Said-Huntington Discourse Analyzer: A machine-learning tool for classifying and analyzing discourse

Muhammad Ali Hashmi MSJ, Northwestern University, 2012

Submitted to the Program in Media Arts and Sciences, School of Architecture and Planning, in partial fulfillment of the requirements for the degree of Master of Science in Media Arts and Sciences at the

MASSACHUSETTS INSTITUTE OF TECHNOLOGY June 2015

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Abstract

Critical discourse analysis (CDA) aims to understand the link "between language and the social" (Mautner and Baker, 2009), and attempts to demystify social construction and power relations (Gramsci, 1999). On the other hand, corpus linguistics deals with principles and practice of understanding the language produced within large amounts of textual data (Oostdijk, 1991). In my thesis, I have aimed to combine, using machine learning, the CDA approach with corpus linguistics with the intention of deconstructing dominant discourses that create, maintain and deepen fault lines between social groups and classes. As an instance of this technological framework, I have developed a tool for understanding and defining the discourse on Islam in the global mainstream media sources. My hypothesis is that the media coverage in several mainstream news sources tends to contextualize Muslims largely as a group embroiled in conflict at a disproportionately large level. My hypothesis is based on the assumption that discourse on Islam in mainstream global media tends to lean toward the dangerous "clash of civilizations" frame. To test this hypothesis, I have developed a prototype tool "Said-Huntington Discourse Analyzer" that machine classifies news articles on a normative scale— a scale that measures "clash of civilization" polarization in an article on the basis of conflict. The tool also extracts semantically meaningful conversations for a media source using Latent Dirichlet Allocation (LDA) topic modeling, allowing the users to discover frames of conversations on the basis of Said-Huntington index classification. I evaluated the classifier on human-classified articles and found that the accuracy of the classifier was very high (99.03%). Generally, text analysis tools uncover patterns and trends in the data without delineating the 'ideology' that permeates the text. The machine learning tool presented here classifies media discourse on Islam in terms of conflict and non-conflict, and attempts to put light on the 'ideology' that permeates the text. In addition, the tool provides textual analysis of news articles based on the CDA methodologies.

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Acknowledgements

To the members of my thesis committee, Ethan Zuckerman, Dr. Catherine Havasi, Dr. Edward Schiappa, I extend my deepest gratitude.

I want to thank my supervisor, Ethan Zuckerman, for his extraordinary support and assistance in the preparation of this thesis. Imbued with the qualities of head and heart, Ethan is an institution in himself. It was a privilege to work with one of the leading media theorists of our time, from whom I have learnt so much.

I want to thank Dr. Catherine Havasi, my thesis reader, who played an instrumental role in the completion of this project. Her expertise in machine learning and her knowledge of computational linguistics were invaluable for my thesis.

I want to thank Professor Edward Schiappa, my thesis reader, for helping me frame this work in terms of its structure and overarching aims; his seminal work "Defining Reality" had a formative impact on the critical aspects of this thesis.

I would like to extend my warmest thanks to Lorrie Lejeune for her constant support during the course of my thesis project.

I would like to thank my MIT colleagues— Erhardt Graeff, Matt Carroll, Nathan Matias, Catherine D'Ignazio, Edward Platt, Patsy Baudoin, Heather Craig, Dalia Othman, Yu Wang, Jude Mwenda, Alexis Hope, Rahul Bhargava, Matt Stempeck, Sands Fish, Chris Peterson, Chelsea Barabas and Emilie Reiser —for being an inspiration to me.

I would be remiss if I didn't thank Zeba Khan and Farah Chaudhry— subject matter experts on media and Islam—for sharing their insights on my research topic.

I would like to dedicate this thesis to the memory of my father, Ali Akbar Hashmi, who passed away in 2005. He was a humble, simple and generous man. His kindness left an indelible mark on me.

Finally, I would like to thank my dear friends and family: my uncles—Farrukh Seer, Nadeem Haq, Muhammad Shahrukh, Saleem-ul-Haq, Fahim-ul-Haq, Naved Haqqi and Syed Muhammad Khalid—for their love and care; Omar Anwaar, Sohaib Anwaar and Wasif Yaqeen for being jigars par excellence; Naeem Raza, Amer Inayat, Waqar Cheema, Shahbaz Noor and Irfan Hussain for music, transcendence and madness; Numan Sheikh for his friendship, and for being part of my formative 'beat' years; Jawad Shakeel, my best friend since grade one, for supporting me in all my ventures; Mosharraf Zaidi, Saima Zaidi, Saud Naqvi and Shahzad Khan for believing in me; Javed Mian, genius among geniuses, for believing in 'me-we'; Farhan Khokhar, my brother-in-law, for his support and encouragement; Hafeez Jamali for being a true comrade and friend, and for offering sound personal and theoretical advice; my dearest mother, Nasreen Hashmi, who has fought brain tumor for decades, for being an extraordinary example of courage, love, and strength; Hammad Hashmi, my brother, for being my anchor and pillar of support, and

for being there through the thick and thin; my brother, Saad Hashmi, who signifies lust-for-life in my life, for providing constant support and resources; Aiza Hashmi, my sister, who has always been my unshakable companion, for her unrelenting moral support; Manaal Hashmi, my daughter, for being the meaning of the words 'blessing, happiness and joy' in my life; and, most importantly, my wife, Javeria Ali Hashmi—the love of my life, the muse for my verses, my shelter from the scorching sun, my blanket of cool wind— for making everything possible for me.

Table of Contents

Abstract	3
Acknowledgements	7
Table of Contents	9
Table of Figures	11
Abbreviations	12
Problem	13
Proposed Work	18
Said-Huntington Discourse Analyzer	
Related Work	21
Implementation & Methods	24
Media Cloud	24
Query for Retrieving Media Articles on Islam	25
Rolling-30-Day Corpus	26
Defining Conflict	
Pre-2001 Corpus	28
Conflict Terms Word List	29
Classification Methods	29
Feature Engineering	32
Classifier Evaluation	33
Said-Huntington Index	
Color-codes for Conflict & Nation-State Terms	
Scorecard	
Conflict Map	
Non-Conflict Map	39
Importance Visualization	
Conversations	
Dashboard View	44
Tool Evaluation Tasks and Results	_
Task 1	4 5
Task 1 Results	46
Task 2	
Task 2 Results	49
Task 3	
Task 3 Results	
Task 4	
Results Task 4	
Task 5	
Results Task 5	
Task 6	
Took 6 Dooulta	FO

Insights & Findings	59
Insights & Findings Coverage of Islam The Times of India Example	59
The Times of India Example	61
Analysis of Conversation 1	62
Analysis of Conversation 2	63
Analysis of Conversation 3	64
Analysis of Conversation 4	65
Analysis of Conversation 1 Analysis of Conversation 2 Analysis of Conversation 3 Analysis of Conversation 4 Analysis of Conversation 5	66
Discussion	
Limitations & Future Directions	
Bibliography	71
Appendix	75
User Evaluations Survey/Questionnaire	
Topics/Conversations Ouestions	76
Hypothesis Questions	100
Hypothesis QuestionsUser Interface Questions	101
User Classification of Articles Form	106

Table of Figures

Figure 1 Tool Framework	18
Figure 2 Hypothesis Framework	20
Figure 3 Classifier Selection Model	
Figure 4 Sample Run of the Classifier Selection Model	35
Figure 5 Conflict Scorecard	
Figure 6 Conflict Map	38
Figure 7 Non-Conflict Map	39
Figure 8 'Importance' Visualization (Guardian)	40
Figure 9 'Importance' Visualization (Washington Post)	
Figure 10 "Probabilistic Topic Models" (Blei, 2012, p. 78)	
Figure 11 Conversation Example	43
Figure 12 Dashboard View of Conversations	44
Figure 13 User Classification of Articles	45
Figure 14 User Classification Results	47
Figure 15 Kappa Interpretation	
Figure 16 Classifier Performance	
Figure 17 Pairwise User Agreement on Conflict/Non-Conflict Maps Classification	49
Figure 18 Marginal Distribution of Conflict/Non-Conflict Maps Classification	50
Figure 19 Topic Coherence Results	51
Figure 20 Marginal Distribution of Topic Coherence	52
Figure 21 Topic Classification Ratings	52
Figure 22 Marginal Distribution of Conversations Agreement	53
Figure 23 Feedback on Tool's Practical Usability in Different Settings	58
Figure 24 Conflict Scorecard Results	
Figure 25 Times of India Conversations	61
Figure 26 Times of India Conversation 1	
Figure 27 Times of India Conversation 2	
Figure 28 Times of India Conversation 3	
Figure 29 Times of India Conversation 4	
Figure 30 Times of India Conversation 5	

Abbreviations

SVM Support Vector Machine

LDA Latent Dirichlet Allocation

NLP Natural Language Processing

SiNLP Simple NLP

NLTK Natural Language Tool Kit

TF-IDF Term Frequency–Inverse Document Frequency

CDA Critical Discourse Analysis

CL Corpus Linguistics

ML Machine Learning

OED Oxford English Dictionary

Problem

Since the advent of the Internet, the rate and magnitude of text production by humans has massively increased, as measured in the form of documents drawn from the Web counterparts of newspapers, RSS feeds, social media sites, blogs and other online media. As the scale of text production has grown it has become increasingly difficult to make sense of this mass of data without employing computational data mining methods. Alongside the issue of massive quantities of available text data, the nature of insights required from text has also changed. Simple results, such as counts of query hits or other superficial descriptive summaries of text data, are no longer sufficient for understanding complex large-scale text datasets. Instead, the demand for more semantically rich insights from text analysis has dramatically grown.

An important area in text analysis is discourse analysis. Discourse is loosely defined as a way of speaking about an issue. Discourse analysis is defined in a variety of different ways. For instance, it has been defined as "the study of language in use" (Grenoble, 2006, p. 1). Another definition describes it as "a variety of procedures for examining chunks of language, whether spoken or written (Allwright and Bailey, 1991, p. 61)."

Foucault described discourse as "the general domain of all statements sometimes as an individualizable group of statements, and sometimes as a regulated practice that accounts for a number of statements" (Foucault, 1972, p. 90). He treats discourses as "practices that systematically form the objects of which they speak" (Foucault, 1972, p. 49). What this means is that how we speak about things is linked with our societal power relations. More broadly,

discourse shapes how we interpret our world. It constructs objects that we use to understand and define our world. This is why understanding of discourse is important because discourse results in the formation of stereotypes that contribute to systemic inequality, discrimination and injustice. More importantly, discourse drives policy measures and maintains power relations through policies and legislation (Campbell, 2002; Elmore, 2009; Foucault and Bouchard, 1980).

At the core of discourse analysis lie two questions: 1) how are topics, ideas and issues represented and organized in these texts? 2) And how do we 'speak' about certain issues within the context of representation? The first question deals with how texts are organized in topical structures, while the second question is linked with language associated with these structures.

For social science and journalism, discourse analysis is typically employed for the purpose of understanding the context and content of discussion around an issue or a set of issues. As computational methods, topic modeling and text classification come closest to enabling a quantitative approach toward discourse analysis of texts on a scale previously unimaginable in social science and in journalism.

In social science and journalism the structure of text collections can often grow and change as a matter of course. Consider the example of news content, where novel events are covered on a continual basis. It is a continually shifting landscape of events and language related to these events. Though a broad organization of topics may exist (e.g. distinction between health and sports news), at a more granular level the array of topics covered continuously change and adapt to the news cycle. For this reason, the development of tools and methods to facilitate agile, on-

demand understanding of text structure in news text corpora are of immense importance. More important, though, is understanding the ideological content that resides in the text. For this reason, a 'critical' approach is needed in conducting text analysis. Typically, text analysis tools uncover patterns and trends in the data without uncovering the 'ideology' that is embedded in the text. In doing so, they conceal the function of the relation of 'what is being said' to its social, and, more importantly, political context.

Critical Discourse Analysis is "fundamentally concerned with analyzing opaque as well as transparent structural relationships of dominance, discrimination, power and control as manifested in language" (Wodak, 2001, p. 2). The field of CDA has been criticized for over-reliance on small amounts of data, whose results are not generalizable (Baker, 2012; Stubbs, 1997). However, Mautner (2009) argues that corpus linguistics techniques—which deal with how language is generated in large amounts of data (Oostdijk, 1991)—could be harnessed to aid CDA. He cites the advantages of using corpus linguistics in CDA as:

helping to give analysts an initial focus in their data, lending credence to generalizations, and counteracting the criticism that researchers within CDA supposedly 'cherry-pick' small amounts of data that support pre-conceived ideologies. (Baker et al., 2013a, p. 258).

Furthermore, Fairclough (2013, p. 45) notes that:

the hidden power of media discourse ... [depends] on systematic tendencies in news reporting and other media activities. A single text on its own is quite insignificant: the

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¹ Terry Eagleton defines ideology as "the ways in which what we say and believe connects with the power-structure

effects of media power are cumulative, working through the repetition of particular ways of handling causality and agency, particular ways of positioning the reader, and so forth. Hence, corpus mining becomes essential for understanding the 'cumulative effects' of the media discourse. This is why there is considerable opportunity to build a computational² tool that utilizes CDA and corpus linguistics to interpret discourse on a continual basis.

The method of using computational tool for analyzing discourse that is presented in this thesis draws inspiration from the idea of discourse as a system of representation that is revealed through interaction over time— which is particularly relevant for news and media texts. Structurally, an important aspect of discourse is the iteration and accumulation of lexical content in the text i.e. how certain lexical representations are repeated across large collections of texts. For instance, by iteratively associating African-American identity with crime instead of socioeconomic conditions, the public discourse (in news and media) creates a negative image of the African-American identity. Understanding the iterative accumulation of lexical content requires a corpus-based approach.

The emergence of new data mining approaches has now made it possible to extract discourse structures in media contexts at scales that would have been inconceivable to earlier scholars. Along with basic corpus-based methodologies, like keyness,³ collocation and concordance, we can use sophisticated big data approaches to analyze media corpora. These approaches— such as topic modeling, network analysis and sentiment classification—can help us identify, demystify

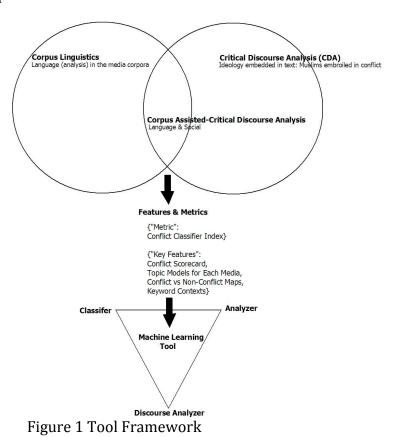
² Computational linguistics, which deals with the computational models of language, overlaps significantly with corpus linguistics; however, the main objective of corpus linguistics is to investigate the nature of language in large amounts of text. Hence, I am subsuming computational linguistics under corpus linguistics.

³ Relative importance of a word in document context

and frame dominant discourses and ideologies that do not simply represent reality but bring into being stereotypes that negatively effect social subjectivities and relations.

Proposed Work

This thesis aims to combine CDA approaches with corpus linguistics (Figure 1) using machine learning and natural language processing (NLP) techniques. The objective of CDA approaches is to make more visible the hidden aspects of discourse by looking at the latent social ideologies that permeate social texts. Hence, CDA approaches are hypothesis-driven analyses. In contrast, corpus linguistics is an agnostic way of studying language patterns in large amounts of text. My thesis combines both approaches, i.e. CDA and corpus linguistics, by using analytical framework of CDA to create hypothesis-driven features, metrics and design requirements for a corpus analysis tool. The tool, which could be used in both newsroom and academic settings, uses corpus linguistics techniques to analyze and machine-classify patterns of discourse expressed in the media text corpora.



Said-Huntington Discourse Analyzer

As an instance of this technological framework, I have developed a tool for understanding and defining the discourse on Islam in the global media. My motivation for developing this technological framework comes from the work of Edward Said and Samuel P. Huntington. Said was a notable theoretician in the fields of post-colonialism and critical theory. Huntington was an influential political scientist who gained worldwide prominence through his "clash of civilizations" thesis. One of the main arguments of Huntington was that the world of Islam is in civilizational conflict with the West (Huntington, 1993).

In his response to Huntington's clash of civilization, Said argues that "unedifying labels like Islam and the West" are misleading, and ignorance and conflict are the crops of these labels (Said, 2001, p. 192). Said (2008, p. xi) further argues that the relationship between Islam and American media is characterized by "highly exaggerated stereotyping and belligerent hostility." Similarly, Abrahamian (2003) argues that the American mainstream media framed 9/11 under the trope of Samuel Huntington's "clash of civilizations" (Huntington, 1993), which has contributed significantly to the development and deepening of fault lines between Muslim cultures in Middle East and North Africa and European and North American societies.

How is Islam represented linguistically in the global media sources? Are there any significant differences in the ways Islam is represented in different media sources? These are some of the questions that I have used to develop a framework for critical discourse analysis.

The following four hypotheses inform our critical framework:

- <u>Hypothesis 1</u>: The 9/11 has influenced/and influences the framing of discourse on Islam in America (Powell, 2011).
- <u>Hypothesis 2</u>: The mainstream Western media discourse largely portrays Muslims as "a homogeneous population embroiled in conflict, either as aggressors or victims—most frequently the former" (Baker et al., 2013b, p. 262).
- <u>Hypothesis 3</u>: Muslims are portrayed as the "Other" through the binary lens of "us and them," framed within Huntington's "clash of civilization" paradigm (Abrahamian, 2003).
- <u>Hypothesis 4</u>: Muslims are connected with terrorism more strongly than other religious communities (Morey and Yaqin, 2011).

In particular, our critical framework (Figure 2) is based on the second hypothesis, which sees media representations of Muslims contextualized largely around conflict. These media representations are 'ideological' constructs because these representations see events related to the Muslim world through the lens of conflict. The machine learning tool "Said-Huntington Discourse Analyzer"— which I have developed as part of this framework— classifies media discourse on Islam in terms of conflict and non-conflict, and attempts to put light on the 'ideology' that permeates the text. As part of the user evaluation, we⁴ test whether our hypothesis conforms to the insights extracted from the tool.

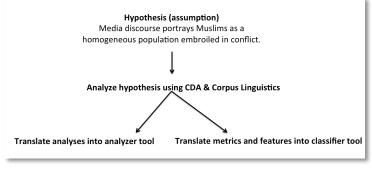


Figure 2 Hypothesis Framework

4

⁴ In this thesis 'we' refers to I (the author) when referring to tasks/actions related to the thesis.

Related Work

There has been an explosion of activity in the area of sentiment analysis (Pang and Lee, 2008) and knowledge discovery (Awad and Khanna, 2015) using machine learning in recent years.

Currently, there are many tools available that employ natural language processing (NLP) to extract text patterns in machine-readable data sources. Simple NLP (SiNLP) is a general text analysis tool that delineates linguistic features for analyzing text (Crossley et al., 2014). Coh-Metrix tool allows users to analyze texts on the basis of comprehension (Graesser et al., 2014). Sketch Engine (Kilgarriff et al., 2004) is a corpus query engine that allows users to study word patterns in text corpora.

Researchers use tools like Sketch Engine to study and analyze media texts. Baker et al. (2013b) use methods from Critical Discourse Analysis and corpus linguistics to analyze representations around the word 'Muslim' in a corpus of British newspaper articles published between 1998 and 2009. The study reports that Muslims are largely seen as a homogenous group associated with conflict. This particular work builds its analysis on the basis of collocates, which are words that occur near a given word. It uses Sketch Engine to analyze noun collocates of the word 'Muslim' and groups them under categories like conflict, culture and religion. However, one problem with this approach is that it does not take into account broader patterns within the content since it focuses on the locus of collocates rather than the entire text.

More sophisticated data mining approaches have been used to classify discourse in some studies. For instance, Montiel et al. (2014) investigated domestic media's production of nationalism during the China-Philippines Maritime Dispute. Their findings show how international conflict is linguistically created in the media ecosystem. In addition, they demonstrate how mathematical models could be used to classify sets of words belonging to a particular newspaper involved in reporting of the dispute.

Researchers use Media Cloud—a large-scale content analysis system developed by the Berkman Center at Harvard and the MIT Center for Civic Media—to study media discourse. Goncalves (2014) uses cluster analysis on a corpus of news articles—that are investigated using Media Cloud—to analyze frames in the controversy surrounding rolezinhos flashmobs organized by low-income youth in Brazilian shopping malls. Graeff et al. (2014) curates stories using Media Cloud to build a media controversy map of the killing of Trayvon Martin in 2012.

One problem in classification of complex discourses pertains to the availability of suitable corpora. In classification of non-standard categories—such as sarcasm, humor or a category that one defines in a specific manner (in our case conflict)—annotated categorized corpora are not readily available; hence, one has to build the corpus first for applying machine learning techniques. Usually it is difficult to achieve high inter-user agreement on classification of categories that are not straightforward to interpret. For example, González-Ibánez et al. (2011) use machine learning techniques and human judges to detect sarcasm in a Twitter corpus. It reports that neither human judges nor machine learning classifiers perform well on

detecting sarcasm. More importantly, they reported that an agreement of 50% was achieved among three users on the task of sarcasm identification.

There are multiple studies that focus on the issue of conflict from the point of view of information retrieval and machine learning. King and Lowe (2003) reported that in the extraction of conflict data from Reuters news reports, the computer program performed equally to trained Harvard undergraduates. Media analysis has also been used to 'forecast' and 'predict' conflict. Hunt (1996) provides a methodology for using mass media indicators to predict international conflict. Similarly, Leetaru (2013) uses advanced machine learning techniques to forecast conflict using media text corpora.

Implementation & Methods

Media Cloud

Our tool builds on the work of Media Cloud. Developed by the Berkman Center at Harvard and the MIT Center for Civic Media, Media Cloud is "is an open source, open data platform that allows researchers to answer complex quantitative and qualitative questions about the content of online media"⁵. It curates more than 50,000 global news sources, ranging from mainstream media to alternative media blogs. Although our tool could be used on any kind of machine-readable text source, the primary reason for choosing Media Cloud is to utilize the availability of diverse open-source news corpora that are available in the platform.

Apart from Media Cloud, the tool uses the following toolkits/libraries as part for its implementation: NLTK (Natural Language Tool Kit) for natural language processing (Loper and Bird, 2002); Scikit-learn (Pedregosa et al., 2011) and Gensim (Řehůřek and Sojka, 2010) for machine learning; and D3 for visualizations (Zhu, 2013).

The tool extracts news stories using Media Cloud API from the following news sources:

- Al Jazeera
- Times of India
- The New York Times
- Daily Mail Online
- USA Today
- Washington Post
- Dawn
- Reuters
- Fox News

24

⁵ http://mediacloud.org/about/

- The News International
- MSNBC

The aforementioned news sources are diverse and cover news sources from both majority Muslim countries and countries where Muslims are a minority. Our news sources comprise three sources from Islamic countries, namely Al Jazeera, The News and Dawn; one source from India, namely Times of India; three sources from England, namely Daily Mail, Guardian and Reuters; and four news sources from the United States, namely New York Times, Washington Post, USA today and Fox News.

Query for Retrieving Media Articles on Islam

The topic of Islam is represented in the media sources by a variety of keywords. I modified the query developed by Baker (2010) to extract a wide range of Islam-related topics. Baker (2010) compared British broadsheet and tabloid newspapers to study representations of Islam for the 1999-2005 time period. I crafted the following solr⁶ query for Media Cloud API to extract articles that directly or indirectly deal with Islam:

Query = '("Allah" or "Allahu" or "ayatollah*" or "burka*" or "burqa*" or "fatwa*" or "hejab*" or "hijab" or "imam*" or "islam*" or "Koran*" or "Mecca" or "Medina" or "Mohammedan*" or "Moslem*" or "Muslim*" or "mosque*" or "mufti*" or "jihad*" or "jehad" or "mullah*" or "Quran" or "Koran" or "sharia*" or "shia*" or "shi-ite*" or "Shiite" or "sunni*" or "wahabi" or "yashmak*") and not ("shiatsu") and not ("sunnily")'

The mark "*" acts as the wildcard, and retrieves all keywords that have the keyword stem (or root). For instance, the term "Koran*" retrieves documents containing the words Koran, Koranic and Korans.

-

⁶ Open source enterprise search platform

Rolling-30-Day Corpus

The tool pulls the data from the Media Cloud using its API on a daily basis. Using "published date" filter, the tool restricts the articles to the latest thirty-day period. Afterward, stop words—or "words of little intrinsic meaning" (Eck et al., 2004, p. 330) like 'a', 'an' and 'the'— are removed as part of pre-processing. Using stemming and lemmatization, we conflate different inflected forms of a word so they could be analyzed as a single entity. For instance, the term 'churches' is reduced to the root 'church' and the term 'killing' is reduced to the form 'kill'. The extracted text of the articles is tokenized and tagged using a part-of-speech tagger, which assigns parts of speech (such as noun, verb or adjective) to each word. The purpose of tagging the data is to extract grammar-based text that is appended to the document tuple:

$$Document_n = \{full\text{-}text, grammar\text{-}based text\}$$

The tool's classifier-building heuristic uses both types of text in its implementation. It uses nounphrase grammar to extract our grammar-based text because noun phrases are good linguistic markers for: feature engineering (Scott and Matwin, 1999); information retrieval (Smeaton, 1992); and representations of the content (Fagan, 1989).

The tool uses the following list of tags to extract the noun phrases from the articles.

Tags list = $['NN','NNS','NNP','NNPS','JJ','JJR','JJS']^7$

-

JJ Adjective

JJR Adjective, comparative

JJS Adjective, superlative NN Noun, singular or mass

NNS Noun, plural

NNP Proper noun, singular

In addition, the tool uses the following rules to generate the grammar for noun phrases:

These rules are based on key-phrase extraction proposed by Kim et al. (2010, p. 576).

Defining Conflict

Our hypothesis requires classification of articles on the basis of conflict. Articles are classified as 'conflict articles' if they are about groups or people or individuals embroiled in a conflict, either as victims or aggressors. Specifically, conflict in our context means:

- a. An encounter with arms; a fight, battle (OED)⁸.
- b. Fighting, contending with arms, martial strife (OED).
- c. A struggle marked by terrorism or extremism or force or militancy.
- d. Militant struggle defined as opposition among social entities.
- e. Armed conflict

On the other hand, articles are classified as 'non-conflict articles' if they are about subjects other than conflict. These subjects could include spirituality, religion, health, art, economy, sports and local politics (in which groups are engaged in non-militant political issues).

⁸ Oxford English Dictionary

Pre-2001 Corpus

Since the advent of 9/11, Muslims have been portrayed in many mainstream media as "a homogeneous population embroiled in conflict, either as aggressors or victims—most frequently the former" (Baker et al., 2013b, p. 262). This implies that the coverage on Islam is largely about conflict issues. In order to machine classify articles on the basis of conflict and non-conflict, we need a good-sized sample of articles about non-conflict topics. One issue with retrieving articles that are not about conflict is that since 9/11 the media coverage has represented Islam largely in conflict terms. In order to overcome this issue, I extracted content from Lexis Nexis using articles published before 2001. I used the following query to retrieve the articles:

```
[((("Islam" and "health" and not ("war" or "terror" or "extrem!")) or
("Islam" and "sport!" and not ("war" or "terror" or "extrem!")) or
("Islam" and "econom!" and not ("war" or "terror" or "extrem!")) or
("Islam" and "spiritual!" and not ("war" or "terror" or "extrem!")) or
("Islam" and "business" and not ("war" or "terror" or "extrem!")) or
("Islam" and "science" and not ("war" or "terror" or "extrem!")) or
("Islam" and "arts" and not ("war" or "terror" or "extrem!")) or
("Islam" and "entertainment" and not ("war" or "terror" or "extrem!")) or
("Islam" and "community" and not ("war" or "terror" or "extrem!")) or
("Islam" and "religion" and not ("war" or "terror" or "extrem!")) or
("Islam" and "music" and not ("war" or "terror" or "extrem!")) or
("Islam" and "women" and not ("war" or "terror" or "extrem!"))
and Date(geq(01/01/1999) and leq(03/31/1999)))] (1000)
Source Source Information [Newspaper Stories, Combined Papers]
```

The query construct ("war" or "terror" or "extrem!") filters all the articles that contain the three aforementioned terms. The exclamation mark after "extrem" truncates the term as a stem and removes all inflections of the term 'extrem', such as extremism, extremist etc. I used this filter

construct in conjunction with topics that are not about conflict—such as 'Islam' and 'sport' or 'Islam' and 'music'—to create a pre-2001 corpus of about 3000⁹ non-conflict articles. I intentionally excluded 'politics' and 'international relations' as query constructs because conflict, in our context, is primarily associated with the topic of politics.

Conflict Terms Word List

Conflict terms such as 'force', 'military' and 'terror' are good candidates for features representing conflict in a given article or document. A list of conflict terms provides us with a rudimentary criterion for defining content on the basis of conflict. The tool utilizes open source lexical database WordNet to build the conflict terms word list. The basic element in WordNet is a synonym set, or synset, which represents a lexical concept schema, or a set of semantically related words grouped together. The tool uses sysnets for the terms 'force', 'military', 'terror', 'military' and 'extremism' to create the semantic network of the conflict-related vocabulary for our list.

Classification Methods

In machine learning, support vector machines (SVMs) are supervised machine learning methods developed on the basis of statistical learning theory (Cortes and Vapnik, 1995; Vapnik and Kotz, 1982). In the case of binary classification, the aim of the SVM algorithm is to find the hyperplane that divides the data points belonging to the two classes in a way that maximizes the distance between the decision boundaries. SVMs are suitable for text classification (Joachims,

 $^{\rm 9}$ The size of pre-2001 corpus is comparable to our daily extract for rolling-30-day corpus

2002), achieve "good classification performance" (Joachims, 2001, p. 136), and are quick to train and evaluate (Dumais et al., 1998). SVMs have been shown to surpass other classification algorithms on classification measures in a number of comparative evaluation studies (Joachims, 1998; Pang et al., 2002; Yang and Liu, 1999).

Apart from SVMs, Naïve Bayes classifiers are a family of probabilistic classifiers that are also popular in text classification. These supervised machine learning algorithms employ Bayes' theorem with 'naïve' assumption of independence between the features. Bayes' theorem allows us to calculate posterior probabilities for prediction using given prior probabilities. Naïve Bayes classifiers, cited historically for effective use in text classification, are "known for their inherent robustness to noise and their fast learning time" (Maxion and Townsend, 2002, p. 221); and are, therefore, frequently included as a core methodology in comparative evaluation of text classification techniques (Joachims, 1998; Pang et al., 2002; Yang and Liu, 1999).

There are different ways we can set up a Naïve Bayes classifier. In text classification the two commonly employed implementations of Naïve Bayes classifier are multinomial model and multivariate Bernoulli model (Yu, 2008). In the Bernoulli model, one feature represents each word in the document; while in the multinomial model, one feature represents each word position in the document (Meretakis et al., 2000). More specifically, multinomial model takes into account both the order of words and the number of occurrences of the words in a document. Regardless of these differences, both multinomial and Bernoulli models are suitable for classification with discrete features (in our case, word counts for text classification). Previous studies on topic classification tasks have shown that the multivariate Bernoulli model is more

suitable for data sets with small vocabularies, while the multinomial model performs better on larger vocabularies (Lewis, 1998; McCallum and Nigam, 1998).

In the thesis implementation I developed a heuristic that combines Naïve Bayes and SVM algorithms with different feature options in order to find the best performing classifier in terms of classification accuracy. Feature engineering is an integral part of machine learning and "there is ... no replacement for the smarts you put into feature engineering" (Domingos, 2012, p. 84). In our case, we produce the classifier by employing a variety of feature options.

The purpose of tagging the data is to extract grammar-based text that is appended to the document tuple:

 $Document_n = \{full\text{-}text, grammar\text{-}based text\}$

Our classifier-building heuristic uses both types of text in its implementation.

Our goal is to build the classifier through a heuristic implementation. We use the pre-2001 corpus to extract text documents that do not contain any conflict term that we have compiled in our conflict terms word list. Assuming that most of the current media articles largely cover conflict issues, we use pre-2001 corpus for extracting non-conflict corpus in order to have sufficient number of non-conflict training samples for machine learning. We use the current rolling-30-day corpus to find articles that exclude all terms from the conflict term word list and combine them with the pre-2001 corpus text documents that also exclude these terms. Hence, this document list becomes our master list of non-conflict training samples¹⁰. We define the

¹⁰ The ratio of pre-2001 (old) non-conflict articles to rolling-30-day (current) non-conflict articles is typically 1:10. So if we have 100 articles in the current corpus, we will have 1000 articles from the old corpus. I found that there is

conflict articles as articles that contain at least one or more conflict terms. Our goal is to find best classification score for a classifier with the lowest number of conflict terms as part of its feature space. Our intuition behind using the lowest number of conflict terms is that we want to retain a diverse and large feature space for classifying articles that have fewer conflict terms. A higher number of conflict terms will reduce our feature space by restricting the number of documents that are classified as conflict articles. Hence, once the classifier is optimized by cross validation, we stop the classification heuristic. In order to find the best classification score with fewest number of conflict terms, we iterate through the rolling-30-day corpus, increasing the count of conflict terms by one, until we find the maximum classification score. From the labeled text documents (conflict, non-conflict), we extract both grammar-extracted text and full text of the articles. Using natural language processing all text documents are lemmatized, tokenized and stemmed after the removal of stop words.

Feature Engineering

Feature engineering is an integral part of machine learning. Domingos (2012) notes that feature engineering is the most important element in the success or failure of machine learning projects. Feature engineering is defined as "the process of manipulating and combining features to arrive at more informative ones" (Bowles, 2015, p. 17). In our implementation we use both full-text and grammar-based texts to build our model. The raw text is transformed into numerical feature vectors through the process of vectorization. A vectorizer is a sparse matrix representation of the

2

a dearth of non-conflict articles in the current corpus for many mainstream media; hence, there is a need to augment our training set using the old data.

document features. Two vectorizer variations are widely used in text classification, namely count

vectorizer and term frequency—inverse document frequency (TF-IDF) vectorizer.

The TF-IDF model reflects the relevance of an n-gram in a text document in a collection of

documents (Manning et al., 2008; Salton and McGill, 1983). This method informs about the

discriminative word feature space for a given document. The TF-IDF model was originally a

term weighting scheme developed for information retrieval but has found good use in document

classification and clustering.

The count vectorizer tokenizes the text and counts the word occurrences of a given corpus of text

documents. We use the vectorizers on two different n-gram¹¹ lexical models. One is the 1-gram

(individual words); the other is the 2-gram model of words. The 2-gram model preserves some of

the local ordering information in the text documents. The vocabulary extracted by this 2-gram

vectorizer is hence much bigger and usually resolves ambiguities encoded in local positioning

configurations. Both vectorizers produce a sparse label-feature matrix, where each row stands for

a given k = 2 labels (conflict, non-conflict) and n columns for each sorted feature vector.

Classifier Evaluation

We use two cross validation metrics to evaluate our classifier. First, we randomly split the

documents into random and training sets. Then we sample the training set while holding out 30%

¹¹ In computational linguistics, a word "n-gram is a contiguous sequence of n items [words] from a given sequence of text or speech" (Navarro-Galindo et al., 2012, p. 41). For example, for the text phrase "thus spake zarathustra", we have the following 1-gram and 2-gram representations:

1-gram = ['thus', 'spake', 'zarathustra']

2-gram = ['thus', 'spake', 'zarathustra', 'thus spake', 'spake zarathustra']

of the data for testing (evaluating) our classifier. We compute the F1 score for the test data, which becomes our cross validation (70:30) score. Secondly, we use the k-fold cross-validation score by splitting the data, fitting a model and computing the score five consecutive times (with different splits each time). We calculate the mean score from the five k-fold iterations, along with the 95% confidence interval of the score estimate from the k-fold cross validation data.

Our classifier selection method is as follows (Figure 3):

```
For "number of conflicts terms" (i) in range (0 and Length of Conflict Terms Word List):
Create non-conflict documents corpus with 0 conflict terms from the pre-2001 dataset
Create non-conflict documents corpus with 0 conflict terms from the current rolling-30-day corpus
Combine the two lists as final master non-conflict corpus
Create master conflict documents corpus with conflict terms greater than "number of conflicts terms" (i)
Combine conflict and non-conflict corpora into master corpus (data)
For text type in (grammar-based text, full text):
For vectorizers in (count vectorizer, TF-IDF vectorizer):
For ngrams in (1-gram, 2-gram):
For classifiers in (SVM, Multinomial, Bernoulli):
Vectorize the data
Break the list into test and train set
Calculate score for 70/30 split
Calculate k-fold cross validation score
Pick the classifier with highest 70/30 or k-fold validation score with lowest "number of conflicts terms"
```

Figure 3 Classifier Selection Model

A sample run of the classifier selection model is shown in the following table (Figure 4):

Conflict Terms	Vectorizer	Classifier	70/30 Score	fold mean score (95%)
9	TFIDF	SVM	99.25	"99.33 (+/- 0.30)"
9	TFIDF	MultinomialNB	90.05	"87.47 (+/- 6.00)"
9	TFIDF	BernoulliNB	99.25	"98.21 (+/- 0.78)"
9	Count	SVM	99.00	"99.55 (+/- 0.18)"
9	Count	MultinomialNB	94.53	"93.44 (+/- 2.31)"
9	Count	BernoulliNB	99.25	"98.21 (+/- 0.78)"
10	TFIDF	SVM	99.73	"99.35 (+/- 0.31)"
10	TFIDF	MultinomialNB	90.22	"86.94 (+/- 6.29)"
10	TFIDF	BernoulliNB	99.46	"99.02 (+/- 0.61)"
10	Count	SVM	100.00	"99.84 (+/- 0.10)"
10	Count	MultinomialNB	95.11	"93.47 (+/- 2.20)"
10	Count	BernoulliNB	99.46	"99.02 (+/- 0.61)"
11	TFIDF	SVM	99.70	"99.73 (+/- 0.18)"

Figure 4 Sample Run of the Classifier Selection Model

The table list classification scores for the three classifiers with different feature sets. The sample data is generated from 1-gram, grammar-based text. The best classifier is highlighted in boldface. As the results suggest, the best classifier is SVM (grammar-based text, 1-gram, conflict terms = 10, Count vectorizer). The best performing classifier is serialized and is used to classify (conflict, non-conflict) articles in the rolling-30-day corpus.

Said-Huntington Index

Our index is a composite number comprising three different metrics. The probability estimate of our classifier is the first metric; the relative weight of this metric in our index is 50 percent. The second metric, with a relative weight of 30 percent, is the number of conflict terms in an article. The third metric, with a relative weight of 20 percent, is the number of terms denoting the nation-states in a given article. The goal of Said-Huntington index is to measure the degree of conflict in an article. The machine learning classifier has the highest weight (50%) because

it is the classifier that a priori determines whether a document has conflict or not. Since we define conflict as one that is characterized by force and militancy, we have assigned 30% weight to the conflict terms that typify force and militancy; in doing so, we are giving more weight to the conflict characterized by these terms in the index. The presence of terms that denote a nation-state may indicate the likelihood of a conflict because nation-states are at the root of modern conflict (Wimmer and Min, 2006). Hence, we have assigned 20% weight to terms that denote nation-state.

The Said-Huntington index is calculated as follows:

Said Huntington Index =
$$50 \times P + Minimum \left(30, 30 \times \frac{x}{10}\right) + Minimum \left(20, 20 \times \frac{y}{10}\right)$$

$$P = Probability score of conflict classifier$$

$$x = number of conflict terms in an article$$

$$y = number of terms denoting nation/state in an article$$

A score of greater than or equal to 50 classifies the article as 'Huntington', whereas a score of less than 50 classifies the article as 'Said'. For example, an article is classified as 90% conflict by our supervised machine learning classifier. It contains four conflict terms and two terms that denote nation-states. The Said-Huntington index for this article is calculated as follows:

$$50 \times 0.90 + 30 \times 4/10 + 20 \times 2/10 = 45 + 12 + 4 = 61$$

An index value of 100 indicates extreme conflict in the article, while a value of 0 indicates the absence of conflict in the article.

Color-codes for Conflict & Nation-State Terms

In any visual representation in our tool, if the keyword is a conflict term, i.e. it is part of the conflict terms word list, we color it as red; on the other hand, if the keyword denotes a nation-state, we color it as orange. This makes it easier for user to comprehend discourse structure.

Scorecard

Using the Said-Huntington index classification, we aggregate the results for all the media sources in our corpus. We use color-coded liquid fill gauge visualization (Figure 5) to indicate the percentage of articles that are about conflict in a given source.

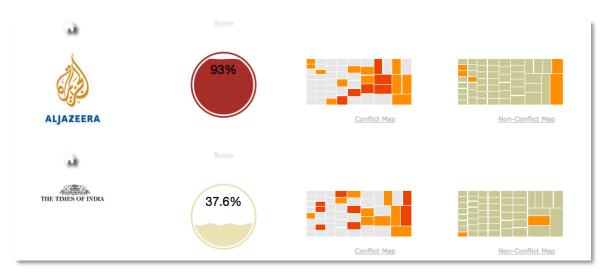


Figure 5 Conflict Scorecard

Conflict Map

The 'Conflict Map' visualization page (Figure 6) shows the treemap¹² of 50 most frequent terms from the articles that are classified in the 'conflict' category using the Said-Huntington index. In addition, it also provides a sample of articles that are classified under the conflict category.

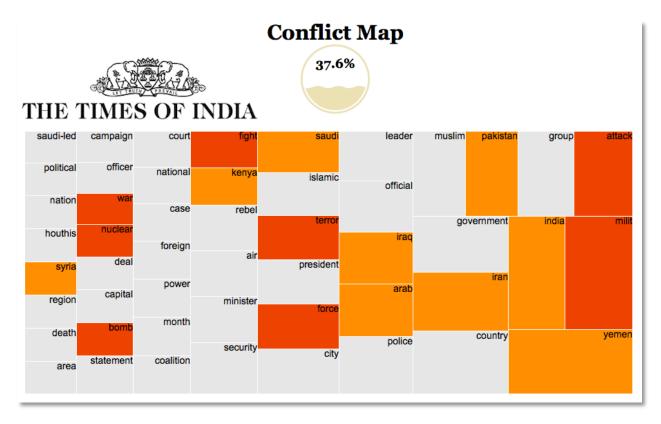


Figure 6 Conflict Map

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¹² Treemapping is a method for displaying hierarchical data by using nested rectangles.

Non-Conflict Map

The 'Non Conflict-Map' visualization page (Figure 7) shows the treemap of 50 most frequent terms from the articles that are classified in the 'non-conflict' category using the Said-Huntington index. In addition, it samples articles that are classified under the non-conflict category.

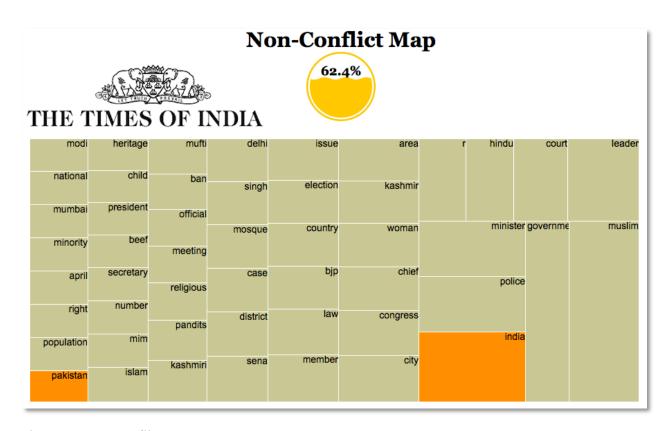


Figure 7 Non-Conflict Map

Importance Visualization

For a given media source, we also provide the user with the 'importance' visualization, which shows which terms are more rare and important in the given source compared with other sources. This allows the user to differentiate one media source from other sources in terms of journalistic coverage priorities. This is implemented by using a TF-IDF weighting on the 50-most-frequent terms within a media corpus. For instance, the Guardian 'importance' map (Figure 8) shows that— in its corpus of articles on Islam— the terms 'britain', 'scotland', 'labour' and 'london' were more important to the Guardian than to other media sources. In contrast, the Washington Post 'importance' map (Figure 9) shows that the terms 'sanction', 'israel', 'usa' and 'framework' were more important to the Washington Post than to other media sources. In conjunction with 'importance' visualization, we also provide a treemap of the most frequent terms for a given media source.

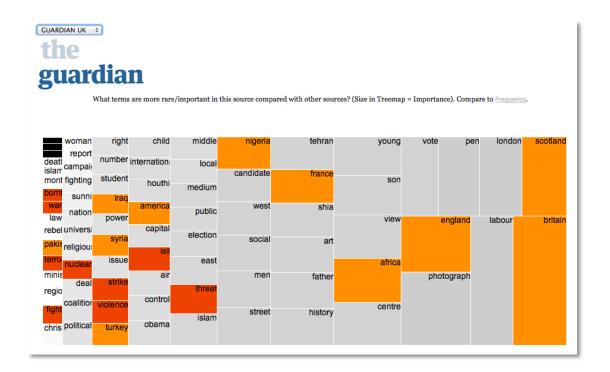


Figure 8 'Importance' Visualization (Guardian)

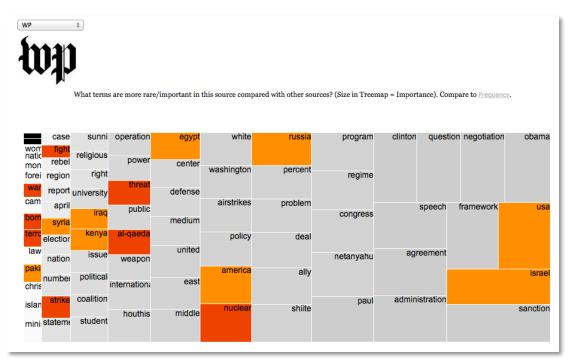


Figure 9 'Importance' Visualization (Washington Post)

Conversations

In order to understand the latent structure of the discourse on Islam, we employ unsupervised machine learning technique based on probabilistic topic modeling. Past studies indicate that probabilistic topic modeling is useful "in exploring and predicting the underlying semantic structure of documents" (Du et al., 2010, p. 148). We extract five topics and corresponding keywords using the Latent Dirichlet Allocation (LDA) model for all the media sources.

LDA is a generative probabilistic model that is used to extract the latent topics present in a text corpus (Blei et al., 2003). It is "useful for finding related documents as well as visualizing the topical content of each document" (Asuncion et al., 2010, p. 98). The intuition behind LDA

algorithm (see Figure 10) is that documents exhibit multiple topics. For instance, words like 'gene', 'dna' and 'genetic' will cluster together because they are part of the same topic¹³ (Blei, 2012). On the other hand, words like 'data', 'number' and 'computer' will tend to cluster together since words about data analysis are part of the same subject.

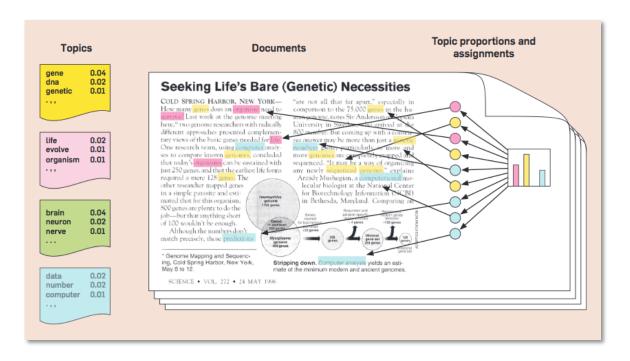


Figure 10 "Probabilistic Topic Models" (Blei, 2012, p. 78)

Our methodology aims to extract semantically rich insights that are organized in a topical manner. This is particularly relevant for understanding text as a discourse or as a form of conversation. At the core of this discourse analysis lie two questions: 1) how are different conversations represented in these texts? And 2) what is the nature of discussion about a certain topic? The extraction of topics shows how the general topic of "Islam" is represented in a given media corpus. It shows how the conversation on "Islam" takes place in that media and in what

¹³ A topic is defined as a "distribution over a fixed vocabulary" (Blei, 2012, p. 78).

context. The advantage of using this approach is that it brings into front the underlying representation of the discourse structure by delineating different topical spaces within a given media corpus.

A conversation is a cluster of statistically/semantically related core terms grouped by LDA. Each conversation is represented using a bubble frequency chart (See Figure 11).

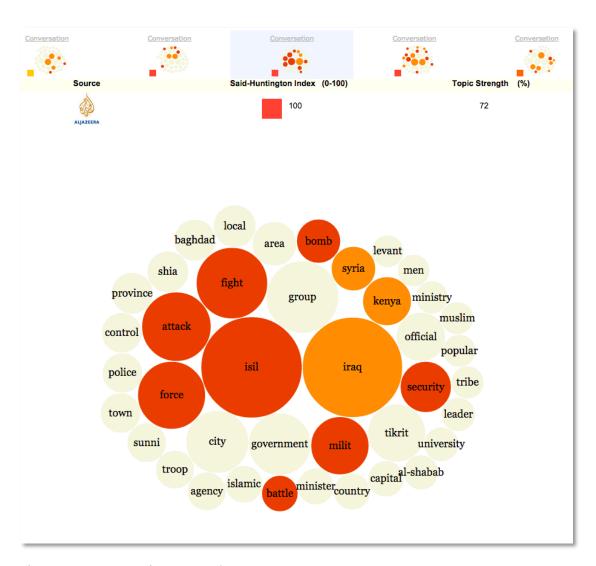


Figure 11 Conversation Example

The higher the frequency of a keyword in a topical cluster, the bigger its size in the bubble frequency map. In order to determine whether the conversation is related to conflict, we classify the conversation using the Said-Huntington index—which is represented by a red-green (spectrum) color-coded square box and the index value. The red color indicates extreme conflict, whereas green color indicates absence of conflict. The color-coded visualization makes it easier for the user to discern conversations based on classification index. We also provide the relative 'topic strength' of the conversation as compared with other conversations. The relative strength of each topic is extracted using the following equation:

 $Topic Strength = \frac{frequency \ of \ most \ frequent \ term \ in \ the \ conversation \ for \ a \ given \ media}{frequency \ of \ most \ frequent \ term \ in \ all \ the \ conversations \ for \ a \ given \ media}$

Dashboard View

In our dashboard view, we provide a comparative visual summary of all the conversations using thumbnail versions of bubble frequency charts (Figure 12).



Figure 12 Dashboard View of Conversations

Tool Evaluation Tasks and Results

We¹⁴ designed a series of tasks¹⁵ to evaluate the tool using quantitative, qualitative and statistical methods. For our evaluation experiment we recruited 5 users, two of them were Muslims, while three were non-Muslims.

Task 1

We retrieved 103 articles (see Appendix) on Islam using our tool's Media Cloud query. We applied the published date range filter to select articles from a date range that was from recent past but did not overlap the latest 30-day-rolling period when the experiment was conducted¹⁶. We curated the articles on a web form and asked the users to classify the articles based on our definition of the term conflict. We provided three classification options to the user, namely 'Conflict', 'Non-Conflict' and 'Not-sure' (Figure 13).

13)MSNBC s id:3:331592510:4.0:

Why covering up is cool: Inside fashion's modesty movement

inside fashion modesty movement change young woman one-piece swimsuit beach loose tunic tank top summertime chunky knit tight sweater winter modesty movement fashion sexy style backseat conservative perfect timing group religious style blogger designer 30-year-old melanie elturk ceo haute hijab vis...

Why covering up is cool: Inside fashion's modesty movement Maybe you?ve already noticed the change: Young women in one-piece swimsuits at the beach, loose tunics replacing tank tops in the summertime...

- Conflict
- Non-Conflict
- Not-sure
- No Answer Recorded

Figure 13 User Classification of Articles

¹⁴ In this thesis 'we' refers to I (the author) when referring to tasks/actions related to the thesis.

¹⁵ See Appendix for details on user evaluation.

¹⁶ The user evaluations are based on the daily run of the tool executed on 04/28/2015.

After the users completed their task, we ran our machine learning classifier to classify this corpus of 103 documents. The goal of this task was to calculate the degree of inter-rater agreement among users on our classification criteria—i.e. what we mean by conflict. Additionally, we wanted to measure the performance of our supervised machine learning classifier—in terms of precision, recall, specificity and accuracy— using the classification labels provided by the human users.

The experimental evaluation of the task was based on the following questions:

- a) Did the users agree on our definition of the term 'conflict'?
- b) And whether there is agreement between machine classification and human classification results?

Task 1 Results

We calculated ¹⁷ Fleiss's kappa, Krippendorff's alpha and pairwise average as part of assessing the reliability of agreement among users when assigning categorical ratings to classifying articles. These statistical measures are used for assessing the reliability of agreement between. In addition, we calculated the marginal distributions of raters, giving insight into how often each rater used a particular category ('Conflict', 'Non-Conflict' and 'Not-sure'). The results are shown in the summary in Figure 14. As per Landis and Koch (1977) interpretation of κ values (Figure 15), our Kappa statistical measure indicates almost perfect agreement among the users.

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¹⁷ Geertzen, J. (2012). Inter-Rater Agreement with multiple raters and variables. Retrieved May 2, 2015, from https://mlnl.net/jg/software/ira/

The average pairwise¹⁸ user agreement was also very high (95.8%). This implies that the users were in agreement on the definition of conflict.

Data5 raters and 103 cases
1 variable with 515 decisions in tota
no missing data

1: frame_u1_u5

Fleiss		Krippendorff		Pairwise avg.	
A_obs	=	0.958 D_obs	=	0.042	
A_exp	=	0.487 D_exp	=	0.514% agr = 95.8	3
Kappa = 0	.919	Alpha = 0.919		Kappa = 0.919	

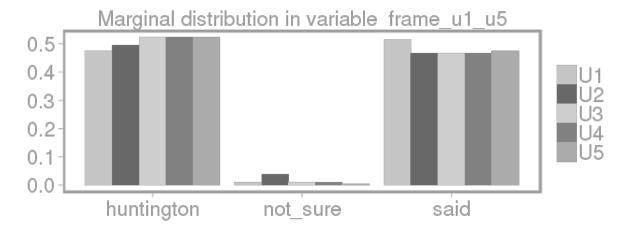


Figure 14 User Classification Results

Kappa (κ)	Interpretation
0.41 - 0.60	Moderate agreement
0.61 - 0.80	Substantial agreement
0.81 - 1.00	Almost perfect agreement

Figure 15 Kappa Interpretation

¹⁸ Pairwise agreement is the agreement between a pair of coders; the average pairwise agreement is the average of all pairwise agreements using all possible coder pairs.

Using the majority vote from our user-classified results, we evaluated our classifier performance by calculating sensitivity, specificity, precision and accuracy measures (Figure 16). Sensitivity of a system relates to how well the test predicts a class correctly; specificity relates to how well the test excludes a class correctly; the precision relates to reproducibility and repeatability; and the accuracy relates to how well the binary classifier identifies a class. Our results suggest high performance of the classifier on all measures. The majority vote resolves the disagreements among human coders and provides a set of truth-labels against which we can evaluate our classifier. Our classification accuracy was very high (99.03%), which implies that our machine classifier accurately predicted human classified articles. An accuracy of 100% implies that the predicted values are exactly the same as the actual values.

Sensitivity	TP /(TP+FN)	100.00%
Specificity	TN/(TN+FP)	97.92%
Precision	TP (TP+FP)	98.21%
Accuracy	(TP+TN)/(TP+FP+FN+FP)	99.03%

Figure 16 Classifier Performance

The non-conflict and conflict map pages show the treemap of 50 most frequent terms for each category. It also provides sample articles that are classified in the respective category using the Said-Huntington index. We asked the users to go through conflict and non-conflict map pages and describe whether the sample articles were classified correctly. The goal of this task was to ascertain whether the tool could classify discourse based on the conflict/non-conflict criterion. The experimental evaluation of the task was based on the following question:

Did the users agree with the assertion that the sample articles in the conflict and nonconflict maps are classified appropriately?

Task 2 Results

Our results indicate that there was 90.9% average pairwise user agreement on the classification of our results. And in addition, the users "agreed" with our classification results in 59 out of 60 cases (Figure 17, 18).

(A = Agree; NAD = Neither Agree Nor Disagree)

	User1	User2	User3	User4	User5
Al Jazeera	A	A	A	A	A
Times of India	A	A	A	A	A
The New York Times	A	A	A	A	A
Daily Mail Online	A	A	A	A	A
USA Today	A	A	A	A	A
Washington Post	A	NAD	A	A	A
Dawn	A	A	A	A	A
Reuters	A	A	A	A	A
Fox News	A	A	A	A	A
The News International	A	A	A	A	A
MSNBC	A	A	A	A	A

Figure 17 Pairwise User Agreement on Conflict/Non-Conflict Maps Classification

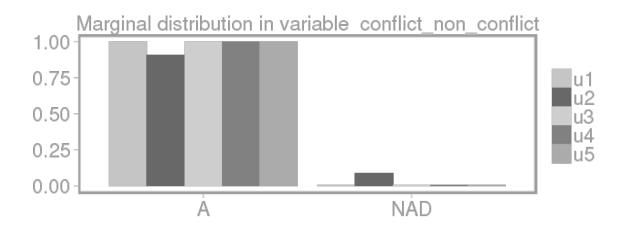


Figure 18 Marginal Distribution of Conflict/Non-Conflict Maps Classification

Our tool delineates conversations for a media source (such as Al Jazeera or Reuters) by extracting five topics and corresponding keywords using the LDA model. In task 3, we asked the users to go through each LDA-generated conversation. We asked them to describe: a) whether they agreed with the Said-Huntington index classification for the conversation; and b) whether the topic or conversation, as a whole, was coherent.

The experimental evaluation of the task was based on the following questions:

- a) How effective was the LDA model in discovering the latent topics in each media news corpus? Did the users classify the topics as semantically coherent?
- b) How effective was Said-Huntington index in classifying these conversations in terms of conflict and non-conflict?

Task 3 Results

The users found 86% (Figure 19) of conversations as semantically coherent, implying that our algorithm was effective in extracting coherent topics.

Topic Coherent?	User1	User2	User3	User4	<i>User5</i>		
(YES)	48	39	<i>57</i>	55	<i>57</i>	256	85.33%
(Somewhat)	8	13	3	4	3	31	10.33%
(NO)	4	8	0	1	0	13	4.33%
						300	100.00%

Figure 19 Topic Coherence Results

There was 77.5% pairwise user agreement on whether our topics were coherent or not (Figure 20).

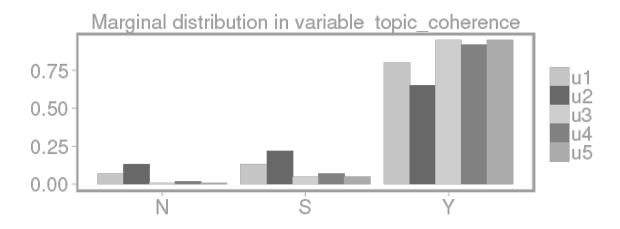


Figure 20 Marginal Distribution of Topic Coherence

The users rated 95% (Figure 21) of conversations as classified correctly, implying that our algorithm was effective in the classification of these conversations.

$Total\ conversations = 60$						
	User1	User2	User3	User4	User5	
Agree	58	52	58	58	59	95.00%
Disagree	2	4	2	2	1	3.67%
Neither Agree nor Disagree	0	4	0	0	0	1.33%
	60	60	60	60	60	

Figure 21 Topic Classification Ratings

There was 92.5% average pairwise user agreement on whether the user agreed with our classification of the conversation or topic (Figure 22).

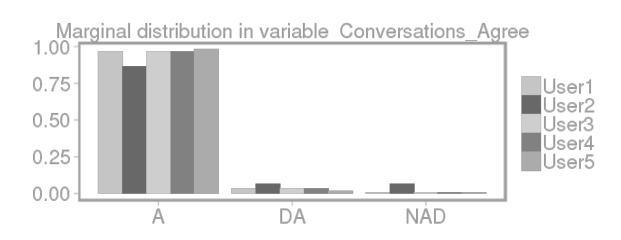


Figure 22 Marginal Distribution of Conversations Agreement

As part of tool's teleology and functionality our goal was to ascertain whether the tool can delineate media discourse based on our conflict hypothesis and Said-Huntington classification index. We wanted to determine whether the tool was effective in presenting and demarcating the latent discourse patterns to the user. The experimental evaluation of tool's functionality was based on the following questions:

- a) After using the tool, did the users agree with the thesis that global media largely covers Islam in the context of conflict?
- b) Did the users find the tool helpful in understanding/deciphering the global media discourse on Islam?
- c) Did the users agree with the assertion that Said-Huntington index effectively classifies the conversations and the articles?

Results Task 4

The tool is based on the hypothesis that mainstream global media tends to lean toward dangerous "clash of civilizations" frame by focusing primarily on conflict. Our results from the task 4 suggest that the implementation of tool on the basis of CDA framework allowed users to interpret the discourse in the critical/ideological sense. The users confirmed our hypothesis by interpreting the insights from our tool. The results of task 4 are as follows:

All the users "strongly agreed" with our hypothesis that global media largely covers
 Islam in the context of conflict.

- Four out of five users found the tool "very helpful" in understanding/deciphering the global media discourse on Islam; one user found it "somewhat helpful".
- Three users "strongly agreed" with the assertion that the Said-Huntington index effectively classifies the conversations and the articles; while two just "agreed" with the assertion.

The user interface is an integral part of the tool since it determines how well it translates its design goals. The experimental evaluation of the tool interface was based on the following questions:

- a) Did the users agree with the assertion that the visual representations and color layouts in the tool were effective in unraveling the underlying discourse structure of the media coverage?
- b) Did the users find the tool navigation uncomplicated and straightforward?
- c) Did the users agree with the assertion that the scorecard visual interface effectively communicates the conflict coverage for the media sources?
- d) Did the users find conflict- and non-conflict map visualizations helpful in understanding the conflict content?
- e) Did the users find the color highlighting of conflict- and state-related terms helpful in visualizing the conflict coverage?
- f) Did the users find color-coded bubble charts/frames effective in delineating different conversations/topics within a media source?

Results Task 5

The feedback from task 5 suggests that the tool met its interface design goals. The results of task 5 are as follows:

• Four out of five users "agreed" with the assertion that the tool navigation is uncomplicated and straightforward, while one user "disagreed" with the assertion.

- All the users "agreed" with the assertion that the scorecard visual interface effectively communicates the conflict coverage for the media sources.
- Three users found the conflict- and non-conflict map visualizations "very helpful" in understanding the conflict content, while one found it "helpful" and one found it "somewhat helpful".
- Three users found the color highlighting of conflict- and state-related terms "very helpful" in visualizing the conflict coverage, while two found it "helpful".
- Four out of five users found the color-coded bubble charts/frames "effective" in delineating different conversations/topics within a media source. One user found it "somewhat effective".
- Three out of five users "strongly agreed" with the assertion that the visual representations and color layouts in the tool were effective in unraveling the underlying discourse structure of the media coverage. Two users just "agreed" with the assertion.

Finally, we wanted to evaluate the tool on its practical usability in different settings. As part of evaluation we asked the users to provide feedback on the applications of the tool.

Task 6 Results

The results (Figure 23) suggest that the users see the application of the tool in diverse settings. All users suggested that the tool could be used in newsrooms, media organizations and academic research.

A summary of the results is given below:

		This tool could be used in:			
	Newsrooms	Watchdog organizations	Academic Research	Media Organization	Marketing
U1	X		X	X	
<i>U2</i>	X	X	X	X	
U3	X	X	X	X	X
U4	X	X	X	X	X
115	X	X	X	X	

Figure 23 Feedback on Tool's Practical Usability in Different Settings

Insights & Findings

Coverage of Islam

Our scorecard data confirms our hypothesis that the mainstream media largely covers Islam in terms of conflict. We found that nine out of twelve media sources covered Islam in the context of conflict¹⁹ (Figure 24).

Source	Conflict %	Country of Origin	Religion	<i>Conflict</i> % > 50?
Al Jazeera	93%	Qatar	Muslim	Yes
Times of India	37.60%	India	Non-Muslim	No
The New York Times	82.70%	USA	Non-Muslim	Yes
Daily Mail Online	64.50%	UK	Non-Muslim	Yes
USA Today	86%	USA	Non-Muslim	Yes
Washington Post	83.60%	USA	Non-Muslim	Yes
Dawn	64.20%	PK	Muslim	Yes
Reuters	84.60%	UK	Non-Muslim	Yes
Fox News	84.90%	USA	Non-Muslim	Yes
The News	37.10%	PK	Muslim	No
MSNBC	75.80%	USA	Non-Muslim	Yes

Figure 24 Conflict Scorecard Results

It is surprising that Al Jazeera—whose vision is "to introduce to the Arab world free reporting that is distant from propaganda, and at the same time to give the Arab world the opportunity to express opinions" (Barker, 2007)— largely covers Islam within the context of conflict. About 93% of its articles represented coverage related to conflict.

¹⁹ Our user evaluation of conflict and non-conflict article samples supports the validity of our findings. The users

[&]quot;agreed" with our classification of conflict and non-conflict articles in 59 out of 60 cases.

Similarly, Dawn News, which is the second most widely-read newspaper (Shah, 2010) in Pakistan (where 97% of Pakistanis are Muslims), also covered Islam essentially in the context of conflict (64%). In contrast, The News International, the largest newspaper (Shah, 2010) in Pakistan, reported about 37% of its articles on conflict related issues.

On the other hand, less than 38% of articles in the Times of India—which is the largest English-language daily newspaper in the world (Thussu, 2013)—were related to conflict. For a country like India, which has been actively engaged in cross-border conflict with Pakistan, it is notable to see its most popular newspaper reporting nearly 72% of articles on non-conflict issues. In the next part, we will analyze the example of the Times of India in detail to demonstrate some discourse-related findings and insights from out tool.

The Times of India Example

The Times of India has one of the lowest percentages of conflict articles in its corpus. An appraisal of its conversations also supports this aspect. Three out of five of its conversations are classified as non-conflict on the Said-Huntington index (Figure 25). The users agree with the Said-Huntington index classification in 24 out of 25 cases (96%) of conversations within Times of India; there are no conversations that the user found not coherent, implying that the conversations were semantically coherent topics. In the next sections, we will examine each conversation individually.

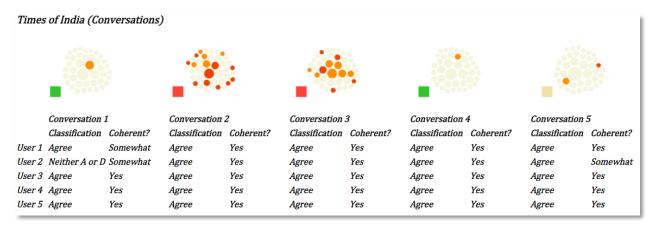


Figure 25 Times of India Conversations

The first conversation (Figure 26) in Times of India loosely exhibits the discourse surrounding India's domestic politics. It is a strong topic, as the topic strength of 85% suggests. Its Said-Huntington index is 13, which classifies it as a non-conflict conversation. The conversation exhibits heterogeneity of voices from its diverse communities. Terms like 'minority', 'religion', 'modi', 'government', 'sikh', 'law', 'bill' and 'population' suggest a permeation of state interest in its sub-national groups.

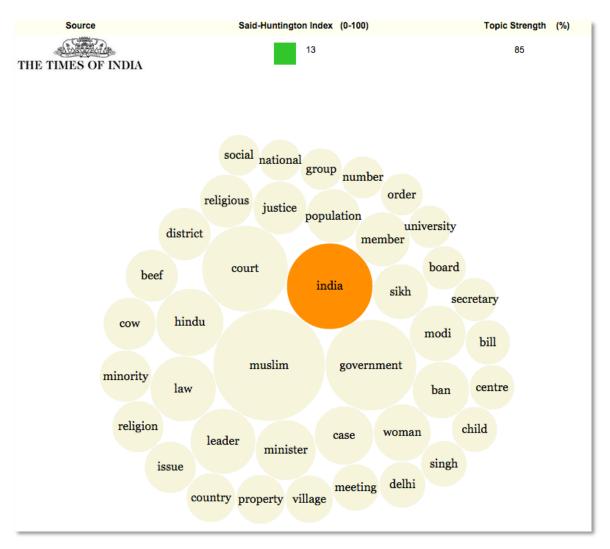


Figure 26 Times of India Conversation 1

The second conversation (Figure 27) is a prototypical conflict conversation. Terms like 'attack', 'military', 'terror', 'violence', 'isil' and 'syria' suggest that this conversation represents ongoing global conflict in the Middle East. Its Said-Huntington index of 100 classifies it as a conversation typified by extreme conflict. It is plagued with conflict-related terms like 'attack', 'military', 'terror', 'violence', 'isil' and 'syria'.

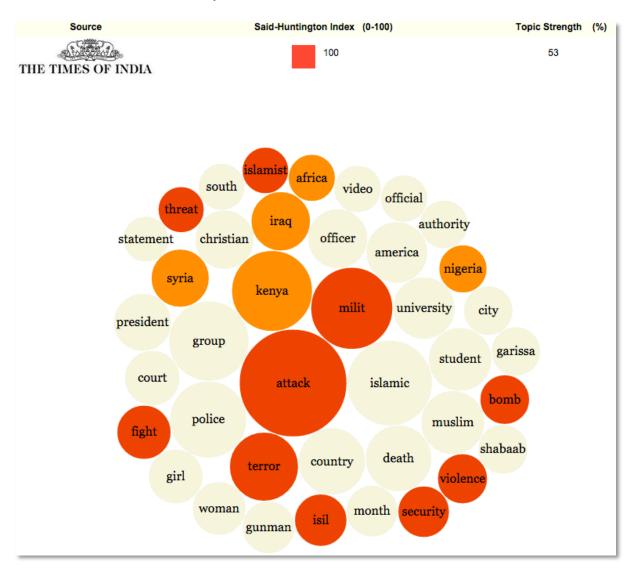


Figure 27 Times of India Conversation 2

The third conversation (Figure 28) could represent recent ongoing conflict in Yemen that has created major fault lines in the region. Like the previous conversation, its Said-Huntington index is 100, which classifies it as a conversation of extreme conflict. It is the strongest topic in the conversation cluster, as the topic score of 100% suggests. Terms like 'yemen', 'iran', 'pakistan' and 'saudi' describe the key actors in the conflict, whereas terms like 'security', 'milit', 'force' and 'strike' denote conflict engagements.

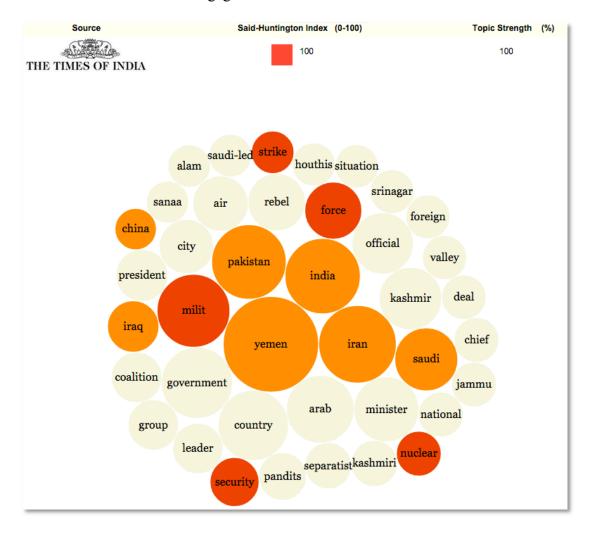


Figure 28 Times of India Conversation 3

The fourth conversation (Figure 29) could represent political dialectics surrounding the Muslim community in India. Terms like 'muslim', 'urdu' and 'islam' typify Muslim community. The topic strength of 61% suggests that it is a moderately strong topic. Its Said-Huntington index is 7, which classifies it as a non-conflict conversation. Terms like 'congress', 'mim', and 'election' could be explained by recent by-elections in Bandra²⁰, India, where Congress and MIM²¹, two Indian parties, competed for Muslim vote in the region. The presence of the term 'bjp' could be described in the context of Bharatiya Janata Party's relationship with Muslims. BJP is a well-known exponent of Hindu nationalism in India and the Muslims in India see BJP as an opposition against Muslim communal concerns.

 $^{^{20}\} http://timesofindia.indiatimes.com/city/mumbai/Congress-and-MIM-compete-for-Muslim-vote-in-Bandra-bypoll/articleshow/46752713.cms$

²¹ All India Majlis-e-Ittehadul Muslimeen

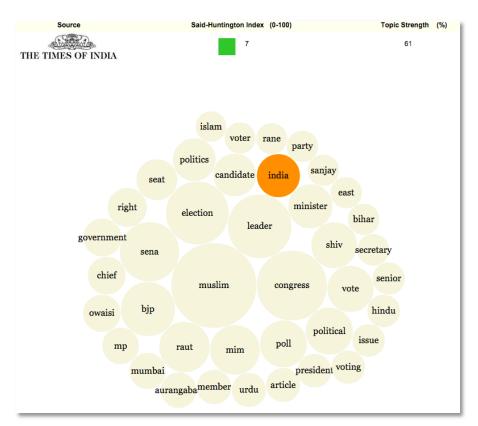


Figure 29 Times of India Conversation 4

The fifth conversation (Figure 30) is relatively hard to interpret, even though four out of five users categorized it as a semantically coherent topic. It has moderately strong topic strength of 65%. Its Said-Huntington index is 24, which classifies it as a non-conflict conversation, yet it contains the term 'terror'. But overall the topic exhibits city/municipal politics with terms like 'police', 'city', 'area', 'resident', 'house', 'local' and 'district'. Presence of terms like 'mosque', 'temple' and 'church' could denote the sacred public spaces, which are part of day-to-day civic life in India.

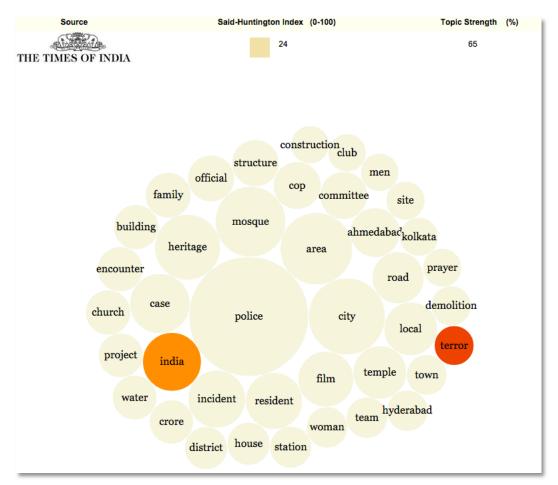


Figure 30 Times of India Conversation 5

Our preceding analysis suggests that the discourse in Times of India is not exclusively centered on conflict. When Islam or Muslims are discussed in Times of India, they are discussed in a diverse range of topics.

Discussion

In accordance with the objectives of my research, I have developed a tool that uses data driven approaches for classifying news articles to identify polarization, bias and the dominant discourses in mainstream news media. This tool detected that coverage in several news sources tends to disproportionately portray Muslims as a group embroiled in conflict, hence confirming my hypothesis that discourse on Islam in mainstream global media has privileged the "clash of civilizations" frame.

As a practical application, my tool attempts to deconstruct the stereotypical discourse on Islam in the mainstream media to address a bias problem in global journalism that affects 1.6 billion Muslims worldwide and their relationship with the rest of the world.

The tool presented here has been developed for use in both newsrooms and academic settings. Individuals, civic society members and ethnic and religious organizations can use this tool to highlight cultural stereotyping and bias in the media. The tool empowers user-creators to substantiate their concerns around bias and agendas with qualitative, data-supported evidence. The tool facilitates the agency of user-creators to make media and public organizations more accountable, bias-free and transparent.

As part of the tool implementation, I have also developed Said-Huntington Index, a composite indicator for measuring the degree of conflict in news documents. In the user evaluation of the tool, I tested whether the thematic patterns extracted from the tool lend support to our hypothesis. The tool was evaluated using quantitative, qualitative and statistical methods. The

evaluation results suggest that the tool met its design and implementation objectives. In the machine learning implementation component of the tool, I developed a heuristic for producing the best performing classifier for predicting conflict in an article. I evaluated the classifier on human-classified articles and found that the accuracy of the classifier was very high (99.03%). This implies that the heuristic produces high-performance classifiers.

Our tool delineates semantically meaningful conversations for a media source using LDA topic modeling, allowing the users to discover frames of conversations on the basis of Said-Huntington index classification. In our user evaluation, the users rated 95% of conversations as classified correctly, implying that our algorithm was effective in the classification of these conversations.

This thesis is an attempt to create a hypothesis-driven framework using Critical Discourse Analysis to produce a computational tool that could be used for discourse analysis in applied settings. Generally, text analysis tools uncover patterns and trends in the data without delineating the 'ideology' that is embedded in the text. In contrast, our tool delineates the ideology that permeates the text. Hence, this tool is a novel computational application of critical theory. It is also important to bear in mind that critical theory has been criticized for elitist theorizing (Mack, 2010) and lack of "extended empirical studies" (Alvesson and Deetz, 2000, p. 110). This tool not only has the capacity to test empirical evidence hypotheses/claims/conclusions from critical theory through practical application of Critical Discourse Analysis, it also provides a practical hermeneutics for media narratives.

Limitations & Future Directions

One of the main limitations with the tool is that at this point in time it does not allow the users to ask hypothesis-driven questions of their own. A generalized version of the tool that extracts conversations and topic maps based on standard topics is relatively easy to implement but my goal is to retain the CDA functionality in the generalized version. As part of the next iteration, I aim to implement another instance of this technological framework that will attempt to delineate American media discourse on the African-American community from the point of view of crime. This implementation will allow me to develop a generalized set of implementation parameters that will enable the users to utilize this tool for querying on open questions.

Another limitation with the tool, which I aim to overcome in future work, is that the users cannot use an LDA-generated conversation to retrieve news stories that could be classified within the context of the conversation. We can easily provide this functionality by converting lexical features of the conversation into a classifier.

Finally, the tool currently provides cross-sectional data insights, which do not take into account the time dimension. As part of future work, I intend to incorporate in the tool the longitudinal data perspective, which will allow the users to see the changes in discourse over time.

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Appendix

User Evaluations Survey/Questionnaire	
Said-Huntington Discourse Analyzer	
Survey	
NAME:	
DATE [.]	

Topics/Conversations Questions

ME	DIA SOURCE:			
AL	JAZEERA			
	o you agree with system's Said Strongly Disagree Disagree Neither agree nor disagree Agree Strongly Agree Not sure/not applicable	l-Huntington index c	lassification for conversation	n 1?
	Is it a coherent topic? Yes	No	Somewhat	
	o you agree with system's Said Strongly Disagree Disagree Neither agree nor disagree Agree Strongly Agree Not sure/not applicable	l-Huntington index c	lassification for conversation	n 2?
	s it a coherent topic? Yes	No	Somewhat	
	o you agree with system's Said Strongly Disagree Disagree Neither agree nor disagree Agree Strongly Agree Not sure/not applicable	l-Huntington index c	lassification for conversation	n 3?
	s it a coherent topic? Yes	No	Somewhat	

- 4) Do you agree with system's Said-Huntington index classification for conversation 4?Strongly Disagree

Somewhat
ssification for conversation 5?
Somewhat
s in the conflict and non-conflict maps

The New York Times

1) Do	you agree with system's Said-H	funtington index of	classification for conversation	n 1?
0	Strongly Disagree			
0	Disagree			
0	Neither agree nor disagree			
0	Agree			
0	Strongly Agree			
0	Not sure/not applicable			
Is	it a coherent topic? Yes	No	Somewhat	
2) Do	you agree with system's Said-H	luntington index of	classification for conversation	n 2?
	Strongly Disagree			
0	Disagree			
0	2			
0	· ·			
	Strongly Agree			
0	Not sure/not applicable			
Is	it a coherent topic? Yes	No	Somewhat	
3) Do	you agree with system's Said-H	funtington index of	classification for conversation	n 3?
0		C		
0	Disagree			
0	ST 1.1			
0	Agree			
0	Strongly Agree			
0	Not sure/not applicable			
Is	it a coherent topic? Yes	No	Somewhat	
4) Do	you agree with system's Said-H	Tuntington index (plassification for conversation	n 49
0	Strongly Disagree	iditington mack	dassification for conversation	л. т.
0	Disagree			
0	Neither agree nor disagree			
0	Agree			
0	Strongly Agree			
0	Not sure/not applicable			
Is	it a coherent topic? Yes	No	Somewhat	

5) Do	you agree with system's Said-Huntington index classification for conversation 5?				
0	Strongly Disagree				
0	Disagree				
0	Neither agree nor disagree				
0	Agree				
0	Strongly Agree				
0	Not sure/not applicable				
	Is it a coherent topic? Yes No Somewhat				
	you agree with the assertion that the sample articles in the conflict and non-conflict maps				
	assified appropriately?				
0	Strongly Disagree				
0	Disagree Note that the same of				
0	Neither agree nor disagree				
0	Agree				
0	Strongly Agree				
0	Not sure/not applicable				



1) Do	you agree with system's Said-	Huntington index of	classification for conversation	on 1?
0	· ~ ·			
0	Disagree			
0	Neither agree nor disagree			
0	Agree			
0	Strongly Agree			
0	Not sure/not applicable			
Is	it a coherent topic? Yes	No	Somewhat	
2) Do	you agree with system's Said-	Huntington index of	classification for conversation	on 2?
	Strongly Disagree	C		
	Disagree			
0	Neither agree nor disagree			
0	Agree			
0	Strongly Agree			
0	Not sure/not applicable			
Is	it a coherent topic? Yes	No	Somewhat	
3) Do	you agree with system's Said-	Huntington index (classification for conversation	n 39
	Strongly Disagree	rumbion mach		
	Disagree			
	Neither agree nor disagree			
	Agree			
0	Strongly Agree			
0	Not sure/not applicable			
Is	it a coherent topic? Yes	No	Somewhat	
4) Do	you agree with system's Said-	Huntington index of	classification for conversation	n 4?
0	Strongly Disagree			
0	Disagree			
0	Neither agree nor disagree			
0	Agree			
0	Strongly Agree			
0	Not sure/not applicable			

Is	it a coherent topic?	Yes	No	Somewhat	
5) Do	you agree with syste Strongly Disagree Disagree Neither agree nor d Agree Strongly Agree Not sure/not applic	isagree	ntington index	classification for conversation 59	
Is	it a coherent topic?	Yes	No	Somewhat	
classif	ou agree with the asse fied appropriately? Strongly Disagree	ertion that the	sample article	es in the conflict and non-conflict	maps are

- o Disagree
- Neither agree nor disagree

- Agree
 Strongly Agree
 Not sure/not applicable

Daily & Mail

1) D.	
	you agree with system's Said-Huntington index classification for conversation 1?
	Strongly Disagree Disagree
0	N '41 1'
0	
	Strongly Agree
	Not sure/not applicable
Ū	1.00 But 4 1100 upp 1.000 up
Is	it a coherent topic? Yes No Somewhat
2) Do	you agree with system's Said-Huntington index classification for conversation 2?
	Strongly Disagree
	Disagree
0	Neither agree nor disagree
0	Agree
0	Strongly Agree
0	Not sure/not applicable
Is	it a coherent topic? Yes No Somewhat
3) Do	you agree with system's Said-Huntington index classification for conversation 3?
0	
0	D:
0	Neither agree nor disagree
0	Agree
0	Strongly Agree
0	Not sure/not applicable
Is	it a coherent topic? Yes No Somewhat
1) D	
	you agree with system's Said-Huntington index classification for conversation 4?
0	Strongly Disagree
0	Disagree Neither agree per disagree
0	Neither agree nor disagree
0	Agree Strongly Agree
0	Not sure/not applicable
0	ivot sure/not applicable

Is	t a coherent topic? Yes No Somewhat
5) Do	you agree with system's Said-Huntington index classification for conversation 5?
	Strongly Disagree
0	Disagree
0	Neither agree nor disagree
0	Agree
0	Strongly Agree
0	Not sure/not applicable
Is	t a coherent topic? Yes No Somewhat
6) Do	you agree with the assertion that the sample articles in the conflict and non-conflict maps
are cla	ssified appropriately?
0	Strongly Disagree
0	Disagree
0	Neither agree nor disagree
0	Agree
0	Strongly Agree
0	Not sure/not applicable



	you agree with system's Said-Huntington index classification for conversation 1?
0	Strongly Disagree
0	
0	
0	
	Strongly Agree
0	Not sure/not applicable
Is	it a coherent topic? Yes No Somewhat
2) Do	you agree with system's Said-Huntington index classification for conversation 2?
	Strongly Disagree
	Disagree
0	NY 14
0	•
0	Strongly Agree
	Not sure/not applicable
Is	it a coherent topic? Yes No Somewhat
3) Do	you agree with system's Said-Huntington index classification for conversation 3?
	Strongly Disagree
0	D:
0	NY 14
0	
0	Strongly Agree
	Not sure/not applicable
Is	it a coherent topic? Yes No Somewhat
1) D	
	you agree with system's Said-Huntington index classification for conversation 4?
0	Strongly Disagree
0	Disagree Naither agree non disagree
0	Neither agree nor disagree
0	Agree
0	Strongly Agree
0	Not sure/not applicable

Is	it a coherent topic? Yes	No	Somewhat	
0	you agree with system's Said-He Strongly Disagree Disagree	untington index	classification for conversation 5°	?
0	Neither agree nor disagree			
0	Agree			
	Strongly Agree Not sure/not applicable			
0	Not sure/not applicable			
Is	it a coherent topic? Yes	No	Somewhat	
6) Do	you agree with the assertion that	at the sample art	icles in the conflict and non-con	flict maps
_	assified appropriately?	1		1
	Strongly Disagree			
0	Disagree			
0	Neither agree nor disagree			
0	Agree			
0	Strongly Agree			
0	Not sure/not applicable			



0 0 0 0	you agree with system's Said- Strongly Disagree Disagree Neither agree nor disagree Agree Strongly Agree Not sure/not applicable	Huntington index clas	ssification for conversation	1?
Is	it a coherent topic? Yes	No	Somewhat	
0 0 0	you agree with system's Said- Strongly Disagree Disagree Neither agree nor disagree Agree Strongly Agree Not sure/not applicable	Huntington index clas	ssification for conversation 2	2?
Is	it a coherent topic? Yes	No	Somewhat	
0 0 0	,	Huntington index clas	ssification for conversation	3?
Is	it a coherent topic? Yes	No	Somewhat	
4) Do	you agree with system's Said- Strongly Disagree Disagree Neither agree nor disagree Agree Strongly Agree Not sure/not applicable	Huntington index clas	ssification for conversation	4?
Is	it a coherent topic? Yes	No	Somewhat	

5) Do	you agree with system's Said-Huntington index classification for conversation 5?
0	Strongly Disagree
0	Disagree
0	Neither agree nor disagree
0	Agree
0	Strongly Agree
0	Not sure/not applicable
Is	it a coherent topic? Yes No Somewhat
6) Do	you agree with the assertion that the sample articles in the conflict and non-conflict maps
are cla	assified appropriately?
0	Strongly Disagree
0	Disagree
0	Neither agree nor disagree
0	Agree
0	83 8
0	Not sure/not applicable



0 0 0	you agree with system's Said-H Strongly Disagree Disagree Neither agree nor disagree Agree Strongly Agree Not sure/not applicable	Iuntington index	classification for conversation	1?
Is	it a coherent topic? Yes	No	Somewhat	
0 0 0	you agree with system's Said-H Strongly Disagree Disagree Neither agree nor disagree Agree Strongly Agree Not sure/not applicable	Iuntington index	classification for conversation 2	2?
Is	it a coherent topic? Yes	No	Somewhat	
0 0 0 0	, &	Iuntington index	classification for conversation 3	3?
Is	it a coherent topic? Yes	No	Somewhat	
4) Do	you agree with system's Said-H Strongly Disagree Disagree Neither agree nor disagree Agree Strongly Agree Not sure/not applicable	Iuntington index	classification for conversation 4	4?
Is	it a coherent topic? Yes	No	Somewhat	

5) Do	you agree with system's Said-Huntington index classification for conversation 5?				
0	Strongly Disagree				
0	Disagree				
0	Neither agree nor disagree				
0	Agree				
0	Strongly Agree				
0	Not sure/not applicable				
6) Do	Is it a coherent topic? Yes No Somewhat 6) Do you agree with the assertion that the sample articles in the conflict and non-conflict maps				
are cla	assified appropriately?				
0	Strongly Disagree				
0	Disagree				
0	Neither agree nor disagree				
0	Agree				
0	Agree Strongly Agree are/not applicable				



0 0 0	Strongly Disagree Disagree Neither agree nor disagree	ntington index	classification for conversation 1?
Is	it a coherent topic? Yes	No	Somewhat
0 0 0 0	Strongly Disagree Disagree Neither agree nor disagree	ntington index	classification for conversation 2?
Is	it a coherent topic? Yes	No	Somewhat
0 0 0	Strongly Disagree Disagree	ntington index	classification for conversation 3?
Is	it a coherent topic? Yes	No	Somewhat
4) Do	you agree with system's Said-Hur Strongly Disagree Disagree Neither agree nor disagree Agree Strongly Agree Not sure/not applicable	ntington index	classification for conversation 4?
Is	it a coherent topic? Yes	No	Somewhat

5) Do	you agree with system's Said-Huntington index classification for conversation 5?
0	Strongly Disagree
0	Disagree
0	Neither agree nor disagree
0	Agree
0	Strongly Agree
0	Not sure/not applicable
Is	it a coherent topic? Yes No Somewhat
6) Do	you agree with the assertion that the sample articles in the conflict and non-conflict maps
are cla	assified appropriately?
0	Strongly Disagree
0	Disagree
0	Neither agree nor disagree
0	Agree
0	Strongly Agree
0	Not sure/not applicable



0	you agree with system's Said-Huntington index classification for conversation 1? Strongly Disagree Disagree
0	NT 141
0	
	Strongly Agree
	Not sure/not applicable
Is	it a coherent topic? Yes No Somewhat
2) Do	you agree with system's Said-Huntington index classification for conversation 2?
	Strongly Disagree
	Disagree
0	NT 141
0	
	Strongly Agree
	Not sure/not applicable
Is	it a coherent topic? Yes No Somewhat
3) Do	you agree with system's Said-Huntington index classification for conversation 3?
	Strongly Disagree
	Disagree
0	37.14
0	
	Strongly Agree
	Not sure/not applicable
Is	it a coherent topic? Yes No Somewhat
1) D -	
	you agree with system's Said-Huntington index classification for conversation 4?
0	Strongly Disagree
0	Disagree Naither agree per disagree
0	Neither agree nor disagree
0	Agree
0	Strongly Agree
0	Not sure/not applicable

Is	s it a coherent topic? Yes	No	Somewhat
5) Do	o you agree with system's Said-Hunting	ton index classifi	cation for conversation 5?
0	Strongly Disagree		
0	Disagree		
0	Neither agree nor disagree		
0	Agree		
0	Strongly Agree		
0	Not sure/not applicable		
Is	s it a coherent topic? Yes	No	Somewhat
6) Do	o you agree with the assertion that the	sample articles in	the conflict and non-conflict maps
	lassified appropriately?	•	•
0	Strongly Disagree		
0	Disagree		
0	Neither agree nor disagree		
0	Agree		
0	Strongly Agree		
0	Not sure/not applicable		

THENEWS

0 0 0 0	Strongly Disagree Disagree Neither agree nor disagree	·Huntington index	classification for conversation	1?
Is	it a coherent topic? Yes	No	Somewhat	
0 0 0 0	Strongly Disagree Disagree	-Huntington index	classification for conversation	2?
Is	it a coherent topic? Yes	No	Somewhat	
0 0 0 0	you agree with system's Said- Strongly Disagree Disagree Neither agree nor disagree Agree Strongly Agree Not sure/not applicable	-Huntington index	classification for conversation	3?
Is	it a coherent topic? Yes	No	Somewhat	
4) Do	you agree with system's Said- Strongly Disagree Disagree Neither agree nor disagree Agree Strongly Agree Not sure/not applicable	-Huntington index	classification for conversation	4?

Is	it a coherent topic? Yes	No	Somewhat
0 0 0 0	Disagree Neither agree nor disagree Agree Strongly Agree	gton index classif	ication for conversation 5?
Is	it a coherent topic? Yes	No	Somewhat
	you agree with the assertion that the assified appropriately?	sample articles in	n the conflict and non-conflict maps
0	Strongly Disagree		
0	Disagree		
0	Neither agree nor disagree		
0	Agree		
0	Strongly Agree		
0	Not sure/not applicable		

the guardian

0 0	Strongly Disagree Disagree Neither agree nor disagree Agree Strongly Agree	on index classification for conversation 1?
Is	s it a coherent topic? Yes N	No Somewhat
0	Strongly Disagree Disagree Neither agree nor disagree Agree Strongly Agree	on index classification for conversation 2?
Is	s it a coherent topic? Yes N	No Somewhat
3) Do	Strongly Disagree Disagree Neither agree nor disagree Agree Strongly Agree	on index classification for conversation 3?
Is	s it a coherent topic? Yes N	No Somewhat
4) Do	Strongly Disagree Disagree Neither agree nor disagree Agree Strongly Agree	on index classification for conversation 4?

Is	it a coherent topic? Yes	No	Somewhat
5) Do	you agree with system's Said-Hun	tington index	x classification for conversation 5?
0	G. 1 D.	tington mae	t classification for conversation 5.
0	Disagree Disagree		
0	Neither agree nor disagree		
0	Agree		
	Strongly Agree		
	Not sure/not applicable		
Is	it a coherent topic? Yes	No	Somewhat
6) Do	you agree with the assertion that t	the sample a	rticles in the conflict and non-conflict maps
are cla	assified appropriately?	-	-
0	Strongly Disagree		
0	Disagree		
0	Neither agree nor disagree		
0	Agree		
0	Strongly Agree		
Not su	re/not applicable		

1) Do	you agree with system's Said-l	Huntington index	classification for conversatio	n 1?
0	Strongly Disagree			
0	Disagree			
0	Neither agree nor disagree			
0	Agree			
0	Strongly Agree			
0	Not sure/not applicable			
Is	it a coherent topic? Yes	No	Somewhat	
2) Do	you agree with system's Said-l	Huntington index	classification for conversatio	n 2?
0	Strongly Disagree			
0	Disagree			
0	Neither agree nor disagree			
0	Agree			
0	Strongly Agree			
0	Not sure/not applicable			
Is	it a coherent topic? Yes	No	Somewhat	
3) Do	you agree with system's Said-l	Huntington index	classification for conversatio	n 3?
0	· ~ ·	C		
0	Disagree			
0	NT 1/1 11			
0	A			
0	Strongly Agree			
0	Not sure/not applicable			
Is	it a coherent topic? Yes	No	Somewhat	
4) Da	von come with avatom's Coid	Uvutin atan in day	alaggification for a necessaria	49
	you agree with system's Said-l	nunungion index	ciassification for conversatio	11 4 !
0	Strongly Disagree Disagree			
0	Neither agree nor disagree			
0	Agree			
0	Strongly Agree			
0	Not sure/not applicable			
J	1 tot but of frot approadic			

Is	t a coherent topic? Yes No Somewhat				
5) Do you agree with system's Said-Huntington index classification for conversation 5?					
	Strongly Disagree				
0	Disagree				
0	Neither agree nor disagree				
0	Agree				
0	Strongly Agree				
0	Not sure/not applicable				
Is	t a coherent topic? Yes No Somewhat				
6) Do you agree with the assertion that the sample articles in the conflict and non-conflict maps					
are classified appropriately?					
0	Strongly Disagree				
0	Disagree				
0	Neither agree nor disagree				
0	Agree				
0	Strongly Agree				
0	Not sure/not applicable				

Hypothesis Questions

Said-Huntington Discourse Analyzer

After using the tool, do you agree with the thesis that global media largely covers Islam in the context of conflict?

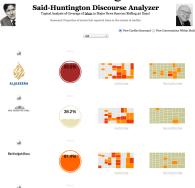
- o Strongly Disagree
- o Disagree
- o Neither agree nor disagree
- o Agree
- Strongly Agree
- Not sure/not applicable

Did you find the tool helpful in understanding/deciphering the global media discourse on Islam?

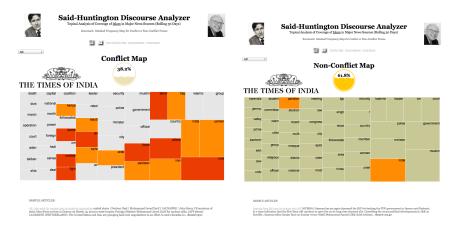
- Very helpful
- o Somewhat helpful
- o Neither helpful nor unhelpful
- o Not helpful at all

User Interface Questions

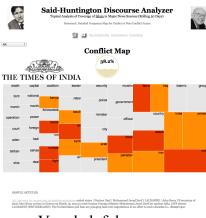
- 1) Do you agree with the assertion that the tool navigation is uncomplicated and straightforward?
 - Strongly Disagree
 - o Disagree
 - o Neither agree nor disagree
 - o Agree
 - Strongly Agree
 - Not sure/not applicable
- 2) Do you agree with the assertion that the scorecard visual interface effectively communicates the conflict coverage for the media sources?



- o Strongly Disagree
- o Disagree
- o Neither agree nor disagree
- o Agree
- Strongly Agree
- Not sure/not applicable
- 3) Did you find the conflict- and non-conflict map visualizations helpful in understanding the conflict content?



- Very helpful
- o Helpful
- Somewhat helpful
- o Neither helpful nor unhelpful
- Not helpful at all
- 4) Did you find the color highlighting of conflict- and state-related terms helpful in visualizing the conflict coverage?



- Very helpful
- o Helpful
- o Somewhat helpful
- o Neither helpful nor unhelpful
- Not helpful at all
- 5) Did you find color-coded bubble charts/frames effective in delineating different conversations/topics within a media source?



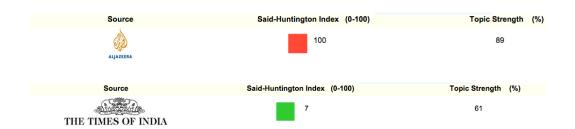






- Very effective
- o Effective
- Somewhat effective
- o Neither effective nor ineffective
- Not effective at all

6) Do you agree with the assertion that Said-Huntington index effectively classifies the conversations and the articles?



- o Strongly Disagree
- o Disagree
- o Neither agree nor disagree
- o Agree
- Strongly Agree
- o Not sure/not applicable
- 7) Do you agree with the assertion that visual representations and color layouts in the tool were effective in unraveling the underlying discourse structure of the media coverage?



- o Strongly Disagree
- o Disagree
- o Neither agree nor disagree
- o Agree
- Strongly Agree
- Not sure/not applicable
- 8) This tool could be used in: (Check all that apply)

Newsrooms
Watchdog organizations

Academic research

Media organizations

___ Marketing

 Ethnographic studies
Not sure

User Classification of Articles Form

Name:
1)AJE h id:1:326770614:100.0:
The fallen leaves of the Arab Spring hope self-searching middle east north africa reel conflict effect million syria grinding conflict month march practical significance reminder life livelihood innocence historical treasure tie violence account goal citizen arab spring country lofty choosing tyranny freedom dictatorship democracy pol
High hopes of 2011 replaced by self-searching as Middle East and North Africa reel from conflicts' devastating effects. However, for millions of Syrians trapped in a grinding conflict the month of M Conflict
Non-Conflict
O Not-sure
No Answer Recorded
2)AJE h id:2:326780690:100.0:
Syria is dead, long live the Syrians approach politics conflict diplomacy mar gmt war conflict human right politics east syria crisil jamesdenselow syria population country equivalent population croatia population dependent syria percent light syria national poverty report syria expectancy conflict medecins sans frontieres msf doctor
The approach of prioritising the 'hard politics' of conflict and diplomacy has failed. 15 Mar 2015 06:00 GMT War & Conflict , Human Rights , Politics , Middle East , Syrian crisis @JamesDenselow Sy Conflict
Non-Conflict
Not-sure No Answer Recorded
No Allswei Recuiteu

3)AIE h id:3:326801213:100.0:

Analysis: Syria's chessboard politics

lesson learnt syria crisil regional event statement regional implication israel war lebanon basic geopolitical rule politics region cold war regional event local event implication necessity regional international egypt syria epicentre arab homeland unfolding event middle eastern chessboard politics...

The Middle East is in reality an organic place where local identities are as strong as ideological attachments. 15 Mar 2015 09:20 GMT | War & Conflict , Politics , Human Rights , Middle East , ISIL @...

Conflict
Non-Conflict
Not-sure

No Answer Recorded

--

5)AJE h id:5:326820264:100.0:

Syria and the battered minorities of the Middle East

syria minority middle east attack murder abduction humiliation minority middle east level mar gmt war conflict politics human right middle east syria nation harryhagopian neighbourhood east jerusalem christian muslim family armenia arab christian muslim neighbour mum sensitive background armenia pa...

Syria and the battered minorities of the Middle East Attacks, murders, abductions and the

humiliation of minorities in the Middle East have now reached frightening levels. 15 Mar 2015 10:52 GMT War
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

6)AJE s id:1:327303347:4.0:
Myanmar court jails three for insulting Buddhism trio zealand national facebook depiction buddha headphone trio posting flyer social medium psychedelic depiction buddha headphone phillip blackwood tun thurein htut ko ko lwin insulting religion month disobeying order public servant trial gastro bar manager blackwood bar owner tun thurein employee
Trio, including a New Zealand national, convicted over Facebook post showing depiction of Buddha wearing headphones. The trio was convicted for posting a flyer on social media that showed a psychedel Conflict Non-Conflict
O Not-sure
No Answer Recorded
7)MSNBC h id:6:326807483:100.0:
Why Europe Is Pushing for Its Own Army france soldier infantry regiment ri bison rocco combat operation finger village dwakoleh surobi district sept ramstein germanyy conflict nato border case paneuropeanarmcommander multinational coalition force america long-term plan creation joint european union force backer efficient defense spendi
French soldiers from The 126 Infantry Regiment (RI) The Bisons based at Rocco Combat Out Post take part in Operation 'Glued Finger 2' in the village of Dwakoleh in Surobi District, Sept. 21, 2010. RA
Conflict
O Non-Conflict
Not-sure
No Answer Recorded

8)MSNBC h id:7:327087998:100.0:

Meet the Press Transcript - March 15, 2015

meet press march letter ayatollah republican supreme leader hillary clinton convenience personal email account controversy email presidential bid democrat plan divide america middle lindsey graham meet press email washington politician bridge century chuck todd insight analysis bai yahoo hillary cl...

america jeremy woodward pose front isil emblem wall northern iraq kurdish troop fight isil coalition airstrikes isil position village white smoke target kurdish troop dozen volunteer america behalf milit volunteer milit northern iraq taste fight kurd burning village bulldozer fresh earth defensive ...

American Jeremy Woodward poses in front of an ISIS emblem painted on a wall in northern Iraq where he's joined Kurdish troops in their fight against ISIS. It began with coalition airctribes that noun

an sames that pour
Conflict
Non-Conflict
Not-sure
💽 No Answer Recorded

10)MSNBC h id:9:328095509:100.0:

Tunisia Attack: Is Arab Spring's Success Story Over?

bystander guard bardo museum tunis tunisia tunisia troop major city massacre showpiece museum country implication attack status arab spring success death toll siege tunisia museum foreigner unity defiance display north africa nation democracy president beji essebsi thousand street capital solidarit...

Bystanders watch as policemen guard the Bardo museum in Tunis, Tunisia, Thursday.

Tunisia deployed troops to protect its major cities Thursday following a massacre in one of its showpiece museums, as
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

11)MSNBC h id:10:328371949:100.0:
ISIS Is Rich, But Spending Money Fast isil analysis expert isil richest terror group iraq bank hundred million dollar official initial report theft estimate cost caliphate ground war intelligence analyst cash crunch group windfall oil revenue donation christian hostage executive chairman combating terror center west isil territory expe
ISIS A new analysis by experts shows that ISIS is now the richest terror group in the world, thanks to a 2014 raid on an Iraqi bank that may have netted hundreds of millions of dollars Officials who
Conflict
Non-Conflict
Not-sure
No Answer Recorded
12)MSNBC s id:2:330137683:6.0:
Underground City Might Have Housed More Than 20,000 turkey team biggest underground city underground city builder turk derinkuyu complex turkey region refuge carved-out cavern site bigger cave complex beneath byzantine-era hilltop castle nearby nevsehir foot meter cappadocia soft volcanic rock well-suited strange formation fairy chimney earth pyrami
Turkish Team May Have Found Biggest Underground City Yet When it comes to hidden underground cities, few people were better builders than the Turks: The Derinkuyu complex in Turkey's Cappadocia regio
O Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

13)MSNBC s id:3:331592510:4.0:

Why covering up is cool: Inside fashion's modesty movement

inside fashion modesty movement change young woman one-piece swimsuit beach loose tunic tank top summertime chunky knit tight sweater winter modesty movement fashion sexy style backseat conservative perfect timing group religious style blogger designer 30-year-old melanie elturk ceo haute hijab vis...

year-old melanie elturk ceo haute hijab vis
Why covering up is cool: Inside fashion's modesty movement Maybe you?ve already noticed the change: Young women in one-piece swimsuits at the beach, loose tunics replacing tank tops in the summertime
Conflict
Non-Conflict
Not-sure
No Answer Recorded
14)MSNBC s id:4:332346832:1.0:
From SingleSaints.com to JSwipe, how faith and dating now meet online religion young single faith relationship singlesaints faith faith app apps website christian mingle jdate ishqr cater specific religious population tinder broad jswipe fast access jewish single website relationship expert coach rachel dealto option daters faith mormon singlesaints ldssingles ldsmin
Religion and online dating: How young singles are finding love within their faiths Relationships From SingleSaints.com to JSwipe, how faith and dating now meet online Looking to date someone of the s
Conflict
Non-Conflict
Not-sure
No Answer Recorded

15)MSNBC s id:5:334805411:1.0:

This Singing Imam Is Not Your Typical Irish Music Star

imam muhammad al-hussaini find ireland sean scene london ireland foreign concept london star scene eyebrow stereotype sean traditional unaccompanied singing style emerald isle sheikh muhammad al-hussaini imam scholar researching extremis coy talent beginner imam gaelic voice festival ireland learni...

Singing Imam: Muhammad Al-Hussaini Finds a Home in Irish Sean Nos Scene LONDON?

While Irish song isn't a foreign concept in London, one new star on the scene has been raising eyebrows while shatteri
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded
16)MSNBC s id:6:334938705:0.0:
New Web Series Pokes Fun at Stereotypes Muslims Face web series halal stereotype muslim web series making typical america sitcom upbeat opening smiling face trouble lip chagrin teenage child theme halal parody stereotype edgy matter ordinary living town monster truck football stanza tune open declares six-minute episode qu osby sends message tone isl
New Web Series 'Halal in the Family' Pokes Fun at Stereotypes Muslims Face A new web series has all the makings of a typical American sitcom: An upbeat opening song paired with smiling faces of a fam Conflict Non-Conflict
Not-sure
No Answer Recorded
17)USA_TODAY h id:11:328499130:100.0:
Yemen bombings part of broader sectarian struggle yemen bomb broader sectarian struggle member houthi milit inspect scene suicide attack al-hashahush mosque sana yemen march photo yahya arhab european press agency washington horrific attack shiite mosque yemen highlight lethal sectarian struggle middle east iran shiite ally rival sunni milit organ
Yemen bombings part of broader sectarian struggle Members of the Houthi militia inspect the scene of a suicide attack targeting the al-Hashahush mosque in Sana?a, Yemen, on March 20, 2015. (Photo: Ya
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

18)USA_TODAY s id:7:328622644:6.0:

Measure to legalize gays' murder may move forward

spring californian petition murder gay sacramento bee report lawyer matt mclaughlin proper paperwork fee initiative sodomite suppression bee san francisco chronicle report attorney general kamala choice signature-gathering phase harris legal previous case freespeech ground petition phase measure q...

speech ground petition phase measure q
At some point this spring, it appears that Californians will be asked to sign a petition legalizing the murder of gay people. And it will be perfectly legit. As the Sacramento Bee reports, a lawyer n
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

19)USA_TODAY h id:12:329123781:100.0:
Yemen is latest in string of victories for Iran yemen latest string victory iran yemen protester slogan alight tire clash protest houthi takeover facility central city taiz yemen march photo ani epa washington violence drove adviser yemen key counterterror partner latest string regional victory iran rebel iran grip portion yemen advanced south
Yemen is latest in string of victories for Iran Yemeni protesters shout slogans and set alight tires during clashes after a protest against the Houthi takeover of several state facilities in the cent
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded
20)USA_TODAY h id:13:330115263:100.0:

Yemen fighting grows into regional conflict

yemen grows regional conflict condition airstrikes iraq government offensive tikrit removal shiite milit fighting general sectarian yemen unfolding civil war regional conflict sunni-led saudi arab shiite power iran saudi-led coalition arab country airstrikes shiite rebel -backed regime president ha...

Yemen fighting grows into regional conflict The United States said that one of the

conditions for conducting airstrikes to support the Iraqi government in its offensive in Tikrit was the removal of S
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

21)USA_TODAY h id:14:330310524:100.0:
Saudi airstrikes in Yemen target rebel stronghold saudi yemen target rebel stronghold shiite rebel houthis weapon saudi-led airstrikes rally sanaa yemen march photo hani ap sanaa yemen ap saudi arab northern stronghold yemen rebel key milit installation coalition gulf kingdom airstrikes strike province eastern area rich oil gas milit action chaoti
Saudi airstrikes in Yemen target rebel stronghold Shiite rebels, known as Houthis, hold up their weapons to protest against Saudi-led airstrikes, during a rally in Sanaa, Yemen, on March 26, 2015. (P Conflict Non-Conflict
O Not-sure
No Answer Recorded
22)USA_TODAY h id:15:331264875:100.0:
Saudi-led air campaign blunts rebel advance in Yemen saudi-led air campaign blunts advance yemen airstrikes rebel group aden washington saudi-led milit coalition advance iran-backed rebel yemen regional coalition naval force country port rebel saudi brig gen asiri airstrikes houthi rebel aden stronghold -backed government power analyst saudi-led air
Saudi-led air campaign blunts rebel advance in Yemen Saudi airstrikes prevent rebel groups from taking Aden WASHINGTON? A Saudi-led military coalition blunted the advance of Iranian-backed rebels in
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

23) NYTIMES h id:16:327004959:100.0:

Op-Ed Contributors: The Kurds? Heroic Stand Against ISIS

erbil iraq islamic control huge syria iraq advance shiite milit iran ally fight islamic kurd 640-mile front islamic advance steadfastness america alliance interest region relationship kurd largest stateless nation sunni town tikrit saddam hussein force iraq iran offensive mosul iraq largest city ar...

ERBIL, Iraq? THE Islamic State continues to control a huge section of Syria. But in Iraq, its
advance has stalled. While Shiite militias and their Iranian allies fight the Islamic State
ferociously
○ Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

24) NYTIMES h id:17:327257837:100.0:

Iran Sent Arms to Iraq to Fight ISIS, U.S. Says

iran arm isil intelligence official tehran credit atta kenare agence france-presse getty iran advanced rocket missile fight islamic tikrit escalation firepower sign iran influence iraq intelligence agency deployment week iraq force troop two-thirds milit iran america official official condition ano...

Iran Sent Arms to Iraq to Fight ISIS, U.S. Says United States intelligence officials say that Fateh-110 missiles, like this one displayed in 2010 in Tehran, were sent to Iraq. Credit Atta Kenare/Agen...

Renare/rigen
Conflict
Non-Conflict
Not-sure
No Answer Recorded

25) NYTIMES s id:8:327272271:0.0:

Lens Blog: Moved by Mountains and the Sea in Indonesia

mountain sea indonesia lens photography video visual journalism reason project men sea trip yogyakarta city java indonesia photography idea project nearby mountain curiosity simple feature connect environment indonesia muslim belief paganism faith personal connection mountain sea zakaria interested...

Moved by Mountains and the Sea in Indonesia Lens: Photography, Video and Visual

Journalism And that is one of the reasons his project ?Men, Mountains and the Sea? has taken this long. The work came o
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded
26)NYTIMES h id:18:327591924:100.0:
Brigade Takes on ISIS Allies in Libya brigade isil ally libya cairo fight islamic control libya city surt brigade neighboring city misurata report tunisia milit battle report sign milit effort islamic group surt month libya month conflict rival coalition milit region ideology vacuum islamic isil isil group fight libya province loyalty
Brigade Takes on ISIS Allies in Libya CAIRO? Fighters aligned with the Islamic State who control the Libyan city of Surt have begun clashing with a brigade from the neighboring cit of Misurata that Conflict
Non-Conflict
Not-sure No Answer Recorded
No Aliswei Recorded
27)NYTIMES h id:19:327607184:100.0:
Op-Ed Columnist: Go Ahead, Ruin My Day human forgive divine add human divine human wish notice outright fact ground laughingstock hope gap wide policy change policy middle east gap iran israel iraq choice country strike ala grandfather father iraq son daughter israel prime minister benjamin netanyahu likud labor leader isaac herzog race
As the saying goes, ?to err is human, to forgive is divine,? to which I?d add: ?to ignore? is even more human, and the results rarely divine. None of us would be human if we didn?t occasionally get s Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

28) NYTIMES h id:20:327703131:100.0:

Afghan First Vice President, an Ex-Warlord, Fumes on the Sidelines

kabul security meeting vice president afghanistan warlord abdul dostum jarring somber national security council dostum mass hundred taliban prisoner roomful powerful president ashraf ghani national security adviser atmar return call gathering week country general advice scene odd transformation dos...

general advice scene odd transformation dos
KABUL, Afghanistan? The security meeting was almost at a close when the first vice president of Afghanistan, the former warlord Abdul Rashid Dostum, began crying. It was jarring ending to the ty
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded
-
29)NYTIMES s id:9:331300682:0.0:
World Briefing: Uzbekistan: President Is Re-elected president islam karimov term landslide preliminary karimov percent vote percent ballot central election commission statement karimov soviet republic opposition organization security cooperation europe election foregone conclusion genuine political alternative karimov president fourth consecutive te
President Islam Karimov has won another term in a landslide, as expected, according to preliminary results issued Monday. Mr. Karimov garnered 91 percent of the vote, with about 91 percent of the bal
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded
-
30)NYTIMES s id:10:331527663:8.0:

15 Bodies Pulled From Home Hit by Landslide in Northern India

delhi rescue worker body hit landslide torrential rain india-administered jammu kashmir north official landslide cluster house budgam district dead heavy rain widespread flooding northern india jhelum river dangerous level water street srinagar capital water worker resident area official body famil...

NEW DELHI? Rescue workers have recovered 15 bodies from a house that collapsed after

a

being hit by a landslide caused by torrential rains in the Indian-administered state of Jammu and Kashmir in the
Conflict
Non-Conflict
O Not-sure
No Answer Recorded
31)NYTIMES s id:11:332850791:0.0:
Op-Ed Columnist: Interview With a Christian debate religious freedom unfold interview imaginary representative member press conversation easter semi-reasonable christian terrible indiaa religious liberty bill original version experience law protect minority burden indiaa law vendor same-sex wedding protection business comer service reason re
AFTER watching the debate about religious freedom unfold over the past week, I decided to subject myself to an interview by an imaginary? but representative? member of the press. Here is our conver Conflict
Non-Conflict
Not-sure
No Answer Recorded
32)NYTIMES s id:12:333121315:0.0:
Shilpa Patel and Miten Shah shilpa patel ketan shah parsippany pandit harendra dave hindu priest hilton parsippany rutgers bride degree public health psychology groom political science genetics master social study education bride program manager center study asian america health nyu langone medical center master public health
Shilpa Patel and Miten Ketan Shah were married Saturday in Parsippany, N.J. Pandit Harendra R. Dave, a Hindu priest, officiated at the Hilton Parsippany. The couple, both 33, graduated from Rutgers, Conflict
Non-Conflict
O Not-sure
No Answer Recorded

33) NYTIMES s id:13:333795238:1.0:

C.J. Wilson Throws 8 Sharp Inning, Angels Beat Mariners 2-0

baseball wilson sharp inning angel mariner wilson sharp inning angel mariner seattle wilson hit inning freese offense two-run homer los angel win seattle mariner wilson outstanding wriggling second-inning jam final batter left-hander baserunners strikeout seattle nelson cruz rickie week hit mariner...

outstanding wriggling second-inning jam final batter left-hander baserunners strikeout seattle nelson cruz rickie week hit mariner
Baseball C.J. Wilson Throws 8 Sharp Inning, Angels Beat Mariners 2-0 C.J. Wilson Throws 8 Sharp Inning, Angels Beat Mariners 2-0 SEATTLE? C.J. Wilson allowed two hits over eight innings and David
Conflict
Non-Conflict
O Not-sure
No Answer Recorded
34)WP h id:21:328019729:100.0:
<u>Tunisia promises ?merciless war? against terrorism</u> tunisia merciless war terror tunis tunisia president country merciless war terror gunman foreign tourist tunisia daylight attack tunisia museum assault stability lone country arab spring success global condemnation world-famous national bardo museum tunis tunisia prime minister habib gunman attack
Tunisia promises ?merciless war? against terrorism TUNIS, Tunisia ? Tunisia?s president vowed Thursday to expand the country?s ?merciless war against terrorism? after gunmen killed at least 18 foreig
Conflict
Non-Conflict
O Not-sure
No Answer Recorded
35)WP h id:22:328313553:100.0:

WorldViews: Petraeus: The Islamic State isn?t our biggest problem in Iraq

petraeus islamic biggest problem iraq january file photo cia director petraeus testifies intelligence committee committee hearing wide threat capitol hill washington dc karen bleier afp getty general david troop surge iraq annual sulaimani forum get-together iraq leader thinker academic america uni...

Petraeus: The Islamic State isn?t our biggest problem in Iraq In this January 31, 2012 file

photo, CIA Director David Petraeus, testifies before the US Senate Intelligence Committee during a full com
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded
36)WP h id:23:328353441:100.0:
Israel?s threat from within israel appearance cbs nation israel minister benjamin netanyahu white column prediction iran nuclear program netanyahu supreme leader ayatollah khamenei tweet way reason israel netanyahu attention threat reason clear iran supreme leader radical anti-western ideologue twitter hostility israel harm c
Israel?s threat from within In an appearance on CBS News?s? Face the Nation? soon before he was reelected as Israel?s prime minister, Benjamin Netanyahu was asked if he was offended that the White Conflict
Non-Conflict
O Not-sure
No Answer Recorded

37)WP h id:24:328380276:100.0:
Security bolstered across Tunisia as rallies decry reach of terrorism security tunisia rally reach terror tunis tunisia authority security vital installation country fear follow-up attack museum massacre islamic gunman security force site main mediterranean port capital headquarters radio threat broadcaster interior ministry spokesman police aware specific threat rad
Security bolstered across Tunisia as rallies decry reach of terrorism TUNIS? Tunisian authorities bolstered security at vital installations across the country Friday amid fears of follow-up attacks
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

38)WP h id:25:328491452:100.0:

After Netanyahu win, Palestinians vow to press case in international arena

netanyahu win palestine press case international arena ramallah west bank reelection israel prime minister benjamin netanyahu palestine leader move embarrass prosecute

israel international arena risky disengagement decades-old security cooperation israel west bank palestine official spent israel co
After Netanyahu win, Palestinians vow to press case in international arena RAMALLAH, West Bank? Following the reelection of Israeli Prime Minister Benjamin Netanyahu, Palestinian leaders say they wi Conflict
Non-Conflict
Not-sure
No Answer Recorded
39)WP s id:14:332234122:0.0:
Chart: There will be almost as many Muslims as Christians in the world by 2050 chart muslim christian study pew center population major religion decade finding islam fastest religion global population muslim christian chart project major undertaking pew comprehensive demographic analysis thousand data set census population register lead researcher conrad hackett tremendous am
Chart: There will be almost as many Muslims as Christians in the world by 2050 A new study released Thursday by the Pew Research Center projected the populations of the world's major religions over t
Conflict
Non-Conflict
O Not-sure

No Answer Recorded

40)WP s id:15:335307759:5.0:

Paris set to bid on 2024 Olympics

paris bid olympics miguel medina afp getty city hosting future olympics massive cost return official paris step bidding game city council resolution endeavor prospective bid federal government press formal intention international olympic committee sept paris game unsuccessful bid olympics city bid ...

Paris set to bid on 2024 Olympics (Miguel Medina/AFP/Getty Images) While many other

cities have balked at hosting future Olympics, citing massive costs and limited returns, officials in Paris announc
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded
41)DAWN_PK s id:16:327118924:0.0:
PTI to hold 'election rigging' rally in Lahore pti election rigging lahore lahore pakistan pti protest rally lahore general election dawnnews detail stage protest rally tribunal decision pti chairman imran muslim ayaz sadiq public government judicial commission election protest movement lahore sit-in staged parliament islamabad zone spokesperso
PTI to hold 'election rigging' rally in Lahore. LAHORE: Pakistan Tehreek-i-Insaf (PTI) will soon hold a protest rally in Lahore against rigging in the 2013 general election, DawnNews reported on Mond Conflict
O Non-Conflict
O Not-sure
No Answer Recorded
42)DAWN_PK h id:26:327327277:100.0:
Israelis vote in tight race after last-ditch Netanyahu plea jerusalem israel election close-fought battle centre prime minister benjamin netanyahu palestine last-ditch appeal outcome race opinion netanyahu fewer seat centre-left zionist union determine prospect middle east peace talk israel relation voter eligible election israel member parliament poll pm g
JERUSALEM: Israelis voted Tuesday in an election expected to be a close-fought battle between the centre left and Prime Minister Benjamin Netanyahu, who ruled out a Palestinian state in a last-ditch Conflict Non-Conflict Not-sure
Not-sure No Answer Recorded
w No Allower Recorded

43)DAWN_PK s id:17:327917517:4.0:

Elected from Islamabad, Senator Rahila returns to Sindh

islamabad senator rahila return hyderabad pakistan muslim league-nawaz senator dr rahila magsi upper parliament islamabad nomination paper sindh ruler president ali zardari senate campaign support sugar cane grower reporter tando allahyar press club worker jamshoro toll plaza karachi member upper m...

worker jamshoro toll plaza karachi member upper m
Elected from Islamabad, Senator Rahila returns to Sindh. HYDERABAD: Pakistan Muslim League-Nawaz Senator Dr Rahila Magsi ? who has recently been elected to the upper house of parliament from Islamaba Conflict Non-Conflict Not-sure No Answer Recorded
44)DAWN_PK s id:18:328434684:0.0:
Govt agrees on judicial commission to probe election rigging govt judicial commission election islamabad pakistan muslim league nawaz pml-n form long-awaited judicial commission pakistan tehreek-i-insaf pti request irregularity general election joint press conference leader party consensus term reference discussion numerous month finance minister ishaq dar p
Govt agrees on judicial commission to probe election rigging. ISLAMABAD: Pakistan Muslim League Nawaz (PML-N) agreed to form the long-awaited judicial commission? on Pakistan Tehreek-i-Insaf?s (PTI)
Conflict
Non-Conflict
Not-sure
No Answer Recorded
45)DAWN_PK s id:19:328746569:1.0:

ANP, JUI-F assail govt-PTI deal

anp jui-f assail govt-pti deal finance minister ishaq dar contact leader party confidence agreement government pti formation judicial commission alleged poll anp jui-f reservation development finance ministry announcement dar spoke leader political party leader ppp muttahida qaumi movement mgm jama...

ANP, JUI-F assail govt-PTI deal. ISLAMABAD: As Finance Minister Ishaq Dar initiated

contacts with leaders of various parties on Saturday to take them into confidence over the agreement between the go
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded
46)DAWN_PK s id:20:329491180:7.0:
PA committee to probe illegal appointments case pa committee illegal appointment case peshawar khyber pakhtunkhwa matter alleged illegal appointment previous government pakhtunkhwa energy development organisation relevant concern probe pti mpa yaseen khalil matter relevant committee investigation question speaker asad qaisar announcement questio
PA committee to probe illegal appointments case. PESHAWAR: The Khyber Pakhtunkhwa Assembly on Tuesday referred the matter of the alleged illegal appointments by the previous government to the Pakhtun Conflict Non-Conflict
O Not-sure
No Answer Recorded

47)DAWN_PK s id:21:329515960:0.0:
Permission from earlier wives not required for new marriage: Sherani permission earlier wife marriage sherani islamabad gap month chairman council islamic ideology cii maulana mohammad sherani talked-about topic marriage divorce woman reporter cci meeting maulana sherani men permission wife previous wife marriage anarchy discontent garb woman right consecutive decla
Permission from earlier wives not required for new marriage: Sherani. ISLAMABAD: After a gap of few months the chairman of Council of Islamic Ideology (CII), Maulana Mohammad Khan Sherani, has spoken
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

48) DAWN PK h id:27:329866510:100.0:

Pakistan examining Saudi request to join anti-Houthi operation in Yemen: FO

islamabad pakistan saudi arab gulf-led operation shia houthi rebel yemen foreign office spokesperson tasneem aslam reporter weekly medium islamabad saudi arab pakistan emergency basis invitation operation houthi rebel yemen detail request saudi matter aslam pakistan mission yemen alert touch pakist...

ISLAMABAD: Pakistan said on Thursday it was examining Saudi Arabia's request to join the
Gulf-led operation against Shia Houthi rebels in Yemen. Foreign Office spokesperson
Tasneem Aslam told reporte
Conflict
O Non-Conflict
O Not-sure
● No Answer Recorded

49)DAWN_PK h id:28:329866515:100.0:

Saudi Arabia, allies launch air strikes against Houthis in Yemen

washington saudi arab muslim country egypt pakistan gulf-led milit coalition shia houthi rebel yemen jordan morocco sudan desire operation rebel kingdom firmness storm saudi spa agency saudi arab gulf bahrain kuwait qatar united arab emirate earlier decision president hadi yemen aggression shia hou...

WASHINGTON: Saudi Arabia said Thursday that five Muslim countries including Egypt and Pakistan want to participate in the Gulf-led military coalition against Shia Houthi rebels in Yemen. Together wit...

	S
\bigcirc	Conflict
\odot	Non-Conflict
\odot	Not-sure
$oldsymbol{oldsymbol{\odot}}$	No Answer Recorded

50) DAWN PK h id:29:329866573:100.0:

IS sending advance guards to region: Ghani

advance guard region ghani washington president ashraf ghani so-called islamic milit advance guard pak-afghanistan region ass vulnerability address ghani america public milit sacrifice country terror movement goal region base operation troop afghanistan obama afghanistan frontline terror boundary p...

IS sending advance guards to region: Ghani. WASHINGTON: Afghan President Ashraf Ghani

said on Wednesday that the so-called Islamic State militants were sending advance guards to the Pak-Afghan region
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded
51)DAWN_PK h id:30:329898888:100.0:
Iran condemns Saudi strikes in Yemen as 'dangerous step' tehran iran regional rival saudi arab launching air huthi rebel yemen dangerous step international responsibility national sovereignty foreign ministry spokeswoman marzieh afkham milit action situation spread crisil opportunity peaceful resolution yemen internal difference aggression result terror
TEHRAN: Iran condemned regional rival Saudi Arabia on Thursday for launching air strikes on Huthi rebels in Yemen, saying it was ?a dangerous step? that violated ?international responsibilities and n Conflict Non-Conflict Not-sure
No Answer Recorded
52)REUTERS h id:31:327068449:100.0:
Iraq needs more air strikes to dislodge IS in Tikrit: officials iraq air strike tikrit official maggie fick chlorine-tinged cloud smoke rise air bomb iraqarmhi ite fight hashid shaabi force town al-alam salahuddin province march credit thailander al-sudani baghdad iraq tikrit offensive senior official air strike islamic milit explosive saddam hussein city centr
Iraq needs more air strikes to dislodge IS in Tikrit: officials By Maggie Fick A chlorine-tinged cloud of smoke rises into the air from a bomb detonated by Iraqi army and Shi'ite fighters from Hashid
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

53) REUTERS h id:32:327171803:100.0:

U.N. concerned by Islamic State's ability to unite Afghan insurgents

islamic ability insurgent nicholas listens question conference kabul august credit sobhani nation nation presence islamic afghanistan milit group power insurgent capability wartorn country top official envoy nicholas security council afghanistan attempt broker conflict taliban -led war foreign for...

conflict taliban -led war foreign for
U.N. concerned by Islamic State's ability to unite Afghan insurgents Nicholas Haysom listens to a question during a news conference in Kabul August 8, 2012. Credit: Reuters/Omar Sobhani UNITED NATION Conflict Non-Conflict Not-sure No Answer Recorded
54)REUTERS h id:33:327445449:100.0:
Tunisia dismantles jihadi recruiting cell for Libya tunisia dismantles cell libya tunisia recruiting cell jihad fight libya dozen tighter security border control islamist milit violence libya islamic milit influence turmoil rival government control tunisia largest contingent foreign fight syria iraq jihad conflict tunisia north africa neighbor
Tunisia dismantles jihadi recruiting cell for Libya TUNIS (Reuters) - Tunisia said on Tuesday it had dismantled a recruiting cell sending jihadis to fight in Libya and arrested dozens in part of tigh Conflict
Non-Conflict
Non-Conflict Not-sure
No Answer Recorded
No Answer Recorded
55)REUTERS h id:34:327733838:100.0:

Downing of U.S. drone suggests Syria imposing red lines on air war

drone syria line air war beirut allowing air space islamic fight month syriaarmhooting drone territory critical milit contact drone northwest syria incident latakia province western region syria damascus control syriaarmource aircraft government-held territory area islamic jihadt group daily bombar...

Downing of U.S. drone suggests Syria imposing red lines on air war BEIRUT (Reuters) -

After allowing the United States to use its air space to bomb Islamic State fighters for six months, the Syrian a
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded
-
56)REUTERS h id:35:327900628:100.0:
Gunmen storm Tunisian museum, kill 17 foreign tourists gunman tunisia museum kill foreign tourist tarek amara argoubi tunis mar edt tunis gunman milit uniform tunisia national museum foreign tourist tunisia worst milit attack country region arab spring turmoil japan visitor spain dead noon assault bardo museum inside heavily parliament compound central
Gunmen storm Tunisian museum, kill 17 foreign tourists By Tarek Amara and Mohamed Argoubi TUNIS Wed Mar 18, 2015 8:53pm EDT TUNIS (Reuters) - Gunmen wearing military uniforms stormed Tunisia's nation
Conflict
Non-Conflict
O Not-sure
No Answer Recorded
57)REUTERS s id:22:327980872:0.0:
Dutch ruling parties pledge to continue despite Senate loss holland ruling party senate loss thomas netherlands prime minister mark rutte gesture europe twin challenge growth stability event switzerland mountain resort davos january amsterdam leader holland ruling coalition government provincial election majority country senate local ballot determines compo
Dutch ruling parties pledge to continue despite Senate loss By Thomas Escritt Netherlands' Prime Minister Mark Rutte gestures during the Europe's Twin Challenges: Growth and Stability event in the Sw
O Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

58) REUTERS s id:23:328903864:4.0:

Local bill on Muslim tribunal in Texas stirs sentiments

irving bill foreign law court stir local islamic tribunal resolving civil city council irving texas bill muslim islamic tribunal bill foreign law case sharia law court law case soundbite england mayor beth van duyne brainier resolution constitution constitution straight forward constitutional issue...

forward constitutional issue
An Irving, Texas bill that says foreign law does not apply to U.S. courts stirs sentiment surrounding a local Islamic tribunal aimed at resolving civil disputes. A city council in Irving, Texas, has
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

59)REUTERS s id:24:330643418:4.0:
Cosby show brings out protesters in Baltimore protester cosby goer baltimore bill cosby stage baltimore comedy 77-year-old protester crowd standup routine demonstrator veteran comedian dozen woman soundbite katherine bruce cosby protester mouth soundbite rachel perry-cook cosby protester reflects woman teenager sunni welles accuser bill cosby
Protesters turn out to shame Cosby show goers in Baltimore. Bill Cosby takes the stage in Baltimore for his comedy show. The 77-year-old was heckled by several protesters in the crowd during his stan
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded
60)FOX_NEWS h id:36:326855291:100.0:

American intelligence analysts disagree about impact of airstrikes on al-Qaida cell in Syria america intelligence analyst impact airstrikes al-qaeda cell syria file sept file photoarmgen william mayville jr director operation operation syria conference pentagon milit separate target al-qaeda cell syria khorasan group official ongoing little-discussed air campaign disrupting group capacity ...

American intelligence analysts disagree about impact of airstrikes on al-Qaida cell in Syria

FILE - In this Sept. 23, 2014, file photo, Army Lt. Gen. William Mayville, Jr., Director of Operations J-3
Conflict
Non-Conflict
O Not-sure
No Answer Recorded
61)FOX_NEWS s id:25:326878520:2.0:
NYC's plan to allow prayer breaks in pre-kindergarten classes raises church-state concerns nyc plan prayer break pre-kindergarten class church-state concern joey michael skaba rooftop playground sonny gindi barkai yeshivah brooklyn march jajati michael skaba rooftop playground sonny gindi barkai yeshivah brooklyn march elyse dweck joey raise pre-kindergarten sonny gindi barkai yeshivah b
NYC's plan to allow prayer breaks in pre-kindergarten classes raises church-state concerns Joey Arking, 5, left, Moshe Lib, 4, second from left, Michael Skaba, 4, second from right and Leo Jajati, 4, Conflict
Non-Conflict
Not-sure
No Answer Recorded
62)FOX_NEWS h id:37:327086950:99.0:
March Madness discussions? so much more fun to talk and think about than Iran and nuclear weapons, right?
pic scene otr interview senator lee senator marco rubio video step elevator nightmare vietnam march madness discussion iran nuclear weapon samaritan short heart determination click pic sudan pic pic tank evil president bashir milit nuba innocent campaign manager america israel pm netanyahu south af
PICS: Behind the Scenes of OTR?s interview with Senator Mike Lee and Senator Marco Rubio VIDEO: Walking up remaining steps after getting elevator nightmare in Vietnam March Madness discussions? so m Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

US, Iran working for nuclear pact; officials suggest a lesser announcement possible secretary john kerry break bilateral meeting iran foreign minister mohammad javad iran nuclear program lausanne switzerland march united iran negotiation effort decades-long standoff specter iran nuclear arsenal atomic arm race middle east israel milit intervention ap keystone jean-christophe bott ...

U.S. Secretary of State John Kerry takes a break during a bilateral meeting with Iranian

U.S. Secretary of State John Kerry takes a break during a bilateral meeting with Iranian
Foreign Minister Mohammad Javad Zarif over Iran's nuclear program in Lausanne,
Switzerland, Monday, March 16,
○ Conflict
Non-Conflict
O Not-sure
No Answer Recorded
64)FOX_NEWS h id:39:327109231:100.0:

Kurds probe 2 possible ISIS chemical weapon attacks

63) FOX NEWS h id:38:327109217:100.0:

march young volunteer militman battlefield islamic fight tikrit mile north baghdad iraq kurdish force iraq isil chemical weapon attack top official authority iraq offensive saddam hussein irbil iraq kurdish force iraq chemical weapon attack islamic group top official authority iraq offensive saddam...

March 15, 2015 - A young volunteer militiaman on his way to the battlefield against Islamic State fighters in Tikrit, 80 miles north of Baghdad, Iraq. Kurdish forces in Iraq are investigating 2 other...

Conflict
Non-Conflict
Not-sure
No Answer Recorded

65)FOX_NEWS s id:26:327296488:0.0:

Myanmar court jails New Zealand man for 2 years and 6 months for insulting Buddhism myanmar court jail zealand month insulting buddhism yangon myanmar myanmar court zealand bar manager business month prison buddhism flyer psychedelic depiction buddha headphone blackwood tun thurein htut ko ko lwin labor insulting religion month disobeying order public servant trial gastro manager ...

Myanmar court jails New Zealand man for 2 years and 6 months for insulting Buddhism YANGON, Myanmar? A Myanmar court has sentenced a New Zealand bar manager and his business associates to two years
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

66)FOX_NEWS h id:40:327489007:100.0:
Air Force vet charged with trying to join ISIS force vet isil america citizen force veteran airplane mechanic weapon system isil federal prosecutor tairod webster asbury park jan plan black-clad jihadtarmauthority count material support foreign terror organization obstruction justice attorney loretta lynch release born country travel order terr
Air Force vet charged with trying to join ISIS An American citizen and U.S. Air Force veteran who worked as an airplane mechanic and was trained in weapons systems was charged Tuesday with trying to
Conflict
Non-Conflict
O Not-sure
No Answer Recorded

67)FOX_NEWS s id:27:327545407:5.0:
Stunning meteor photo incredible bright tail meteor clear sky scotland ness absolute fluke alasdair macdonald tour guide scotland highland rare shot wife sheer dumb luck complete fluke absolute fluke macdonald offer private highland tour business hebridean explorer business facebook social medium round evangelical chris
It?s an incredible image? the bright tail of a meteor streaking across the clear night sky above Scotland?s Loch Ness. The image, which has been trending online, was an ?absolute fluke,? according t Conflict
Non-Conflict
Not-sure
No Answer Recorded

Muslim groups rip Jeb Bush for consultant's anti-Shariah views muslim group jeb bush consultant anti-shariah view florida governor jeb bush talk medium integra bioscience campaign hudson hampshire march stapleton tag health science technology politics election rtr4tako coalition national muslim organization press release jeb bush campaign-in-waiting senior con
Muslim groups rip Jeb Bush for consultant's anti-Shariah views Former Florida Governor Jeb Bush talks to the media after visiting Integra Biosciences during a campaign stop in Hudson, New Hampshire M
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

69)FOX_NEWS s id:29:329735777:3.0:
Ohio officer fined \$500 after being convicted of misdemeanor K-9's heatstroke death ohio officer misdemeanor heatstroke death medina ohio municipal court judge northeast ohio police officer fine finding guilty animal cruelty allowing police dog heatstroke cruiser bench trial montville township police sgt brett harrison guilty count companion animal cruelty guilty count harrison gu
Ohio officer fined \$500 after being convicted of misdemeanor K-9's heatstroke death MEDINA, Ohio ? A municipal court judge has ordered a northeast Ohio police officer to pay a \$500 fine after finding Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

70)FOX_NEWS s id:30:330191027:0.0:
Police say 10 people killed, dozens injured in a stampede at Hindu festival in Bangladesh police dozen stampede hindu festival bangladesh dhaka bangladesh dozen injured stampede hindu religious gathering bangladesh police local police chief mazrul islam accident langalbandh hindu pilgrimage spot bank brahmaputra river kilometer mile southeast capital dhaka annual religious bathing ritua

68)FOX_NEWS s id:28:329629022:0.0:

Police say 10 people killed, dozens injured in a stampede at Hindu festival in Bangladesh DHAKA, Bangladesh ? At least 10 people were killed and dozens more injured Friday in a stampede during a Hind
○ Conflict
O Non-Conflict
O Not-sure
No Answer Recorded
71)THE_NEWS_PK h id:41:326982669:100.0:
Is ISIS knocking on Karachis doors? sectarian fissure ethno-political polarisation karachi middle east-based jihadt group islamic iraq syria isil network city worsen security analyst police official january isil daish daulat-e-islamia pakistan taliban commander leader pakistan afghanistan hafiz chief tehreek-e-taliban pakistan taliba
Exploiting the sectarian fissures and ethno-political polarisation in Karachi, the Middle East-based jihadist group the Islamic State of Iraq and Syria (ISIS) may organise its network in the city and
Conflict
Non-Conflict
Not-sure No Answer Recorded
No Allswer Recorded
72)THE_NEWS_PK s id:31:327023737:1.0:
TOBA TEK SINGH City News arrest prayer leader sic strike faisalabad 18th toba tek singh sunni council chairman sahibzada raza strike faisalabad march arrest sunni ulema province press conference meeting sunni religious organisation score prayer leader case charge loudspeaker amplifier arrest protest province roof cave roof
Arrest of prayer leaders SIC to observe strike in Faisalabad on 18th TOBA TEK SINGH: Sunni Ittehad Council chairman Sahibzada Hamid Raza has said that a strike will be observed in Faisalabad on March Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

73)THE_NEWS_PK s id:32:327038787:0.0:

ICU syndicates decision on appointment triggers concern

yousaf ali peshawar selection board islamia college university person post verification panel interview syndicate approval exercise doubtful concern candidate case board position selection board september lapse selection board vice-chancellor prof dr qibla ayaz panel interview candidate recommendat...

panel interview candidate recommendat
Yousaf Ali PESHAWAR: Though the selection board of Islamia College University had okayed 42 persons for various posts after verification and panel interviews, the syndicate gave approval to around ha
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

74)THE_NEWS_PK s id:33:327049321:3.0:
Anti-polio campaign from today anti-polio campaign three-day polio eradication campaign province health department team child age handout adviser chief minister health khawaja salman rafiq press statement health team three-day campaign mobile team polio vaccine child team entry exit point province permanent transit point termina
Anti-polio campaign from today A three-day polio eradication campaign is starting in the province from today (Monday), during which Health Department teams will vaccinate 18.5 million children up to
○ Conflict
O Non-Conflict
O Not-sure
No Answer Recorded
75)THE_NEWS_PK h id:42:327257345:100.0:

So what else should Christians do?

islamabad diary home gojra provincial sarkar joseph colony lahore trumped-up pretence usual blasphemy tool passion mob government christian wife labourer brick kiln burning oven police christian church suicide attack lahore dead score road public property suspect guilt basis mob hearsay fire govern...

Islamabad diary When their homes were ransacked in Gojra, where was the provincial sarkar? When Joseph Colony in Lahore was ransacked on patently trumped-up pretences? the usual blasphemy tool emplo
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded
76)THE_NEWS_PK s id:34:327495526:0.0:
Oath-taking ceremony of studentc ouncil held at Viqar-un-Nisa College oath-taking ceremony academic government viqar-un-nisa postgraduate college chief guest occasion abbasi aurangzeb mpa director college rawalpindi professor hamayun iqbal ceremony principal professor dr saira mufti oath member student council ex-members student council responsibility newly-elected m
The oath-taking ceremony for the academic year 2015 was held here on Monday at Government Viqar-un-Nisa Postgraduate College. The chief guest on the occasion were Hanif Abbasi and Mrs. Tahira Aurangz Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

77)THE_NEWS_PK s id:35:327579425:1.0:
Renovated orthopaedic department inaugurated at BBH orthopaedic department benazir hospital bbh simple ceremony renovation building fund bait-ul-mal director rawalpindi medical college principal professor dr muhammad umar chairman board management hospital muhammad aslam pakistan muslim league nawaz leader dr jamal nasir philanthropist sheikh ceremo
The orthopaedic department was inaugurated at Benazir Bhutto Hospital (BBH) here on Tuesday in a simple ceremony after necessary renovation work on the building carried out through funds personally d Conflict
Non-Conflict
Not-sure
No Answer Recorded

Into the maze of global conflict view riyadh saudi mission syria awry isil force saudi obsession isil turn hold saudi crosshairs saud brand salafi islam heretical isil threat saudi north iraq isil large swathe saudi dominance salafi islam threat closer case shia bahrain eastern saudi arab shia crescent levant yemen reality riposte... The view from Riyadh. The Saudi mission to topple Syria?s Assad has gone awry? instead

Isis is now a force to reckon with, and is the new Saudi obsession. Isis, in turn, holds the Saudis in its cros...

Conflict

Non-Conflict

Not-sure

No Answer Recorded

79)THE_NEWS_PK s id:36:327578522:4.0:

Eight injured in road accident

78)THE_NEWS_PK h id:43:327579370:100.0:

injury van canal sundar police limit rescue team spot van lahore accident islam nagar stable condition wheelie city traffic police notice wheelie doer officer heavy bike wheelie handout chief traffic police officer cto tayyab hafiz cheema traffic police resource youth wheelie worth mentioning traff...

Eight people received injuries when a van fell into a canal near Sundar police limits on Tuesday. Rescue teams reached the spot and rescued the injured. A van was heading to Pattoki from Lahore when ...

Conflict
Non-Conflict
Not-sure
No Answer Recorded

80)THE_NEWS_PK h id:44:327989606:100.0:

Only Moscow can stop it

war russia choice department hadn coup ukraine president viktor yanukovych russia eu vital trade route nation continent economic integration asia europe plan high-speed rail china silk road eu clear danger share global gdp significance economy rival eu-russia equivalent towel future gradual persist...

The United States does not want a war with Russia, it simply feels that it has no choice. If the State Department hadn?t initiated a coup in Ukraine to topple the elected president, Viktor Yanukovych
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded
81)THE_NEWS_PK h id:45:328438370:100.0:
Spring cleaning
march mark gloomy anniversary 12th anniversary invasion iraq 5th anniversary nato intervention libya overthrew arab dictator local horrific strait nostalgia saddam hussein muammar qaddafi iraq dozen codepink colleague month invasion country draconian western sanction saddam hussein middle country w
March 19 marks two gloomy anniversaries: the 12th anniversary of the US invasion of Iraq and the 5th anniversary of the Nato intervention in Libya. Both overthrew Arab dictators; both left the local
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded
82)GUARDIAN_UK s id:37:326910180:0.0:
Circular thinking: Stonehenge's origin is subject to new theory circular stonehenge subject theory wiltshire monument equivalent ancient mecca stilt forward museum director julian druid temple astronomical calendar centre healing mystery stonehenge source speculation debate dramatic theory prehistoric monument ancient mecca stilt megalith ceremony ground level
Circular thinking: Stonehenge's origin is subject to new theory. Wiltshire monument may have been equivalent of ?an ancient Mecca on stilts? according to an idea put forward by former museum director Conflict
Non-Conflict
Not-sure
No Answer Recorded

Fashion blogger Dina Torkia: ?There?s a fear factor around the hijab? fashion blogger dina torkia fear factor hijab hijabi blogger dina tokio centre liberty bbc beauty pageant muslim woman zoella way torkia typical fashion blogger 25-year-old doll trend urban backdrop usual smattering self-promotion clothing range torkia blog tokio requisite social medium stats follo
Fashion blogger Dina Torkia: ?There?s a fear factor around the hijab?.Hijabi blogger ?Dina Tokio? started blogging while working in a call centre. Now she?s collaborating with Liberty and reporting f
Conflict
Non-Conflict
Not-sure
No Answer Recorded
84)GUARDIAN_UK s id:39:327258534:3.0:
Don't say I'm oppressed because I'm an Arab woman. It denies me the right to my own experience arab woman experience generalisation dog whistle politics arab muslim woman vulnerable absolute generalisation binary rhetoric dog whistle politics team australia arab muslim muslim arab muslim arab terror terror arab woman subservient men arab muslim girl marriage stereotype public discourse decad
Don't say I'm oppressed because I'm an Arab woman. It denies me the right to my own experience. We?re living in a time of generalisations and dog whistle politics. But stereotyping Arab and Muslim wo
Conflict
Non-Conflict
O Not-sure
No Answer Recorded
85)GUARDIAN_UK s id:40:327714035:0.0:

83)GUARDIAN_UK s id:38:327190618:2.0:

act assassin richard beard review passion police procedural combine startling challenging hapless gumshoe fate jesus disciple christianity unusual religion way late century theologian christian christ single telling century canonical account account fewer life evangelist emphasis non-canonical acco...

Acts of the Assassins by Richard Beard review? the Passion as police procedural

Acts of the Assassins by Richard Beard review? the Passion as police procedural. Past and present combine to startling effect in this challenging novel, in which a hapless gumshoe tries to unravel t
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

86)GUARDIAN_UK h id:46:327746734:100.0:
Tunisia terror attack: eight dead after gunmen storm museum - live tunisia terror attack dead gunman storm museum tunisia foreign ministry foreigner tunisia attack bardo museum adjacent parliament building tunis gmt member security raid gunman officer security museum attack tunisia interior ministry ap gmt hostage tunisia force report official gmt al-jazeera inter
Tunisia terror attack: eight dead after gunmen storm museum - live. Tunisian foreign ministry confirms seven foreigners and one Tunisian have been killed in an attack at the Bardo museum, adjacent to Conflict
O Non-Conflict
Not-sure
No Answer Recorded
87)GUARDIAN_UK h id:47:327760872:100.0:
Binyamin Netanyahu victory causes international concern binyamin victory international concern binyamin netanyahu victory israel general election dismay nail coffin hope two-state solution israel-palestine conflict netanyahu eve-of-poll pledge creation independent palestine alongside israel arab citizen drove manipulative implacable israel election biny
Binyamin Netanyahu victory causes international concern Binyamin Netanyahu?s sweeping victory in Israel?s general election is causing dismay internationally because it appears to be another nail in t Conflict
Non-Conflict
Not-sure
No Answer Recorded

88)GUARDIAN_UK s id:41:328026120:1.0:

Religion and money: is Islamic banking the way forward for Ethiopians?

religion islamic banking forward ethiopia lack physical bank community access financial service ethical issue largest religion follower population muslim poverty islamic-compliant finance huge industry international talk access financial service country service islamiccompliant top agenda islamic-...

Religion and money: is Islamic banking the way forward for Ethiopians?. What happens when it?s not just a lack of physical banks preventing communities? access to financial services, but ethical issu
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

89) GUARDIAN UK s id: 42: 328097463: 1.0:

The Tale of the Princess Kaguya is a joy but won't hold kids' attention

tale princess kaguya joy kid attention tale princess kaguya tumultuous emotional journey attention-grabbing film hero tale princess kaguya latest release japan best-loved animation studio studio ghibli critical acclaim film festival circuit academy award kid doubt matinee screening fidgety throng b...

The Tale of the Princess Kaguya is a joy but won't hold kids' attention. The Tale of the Princess Kaguya is a ?tumultuous emotional journey? yet will struggle to compete with attention-grabbing films...

	O	U
\odot	Conflict	
\odot	Non-Conflict	
\odot	Not-sure	
ullet	No Answer Re	corded

90)GUARDIAN_UK h id:48:328139175:100.0:

Create UN force to protect ancient heritage from Isis, says Italy

create force ancient heritage isil culture minister creation force heritage site destruction ancient city iraq islamic isil milit sort blue helmet culture blue helmet intervene situation war dario franceschini referring signature uniform troop international rapid response force monument archaeologi...

Create UN force to protect ancient heritage from Isis, says Italy Italy?s culture minister has called for the creation of a UN peacekeeping force to protect the world?s heritage sites, following the
Conflict
O Non-Conflict
O Not-sure
No Answer Recorded

91)GUARDIAN_UK h id:49:328342745:100.0:
Tunis gunmen trained with Libyan militia, says security chief tunis libya milit security chief gunman attack foreign tourist tunis museum training milit camp libya tunisia secretary security country december libya weapon rafik private hiwar ettounsi television channel gunman security force official yassine laabidi hatem khachnaoui laabidi detail view kill tun
Tunis gunmen trained with Libyan militia, says security chief The two gunmen who killed 21 people in an attack on foreign tourists at a Tunis museum had received training at a militia camp in Libya, Conflict
Non-Conflict
O Not-sure
No Answer Recorded
92)GUARDIAN_UK h id:50:328373389:100.0:
Drones aren?t just toys that cause a nuisance. They?re still killing innocent people drone nuisance innocent drone aircraft industry calling nature coverage normalisation milit drone medium interest interested writing toy drone white lawn white drone assassination arrest amateur pilot drone parliament britain drone syria assurance defence secretary michael fallon mission creep atte
Drones aren?t just toys that cause a nuisance. They?re still killing innocent people F or anyone concerned about the use of drones, or remotely piloted aircraft as the industry insists on calling the
Conflict
Non-Conflict
Not-sure
No Answer Recorded

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93)TIMES_OF_INDIA s id:43:326868986:0.0:

Subramanian Swamy defends mosque 'not a religious place' remark

mosque religious subramanian mosque religious subramanian swamy bjp leader subramanian swamy massive contr subramanian swamy tharoor conspiracy subramanian swamy shashi tharoor probe tharoor mehr tarar angle subramanian swamy cop janata bjp leader subramanian swamy challe shashi tharoor sunanda pus...

Mosque is not a religious place, can be demolished anytime: Subramanian... Mosque is not a religious place, can be demolished anytime: Subramanian Swamy BJP leader Subramanian Swamy has sparked off a...

Conflict	
Non-Conflict	
Not-sure	

🕑 No Answer Recorded

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94)TIMES OF INDIA s id:44:326931884:3.0:

CM advocates mall for women SHGs

woman move sudhir mungantiwar sanjay dhote jal yukt shivar chandrapur chief minister devendra building mall woman group shgs market good rajura tehsil headquarter programme woman shgs shop mall rotation basis group month good benefit move woman shgs awareness drive government jal yukt shivar scheme...

Women | The move | Sudhir Mungantiwar Fadnavis | Sanjay Dhote | Jal Yukt Shivar Chandrapur: Chief minister Devendra Fadnavis on Sunday advocated the idea for building a mall exclusively for women sel...

\bigcirc	Conflict
\odot	Non-Conflict
\odot	Not-sure
ullet	No Answer Recorded

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95)TIMES_OF_INDIA s id:45:326946850:0.0:

IE vaccination drive to cover all 27 dists in Assam

health department health minister japan encephalitis health minister elisa guwahati assam country district japan encephalitis je vaccination child life casualty infant child adult health department disease control health department laboratory district essential elisa kit diagnosis japan encephaliti...

state health department Says Health Minister Japanese Encephalitis Health Minister Elisa Guwahati: Assam is all set to become the first state in the country to have all 27 of its districts co
Conflict
Non-Conflict
O Not-sure
No Answer Recorded
96)TIMES_OF_INDIA s id:46:326960154:3.0:
BJP keeps off Swamy's shrine remark; Gogoi sees red subramanian swamy prakash javadekar controversial remark chatra mukti sangram samiti bjp bjp leader union minister prakash javadekar sought distance colleague subramanian swamy controversial comment mumbai bjp leader union minister prakash javadekar sought distance colleague subramanian swamy contr
Subramanian Swamy Prakash Javadekar controversial remarks Chatra Mukti Sangram Samiti BJP ?BJP?leader and Union Minister?Prakash?Javadekar?on Sunday sought to distance himself from his party
Conflict Non-Conflict
Non-Conflict Not-sure
Not-sure No Answer Recorded
No Aliswei Necorded
97)TIMES_OF_INDIA h id:51:326991974:100.0:
US, Iran work for nuclear pact as deadline approaches nuclear deal mohammad javad lausanne john kerry secretary john kerry arrives geneva march iran foreign minister mohammad javad nuclear talk afp lausanne switzerland united iran negotiation effort decades-long standoff specter iran nuclear arsenal atomic arm race middle east milit intervention week
united states Nuclear Deal Mohammad Javad Zarif LAUSANNE John Kerry US secretary of state John Kerry arrives in Geneva on March 15, 2015 to meet Iranian Foreign Minister Mohammad Javad Zarif
Conflict
Non-Conflict
Not-sure
● No Answer Recorded

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98)TIMES_OF_INDIA s id:47:327200834:2.0:

ASI-protected 14th century tomb gets a whitewash

asi-protected 14th century tomb whitewash maria akram maria akram tnn defaced- tomb khan inside mehrauli archaeological park toi rajesh mehta delhi 14th century monument tomb khan inside mehrauli archaeological park monument archaeological survey india white smaller monument park monument official ...

•
ASI-protected 14th century tomb gets a whitewash Maria Akram Maria Akram ,TNN Defaced- Tomb of Khan Shahid, located inside the Mehrauli Archaeological Park. (TOI photo by Rajesh Mehta) NEW DELHI: A 1
○ Conflict
Non-Conflict
O Not-sure
No Answer Recorded
99)TIMES_OF_INDIA s id:48:327235540:0.0:
4 new H1N1 cases in Assam situation swine flu nazrul islam health minister guwahati kamrup metro district h1n1 positive influenza virus case total number h1n1 positive case assam stand screening

situation swine flu nazrul islam health minister guwahati kamrup metro district h1n1 positive influenza virus case total number h1n1 positive case assam stand screening government facility february h1n1 positive patient district prior health condition diabetes heavy blood pressure disease h1n1 case...

The situation | Swine flu | Nazrul Islam | heart | Health Minister Guwahati: The Kamrup (Metro) district reported three new H1N1 positive (influenza A virus) cases in the past 24 hours. The total num...

\bigcirc	Conflict
\odot	Non-Conflict
\odot	Not-sure
ullet	No Answer Recorded

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100)TIMES_OF_INDIA h id:52:328082767:100.0:

Barack Obama slams Benjamin Netanyahu?s ?deeply divisive rhetoric? as US takes Iran and Hezbollah off terror list

barack obama slam netanyahu divisive rhetoric iran hezbollah terror victoria richards richards independent zionist union terror obama-netanyahu spat israel election iran terror israel pm benjamin netanyahu delivers speech wife sara poll figure israel parliamentary election march tel aviv netanyahu ... Barack Obama slams Benjamin Netanyahu?s ?deeply divisive rhetoric? as US takes Iran and Hezbollah off terror list Victoria Richards Victoria Richards ,The Independent Zionist Union | US terror list |... Conflict Non-Conflict Not-sure 💌 No Answer Recorded 101)TIMES_OF_INDIA h id:53:328566015:100.0: Retreating Boko Haram leaves mass of throat-slit corpses near Nigerian town boko haram mass throat-slit corps nigeria town damasak boko haram milit haram thousand six-year insurgency establishing islamic caliphate northeast nigeria damasak nigeria soldier niger nigeria town damasak boko haram milit body throat bridge witness execution site islamist group body beneath concr... Retreating Boko Haram leaves mass of throat-slit corpses near Nigerian town Damasak | Boko Haram militants Boko Haram has killed thousands of people in a six-year insurgency aimed at establishing an ... Conflict Non-Conflict Not-sure No Answer Recorded 102)TIMES_OF_INDIA h id:54:328725244:100.0: Shia rebels call for Yemen offensive; US troops evacuate shia rebel yemen evacuate yemen shia rebel al-qaeda militman loyal president rabbo hadi ride tank street aden yemen yemen rebel arm force loyal country president troop southern air base crucial drone strike program al-qaeda milit nearby city turmoil yemen battle arab peninsula target drone pr... Shia rebels call for Yemen offensive; US troops evacuate Yemen | Shia rebels | al-Qaida Militiamen loyal to President Abed Rabbo Mansour Hadi ride on a tank on a street in Aden, Yemen. ADEN, Yemen: Y... Conflict Non-Conflict

Not-sure

103)TIMES_OF_INDIA h id:55:328757204:100.0:

IS posts pictures of 100 US military on kill list

milit fight flag travel vehicle milit parade street syria raqqa province washington islamic name photo america milit service member brother america pentagon internet matter confirm validity defense official condition anonymity personnel opsec operation security force protection procedure official i...

Militant Islamist fighters waving flags, travel in vehicles as	s they take part in a military
parade along the streets of Syria's northern Raqqa provin-	ce. (Reuters file photo)
WASHINGTON: Islamic State	
Conflict	
O Non-Conflict	

Not-sure

No Answer Recorded

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