

Community Analysis: Graphs of Top 100 Words by Frequency from Prominent Twitter Users

Alex Nazareth

Ryerson University

Gephi Procedure



- **ForceAtlas2** layout algorithm settings (run until it appears to settle)
 - *Scaling* = 10 and *Gravity* = 20
 - *Dissuade Hubs* = true
 - *LinLog mode* = true
 - *Prevent Overlap* = true (only briefly at the end for performance reasons)
 - Remaining settings left as default
- Calculate modularity statistic and partition node colours
- Set node size based on degree
- Add node labels
- Run **LabelAdjust**, along with some manual visual tweaks

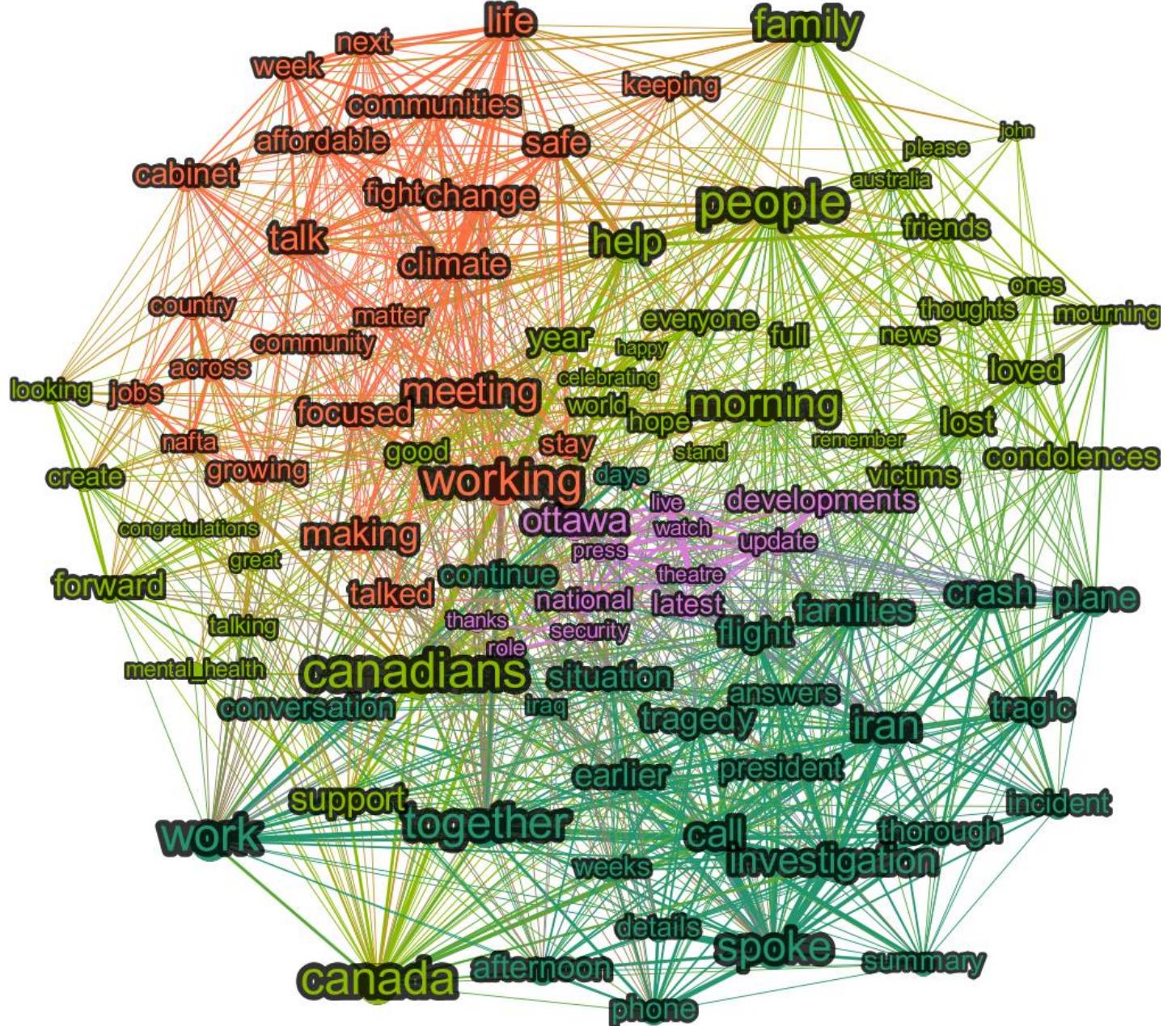


@JustinTrudeau
January 2020

J F M A M +

Potential Community Meanings

- Orange
 - Policy
- Lime green
 - Positive support
- Dark green
 - Tragedies (Iran plane incident)
 - Investigation progress
- Pink
 - Updates/news
 - National security



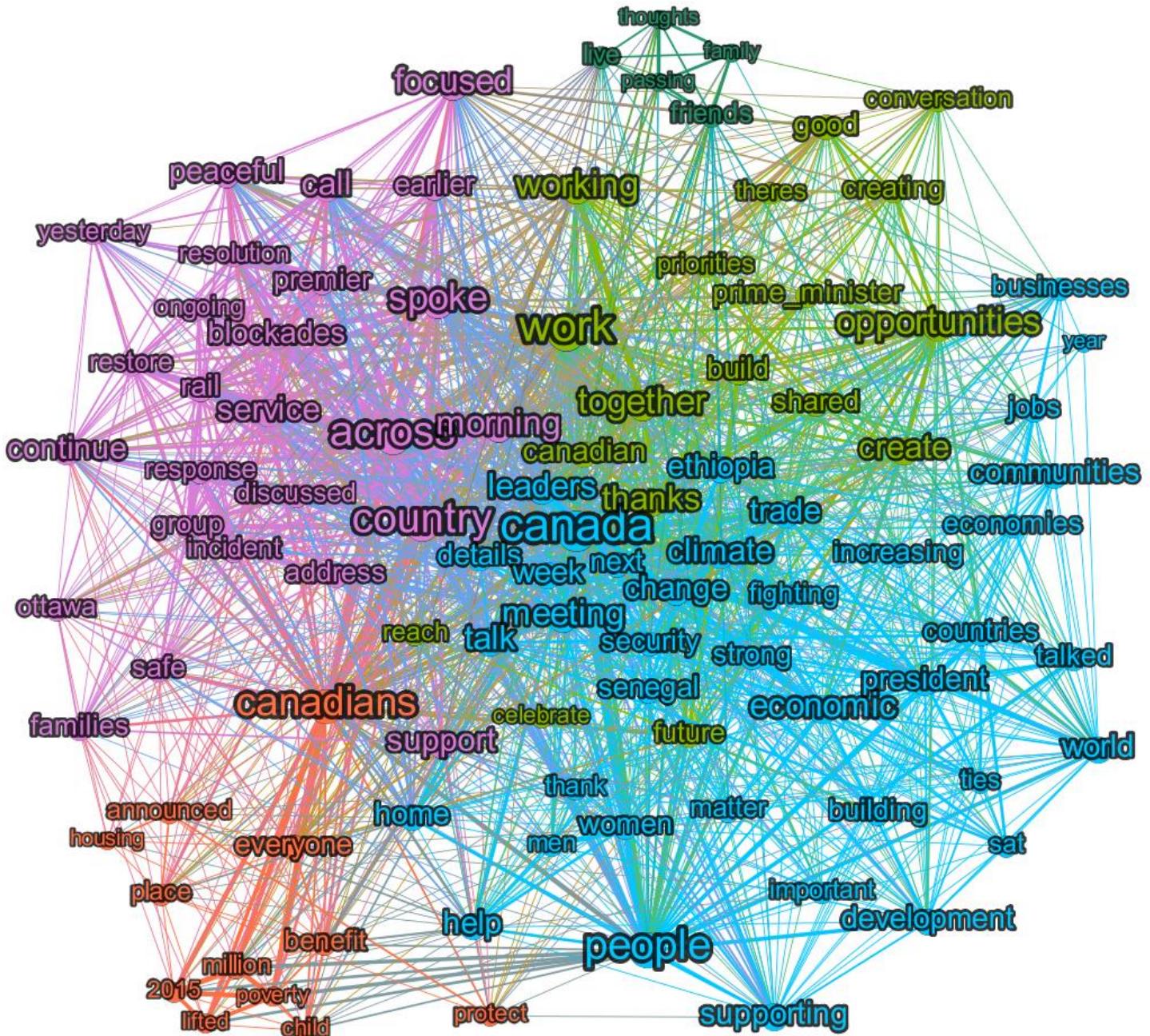


@JustinTrudeau
February 2020

J F M A M +

Potential Community Meanings

- Orange
 - Canada Child Benefit
 - Campaign promise to reduce child poverty
- Lime green
 - Policy
- Dark green
 - Condolences for recent deaths
- Blue
 - Visit to Ethiopia
- Pink
 - Coastal GasLink pipeline protests

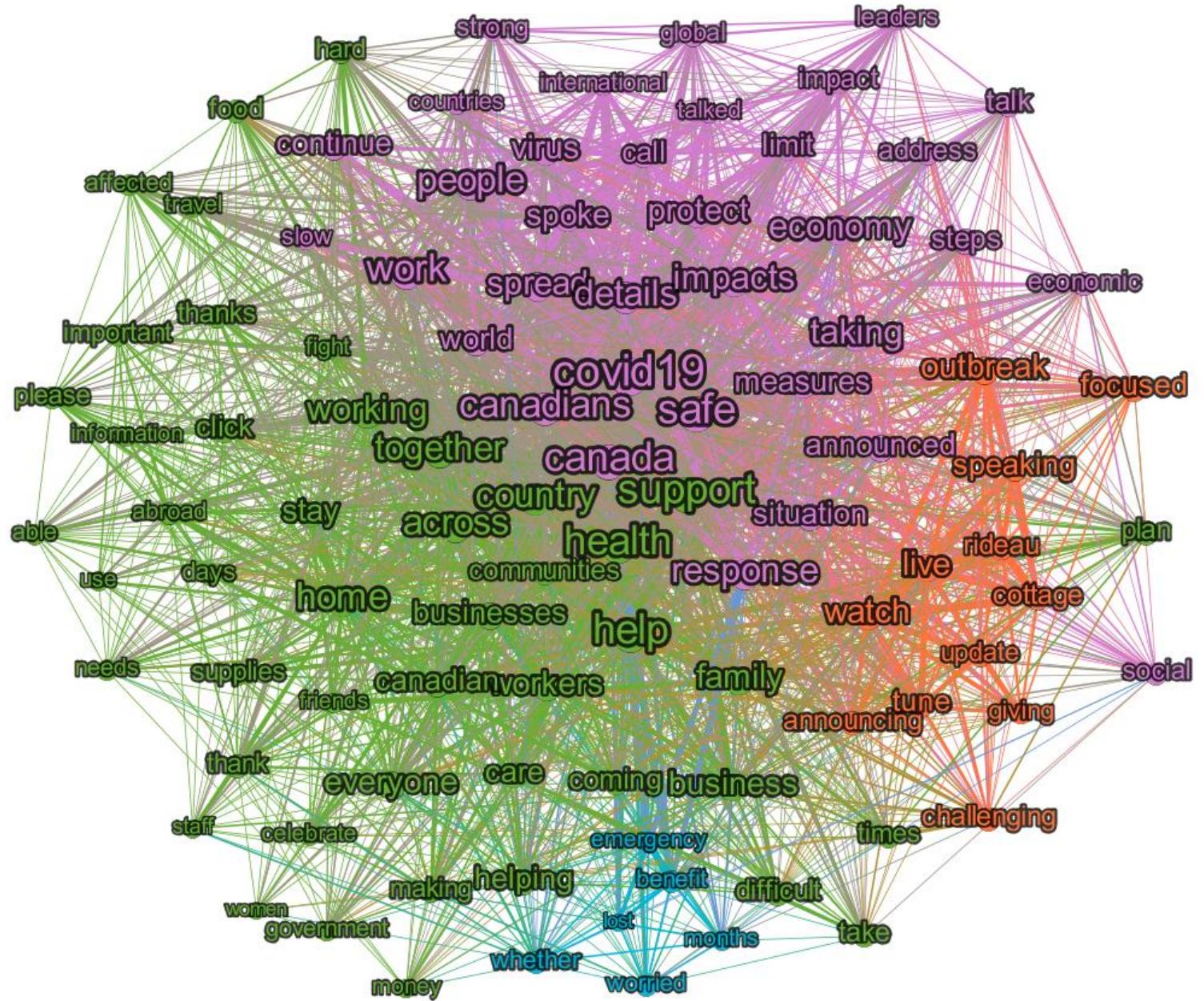




@JustinTrudeau
March 2020

A horizontal sequence of six circles connected by blue lines. The circles are labeled J, F, M, A, M, and + from left to right.

- Orange
 - COVID updates from Rideau Cottage
 - Lime green
 - Encouragement
 - Blue
 - Lost income relief measures
 - Pink
 - COVID measures



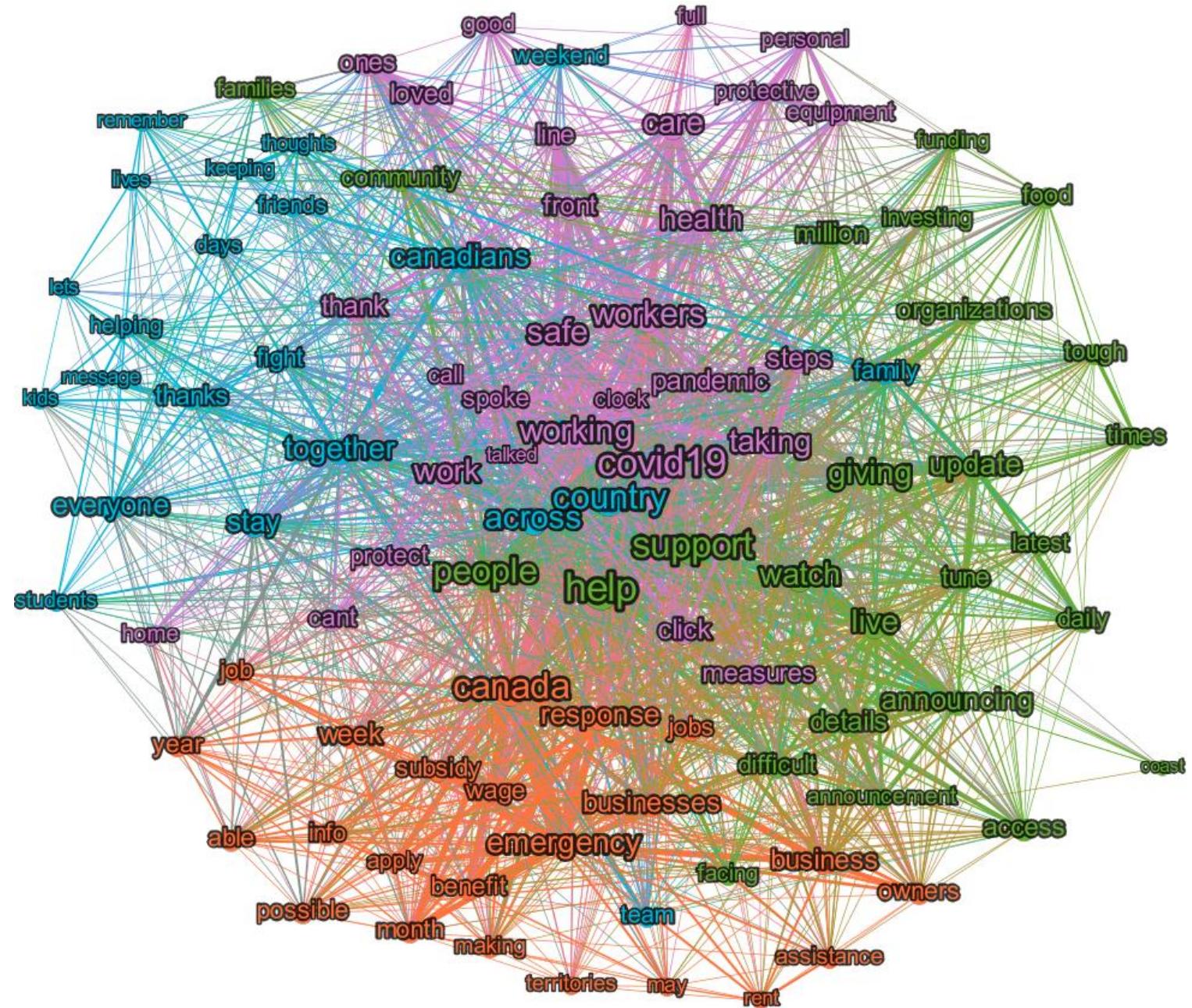


@JustinTrudeau
April 2020

J F M A M +

Potential Community Meanings

- Orange
 - Economic relief measures (CERB etc)
- Lime green
 - COVID morning updates
- Blue
 - Encouragement
- Pink
 - COVID general healthcare updates

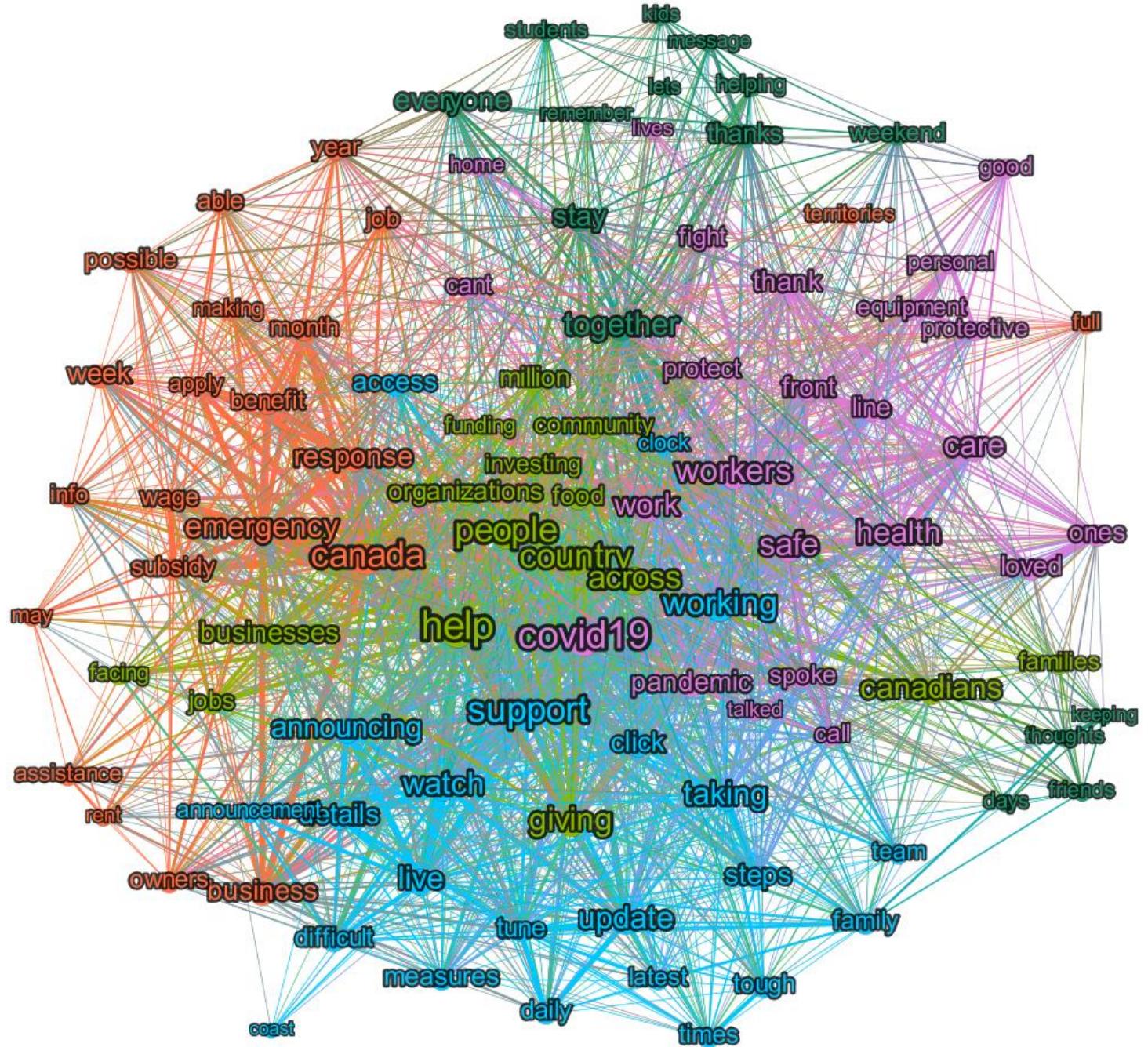




@JustinTrudeau
May 2020

The diagram consists of five circular nodes arranged horizontally. From left to right, the nodes are labeled J, F, M, A, and M. Each node is connected to its immediate neighbors by straight horizontal lines, forming a chain-like structure.

- Orange
 - Economic relief measures (CERB etc)
 - Lime green
 - Policy
 - Blue
 - COVID morning updates
 - Pink
 - COVID general healthcare updates

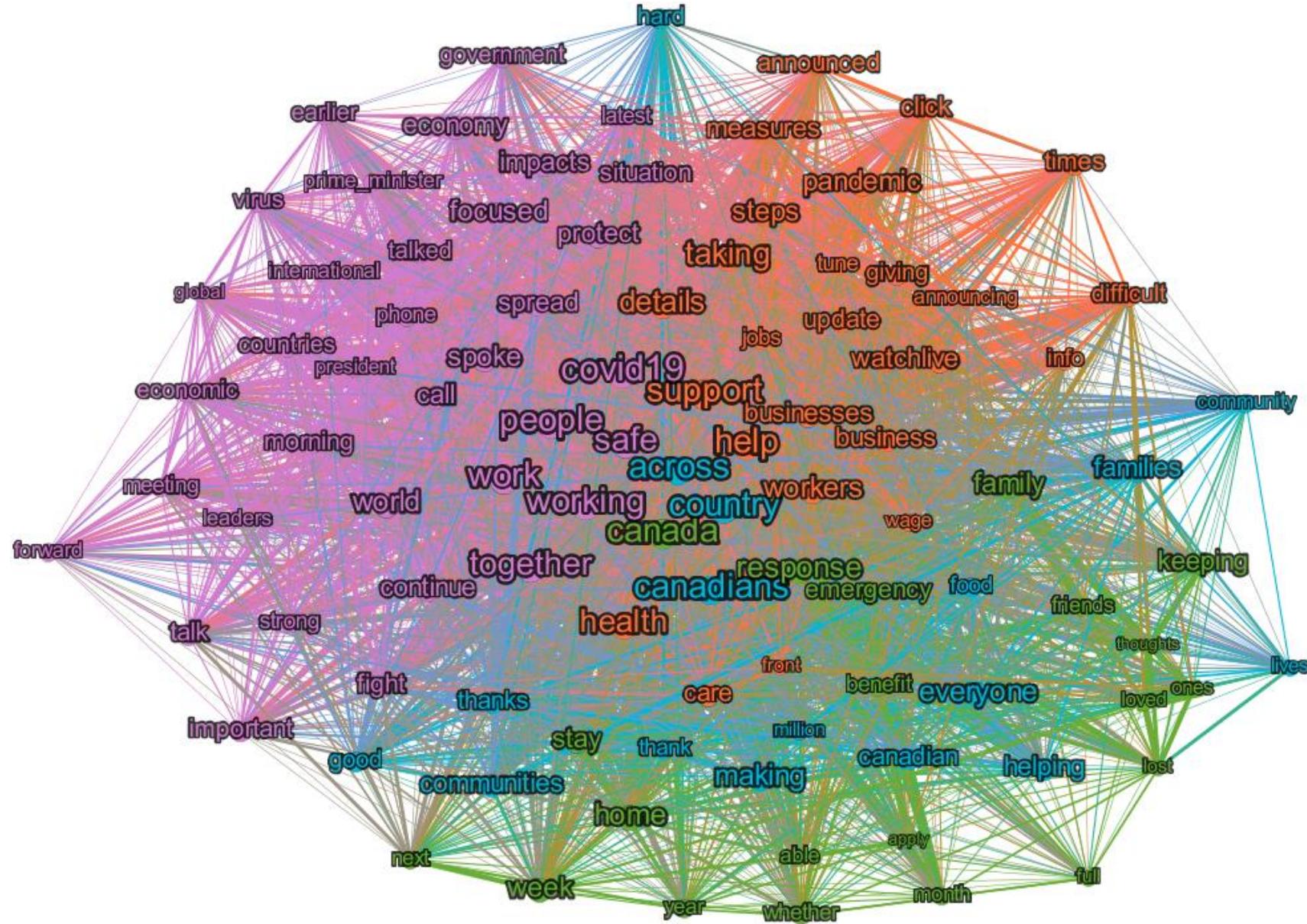




@JustinTrudeau
May YTD 2020

The diagram consists of five circular nodes arranged horizontally. From left to right, the nodes are labeled J, F, M, A, and M. Each node is connected to its immediate neighbors by straight horizontal lines, forming a chain-like structure.

- Orange
 - COVID daily updates
 - Lime green
 - Help
 - Blue
 - Encouragement
 - Pink
 - Work he is doing

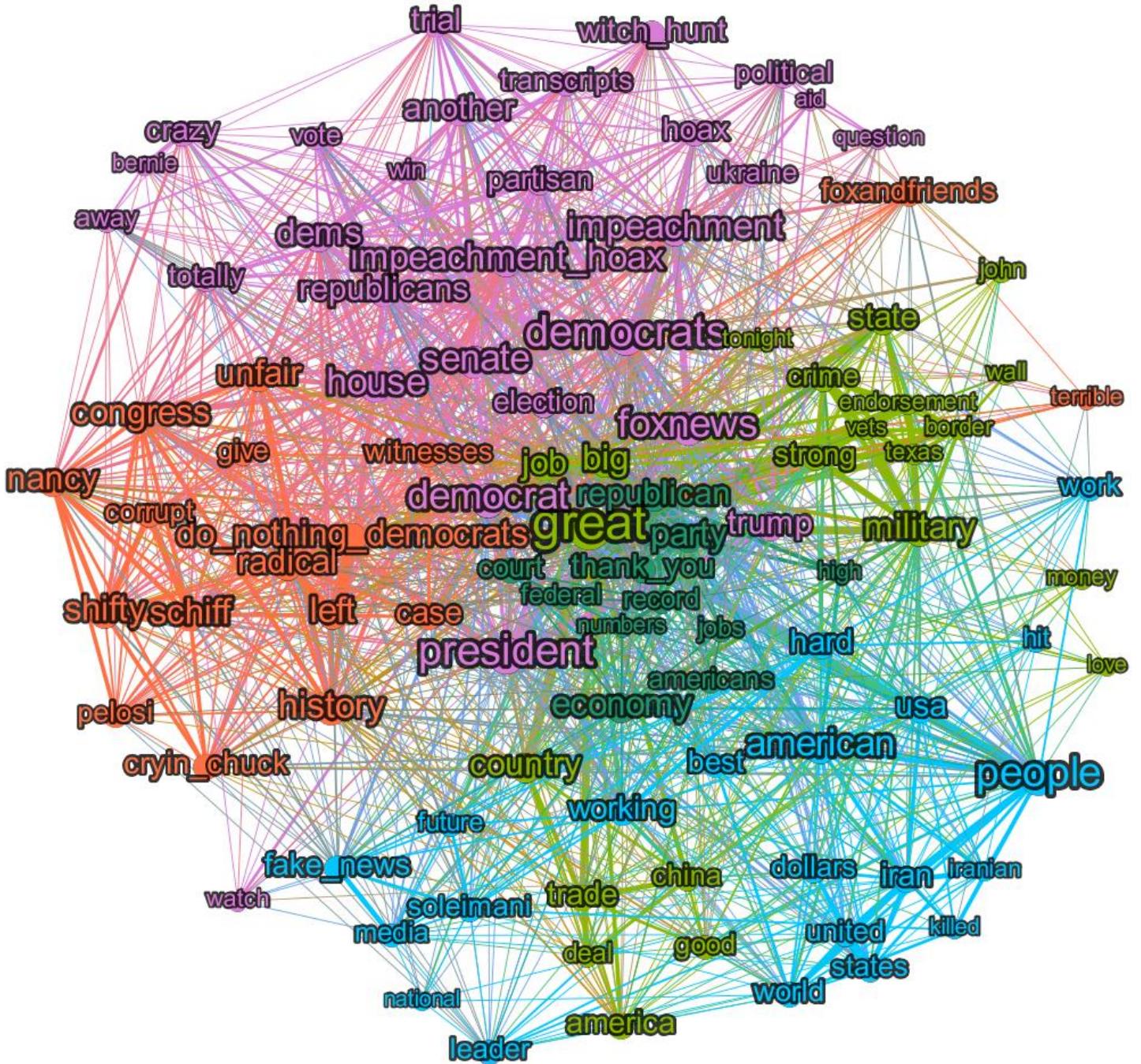




@realDonaldTrump
January 2020

```
graph LR; J((J)) --- F((F)); F --- M1((M)); M1 --- A((A)); A --- M2((M))
```

- Orange
 - Perceived democrat scheming
 - Lime green
 - Applauding China for their transparency and success at containing COVID-19
 - Supporting Republican representatives
 - Dark green
 - Jobs/economy
 - Blue
 - Soleimani assassination
 - Pink
 - Impeachment



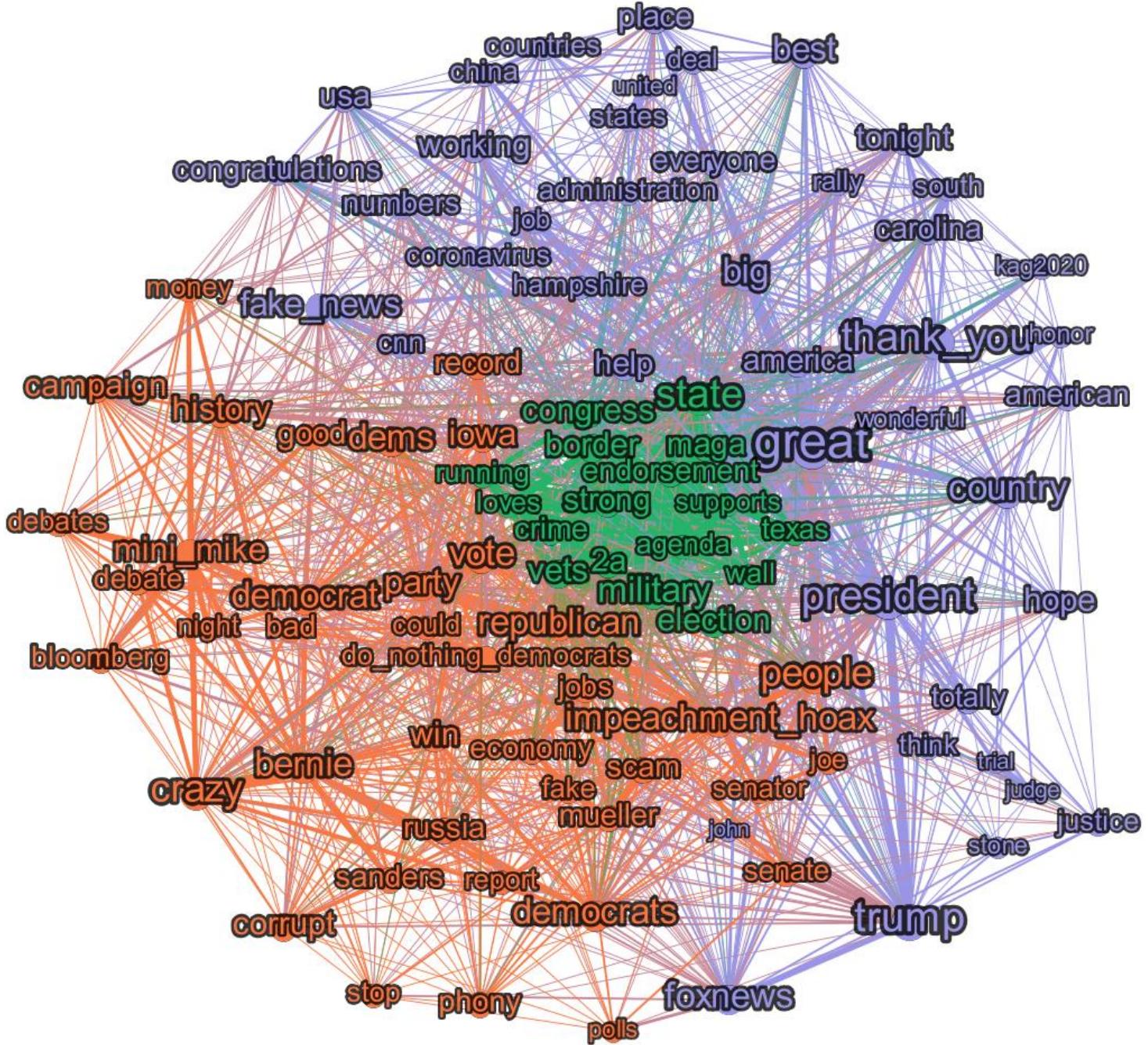


@realDonaldTrump
February 2020

J F M A M +

Potential Community Meanings

- Orange
 - Perceived democrat scheming
 - Democratic primaries
- Green
 - Strength/republican values
- Lavender
 - Republican primaries

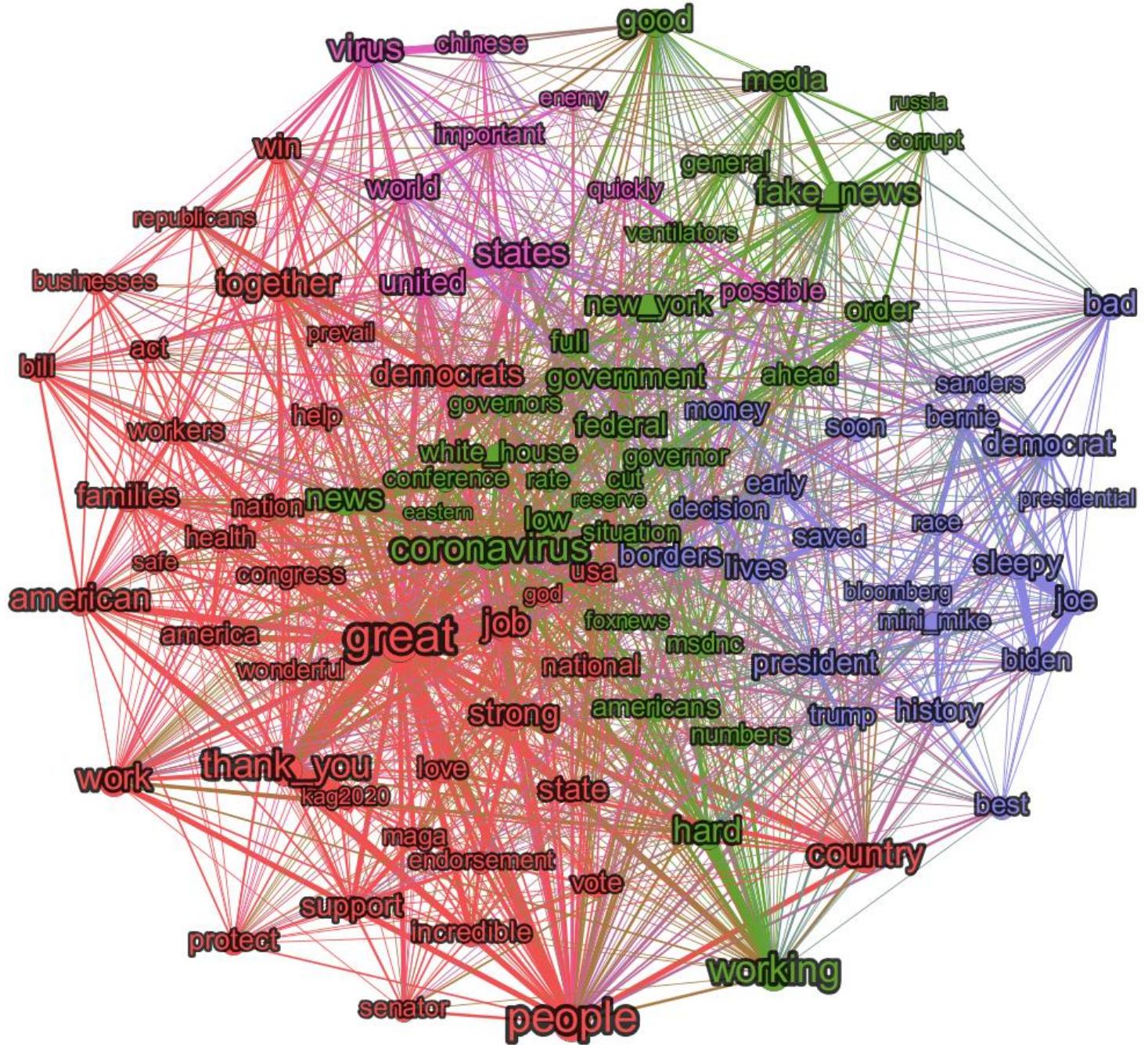




@realDonaldTrump
March 2020

A horizontal blue line with six circular nodes labeled J, F, M, A, M, and + from left to right.

- Red
 - Primaries
 - Green
 - COVID-19
 - Media
 - Lavender
 - Democrats



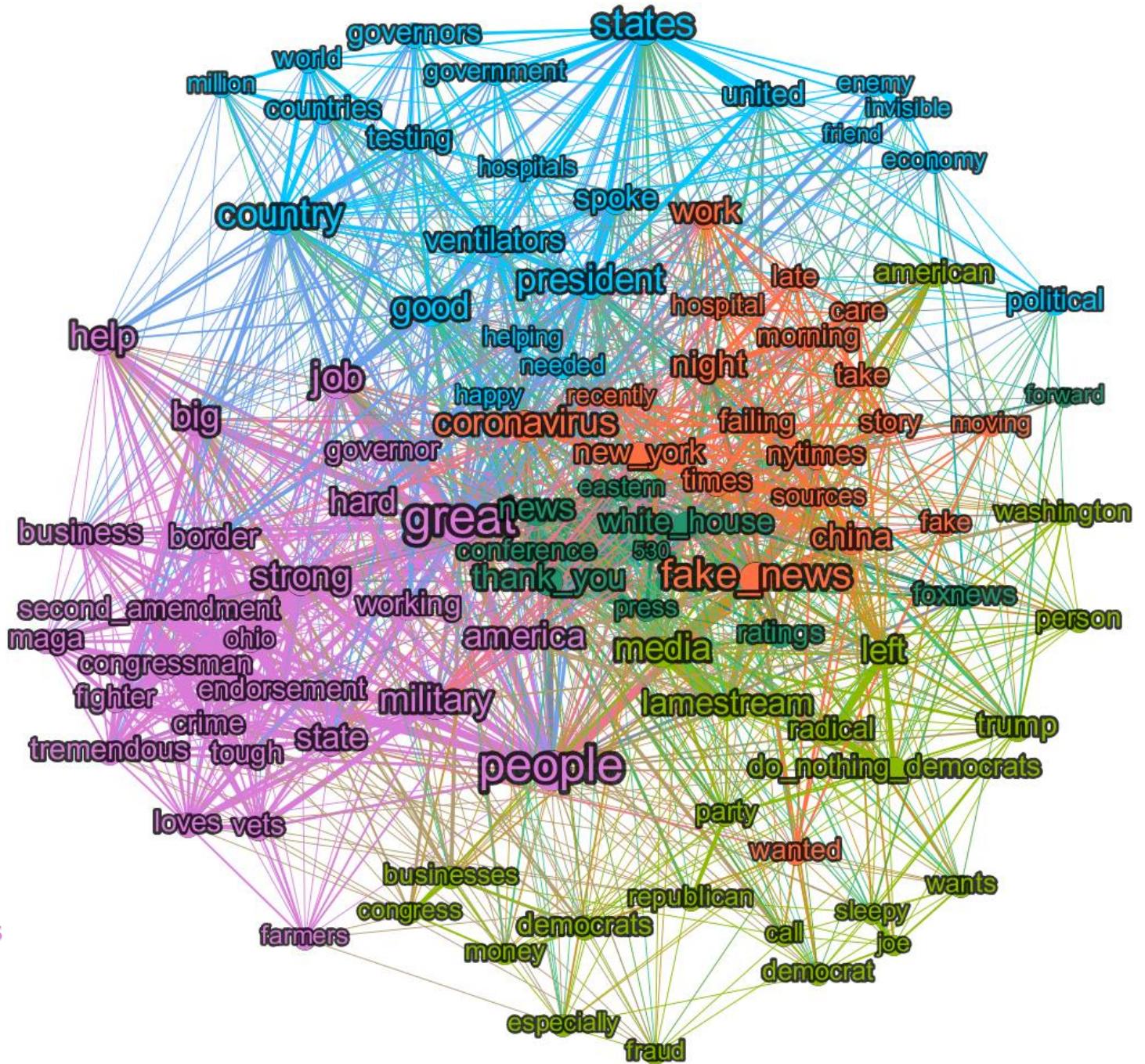


@realDonaldTrump
April 2020

J F M A M +

Potential Community Meanings

- Orange
 - COVID-19
 - Media
- Lime green
 - Democrats
- Dark green
 - White House press conferences at 5:30
- Blue
 - Government response to COVID-19
- Pink
 - Republican congressional primary endorsements

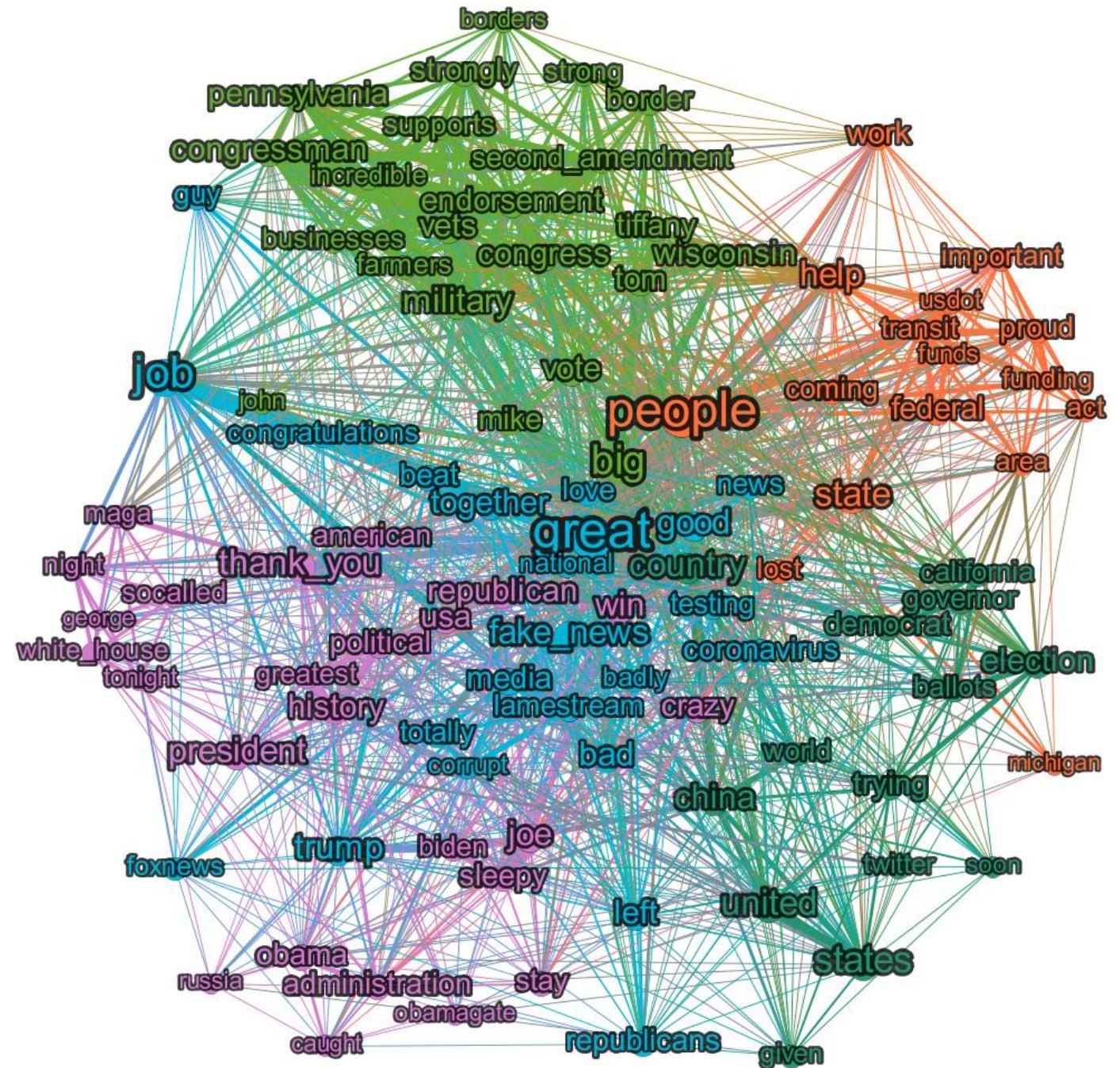




@realDonaldTrump
May 2020

```
graph LR; J((J)) --- F((F)); F --- M1((M)); M1 --- A((A)); A --- M2((M))
```

- Orange
 - Transit funding
 - Lime green
 - Republican congressional primary endorsements
 - Dark green
 - Mail-in ballot fraud
 - He is mad at China now
 - Blue
 - COVID-19 response
 - Fake news
 - Pink
 - Riots
 - Political = bad (against him)
 - Obamagate (+ Sleepy Joe)





@realDonaldTrump
May YTD 2020

```
graph LR; J((J)) --- F((F)); F --- M1((M)); M1 --- A((A)); A --- M2((M))
```

- Orange
 - Republican congressional primary endorsements
 - Lime green
 - Democrats
 - Blue
 - Fake News
 - Pink
 - COVID-19 and response

