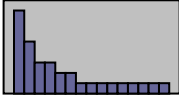




Contextual Authority Tagging: Cognitive Authority through Folksonomy

Terrell Russell
SILS @ UNC-CH
CRADLE Seminar
Friday, September 30, 2005

Folksonomy

- Relatively new way to categorize things
 - Social
 - Easy
 - Messy
- But also traditionally behaved
 - Follows power law distribution 
 - Stabilizes over time





Cognitive Authority

- Hubs and Authorities (Kleinberg)
 - Hubs → many outlinks
 - Authorities → many inlinks
- Authority can be of two types (Wilson)
 - Administrative
 - Cognitive



Contextual Authority Tagging

... can only show who is “an authority”,
(cognitive)

not who is “in authority” ...
(administrative)



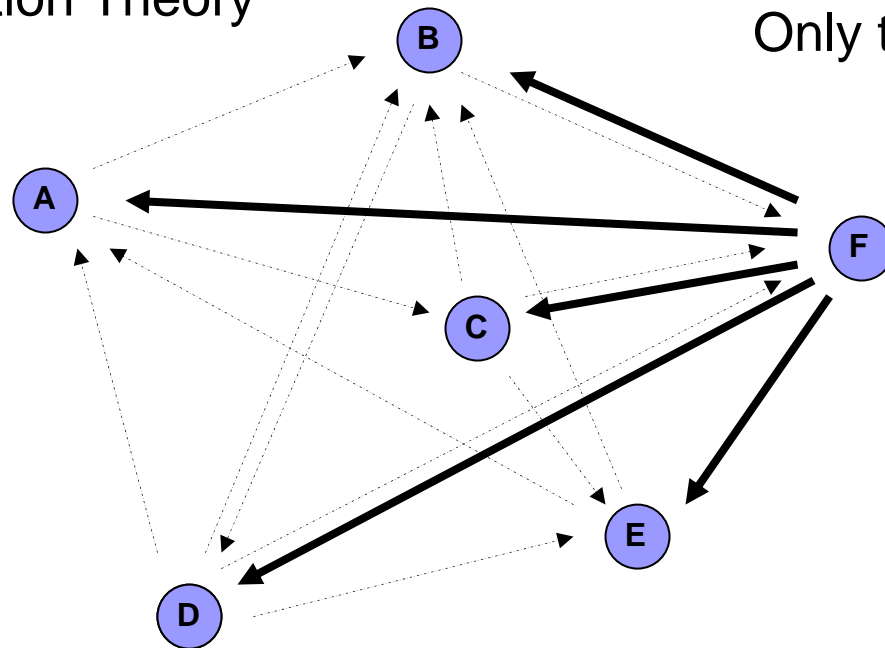
The Context of it All

- The Mechanic and the Tax Attorney.
- I trust them both, but within different realms.

Aggregate Trust Models

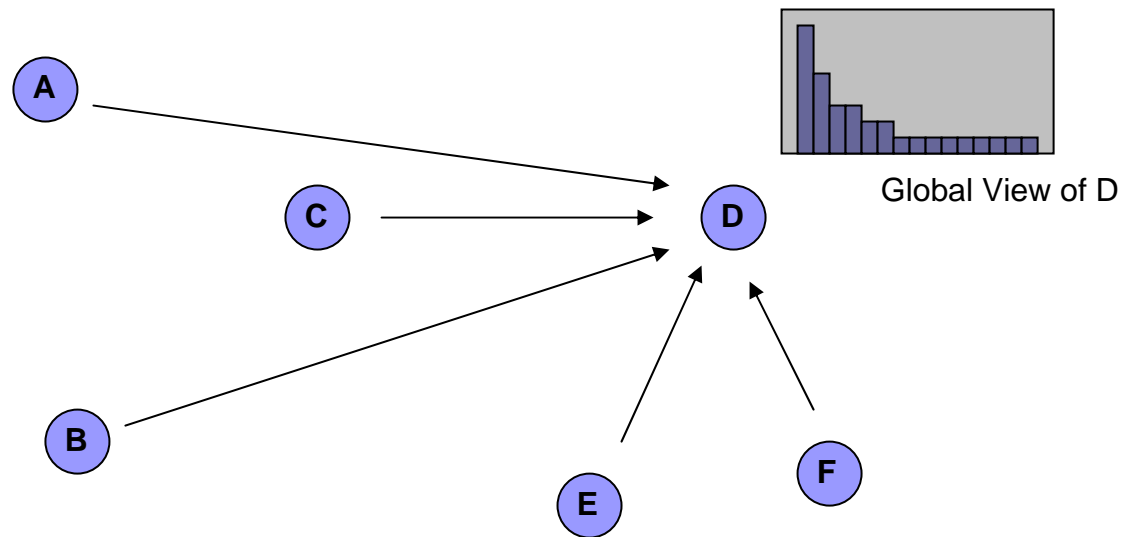
- Computer Science
- Bots
- Auction Theory

All trust is equal
Only the amount varies



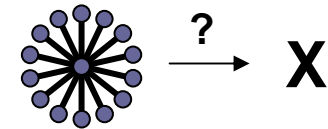
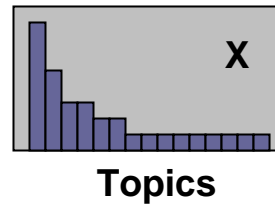
Contextual Authority Model

- More like how we interact as humans
- Captures what different people know about different people

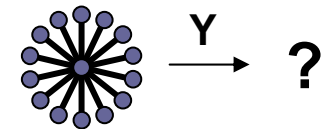
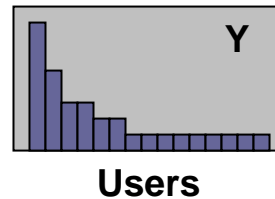


The Four Views

What is User X an authority on?



Who is an authority on Topic Y?





Future Work

- Work out the math
- Write bulletin board plug-in
- Watch and Learn



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