Note: this notebook makes hundreds of thousands of API calls and takes hours, and will require you to have your own keys from ravelry. All the data herein is exported to a .csv file stored on github.

To get your own keys, see: https://www.ravelry.com/api. In []: # import packages import pandas as pd import requests import json
import random import numpy In []: # open credentials with open('C:/Users/clare/Documents/Flatiron/PatternRecommender/.secrets/creds.ison') as f: creds = json.load(f) In []: # ravelry's api does not provide a list of users, but it has ~9,000,000 and they are sequentially # numbered by order of membership and numbers are not reused. # tried 500,000 integers betwen 1 and 12,000,000 until I had 100,000 users. for i in random.sample(range(1, 12000000), 500000): 1 in random.sample(range(), Izeeeeee); seeeeee);
try:
 url = 'https://api.ravelry.com/people/' + str(i) +'.json'
 response = requests.get(url, auth=(creds['id'], creds['key']))
 users.append(response.json()['user']['username'])
 user = response.json()['user']['username']
except ValueError: user = 0 pass if len(set(users)) > 100000: print(i, len(set(users)), user) In []: users = list(set(users)) In []: parsed_data = [] # use api to call each users projects if they are knitting projects (not crochet or weaving)
and based on a pattern, not just knit from the imagination. parse the responses into a list of tuples. url ='https://api.ravelry.com/projects/' + user + '/list.json?sort=completed_'
response = requests.get(url, auth=(creds['id'], creds['key'])) parsed_data.append(project_tuple) except ValueError: print(i, len(parsed_data)) In []: len(parsed data) In []: # generate data frame from parsed data. df = pd.DataFrame(parsed_data, columns = ['user', 'completed', 'rating', 'status', 'pattern_id', 'average_rating', 'rating_count', 'attributes', 'categories']) In []: # export to CSV df.to_csv('saved_100000_calls.csv', index =False)