Advanced Data Capture Solutions



Concepts of Semantic Search

RAF is a Worldwide leader in high speed

Data Capture and Management Solutions



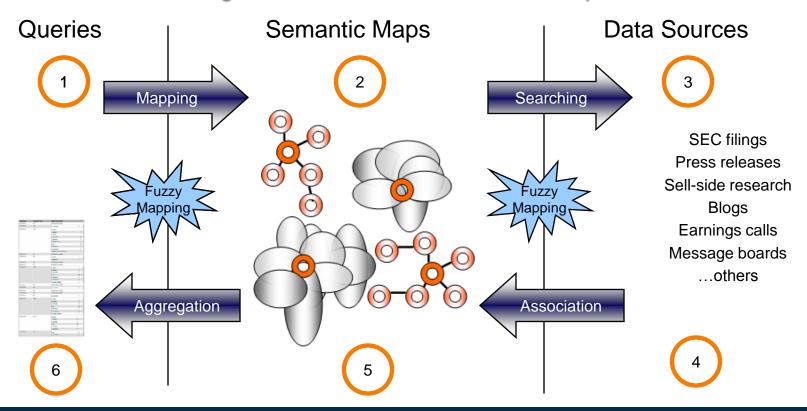


Semantic Engine Process



Innovative Approach: Process for Finding, Scrubbing and Quantifying Relevant Data

Our semantic search engine finds relevant data in text and quantifies it for later use.





Example...finding "Rising Margins"



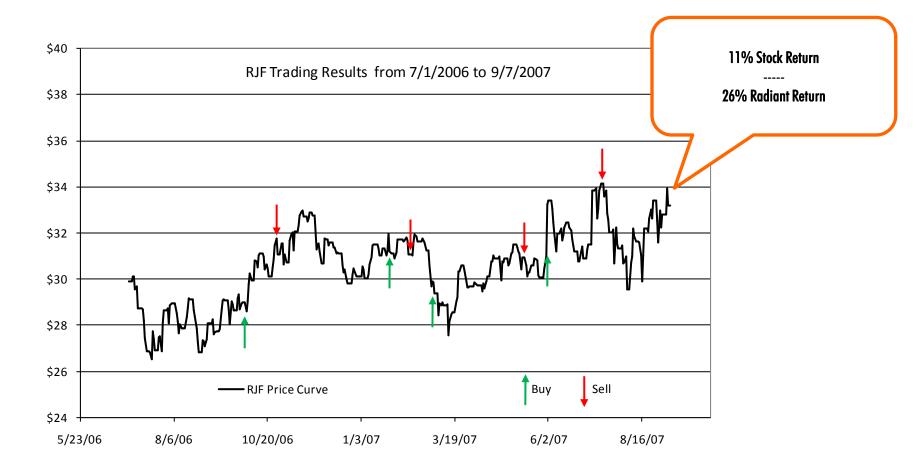
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It Works, Proven Results



Trading Example: Raymond James Financial (RJF)





Why We're Different



Our unique, systematic process gives us a unique analysis edge



Keyword Search

- Requires substantial prior knowledge of documents
- Inflexible
- No semantically equivalent expressions
- "False positives"

RAF Semantic Technology

- Statistical Natural Language Processing
- Concept-based
- Semantic mathematics
- Semantic maps
- Highly adaptive

Full Natural Language Processing

- Attempts true document understanding
- NLP understanding in its adolescence
- 10+ years out



Relevance Engine – What is it?

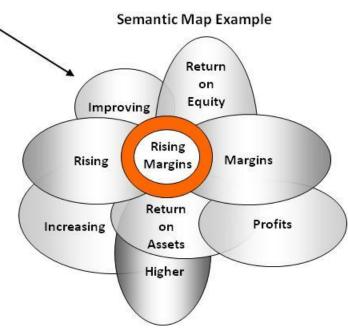


 Super fast java-based software that quantifies unstructured textual data

 Uses concepts and semantic maps, not just keywords, to find relevant, embedded data

find relevant, embedded data

 Produces proprietary factors by quantifying positive and negative sentiment





What it's Been Doing Since June 2006



- Identifying new data releases ¹
- Downloading files
- Resolving company identifiers (i.e. ticker, CUSIP, CIK...)
- Identifying relevant concepts ²
- Indexing concepts by ticker
- Extracting positive and negative sentiment indicators
- Quantifying results
- Producing factors

Notes:

¹Universe of the rolling Russell 1000 and most liquid stocks by SEC filings going back to 1993 when available — over 7,400 companies and 680,000 documents processed ² 10.6M + semantic "hits"





The edge derives from...



- ✓ Faster process
- ☑ Better analysis
- ☑ Original insight
- ☑ Proprietary information



We have a time advantage with our proprietary IP



☑ Faster process

- ☐ Better analysis
- ☐ Original insight
- ☐ Proprietary information

o In milliseconds we...

- Detect and acquire new data
- Extract and index semantics
- Analyze and quantify
- Make investment decision
- Trade





We have better analysis through our research process



- ☐ Faster process
- ☑ Better analysis
- □ Original insight
- ☐ Proprietary information

o Our conceptual, semantic approach is...

More comprehensive

More relevant

More accurate



- Our approach determines...
 - Data source utility
 - Information strength



Return

on Equity

Margins

Profits

Rising

Margins

Return

on

Assets

Higher



We have original insight with our non-traditional perspective



- ☐ Faster process
- ☐ Better analysis
- ☑ Original insight
- ☐ Proprietary information

- Novel approach...
 - Automatically read text
 - Interpret meaning
- Proprietary Market Signals
- Systematic approach combining...
 - Our fundamental research
 - Quantitative overlay





We create proprietary information



- ☐ Faster process
- ☐ Better analysis
- ☐ Original insight
- ☑ Proprietary information

- Our process and approach are different...
 - Not just "screen scraping"
 - Not just analyzing headlines
 - Not just pre-packaged data
- We transform data into actionable information
- We keep the information for our own edge



Where We're Going



Continuous research and innovation: we are not standing still...



- Technology extension
 - Semantically Improbable Phrases
 - Additional data sources
 - International adaptation

For More Information Please call us at 1 (425) 867-0700

