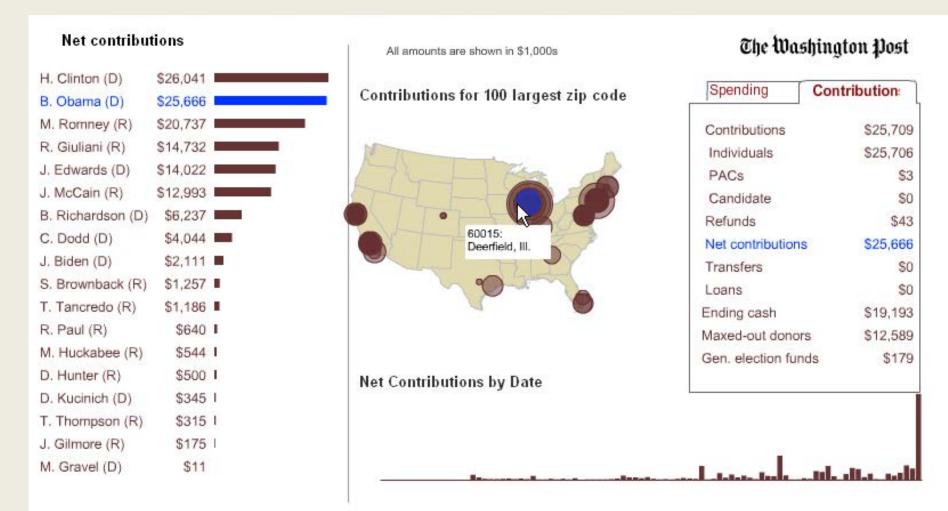
Visualization as a reporting tool

Sarah Cohen
Walter Cronkite School of Journalism

Goals

- Combine place and time to find the most representative or compelling examples to investigate
- Link organizations and people in proper chronological order
- Integrate structured and unstructured data
- Move toward visualizations for publication, in print and on the Web



Map and timeline show net contributions

Report for: • Current filing period • Cycle-to-date

Overview

Contributions

Spending Primary only

Democrats

Name	ime		Net Spending	Ending cash	Outstanding debt	Burn rate	
B. Obama		\$36,002 🔺	\$29,747	\$24,940 🔺	\$1,105 🛦	82.6% 🔻	
H. Clinton		\$13,788 ▼	\$27,645 🔻	\$29,186 🔻	\$7,577 ▲	200.5% 🛦	
J. Edwards		\$3,906 ▼	\$4,649 🔻	\$7,058 🔻	\$9,073 ▲	119.0% 🔻	

Net spending is operating expenses + exempt expenses - offsets. Burn rate is net spending / net contributions

Republicans

Name	Net contributions	l	_	Outstanding debt	Burn rate	
J. McCain	\$11,664 🔺	\$10,365 🔺	\$5,198 🔺	\$5,535 🛦	88.9% 🔻	

A sparkline is an small, intense word-sized graphic

– Edward Tufte,

By type of program

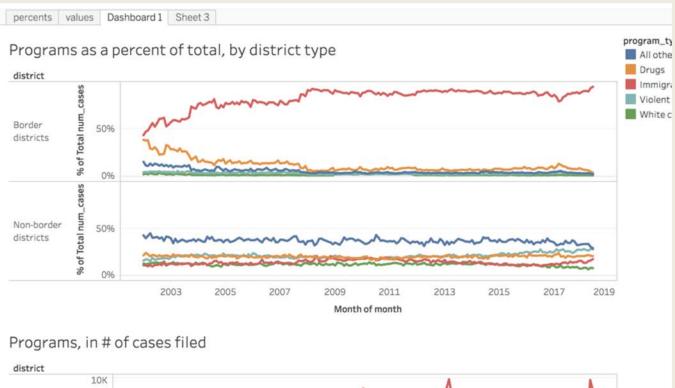
Program	1995 2000	1996 2001	1997 2002	1998 2003	1999 2004	5-year totals
Subsidies	\$6,061,941	\$6,494,147	\$6,750,110	\$12,260,115	\$17,311,068	\$48,877,382
<u> </u>	\$18,826,451	\$15,772,912	\$15,014,307	\$10,070,606	\$8,554,388	\$68,238,665
Direct payments	\$0	\$6,414,273	\$6,601,778	\$6,797,019	\$6,583,348	\$26,396,418
<u></u>	\$6,113,644	\$5,045,602	\$5,651,569	\$5,771,002	\$5,676,769	\$28,258,586
Counter Cyclical / Market loss	\$6,039,961	\$0	\$0	\$3,382,325	\$6,587,431	\$16,009,717
V	\$6,552,483	\$5,703,783	\$4,284,267	\$478,798	\$1,605,087	\$18,624,418
Marketing loan programs	\$0	\$0	\$1,693	\$94,456	\$3,059,214	\$3,155,363
programs	\$4,292,105	\$4,624,342	\$4,125,220	\$2,113,094	\$894,947	\$16,049,709
LCP	\$0	\$0	\$0	\$0	\$0	\$0
^.	\$0	\$0	\$640,609	\$0	\$0	\$640,609

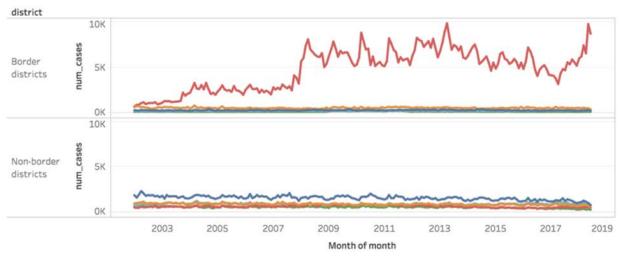
% never arrested before	Column Label							
Row Labels		2002	2010	2011	2012	2013		
■ New York City								
Total	46%	43%	42%	42%	42%	41%		
16-19	71%	67%	66%	65%	65%	64%		
20-24	55%	47%	47%	46%	46%	45%		
25-29	42%	43%	38%	39%	40%	40%		1
30+	36%	34%	31%	31%	31%	32%		
Black	39%	35%	33%	32%	32%	31%		\
Hispanic	49%	45%	45%	45%	44%	44%		\
White	55%	57%	57%	59%	57%	56%		^^
Asian/Indian								
Female								/
Male								
Bronx	4470	40/0	3//0	3//0	3//0	30/0		
- DI UIIX								

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Portfolio	2011	2012	2013	2014	2015	2016	2011	2012	2013	2014	2015	2016
4-8 Manhattan			٠				•	•	•	•	••	
115th Street	•		•				•	•	•			•
Amsterdam portfolio	•			٠				٠	•	٠		
Beacon	•		•		•		•		•		•	•
COSO Manhattan Ave.		•	••	•	•				•		•	
Dermot	•	٠			•	•	•	•	•		•	•
Friendset		•			•				٠			٠
Hells Kitchen	•	•		•			•		•	•		•
Simon Development		٠				•	•	•	•	•	••	•
Tahl-Propp Equities	•		•	٠	٠	•	•	•	•	•	•	•
Treetop 1			•	•		•	•	•	•	•	•	•
Treetop 2				•				•				





THE WASHINGTON POST

Results Met With Indifference, Indignation

lead levels for more than 4,000 of the 6,118 homes tested. The District map below shows only the households with lead readings 10 times the limit set by the Environmental Protection Agency-15 parts per billion. An informal, door-to-door survey of residents in selected neighborhoods revealed little interaction between neighbors—including those whose homes tested very high and those whose homes had not been tested. Many residents seemed uninformed or unconcerned about the health dangers posed by lead in

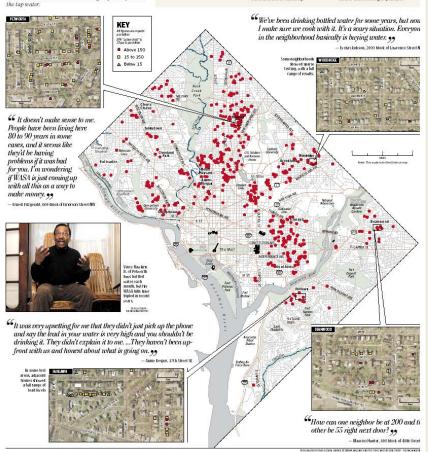
HOW THIS MAP WAS CREATED:

HOW THIS MAP WAS CREATED:

**ROMMARCH QOOD 15 JAILARY, the water was tested in more than 6.100 D.C. homes. This map represents lead readings from the second draw of water, using a sample taken neet two minutes after the Lap was furned on an the morning. These second readings are expected to produce second readings are expected to produce produced to the control of the produce of the control of greater, previously unforeseen problem

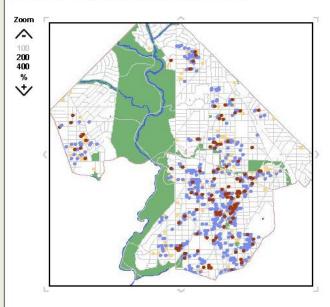
■ The Post database is based on lead-testing results provided by Dorothy Brizilli, a city activity two operators in the provided of the provided of two site monitoring D.C. government. The Post natched the results against property records to obtain more detail on the nones. Post reporters also verified many of the individual results with residents with Water and Sever Authoritis. Water and Sewer Authority.

■ Errors can occur in the readings for a range of reasons. The water samples channed by readent volunteers, can be difficult to take correctly. Errors in data entity and illegible writing also can affect accuracy. The scanning and matching process in moduces another potential source of error. WAS has refused to expect of error. WAS has refused to Errors was considered to the control of the process in source of error. WAS has refused to the control of errors was hard to the control of the errors with the control of the errors was not expected to the errors with the errors was not expected to the errors when the errors was not expected to the errors when the errors was not expected to the errors when the errors was not expected to the errors was not expected to the errors when the errors was not expected to the errors when the errors was not expected to the errors was not expected to the errors when the errors was not expected to the errors was not expected to the errors was not expected to the errors when the errors was not expected to the errors when the errors was not expected to the errors was not expected to the errors when the errors was not expected to the errors was not expected to the errors when the errors was not expected to the errors when the errors was not expected to the errors was not expected to the errors when the errors was not expected to the errors was



D.C. Lead Test Results: Ward 4

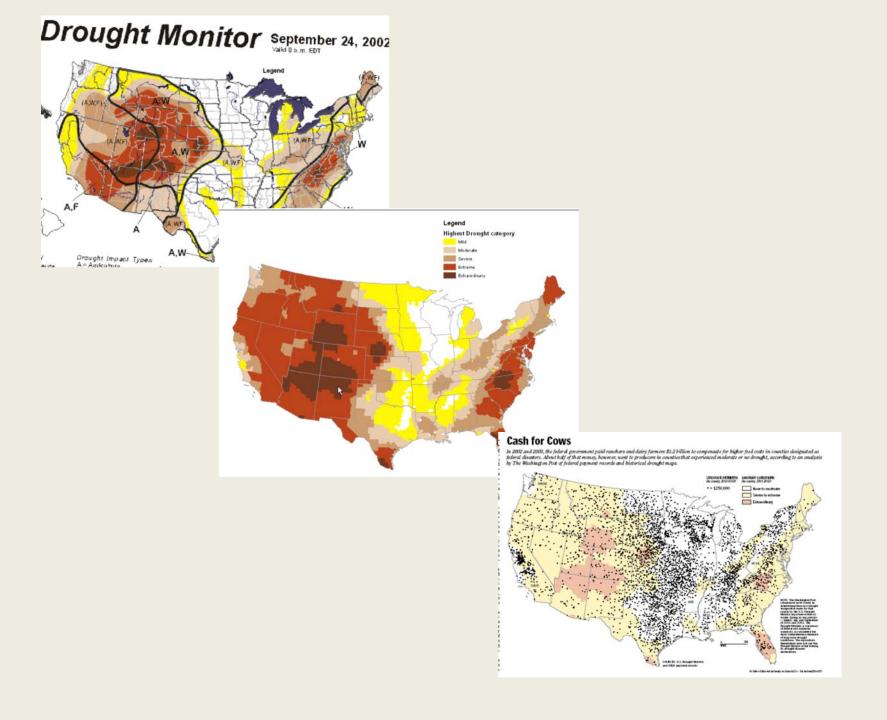
Click on the dots to see first and second draw lead test results for those homes. You can zoom in by clicking on the zoom scale below and to the left. You can move around the ward by clicking the arrows at the edges of the map.



Legend

Results of 2nd draw

- 15 ppb and below
- Between 15 and 150 ppb

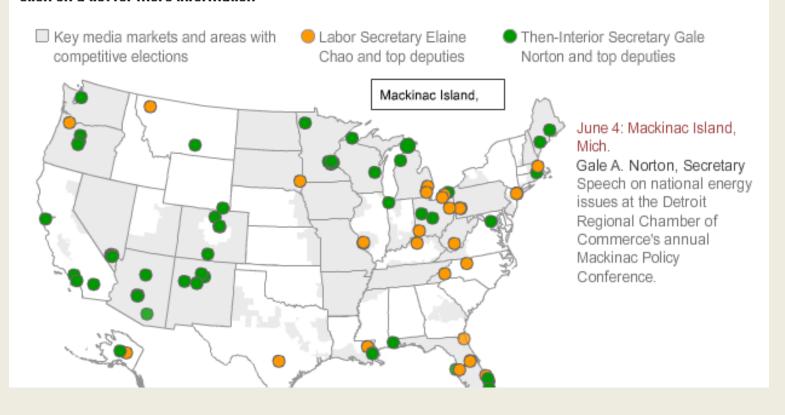


Rove's Asset Deployment

Before the 2004 election, the White House political team directed appointees to tout grants, polic decisions and other administration actions in competitive states for the presidential race and key media markets. Top officials also traveled on official business to districts with close congression elections in coordination with the president's team.

The Washington Post analyzed the travel of two cabinet members and their immediate deputies More than three-quarters of the trips in the final five months of the election were in areas identifie by the White House more a year earlier, according to documents obtained by congressional investigators. Many of the rest were in areas with close congressional races.

Click on a dot for more information



=	qryForChe	ecking : Select	Query								
	Departme	Edited	FactChecked	l Lin	kToOrig	TravelDate	OfficialName	OfficialTitle	LocationCity	Locatio	Description
•	Interior 🔽	Yes	Yes		www.doi.q ws/040902 htm	9/2/2004	Craig Manson	Assistant Secretary	Bayfield	VVI	At Apostle Islands National Lakeshore, announced the completion of its wilderness study.
	Labor	ov/opa/m ess/msh		www.dol.g a/media/pr nsha/MSH 41943.htm	/media/pr sha/MSH		Assistant Secretary	Las Vegas	NV	With the National Mining Association, presented awards to nine operatio for their safety records.	
				n Amount		ount Notes		Program			
			_	e,			postle Islands				
			 N 	fining nted erations irds.	\$0	annound complet wilderne which w publishe Register Fed goving protect a norecont. .00 confere alliance safety armines. A awards health. E also the	e the ion of the park's ess study, as to be ed in the Fed r the next day. wanted to	t t			



By age



Click on a square to see more details and to locate it on the map

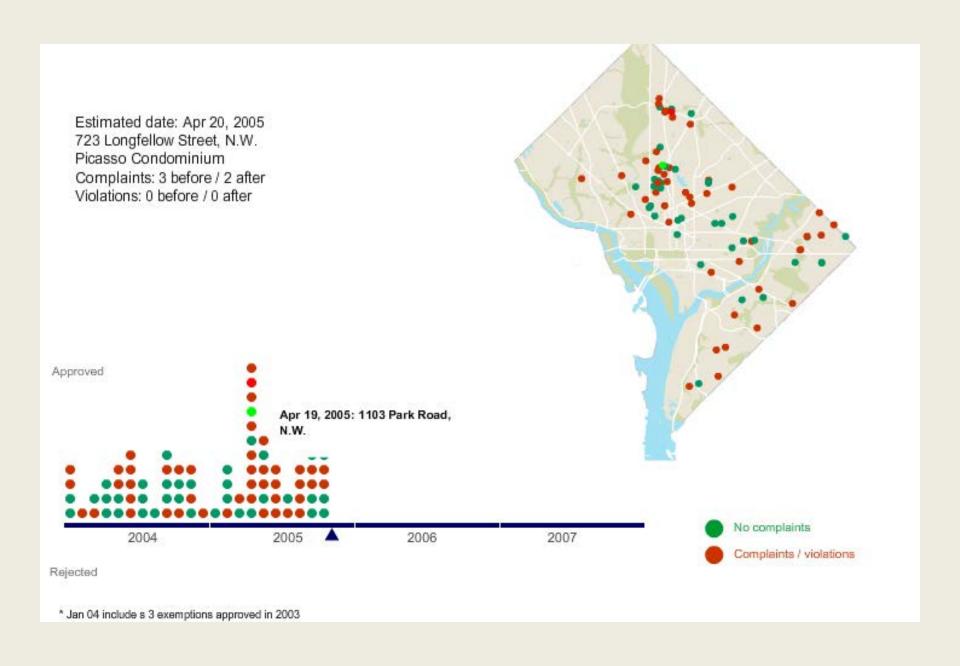
Close

FANKEU, Samou

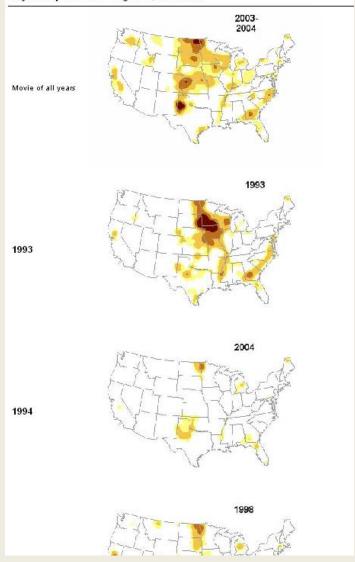
6/16/1966-5/11/2004 (age: 37)

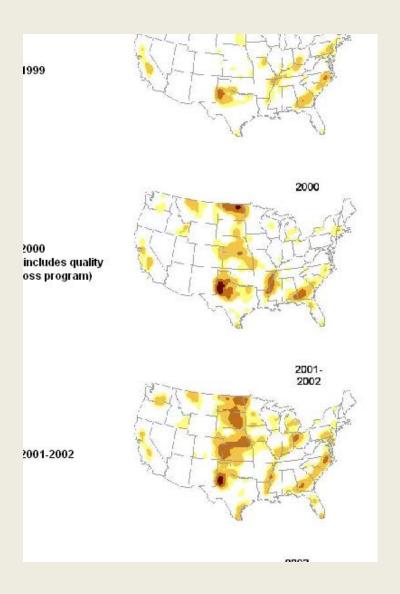
HIV/AIDS: AIDS

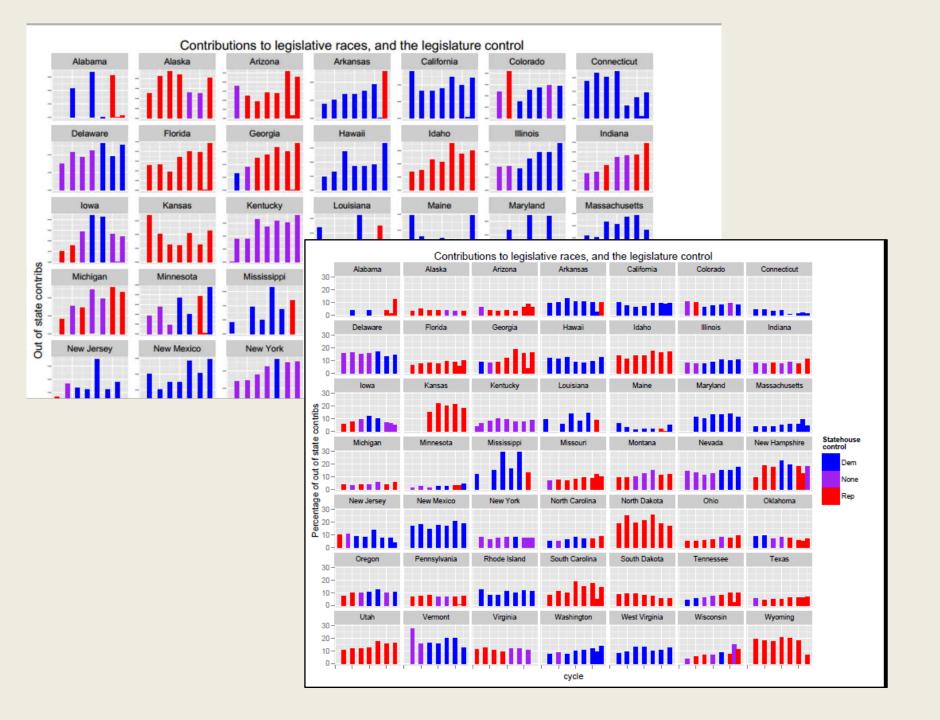
Lourdes Hospital, Padukah, KY



Major Crop Disaster Programs, 1993-2004



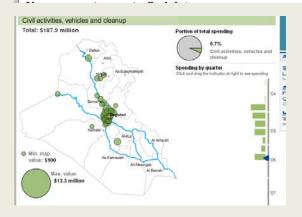


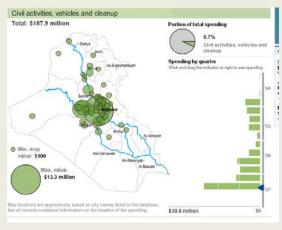


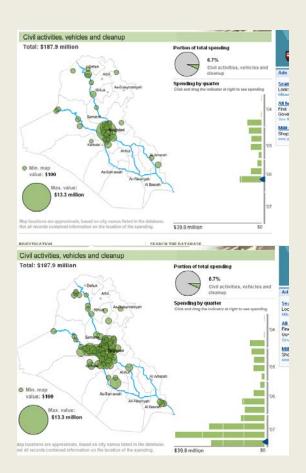
washingtonpost.com > World > Iraq

Money as a Weapon

The U.S. has spent at least \$2.8 billion under the Council Program in Iraq, which lets senior military officials solve relief and reconstruction" projects with minimal over effort. The money has been spread throughout Iraquanging from small payments for doors damaged in treatment plants. | About the CERP Database



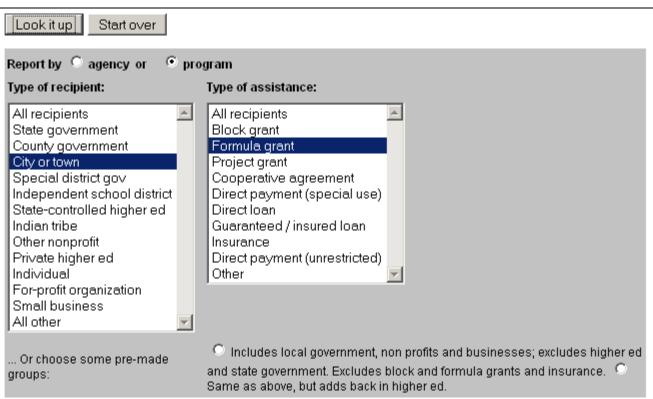


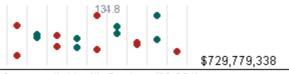


HHS grants and loans

This will retrieve a series of graphs showing grants and loans obligated by the Department of Health and Human Services by 1/2 year intervals. The red dots are election years; the green ones are non-election years. Source: FAADS, through June 2006.

Hold the "Ctrl" key on your keyboard down to select more than one entry in the boxes.

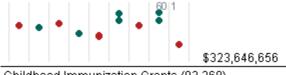






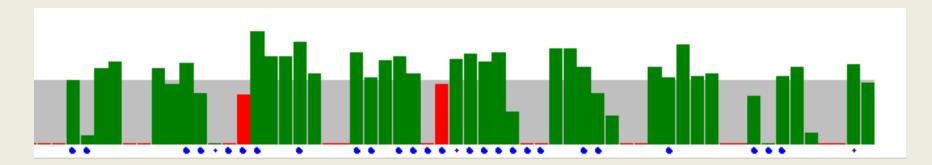


Hiv Prevention Activities-- Health Department Based (93.940)

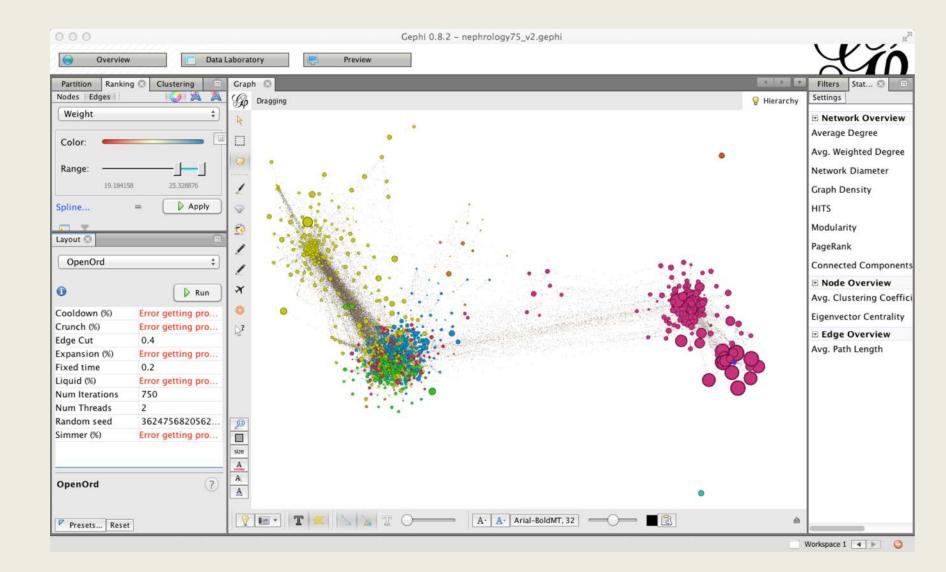


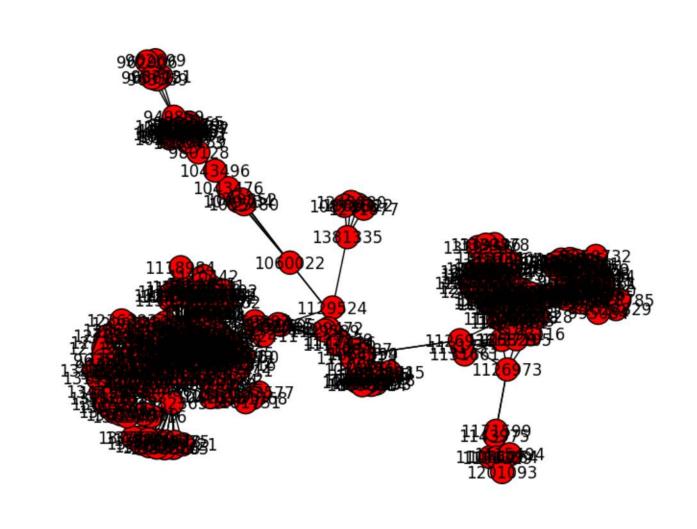
Childhood Immunization Grants (93.268)

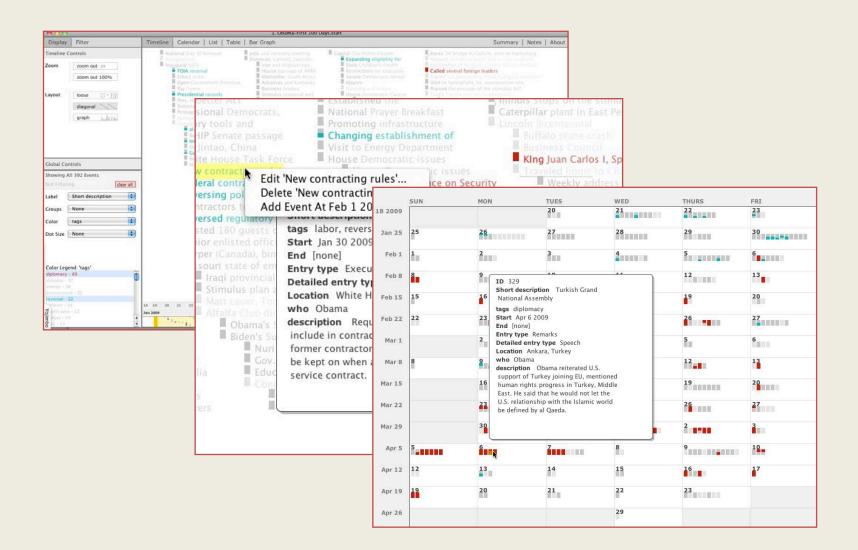


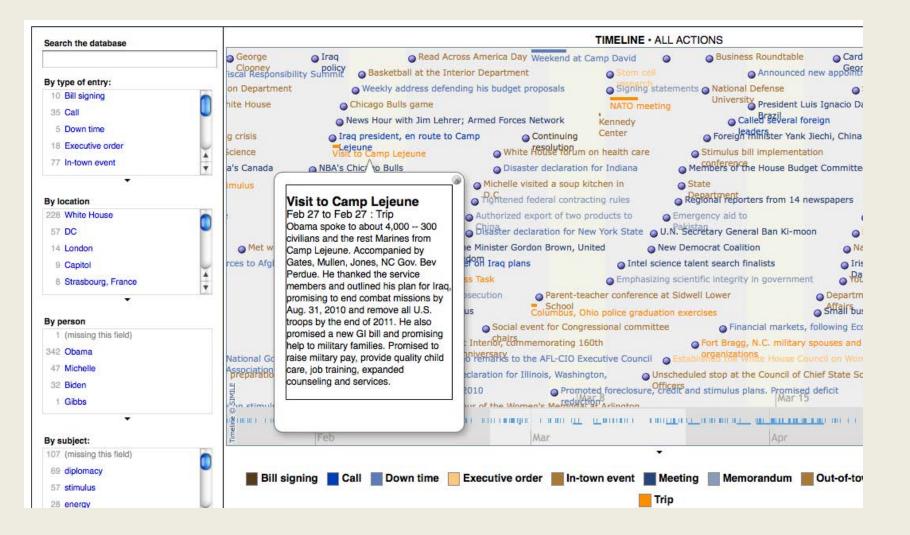


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	В	D	E	F	G	Н	1
1	Date	Time	Label	Description	Туре	City	Duration L
45	7/12/04	11:00 AM	Office time		Unschedul	DC	1:00 1
46	7/12/04	5:00 PM	Leave work		End	DC	6:00 1
47	7/13/04	7:25 AM	White House		White Hou	DC	1
48	7/13/04	9:15 AM	Sen. Bond		Congress	DC	1:50 1
49	7/13/04	9:30 AM	CIA briefing		Intel	DC	0:15 1
50	7/13/04	10:30 AM	Visa policy briefing		Staff	DC	1:00 1
51	7/13/04	11:30 AM	General counsel meeting		Staff	DC	1:00 1
52	7/13/04	12:00 PM	Joe Whitley		Staff	DC	0:30 1
53	7/13/04	12:30 PM	Alexander Haig phone call		Contact	DC	0:30 1
54	7/13/04	1:00 PM	Personal time		Personal	DC	0:30 1
55	7/13/04	2:00 PM	White House		White Hou	DC	1:00 1
56	7/13/04	4:00 PM	End day		End	DC	2:00 1
57	7/14/04	7:45 AM	Trip to Boston		Travel	DC	1
58	7/14/04	9:05 AM	Staff in Boston		Staff	Boston	1:20 1
59	7/14/04	9:15 AM	Fleet Center tour (DN Convention	site)	Local offici	Boston	0:10 1
50	7/14/04	12:00 PM	Charlestown Navy Yard		Media	Boston	2:45 1
31	7/14/04	2:30 PM	Leave to go home		Travel	Boston	2:30 1
52	7/14/04	5:30 PM	CNN Interview		Media	DC	3:00 1
53	7/14/04	6:00 PM	End day	Guess basd on how long they usua	End	DC	0:30 1
54	7/15/04	7:25 AM	White House		White Hou	DC	1
65	7/15/04	11:00 AM	Pittsburgh trip		Travel	DC	3:35 1
66	7/15/04	12:35 PM	Allegheny County Emergency Op	p. Center	Event	Pittsburgh	1:35 1

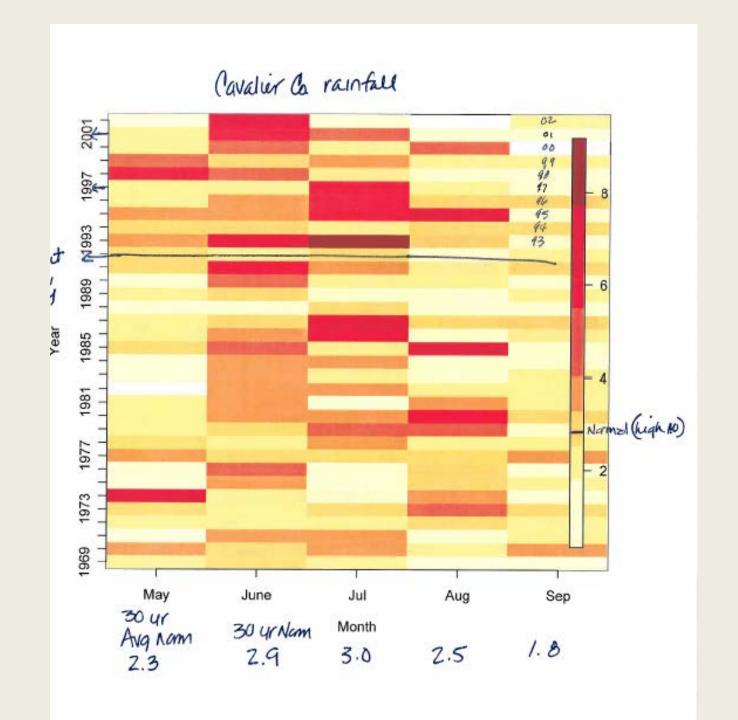




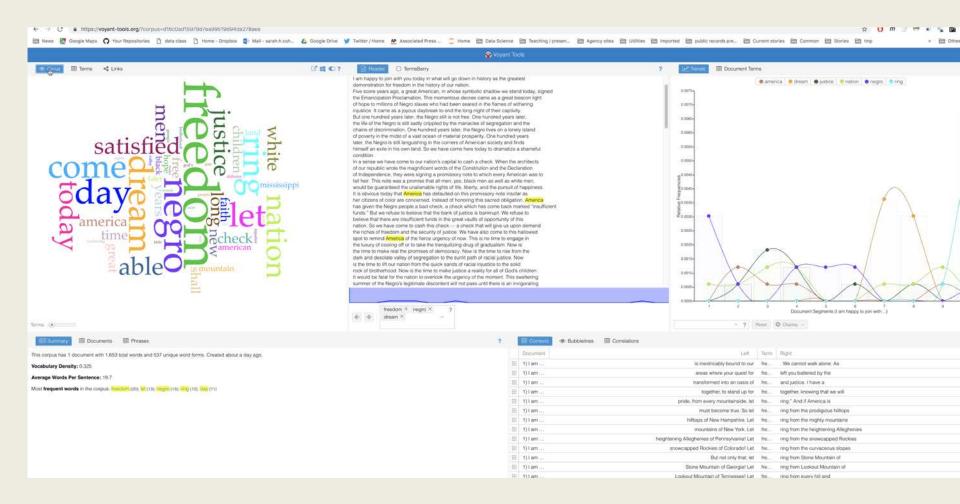




Resulting graphics at: http://www.washingtonpost.com/wp-srv/politics/obama/100days/



"I have a dream" speech in Voyant Tools



Tools

Structured data graphics

- R graphics / Shiny
- Flourish
- Tableau and Tableau Public
- D3 (javascript)
- Excel sparklines
- Google data studio

(Some simple maps included.)

Maps and geographic data

- Google maps
- GIS systems (ESRI Arcmap, QGIS, db extensions, Leaflet)

Networks

- Gephi project for networks
- Python and other programming languages

Text

- Voyant
- DocumentCloud
- Overviewdocs.com