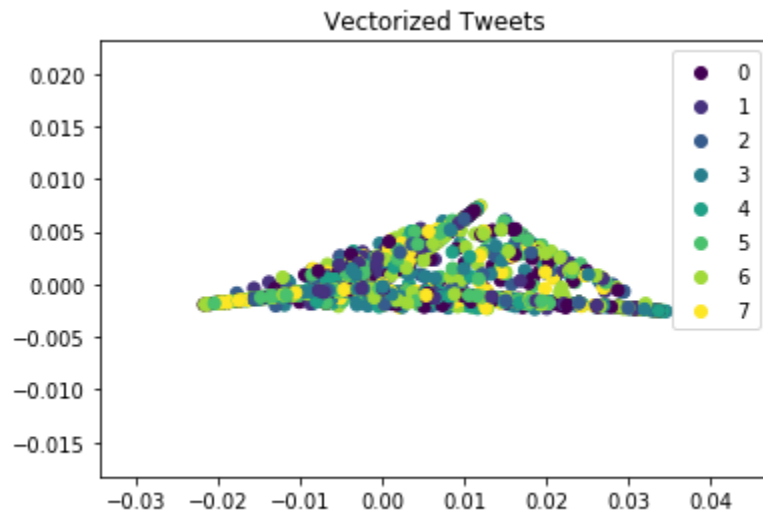


TASK 1:

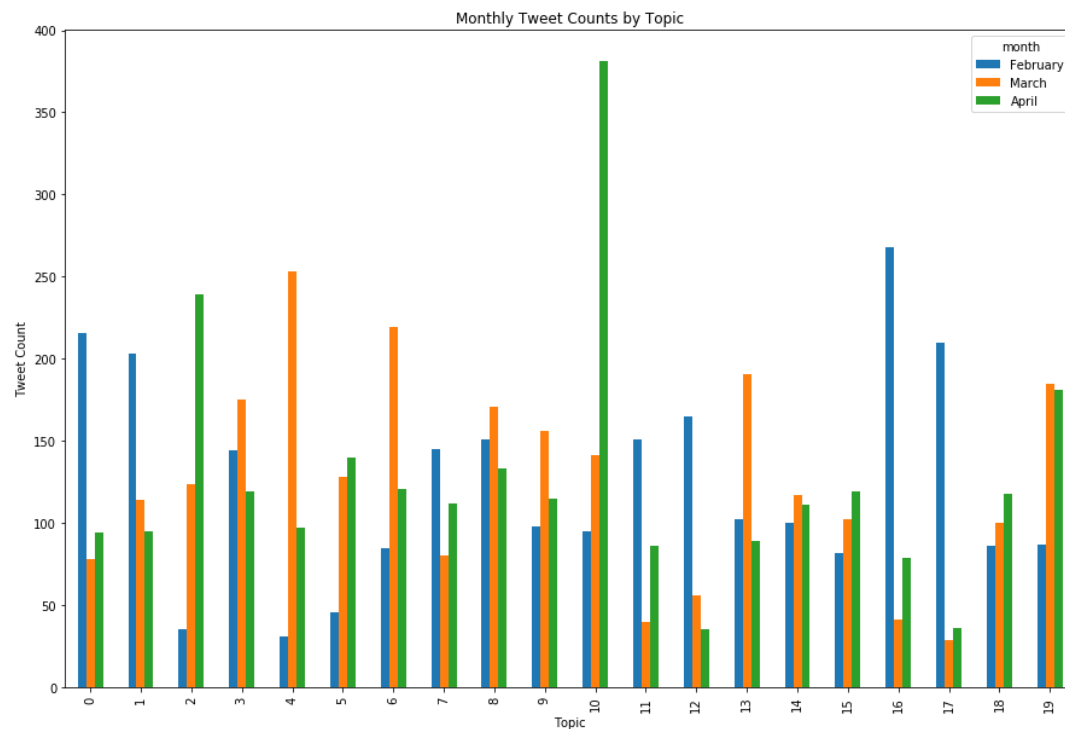
List of stop words:

'deadly', 'https', 'com', 'monday', 'tuesday', 'wednesday', 'thursday', 'friday', 'saturday', 'frightening', 'yall', 'aint', 'tldr', 'thread', 'imo', 'says', 'said', 'like', 'www', 'http', 'amp', '000', 'bit', 'ly'

TASK 2&3:



TASK 4:



TASK 5:

For February, the topic with a majority was topic 16, consisting of the words: 'coronavirus', 'wuhan', 'china', 'people', 'chinese', 'novel', 'outbreak', 'hubei', 'province', 'amid', 'country', 'communist'. A semantic meaning based on these words would be "Coronavirus Outbreak in China." The results makes sense in this case as in February the virus was a relatively new topic that people recognized as originating from China, but as the months went on more people were focused on the pandemic as it relates to other things outside of its origin.

For March, the topic with a majority was topic 4, consisting of the words: 'coronavirus', 'just', 'white', 'positive', 'trump', 'negative', 'breaking', 'house', 'tested', 'tests', 'test', 'president'. A semantic meaning based on these words would be "Testing for the Coronavirus." The results makes sense in this case as in February, though there would be a number of tweets under this topic, when it became classified as a pandemic in March and people recognized how much it spread, the topic would be more pertinent to them, and therefore have a majority then.

For April, the topic with a majority was topic 10, consisting of the words: 'fight', 'twitter', 'people', 'just', 'virus', 'world', 'shit', 'pic', 'corona', 'really', 'stop', 'fuck'. A semantic meaning based on these words would be "General Discontent regarding Coronavirus." The results makes sense in this case as, though it was at the highest in April, since February this topic rose to be the majority.

A topic that seems to be of equal importance in all three months is topic 8, consisting of the words: 'coronavirus', '19', 'covid', 'new', 'deaths', 'cases', 'confirmed', 'news', 'state', 'breaking', 'case', 'update'. A semantic meaning based on these words would be "News about the Coronavirus." The results make sense in this case as tweets detailing the ongoing situation regarding the Coronavirus should be in about equal amounts given that reporting on the pandemic has been arriving as it updates throughout the time it has been occurring.