

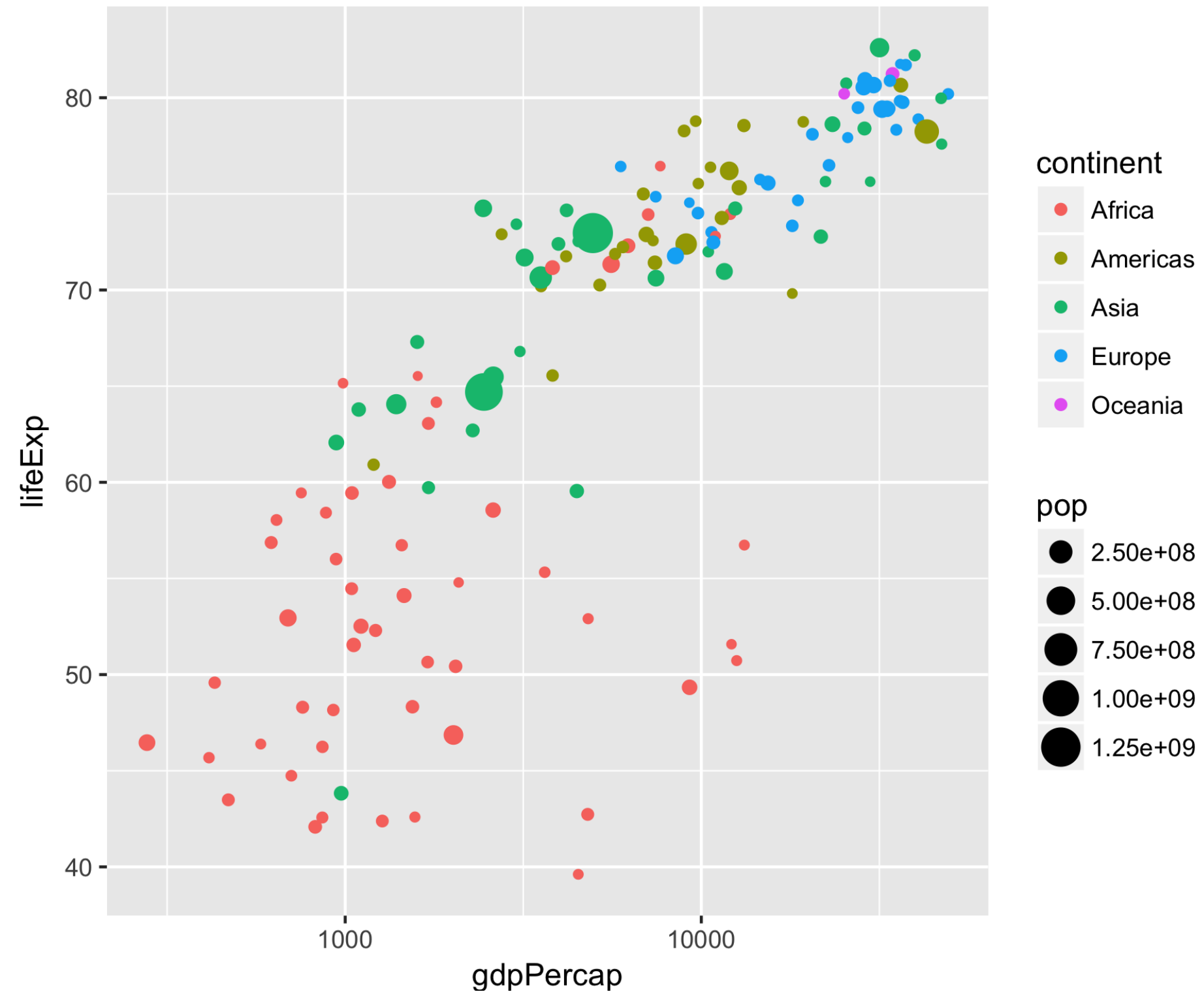
# Line plots

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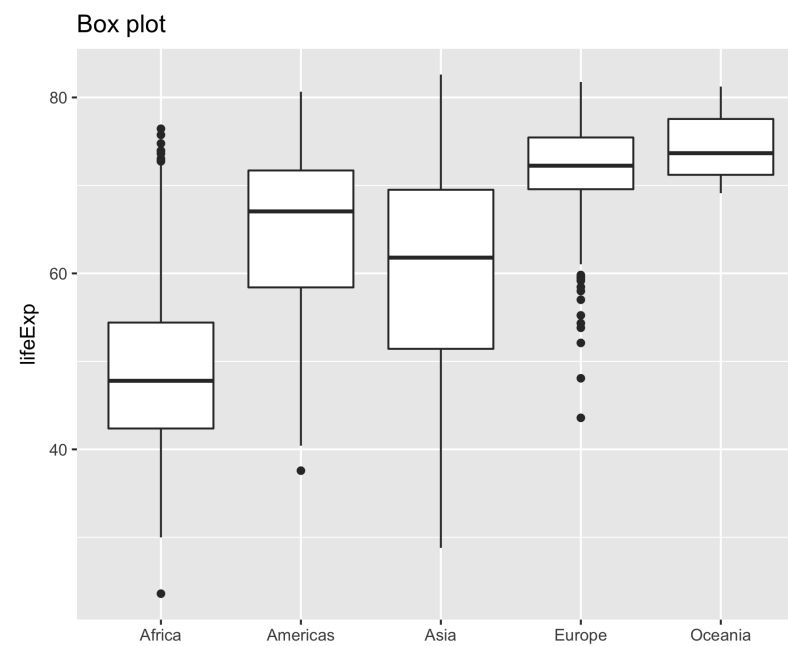
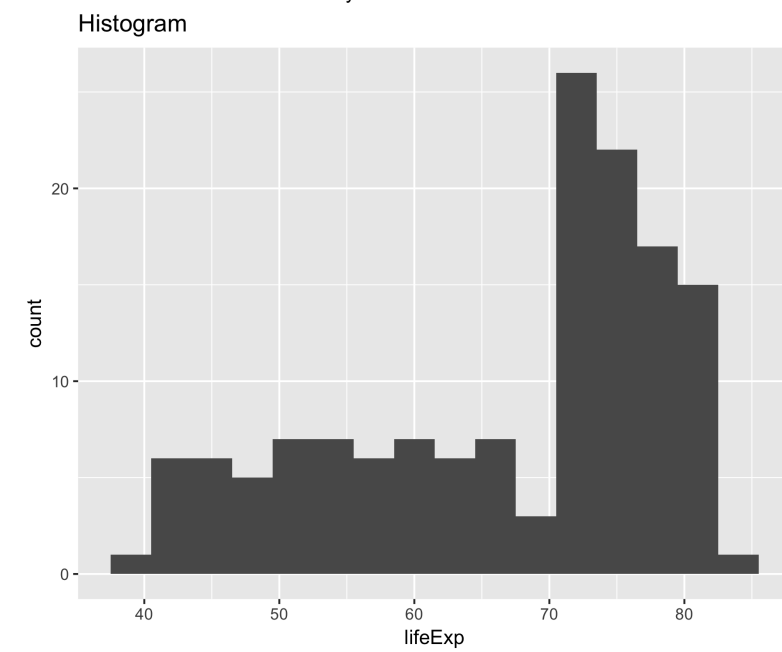
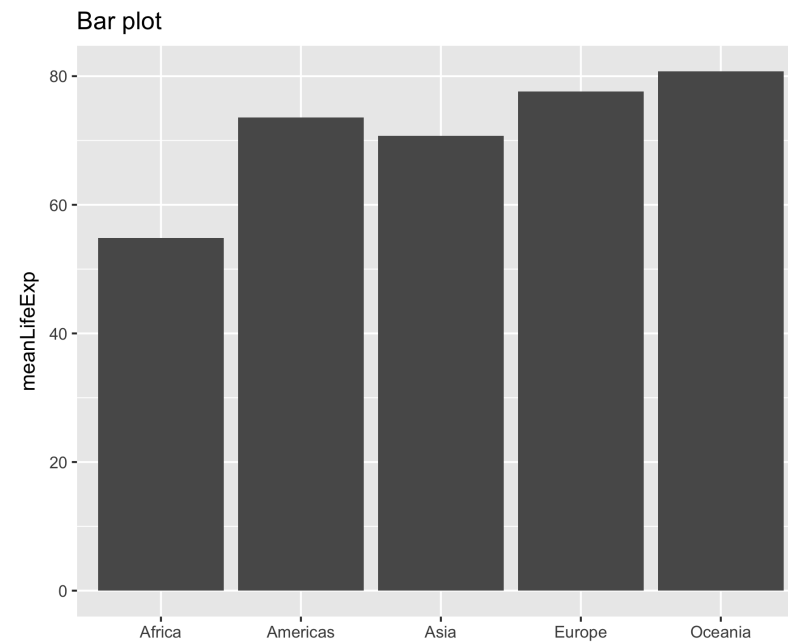
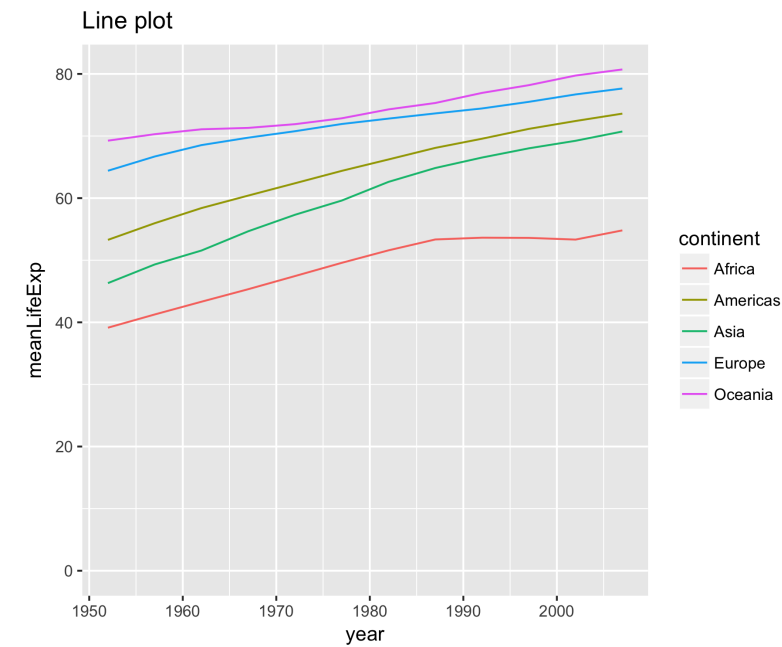


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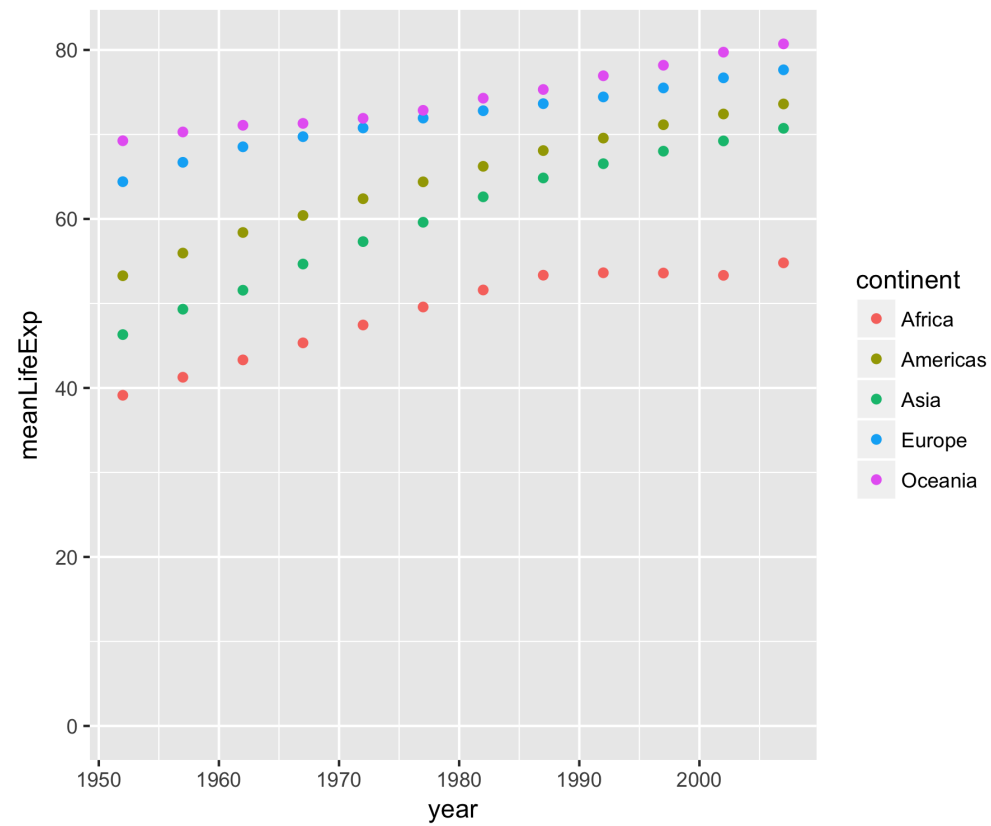
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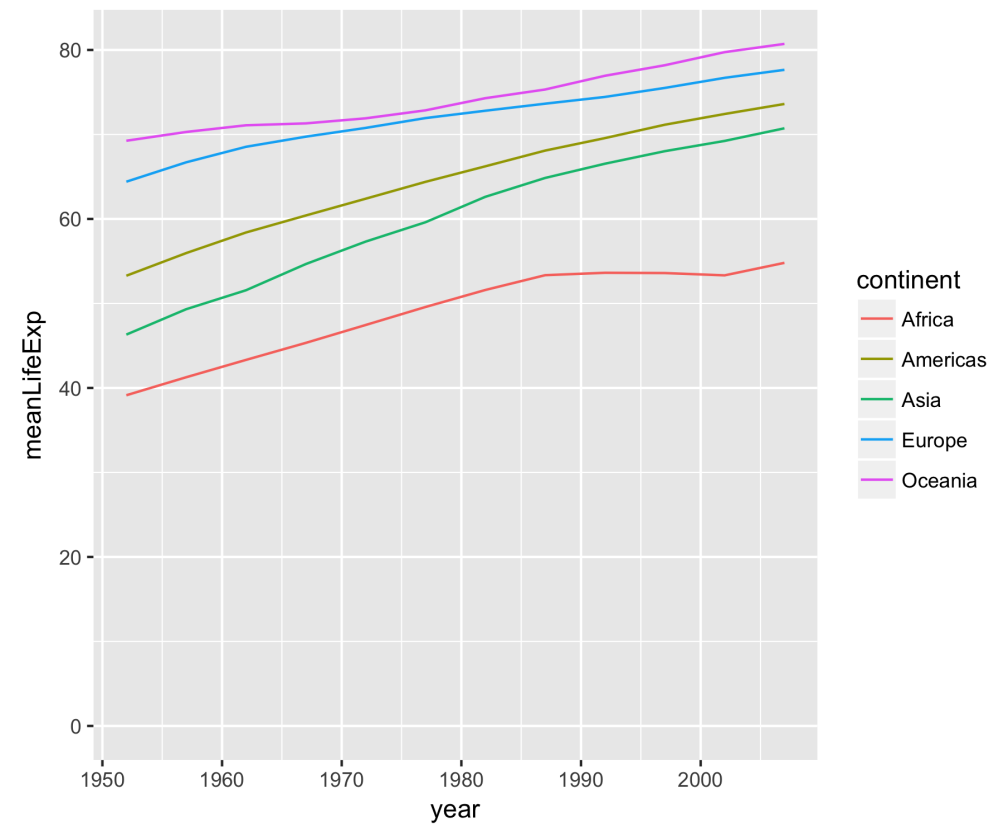
# Types of plots



# Scatter vs line plot

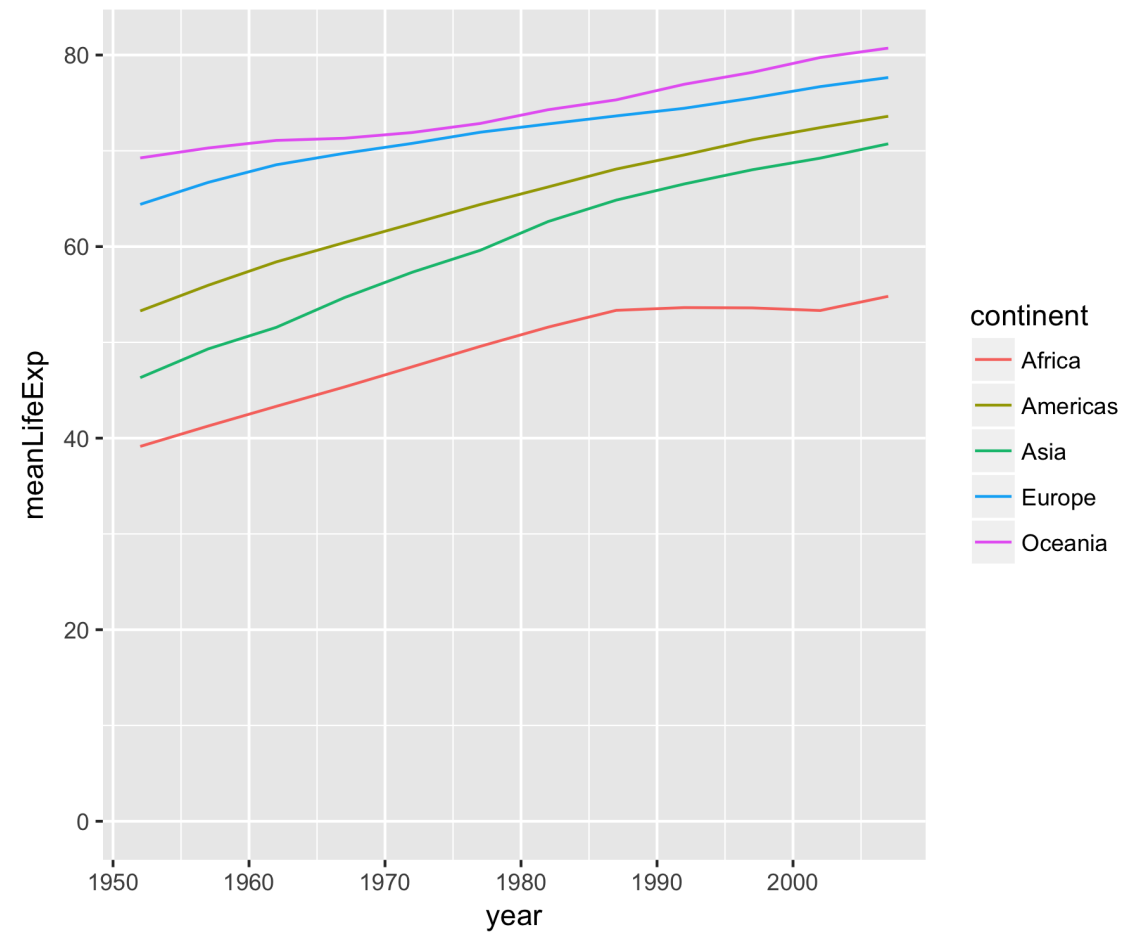


`geom_point()`



`geom_line()`

# Line plot



```
ggplot(year_continent, aes(x = year, y = meanLifeExp, color = continent)) +  
  geom_line() +  
  expand_limits(y = 0)
```

# Bar plots

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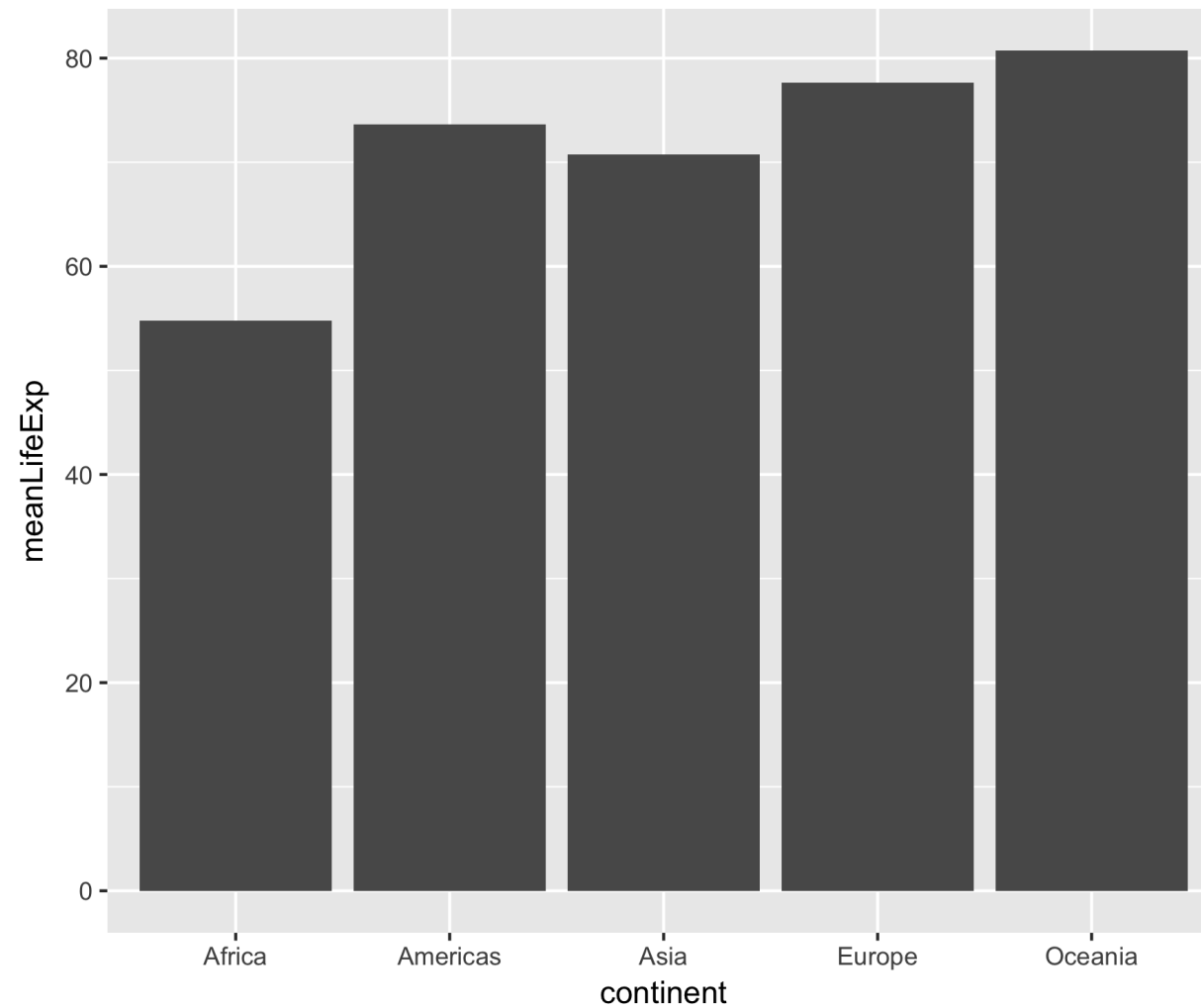
# Summarizing by continent

```
by_continent <- gapminder %>%  
  filter(year == 2007) %>%  
  group_by(continent) %>%  
  summarize(meanLifeExp = mean(lifeExp))
```

```
by_continent
```

```
# A tibble: 5 x 2  
  continent meanLifeExp  
  <fctr>      <dbl>  
1 Africa    54.80604  
2 Americas  73.60812  
3 Asia      70.72848  
4 Europe    77.64860  
5 Oceania   80.71950
```

# Bar plot



```
ggplot(by_continent, aes(x = continent, y = meanLifeExp)) +  
  geom_col()
```



# Histograms

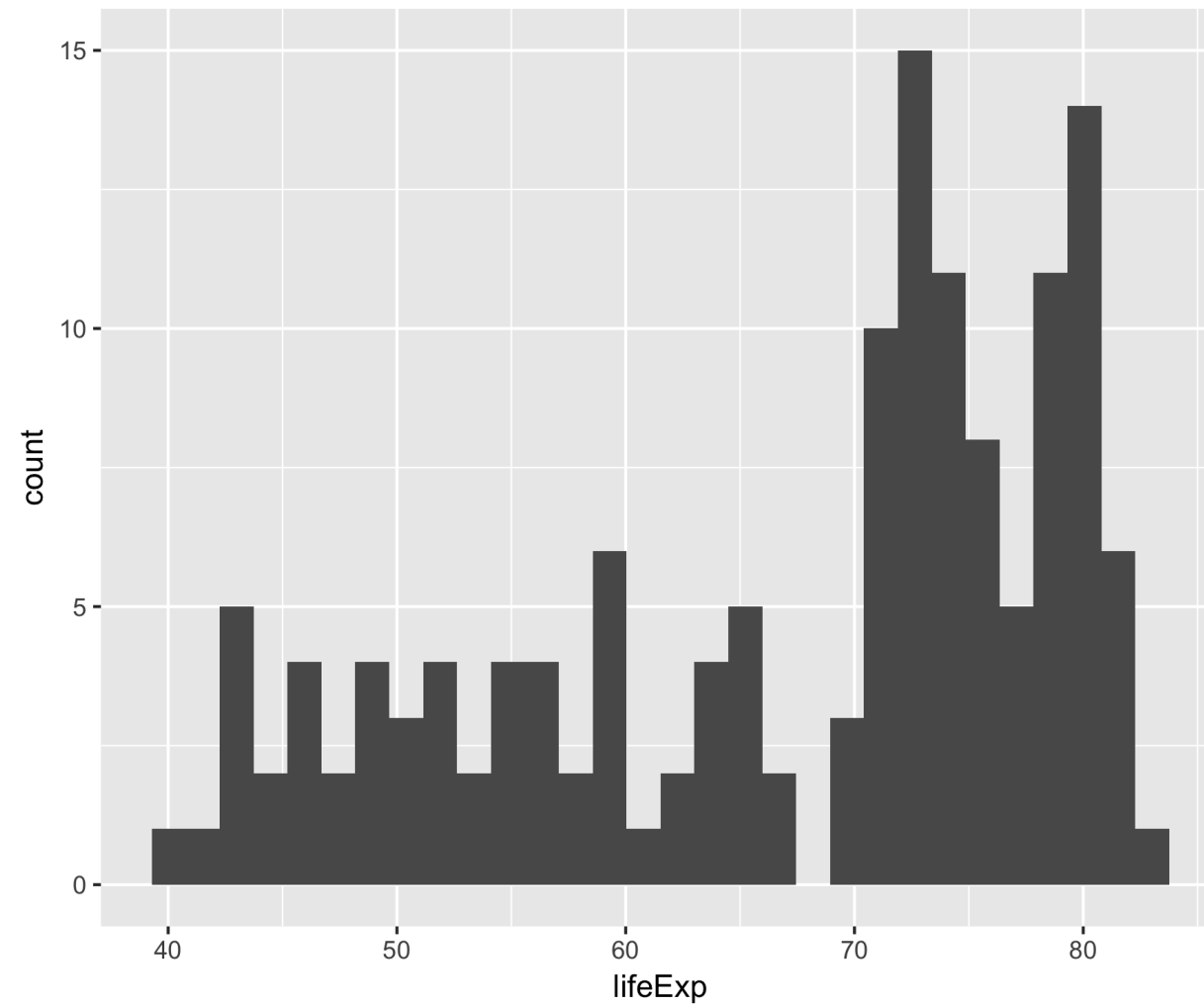
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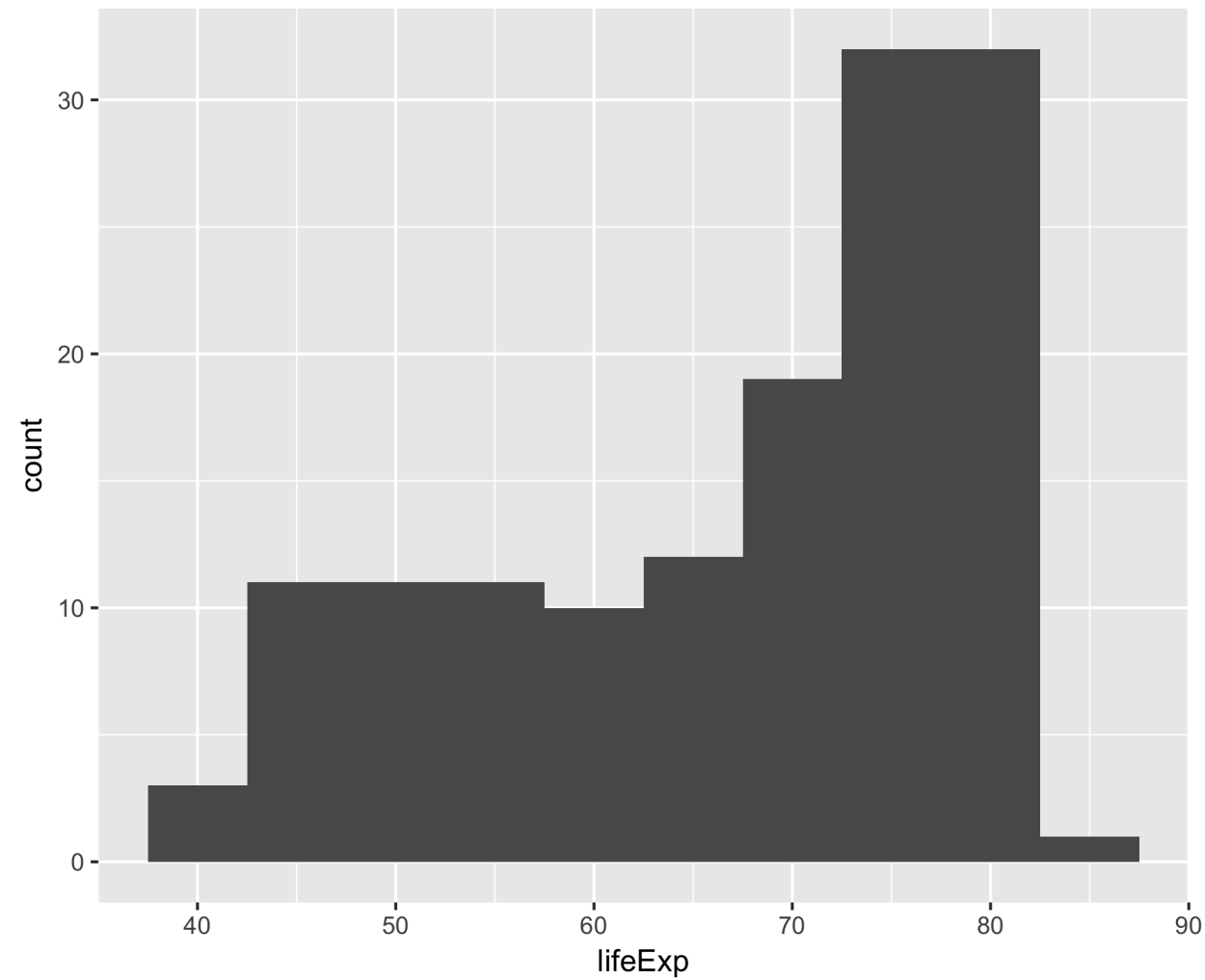
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# Histogram



```
ggplot(gapminder_2007, aes(x = lifeExp)) +  
  geom_histogram()
```

# Adjusting bin width



```
ggplot(gapminder_2007, aes(x = lifeExp)) +  
  geom_histogram(binwidth = 5)
```

# Log x-axis

```
scale_x_log10()
```

# Box plots

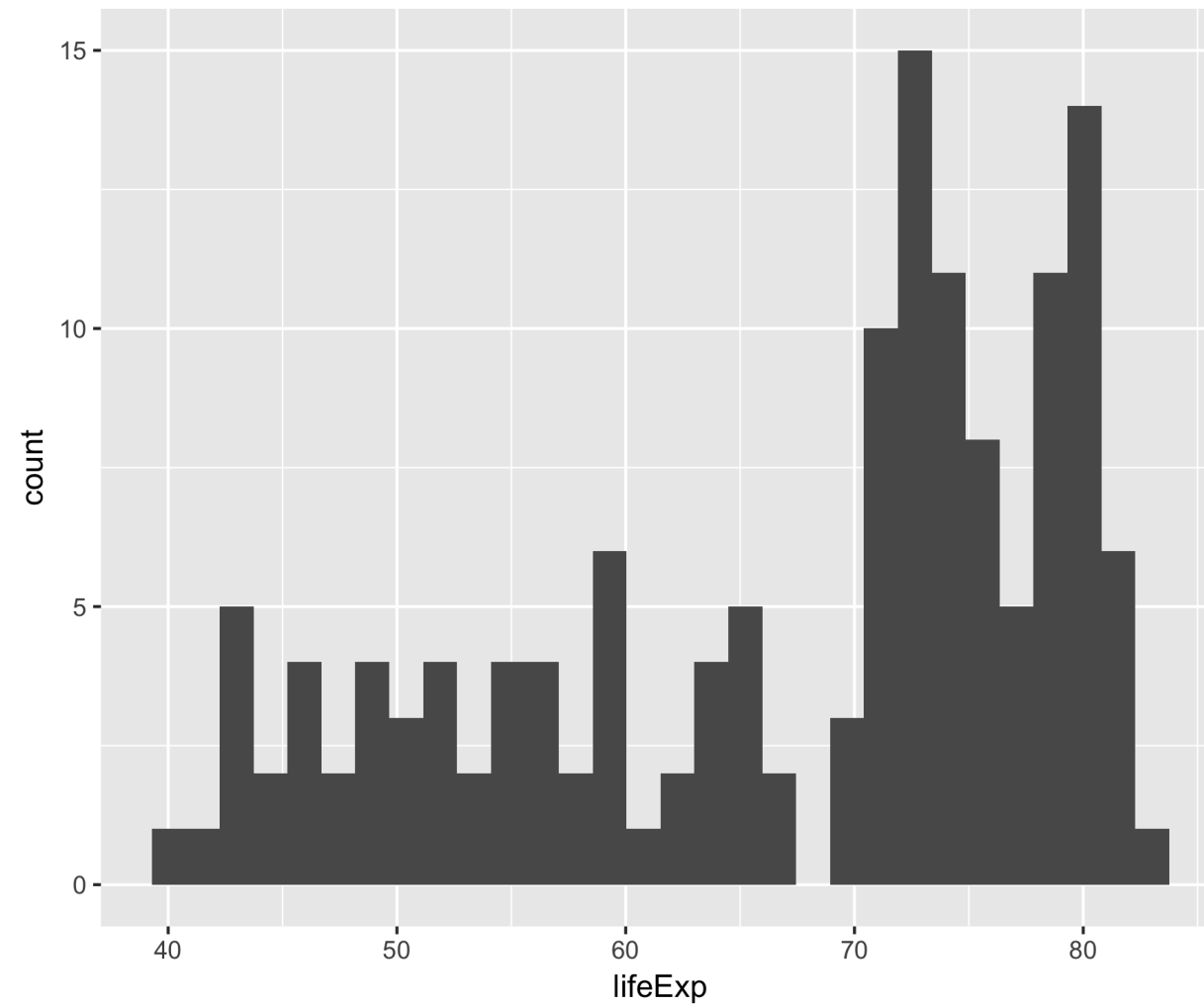
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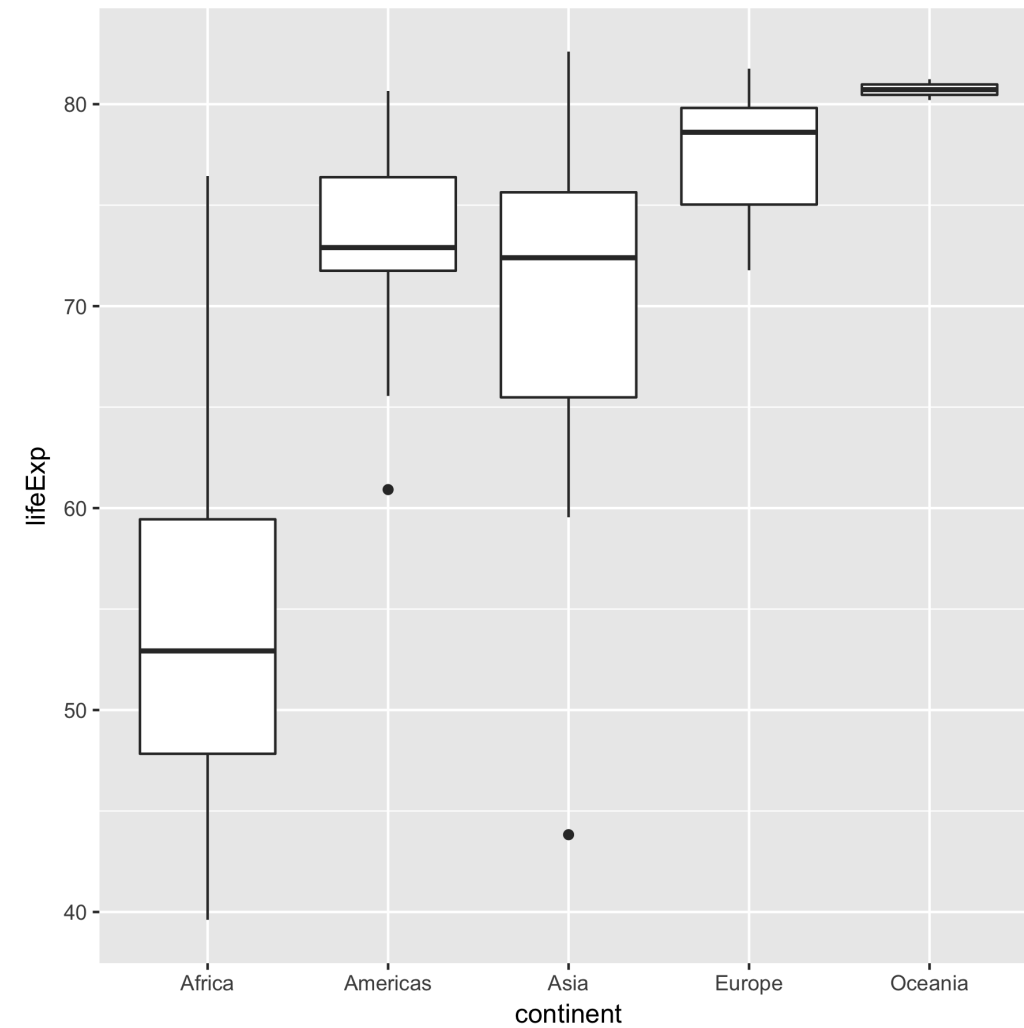
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# Histograms



```
ggplot(gapminder_2007, aes(x = lifeExp)) +  
  geom_histogram()
```

# Box plots



```
ggplot(gapminder_2007, aes(x = continent, y = lifeExp)) +  
  geom_boxplot()
```

# Histogram vs box plot

