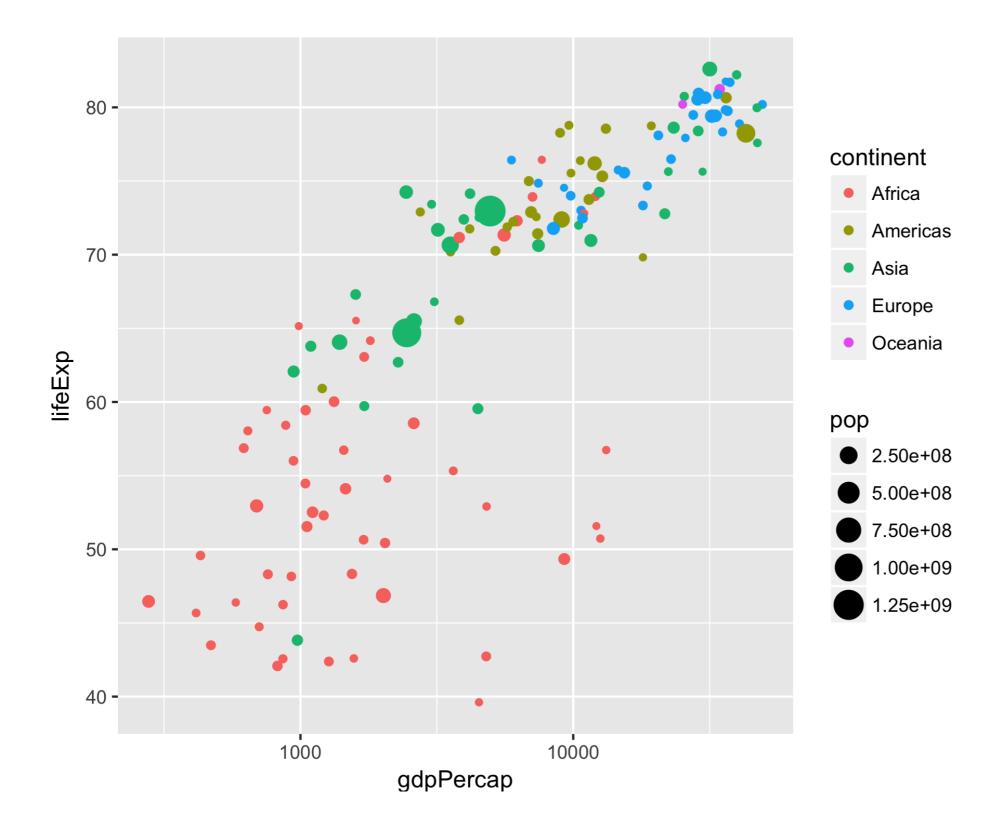
# Line plots

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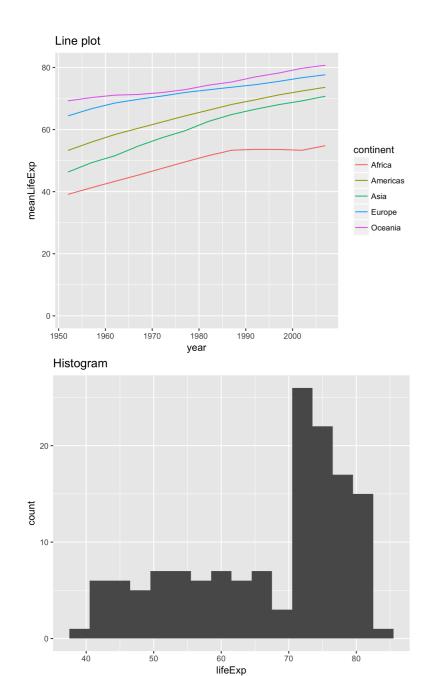


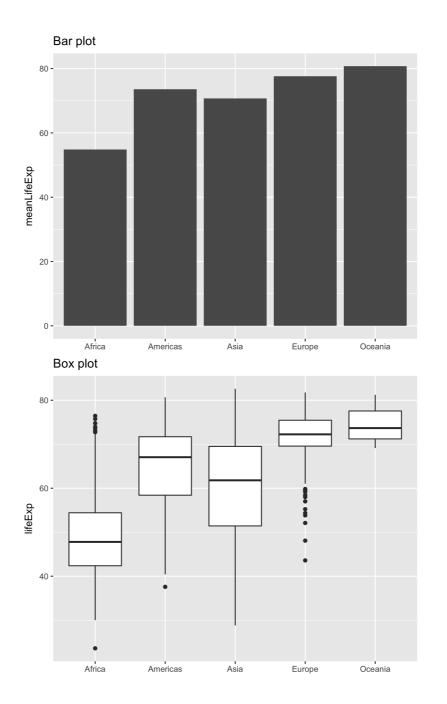
David RobinsonChief Data Scientist, DataCamp





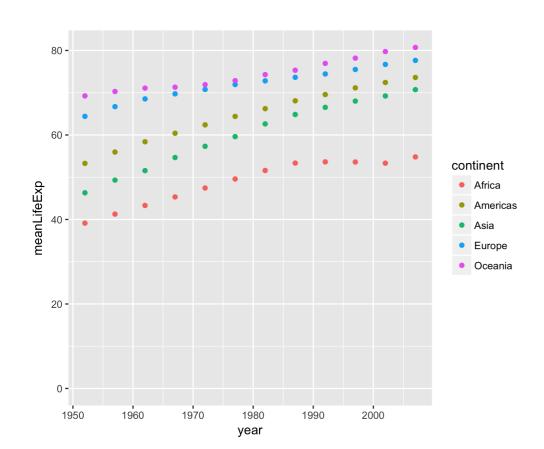
## Types of plots

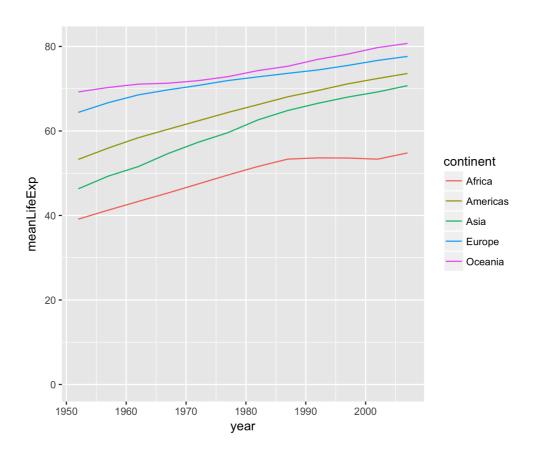






#### Scatter vs line plot

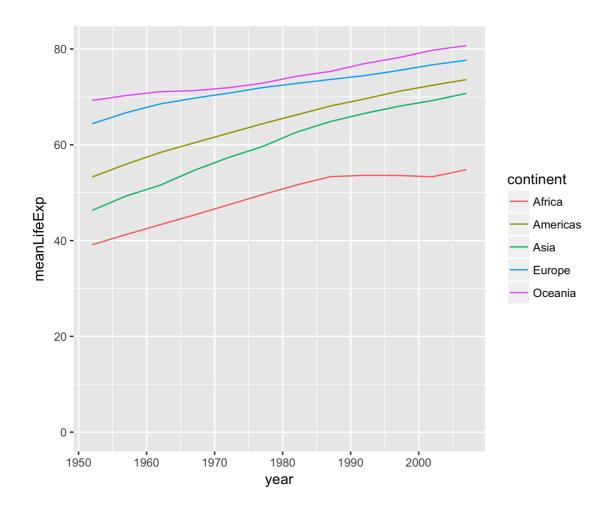




geom\_point()

geom\_line()

## Line plot



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

# Let's practice!

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# **Bar plots**

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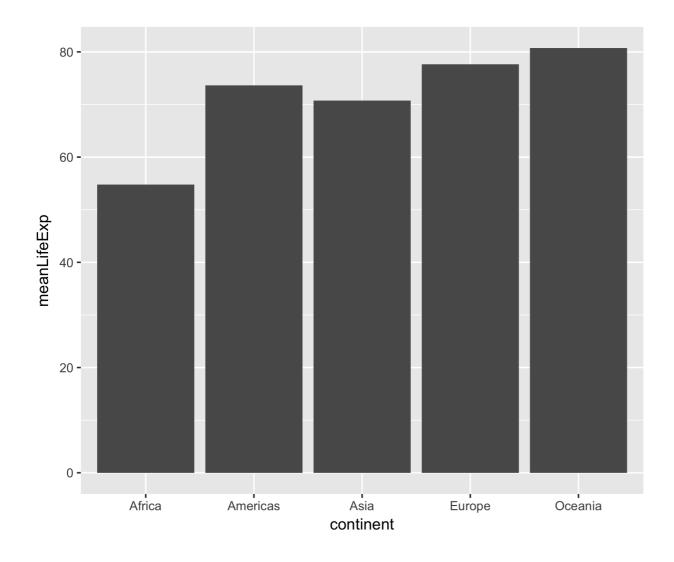
#### Summarizing by continent

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

by_continent
```



## **Bar plot**



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



# Let's practice!

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# Histograms

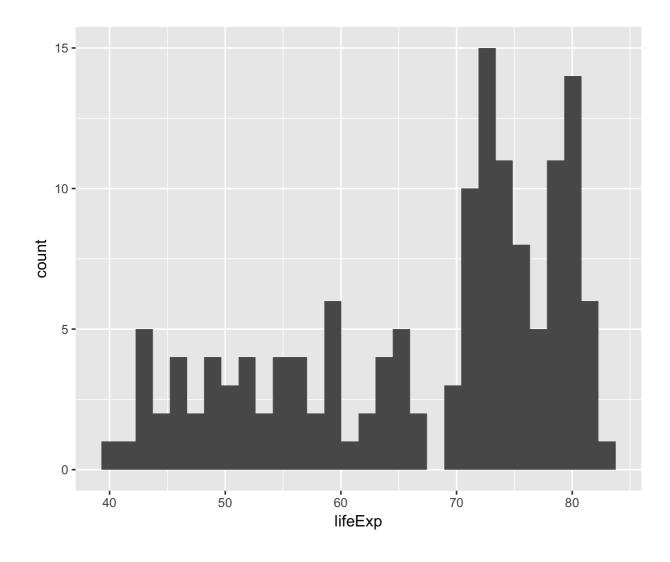
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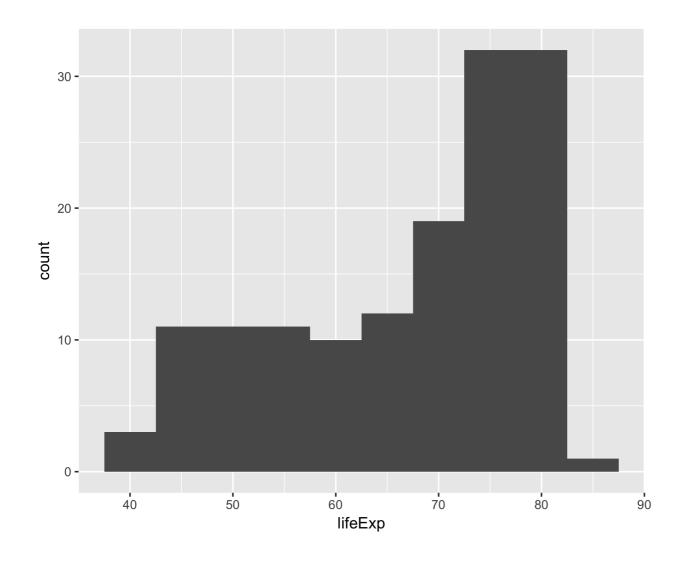
## Histogram



```
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()

# Let's practice!

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# **Box plots**

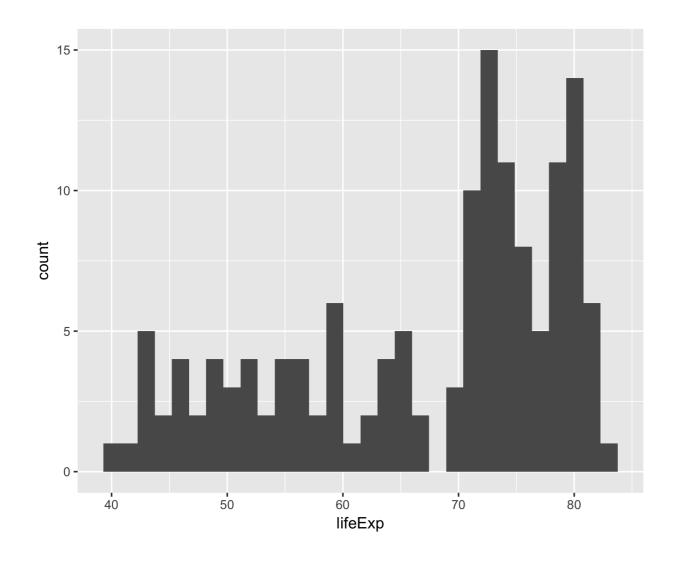
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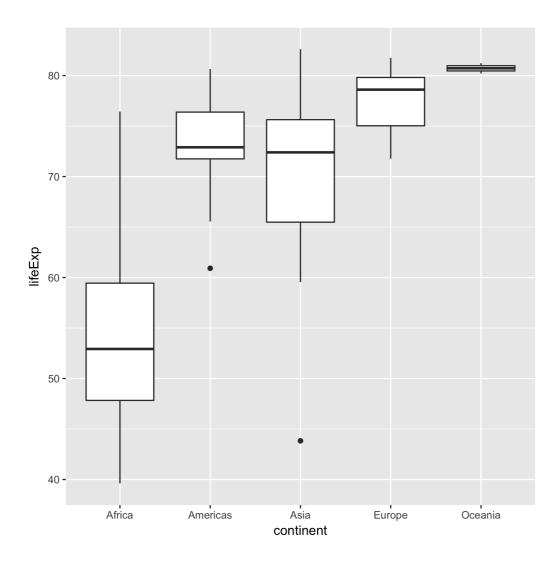
## Histograms



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



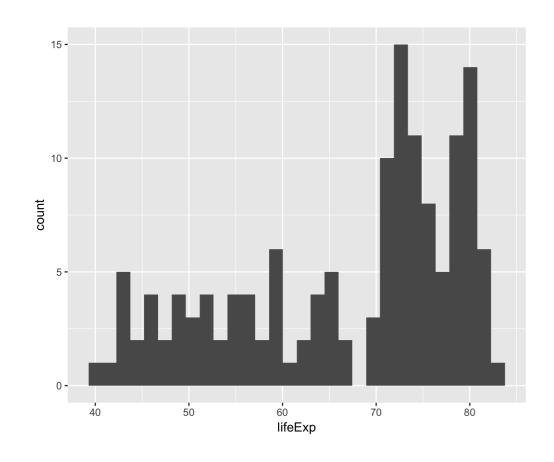
## **Box plots**

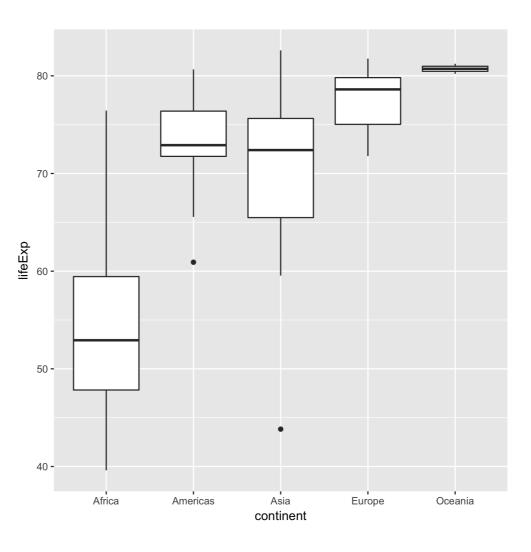


```
ggplot(gapminder_2007, aes(x = continent, y = lifeExp)) +
  geom_boxplot()
```



## Histogram vs box plot





# Let's practice!

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## Conclusion

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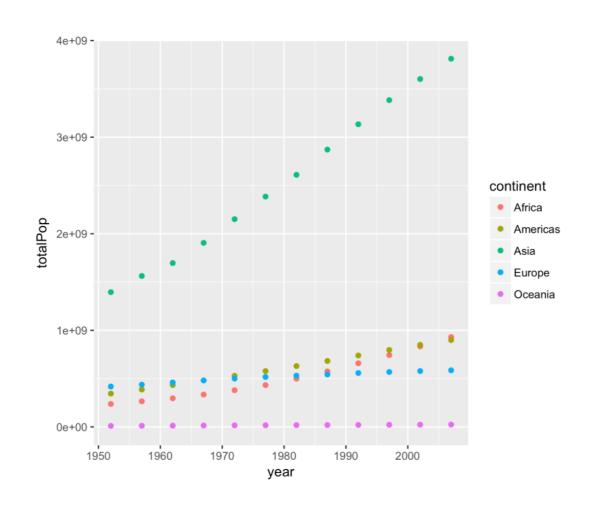


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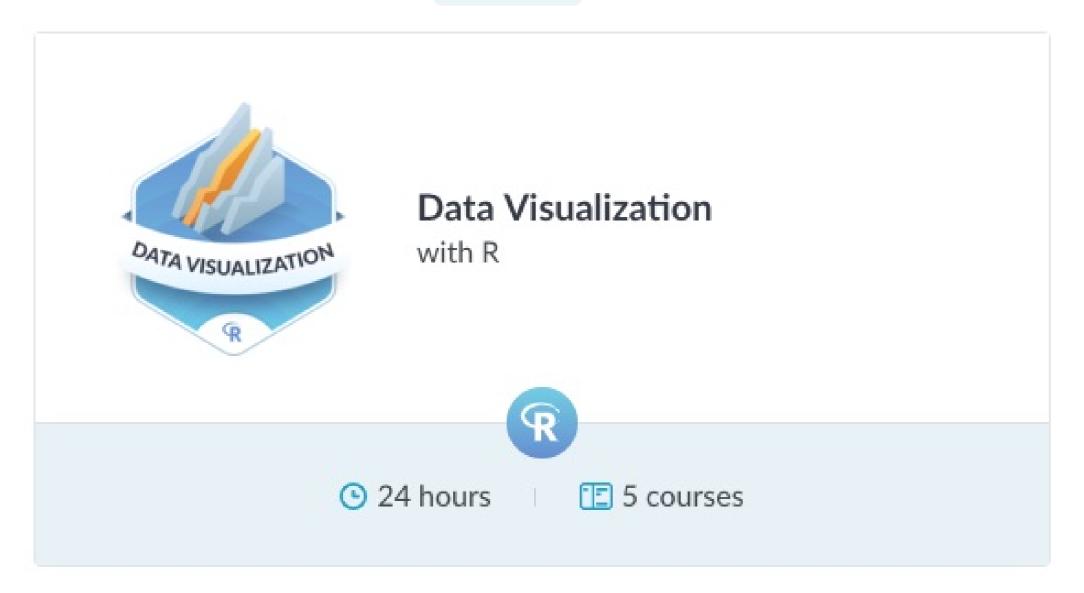
#### Transforming and visualizing data with R

```
ggplot(by_year_continent, aes(x = year, y = totalPop, color = continent)) +
  geom_point() +
  expand_limits(y = 0)
```



#### Next steps: Data visualization

• Data visualization with ggplot2



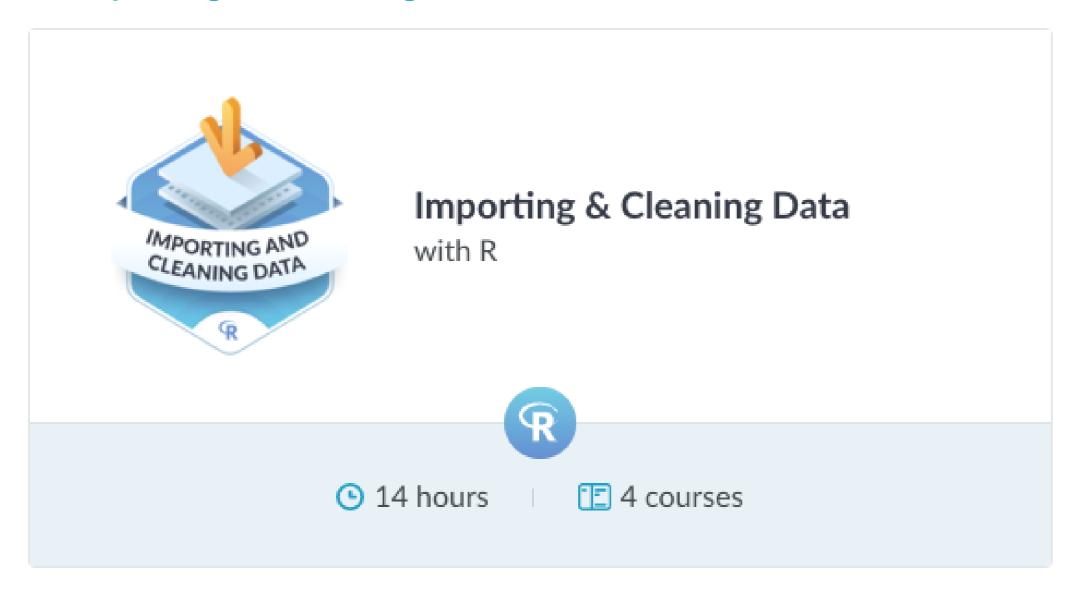
#### Next steps: Data manipulation

Data manipulation with dplyr



#### Next steps: Importing and cleaning data

Importing and cleaning data



# Next steps: Practice!

Exploratory Data Analysis in R: Case Study



# Enjoy your data science journey!

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