

1. Project Overview: What were you trying to accomplish? What was your general approach?

My initial goal was to generate results that show what is trending among my friends on Facebook, but I ran into many challenges as soon as I started. First, when listing all my friends, it could only access 99 of my friends' ids and information, which wasn't a problem at all. However, considering that Facebook kept timing out my connection while running my code, I was only able to access information from about 10 friends. I created pseudo-code to make sure I structured what I wanted to do. My process was to use my information to find the ids of my friends, print their statuses, use a for loop to keep track of the word count of words that were written in their statuses and finally, printing what was the most common word printed. I was hoping to also account for common words, such as "the", to make sure that the most common words didn't print out as what is trending on Facebook.

2. Implementation: How does your code work? What libraries did you use? How would someone (for instance a NINJA) run your code? What data structures (e.g. lists, dictionaries) did you use in your program and why?

My code takes my Facebook license to access my friends' accounts and filters through that information by printing only sentences that don't have any of the words in the key_list. I tried to run a for loop for the key_list but I don't understand how to use "any" very well in Python. I tried looking it up, but the code I found wasn't as helpful. I tried several ways of trying to get my code to say that if at least one of the words is in any sentence, then it shouldn't print that sentence. In my code, I mainly used for loops and if else statements. If a NINJA were to run my code, they would put in their Facebook license key and have it run the code, showing them what is popular among their friends. I tried using a list of strings, but that didn't really work out so well.

3. Include some examples of your program's output.

('I am really in need of some good vibes.... Must find time to pay into the karma bank so I can get some good coming back to me!', u'Jeanna Michalek')

('Yogurt yeti... Dropping off Elizabeth Frances Michalek and visiting with Abbie Byers!', u'Jeanna Michalek')

('Director of Operations (Detroit)\nPosted 8/26/2014 by MNA\n\n\nMatrix Theatre Company is a 501(c)(3) not-for-profit organization located in Southwest Detroit and operating in its 23rd year. The Matrix Theatre produces a full Mainstage and Second Stage series of productions each year, and the Matrix School of Theatre offers three semesters of classes and multiple weeks of summer camps in playwriting, puppetry and performance for children aged 5-18.\n\nMatrix Theatre Company is seeking a full time Director of Operations available to start as soon as Sept. This position will report to the CEO and will oversee all business aspects of the company.\n\nFor a full list of responsibilities, accountabilities and necessary qualifications, please contact Jake Hooker at jhooker@matrixtheatre.org, or by mail to Matrix Theatre Company at 2730 Bagley Street, Detroit, MI 48216. Please contact Jake at 313-967-0999, extension 6 with questions.', u'Jeanna Michalek')

This example shows a couple of posts from one of my friends that was outputted by my code.

4. Reflection: from a process point of view, what went well? what could you improve? Was your

project appropriately scoped? Did you have a good plan for unit testing?

I was hoping that the Facebook API would be able to give me just the statuses of my friends, but I wasn't able to find code to do that for me. Online, it said that it would be possible to print out statuses, but it didn't specify how, so in the end, I had to filter out the Facebook histories of all my friends. Filtering out the text was difficult, because I was trying to use the `any` function, but I also started working on this project later than I planned. In addition, I was trying to figure it out for myself rather than asking NINJAs, but I should have gone and asked the NINJAs about the `any` function, because I think it would've helped me a lot in filtering out my text. Also, for some reason, my word counter isn't counting the words in the text like I want it to; it's counting something entirely different, but I don't really know what. I guess I might have set some high expectations for myself in terms of the scope of my project, but then, I also assumed that I would be able to use to find code for the Facebook API to just post the statuses of my friends, which would have made my life a lot easier. Unit testing was pretty simple, because I just used many print statements to make sure that certain parts of my code were working. Overall, I learned a lot, but I wish I could have achieved more.

Since I wasn't as satisfied with my code, I wrote a new script which takes the statuses that people have liked and gives the most common words based on that. At first, I tried a weighting system, where words with more likes got more "points", to see what words are popular, but it didn't really make much sense. My code (`fbScript.py`) basically takes statuses that people have liked (I tried to take out all the photos and videos posted) and tallies all the words used in those statuses. Unfortunately, I forgot to account for common words like "and" and "the", so the results mainly tell me what common words people use in their statuses on Facebook.