Data Exploration

Data Set Overview

The table below lists each of the files available for analysis with a short description of what is found in each one.

File Name	Description	Fields	
ad-clicks.csv	Each line in the file represents when a player clicks on an ad in a Flamingo game.	-timestamp: when the click occurredtxld: a unique id for the click -userSessionid: the id of the user session for the user who made the click -teamid: the current team id of the user who made the click -userid: the user id of the user who made the click -adld: the id of the ad clicked on -adCategory: the category/type of ad clicked on	
buy-clicks.csv	Each line in this file represents when a player makes an in-app purchase in a Flamingo game.	-timestamp: when the purchase was madetxld: a unique id for the purchase -userSessionId: the id of the user session for the user who made the purchase -team: the current team id of the user who made the purchase -userId: the user id of the user who made the purchase -buyld: the id of the item purchased -price: the price of the item purchased	
users.csv	This file contains a line for each user who plays the game.	-timestamp: when user first played the gameuserld: the user id assigned to the usernick: the nickname chosen by the usertwitter: the twitter handles of the userdob: the date of birth of the usercountry: the two-letter country code where the user lives.	

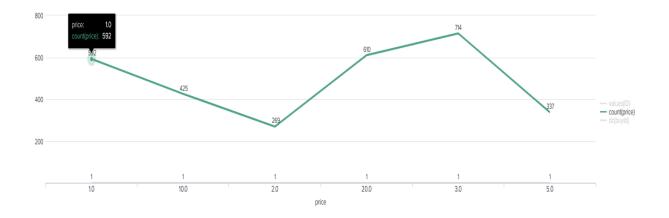
team.csv	This file contains a line for each team terminated in the game.	-teamId: the id of the team -name: the name of the team -teamCreationTime: the timestamp when the team was created -teamEndTime: the timestamp when the last member left the team -strength: a measure of team strength, roughly corresponding to the success of a team -currentLevel: the current level of the team	
team-assignments.csv	Each line in this file represents each time a user joins a team. The user can be in at most one team at a time.	-timestamp: when the user joined the teamteam: the id of the team -userId: the id of the user -assignmentId: a unique id for this assignment	
level-events.csv	Each line in this file represents each time a team starts or ends with a level in the game	-timestamp: when the event occurredeventId: a unique id for the event -teamId: the id of the team -teamLevel: the level started or completed -eventType: the type of event, either start or end	
user-session.csv	Each line in this file describes a user session, which denotes when a user starts and stops playing the game. Additionally, when a team goes to the next level in the game, the session is ended for each user in the team and a new one started.	-timestamp: a timestamp denoting when the event occurreduserSessionId: a unique id for the sessionuserId: the current user's IDteamId: the current user's teamassignmentId: the team assignment id for the user to the teamsessionType: whether the event is the start or end of a sessionteamLevel: the level of the team during this sessionplatformType: the type of platform of the user during this session.	

game-clicks.csv	Each line in this file represents each time the user makes a click in the game.	-timestamp: when the click occurredclickld: a unique id for the clickuserld: the id of the user performing the clickuserSessionId: the id of the session of the user when the click is performedisHit: denotes if the click was on a flamingo (value is 1) or missed the flamingo (value is 0)teamId: the id of the team of the userteamLevel: the current level of the team of the user.
-----------------	---	---

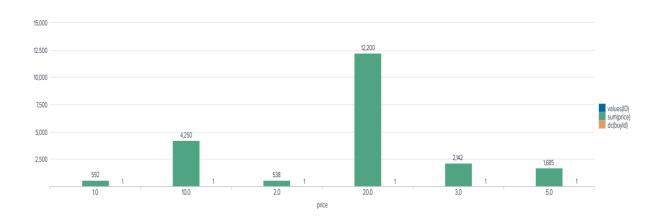
Aggregation

Amount spent buying items	21407	
Number of unique items available to be purchased	6	

A histogram showing how many times each item is purchased:

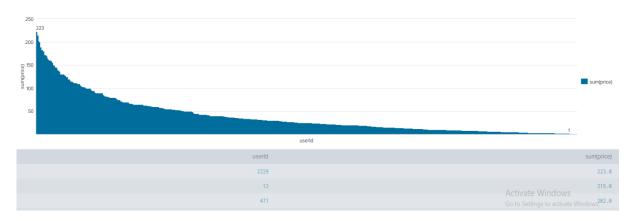


A histogram showing how much money was made from each item:



Filtering

A histogram showing total amount of money spent by the top ten users (ranked by how much money they spent).



The following table shows the user id, platform, and hit-ratio percentage for the top three buying users:

Rank	User Id	Platform	Hit-Ratio (%)
1	2229	iPhone	11.6%
2	12	iPhone	13.07%
3	471	iPhone	14.5%