

Introduction to the project

 A fascinating 'Big Data' problem: the DNSA Kissinger Collections contains more than 2 gigabytes of text comprising 17,000 meeting memoranda ('memcons') and teleconference transcripts ('telcons') detailing Kissinger correspondence during the period 1969-1977, comprising his tenure as National Security Adviser (1969-1975) and Secretary of State (1973-1977).

www.gwu.edu/~nsarchiv/nsa/publications/DOC readers/kissinger/

- This project is an attempt to leverage some of these computational techniques (eg 'word frequency/ngram analysis,' 'word collocation,' 'topic modeling,' 'network analysis,' 'computer-aided visualization')
- Not the first such problem to face social scientists and humanists: from
 Cliometrics to Cliodynamics historians and social scientists have grappled with new
 methodologies, tools, methods and readings/interpretations of quantitative data,
 adapting them from fields as diverse as Computer Science, Linguistics and
 Comparative Literature.
- 'Teaching the Learn'd Astronomer:' A new method or tool ('telescope') must confirm some of what is known about the heavens, but must also facilitate the discovery of all new worlds all the while facilitating new questions and new kinds of questions.

Tools for Text Analysis of Historical Documents

- Data Collection and Management
 - DownThemAll / FlashGotAll http://www.downthemall.net/
 - Microsoft Excel / OpenOffice
 - TextWrangler / SublimeText / NotePad http://www.barebones.com/products/textwrangler/
- Word Frequency and Correlation
 - AntConc by Laurence Anthony, PhD http://www.antlab.sci.waseda.ac.jp/software.html
- Topic Modeling
 - MALLET by Andrew McCallum and David Mimno http://mallet.cs.umass.edu/index.php
- Sentiment Analysis
 - LIWC2007 by James W. Pennebaker, PhD http://www.liwc.net/
- Visualization
 - Network Analysis: Gephi http://www.gephi.org
 - Visualization and Statistics: R http://www.r-project.org

A bit about the archive of correspondence — What are 'memcons' and 'telcons,' anyway?



September 13, 1971

MEMORANDUM FOR:

THE PRESIDENT

FROM:

HENRY A. KISSINGER

SUBJECT:

September 13 meeting with the Chinese Ambassador in Paris

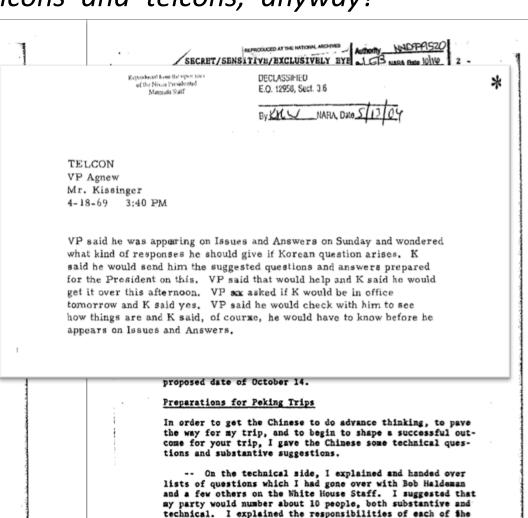
I met with Huang Chen, the Chinese Ambassador in Paris, for almost two hours on September 13 before my other session, primarily to lay the groundwork for your trip to Peking and my interim visit. This meeting, the third that we have had, was once again extremely cordial.

Announcement of Trips

The Ambassador read an oral note from Peking, the full text of which is attached at Tab A. In response to our messages of August 16 and September 1 the Chinese made the following points:

- -- They propose a four-day visit to Peking to make concrete arrangements for your trip. This should begin on October 20 (Peking time). I accepted this as it matched our proposals for length and timing.
- -- The Chinese proposed announcing my visit on October 14. I made clear why we had suggested September 21 or 22: in addition to making the necessary arrangements for my travagl, we preferred to announce my trip before Gromyko came to the U.S. on his annual visit to the UN. I explained that we did not want our announcement with the Chinese to look like a reaction to Gromyko's visit, during which the Soviets might well pin down your trip to Moscow, now that the conditions for it have been met in various negotiations. I said that I would have to check with you regarding the October 14 date for the announcement and asked them to let us know if they had any different views (i.e. moving it up) as a result of this discussion.

TOP SECRET/SENSITIVE/EXCLUSIVELY EYES ONLY



TOP SECRET/SENSITIVE/EXCLUSIVELY EYES ONLY



INFORMATION RESOURCES | MY ARCHIVE

HELP

SEARCH DOCUMENTS

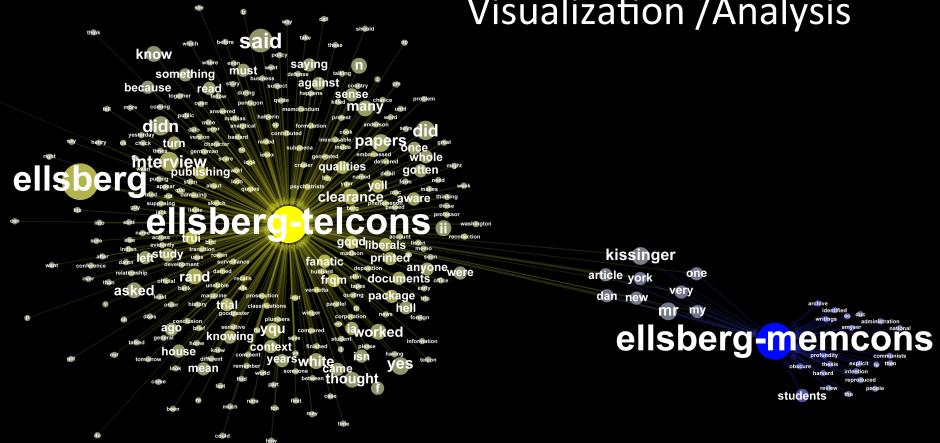
DOCUMENTS: FULL RECORD

Obtain and Examine the 'Metadata:' useful, descriptive information about the documents

 Add to Marked List 		docid	doctitle	date	classification	category	pages
Citation:	[Attendance at National Count		leas and		-		
Citation:	[Attendance at National Securit		[U.S. Military Assistance to Israel; Attached to Cover I	4-Jun-70		Memorandum of Conversation	
	Meeting; Best Available Copy]		[British Ambassador Freeman and Henry Kissinger Dis			Letter	
	Non-Classified, Memorandum of Te		Persian Gulf [Discussion of Middle East Negotiations]	5-Jun-70 6-Jun-70		Minutes Letter	
	•		Jordan		Top Secret	Minutes	13
	Conversation, Annotated Copy, Jan		Jordan		Top Secret	Minutes	1.
	1150 Local Time, 1 pp.		My June 10 Meeting with Ambassador Dobrynin		Top Secret	Memorandum	13
Collection: Kissinge	Vissinger Telephone Conversations		Cambodia		Top Secret	Minutes	1
	Kissinger Telephone Conversations	152	Mediterranean, Greece, Italy: NSSM 90	17-Jun-70	Secret	Memorandum of Conversation	
Item Number:	KA00001	153	[Meeting with Pakistani Ambassador Agha Hilaly]	17-Jun-70	Top Secret	Memorandum of Conversation	
			Middle East	22-Jun-70	Secret	Minutes	14
Origin:	United States. Assistant to the Pres		[Strategic Arms Limitation Talks Agreement]	23-Jun-70	Top Secret	Memorandum of Conversation	
	National Security Affairs		Verification Panel		Top Secret	Minutes	1
	,		Vietnam Cease-Fire and Peace Initiatives		Top Secret	Minutes	2
Location of	National Archives. Richard Nixon Pr		U.S. Military Assistance to Indonesia		Top Secret	Memorandum of Conversation	
Original:	ry and Museum. Henry A. Kissinger		[Meeting with Anatolii Dobrynin]		Top Secret	Memorandum of Conversation	
		100	The Middle East		Top Secret	Minutes	12
	nversation Transcripts (Telcons). C		U.S. Military Assistance to Indonesia		Top Secret	Memorandum of Conversation	
	e. Box 1. January 21-31, 1969		My Recent Conversations with Ambassador Dobrynin Defense Budget		Top Secret Top Secret	Memorandum Minutes	10
To dividuals /	Niven Dishard M. I. Volekov Baul A		Middle East		Top Secret	Minutes	1
Individuals/	Nixon, Richard M. Volcker, Paul A		My July 20 Meeting with Dobrynin		Top Secret	Information Memorandum	
Organizations	States. National Security Council		NSC Meeting: Vietnam Ceasefire and Possible Diplom		Top Secret	Memorandum of Conversation	
Named:			[Meeting with Indian Ambassador Jha; Attached to Co			Memorandum of Conversation	
			MBFR Verification Panel	30-Jul-70	Secret	Minutes	11
Participant(s):	Kennedy, David M.	169	Conversation with VorontsovMap RoomAugust 4,	4-Aug-70	Classification	Memorandum of Conversation	
Cubicata	Bureaugranu I Mactings and schod	170	Meeting between Israeli Ambassador Rabin and Mr. I	6-Aug-70	Top Secret	Memorandum	
Subjects:	Bureaucracy Meetings and schedu	171	Conversation with VorontsovAugust 7, 1970	7-Aug-70	Classification	Memorandum of Conversation	
Abstract:	David Kennedy indicates to Henry		Middle East	12-Aug-70		Minutes	9
	he would like to be invited to the n	173	[Discussion with Yitzhak Rabin]		Top Secret	Memorandum of Conversation	
		27.	German-Soviet Negotiations	17-Aug-70		Memorandum of Conversation	
	the National Security Council.		My Meeting Today with Vorontsov on Possible Summ		Top Secret	Action Memorandum	
Full Toytu	Posument image		Conversation with Brandt's Foreign Policy Advisor, Eg			Information Memorandum	
Full Text:	<u>Document image</u>	1//	U.S. Strategies and Forces for NATO (NSSM 84) [and]	31-Aug-/0	Top Secret	Minutes	17

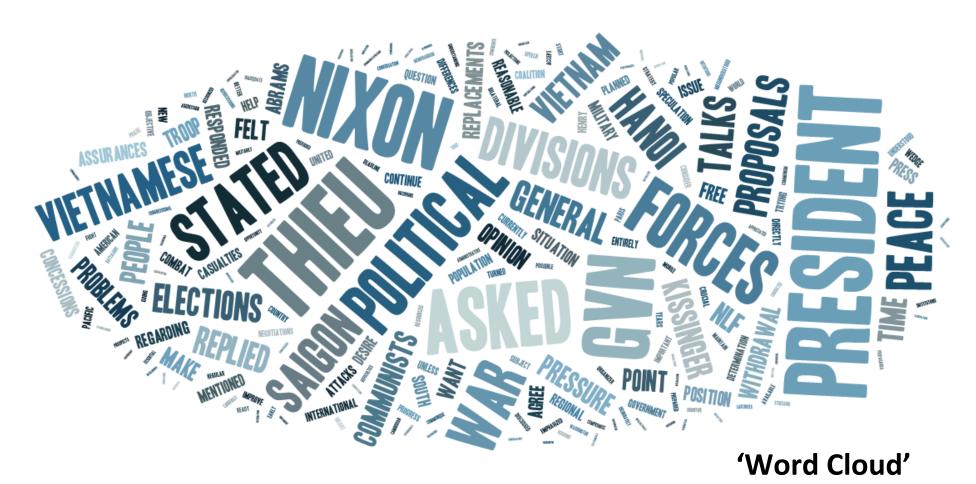
Durable URL for this record #

Today's Focus: Two Kinds of Network Visualization / Analysis

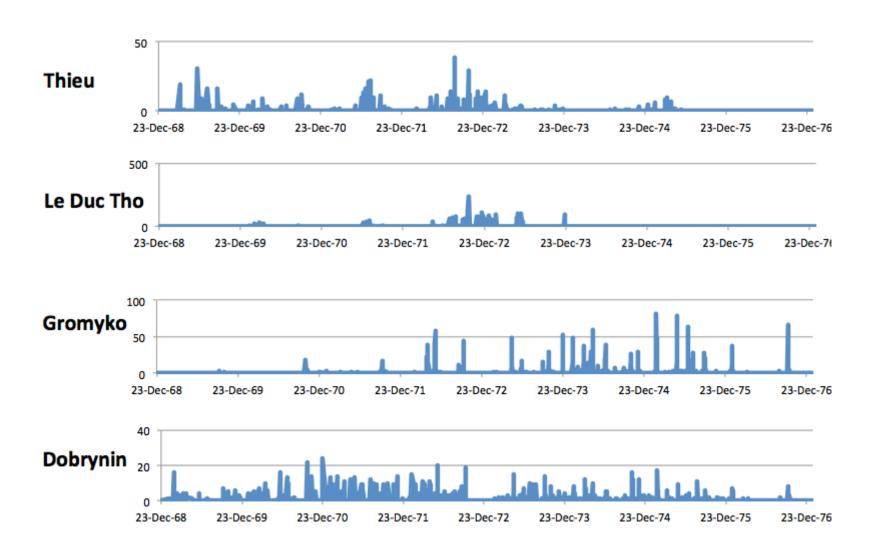


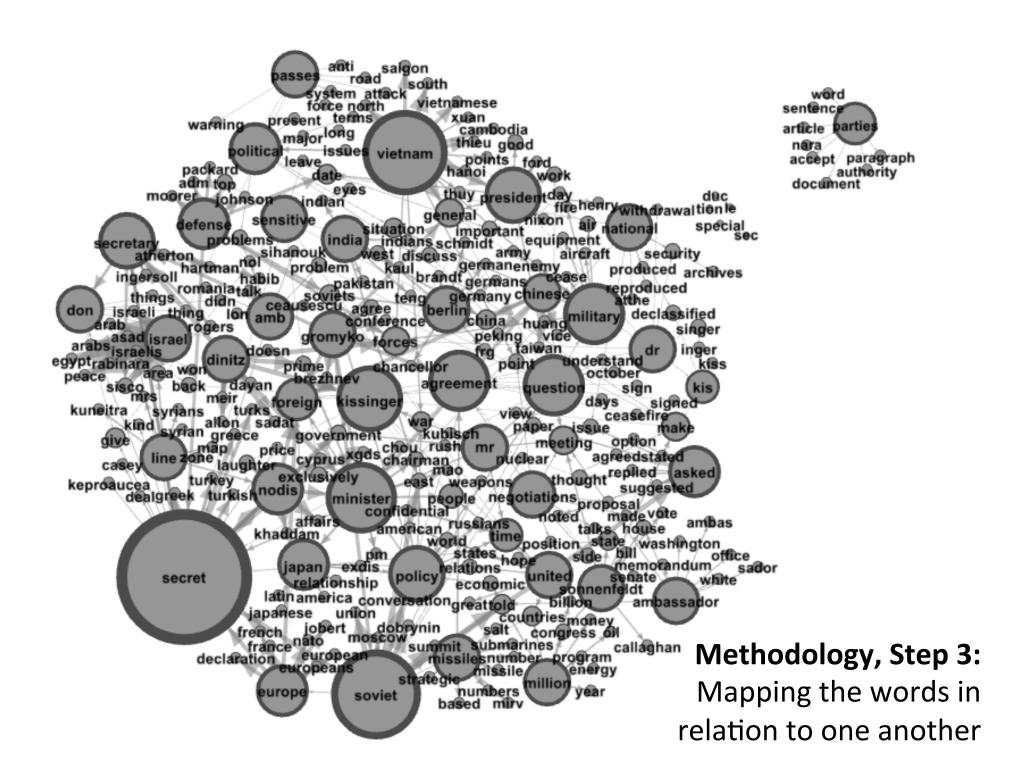
1. Word Collocation Analysis: Collocated Words (Telcons) <-> **Target Word** <-> Collocated Words (Memcons)

'Word/ Collocation analysis':
Counting the frequency of
all the words, combinations of words
and collocations of words

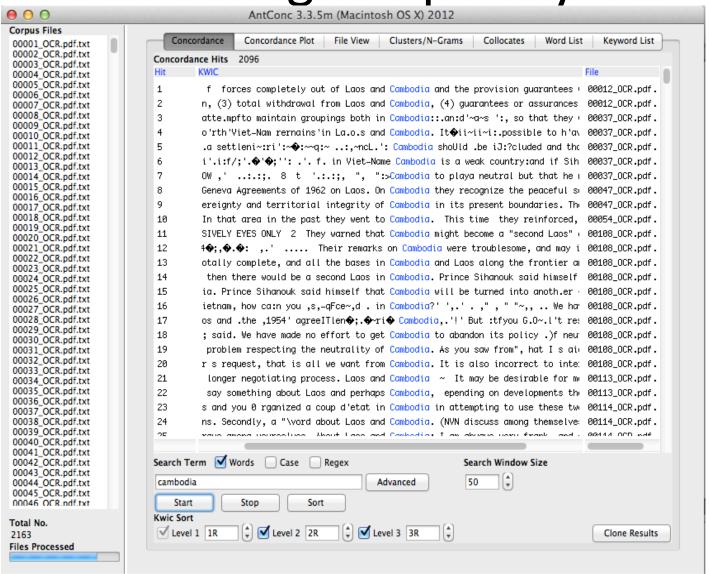


Counting the frequency of all the words and combinations of words



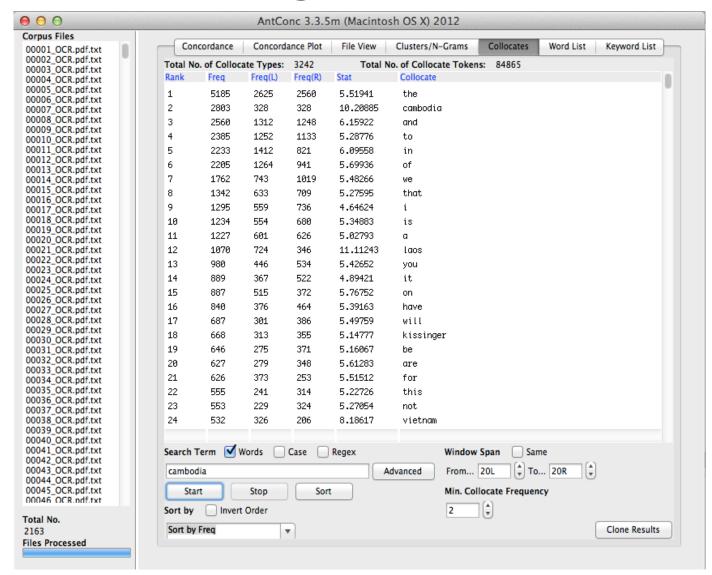


Counting Frequency:



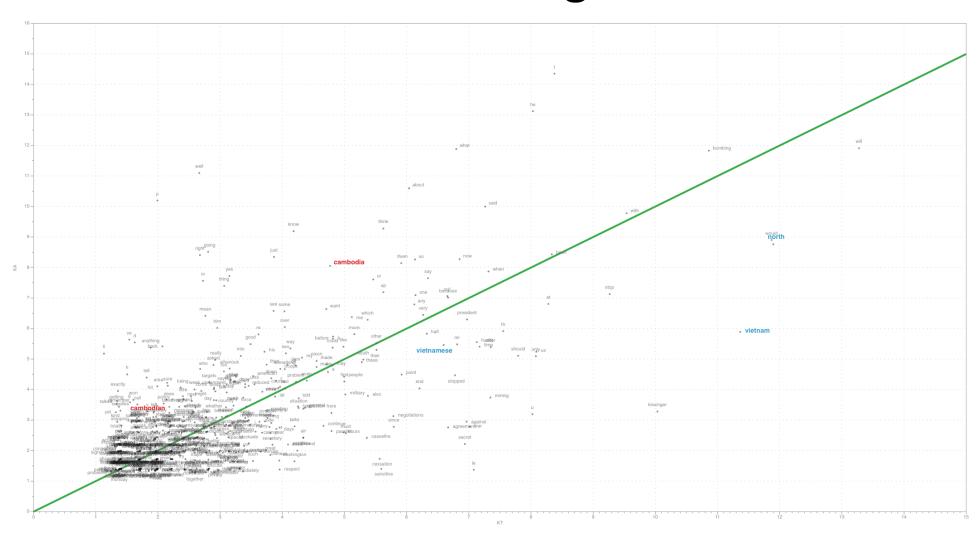
AntConc: http://www.antlab.sci.waseda.ac.jp/software.html

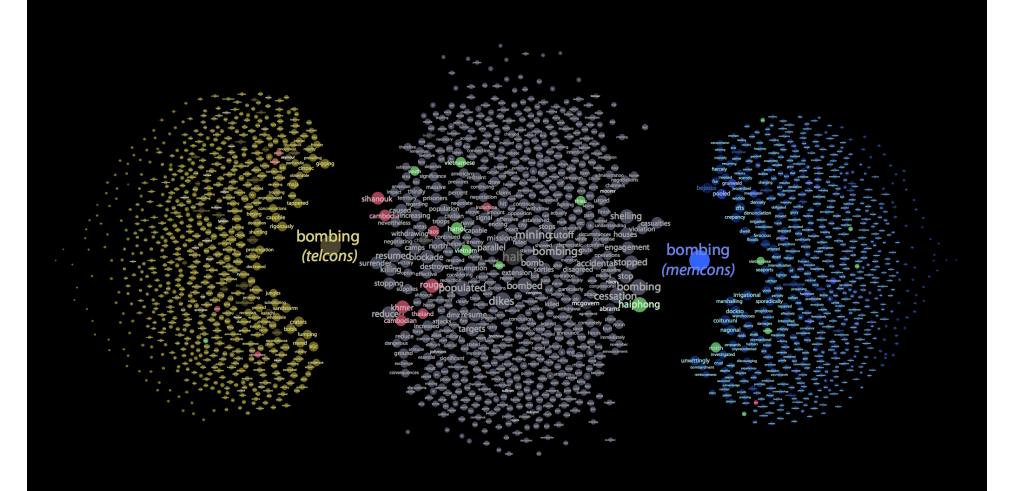
Counting Collocation:



AntConc: http://www.antlab.sci.waseda.ac.jp/software.html

Word Frequency Collocation: 'Bombing'



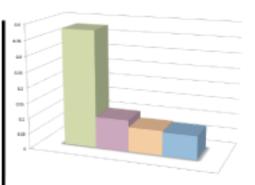


Gephi Visualization: Word Frequency Collocation, Target Word: 'Bombing'

'Topic modeling'

responded that more means for cadres Nixon mentioned that Hanoi has never had elections and is thus employing a double standard. Thieu pointed out that 56% of those "elected" in North Vietnam were women. This shows the magnitude of their manpower problem. He reiterated that there would be elections after the withdrawal of non-South Vietnamese forces. Thieu was prepared for good international supervision -- even without troops. President Nixon wondered whether the GVN could siphon off the political forces in the center to weaken the Viet Cong. Thieu responded that when we have a common position on our side, we can have a united front. What made the middle ground in Saigon so uncertain was the fear that the U.S. would withdraw support. Hence, many politicians were holding themselves available for a coalition government with the NLF.

President Nixon asked why not a united front now; the GVN is going to win and that is a great asset. Thieu stated very frankly of spirit that there was a sagging in Saigon. Many still believe that the Viet



North-South-Thieu-Vietnam .379

US-Nixon-Relations .102

Soviet-Dobrynin

Air-Military-Forces

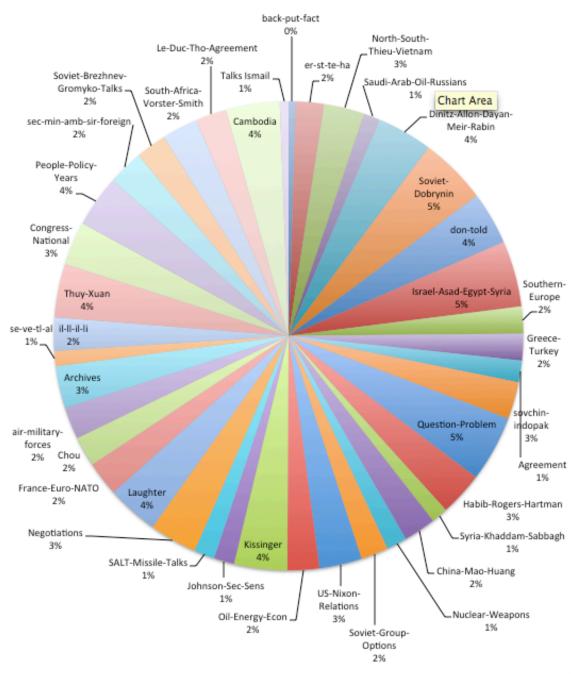
Documents per Topic

Topics are defined and assigned based upon the archive's content – a broad range of subject matter, geographical regions, and individual participants.

Topic Modeling:

MALLET

http://mallet.cs.umass.edu/



Methodology: 'Topic Modeling,' cont'd.

Assembling the documents into 40 'topics' grouped by word frequency

Computer-Generated Topic List

- back-put-fact
- Kissinger
- er-st-te-ha
- Johnson-Sec-Sens
- North-South-Thieu-Vietnam
- SALT-Missile-Talks
- Saudi-Arab-Oil-Russians
- Negotiations
- Dinitz-Allon-Dayan-Meir-Rabin
- Laughter
- Soviet-Dobrynin
- France-Euro-NATO
- don-told
- Chou
- Israel-Asad-Egypt-Syria
- air-military-forces
- Southern-Europe
- Archives
- Greece-Turkey
- se-ve-tl-al

- Agreement
- il-ll-il-li
- sovchin-indopak
- Thuy-Xuan
- Question-Problem
- Congress-National
- Habib-Rogers-Hartman
- People-Policy-Years
- Syria-Khaddam-Sabbagh
- sec-min-amb-sir-foreign
- China-Mao-Huang
- Soviet-Brezhnev-Gromyko-Talks
- Nuclear-Weapons
- South-Africa-Vorster-Smith
- Soviet-Group-Options
- Le-Duc-Tho-Agreement
- US-Nixon-Relations
- Cambodia
- Oil-Energy-Econ
- Talks Ismail

Librarian-Generated Topic List

- Wars in Indochina: not only Vietnam, but also Laos and Cambodia, and the White House's managerial role in United States military operations in these countries
- U.S. (especially Kissinger's) interactions with the North
 Vietnamese, the Chinese, and the Soviets in trying to bring conflicts in Indochina to an end
- the final stages of the Indochina wars, including U.S. reactions to the collapse of the client regime in Saigon and the rise of the Cambodian Khmer Rouge
- U.S.-Soviet détente and Kissinger's conduct of "back channel" diplomacy with the Soviet leadership
- U.S.-China rapprochement, including initial White House efforts
 to communicate with Beijing; Kissinger's "secret trip" to China,
 July 1971; and subsequent high-level meetings with Chinese
 officials, including visits by presidents Nixon and Ford in 1972 and
 1975, respectively
- developments in South Asia, including the 1971 India-Pakistan war and the Nixon/Kissinger tilt to Pakistan during that crisis
- the Middle East, including U.S. conduct during the 1973 October
 War and Kissinger's role as shuttle diplomat during 1974-1975
- negotiations to end minority white rule in Rhodesia/Zimbabwe
- U.S.-European relations, including policy coordination and consultations on a variety of "hot spots" and "hot issues," including the rise of Euro-Communism
- the 1974 Cyprus crisis and U.S. relations with Greece and Turkey
- international economic, energy and raw materials policies
- relations between the mass media and policymakers

Methodology: 'Topic Modeling,' cont'd.

Assembling the documents into 40 'topics' grouped by word frequency

Computer-Generated Topic List

- back-put-fact
- Kissinger
- er-st-te-ha
- Johnson-Sec-Sens
- North-South-Thieu-Vietnam
- SALT-Missile-Talks
- Saudi-Arab-Oil-Russians
- Negotiations
- Dinitz-Allon-Dayan-Meir-Rabin
- Laughter
- Soviet-Dobrynin
- France-Euro-NATO
- don-told
- Chou
- Israel-Asad-Egypt-Syria
- air-military-forces
- Southern-Europe
- Archives
- Greece-Turkey
- se-ve-tl-al

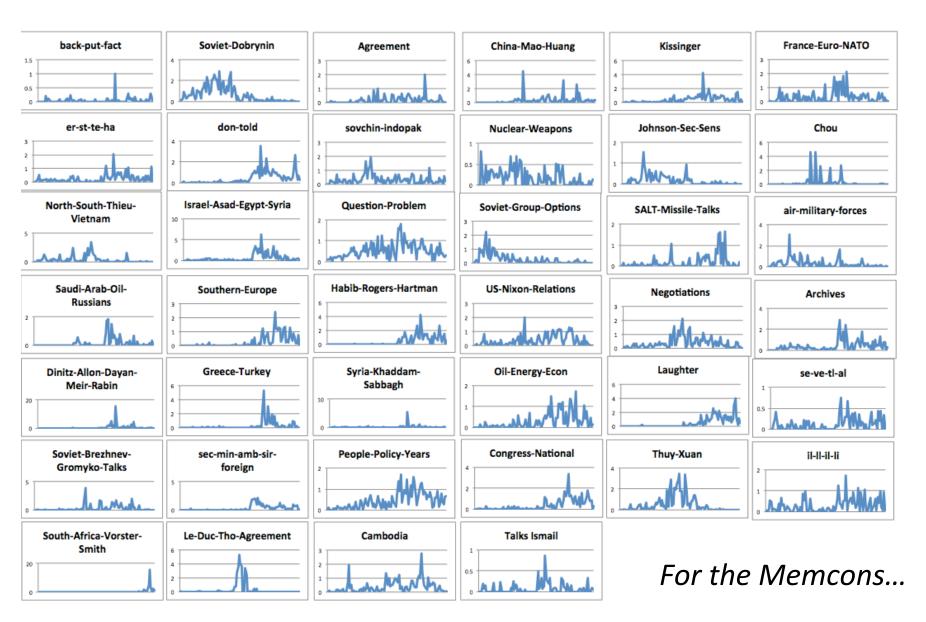
- Agreement
- il-ll-il-li
- sovchin-indopak
- Thuy-Xuan
- Question-Problem
- Congress-National
- Habib-Rogers-Hartman
- People-Policy-Years
- Syria-Khaddam-Sabbagh
- sec-min-amb-sir-foreign
- China-Mao-Huang
- Soviet-Brezhnev-Gromyko-Talks
- Nuclear-Weapons
- South-Africa-Vorster-Smith
- Soviet-Group-Options
- Le-Duc-Tho-Agreement
- US-Nixon-Relations
- Cambodia
- Oil-Energy-Econ
- Talks Ismail

Librarian-Generated Topic List

- Wars in Indochina: not only Vietnam, but also Laos and Cambodia, and the White House's managerial role in United States military operations in these countries
- U.S. (especially Kissinger's) interactions with the North
 Vietnamese, the Chinese, and the Soviets in trying to bring
 conflicts in Indochina to an end
- the final stages of the Indochina wars, including U.S. reactions to the collapse of the client regime in Saigon and the rise of the Cambodian Khmer Rouge
- U.S.-Soviet détente and Kissinger's conduct of "back channel" diplomacy with the Soviet leadership
- U.S.-China rapprochement, including initial White House efforts
 to communicate with Beijing; Kissinger's "secret trip" to China,
 July 1971; and subsequent high-level meetings with Chinese
 officials, including visits by presidents Nixon and Ford in 1972 and
 1975, respectively
- developments in South Asia, including the 1971 India-Pakistan war and the Nixon/Kissinger tilt to Pakistan during that crisis
- the Middle East, including U.S. conduct during the 1973 October
 War and Kissinger's role as shuttle diplomat during 1974-1975
- negotiations to end minority white rule in Rhodesia/Zimbabwe
- U.S.-European relations, including policy coordination and consultations on a variety of "hot spots" and "hot issues," including the rise of Euro-Communism
- the 1974 Cyprus crisis and U.S. relations with Greece and Turkey
- international economic, energy and raw materials policies
- relations between the mass media and policymakers

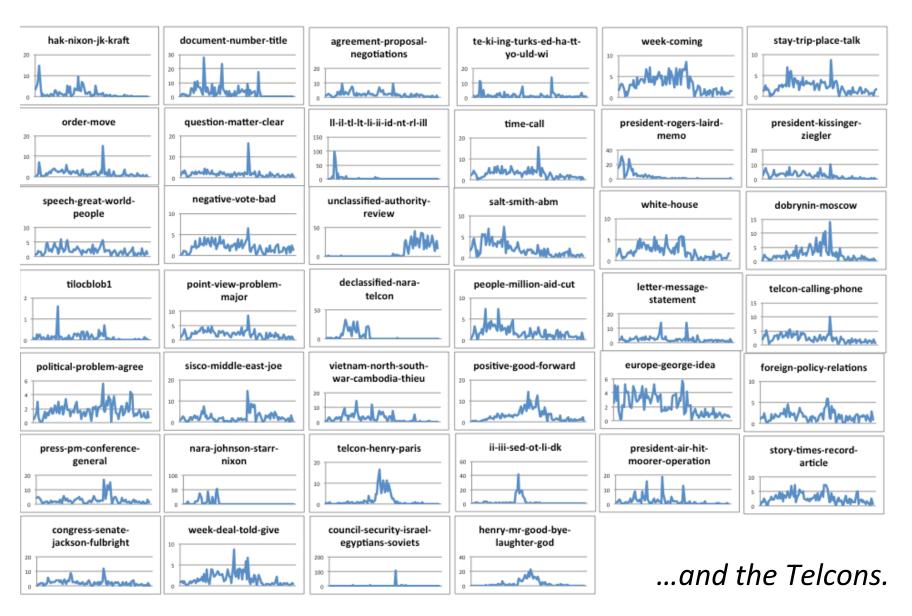
Topic Modeling – Line Graph Visualizations

Graphing the frequency with which each of the topics occurs across the archive's time span.

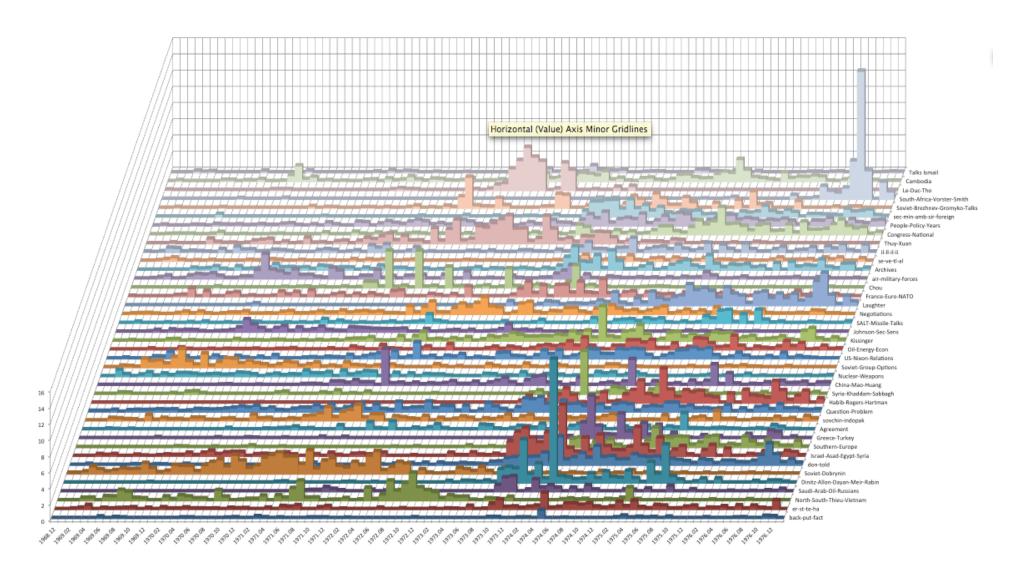


Topic Modeling – Line Graph Visualizations

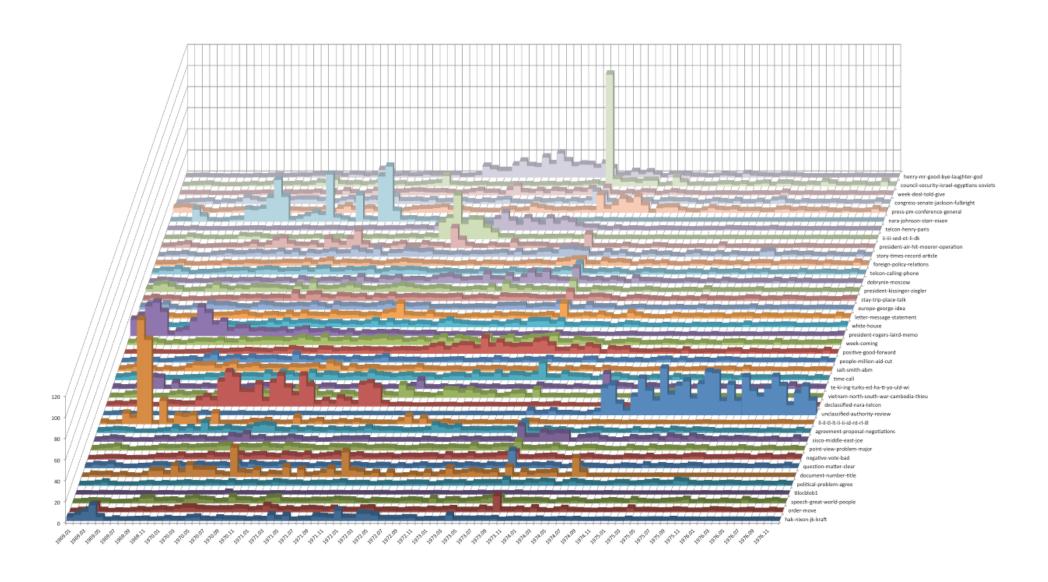
Graphing the frequency with which each of the topics occurs across the archive's time span.



A combined, linear view of all of the topic frequencies is useful when looking for patterns that are specific to one topic, or patterns that may affect multiple topics, in the Memcons...



...or the Telcons. However, the large patterns and trends in the relationships between the topics and their constituent documents is less evident.



Graph all of the above (metadata, document-to-topic weighting, topic frequency), all at once, as a network of relationships.

