

Problem Description

A female student in New York, Manhattan want to find a neighborhoods with venues that mostly attract the people from her gender and age.

Needed Data

This project will require information about the neighborhood of Toronto and the genders of the customers for each venue and the number of likes. This information is available freely from Venue's Stats. The neighborhood will be clustered based on how attractive they are to young female customer. The screenshot below show the main data that are going to be used (ageBreakdown, genderBreakdown)

Field	Description
totalCheckins	Number of total checkins at the venue during the time period.
newCheckins	Number of new visitors to the venue during the time period.
uniqueVisitors	Number of unique visitors at the venue during the time period.
sharing	A subobject containing fields <code>twitter</code> and <code>facebook</code> indicating the number of check-ins at the venue pushed to twitter and facebook.
genderBreak-down	A subobject containing fields <code>female</code> and <code>male</code> indicating the number of checkins at the venue by men and women.
ageBreak-down	An array of subobjects with fields <code>age</code> and <code>checkins</code> indicating the number of check-ins at the venue by people of different age ranges.
hourBreak-down	A 24-element array of subobjects with fields <code>hour</code> and <code>checkins</code> indicating the number of checkins at the venue during each hour of the day.
visitCountHistogram	A list of subobjects with fields <code>checkins</code> and <code>users</code> indicating how many users checked in a given number of times.
topVisitors	An array of the top 10 users by check-in count during the time period. Array elements are

To use the above API, it's also required to know the venue ID and categories thus the category API is going to be used as well as shown in the screen shoot below:

Response Fields

Field	Description
id	A unique identifier for this category.
name	Name of the category.
pluralName	Pluralized version of the category name.
shortName	Shorter version of the category name.
icon	Pieces needed to construct category icons at various sizes. Combine <code>prefix</code> with a size (32, 44, 64, and 88 are available) and <code>suffix</code> , e.g. <code>https://foursquare.com/img/categories/food/default_64.png</code> . To get an image with a gray background, use <code>bg_</code> before the size, e.g. <code>https://foursquare.com/img/categories_v2/food/icecream_bg_32.png</code> .
primary	If this is the primary category for parent venue object.
categories	A list of categories that are descendants of this category in the hierarchy.

Methodology

later

Results

later

Discussion

later

Conclusion

later

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