In Medias Res

Last updated: 2021/10/06, 20:25:47 EDT

Principles of Complex Systems, Vols. 1 & 2 CSYS/MATH 300 and 303, 2021–2022 | @pocsvox

Prof. Peter Sheridan Dodds | @peterdodds

Computational Story Lab | Vermont Complex Systems Center Vermont Advanced Computing Core | University of Vermont























Licensed under the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 License.

PoCS @pocsvox In Medias Res







These slides are brought to you by:



PoCS @pocsvox In Medias Res







These slides are also brought to you by:

Special Guest Executive Producer



On Instagram at pratchett_the_cat

PoCS @pocsvox In Medias Res

Midseason Finale References





9 a @ 3 of 20

Outline

PoCS @pocsvox In Medias Res

Midseason Finale References

Midseason Finale

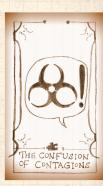
References











Contagion

Pocs @pocsvox In Medias Res

Midseason Finale References

A confusion of contagions:

- Did Harry Potter spread like a virus?
- Can disinformation be "infectious"?
- Suicide, Violence, Stupidity?
- Morality? Evil? Laziness? Stupidity? Happiness?
- Religion?
- Democracy ...?
- Language? The alphabet? [1]
- Stories?







Midseason Finale

R_0 approximately same for all of the following:

- $\ref{3}$ 1957-58 "Asian Flu" \sim 2,000,000 world-wide, 70,000 deaths in US.
- & 2003 "SARS Epidemic" \sim 800 deaths world-wide.



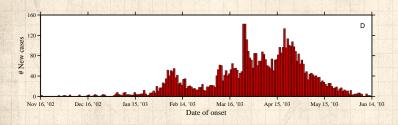


Resurgence—example of SARS

Pocs @pocsvox In Medias Res

Midseason Finale

References



- Epidemic slows... then an infective moves to a new context.
- Epidemic discovers new 'pools' of susceptibles: Resurgence.
- Importance of rare, stochastic events.







Mistake 2:

Seeing success is 'due to social' and wanting to say 'all your interactions are belong to us'

Pocs @pocsvox In Medias Res

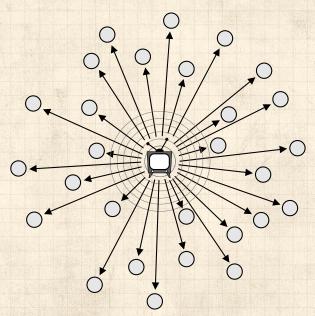








The hypodermic model of influence:



PoCS @pocsvox

In Medias Res

Midseason Finale References

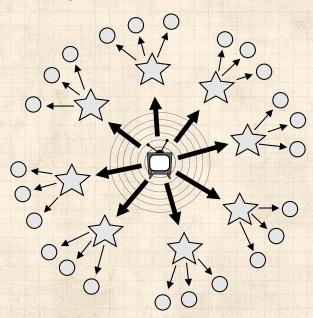






9 a № 10 of 20

The two step model of influence: [3]



PoCS @pocsvox

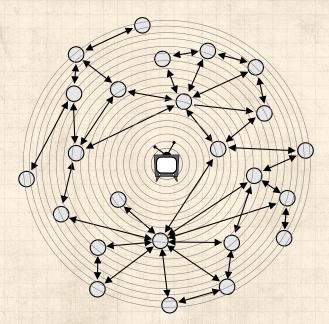
In Medias Res







The network model of influence:



PoCS @pocsvox

In Medias Res

Midseason Finale References



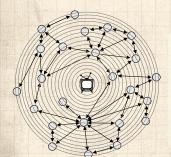




9 a № 12 of 20

The network model of influence:

@pocsvox In Medias Res



How superspreading works:

Many interconnected, average, trusting people must benefit from both receiving and sharing a message far from its source.

Midseason Finale References



"Influentials, Networks, and Public Opinion Formation"

Watts and Dodds, J. Consum. Res., **34**, 441–458, 2007. [4]







And of course:

PoCS @pocsvox

In Medias Res

Midseason Finale

References









How we got here: It's going to be tropes all the way down ■

PoCS @pocsvox

In Medias Res

Midseason Finale References





9 a № 16 of 20

¹Look Who's Purging Now <a>[2]

PoCS @pocsvox In Medias Res

Midseason Finale References

100 days earlier in the PoCSverse ... ☑







9 a @ 17 of 20



The dynamics of course reviews ⊞

PoCS @pocsvox

In Medias Res

Midseason Finale

References





少 Q № 19 of 20

References I

PoCS @pocsvox In Medias Res

[1] J. Gleick.
The Information: A History, A Theory, A Flood.
Pantheon, 2011.

Midseason Finale References

- [2] D. Harmon, R. Ridley, and J. Rolland. Look Who's Purging Now, 2015.
- [3] E. Katz and P. F. Lazarsfeld.

 Personal Influence.

 The Free Press, New York, 1955.
- [4] D. J. Watts and P. S. Dodds. Influentials, networks, and public opinion formation.

Journal of Consumer Research, 34:441–458, 2007. pdf ☑



