**Metaphor Misinformation Tweets Study**

1. Generate a table containing top 20 words (separately metaphor and misinformation) with highest frequency for each week.

Note the frequency (*f*) for each word

Arrange each week by highest to lowest frequency

For example:

Metaphor:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Week1 | Week2 |  |  |  | Week52 |
| 1. Battle (*f*)  2. Won (*f*)  3. Hostile (*f*)  4. Death (*f*)  … | 1. Death (*f*)  2. Arm (*f*)  3. Enemy (*f*)  4. Die (*f*)  … |  |  |  | 1. Bombard (*f*)  2. Death (*f*)  3. Army (*f*)  4. Weapon (*f*)  … |

 Misinformation:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Week1 | Week2 |  |  |  | Week52 |
| 1. 5G (*f*)  2. Lab (*f*)  3. Hoax (*f*)  4. Radiation (*f*)  … | 1. 5G (*f*)  2. Lab (*f*)  3. Antibiotic (*f*)  4. Hoax (*f*)  ... |  |  |  | 1. Microchip (*f*)  2. Lab (*f*)  3. Hoax (*f*)  4. Radiation (*f*)  … |

2. Generate a table containing the similarity scores between Covid-19 and the top 20 highest frequency words (separately metaphor and misinformation).

Note the similarity score for each Covid-word pair.

For example:

Metaphor:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Week1 | Week2 |  |  |  | Week52 |
| 1. Covid-Battle (.56)  2. Covid-Won (.28)  3. Covid-Hostile (.43)  4. Covid-Death (.39)  … | 1. Covid-Death (.xx)  2. Covid-Arm (.xx)  3. Covid-Enemy (.xx)  4. Covid-Die (.xx)  … |  |  |  | 1. Covid-Bombard (.xx)  2. Covid-Death (.xx)  3. Covid-Army (.xx)  4. Covid-Weapon (.xx)  … |

 Misinformation:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Week1 | Week2 |  |  |  | Week52 |
| 1. Covid-5G (.13)  2. Covid-Lab (.15)  3. Covid-Hoax (.23)  4. Covid-Radiation (.07)  … | 1. Covid-5G (.xx)  2. Covid-Lab (.xx)  3. Covid-Antibiotic (.xx)  4. Covid-Hoax (.xx)  ... |  |  |  | 1. Covid-Microchip (.xx)  2. Covid-Lab (.xx)  3. Covid-Hoax (.xx)  4. Covid-Radiation (.xx)  … |

3. Generate a table containing the similarity scores among the words (separately metaphor and misinformation).

Choose only the top 5 words that have the highest similarity score with Covid.

Note the similarity score for each word pair.

For example (example shows the top 3 from Table 2 are chosen: .56, .43, .39 for metaphor; .23, .15, .13 for misinformation):

Metaphor:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Week1 | Week2 |  |  |  | Week52 |
| 1. Battle-Hostile (.71)  2. Battle-Death (.49)  3. Hostile-Death (.45)  … |  |  |  |  |  |

 Misinformation:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Week1 | Week2 |  |  |  | Week52 |
| 1. Hoax-Lab (.54)  2. Hoax-5G (.43)  3. Lab-5G (.27)  … |  |  |  |  |  |

4. Generate a table containing the similarity scores among the metaphor and misinformation words.

Choose the top 5 words that have the highest similarity score with Covid that were used in Table 3

Note the similarity score for each pair

For example:

Metaphor and Misinformation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Week1 | Week2 |  |  |  | Week52 |
| 1. Battle-Hoax (.11)  2. Battle-Lab (.19)  3. Battle-5G (.05)  4. Hostile-Hoax (.02)  5. Hostile-Lab (.00)  6. Hostile-5G (.01)  … |  |  |  |  |  |

5. Also generate figures using the data in the tables. But first let’s see what the tables say and then we can finalize the figures.