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	
adclicks.csv	A line is added to this file when a player clicks on an advertisem ent in the Flamingo app.	timestamp: when the click occurre d. txId: a unique id (within adclicks.log) for the click userSessionid: the id of the user ses sion 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 adId: the id of the ad clicked on adCategory: the category/type of a d clicked on	
buyclicks.csv	A line is added to this file when a player makes an inapp purchase in the Flamingo ap p.	timestamp: when the purchase was made. txId: a unique id (within buyclicks.log) for the purchase userSessionId: the id of the user se ssion 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 buyId: the id of the item purchased price: the price of the item purchased	
users.csv	This file contains a line for each user playing the game.	timestamp: when user first played the game. userId: the user id assigned to the user. nick: the nickname chosen by the user. twitter: the twitter handle of the user.	

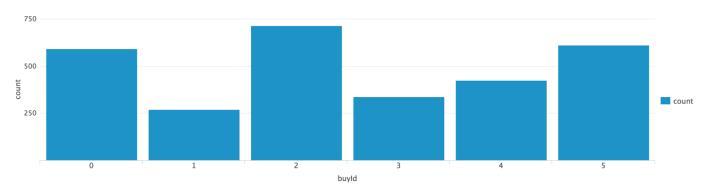
		dob: the date of birth of the user. country: the two- letter country code where the user 1 ives	
team.csv	This file contains a line for each team terminated in the game.	teamId: the id of the team name: the name of the team teamCreationTime: the timestamp when the team was created teamEndTime: the timestamp whe n the last member left the team strength: a measure of team strengt h, roughly corresponding to the suc cess of a team currentLevel: the current level of t he team	
team-assignments.csv	A line is added to this file each ti me a user joins a team. A user ca n be in at most a single team at a time.	timestamp: when the user joined the team. team: the id of the team userId: the id of the user assignmentId: a unique id for this a ssignment	
level-events.csv	A line is added to this file each ti me a team starts or finishes a lev el in the game	timestamp: when the event occurre d. eventId: 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 whe n a user starts and stops playing the game. Additionally, when a t eam 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 occurred. userSessionId: a unique id for the s ession. userId: the current user's ID. teamId: the current user's team. assignmentId: the team assignment id for the user to the team. sessionType: whether the event is t he start or end of a session. teamLevel: the level of the team du ring this session.	

		platformType: the type of platform of the user during this session.
gameclicks.csv	A line is added to this file each ti me a user performs a click in the game.	timestamp: when the click occurre d. clickId: a unique id for the click. userId: the id of the user performin g the click. userSessionId: the id of the session of the user when the click is perfor med. isHit: 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 us er teamLevel: the current level of the team of the user

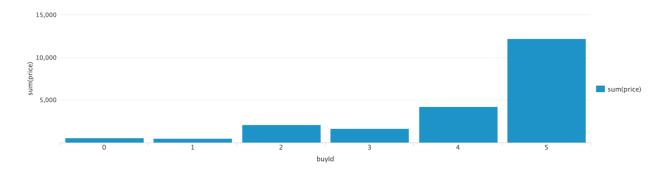
Aggregation

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

A histogram showing how many times each item is purchased:

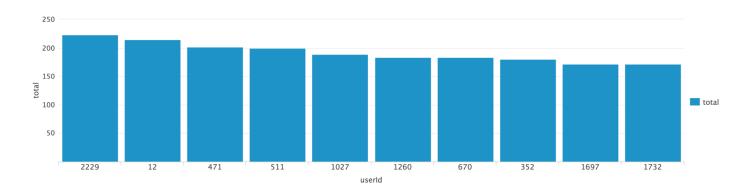


A histogram showing how much money was made from each item:



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	2	iphone	13.1
3	471	iphone	14.5