

Wikipedia & Covid-19

Kyle Ashburn

Professor Sayamindu Dasgupta

INLS 490.278

Agenda

Questions

Why this?

Prior Work

Data & Method

Results

Limitations

Questions

Do the Wikipedia Articles for respiratory outbreaks have a similar page view trend to Covid-19's?

- My hypothesis is they will.

Do the editors of those articles overlap?

- My hypothesis is they will.

Why this project?

We're in the midst of a global pandemic and we need to understand the information ecosystem people rely on.

Prior Work

Wikipedia activity as a measure of interest (Yoshida et al. 2015, Kampf et al. 2015, Mahroum et al. 2018)

Wikipedia as a source of health info (Laurent & Vickers 2009)

Wikipedia redirects (Hill & Shaw 2014)

Data & Method

Pageview Statistics & Edit history

Collected through the Wikipedia API

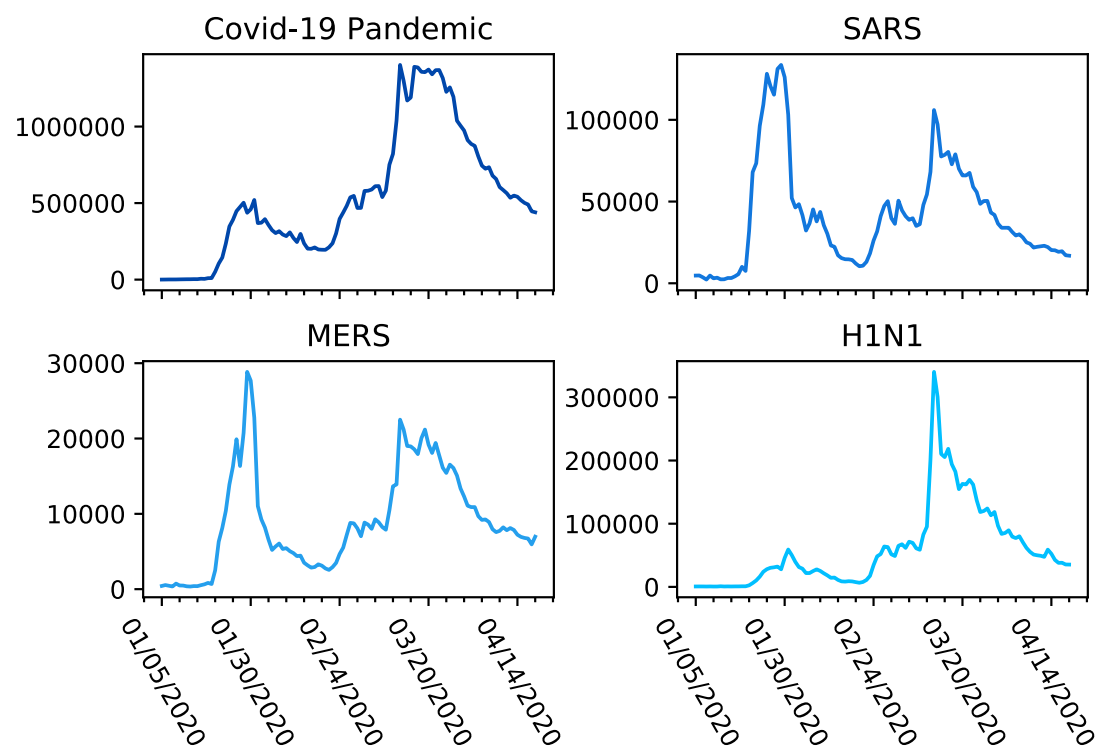
Results(...)

I was wrong...

The pageviews seem to be following the same pattern...more or less...

The editor lists are slightly related...but no more than other pages...

Pageviews



Editor Overlap

Pages Compared (top n editors)	Jaccard Similarity
MERS & Covid Pandemic (100)	0.036
SARS & Covid Pandemic (100)	0.02
H1N1 & Covid Pandemic (100)	0.03
MERS & Covid Pandemic (10)	0.05
SARS & Covid Pandemic (10)	0.05
H1N1 & Covid Pandemic (10)	0.0

Limitations

I only looked at the English Language Wikipedia...

The editors may change over time – it's not necessarily stable...

Article names change & redirects aren't counted...

Works Cited

Yoshida, Mitsuo, et al. "Wikipedia Page View Reflects Web Search Trend." Proceedings of the ACM Web Science Conference on WWW - WebSci '15, June 2015, doi:10.1145/2786451.2786495.

Mahroum, Naim, et al. "Public Reaction to Chikungunya Outbreaks in Italy—Insights from an Extensive Novel Data Streams-Based Structural Equation Modeling Analysis." Plos One, vol. 13, no. 5, 24 May 2018, doi:10.1371/journal.pone.0197337.

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Laurent, M. R., and T. J. Vickers. “Seeking Health Information Online: Does Wikipedia Matter?” *Journal of the American Medical Informatics Association*, vol. 16, no. 4, 2009, pp. 471–479., doi:10.1197/jamia.m3059.

Kämpf, Mirko, et al. “The Detection of Emerging Trends Using Wikipedia Traffic Data and Context Networks.” *Plos One*, vol. 10, no. 12, 31 Dec. 2015, doi:10.1371/journal.pone.0141892.

Works Cited (cont.)

Hill, Benjamin Mako, and Aaron Shaw. "Consider the Redirect."
Proceedings of The International Symposium on Open Collaboration
- OpenSym '14, Aug. 2014, doi:10.1145/2641580.2641616.

Questions?

Meaning of Life? -42

How many licks to get the center of a Tootsie-Pop?

- We may never know

When will I graduate?

- Eventually probably (Hopefully never)

Bonus!

I found some code that makes graphs render more cleanly

```
%config InlineBackend.figure_format = 'retina'
```