

WHAT LEADERS TALK ABOUT



Analytics for Unstructured Data Project

Group 9: Team Members-

Sahil Arora, Kaushik Kumaran, Ayush Malani, Harsh Mehta, Charan Musunuru, Allie Touchstone

Data Source

- University of Virginia- Miller Center's Public Repository of US President Speeches
- PM Office Archives for Former PMs of India - (a GOI Website)

The screenshot shows a grid of portraits of US Presidents. Row 1: 37 (Richard Nixon), 38 (Gerald Ford), 39 (Jimmy Carter), 40 (Ronald Reagan), 41 (George H. W. Bush), 42 (Bill Clinton). Row 2: 43 (George W. Bush), 44 (Barack Obama), 45 (Donald Trump), 46 (Joe Biden). Each portrait includes a number, name, and term dates.

The screenshot shows a search interface for text speeches. Below it are three news snippets about PM Modi's speeches:

- Government's approach to space reforms is based on 4 pillars: PM Modi
- PM Modi's remarks at joint press meet with Danish PM
- Facilities India prepared in short timespan to fight Covid pandemic, shows capability of our country: PM

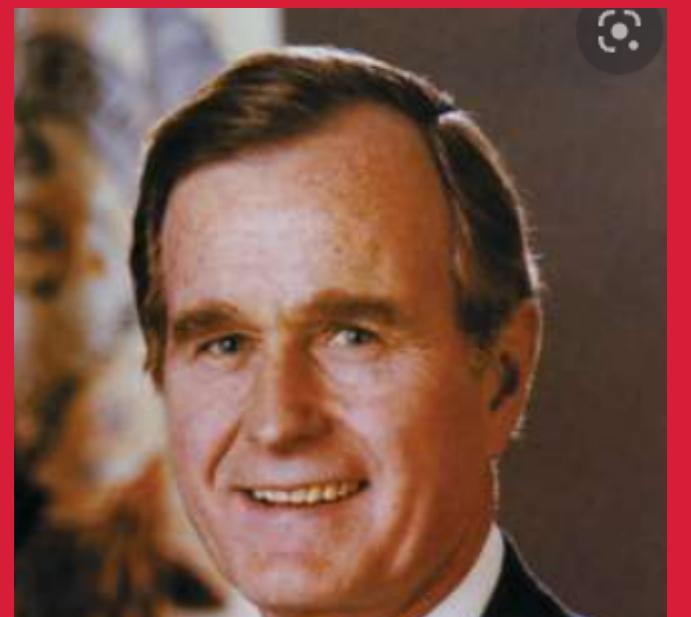
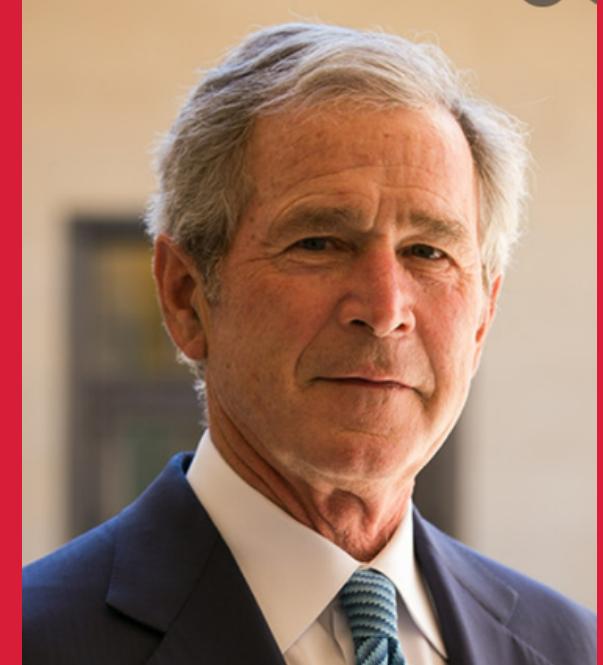
The screenshot shows a list of former prime ministers since independence. It includes portraits, names, and service years.

Prime Minister	Service Years
Dr. Manmohan Singh	May 22, 2004 - 26th May 2014
Shri Atal Bihari Vajpayee	March 19, 1998 - May 22, 2004 May 16, 1996 - June 1, 1996
Shri Inder Kumar Gujral	April 21, 1997 - March 19, 1998

- PM Modi's Official Website-
Text Speeches Archives

Analyzing US Presidents

- We used 'Topic Modeling' and 'Sentiment Analysis' to identify the different topics that US Presidents have spoken about in their speeches to the public



What Are We Looking For

- What Moved the Public
- Key topics that are talked about
- Do these topics differ across Parties?
- Do we have an aberration?

What Did We Find?

TOPICS

REAL DEAL



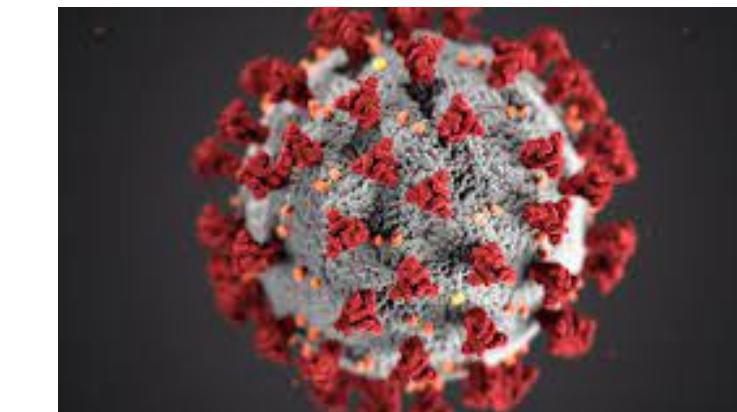
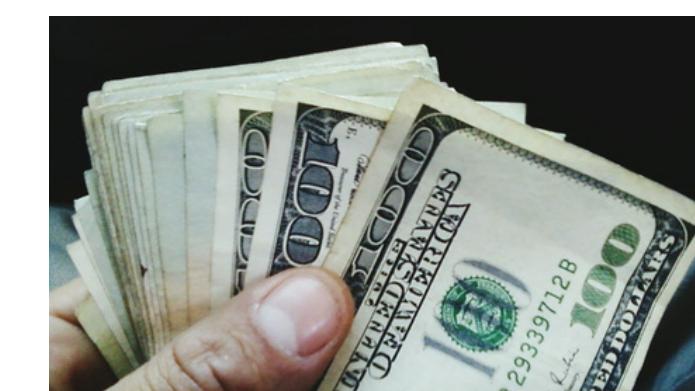
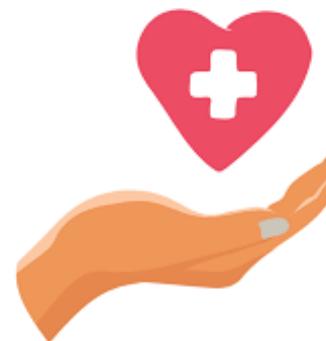
WAR MOTIVATION



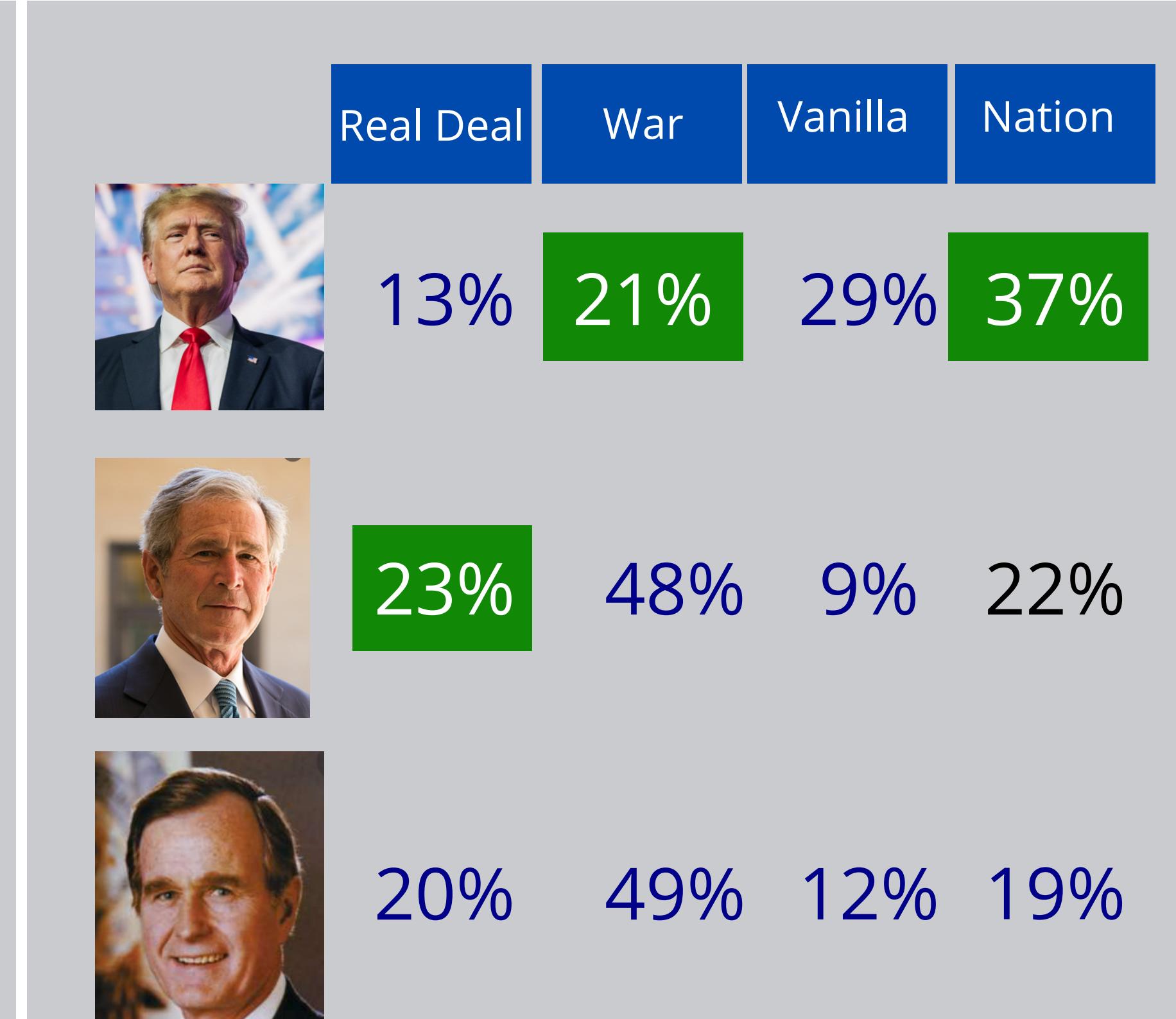
VANILLA WORDS



NATIONALISM



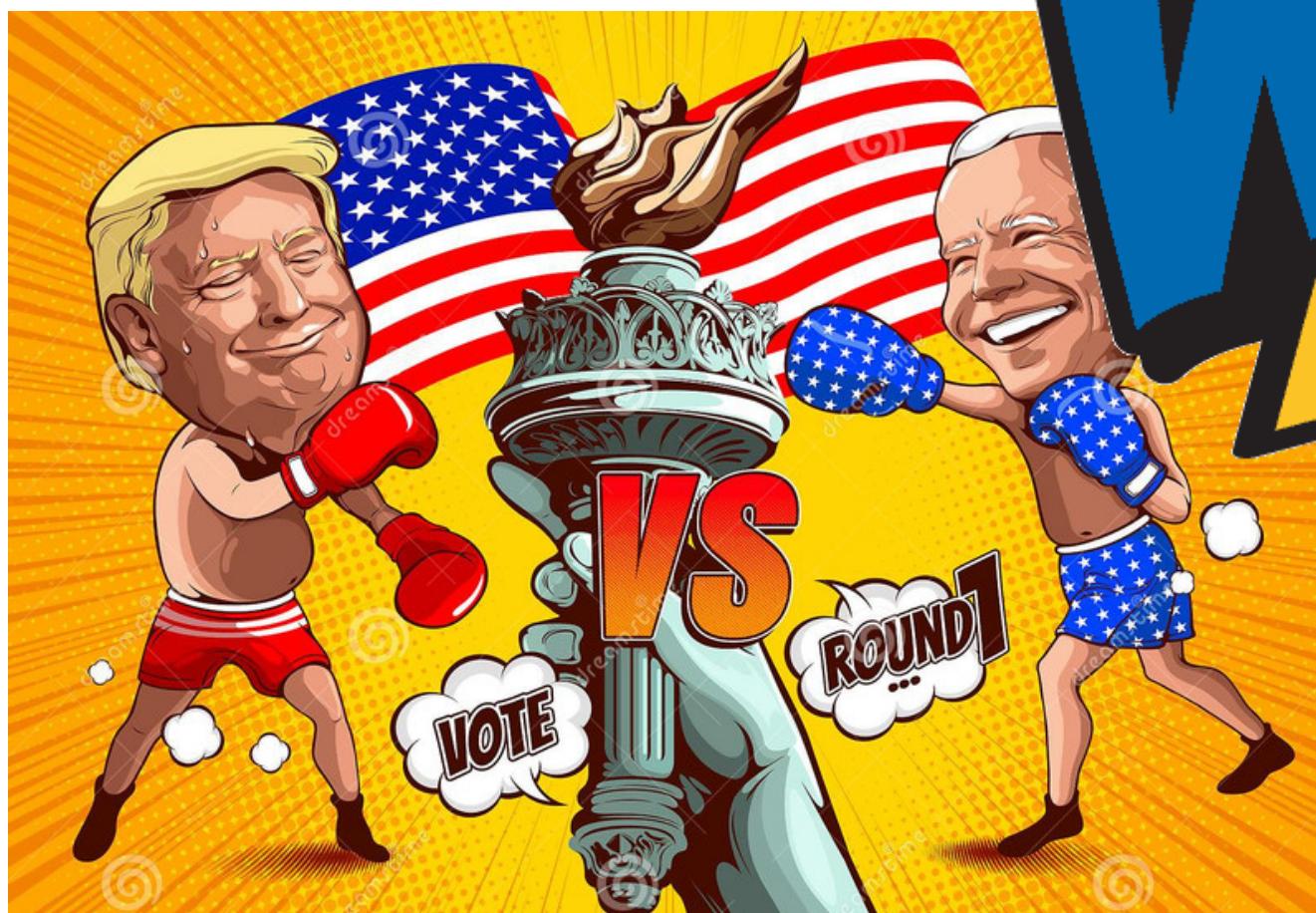
Analysis and Results



Green color coding indicates high positive sentiment inferred from Sentiment Analysis

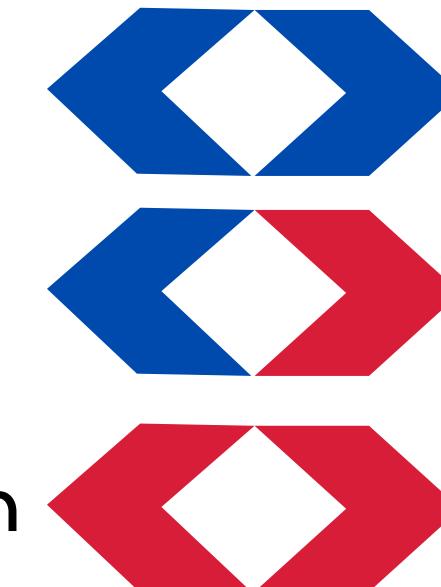
Analysis and Results

	Bill Clinton	Barack Obama	Joe Biden	Donald Trump	George W. Bush	George H. W. Bush
Bill Clinton		98%	-7%		79%	69%
Barack Obama					67%	54%
Joe Biden					-28%	-13%
Donald Trump						-32%
George W. Bush						99%
George H. W. Bush						

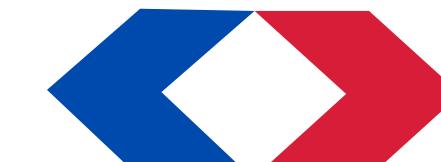


WHOA COSINE SIMILARITY

Joe Biden



Bill Clinton



Donald Trump



George H. W. Bush



POLITICAL SIMILARITY B/W INDIA & The U.S



Analysis and Results

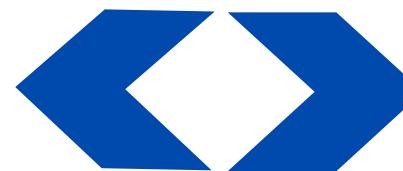
President	Real Deal Topics	War Motivation	Vanilla Words
	topic_0	topic_1	topic_2
Bill Clinton	0.31068	0.49447	0.19484
Barack Obama	0.33998	0.46324	0.19678
Joe Biden	0.21726	0.39275	0.38999
Donald Trump	0.18536	0.40330	0.41134
George W. Bush	0.25238	0.59844	0.14918
George H. W. Bush	0.22830	0.59291	0.17879
Manmohan Singh	0.36728	0.52315	0.10957
Narendra Modi	0.17053	0.46971	0.35976

- George W. Bush and Manmohan Singh have very high war motivations : Could be due to 9/11 and 26/11
- Narendra Modi is currently not dealing with many Real Deal Topics 😅

Analysis and Results

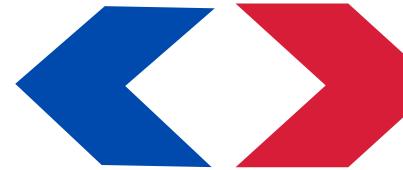
COSINE SIMILARITY

Barack Obama



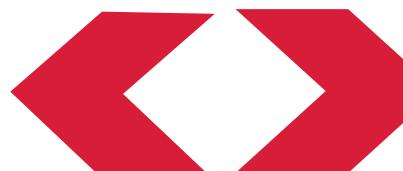
Bill Clinton

Joe Biden



Donald Trump

George H. W. Bush



George W. Bush

Narendra Modi



Donald Trump

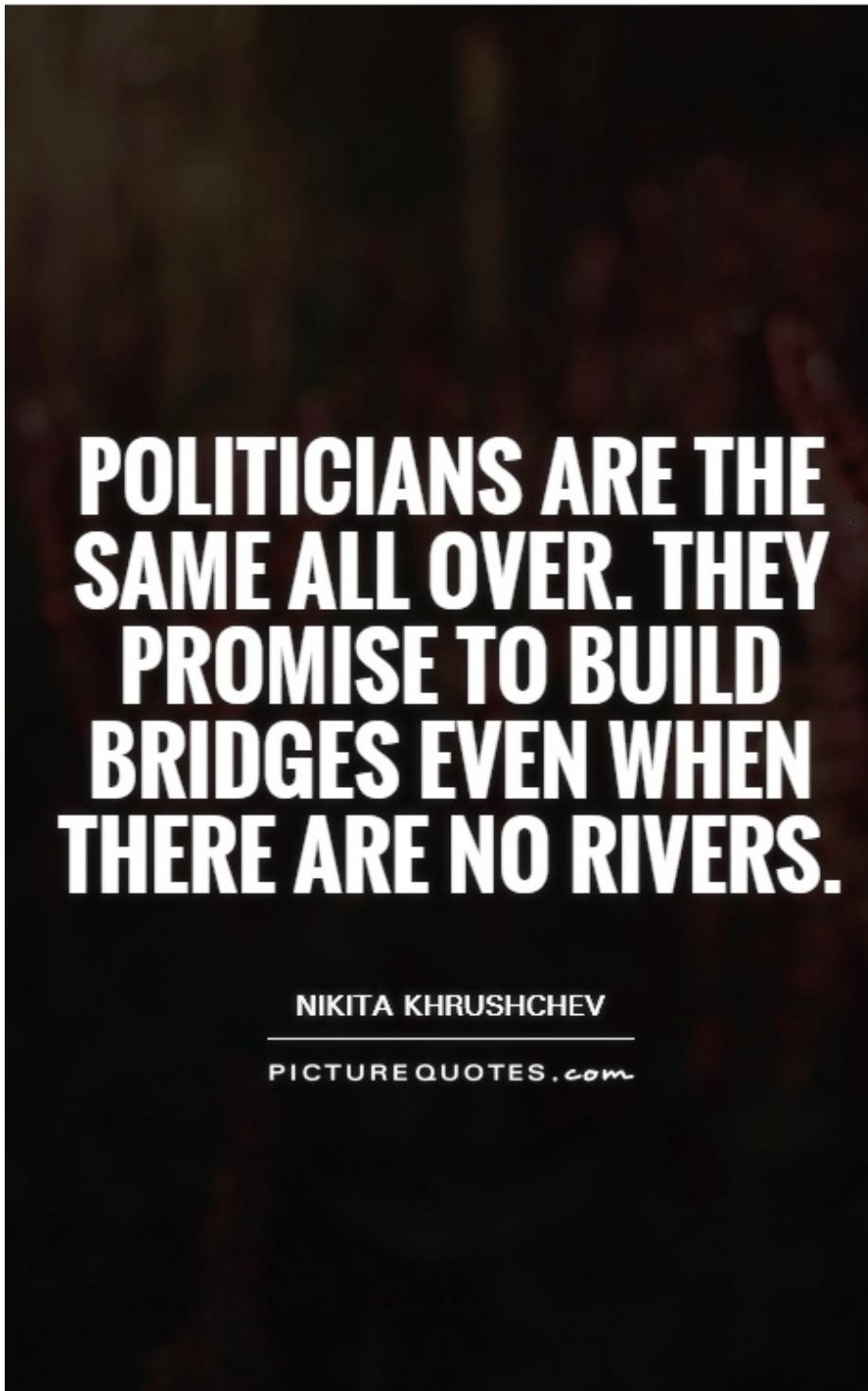
Manmohan Singh



Bill Clinton



Common saying : All politicians are the same



Who are more similar though?



As we clearly see, PM Narendra Modi has a high similarity with Donald Trump



Manmohan Singh (India's ex-PM) has more similarities with Bill Clinton

P.S. - Sonia Gandhi wasn't the Prime Minister



Thank
you!

Questions?

