"Computer-Assisted Reading" and other Discoveries from Quantitative Social Science

Gary King

Institute for Quantitative Social Science Harvard University

(Crimson Conversations Talk, Riverside, CT, 4/12/12)

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 - We now read a tiny fraction haphazardly, and delude ourselves into thinking we understand all we need

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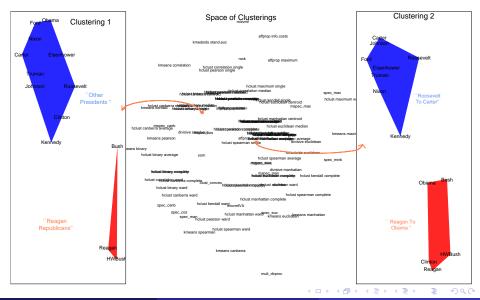
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- Question: How to organize clusterings so humans can understand?

Humans Can Zoom in to Read; We Can Zoom Out

You choose one (or more) clustering, based on insight, discovery, useful information,...



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Evaluation: More Informative Discoveries

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 - Both scholars preferred our insight to their's

- David Mayhew's (1974) famous typology

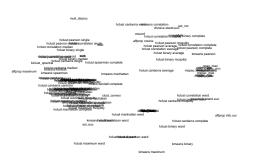
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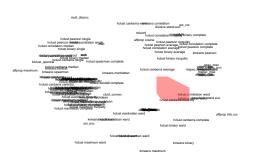
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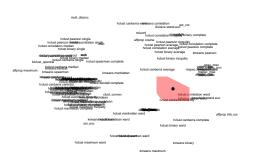
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- Apply our method



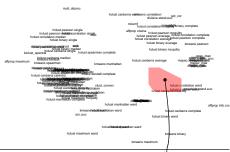
The space of clusterings



Found a region with particularly insightful clusterings



Let's look at **one clustering** in this region



Clusters in this Clustering



Clusters in this Clustering



Credit Claiming Pork

Credit Claiming, Pork:

"Sens. Frank R. Lautenberg (D-NJ) and Robert Menendez (D-NJ) announced that the U.S. Department of Commerce has awarded a \$100,000 grant to the South Jersey Economic Development District"

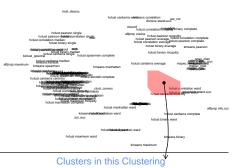


Clusters in this Clustering



Credit Claiming, Legislation:

"As the Senate begins its recess, Senator Frank Lautenberg today pointed to a string of victories in Congress on his legislative agenda during this work period"





Advertising:

"Senate Adopts Lautenberg/Menendez Resolution Honoring Spelling Bee Champion from New Jersey"

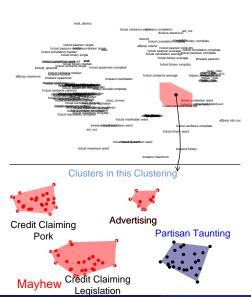


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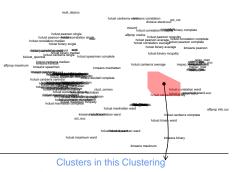
Partisan Taunting:

"Republicans Selling Out Nation on Chemical Plant Security"



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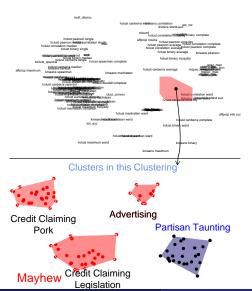
"Senator Lautenberg's amendment would change the name of...the Republican bill...to 'More Tax Breaks for the Rich and More Debt for Our Grandchildren Deficit Expansion Reconciliation Act of 2006"





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Explicit, public, and negative attacks on another political party or its members



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Taunting ruins deliberation

In Sample Illustration of Partisan Taunting

Taunting ruins deliberation



Sen. Lautenberg on Senate Floor 4/29/04 "Senator Lautenberg Blasts Republicans as 'Chicken Hawks' " [Government Oversight]

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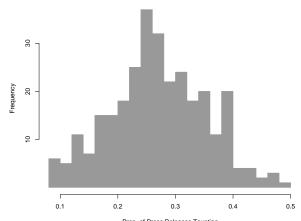
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- "Every day the House Republicans dragged this out was a day that made our communities less safe." [Homeland Security]

- Discovered using 200 press releases; 1 senator.

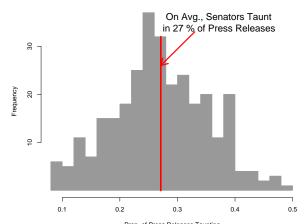
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- Electoral activity: ballot images, precinct-level results, individual-level registration, primary participation, and campaign contributions

Some More New Data Examples

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- Scholarly data: the replication movement in academia, led in part by political science, is massively increasing data sharing

For more information



http://GKing.Harvard.edu

(Why Johnny Can't Classify)

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- Now imagine choosing the optimal classification scheme by hand!

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 - → you can't have both!