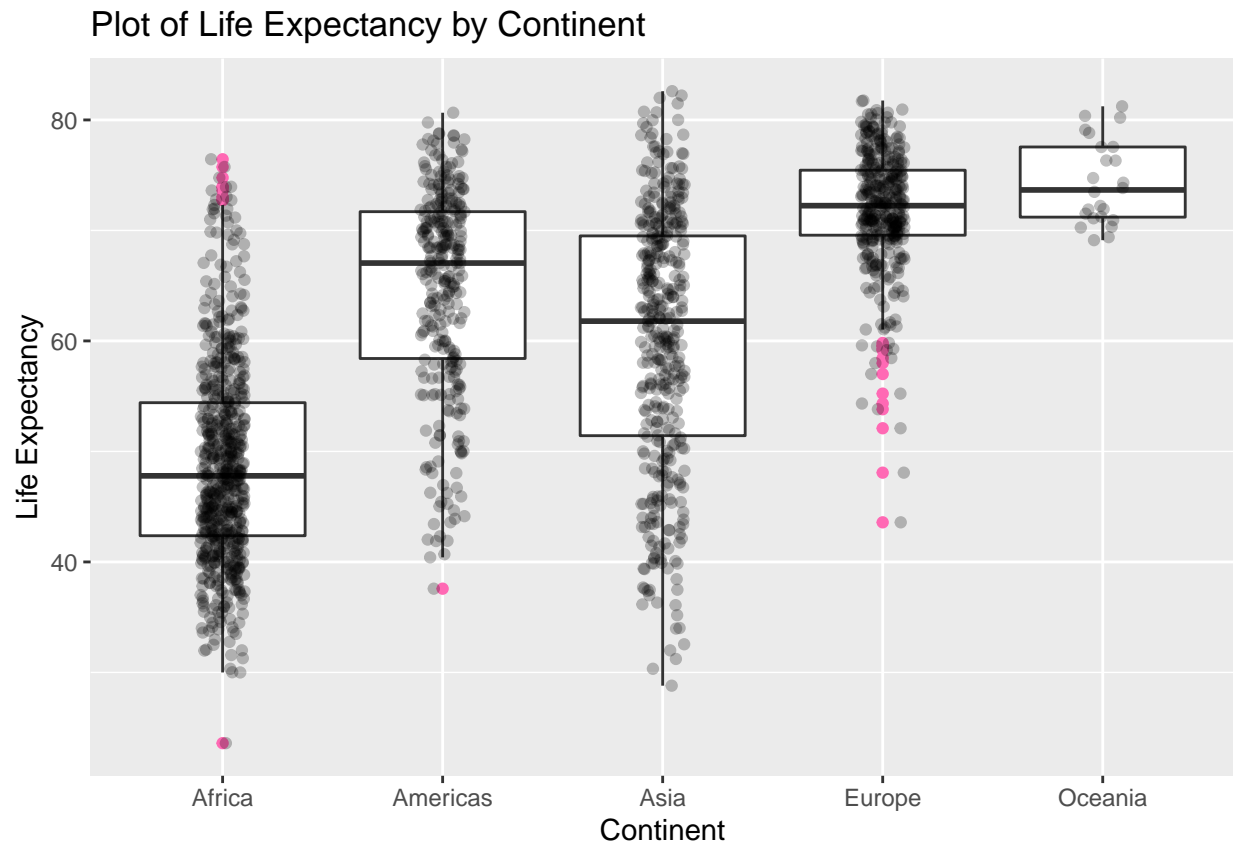
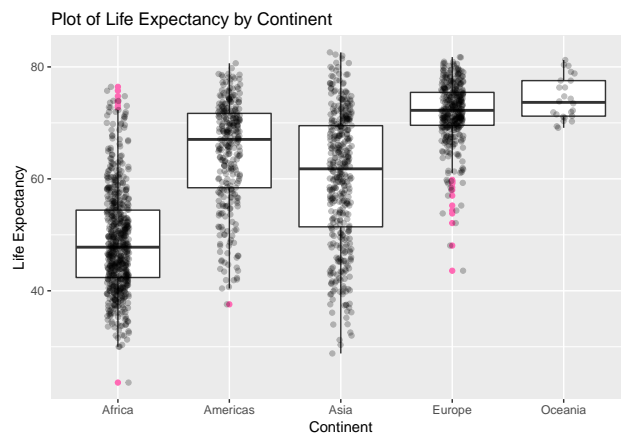


Figure 1: GGPLOT SAMPLE

Same plot, different dimensions. 50% smaller.



\begin{figure}

\caption{50% size GGPLOT SAMPLE}

\end{figure}