



# ANALYZING THE CREATIVE EDITING BEHAVIOR OF WIKIPEDIA EDITORS THROUGH DYNAMIC SOCIAL NETWORK ANALYSIS

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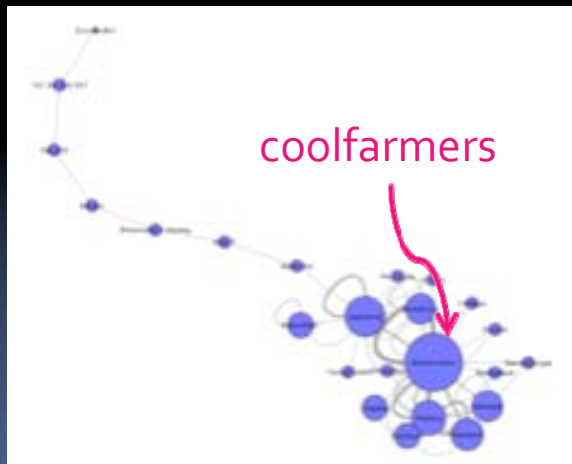
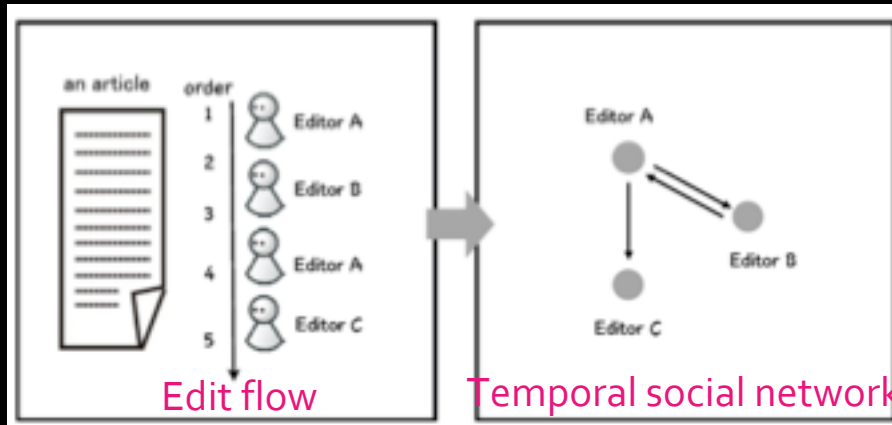
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# Summary

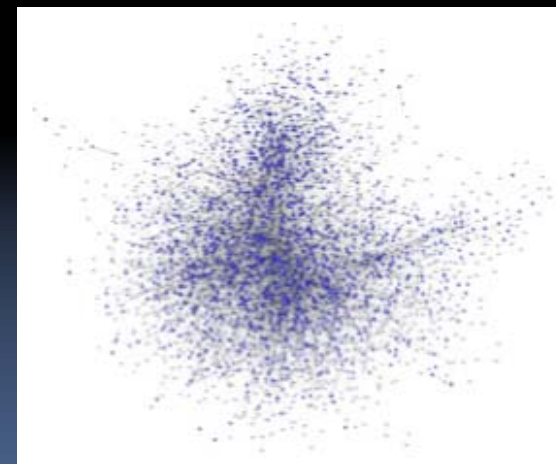
- Analyze Creative editing patterns of Wikipedia using dynamic social network analysis
  - The edit flow among contributors into a temporal social network  
→ *Sequential Collaboration Network*
- “*coolfarmers*” : the most creative Wikipedia editors
- Look at the discussion pages of these potential coolfarmers
  - Two types of editors with different editing patterns:  
→ *mediators* and *zealots*
- “*egoboosters*” : negative aspects of active contributors
  - Egoboosters’ network patterns :  
→ *Snake, Wheel, and Star*
- Finding suitable and hard-to-spam metrics for identifying the most valuable contributors to Wikipedia
  - e.g.) proposing alternate ranking systems for the quality of articles based on the quality of contributors.

# Sequential Collaboration Network:

A temporal social network of the edit flow



The editing pattern of "Mozart in Italy"



The editing pattern of "Australia"

What communication and coordination mechanisms are these swarm of editors using to produce top-rated article?

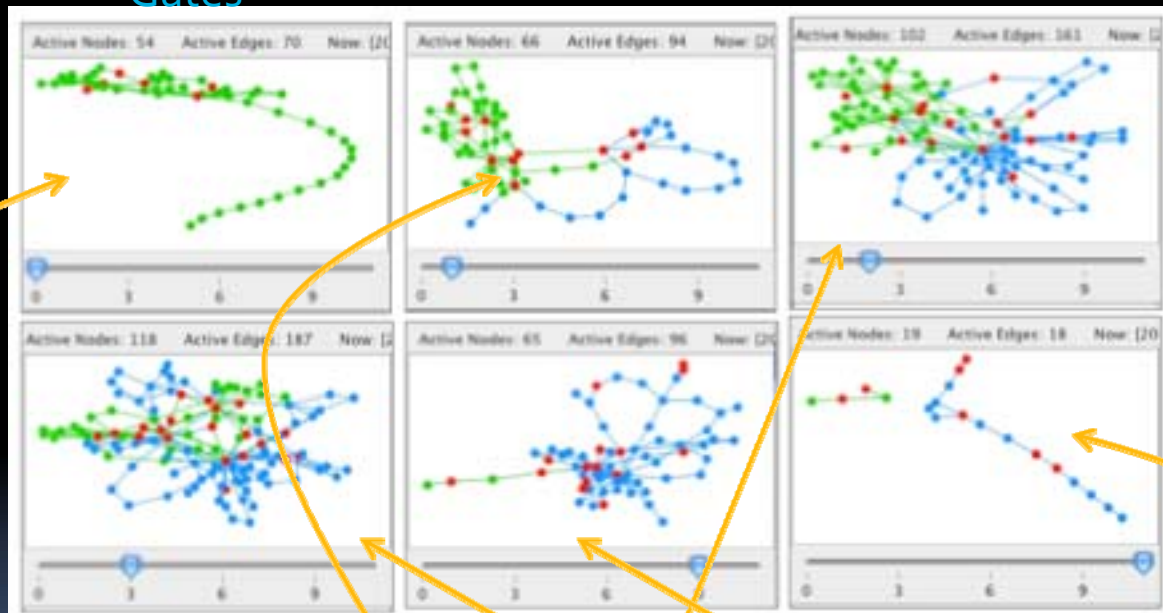
# THE ARREST OF HENRY LOUIS GATES JR.



source: Wikipedia

# Coolfarmer Editing Patterns

Henry Louis Gates vs. Arrest of Henry Louis Gates



Jul.18

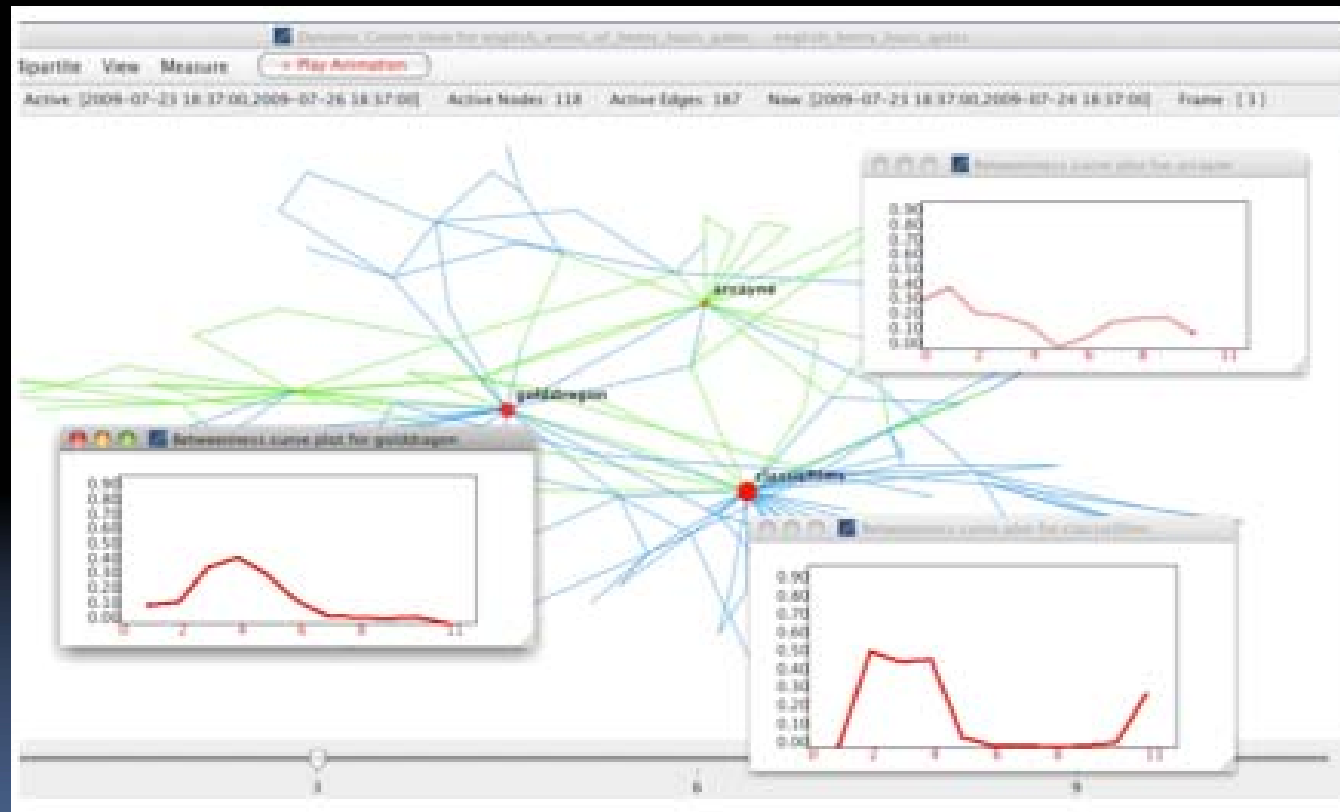
Jul. 24

Jul. 30

time

Henry Louis Gates was arrested.

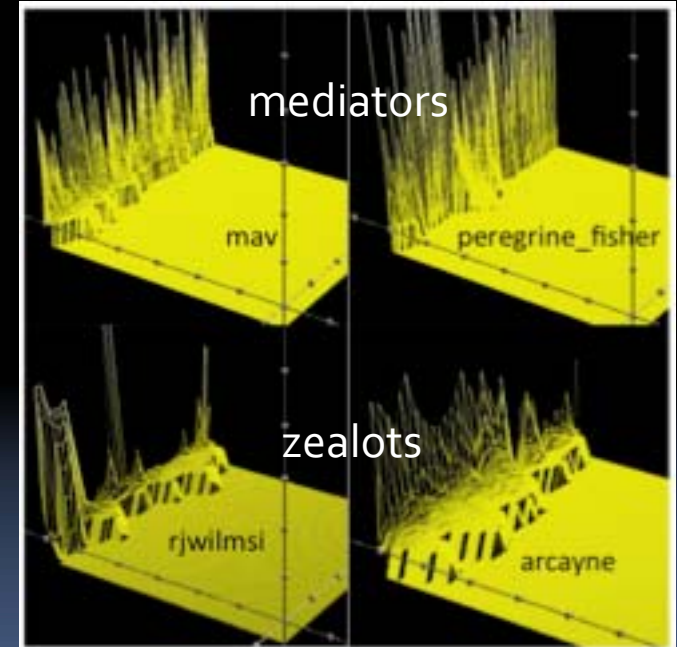
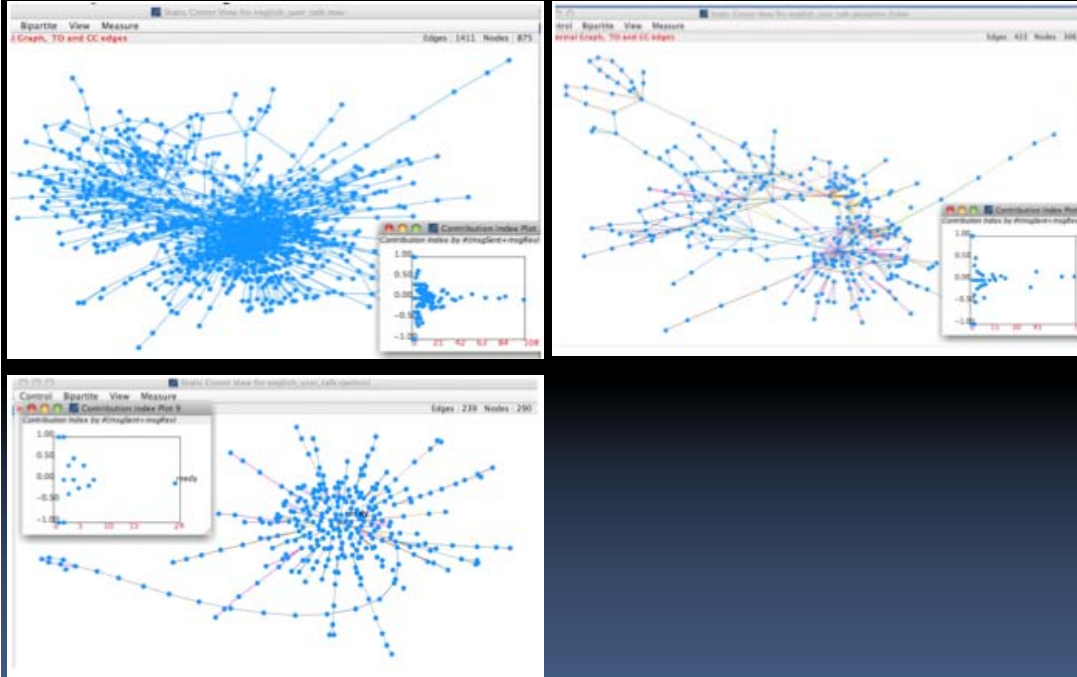
# Temporal change of betweenness of key contributors



→ Look at the discussion pages of these potential coolfarmers

# Potential Coolfarmers' Discussion Page

Temporal social surfaces



→ Look at the more negative category of Wikipedians

# Egoboosters

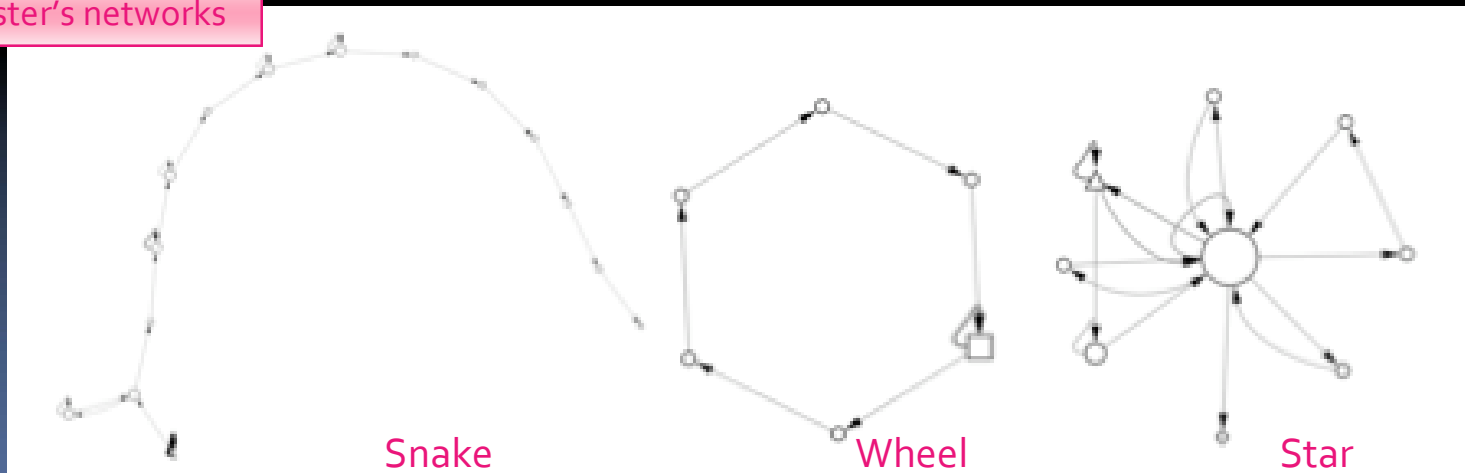
“[...] people take action to enhance and protect their reputation, because it has value for them [...]” ( Bromley 1993 )

“the top reasons for Wikipedians to collaborate were fun and ideology” ( Nov 2007 )

## Egoboosters :

*Wikipedians who are spending most of their time polishing their own profile*

Egobooster's networks



Degree of control

small



high

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