



the greatest total sales and build a distribution based on data for each year. Find platforms that used to be popular but now have zero sales. How long does it generally take for new platforms to appear and old ones to fade?

- Determine what period you should take data for. To do so, look at your answers to the previous questions. The data should allow you to build a prognosis for 2017.
- Work only with the data that you've decided is relevant. Disregard the data for previous years.
- Which platforms are leading in sales? Which ones are growing or shrinking? Select several potentially profitable platforms.
- Build a box plot for the global sales of all games, broken down by platform. Are the differences in sales significant? What about average sales on various platforms? Describe your findings.
- Take a look at how user and professional reviews affect sales for one popular platform (you choose). Build a scatter plot and calculate the correlation between reviews and sales. Draw conclusions.
- Keeping your conclusions in mind, compare the sales of the same games on other platforms.
- Take a look at the general distribution of games by genre. What can we say about the most profitable genres? Can you generalize about genres with high and low sales?

Step 4. Create a user profile for each region

For each region (NA, EU, JP), determine:

- The top five platforms. Describe variations in their market shares from region to region.
- The top five genres. Explain the difference.
- Do ESRB ratings affect sales in individual regions?

Step 5. Test the following hypotheses:

- Average user ratings of the Xbox One and PC platforms are the same.
- Average user ratings for the Action and Sports genres are different.

Set the *alpha* threshold value yourself.

Explain:

- How you formulated the null and alternative hypotheses
- What significance level you chose to test the hypotheses, and why

Step 6. Write a general conclusion

Format: Complete the task in the Jupyter Notebook. Insert the programming code in the *code* cells and text explanations in the *markdown* cells. Apply formatting and add headings.

Data description

- Name*
- Platform*
- Year_of_Release*
- Genre*

