

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 ERD table: AdClicks	A line is added to this file when a player clicks on an advertisement in the Flamingo app.	timestamp, txID, userSessionid, teamid, userid, adID, adCategory timestamp : when the click occurred. txID : a unique id (within ad-clicks.log) 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 adID : the id of the ad clicked on adCategory : the category/type of ad clicked on
buy-clicks.csv ERD table: InAppPurchases	A line is added to this file when a player makes an in-app purchase in the Flamingo app.	timestamp, txID, userSessionid, team, userid, buyid, price timestamp: when the purchase was made. txID: a unique id (within buy-clicks.log) 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

		<p>the purchase</p> <p>buyID: the id of the item purchased</p> <p>price: the price of the item purchased</p>
<p>users.csv ERD table: User</p>	<p>This file contains a line for each user playing the game.</p>	<p>timestamp, id, nick, twitter, dob, country</p> <p>timestamp: when user first played the game.</p> <p>id: the user id assigned to the user.</p> <p>nick: the nickname chosen by the user.</p> <p>twitter: the twitter handle of the user.</p> <p>dob: the date of birth of the user.</p> <p>country: the two-letter country code where the user lives.</p>
<p>team.csv ERD table: Team</p>	<p>This file contains a line for each team terminated in the game.</p>	<p>teamid, name, teamCreationTime, teamEndTime, strength, currentLevel</p> <p>teamid: the id of the team</p> <p>name: the name of the team</p> <p>teamCreationTime: the timestamp when the team was created</p> <p>teamEndTime: the timestamp when the last member left the team</p> <p>strength: a measure of team strength, roughly corresponding to the success of a team</p> <p>currentLevel: the current level of the team</p>

team-assignments.csv ERD table: TeamAssignment	A line is added to this file each time a user joins a team. A user can be in at most a single team at a time.	time, team, userid, assignmentid time: when the user joined the team. team: the id of the team userid: the id of the user assignmentid: a unique id for this assignment
level-events.csv ERD table: LevelEvent	A line is added to this file each time a team starts or finishes a level in the game	time, eventId, teamid, level, eventType time: when the event occurred. eventId: a unique id for the event teamid: the id of the team level: the level started or completed eventType: the type of event, either start or end
user-session.csv ERD table: User_Sessions	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,userSessionId,userId,teamId,assignmentId,sessionType,teamLevel,platformType timeStamp: a timestamp denoting when the event occurred. userSessionId: a unique id for the session. userId: the current user's ID. teamId: the current user's team. assignmentId: the team assignment id for the user to the team.

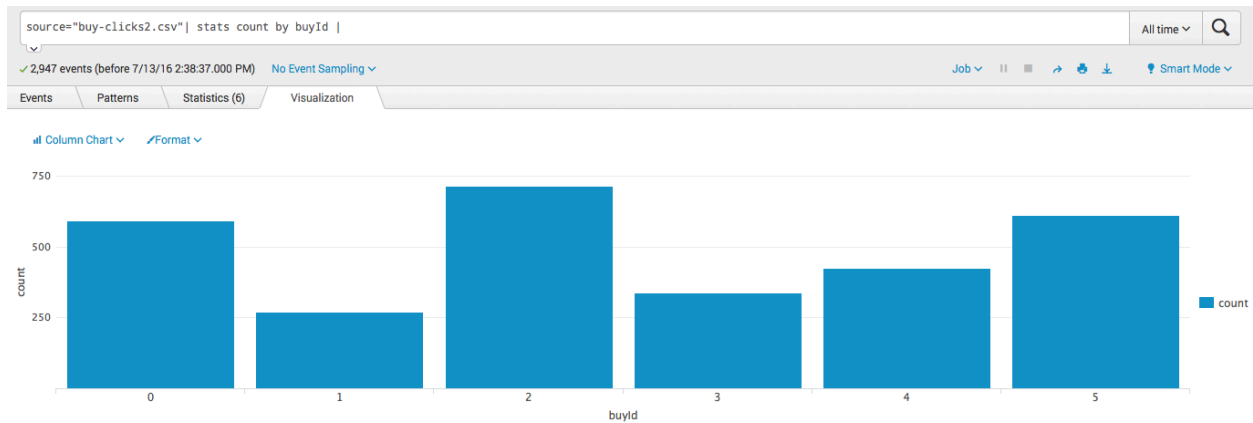
		<p>sessionType: whether the event is the start or end of a session.</p> <p>teamLevel: the level of the team during this session.</p> <p>platformType: the type of platform of the user during this session.</p>
<p>game-clicks.csv ERD table: GameClicks</p>	<p>A line is added to this file each time a user performs a click in the game.</p>	<p>time, clickid, userid, usersessionid, isHit, teamId, teamLevel</p> <p>time: when the click occurred.</p> <p>clickid: a unique id for the click.</p> <p>userid: the id of the user performing the click.</p> <p>usersessionid: the id of the session of the user when the click is performed.</p> <p>isHit: denotes if the click was on a flamingo (value is 1) or missed the flamingo (value is 0)</p> <p>teamId: the id of the team of the user</p> <p>teamLevel: the current level of the team of the user</p>

Aggregation

Amount spent buying items	21407.0
# Unique items available to be purchased	6

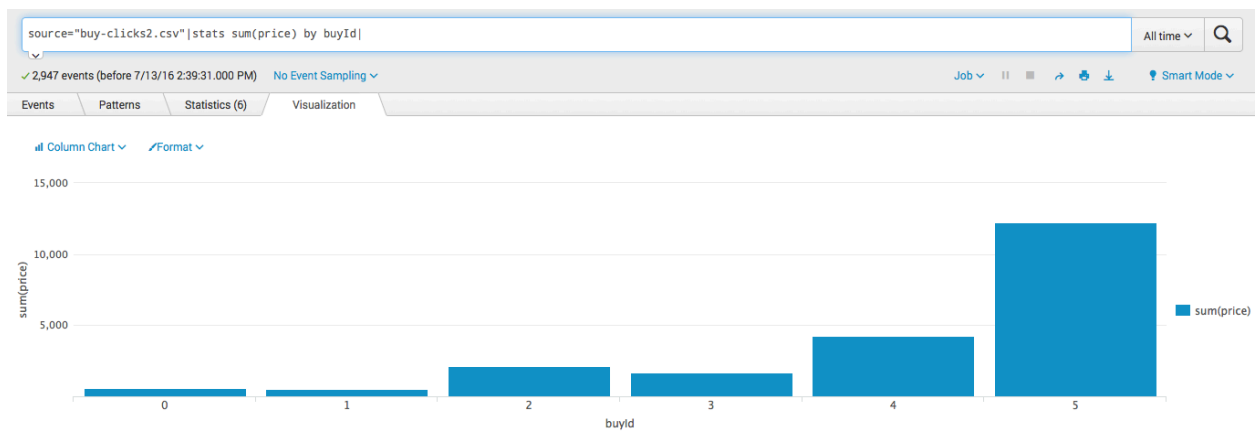
A histogram showing how many times each item is purchased:

(source="buy-clicks.csv" | stats count by buyId |)



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

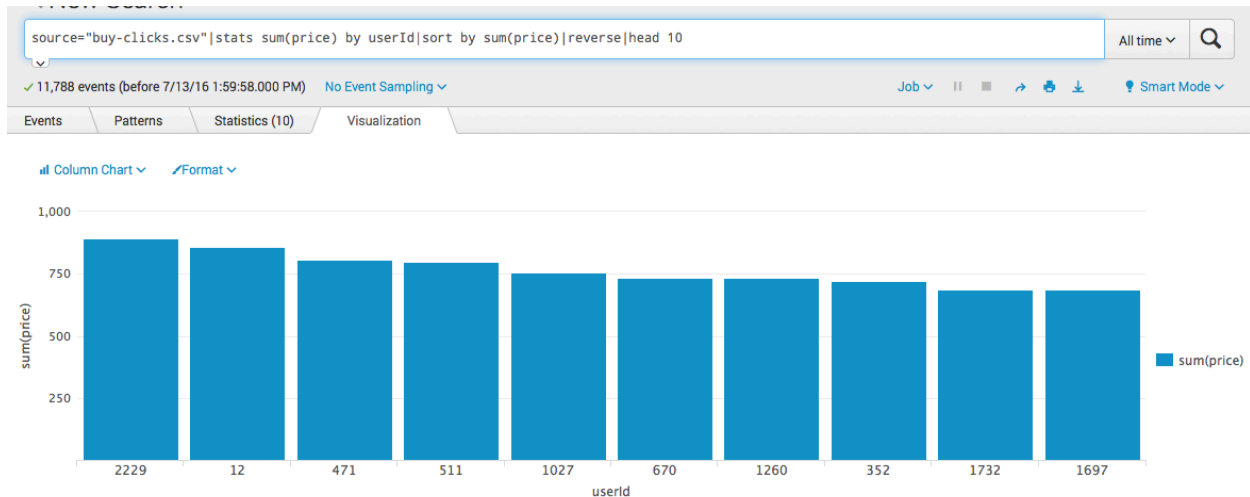
(source="buy-clicks.csv" | stats sum(price) by buyId |)



Filtering

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

(source="buy-clicks.csv"|stats sum(price) by userId|sort by sum(price)|reverse|head 10)



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

(source="user-session.csv" userId=2229|stats count by platformType
source="user-session.csv" userId=12|stats count by platformType
source="user-session.csv" userId=471|stats count by platformType
source="game-clicks.csv" userId=2229|stats avg(isHit)|
source="game-clicks.csv" userId=12|stats avg(isHit)|
source="game-clicks.csv" userId=471|stats avg(isHit)|)

Rank	User Id	Platform	Hit-Ratio (%)
1	2229	iphone	11.5
2	12	iphone	13.0
3	471	iphone	14.5