



Who is **Basis Technology?**



Building innovative text analytic components **since 1998**

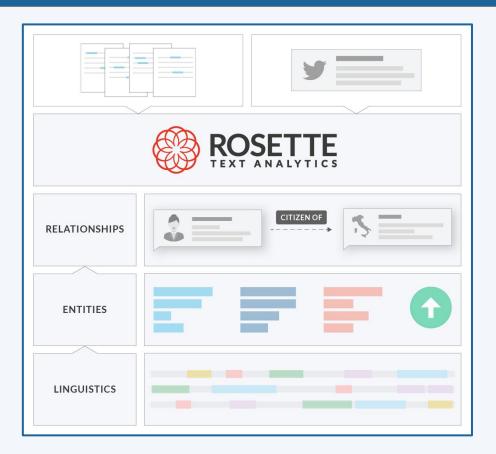
Robust capabilities

Prominent customers

Most use of our technology is done **unknowingly**

Select Customers





Text Analysis **History**

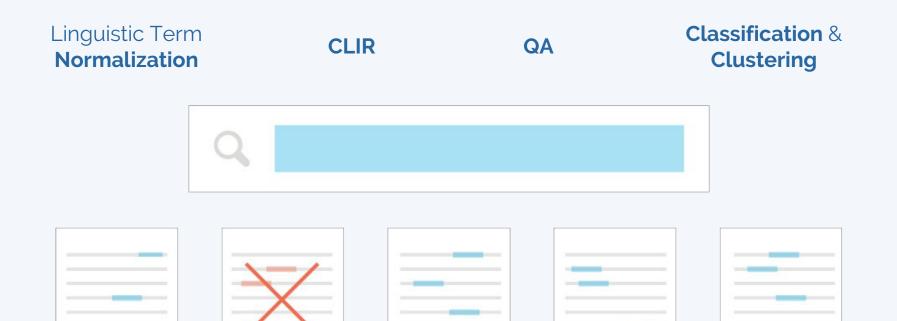


Three Eras Over the Past Two Decades



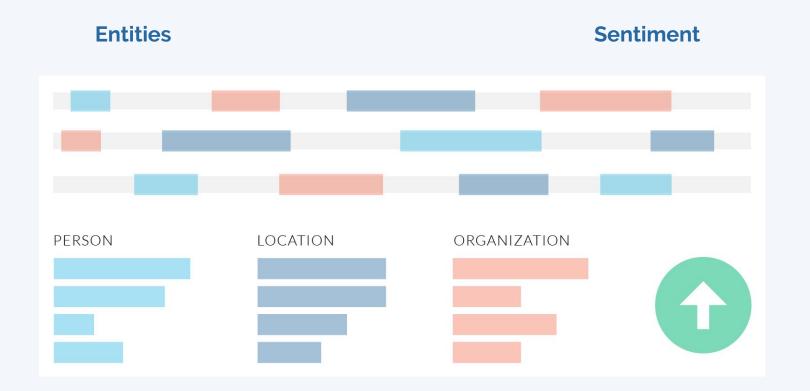
Era 1: Finding Documents





Era 2: **Extracting** Tidbits



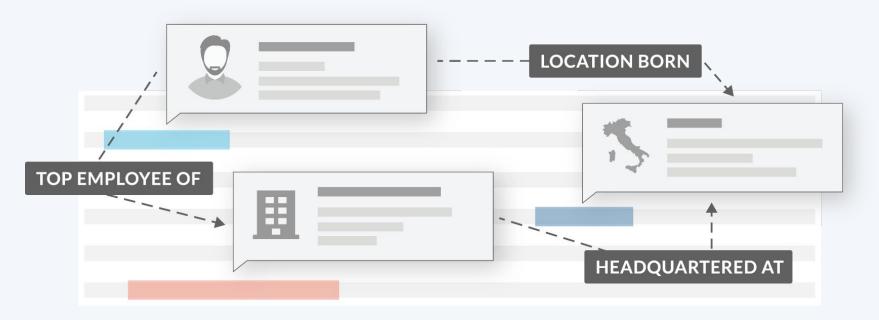


Era 3: **Connecting** the Dots



Relationships

Resolution/Linking



Moving **Beyond** Foundational Tools



Prattle transforms complex communications into tradable data.



Opportunities in **Regulatory** Data



8 months prior to Volkswagen's emissions scandal, Korean environmental regulators took action against Volkswagen for the same thing.

By using simple entity ID, investors and regulators would have **already known** about VW emissions issues.



News Releases from Headquarters

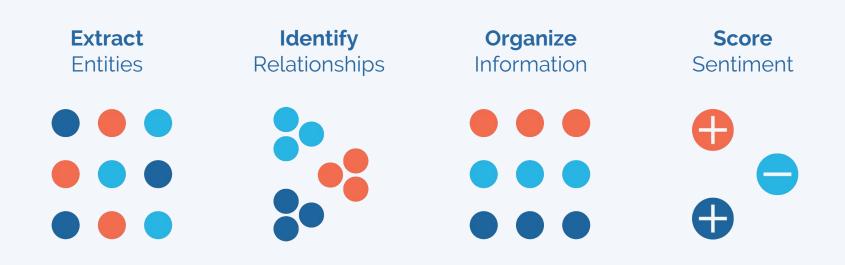
Volkswagen to Spend Up to \$14.7 Billion to Settle Allegations of Cheating Emissions Tests and Deceiving Customers on 2.0 Liter Diesel Vehicles

Settlements Require VW to Spend up to \$10 Billion to Buyback, Terminate Leases, or Modify Affected 2.0 Liter Vehicles and Compensate Consumers, and Spend \$4.7 Billion to Mitigate Pollution and Make Investments that Support Zero-Emission Vehicle Technology

06/28/2016

Analyzing Regulatory Information



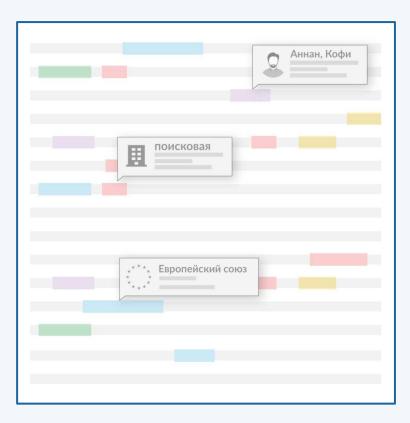


Entity Identification and Extraction



Using Basis Technology, Prattle identifies and extracts all mentions of publicly traded corporations by all developed world regulators.

Named entity recognition will be necessary for **foreign language** regulators.



Document Scraping and Storage



All U.S. regulatory agency **documents** scraped via API

All U.S. regulatory **notices and comments**

scraped via Regulations.gov





Your Voice in Federal Decision-Making

Rosette API (entity extraction function) **processes** raw text



Scraping and Storage cont.



Processed documents **uploaded** to Elasticsearch Updates to Federal Register automatically ingested and formatted Data **stored** as nodes on a graph including Document, Agency, Docket, Comment, and Entity

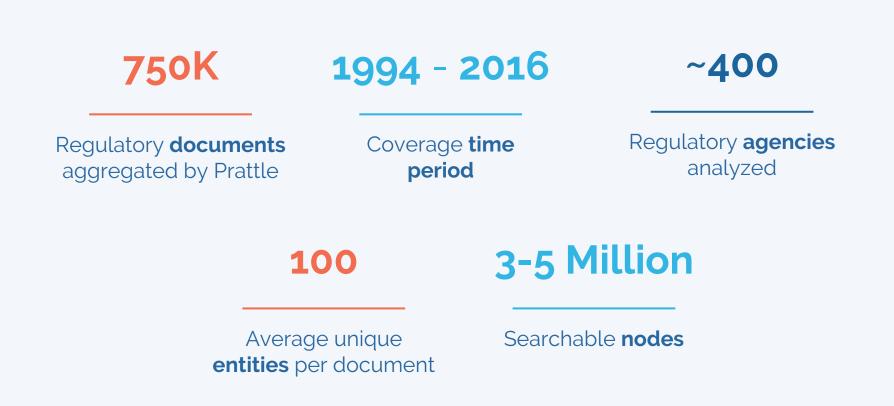






Volume of Communications



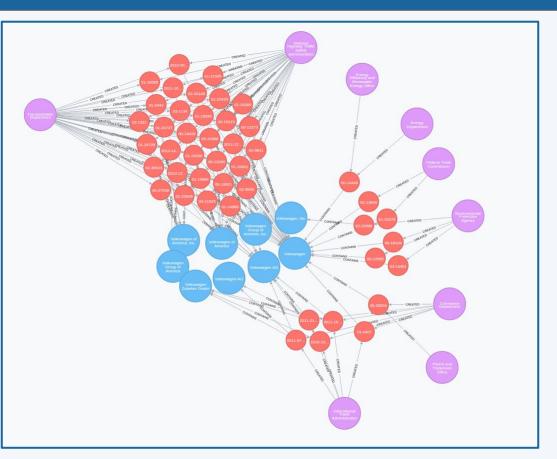


Identifying **Relationships**



Agencies and Regulations mentioning Volkswagen



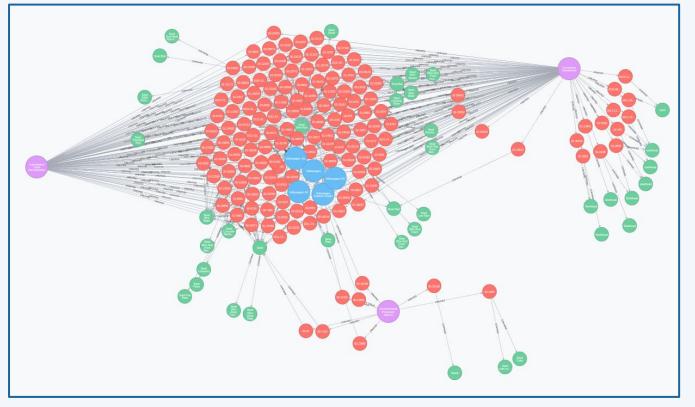


Going a Step Further



Agencies and Regulations mentioning Volkswagen and steel





Constructing Lexicons



Historical regulatory actions are used as a **baseline** for gleaning sentiment from regulators.



This allows for the construction of a completely **unique lexicon** for each regulator.



Moving Forward

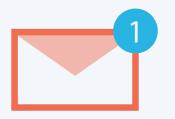


Alert-based system

that identifies new regulatory mentions of specific entities Relationship-based suggestion algorithm to identify mentions of related entities

Prediction algorithm

to identify regulatory risk due to relationships







The Future of NLP



Sentiment analysis is now able to **effectively** analyze complex, nuanced language, making robo analysts an effective option.

However, the future isn't artificial intelligence eliminating human analysis; it's artificial intelligence **augmenting** human analysis.

THE WALL STREET JOURNAL.

LIFE | IDEAS | ESSAY

 \equiv

Learning to Love Intelligent Machines

Twenty years after famously losing to Deep Blue, chess champion Garry Kasparov says that it's time to embrace AI and its liberating potential



prattle.co

basistech.com





Evan Schnidman, CEO

evan@prattle.co 617.304.6807

Steve Cohen, COO

stevec@basistech.com 617.386.7102