

IBM Software

Information Management & Analytics Forum 2013

Return on Information: The New ROI

Analyze, search, and classify content for better business outcomes



Agenda

- Why IBM Content Analytics
- How does IBM Content Analytics work?
- Analysing Social Media Comments (Web and Twitter)
- Content Analytics Case Study
- Why organizations need Content Classification?
- Content Classification How does it work?
- Content Analytics / Classification Case Studies

A Content Big Bang (not a Theory) Every day, we create 2.5 quintillion bytes of information 90% of the information in the world today has been created in the last two years alone 80% of the information is unstructured content Information Management & Analytics Forum 2013 Return on Information: The New RO

IBM Solutions are Built on our Core Capabilities





and gain control of the content to determine the value

ACTIVATE



and put the content in context





for better collaboration and access





and identify patterns to gain insights



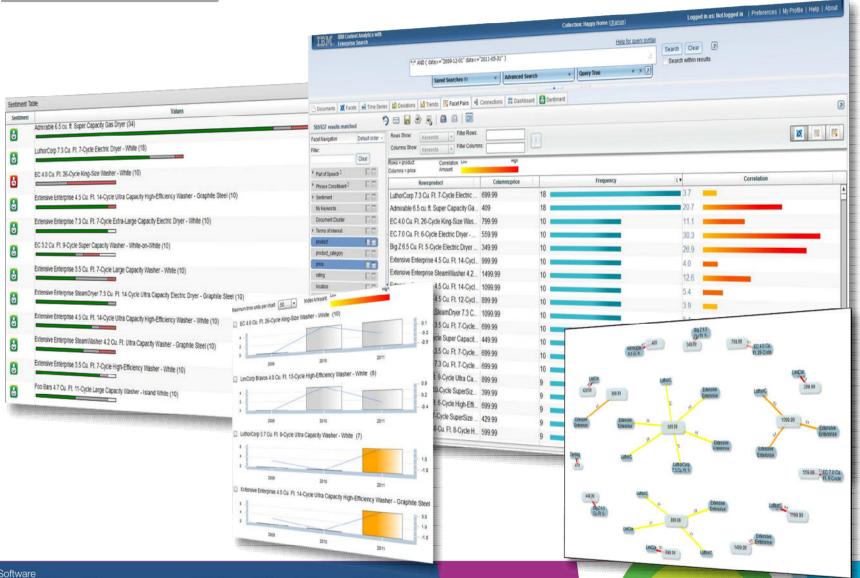


for reduced cost and risk





IBM Content Analytics 3.0

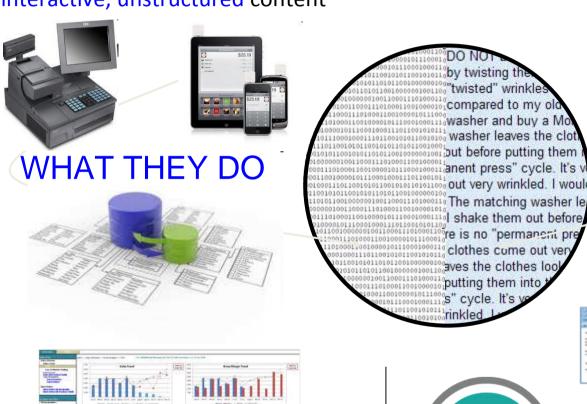


The Need



Introduction to IBM Content Analytics Challenge: 80% of today's Information is Unstructured

Analytics is changing from transactional, structured data to interactive, unstructured content





WHAT THEY THINK





Text Messages





Over 80% of stored information is unstructured*

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* AIIM website, accepted industry percentage

Data tells you **what** happened, Content Analytics tells you **why** it happened

What

Sales missed due to out of stock inventory



Why

Early indicators of negative sentiment when product is out of stock

IBM Content Analytics: Sample Customers













Northeast

Utilities

























































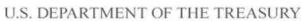




































United States Department of Agriculture



























Why should you care?



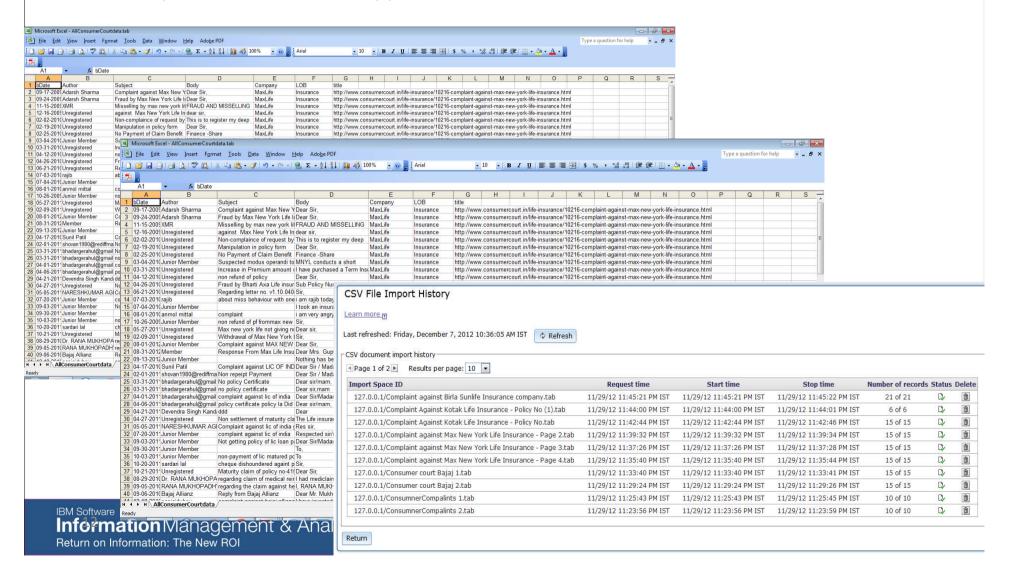
Example: Analysing Websites for Consumer Comments

Identified the following blogging websites:

http://www.consumercomplaints.in MAX NEW YORK UPE INSURANCE Compliants & Reviews - Mobils Firefor IBM Edition http://www.consumercourt.in File Edit Yew History Bookmarks Inch Help max Me incurance complaints - Goog... - Complaint against Max New York Life... - 🗸 MAX NEW YORK LIFE INSURANCE Co... × 🛨 www.consumercomplaints.in/bycompany/man.new-yeah-Ha-manants-a250%.htm The Complaint of the State of t P . http://www.mouthshut.com Most Visited 🔋 IBM 🔋 Personal 🔒 Investments 📙 Tech witcles 🐣 The Personal World CL., 🚑 8 Keys to Being a Goo., 📦 Dynamic feed onted b.. 🗌 Atlas Suite 🔒 Connect In evere 📴 SWG TLS Jan 2013 Elita 344 (14) > A Home / Questions News & Stories Submit Complain Sign up for AdWords www.mouthshut.com/product-reviews/Max-NewYork-Life-Insurance-reviews-925022894 🚂 Most Visited] IBM] Personal] Investments 🕒 Tech articles 🐣 The Personal World Cl... 🚒 8 Keys to Being a Goo... 🔊 Dynamic feed sorted b... 📋 Atlas Suite 🧓 Connect Q 💷 🕰 🔻 MAX NEW YORK LIFE INSURANCE Complaints & Reviews Insurance Agents become a real headache. Customer care is more than worst. I will not r MAX NEW YORK LIFE INSURANCE Looking for insurance Agents in India. O Uniterpretation of July 5:211 Find on Gettt policy payment status Member's Recommendation: No Not Rated IndiaFirst Term Insurance plo send current pay ment with including interest details upto \$8 date, my policy no: 453466036 BG rd blore Read 1178 times Pay Re 9/day* for a 25 lakh cover IndiaFirst ★ 章 章 章 章 Oct 19, 2012 04:44 PM Comments (0) Anytime Plan kikishnakumar Customer Service: Claims Settlement ----O'Head permants Firefra, Tarrel Nada, Ministra Rates/Premium: Range of Plans: LIC Life Insurance Plans Staff Attitude: MAX NEW YORK LIFE INSURANCE Invest Rs 543/Month & Get Rs. 1 Cr. Life I simply say Dont go for MAx newyork. They always suggest policy which fetch Cover+Medical Benefit, Buy Nov huge commission for the agents. Dont trust NAGARAJ M D . he always give Refund of RS 25001false commitments. Once u enter MAx new york u cannt exit.. it makes yr life with reference to the above outsided i have paid the amount is 2500f-by cheque no 057125 dated 26/10/2005 of local bank garegoan east branch mumbal and the same was clear from my bank on 26/10/2005, this amount was paid to the insurance company with proposal form, but till now i towe notivet Read complete review Indana LPG New Indoor LPS Connection MAX NEW YORK LIFE INSURANCE Member's Recommendation: No Not Rated land for town g minaffilia im J.J. 20, 2010 Max newyork life believs in cheating! ★ ☆ ☆ ☆ ☆ Oct 06, 2012 01:24 PM Customer Service: ===== Claims Settlement: == cancelled the max new york life insurance within the time period they gave, but due to the irresponsibility of the officers they said that the policy Pauc talls Rates/Premium: ====== Range of Plans: cannot be cancelled, so windly favor me in cancelling the policy as soon as possible. Staff Attitude: RMOS senice provider (i) India, Tamil Heat, Channel Praud consultance Max new york life doesnt have any business ethics and they are cheating people by fake commitments. I bought a policy around three and half years MAX NEW YORK LIFE INSURANCE BSNL PREPAID TAMIL NADU back(for 80C) with assurance that after 3 years you can withdraw your amount March Life Gand agend no story Of 1991 without any charges and when I actually wanted to withdraw there were heav. Read complete review 🏺 Best 🛊 Brevious 🖟 Highlight 🛊 💹 Match case - 🕕 Phrase not found

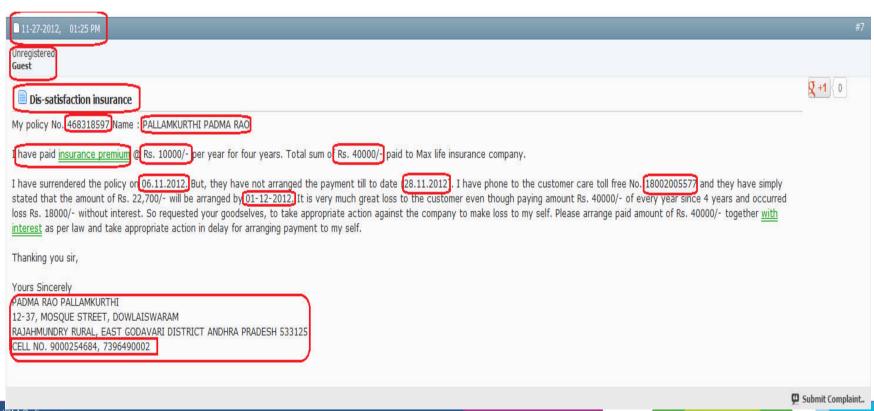
Crawl and collect data from websites

- OOTB Content Analytics can crawl web sites and some, but not all Blogs.
- Custom Developed Crawler plug-is are required for certain Webpages
- Developed custom Web Scrapper to crawl web sites and store the data into CSV files.



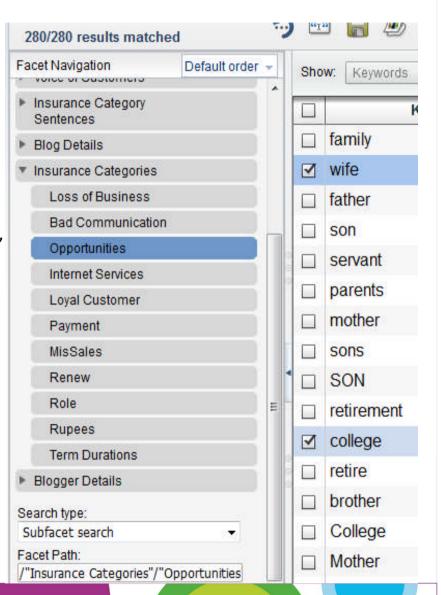
Content Analytics and Blogs

- A blog has Structured and Unstructured data.
- Structured data such as Author, Subject and Date
- Unstructured could be Policy numbers, Amount, Address, phone numbers, sentiments and nature of comment

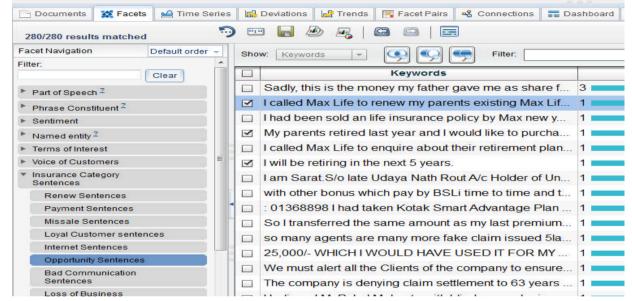


Content Analytics – Insurance Website Categories

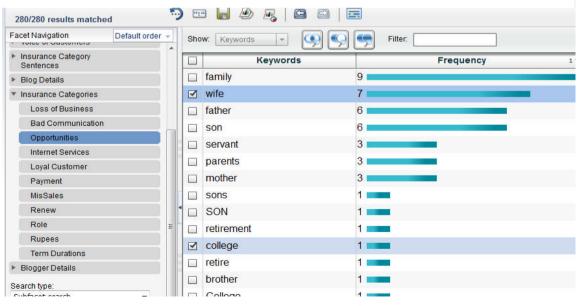
- ✓ **Loss of Business:** Identify customers expressing churn.
- ✓ Bad Communication: Identify interaction issues with CSRs and customers.
- ✓ **Opportunities**: Identify new opportunities like person getting married and calling to add wife, teenage kid getting into college, retirement in next 3 years etc..
- ✓ Internet Services: Learn corporate website and internet related interactions like reset password, access to accounts, online help etc.
- ✓ **Loyal Customer**: Identify loyal customers to retain business.
- Payment: Identify issues related to late payments or refunds.
- ✓ Mis Sale: Identify fraud and mis sale of policies by agents.
- ✓ Renew: Identify issues and opportunities related to renewal of policies.
- ✓ Rupees: Identify money transactions.
- ✓ Term Durations: Identify duration of policies



Insurance Categories and Sentences

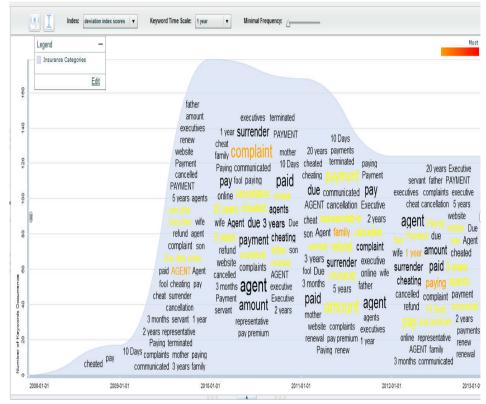


Identify sentences around the keywords for rapid discovery.

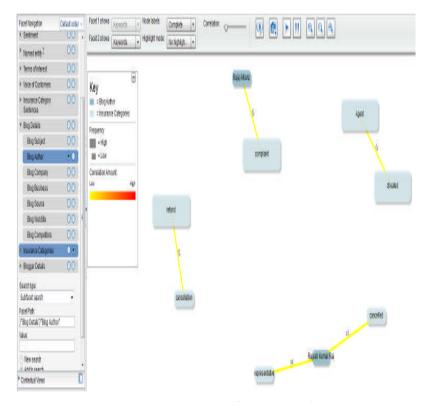


Use keywords to identify categories.

Two views of Content Analytics Website Analysis



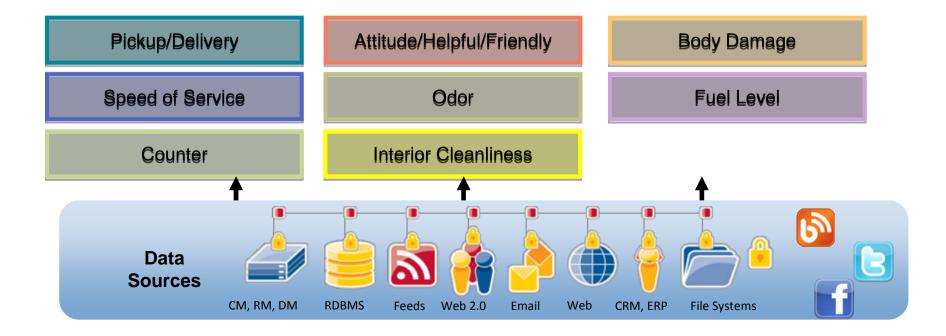
Identify Evolving Topics



Connect people and issues

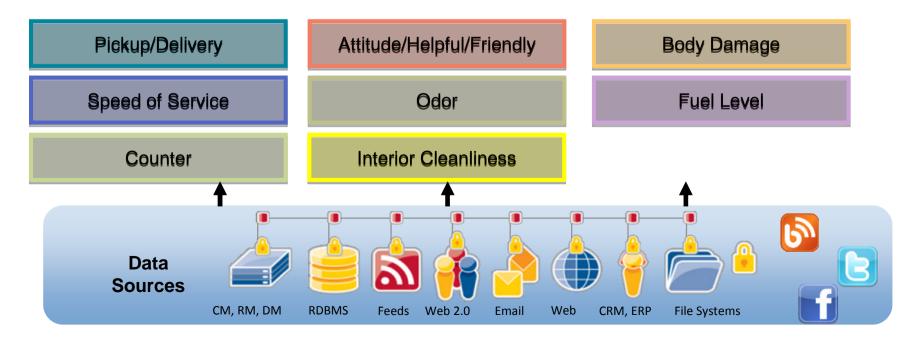
IBM Content Analytics: Analysing customer sentiment

Not only was the pick-up line at the counter very long, but I waited 30 minutes just to talk to a rude representative who gave me a car that smelled like smoke, had stained floor mats, a dented fender, and only half a tank of gas.



Deeper contextual analysis with IBM Content Analytics

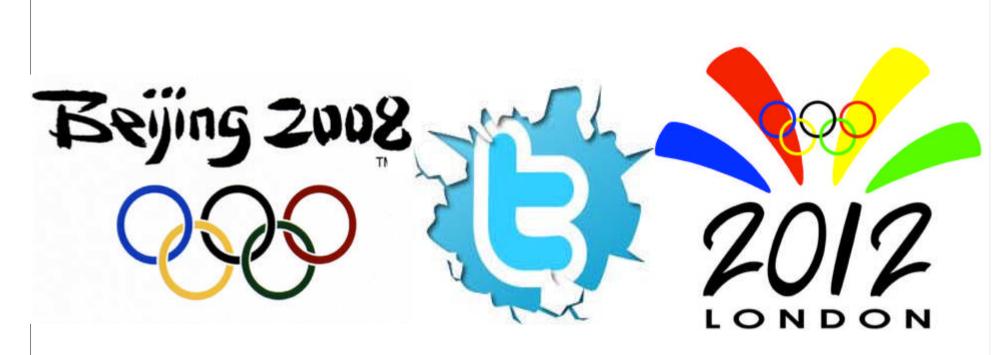
Not only was the pick-up line at the counter very long, but I waited 30 minutes just to talk to a rude representative who gave me a that smelled like smoke, had stained floor mats, a dented fender, and only half a tank of gas.



Quickly identify Customer Service and Brand problems

		% Condition of vehicle & equipment (0 - 5)	% Interior Not Clean	% Exterior Not Clean	% Vehicle Odor	% Fuel Tank Not Full	% Extra Equipment Missing or Not Working	% Fluids, Tires, Wipers, Accessories	% Engine- Related Problems
Totals		17.5	4.9	2.2	4.4	0.9	1.7	1.3	1.3
	Location #1	21.1	3.5	2.8	5.6	1.4	2.1	0.7	2.1
	Location #2	20.0	8.1	4.1	4.1	0.0	0.0	2.7	1.4
	Location #3	20.0	6.5	2.2	4.3	4.3	4.3	4.3	0.0
	Location #4	17.9	5.1	2.0	4.5	0.6	1.8	1.2	1.4
	Location #5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





83x

6,000,000 users on Twitter pushing out 300,000 tweets per day

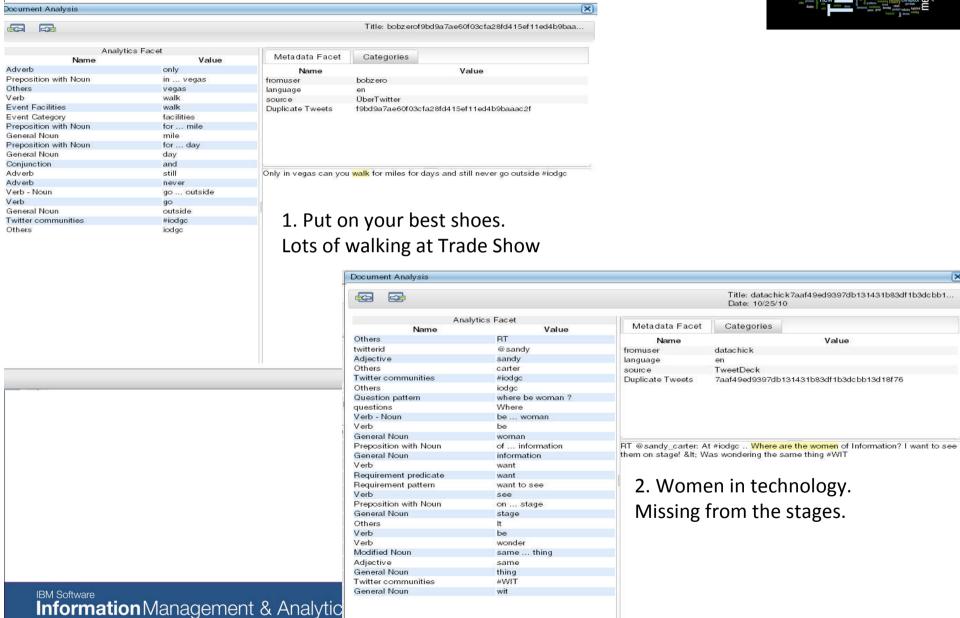
500,000,000 users on Twitter pushing out 400,000,000 tweets per day

1333x

Content Analytics: Analysis of Twitter comments

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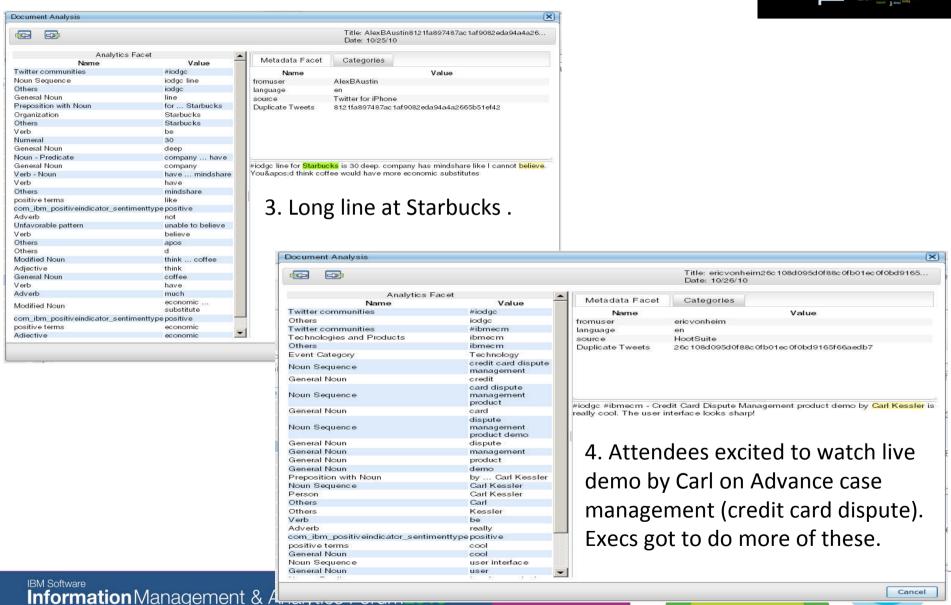




IBM Content Analytics: Analysis of Twitter

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IBM Content Analytics – Analysis of Customer Tweets

