



PDS

The Official Smalltown
Recuperating and
Recovery Plan

We Have A Problem

- The United States is facing a new threat: zombies, the reanimated dead.
- In 2020, a sudden mutation in a strain of COVID-19 resulted in “cytopathic reanimation”.

Yes, it can get worse.

Recently Obtained Information

- Human corpses are susceptible to reanimation if they were infected with the virus prior to death, with media outlets describing their behavior as “zombie-like” and highly contagious.

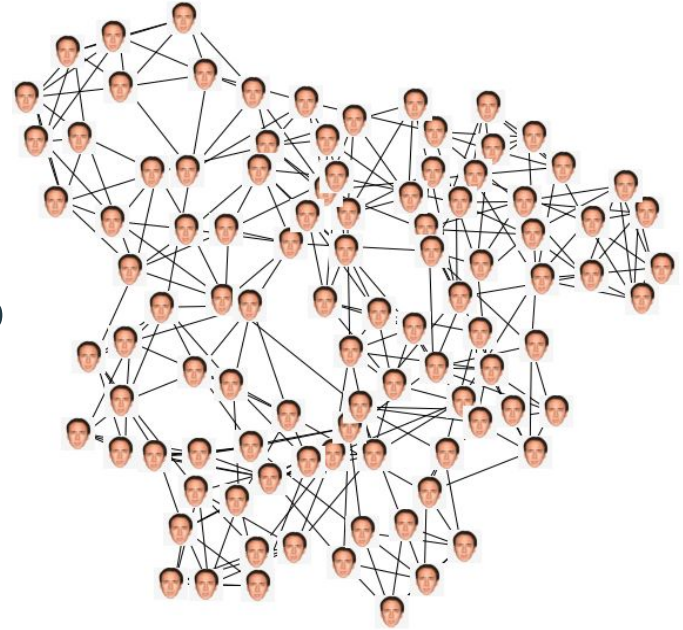
Hope



- Sit-in President Kanye West has contracted “Pas De Sommeil”, a French consulting team, that has suppressed the virus’s effects and spread around the world.
- It’s up to you, the few survivors of Smalltown, to set the example of how we move forward.

Modeling Approach

- Information of the virus in metropolitan areas was used to construct a common web-like graph to represent the “zombification” spread that occurred in Smalltown, TX over the span of ten days.



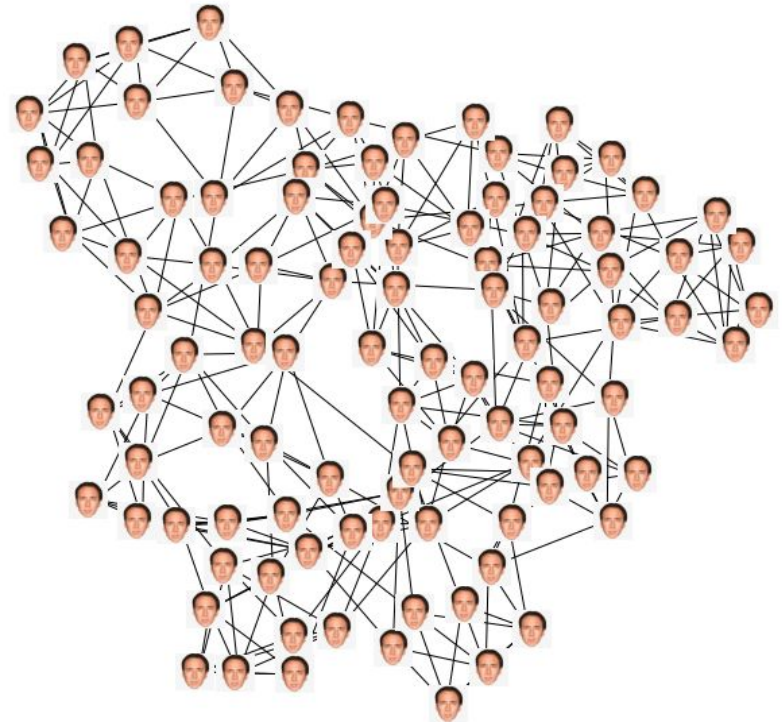
Modeling Approach cont.

- In honor of the first individual affected by the “zombie-coronavirus”, the non-infected human population in the graphs will be represented by Nicolas Cage.
- Zombies and recently infected individuals will be portrayed as images of themselves.



Smalltown, TX, USA

- To best model “zombification” in communities, three different determinants (methods) were tested to portray infection tendencies within them.



Status of Smalltown

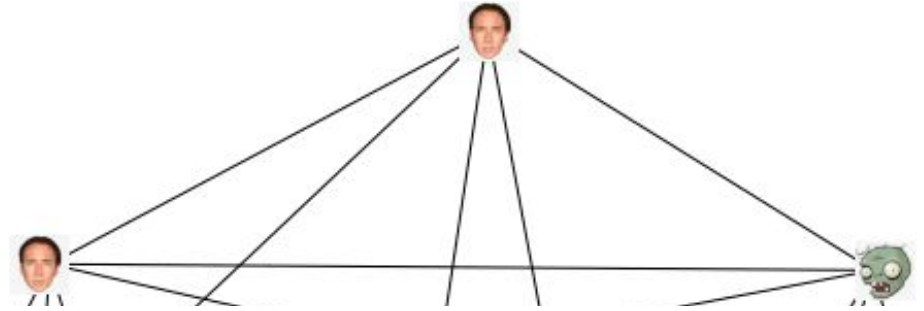


Vertices (i.e Human/Zombie)



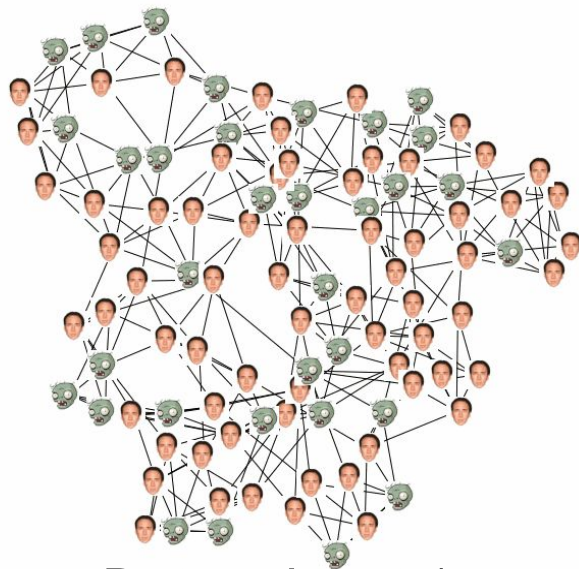
Edge(s) (i.e Contact between neighbors)

Improving Accuracy



- The graphs also show the severing of social contact between human and infected neighbors in response to discovery of zombified behavior (seen above).
- This represents the role social distancing plays in reducing the risk of infection.

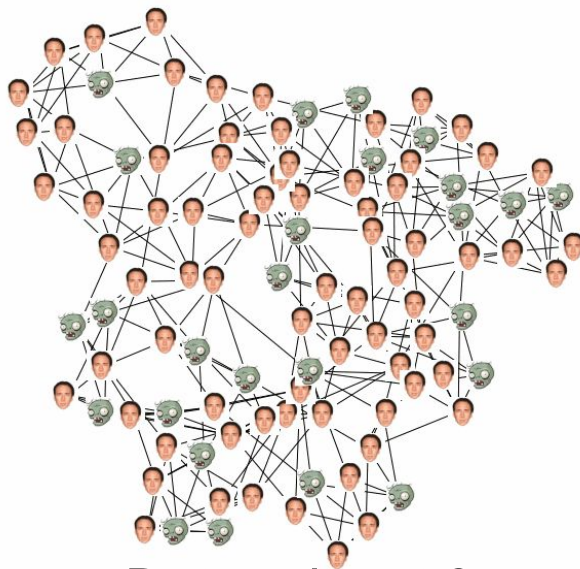




Determinant 1:

$$(\text{Number of neighboring zombies}) > 2$$

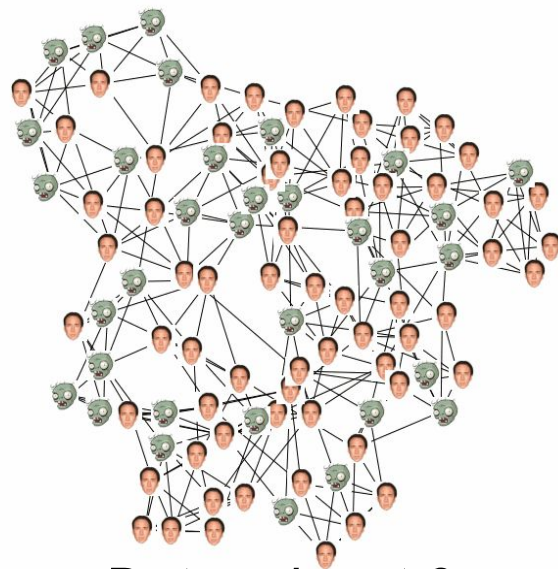
Citizen infected if 2 or more of its neighbors are zombies.



Determinant 2:

$$\frac{\text{Number of neighboring zombies}}{\text{Total number of neighbors}} \%$$

Citizen infected based on probability outcomes.

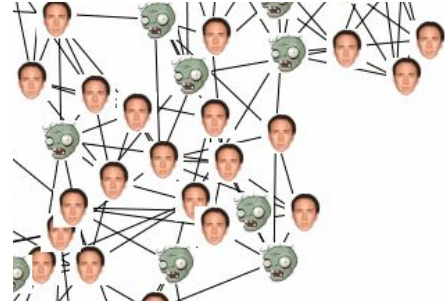
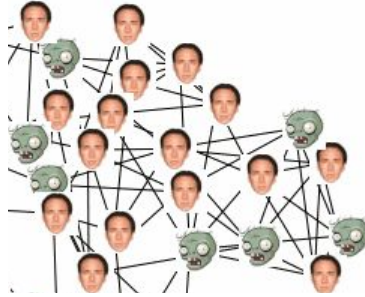


Determinant 3:

$$\frac{\text{Number of neighboring zombies}}{\text{Total number of neighbors}} > \frac{2}{3}$$

Citizen infected if proportion is greater than $\frac{2}{3}$.

Conclusion



- Each method showed that social distancing reduced risk of infection.
- Those who survived were often not contained in clustered large social groups.
- So far, we suspect that the virus may have malicious intentions against American actors.

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