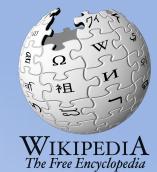
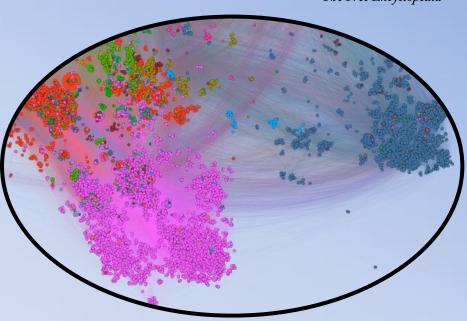
Exploring WikiLinks

Sean O'Neal

- Graph of Wikilinks
- Cluster Analysis
- Degrees of Separation
- Link Recommender System





## The Dataset

# . 53GB

- ~5 million articles
- ~150 million links

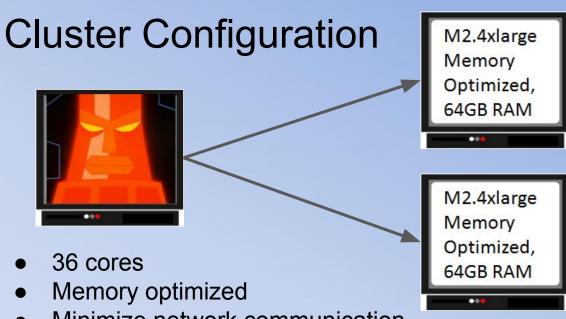
# **The Tools**



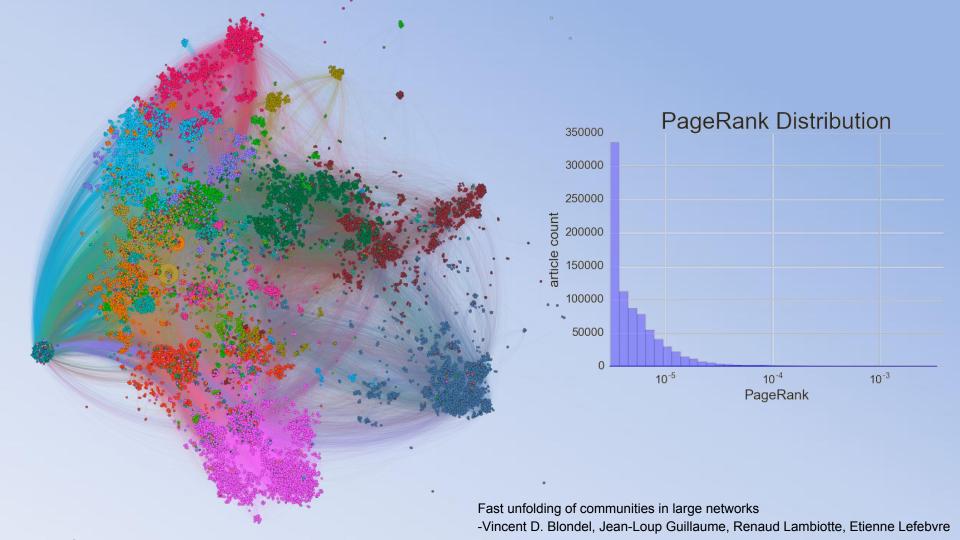


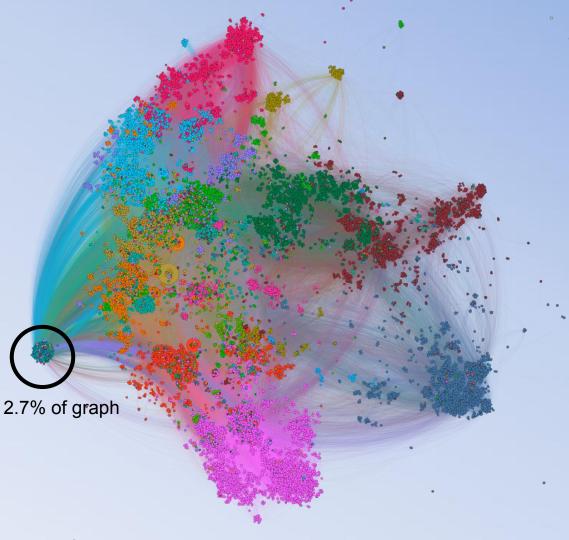




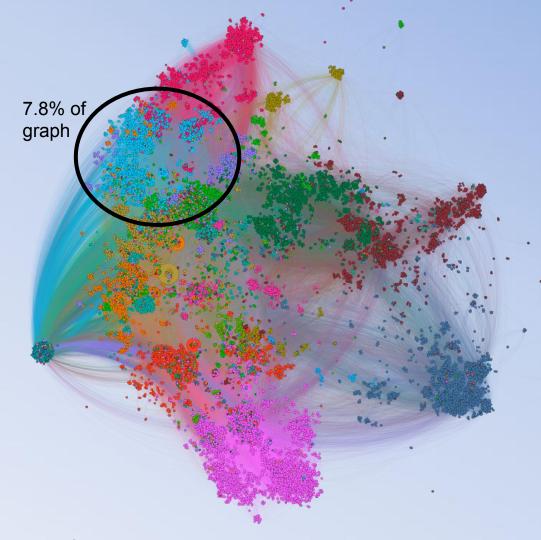


- Minimize network communication
- Hold all of wikipedia in memory at once!



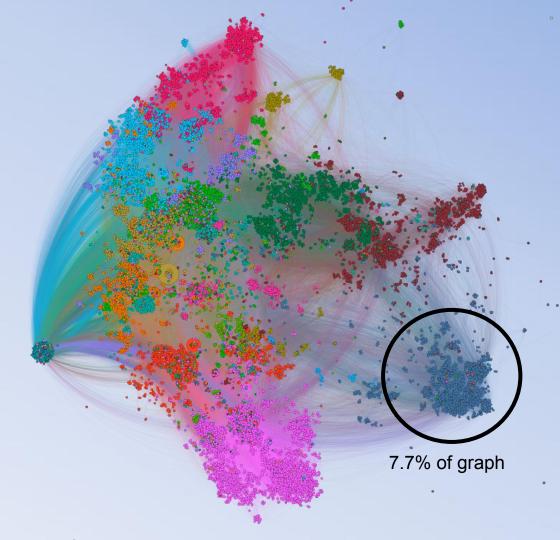


Topic: dates!



Italy Roman Empire Christianity Middle Ages Judaism Bible Jerusalem Constantinople **New Testament** Venice Charlemagne Pope Alexandria Mesopotamia

Topic: History/Religion?



Microsoft

Internet

Unicode

C (programming language)

Apple Inc.

**Stanford University** 

**MIT** 

World Wide Web

Intel

Java (programming language)

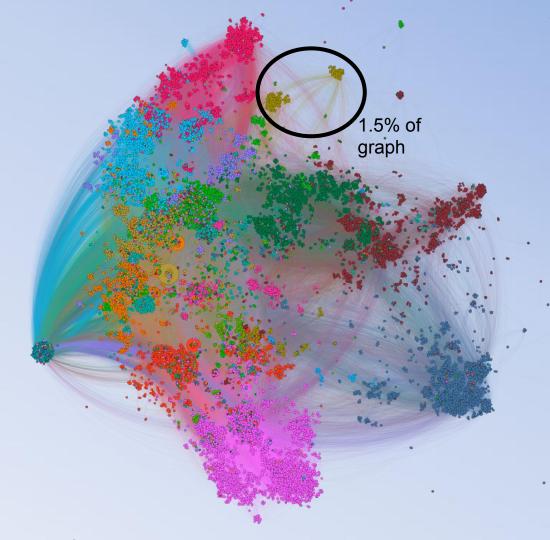
Portable Document Format

C++

Wired (magazine)

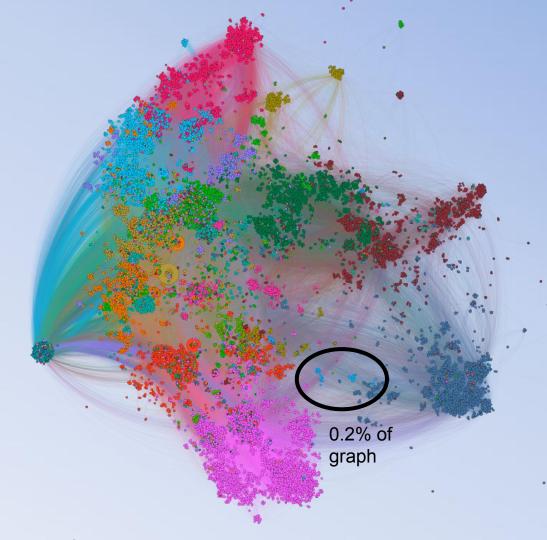
Python (programming language)

Topic: Technology



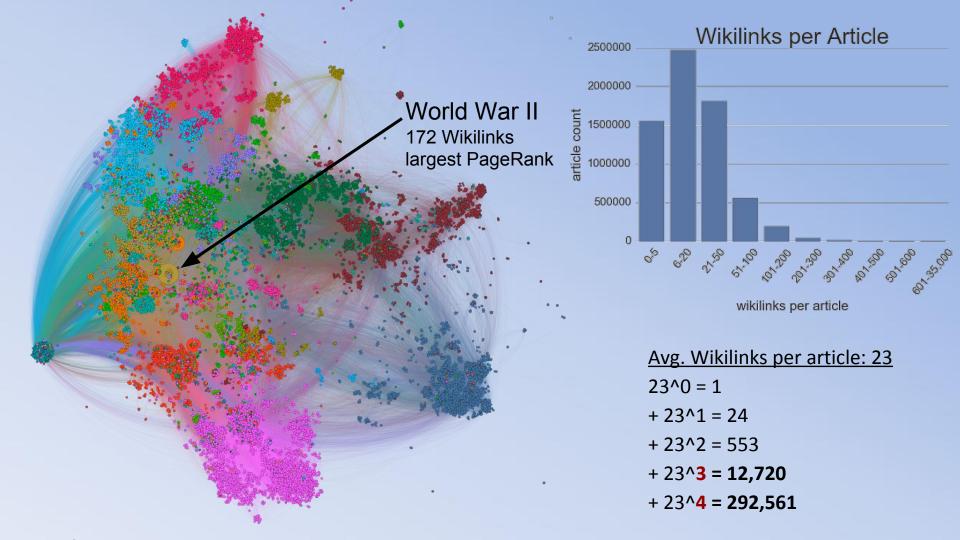
Old Norse J. R. R. Tolkien Isaac Asimov Robert A. Heinlein Prose Edda Science fiction The Lord of the Rings Poetic Edda Beowulf **Dungeons & Dragons** The Hobbit **Terry Pratchett** 

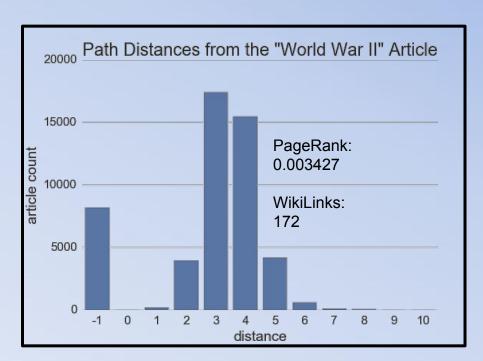
Topic: science fiction!

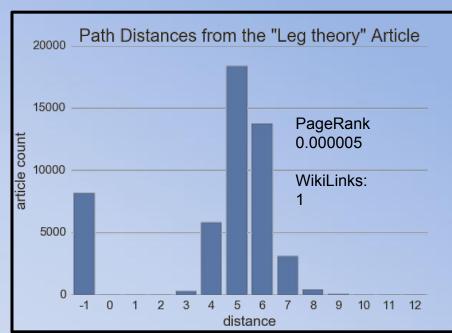


Texas hold 'em Omaha hold 'em Declaration (poker) Bluff (poker) World Series of Poker List of poker variants Draw (poker) Out (poker) Playing card High-low split **Precision Club** Aggression (poker)

Topic: Poker!







	<u> </u>	<u>st i</u>	mr	ort	<u>tant</u>	nod	es (	<u>out</u>	<u>of</u>	<u>wwii</u>	<u>:</u>
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#### No path exists between WWII and...:

Romani people	5313	Cliffhanger (film)
Charles de Gaulle	2412	Reticulated Python
Netherlands	2309	Economy of San Marino
Second Sino-Japanese War	1866	
Mongolia	1842	
Manhattan Proiect	1734	

. . .

#### **Recommender System:**

(WWII is not, but should be connected to...)

Article:	# of articles that link to both:
Germany	569
The New York Times	499
American Civil War	404
London	391
Russia	390
Japan	363
<sup>*</sup>	

