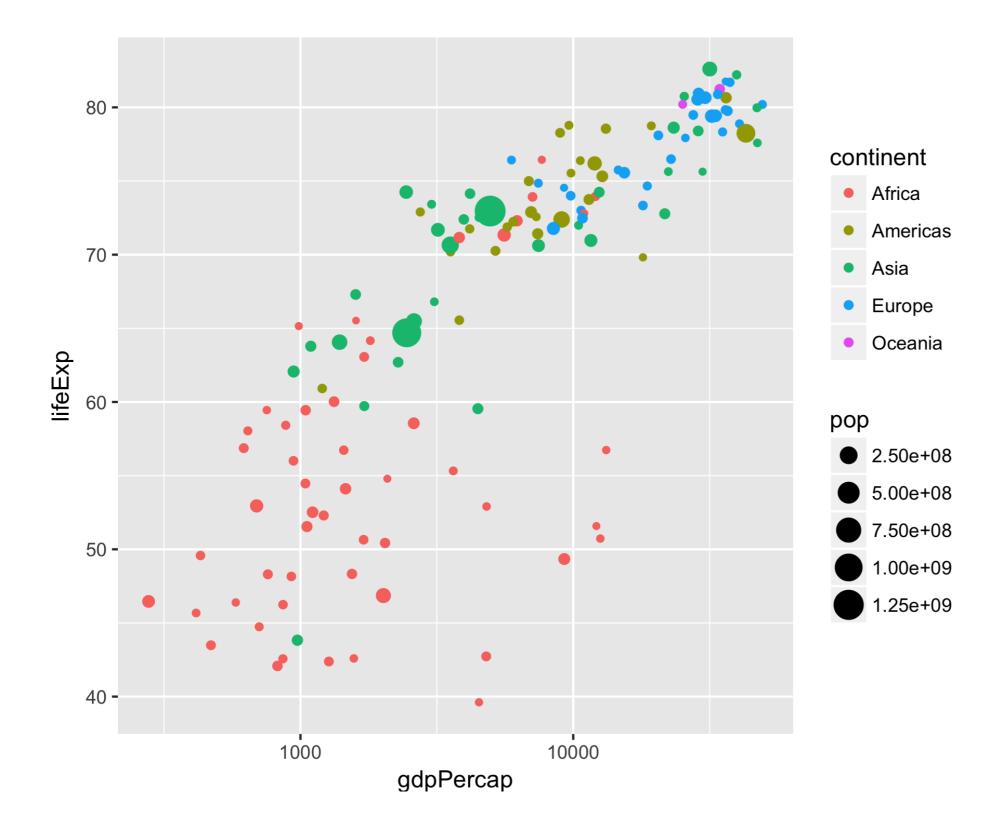
Line plots

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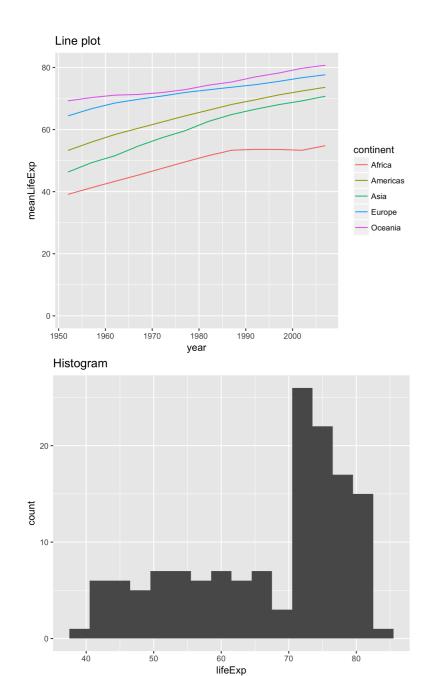


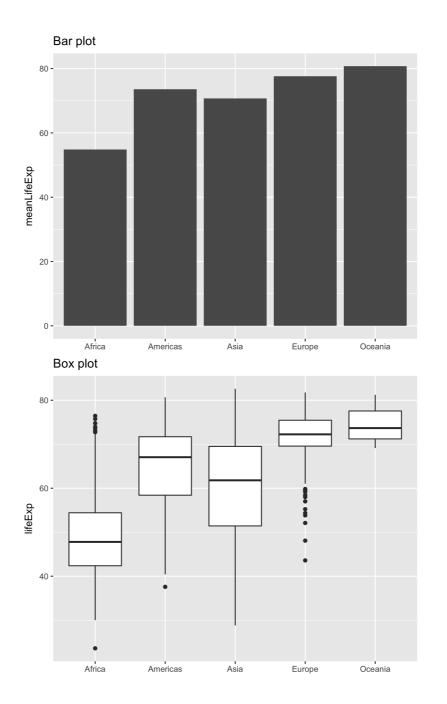
David RobinsonChief Data Scientist, DataCamp





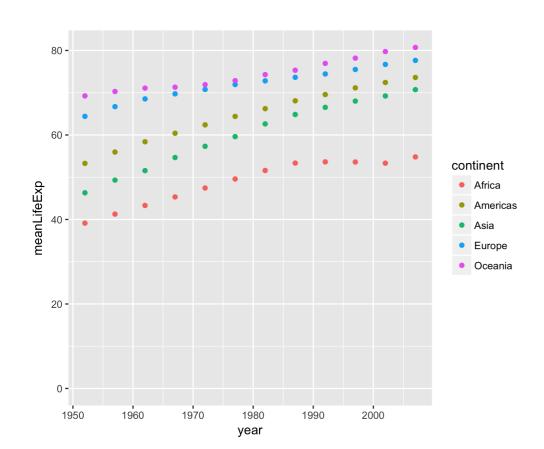
Types of plots

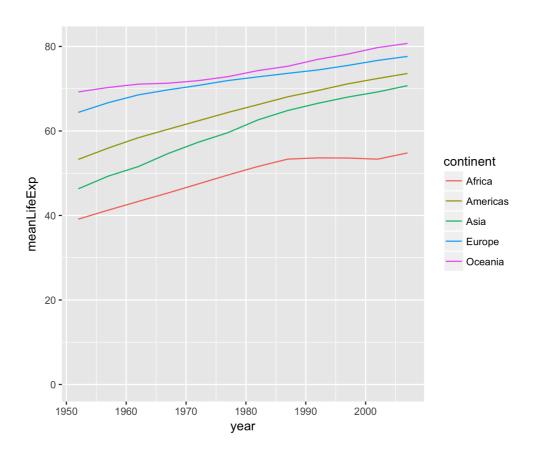






Scatter vs line plot

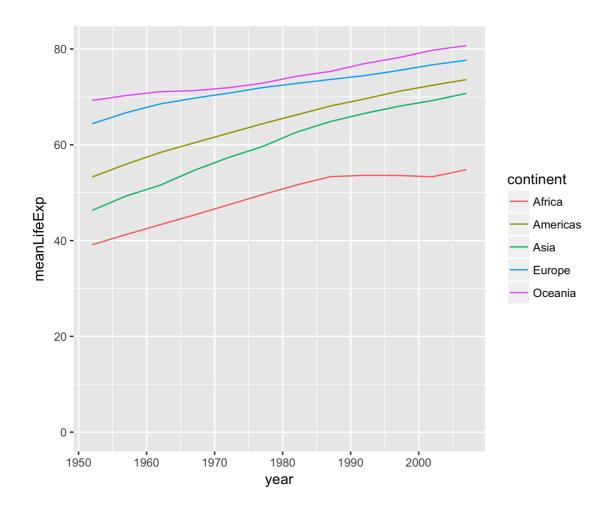




geom_point()

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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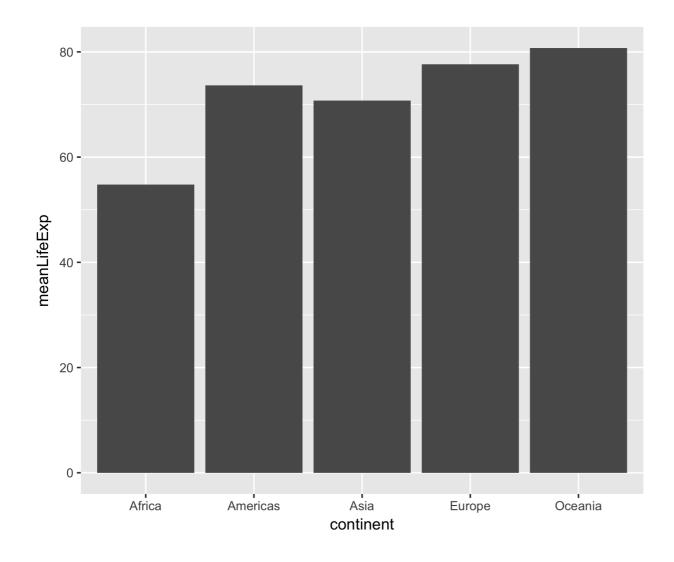
Summarizing by continent

```
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

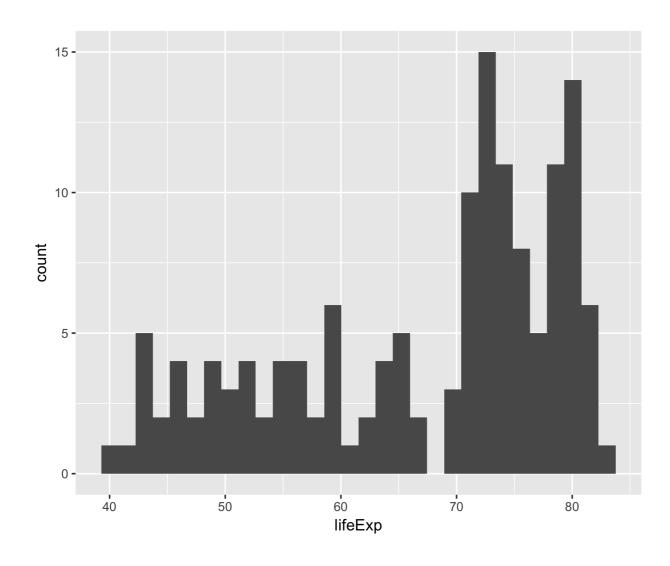
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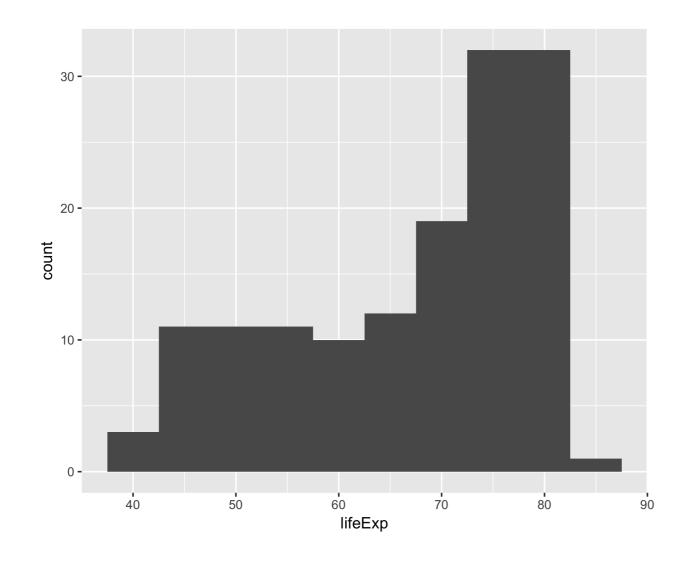
Histogram



```
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

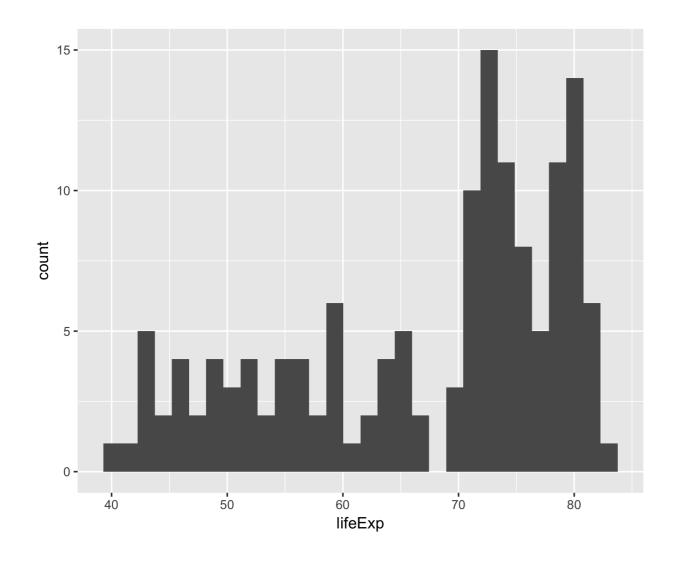
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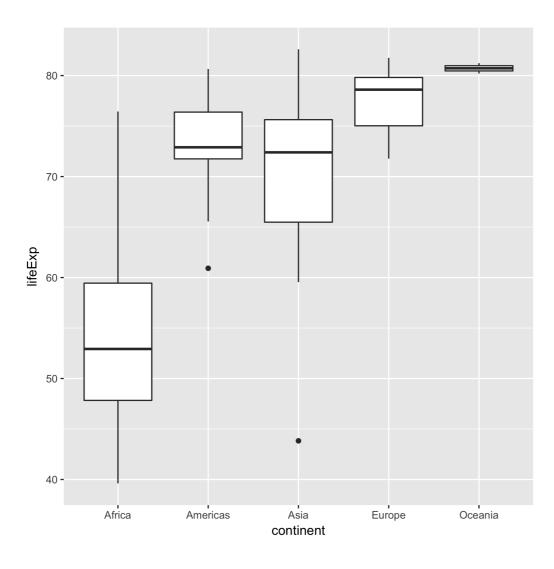
Histograms



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



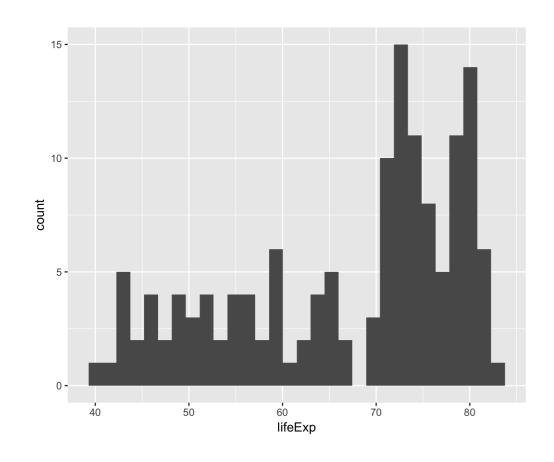
Box plots

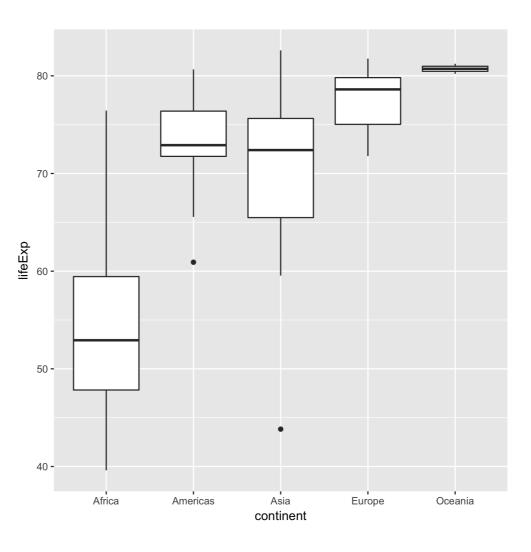


```
ggplot(gapminder_2007, aes(x = continent, y = lifeExp)) +
  geom_boxplot()
```



Histogram vs box plot





Let's practice!

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Conclusion

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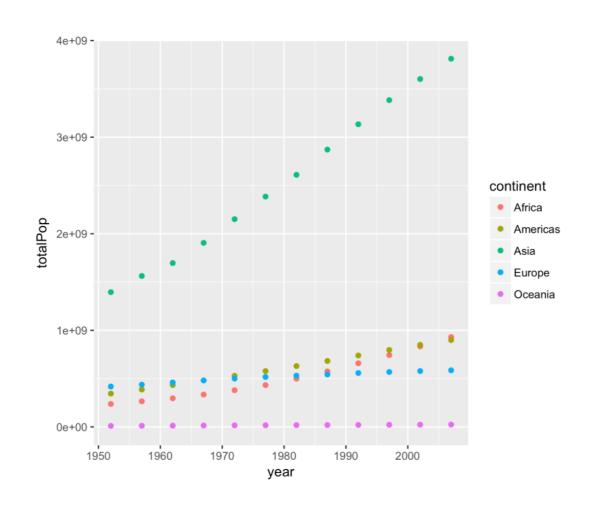


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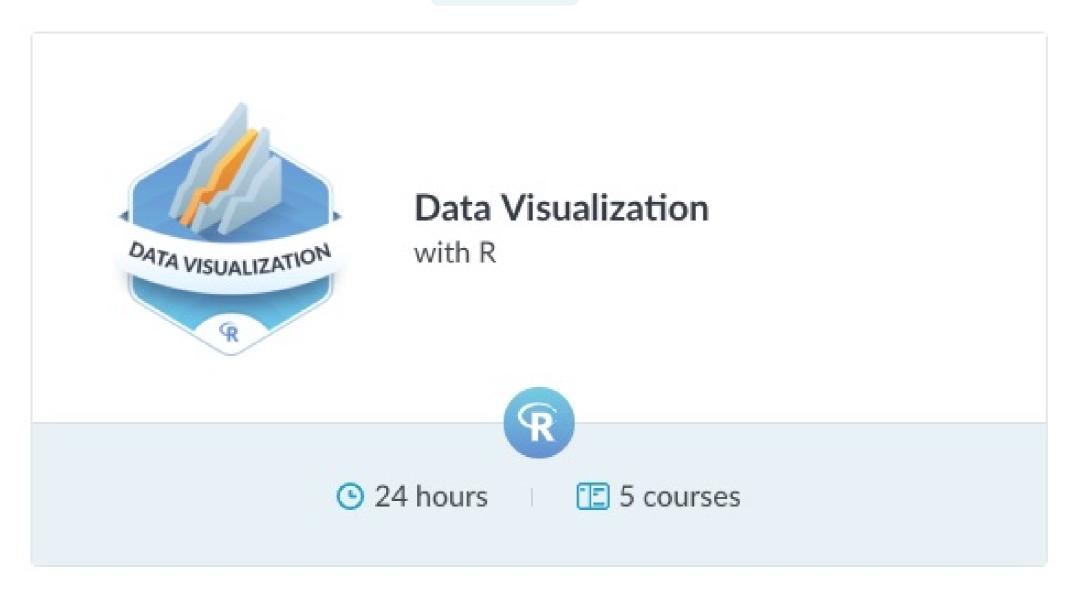
Transforming and visualizing data with R

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



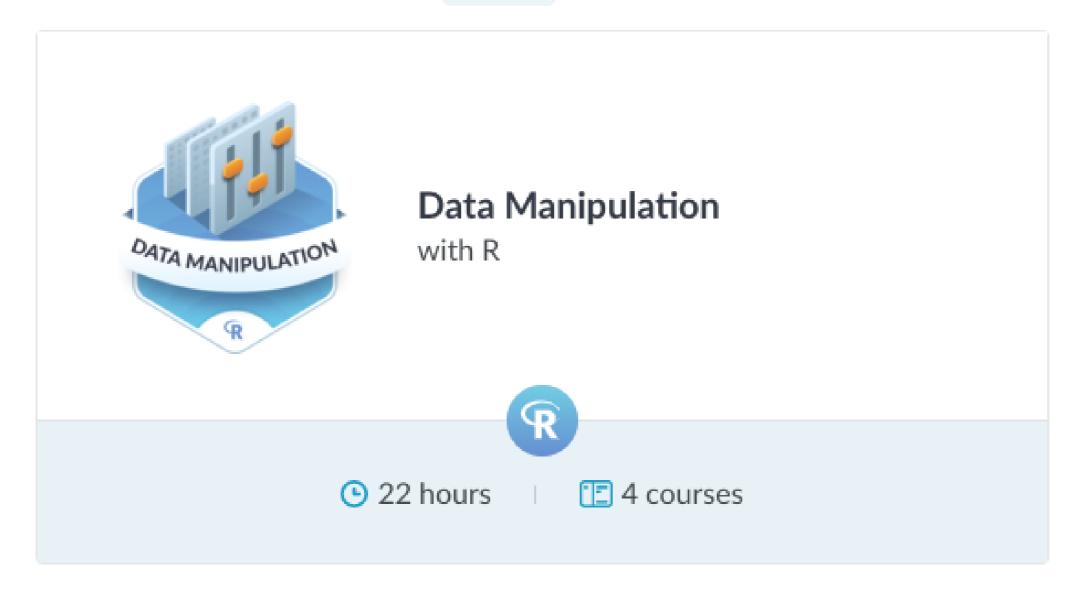
Next steps: Data visualization

• Data visualization with ggplot2



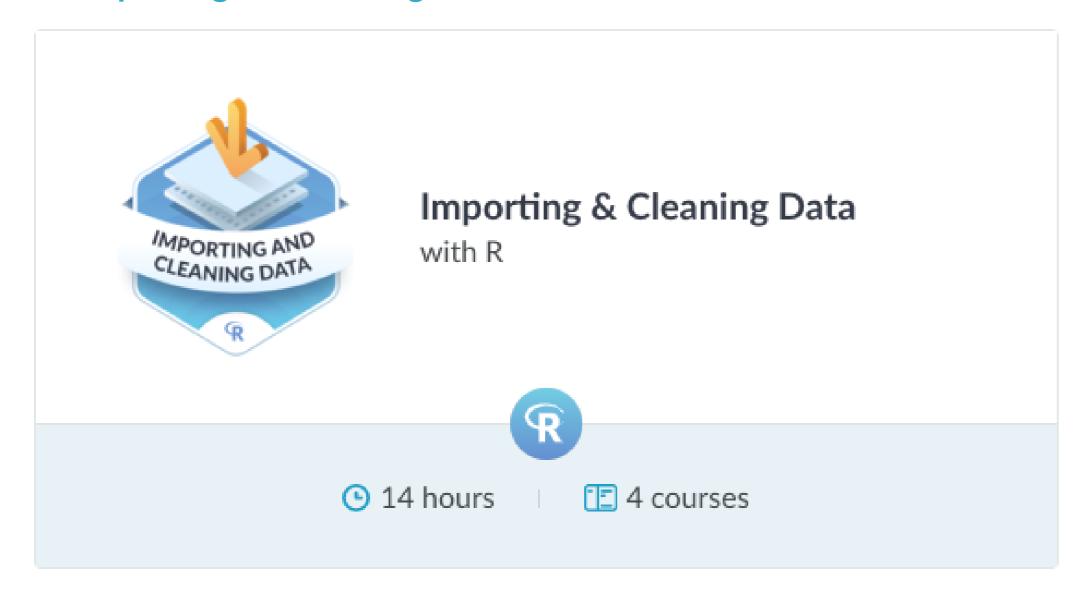
Next steps: Data manipulation

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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