Jefferson Richards Natural Language Big Data Portfolio

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1. Summary

The goal of the my natural language big data applications and event risk analysis reporting system was to practice using SQL, Java, Android, iOS, MATLAB, and R while bring unbiased news to my friends and family. I chose Reuters and Associated Press as the main sources of information because they are newswires that are uniquely unbiased. My first step was to determine the patterns of the news HTML web pages. Once I discovered how to extract necessary metadata from each news article, I created Java applications to run through the hundreds of Reuters and Associated Press articles a day. I wanted to expand out the service to not only my friends and family, so I signed up 50 people in 3 days under the preface that I would send them tailored news without advertisement or political spin.

Around the same time as the news service, I built an Android and iOS app to sort through the massive amount of news being collected every day. Keeping up with modern innovations and regulations is not the burden that it used to be before these big data apps.

I naturally began to research event-impact analysis to make sense of all the data. Not only did I notice patterns in the events of the news, but it became easier to predict styles of press releases. I eventually found out about International Event Codes through the <u>GDELT</u> and <u>PHOENIX</u> projects. I read ISO 31000 - a risk management standard - and began to create decision algorithms based on a combination of event code isolation, governance classification, and risk evaluation. I also implemented event analysis with MATLAB neural networks and R multi-variable regression.

I look forward to finding the right team to carry forward a primed and ready Natural Language Processing Research Engine.

2. iOS App

The iOS app has 2 options of use.

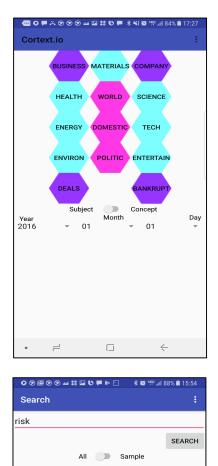
- 1. The first option is to search all or a sample of sentences by key phrase.
- 2. The second option is to view the headlines for a specific date.

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U.S. top court turns away dispute involving Irans Bank Melli Mon Mar 05 1902:31 UTC 2018 http://www.reuters.com/article/us-usa-court-iran/u-s-top-court-iurns-away-dispute-invo idUSKBN104-12571feed17peen558amg16eelName=demosticNews Both disputes center on the reach of a 1976 federal law called the Foreign Sovereign Imm shields foreign governments from liability in American courts, except for countries like Iran by the US government as state sponsors of terrorism	munities Act that largely		April	8 eadline	2019	
Take up stalled self-driving car bill, automakers urge U.S. Senate Mon Mar 05 20:56:20 UTC 2018 http://www.reuters.com/article/us-autos-selfdriving/take-up-stalled-self-driving-car-bill- senate-idUSKBN1GH33J?feedType=RSS&.feedTyme=technologyNews States could set rules on registration, licensing, liability and insurance, but not performar	Ť	Thu Mar 01 18:25:12 U http://www.reuters.cor under-wraps-idUSKCN Researchers have disc	mummies after millennia under TC 2018 /article/us-britain-mummies-ta 105D1Y7feed/yse=RSS&ft 105D1Y7feed/yse=RSS&ft overed the oldest figurative tatts British Museum said on Thurso	attoo/tatto eedName oos in the	=scienceNews	
Hogs v. humans: Neighbors fight back against swine waste 2018-03-05 http://hosted.ap.org/dynamic/stories/U/US_INDUSTRIAL_FARMING_IMPACT_IAOL-? SITE=AP&amySECTION=HOME&TEMPLATE=DEFAULT The new law limited a producer's liability to the lost property value plaintiffs can pr a move critics said was the latest legislative gift to the hog industry at the expense of the *****		Wed Feb 28 18:31:31 L http://www.reuters.cor idUSKCN1GC2SF?feed A ground-based radio	earliest-known stars detected TC 2018 //article/us-space-stars/eviden Type=RSS&/feedName=sci antenna in western Australia tha tars that illuminated an infant ur	<mark>enceNew</mark> at resemb	s les a dining room table l	has detected evidence
Facebook says finds no new evidence Russia interfered in Brexit Wed Feb 28 19:58:07 UTC 2018 http://www.reuters.com/article/us-uk-brexit-facebook/facebook-says-finds-no-new-evidi brexit-referendum-idUSKCHIOCG3097teedType=RSS&feedName=technologyNews These could include measures to clarify the companies? legal liability for material they di obligations to address social problems the companies content could engender, he said		Wed Feb 28 07:46:14 I http://www.reuters.cor idUSKCN1GC09Z?feed A capsule carrying two	rns from space station: NASA T JTC 2018 Jarticle/us-space-landing/u-s- Jype=RSS&feedName=sci U.S. astronauts and a Russian o Wednesday after a five-and-a-h	russian-c ienceNew cosmonau	s ut from the International	Space Station landed in
Five moves each NFC team should make in 2018 NFL offseason for trades, free agency, cr 2018-02-15T12:36:00Z http://www.espn.com/nfl/story/_/page/BarnwellxFiveNFCMoves2018/five-moves-nfc-team offseason-trades-free-agency-cuts-bill-barnwell The cornerback position continues to be a liability for the Buccaneers		Wed Feb 28 12:25:09 I http://www.reuters.cor watchdog-confirms-id Wild bees and honeyb	risk, European watchdog confirr JTC 2018 //article/us-science-europe-per JSKCNIGC18G7feedType=RSS/ ses are put at risk by three pesti aaid on Wednesday, confirming	sticides/p &fee icides fro	dName=scienceNews m a group known as neo	onicotinoids, Europes
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3.Android App

The android app has 3 options of use.

- 3. The first option is to choose a detailed summary of articles by category.
- 4. The second option is to search all or a sample of sentences by key phrase.
- 5. The third option is to view the headlines for a specific date.



2018-03-07

The salvage logging permitted by the government to remove the downed trees to reduce the risk of forest fires continued to damage the fragile ecosystem, he said

2018-03-07

Increased use of herbicides in the United States have hurt the prevalence of milkweed, which monarch caterpillars feed on, risking their survival

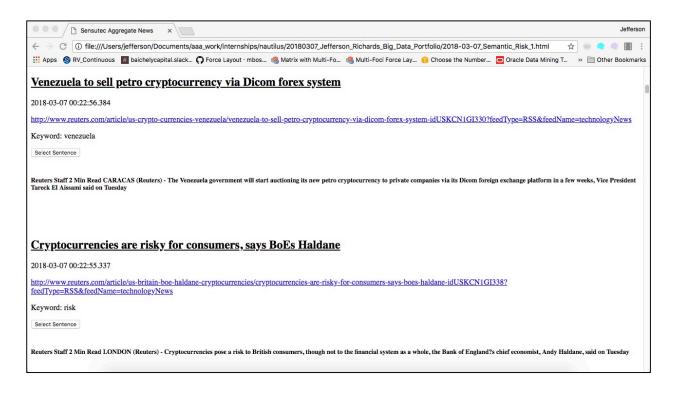
2018-03-07

In a September 2017 article in American Entomologist, Brower wrote that "forest thinning reduces the microclimatic buffering provided by the forest canopy during the winter season, thus increasing the mortality risk to the overwintering monarchs

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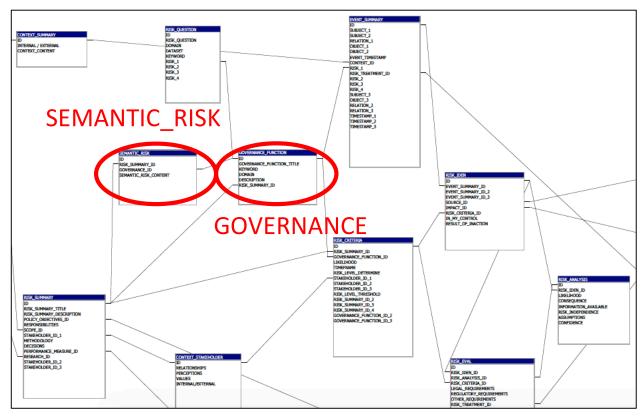
4. Email News Service

Each news snippet contains the title, the date, the link, the keyword used for filtering, an option to select the sentence and thereby send feedback to the news service, and the sentence containing the keyword. A list of 10 common keywords can have up to 300 news snippets.



See 2018-03-07_Semantic_Risk.html for example

5. Event Code Notification System



See **RISK_MODEL_20170427.pdf** for full model

Attempting to follow ISO 31000 as close as possible, I generated an Oracle risk data model. The data model assists in the evaluation of events and impacts in the news. I had to discover which impacts were pertinent to what my friends and family valued.

For instance, my sister works in the medical industry.

- I derived governance functions from the medical related web crawls I programmed.
- Then I extracted risk phrases that acted as triggers during the daily news web scraping.
- With the daily email news, my sister had the option to select significant sentences.
- A weekly report is generated and sent to my sister with the key event metadata extracted from the daily selections.
- If my sister so chooses, she can request a web crawl to be performed on the concepts and subjects of the report.
- During the whole process, events make their way from risk identification to risk evaluation within the risk database.

There is some data noise during the process, but it can be reduced with regular maintenance and user feedback.

GOVERNANCE

GOVERNANCE_ID GOVERNANCE_TITLE	8 RISK_ID 8 GOVERNANCE_DESCRIPTION
1 Business Relationship Deterioration	1 loss of customers, loss of credibility of authority
2 Media Resonance	1 Massive amounts of people knowing about internal events and relationships
3 Sensitive Media Topics	1 vulnerable members of society, regulatory areas
4 Political Debate	1 social repercussions, attention of national politicians
5 Adverse Exchange Rate	2 adverse movement in the exchange rate of the denomination currency in relation
6 Settlement Deterioration	3 Fail to come to terms of settlement
7 Technology Systems Breach	4 Alien access to technology systems
8 Liquidity Impact	5 Asset cannot be traded quickly enough without affecting market value
9Natural Disaster	6Natural Disaster
10 Operational Expense	7 Expense accrued due to operations
11 Legal Impact	7 Legal action taken due to event
12 Personal Bodily Damage	8 Harm done to individual body
13 Personal Psychological Damage	8 Harm done to individual emotional, logical, or spiritual self
14 Credit Deterioration	9Negative influence on the ability to lend or borrow
15 Manufacturing Setback	10 Roadblock to Product Lifecycle Management
16 Strategic Relationship Setback	11Negative impact on long-term relationships
17 Strategic Resource Setback	11Negative Impact on long-term resource acquisition
18 Strategic Influence Setback	11Negative impact on long-term influence
19 Patent Infringement	12 Trademark or Patent Infringement
20 Material Supply Negative Risk	13 Negative impact on supply of materials (raw)
21 Time Lapse	14 Something boring or tedious
22 Time Acceleration	14 Something exciting or sexy
23 Monopoly Creation	15 Increase of likelihood of creating a monopoly
24 Socialistic Dominance	15 Increase likelihood of lack of competition
25 Increase Tax	16 (Increase likelihood of passing) Legislation that increases tax
26 Decrease Tax	16 (Increase likelihood of passing) Legislation that decreases tax

GOVERNANCE_ID GOVERNANCE_TITLE	RISK_ID & GOVERNANCE_DESCRIPTION ID Increase of circuing a monopoly
24 Socialistic Dominance	15 Increase likelihood of lack of competition
25 Increase Tax	16 (Increase likelihood of passing) Legislation that increases tax
26 Decrease Tax	16 (Increase likelihood of passing) Legislation that decreases tax
27 Harm Environment	17 Decrease likelihood of life proliferating (not cancer)
28 Help Environment	17 Increase likelihood of life proliferating (not cancer)
29 Decrease Asset Value	18 Decrease value of assets
30 Increase Asset Value	18 Increase value of assets
31 Increase Liability	19 Increase value of liabilities
32 Decrease Liability	19 Decrease value of liabilities
33 Lesser Ability to Pay Dividends	20Negatively impact ability to pay dividends
34 Increase Equity	21 Increase Equity
35 Decrease Equity 36 Poor Audit	21 Decrease Equity
561 661 118821	22 Increase likelihood of a poor audit
37 Great Audit	22 Increase likelihood of a great audit
38 Decrease Fuel Price	23 Decrease fuel price
39 Increase Fuel Price	23 Increase Fuel Price
40 Pass Consumer Quality Standards	24 Increase Likelihood of passing quality standards
41 Fail Consumer Quality Standards	24 Increase Likelihood of failing quality standards
42 Decrease Profit	25 Decrease profit
43 Increase Profit	25 Increase Profit
44 Increase Volatility	26 Increase fluctuation
45 Decrease Volatilty	26 Decrease fluctuation
46 Undervalue	27 Increase likelihood of undervalue
47 Overvalue	27 Increase likelihood of overvalue
49 Medical Interest	29 Medical Interests
50 Political Interest	30 Political Interests

SEMANTIC_RISK

SEMANTIC_RISK	RISK_ID	GOVERNANCE_ID	SEMANTIC_RISK_CONTENT	<pre> OWNER_ID </pre>
41	4	7	hack	0
42	4	7	leak	0
43	4	7	internet	0
44	4	7	web	0
45	4	7	secur	0
46	5	8	liquid	0
47	5	8	cash	0
48	5	8	market value	0
49	6	9	tornado	0
50	6	9	hurricane	0
51	6	9	heat	0
52	6	9	chill	0
53	6	9	wind	0
54	6	9	storm	0
55	6	9	monsoon	0
56	6	9	hot	0
57	6	9	cold	0
58	7	10	operat	0
59	7	10	action	0
60	7	10	activity	0
61	7	10	affair	0
62	7	10	agency	0
63	7	10	application	0
64	7	10	procedure	0
65	7	10	workflow	0
66	7	10	process	0

SEMANTIC_RISK	🕸 RISK_ID	GOVERNANCE_ID	SEMANTIC_RISK_CONTENT	OWNER_ID
150	. 16	25	tax	. 0
151	16	25	duty	0
152	16	25	fine	0
153	16	25	levy	0
154	16	25	tariff	0
155	16	25	rate	0
156	17	27	environ	0
157	17	27	organic	0
158	17	27	green	0
159	17	27	climate	0
160	17	27	habitat	0
161	17	27	global warming	0
162	18	29	asset	0
163	18	29	propert	0
164	18	29	estate	0
165	18	29	farm	0
166	19	31	liable	0
167	19		liability	0
168	19	31	liabilities	0
169	19	31	owe	0
170	19	31	debt	0
171	19		accountab	0
172	19		oblig	0
173	20		dividend	0
174	20		salar	0
175	20	33	allowance	0

SENTENCE SELECT

Venezuela to sell petro cryptocurrency

2018-03-07 00:22:56.384

http://www.reuters.com/article/us-crypto-currencies-venezuela/

Keyword: venezuela

Select Sentence

? It is not immediately evident if and how the petro can function as fore

Venezuela to sell petro cryptocurrency v

2018-03-07 00:22:56.384

http://www.reuters.com/article/us-crypto-currencies-venezuela/v

Keyword: venezuela

Select Sentence

? It is not immediately evident if and how the petro can function as forei

See 2018-03-07_Semantic_Risk.html for example

SUBJECT	CONCEPT RISK	▼ INTERNATIONAL_CODE ▼ EVENT_TIMESTAMP	SENT SINT
Kathleen Gallagher of the New York St	Kathleen Gallagher of the New York St. most susceptible / pressure / lives / iss. Volatility / Human Capital / LOGIC	Yield / Grant / Yield to order / Force / i 2017-09-10 00:35:39.007	"The decision is a significant victory for take / the / own / including / are / said
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Under	riparian law water / public / air sunligh LOGIC / intellectual Property	Grant / Force / Reward / Accident / LO 2017-9-13 0:23:45	Under riparian law, water is a public gc is / good / like / the / or
LOGIC	grantee shall / quiet possession / prop LOGIC	LOGIC 2017-9-13 23:50:17	that the grantee shall have quiet posse LOGIC
LOGIC	grantor will / such further assurances / LOGIC	LOGIC 2017-9-13 23:50:25	that the grantor will execute such furt! LOGIC
Philippine President Rodrigo Duterte /	Philippine President Rodrigo Duterte / / allow joint patrols with / with / dispu Strategic / LOGIC / Intellectual Propert Adjust / Grant / Yield / Deny / Yield to 2017-07-01 00:14:19.332	t Adjust / Grant / Yield / Deny / Yield to 2017-07-01 00:14:19.332	Philippine President Rodrigo Duterte d in / does / not / the / to / its / claims / c
and in NHTSA / Corporate Average Fue	and in NHTSA / Corporate Average Fue ordered / federal / adjust / civil / pena Consumer / Fuel Price / LOGIC / Tax	Grant / Propose / Demand / Rally supp 2017-09-08 00:22:59.726	Congress in 2015 ordered federal agen to / for / and / of / that / required / the
But Lebanon / US	politically risky country / remains / cor Volatility / LOGIC	Grant / Adjust / Seize / Force / Accuse 2017-08-27 00:27:01.273	But Lebanon remains a politically risky in / and / have / more / has
The	purpose / should / profit / incidentally Profit / Operational / LOGIC	Propose / Grant / Yield / Yield to order 20170824	The purpose of a business should be tt of / business / be / to / make / and / re
Logistic	/regression / statistical technique com Material Supply / Systematic / IT / LOG Demand / Grant / Force / Threaten / A 2017-08-09 13:34:09.232	G Demand / Grant / Force / Threaten / A 2017-08-09 13:34:09.232	Logistic regression is the statistical tecl is / the / for / of
Since	/ main / portfolio / selection / consists Volatility / LOGIC	Grant / Yield to order / Defy norms / Fi 2017-08-08 07:28:05.211	Since the main concern of portfolio sel in / the / concern / of / to / and / this
For / June / Board / Extensive	year / 30 1996 / target / been met / th LOGIC	Grant / Propose / Demonstrate / Bomł 2017-8-28 12:38:22	For the plan year ending June 30, 1996 the / plan / ending / has / not / and / o
Sat Sep / UTC / Eli Lilly and Co / Min Re	sat Sep / UTC / Eli Ully and Co / Min Rt / 09 220750 / 2017 3 / experimental Volatility / Consumer / Human Capital Grant / Adjust / Propose / Yield to ordi 2017-09-10 00:22:03.551	Grant / Adjust / Propose / Yield to ord/ 2017-09-10 00:22:03.551	Sat Sep 09 22:07:50 UTC 2017 3 Min in / and / standard / of / not / for / to
Masters	/ someday drones might / able / risky j Volatility / LOGIC	Grant / Adjust / Seize / Yield to order / 2017-09-10 00:29:22.364	Masters says someday drones might b says / be / to / do / the / now / experie
LOGIC	grantor / lawfully seized / fee simple / LOGIC	LOGIC 2017-9-13 23:49:47	that the grantor is lawfully seized (in ft LOGIC
LOGIC	grantor / property / grantee LOGIC	LOGIC 2017-9-13 23:49:54	that the grantor has the right to conve LOGIC
LOGIC	property / without encumbrances / co ⁻ LOGIC	LOGIC 2017-9-13 23:50:6	the property is conveyed without encu LOGIC
Logistic / ROC	/regression / receiver / characteristic, Material Supply / Operational / LOGIC Grant / Bombings / Force / Comment / 2017-08-07 15:39:01.83	Grant / Bombings / Force / Comment / 2017-08-07 15:39:01.83	Logistic regression and receiver operat and / operating / of
In	/ practice / desirable / actuarial premit Dividends / Operational / LOGIC	Grant / Adjust / Demand / Bombings / 2017-08-08 05:23:25.258	In practice it is desirable to estimate thit / is / to / estimate / the / for / and / c
LOGIC	most offices choose / adjust / premiun LOGIC	LOGIC 2017-8-27 20:40:58	most offices choose not to adjust their LOGIC
LOGIC	proposers should / access / insurance , LOGIC	LOGIC 2017-8-27 20:42:1	all proposers should have access to ins LOGIC
For / PC	reserves / health insurers loss reserves Dividends / LOGIC	Grant / Rally support / Force / Complai 2017-8-28 12:4:47	For health insurers, loss reserves are the are / the / of / claim / and
For / AH	life / life insurers loss reserves / sum / Settlement / LOGIC / Liabilities	Grant / Rally support / Reduce routine 2017-8-28 12:5:1	For life insurers, loss reserves are the s are / the / of / for / and / claims

EVENT REPORT