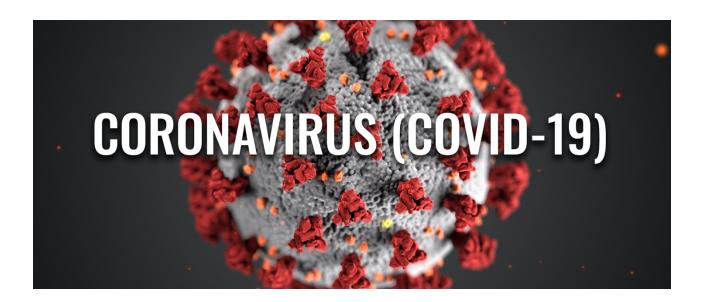
Safety During COVID-19

Jose Hernandez April 2020



Introduction

When the first instances of people contracting the corona virus emerged, I like many other of my friends, family members and colleges dismissed the seriousness of its danger and how unlikely it was to last any longer than a couple news cycles. Yet, as late January and early February rolled around, I started to retract my initial thoughts and after hearing and watching the damage it has done to the people of Italy. Then soon have the U.S to be under quarantine, my university transfer my classes online, and furloughed from my current position. I definitely underestimated the impact and seriousness of COVID-19 and I wondered how many others thought the same as me. I decided to construct a small survey composed of 6 questions on information relating to COVID-19 and Social Distancing.

Overview

I asked 6 questions: 1) "How do you stay informed on COVID-19?", 2) "How frequently do you wash your hands?", 3) "When you leave your home, do you wear a mask?", 4) "How frequently do you leave your home for necessities? (Groceries, supplies, work, etc.)", 5) "Do you practice Social Distancing?", 6) "Do you live in a known COVID-19 hotspot?".

Once I finished constructing this survey I wanted to be as random as possible when distributing this survey. I choose Facebook as my main distribution tool. I wanted most of my responses to come from people in the U.S and being that 90% of my friends are in the U.S, this was the best option. I had also messaged the survey to about 30 friend and family members that had also forwarded it. (All of which reside in a different state from another) After about three days of having the survey live, I had a *random sample* of over 338 total responses. (I removed some of the responses when cleaning the data)

Tools

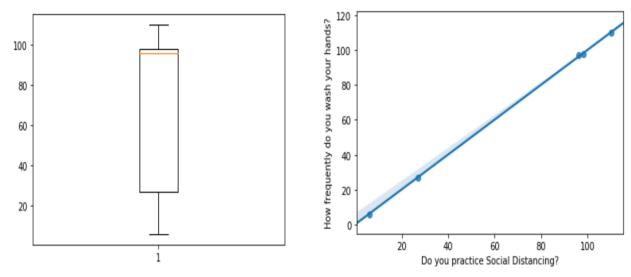
- Jupyter Notebook
- Microsoft Excel
- Microsoft Sheets
- Python (Programming Language)

Goal

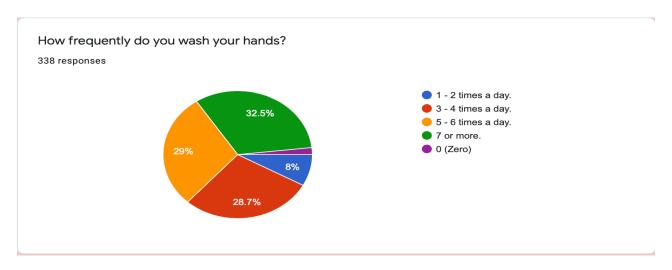
- Plot and map out results.
- Understand and interpret how serious people are following social distancing.
- Where most of the sample is obtaining their information on COVID-19.
- Is there a strong correlation with people washing their hands, wearing a mask and following social distancing guidelines?

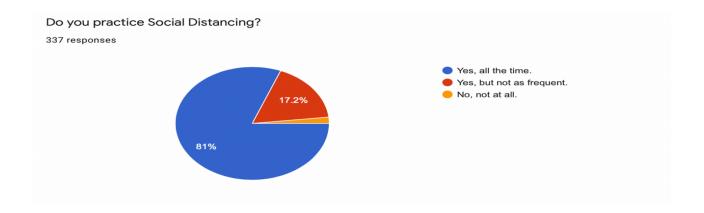
Graphics

The first thing I decided to observe was the frequency at which people washed their hands a day vs if they practiced social distancing or not. After observing the data the sample recorded that: 110 people that said they practice social distancing and wash their hands 7 or more times a day, 98 people that said they practice social distancing and wash their hands 5-6 times a day, 96 people that said they practice social distancing and wash their hands 3-4 times a day, 27 people that said that they practice social distancing and frequently wash their hands 1-2 times a day, and 6 people that said they do not practice social distancing or wash their hands.

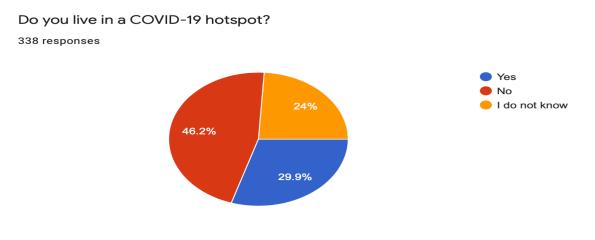


I was indeed thrilled to see that from the data at least 90% of the sample washes their hands at least 3 times a day and also follows some sort of social distancing.





Next, I wanted to observe the frequency of people leaving their homes per week vs if they know that they live in a known COVID-19 hotspot. Other than observing that almost half of the sample did not live near a COVID-19 hotspot, this is related to the amount of times people of the sample have left their homes. 181 people said they leave their homes just about 1-2 times a week. There is a strong indication that the 24% of the sample that doesn't know whether they live in a known COVID-19 hotspot actually do live in a designated hotspot. This assumption comes from how serious the precautions their county/state has taken and restricted travel or they in fact do not leave the house that often through out the week



How frequently do you leave your home for necessities? (Groceries, supplies, work, etc.)

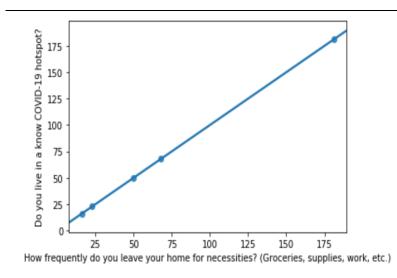
Do you live in a know COVID-19 hotspot?

l do not know	81
No	156
Yes	101

How frequently do you leave your home for necessities? (Groceries, supplies, work, etc.)

How frequently do you leave your home for necessities? (Groceries, supplies, work, etc.)

1 - 2 times a week.	181
3 - 4 times a week.	50
5 - 6 times a week.	23
7 or more.	16
I don't leave the house.	68



CORONAVIRUS (COVID-19)

Questions



Total points: 0

Send

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Form description

How do you stay informed on COVID-19? Social Media (Facebook, Twitter, etc.)



Television News (CNN, FOX, MSNBC, etc.)



Friends & Family

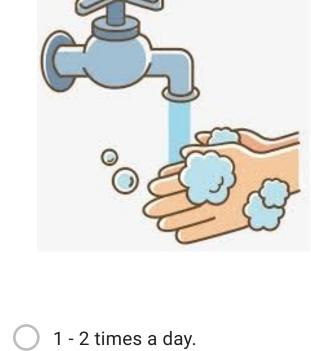


I do not stay much informed





How frequently do you wash your hands?



- 3 4 times a day.
- 5 6 times a day.
- 7 or more.

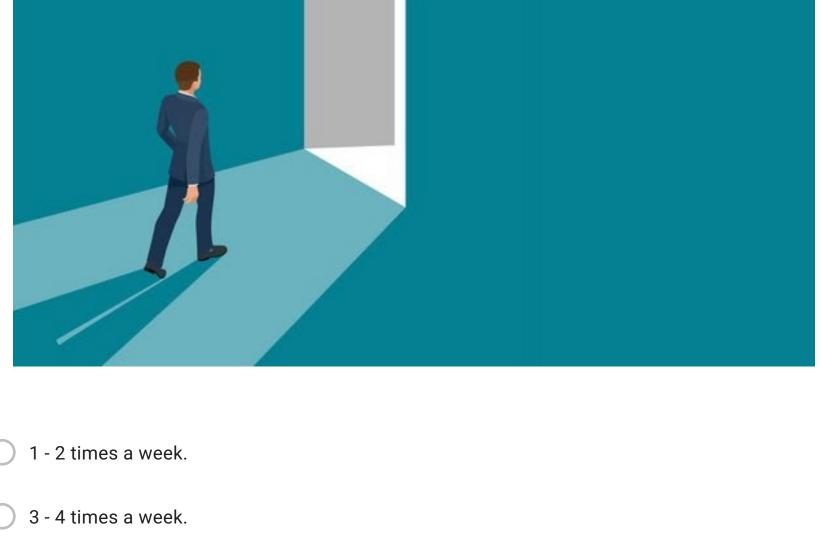
0 (Zero)

When you leave your home, do you wear a mask?



- I leave with my mask ON, but have it OFF when I return home. I leave with my mask OFF, but have it ON when I return home.
- I only wear a mask when entering a public place.
- I don't wear a mask.

How frequently do you leave your home for necessities? (Groceries, supplies, work, etc.)



7 or more.

5 - 6 times a week.

I don't leave the house.

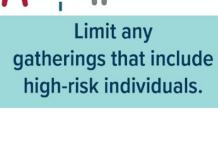
Do you practice Social Distancing?

What does this mean?

Practice Social Distancing.







- Yes, but not as frequent.
- No, not at all.

Yes, all the time.

Yes

No

Do you live in a COVID-19 hotspot?

I do not know

