Final Project

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Introduction

In this study a data set of the google play store apps (availabe at the following website: https://www.kaggle.com/lava18/google-play-store-apps) is analized.

Dataset Information

The choosen dataset contains all the details of the applications on Google Play. There are 13 features that describe a given app, the information given in each row of the dataset includes:

- The name of the app;
- The category that the app belongs to;
- The overall user rating of the app;
- The number of revews of the app;
- The size of the app;
- The number of users that downloaded/installed the app;
- If the app is paid of free;
- The price of the app;
- The age group that the app is targeted at;
- It's genre;
- The date that it was last updated;
- The current version of the app available on PlayStore;
- The minimum required Android version to run the app.

The original dataset have 10.041 rows and 13 columns.

How many apps are there in each category?

To know how many applications you have in each of the categories, knowing that each row in the dataset corresponds to one application, we just have to count the number of rows for each category. Based on that the graph bellow was plotted showing us that the amount of apps on each category.

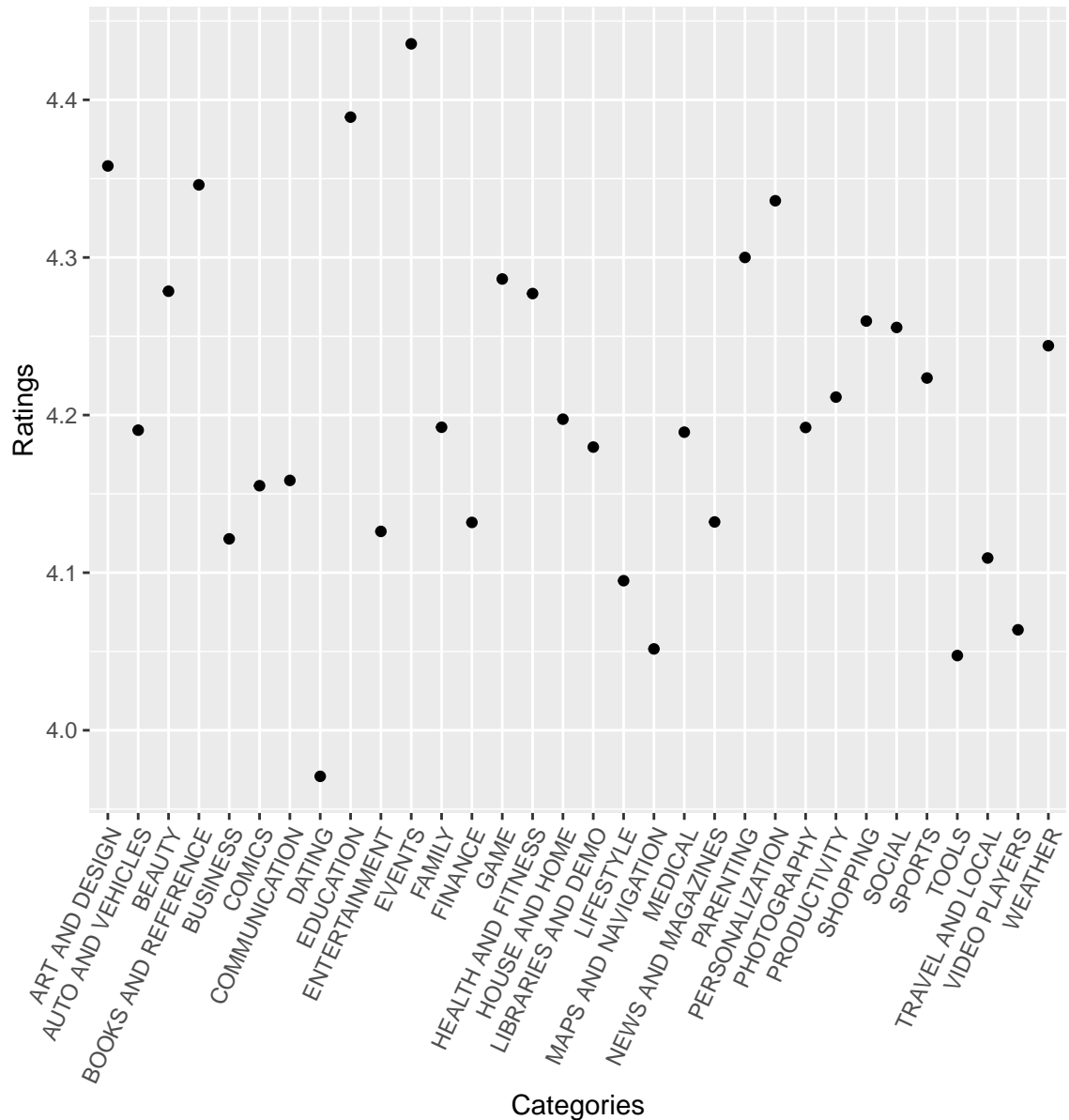Number of Applications for Each Category

From kaggle.com
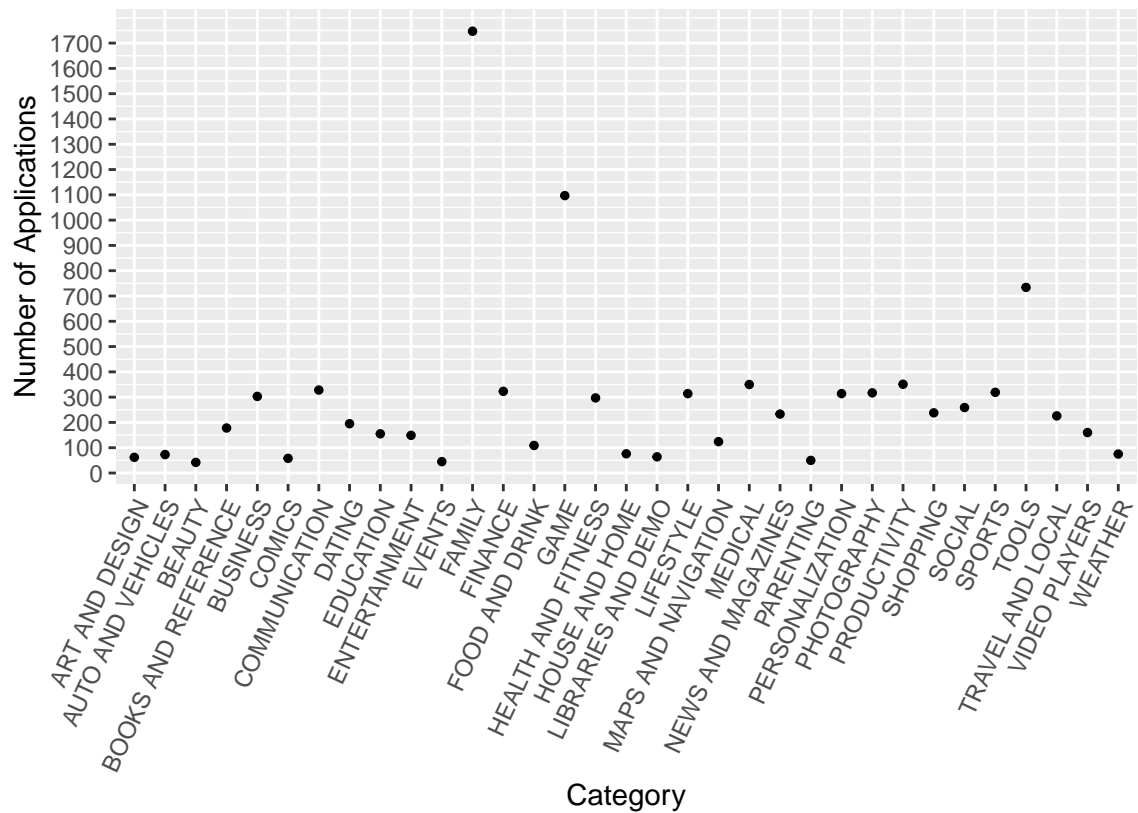
Google Play Store Apps

How many categories have the mean rating grater than 4?

To analyze how many of the categories have a rating greater than 4, the apps were categorized by category and the average rating was calculated for each set of apps in a given category. As shown in the graph below, all the categories have the rating above four, with the exception of "Dating" category.

Apps Categories Vs Apps Ratings

From kaggle.com

Categories

Google Play Store Apps

How the rating relate to the number of reviews?

To find out the relation of the reviews with the number of evaluations, an average of the evaluations of each category of the applications was generated and from that the graph below was generated.

Apps Ratings Vs Apps Reviews
From kaggle.com

Google Play Store Apps
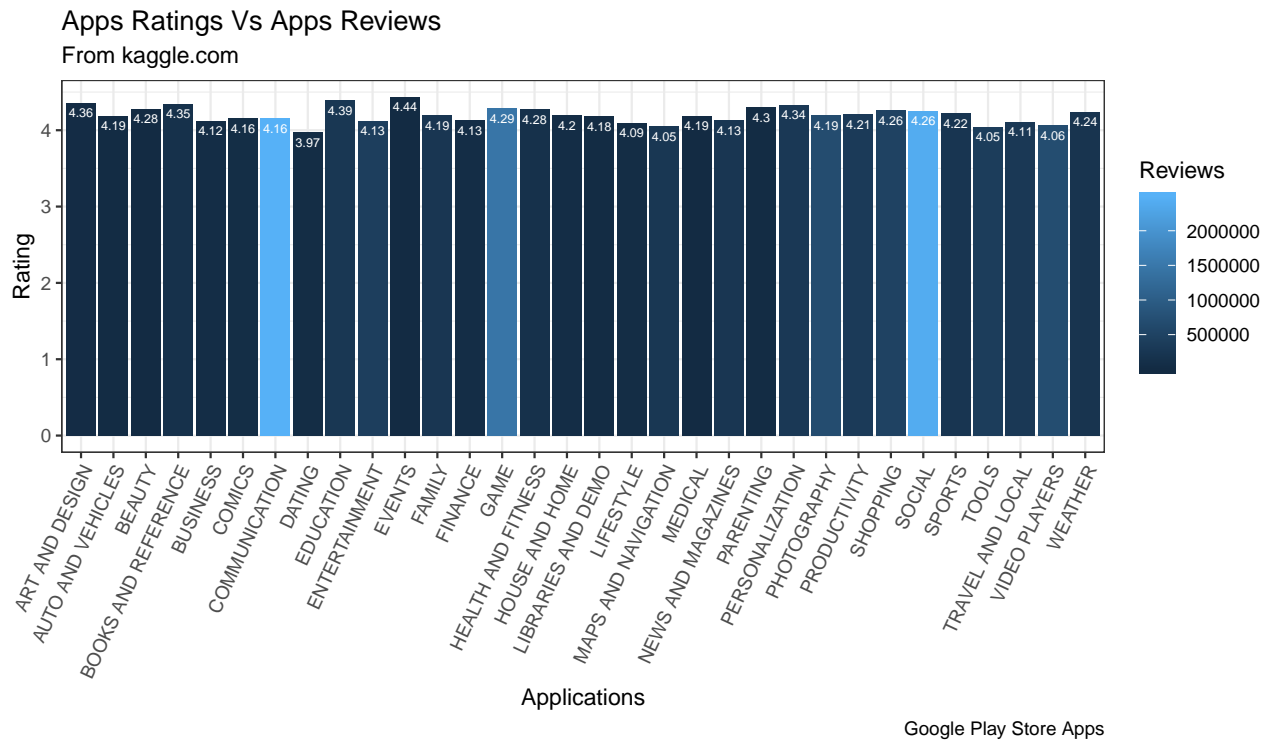
How does the type of the app (paid/free) relate to the rating?

To visualize how the app beeing free or paid influence on the app rating, the dataset was split into paid and free applications and the average rating was calculated for each of these types of applications. By analyzing the graph below it is possible to see that the fact that the application beeing free or paid does not necessarily directly influence in the user's perception of the quality of the application.

Apps Vs Apps Reviews
From kaggle.com

Google Play Store Apps