DIY Cartography: Networks: Nodes, Links, Relationships

ADN592/ARC590: DIY Cartography

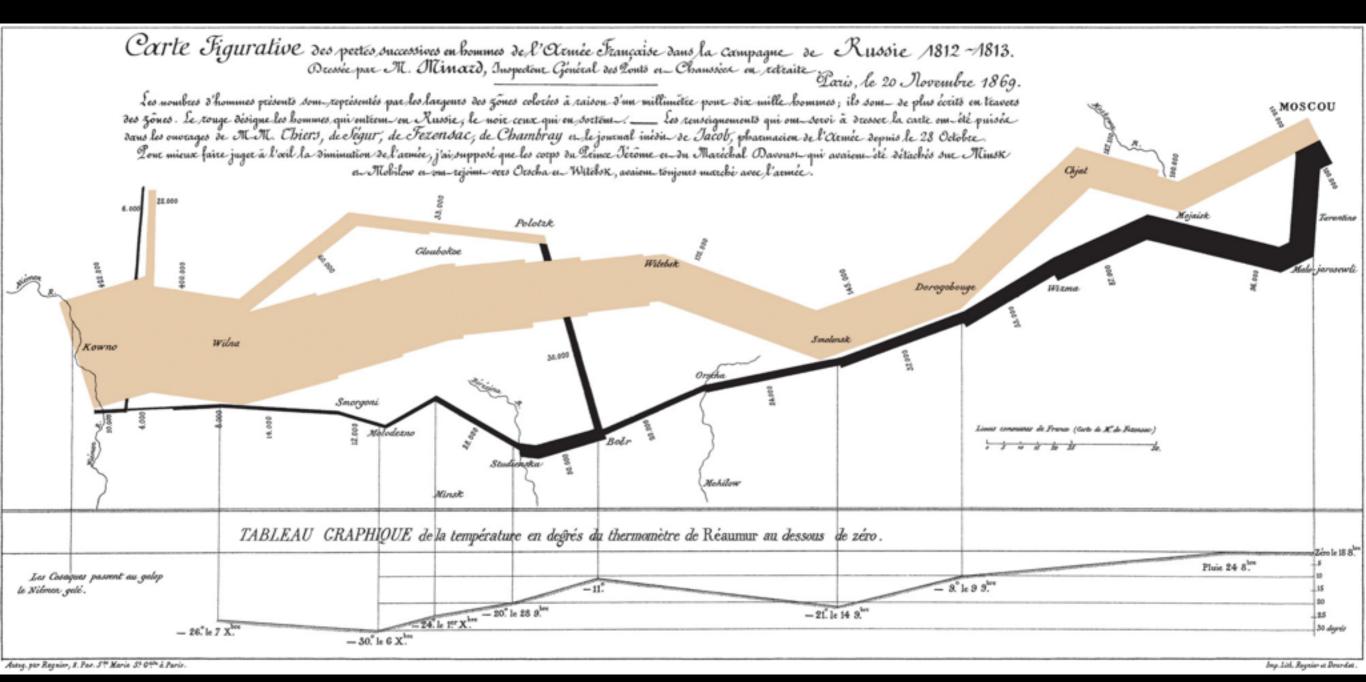
March 02, 2016

"The change in focus from attribute data to relational data dramatically affects how data are collected, represented and analyzed."

number of double registered in the 25 " week was 50%, the

The black relear denotes the extent by which the weekly

the mean temperature of that wak was IFI above the average mean; which excess is shown by the width of the red cylour.



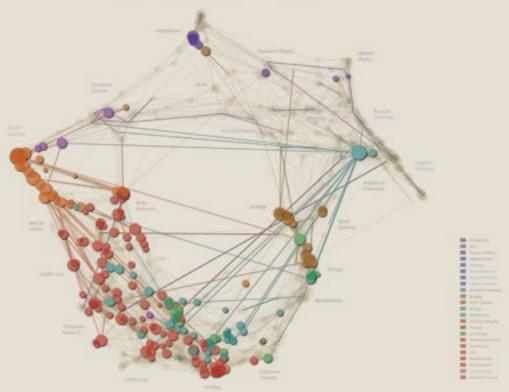
THE STRENGTHS OF NATIONS

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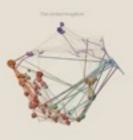
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The United States of America



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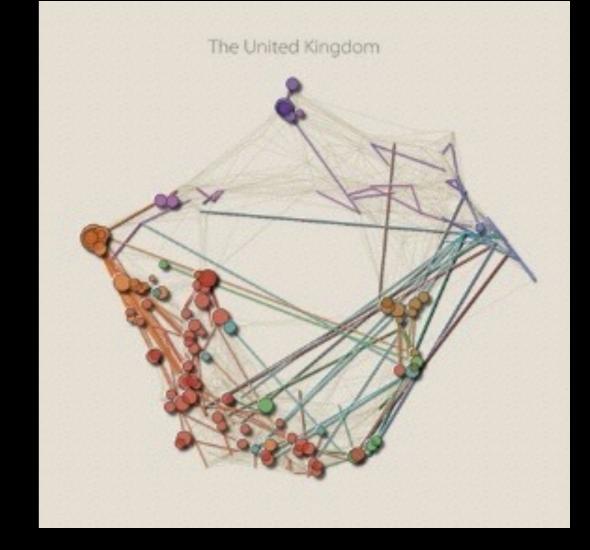


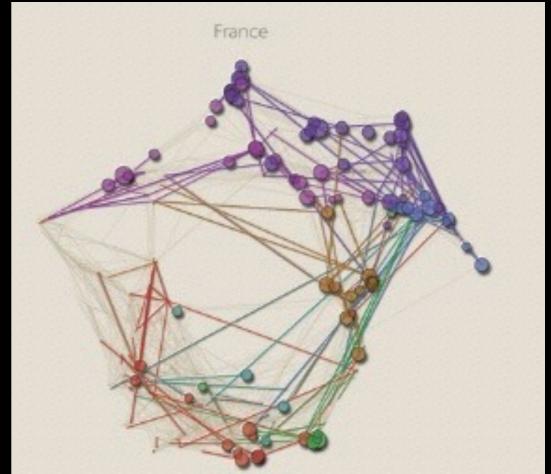






Kevin Boyack, Dick Klavans, W. Bradford Paley Strength of Nations (2006)



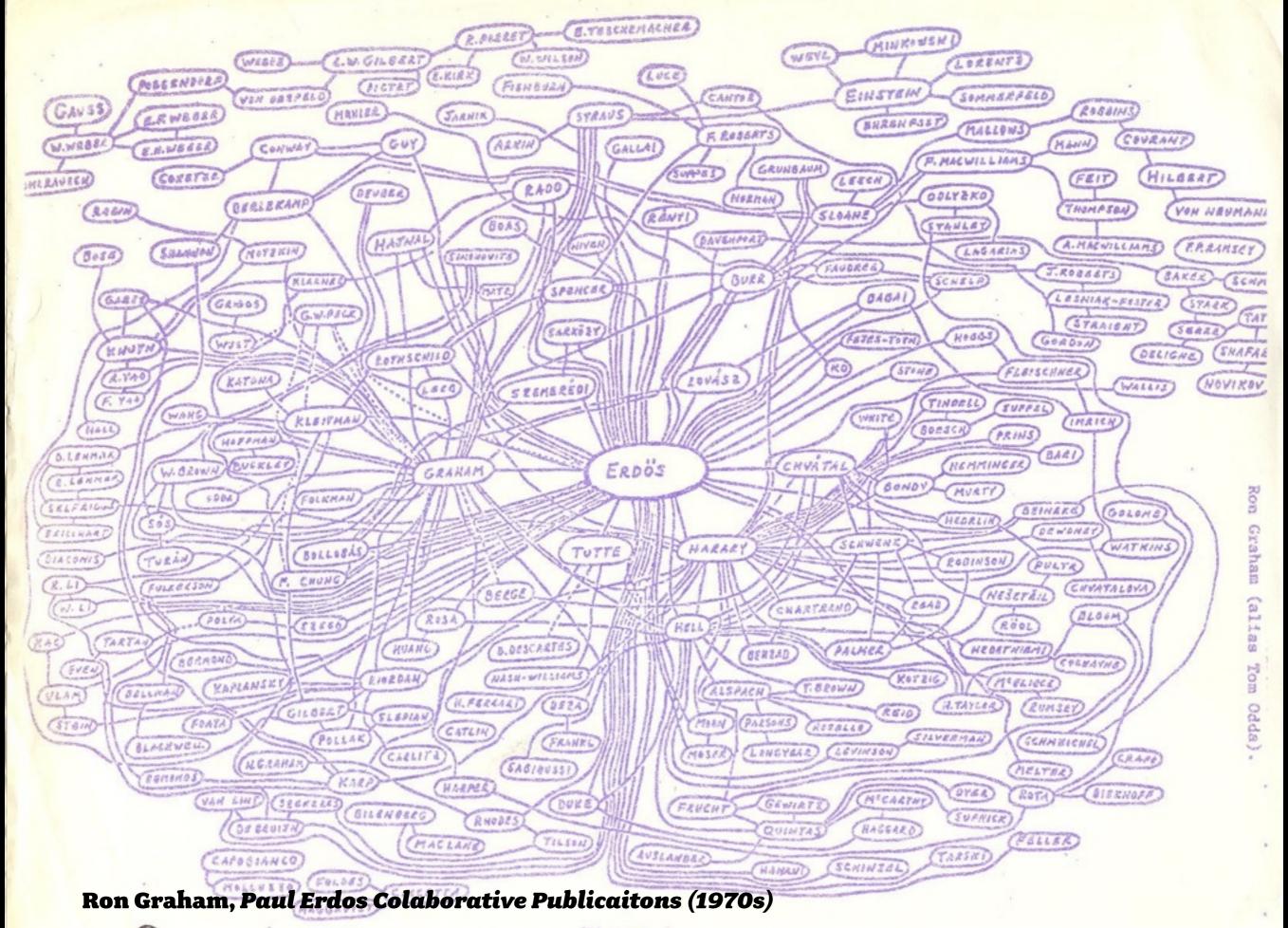


Networks are made up of:

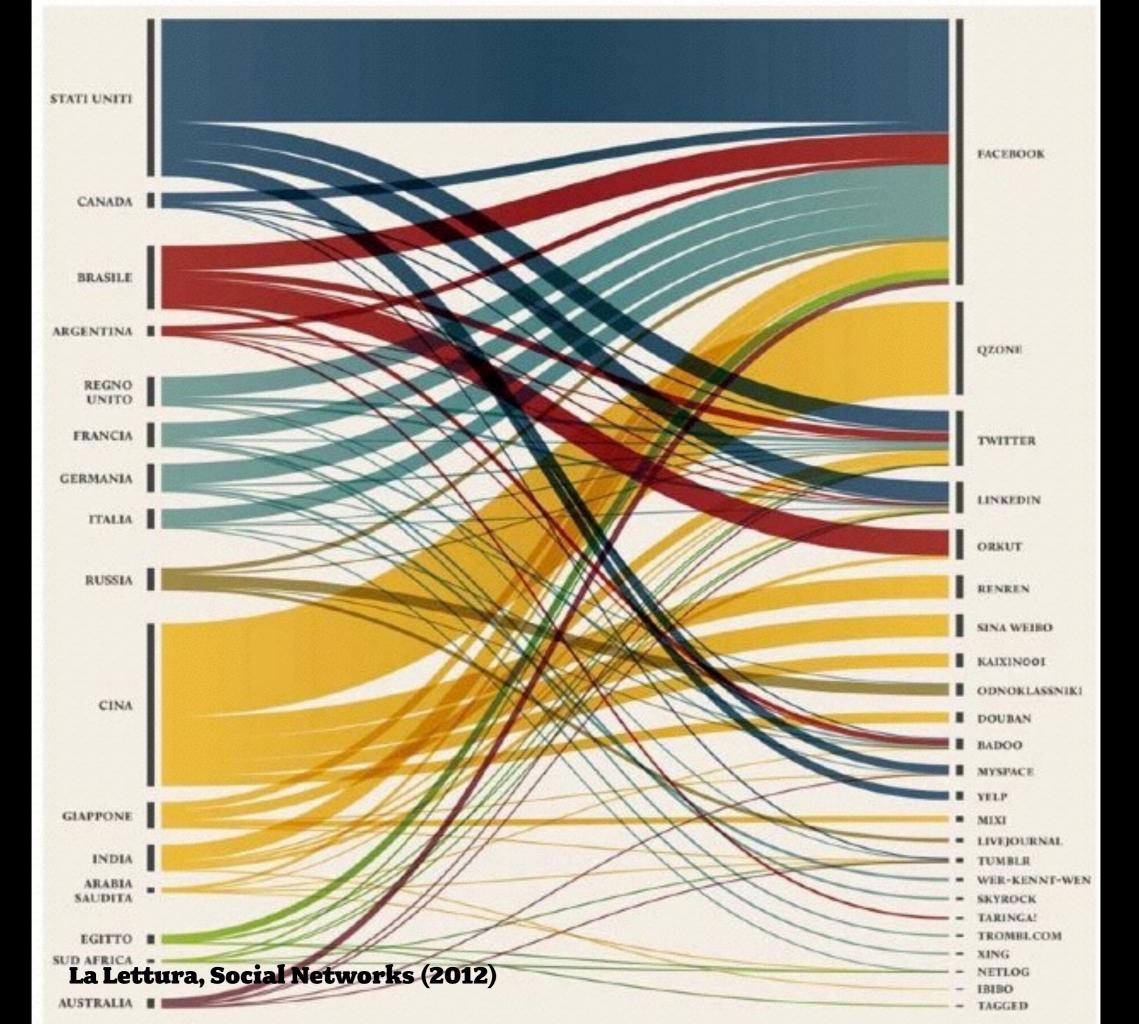
-Nodes: Uni-Modal or Multi-Modal

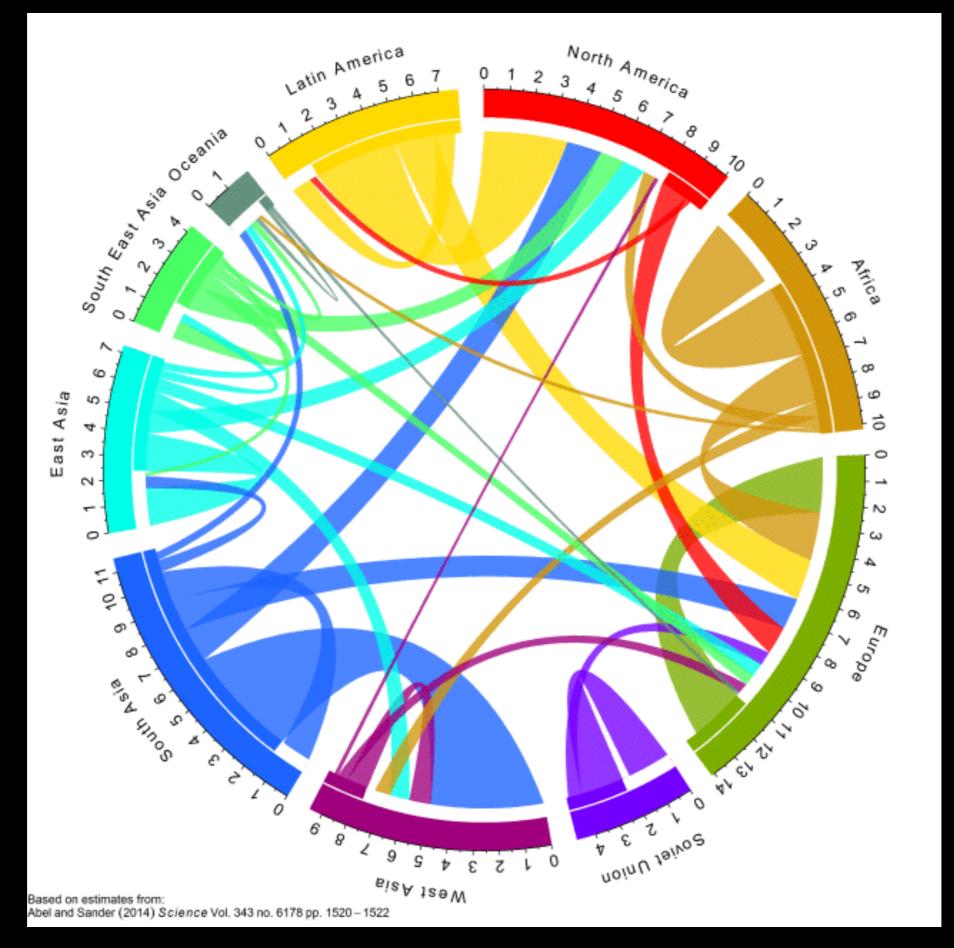
Affiliation Network (p49): Connecting across sets but not within them.

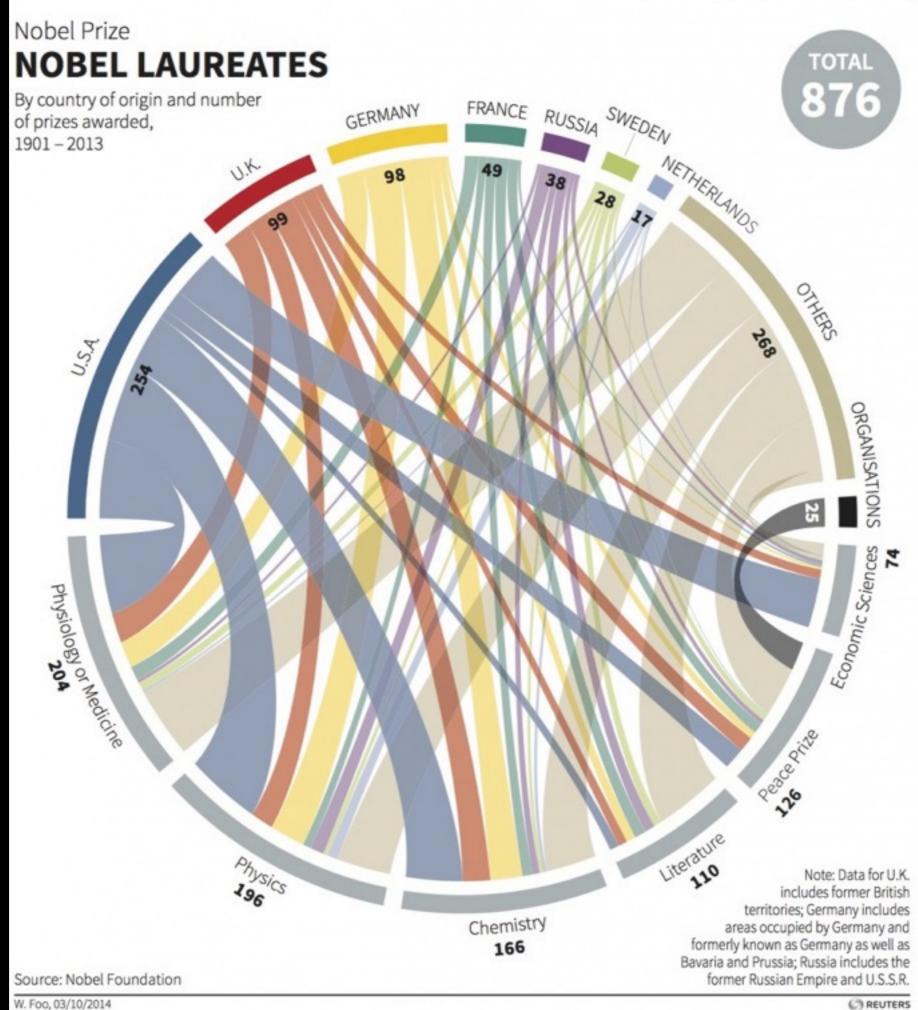
-Links: Undirected or Directed; Weighted and unweighted.



To appear in Topics in Graph Theory (F. Harary, ed.) New York Academy of Sciences (1979).







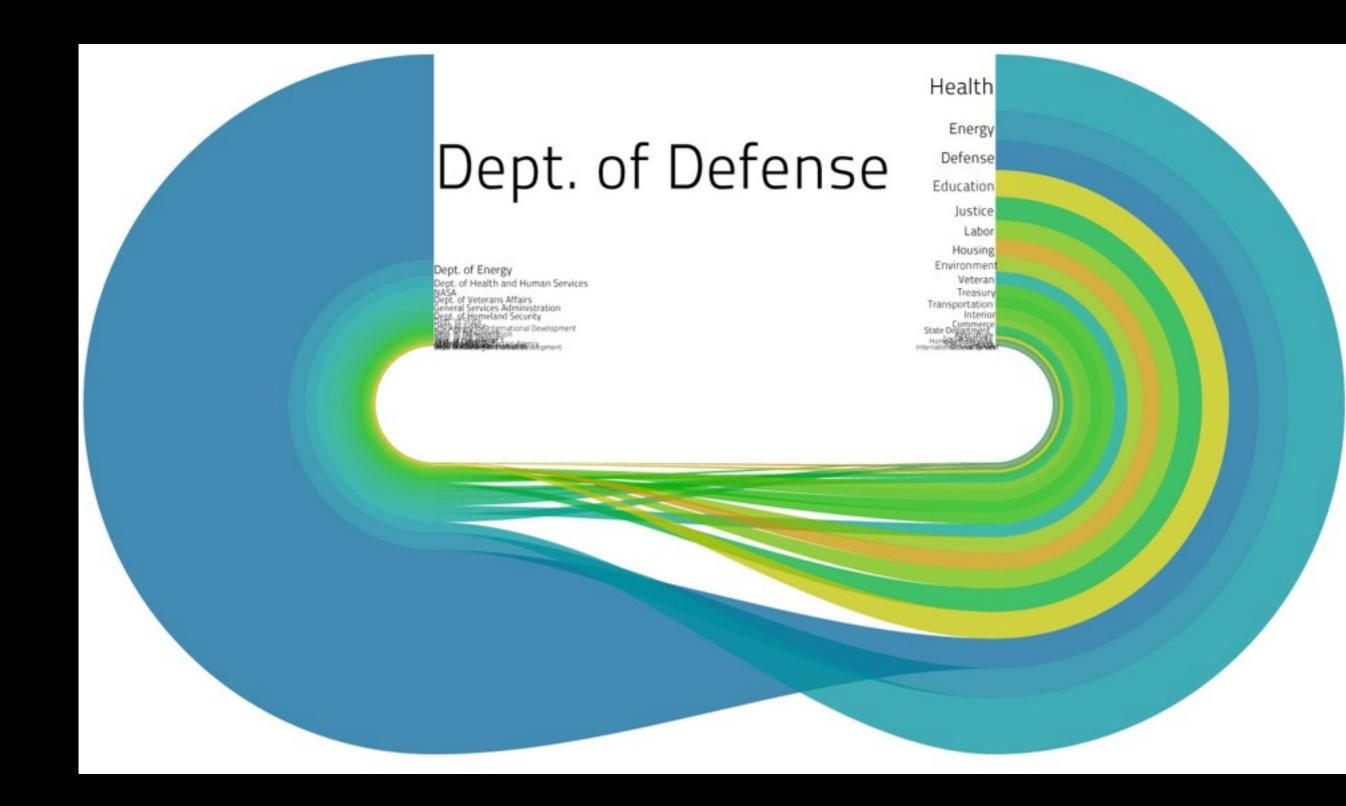
Paths and Connectivity:

A path is any sequence of nodes given that each consecutive pair of nodes is connected by a link. The path length provides the number of links in the route between a pair of nodes.

Three representation strategies

- Lists
- Matrices
- Node-Link Diagrams

Lists

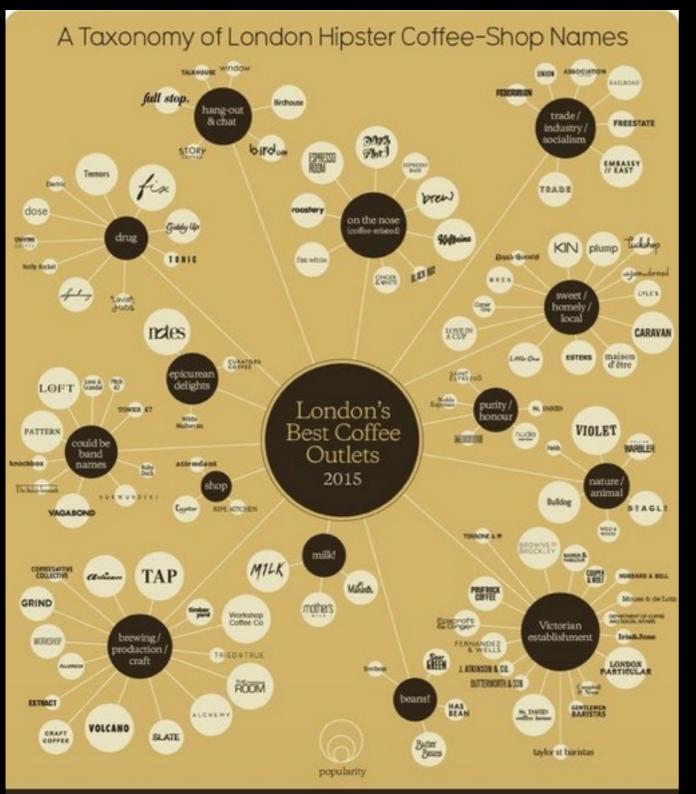


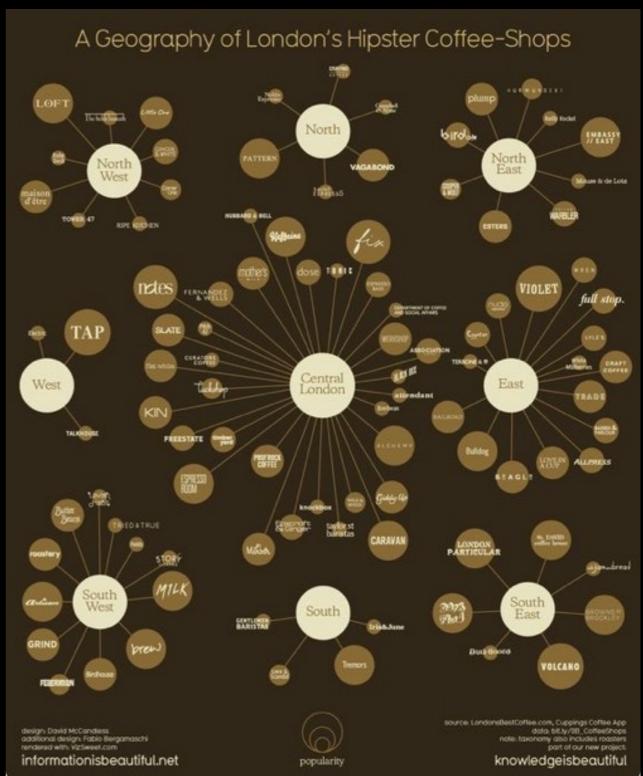
Matrices

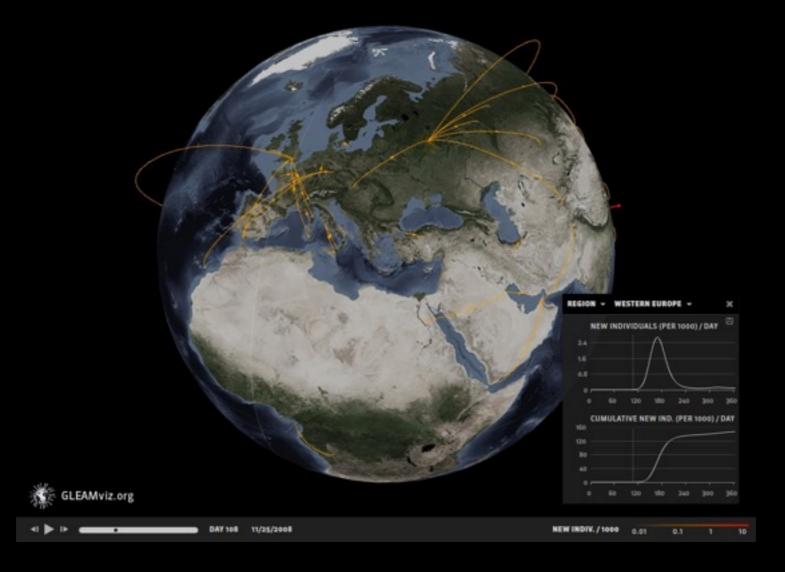


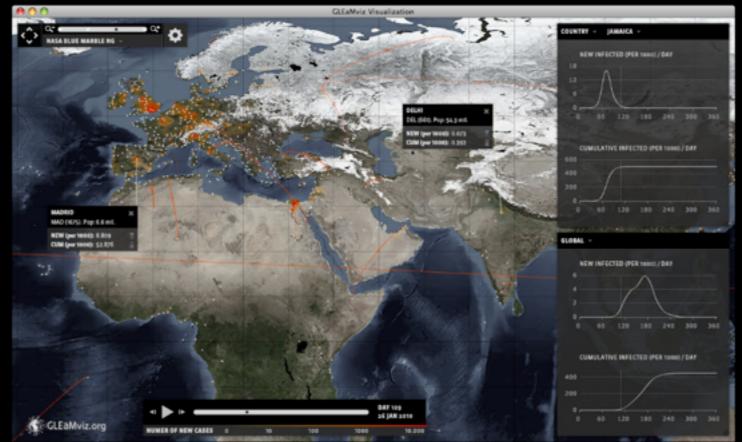
New Yorker Magazine, High Brow, Low Brow, Despicable, Brilliant

Nodes and Links







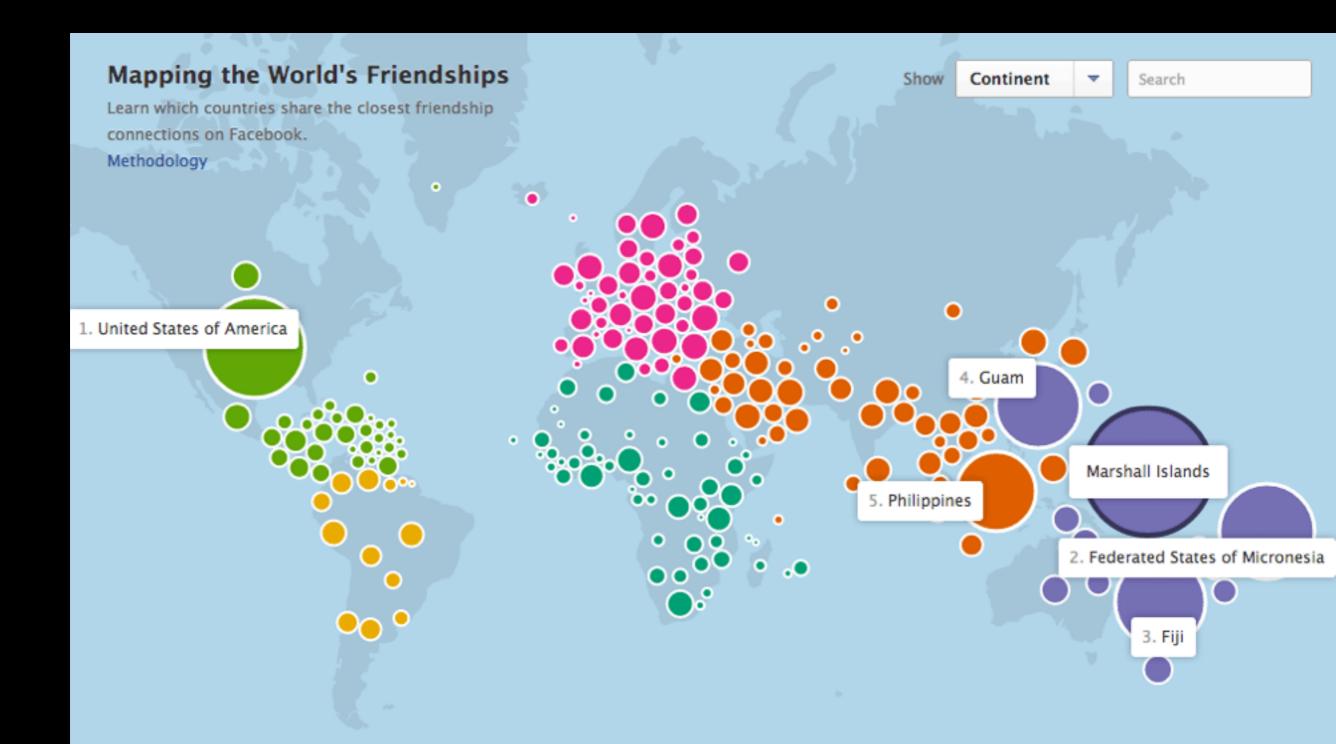




Relational maps might suggest causation, but do not explicitly indicate it. That is where narratives can help.

A Closer Look: Dominican Republic & Haiti

Though the Dominican Republic shares an island with its western neighbor, Haiti, the two countries share a tense relationship due to different languages and a large wealth disparity. Many Haitians seeking economic opportunity and fleeing earthquake damage have relocated to the Dominican Republic, though they often face discrimination and increasing deportation rates. Source



A Closer Look: Marshall Islands & the United States

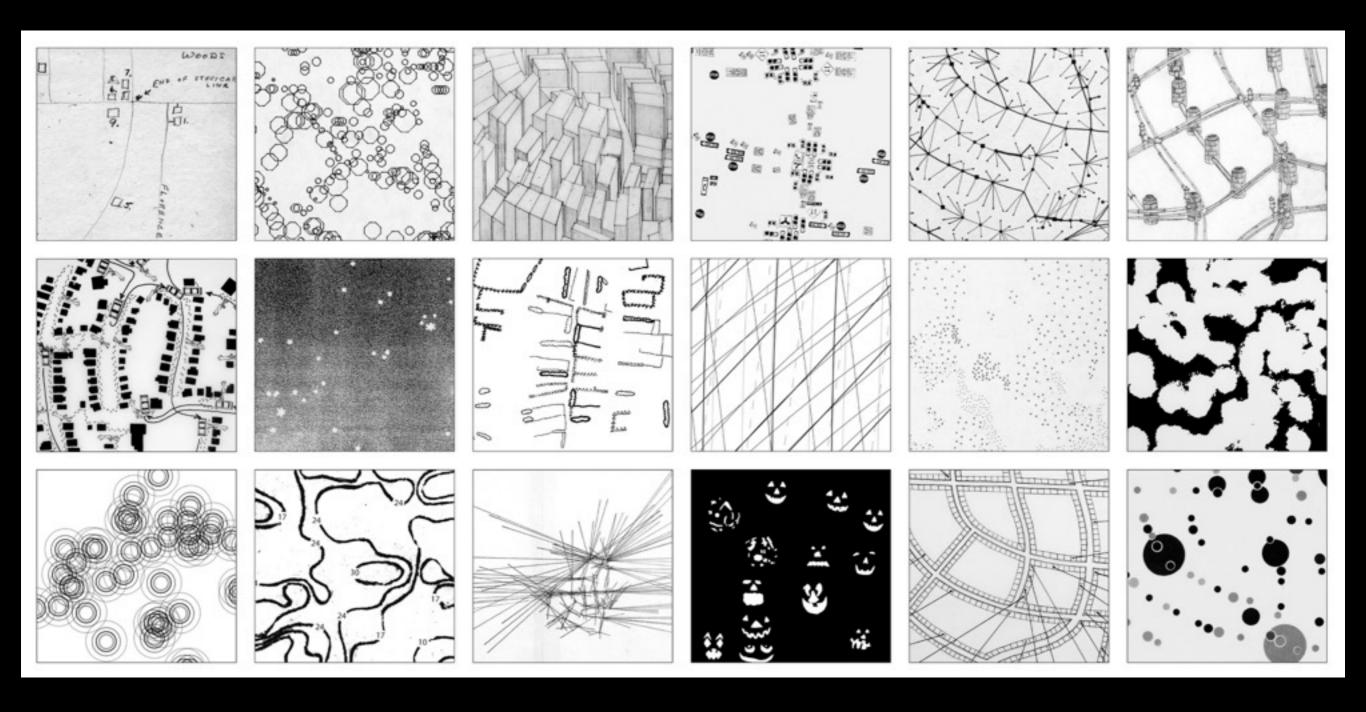
The U.S. occupied the Marshall Islands from 1944 until 1986, and 10 percent of the islands' residents hail from the U.S. The top destination for Marshallese immigrants is the United States, where they mostly reside in Hawaii, Oregon, California and Arkansas Source

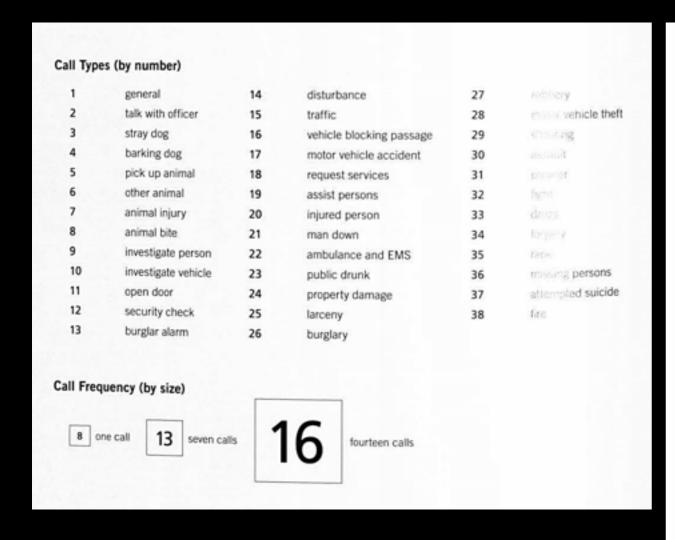
A Closer Look: Sweden & Iraq

Sweden has taken in more Iraqi refugees than the United States. One town alone, Södertälje, dubbed "Little Baghdad", has accepted 6,000 Iraqis since 2003. Source

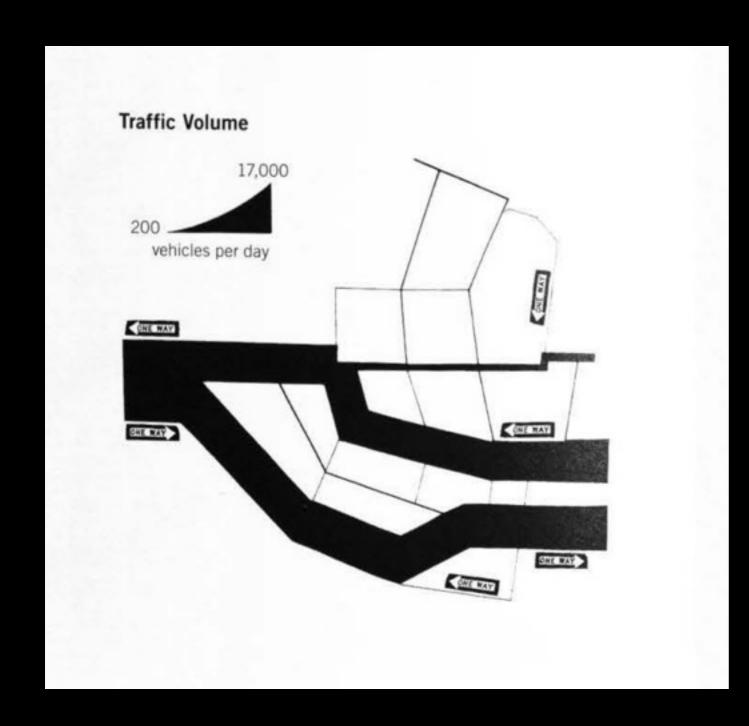


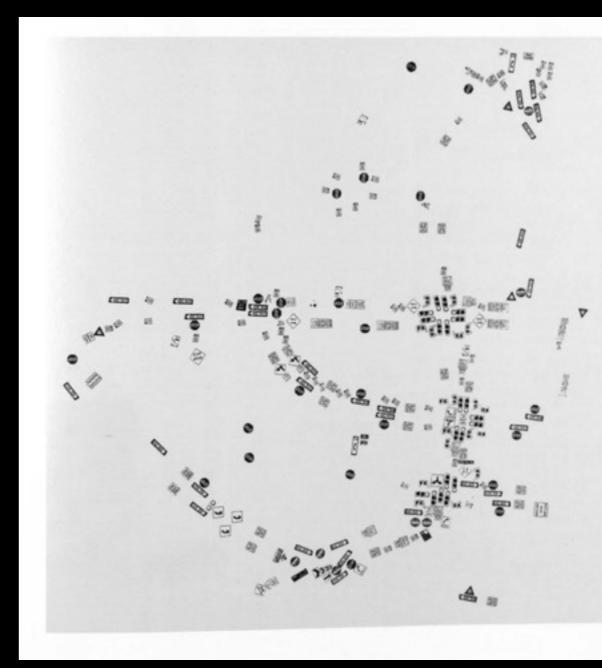
Paul Butler, Map Visualizing Friendships in Facebook around the Globe (2010).



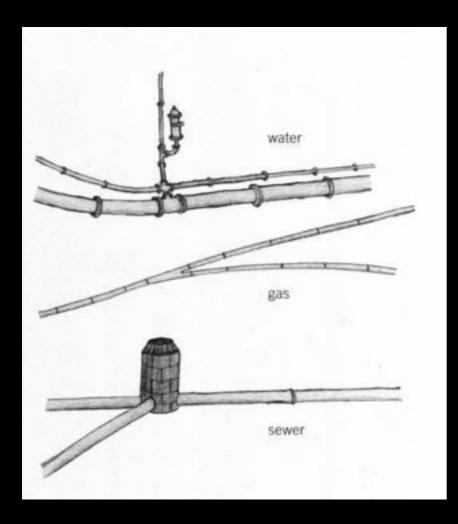


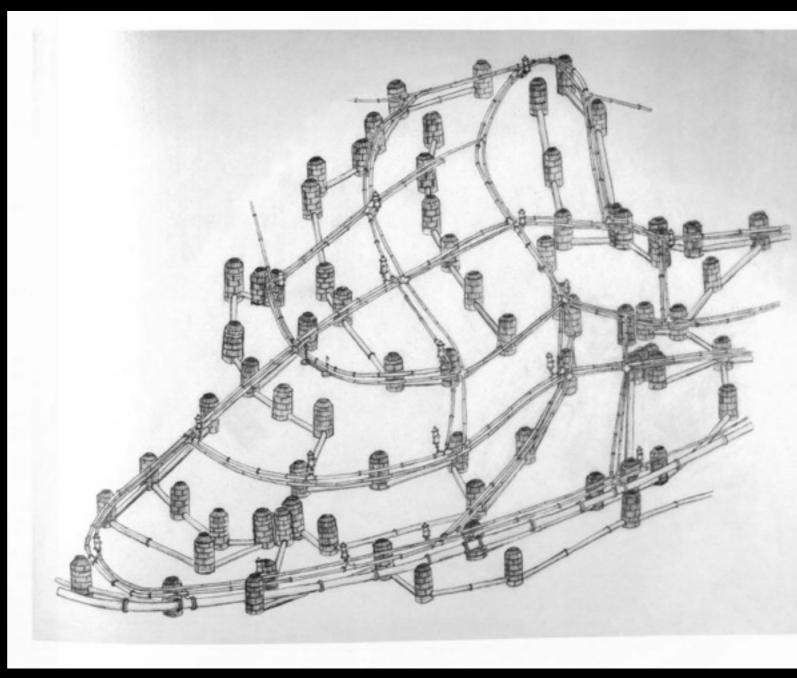




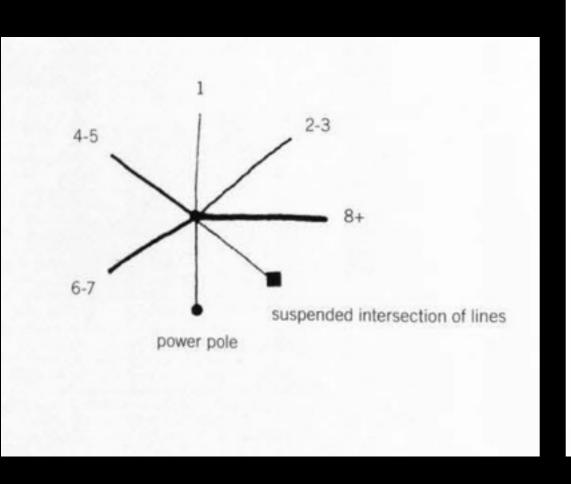


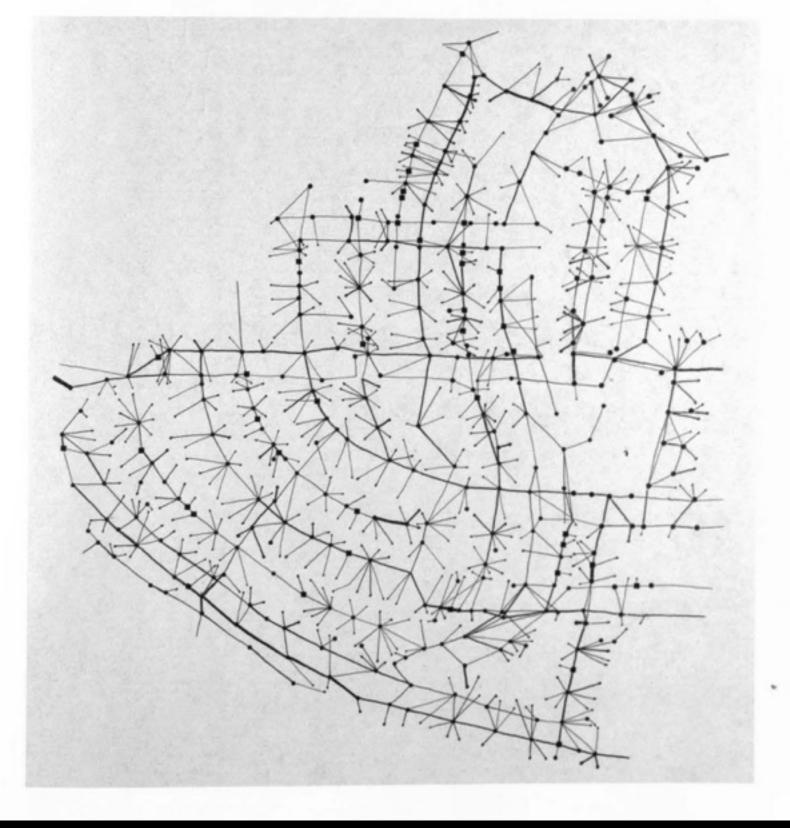
Signs for Strangers Denis Wood Everything Sings: Maps for a Narrative Atlas (2010)





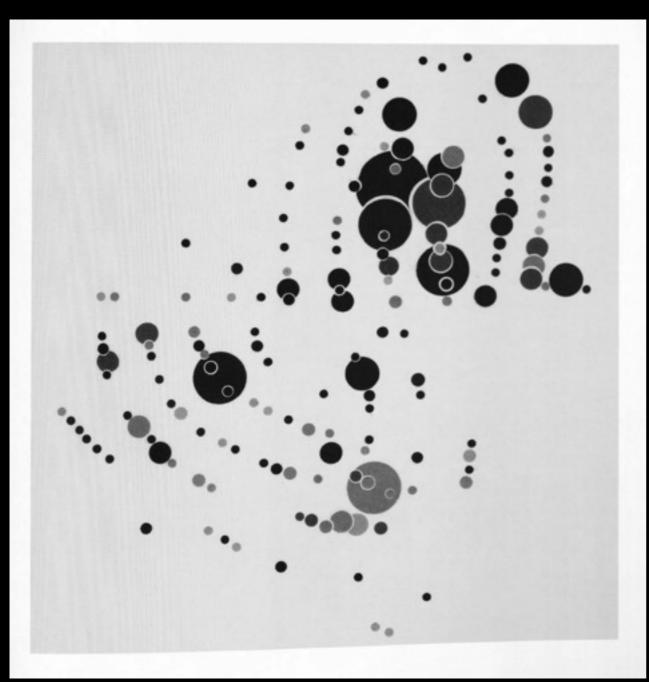
Intrusions Under Hill Denis Wood Everything Sings: Maps for a Narrative Atlas (2010)





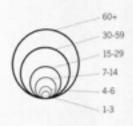
Squirrel Highways

Denis Wood Everything Sings: Maps for a Narrative Atlas (2010)





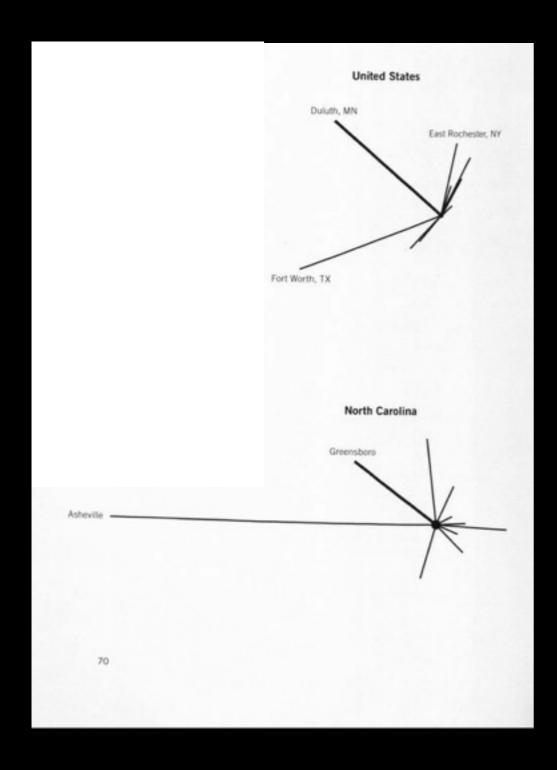
Mentions in the Newsletter

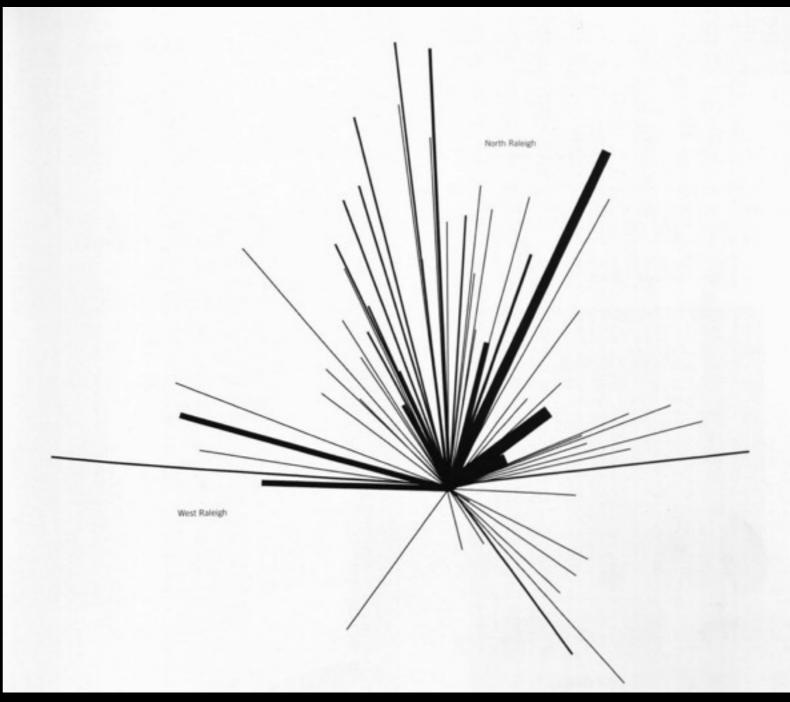


The LIGHTER the color, the more personal the nature of the reference.

The DARKER the color, the more

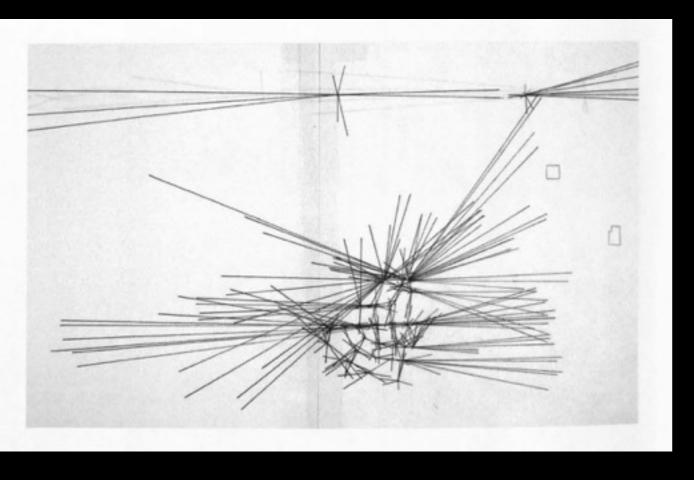
Newsletter Prominence and Jack-O-Lanterns

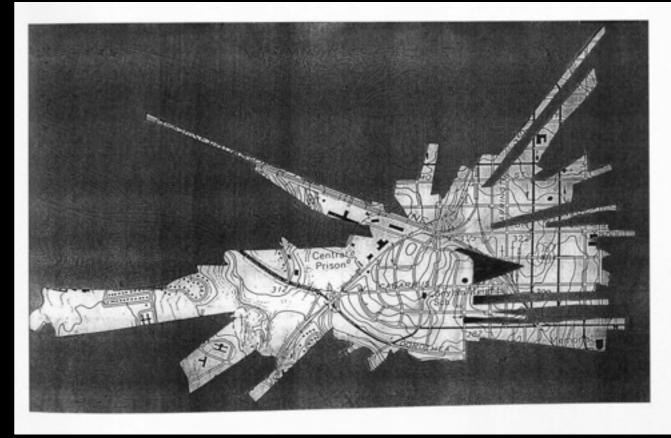




Absentee Landlords

Denis Wood Everything Sings: Maps for a Narrative Atlas (2010)





View Sheds Denis Wood Everything Sings: Maps for a Narrative Atlas (2010)