INF352 Interpretation Assignment Jana Anani, Alan Bui, Venkat Ravulparthi, Elysia Te, Bill Than INF352 Information Design Studio II: How to Design Dr Olivier St-Cyr October 25, 2020

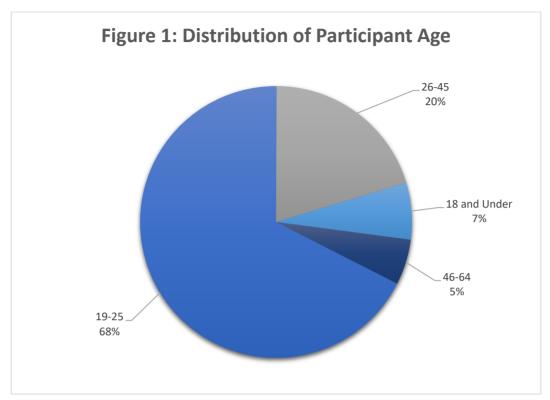
Data Analyses

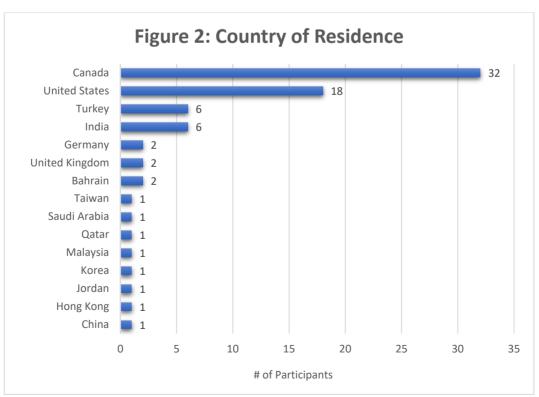
Data Clean-up and Modification

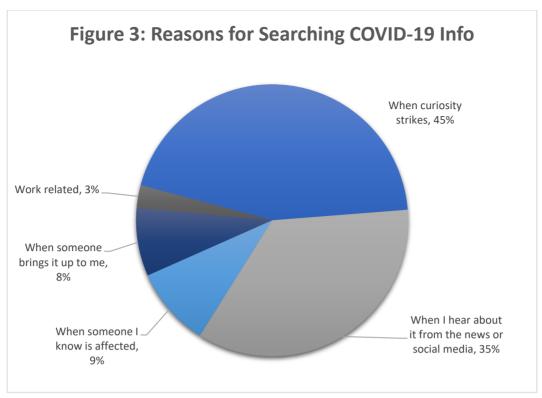
Survey results were exported into a CSV file and edited and analysed in Excel. Data was preliminarily scanned and had any copies and other outliers removed. Copies were determined by similarity in the final question which was user input based. Any responses with finals answers that were identical, while also having the identical answers in other questions were removed bar one. One response was also removed due to the absurdity of the answers as the participant stated pigeons were the reason they received information from public health officials. For each question, further clean-up occurred for custom answers when sorting everything into categories. For example, two responses for "When are you most likely to search up information regarding COVID-19?" shared similarities and were grouped under the new category "Work-related". As the final question was completely user inputted, all answers were sorted in the same manner. Graphs were then made for each question based on the categories and displayed either in a pie chart or a bar graph. Central tendency measures were not calculated as the data was collected and categorised on a nominal scale.

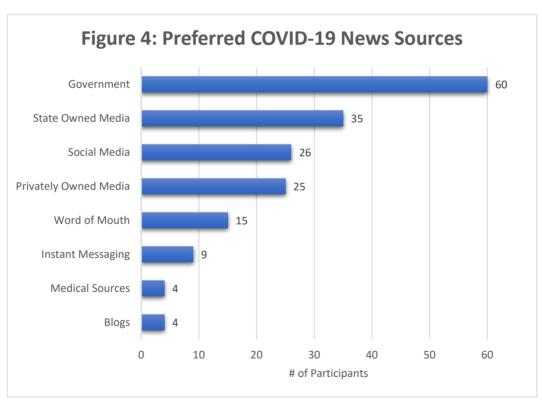
For interviews, each interviewer took notes based on the participant's responses. While the interviews were not recorded, notable quotes were written down verbatim. These notes were then further broken down into an affinity diagram and categorised based on six main themes: information accessibility on COVID-19, filtering COVID-19 misinformation, bias of COVID-19 related information, media impact on COVID-19, performance of public health officials, and expectations for COVID-19 information sources. Responses for each participant were also colour-coded. Square post notes were

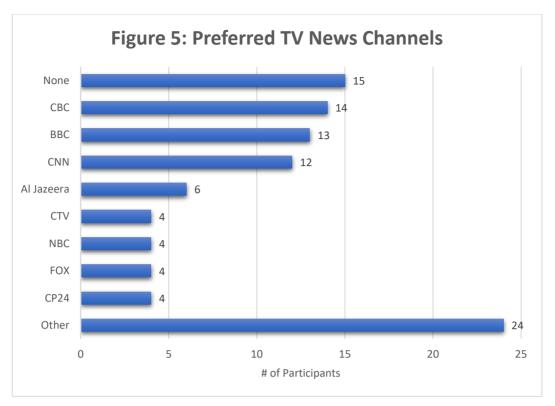
used to identify key statements with connected circular notes denoted as additional support or clarification.

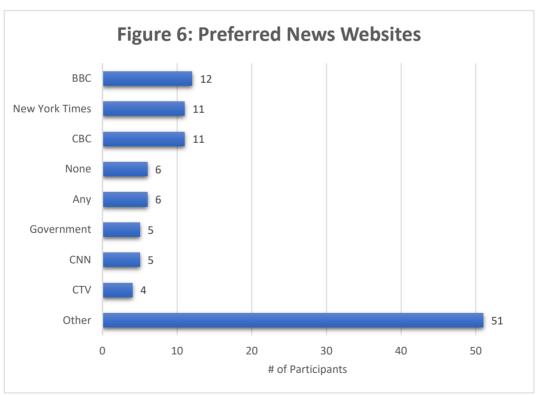


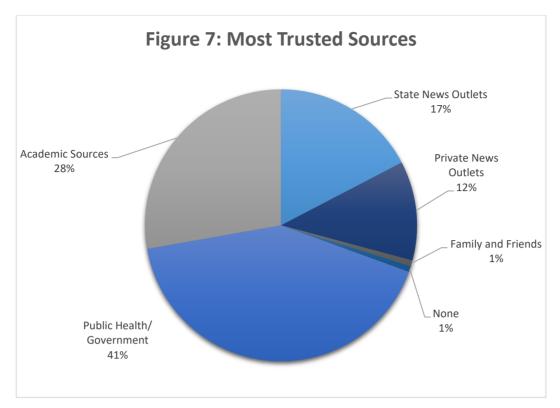


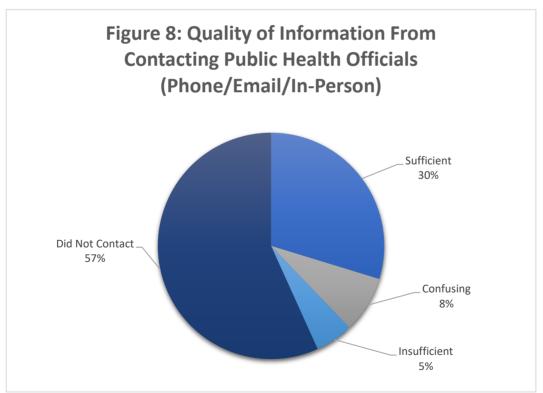


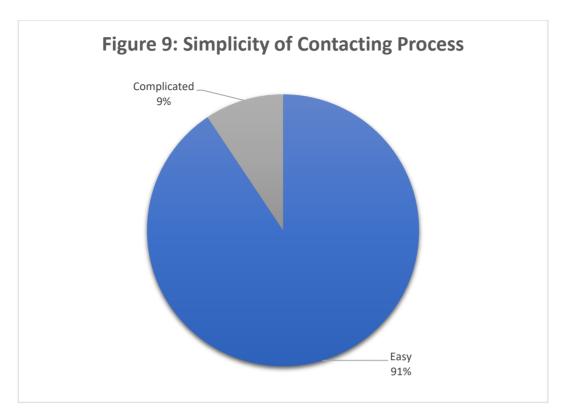


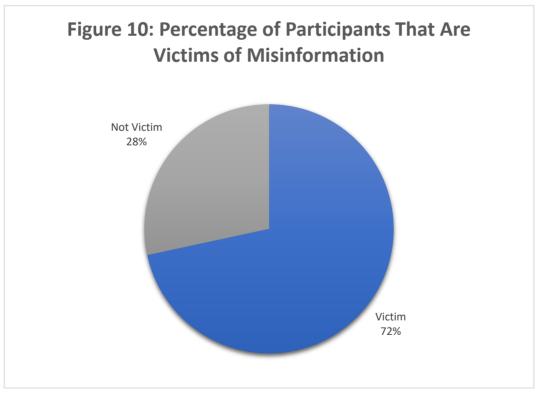


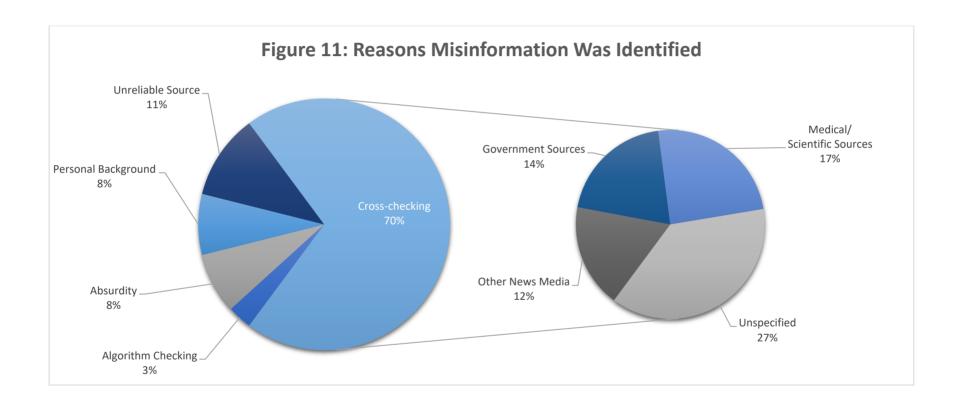












Summary of Findings

In our secondary research, studies found that COVID-19 information by public health officials is generally better at reporting guidelines than digital media sources, especially regarding mask-wearing protocols (Hernández-García & Giménez-Júlvez, 2020). Incorrect and misleading information was also present in over half of digital links. This supported our suggestion that COVID-19 misinformation exists, particularly in digital media. Correlation between infodemic keywords, especially on social media, and controversial statements was also reported (Rovetta & Bhagavathula, 2020), leading us to identify when misinformation is most prevalent. Another study found that high levels of frustration and political polarisation (between parties and people) are a direct result of COVID-19 related information/misinformation (Bolsover & Tokitsu Tizon, 2020). Our last source finds that over 800 people have died worldwide as a result of COVID-19 related misinformation (Coleman, 2020). This shows the real-life impact of COVID misinformation on people's lives.

Of the 93 survey responses we received, 91 passed the screening question, with 74 responses remaining after outliers were removed. The majority of participants fell in the 19-25 year age category (68%), followed by 26-45 (20%), with most residing in Canada or the U.S. This was expected as we distributed the survey amongst our peers. However, residency was distributed over a total of 15 different countries. Most participants identified news and social media as popular drivers for searching for COVID-19 information and preferred using government sources over all others. BBC, CBC, and CNN were the preferred TV news channels of choice, though some identified that they did not watch any. BBC, CBC, and the New York Times were popular online sources. In Figures 5 and 6, the count for the "Other" category is due to a large number of foreign

sources, but the recorded number for individual sources did not go over 3. In terms of trustworthiness, most identified public health or government sources first (41%), with academic sources second (28%). Most participants report not contacting public health officials, but those that did reported that it was an easy process that provided sufficient data. 72% of participants report COVID-19 misinformation and most verified information by cross-referencing sources.

In our interviews, Participants 1, 2, 3, 4, 6, 8, 9, and 10 agreed that misleading, false, or biased information about COVID-19 exists (see Appendix C of Discovery Assignment, Question 5). Aside from Participant 9, each Participant reported conducting additional research. This further confirms that there are many sources of misleading COVID-19 information. Secondly, Participants 1, 3, 4, 5, 7 reported using social media sources to keep up-to-date (see Question 2), which should be kept in mind given what we learned from when and where misinformation is prevalent. Participants 1, 2, 4, 5, 6, 7, 8 reported COVID-19 information related to politics, such as differences between countries, inconsistencies, and information distribution (see Questions 2, 5, 7, 9), coinciding with the findings from Bolsover and Tokitsu Tizon. Lastly, Participants 6 and 8 have reported real-life problems related to COVID-related misinformation (see Questions 5, and 7), similar to what was reported by Coleman.

In total, six themes were identified, with the help of an affinity diagram. The first theme was Information Accessibility, found in Questions 1, 2, and 3 (see Appendix B). Participants generally agreed that information on COVID-19 was accessible. The second theme was Filtering Misinformation and Adaptation, found in Questions 5, 9, and 10. Most participants have reported fact-checking and using unbiased sources. The third theme was an Expectation of Information sources, found in Question 11. Participants

suggested options that would help better information sources. The fourth theme identified was Media, found in Questions 1, 2, 3, and 8. This reflected how the media portrayed COVID-19 during the pandemic. The fifth theme related to Biased Information, found in Questions 5, 6, and 7. Participants agreed that credible, and non-political sources have less bias. Lastly, the sixth theme was Public Official Performance, found in Question 7. Many participants agreed that not all public health officials have handled the pandemic well.



COVID-19 Misinformation



Information Accessibility on COVID-19 Filtering COVID-19 MisInformation and Adaptation Expectations of COVID-19 Information Sources

Politics play Started off Easy to find, Information Localized very fast, now a role in accessible not always information more slow information as always credible is sufficient and accurate accesibility More Will become Information Information nformation accessible accessible accessible accessible accessible as as time goes as always as always as always cases rise on

Some Information is Different Media runs Local news platforms are not readership, politics of generally nore political omprehensiv not accuracy newsources better (ex: flights) (twitter) Fact Uses least Fact Satisfactory checkina biased checkina helps source helps

More A reference Easy to More Universal credible follow stats localized, quide of "FAQ" for research, immediate credible and with clear information diagrams information sources plans Interactive More Government transparency maps to Government specific Symptoms with plan show transparency localized and facilities updates hotspots information

Media on COVID-19

Interest More fact Hard to keep up, Click bait usually checking and headlines accuracy now piques from everyday than before social media The media shapes how Hard to keep up, Media is Depressing, we percieve new information ensationalist due to cases the everyday pandemic

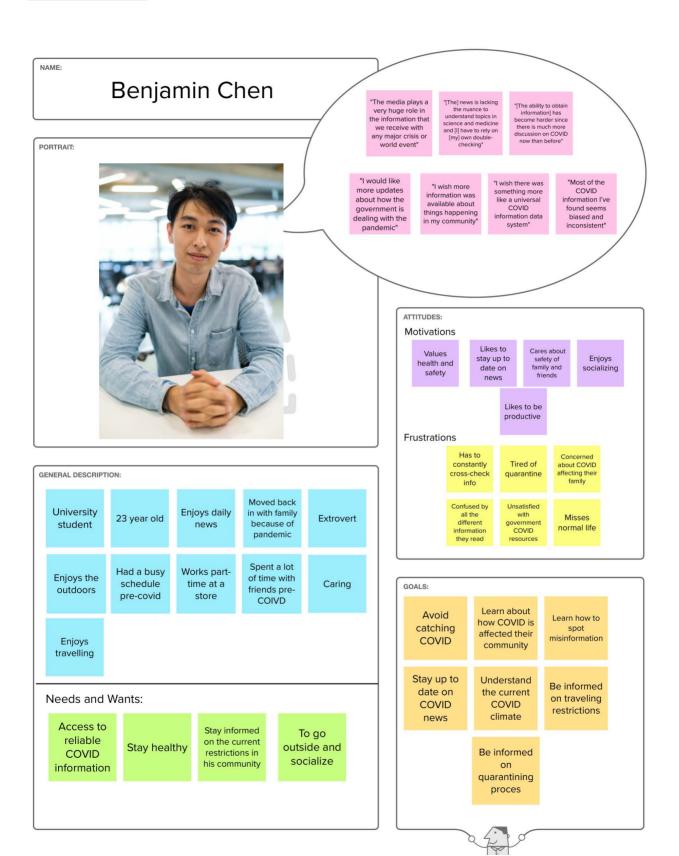
Bias of COVID-19 related Information

Cross-Relying on Sometimes Fact **Believes** referencina known sense of checking social media credible different what seems too much helps sources persons wrong Avoids socia Fact ooks at only Fact Fact media, uses checking checking checking relevant credible helps helps helps sources sources Localized Politics are information always is much involved more biased

Public Officials' Performance on COVID-19

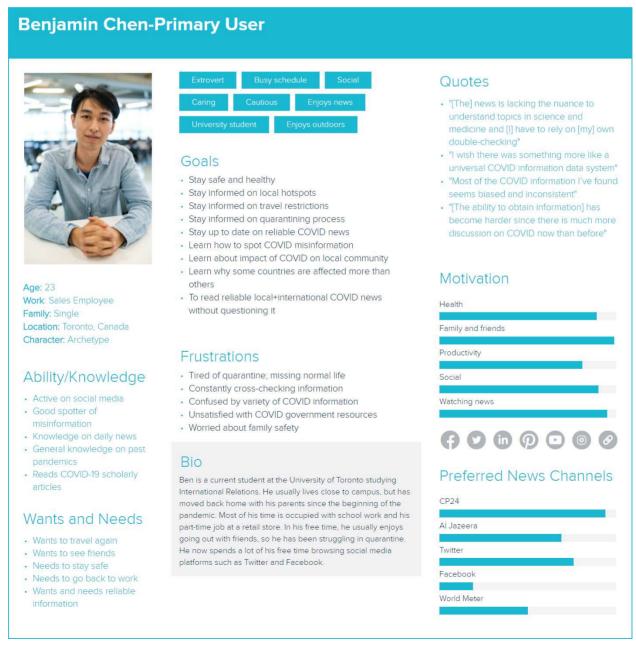
Different cities maps are better than others	Guidelines can be confusing	There should be more unbiased sources	Politics play a huge role in the effectiveness of the information
Public health	Some	Some	Some
should be	countries are	countries are	politicians are
enacting	doing better	doing better	doing better
COVID laws	than others	than others	than others
Public health	There were	Some	COVID
informing	daily	provinces are	testing
enough but	updates on	doing better	facilities are
not enforcing	the news	than others	great

Proto-Persona



Persona

We created our persona Benjamin Chen to represent our established primary user based on our primary research findings. We concluded that a typical user of our future solution is someone who wants to stay informed about COVID-related news and is frustrated by the biased and convoluted nature of the existing sources. In addition to the user's goals and pain points, we included notable statements from our interviews to further emphasize these motivations. This persona serves as a guide for the decision-making throughout our design process.



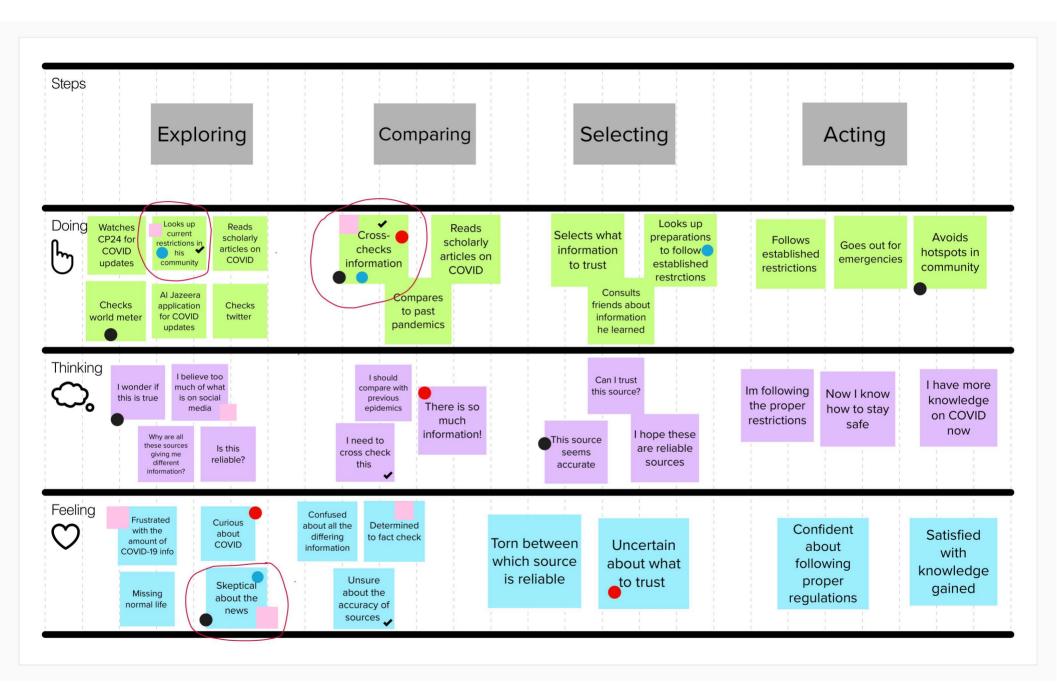
Empathy Map

To develop a holistic view of the user, we created an empathy map that outlines the user's sayings, thoughts, actions, and feelings. Each aspect was based on evidence from our primary research findings and our existing user persona. The map provides us with an overall better understanding of the user and helps us to better outline our user's journey.



As-Is Scenario

We created an As-Is Scenario to outline our user's current journey of finding COVID-related information. Based on our empathy map and primary data findings, we established the main steps of the user's current journey: 1) Exploring, 2) Comparing, 3) Selecting, and 4) Acting. Within these steps, we ideated potential activities that might occur, such as checking different media platforms in the exploring step, and included the user's thought process and emotional journey to gain a better understanding of the user's journey. Once we finalized our As-Is Scenario, we conducted dot voting which helped us conclude that the main areas of design opportunity are cross-checking information, looking up current community restrictions, and skepticism about the news.



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