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The Voice of Semantic Web Business

“Why Semantics Matter: Demonstrating the Power of Semantic Technology in Financial Services”



Drew Warren, Recognos Financial
(dwarren@recognosfinancial.com)



Bryan Bell, Expert System
(bbell@expertsystem.net)

Semantic Intelligence

In the universe of knowledge
with linguistic intelligence

What is Semantic Intelligence and why it matters?

Bryan Bell

Vice President, Enterprise Solutions

bbell@expertsystem.net

224-357-8080



What is **semantic** intelligence?

Semantics is the science of the **meaning** that lies beneath words and an **understanding** of the **relationships** between words.



Why is a semantic network important?

...because language is too ambiguous.

Same word – Different meanings

Jaguar = car

jaguar = animal

Jaguars = football team

Different words – Same meaning

Disability Legislation = Equal Opportunity Law

Different words – Related meanings

Organization = company

Organization = trade union

Organization = charity



What is a semantic network?

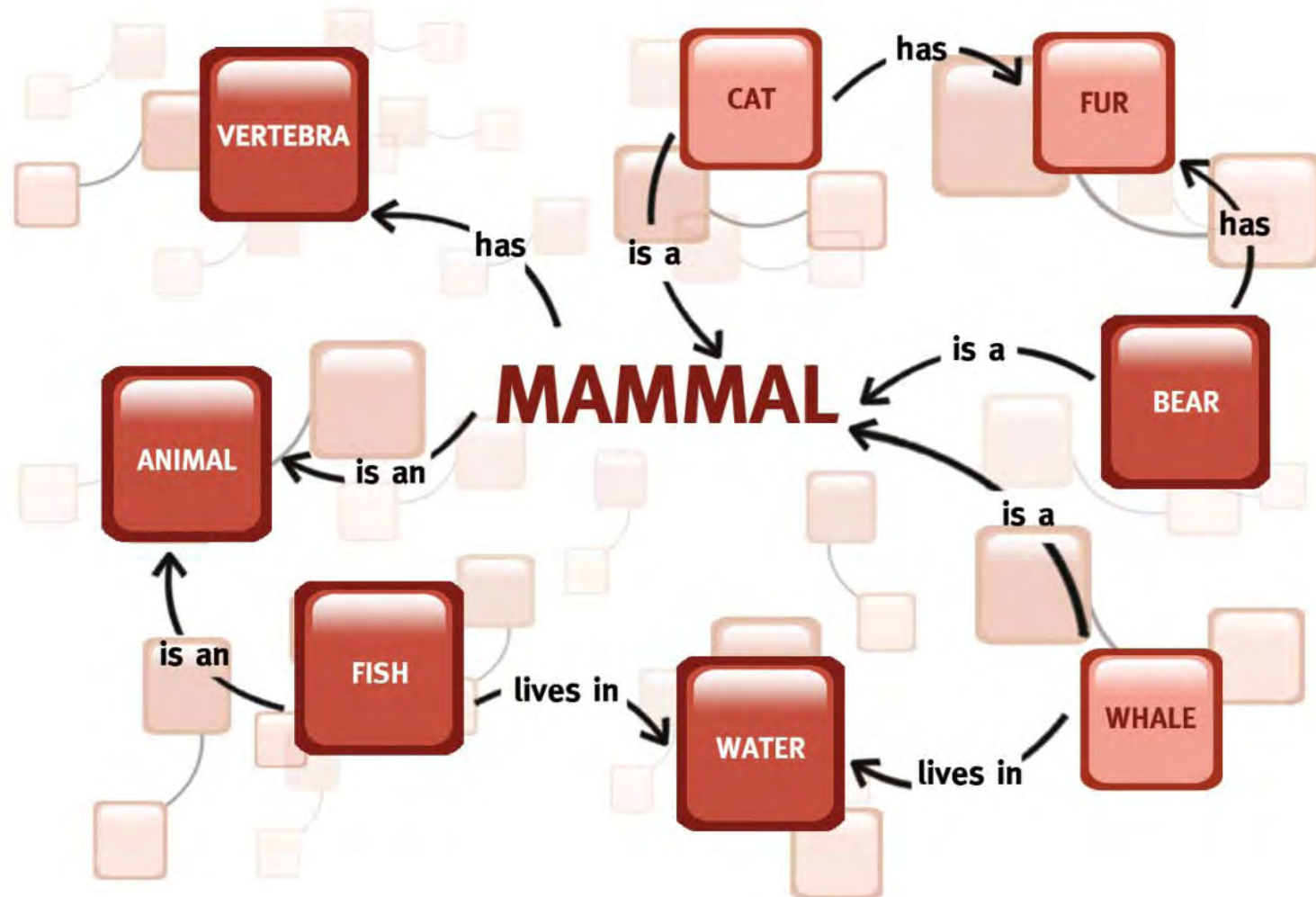
It is a complex map of associations and meanings of words:

- Includes all definitions of all words.
- Include relationships among all words.
- This enables both high precision & high recall.

The quality of results is directly related to the complexity and richness of the network.

-- and --

*The ability to **PROPERLY ANALYZE** words.*



What does **properly analyzed** mean?

| 4 Requirements | Definition | Example |
|---|--|---|
| Morphological Analysis | understand word forms | dog, dog-catcher, and doggy-bag are closely related |
| Grammatical Analysis | understand the parts of speech | " There are 40 rows in the table" uses rows as a noun, vs. " She rows 5 times a week " uses rows as a verb |
| Logical Analysis | understand how words relate to other words | " Davey Jones, represented by attorney Daniel Stanley, is married to Rebecca Carter ". Rebecca is married to Davey not Daniel. |
| Semantic Analysis (disambiguation) | understand the context of key words | " I used chicken broth for my soup stock " uses stock in the context of food, vs. " The company keeps lots of stock on hand " uses stock in the context of inventory. |

Why does a Semantic Platform excel?

The answer is in primary measures of
Information Management

#1 – Precision (a measure of exactness)

Retrieving a high level of accurate results
that are relevant to your search.

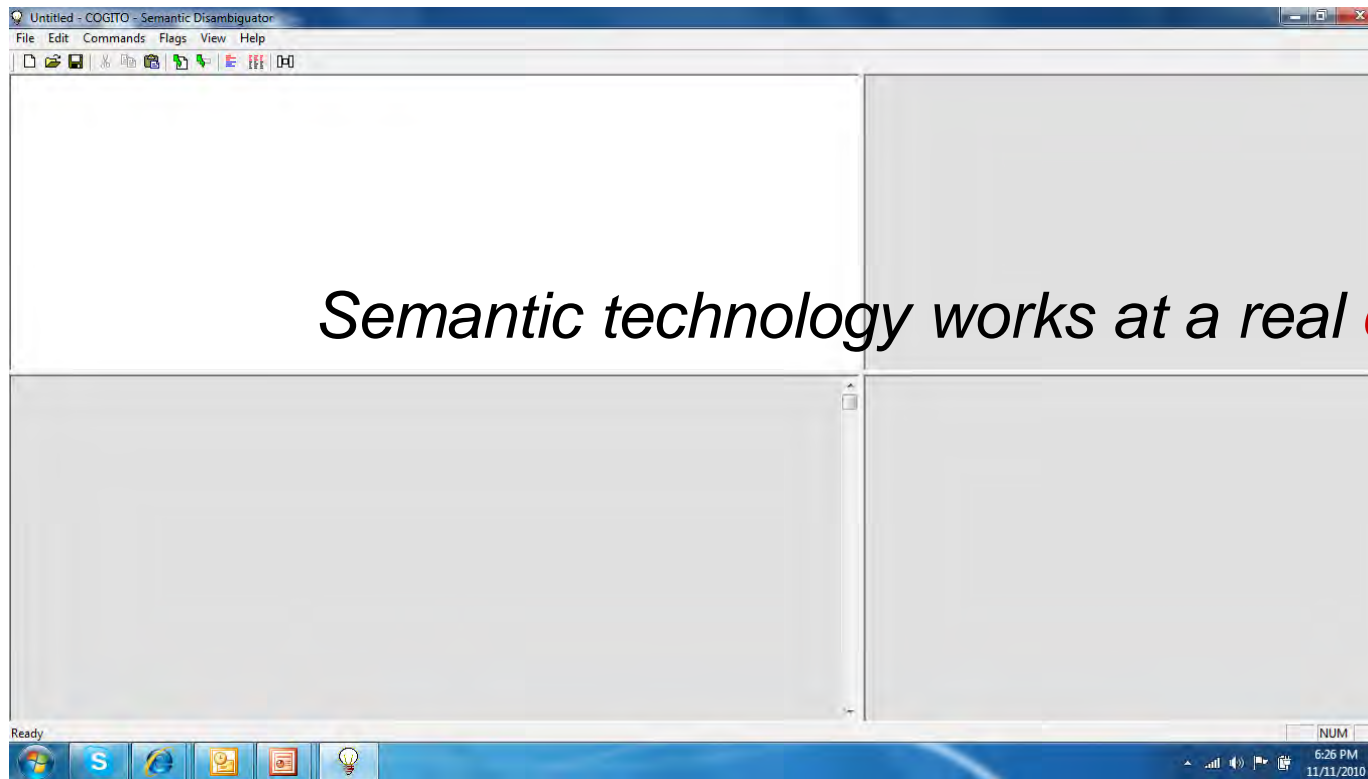
#2 – Recall (a measure of completeness)

Retrieving a high percentage of relevant documents.
Locating what applies.

*Keyword and math based technology
can achieve one but not both.*



Semantic Disambiguator demonstration



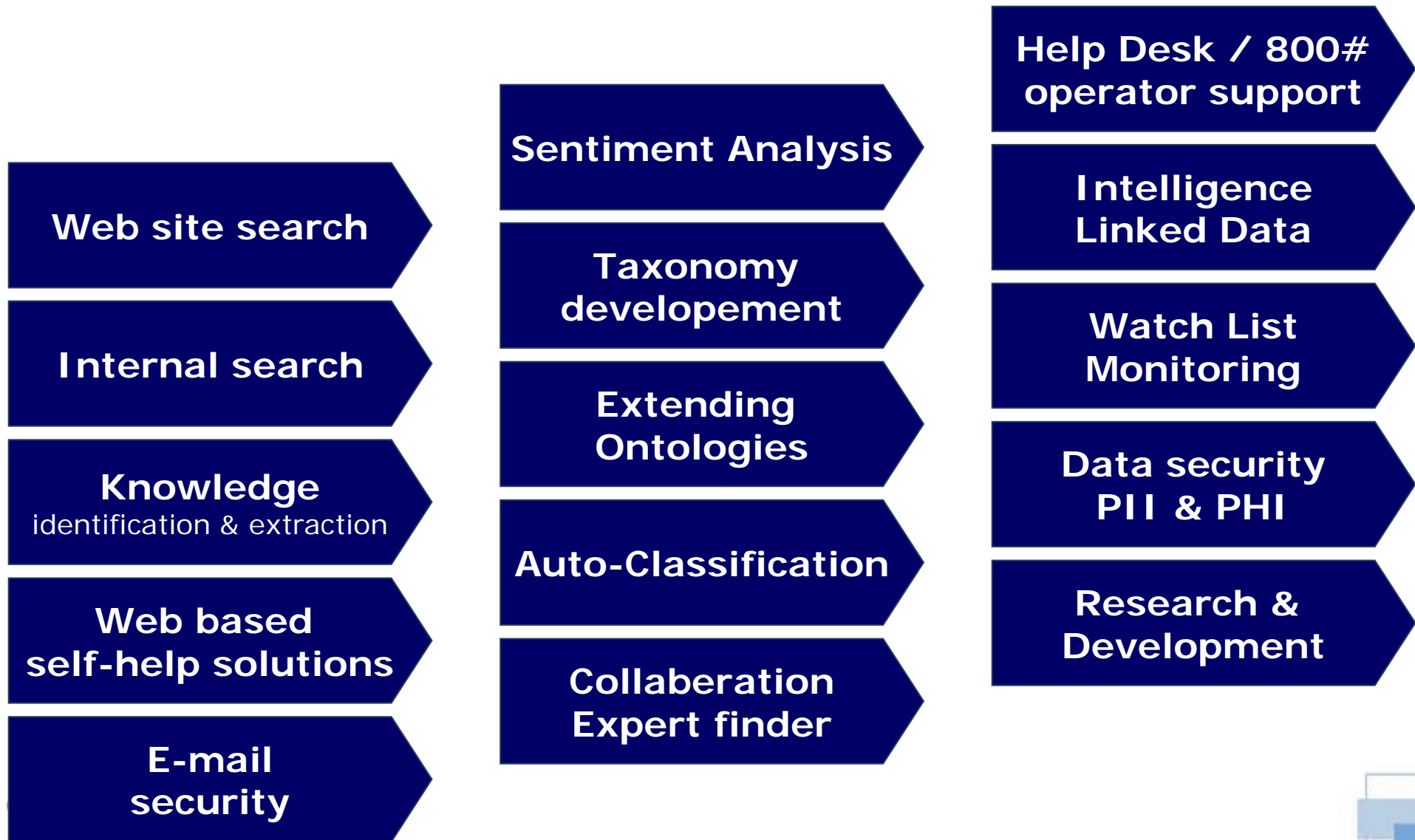
*Semantic technology works at a real **conceptual level.***

The semantic understanding of words **in context** is a primary key to success.



Application areas

Ways to leverage semantics in your organization.



Recognos Financial

and

Semantic Technologies

Semantic Technologies

Understanding of Concept and Context

1. Rock Band

Lead Guitar

Rhythm Guitar

Bass

Drums

Fresh Water Fish

Trout

Pike

Carp

Bass

2. Synonyms

Attorney - Esquire - Lawyer - Solicitor

3. News and/or Text in General

Currently Identify Key Words

Semantics Can Read and Interpret Article

4. W3C Mandate for Web 3.0

Semantic Technologies

BIG 3

Structuring Unstructured or Semi-Structured Data

EDGAR Documents
EMMA Documents
Loan Agreements
Loan Applications
Newswires
E-Mail
Faxes

Understanding Concepts and Context

Integrating Data Quickly and Non-invasively

Relational Databases
Hierarchical Databases
VSAM Files
Application Embedded Data
Data Warehouses
Spreadsheets

All Data in an organization is ALREADY in a Data Warehouse without the need for replication, normalization & synchronization.

Deep Data Mining and Learning - Inferencing

Identification of relationships and correlations between data segments/elements not previously identifiable

Reporting and consolidation of data from many sources for many uses.

Structuring Data

Mozilla Firefox browser window showing the Merrill Lynch website. The address bar displays: <http://www.recgnos.ro:8879/mfip2/Prospectus.aspx/Fund/ABAGX/InteractiveProspectus#>

Navigation menu: Home | Confirm Demo | **Filings** | Data | Statistics | Contact Us

Secondary navigation: BACK TO FILINGS | SUMMARY | PROSPECTUS | SAI | REPORTS » | ADDITIONAL » | SUMMARY FEES | DOWNLOAD

Page Title: ALLIANCEBERNSTEIN GLOBAL VALUE FUND / Class A (ABAGX - 018912105)
Alliance Bernstein

Contents

- Return After Taxes On Distributions And Sale Of Fund Shares Year 10
- Risk Return Summary IRP**
- Investments
 - Investment Strategies
 - Investment Objectives And Goals
- Summary Fees**
- Shareholder Fees
 - Maximum Sales Charge On Purchases**
 - Maximum Deferred Sales Charge
 - Maximum Sales Charge On Reinvested Dividends
 - Redemption Fee
 - Exchange Fee
 - Maximum Account Fee
- Annual Fund Operating Expenses
 - Management Fees
 - Investment Advisory Fee
 - Fund Performance Related Fees
 - Other Management Fees

Statutory Prospectus

SHAREHOLDER FEES (fees paid directly from your investment)

| | Class A Shares | Class B Shares | Class C Shares | Advisor Class Shares |
|---|----------------|----------------|----------------|----------------------|
| Maximum Sales Charge (Load) Imposed on Purchases (as a percentage of offering price) | 4.25%(a) | None | None | None |
| Maximum Deferred Sales Charge (Load) (as a percentage of offering price or redemption proceeds, whichever is lower) | None(a) | 4.00%*(a) | 1.00%** (a) | None |
| Exchange Fee | None | None | None | None |

(a) Class A sales charges may be reduced or eliminated in certain circumstances, typically for large purchases. In some cases, however, a 1%, 1-year contingent deferred sales charge, or CDSC, may apply. CDSCs for Class A, Class B, and Class C shares may also be subject to waiver in certain circumstances. See "Investing in the Funds--CDSC Waivers and Other Programs" in this Prospectus and "Purchase of Shares" in each Fund's Statement of Additional Information, or SAI.

Windows taskbar at the bottom shows the time 3:53 PM on 10/21/2010.

Ask Questions of a Document

FAQs for each document type are defined by the user, free form questions also supported

The screenshot shows a Mozilla Firefox browser window displaying a document viewer. The browser's address bar shows the URL <http://www.recognos.ro:8882/doca/#>. The page title is "Document Expert". The main content area displays a document titled "XCITEK EMPLOYEES 401(K) PROFIT SHARING PLAN SUMMARY PLAN DESCRIPTION". The document content includes the question "Will the Employer contribute to the Plan?" and a list of contributions: (a) salary reduction deferral, (b) a matching contribution equal to 50% of the salary reduction (highlighted in green), (c) a qualified non-elective contribution, and (d) a discretionary profit sharing contribution. A sidebar on the left contains a "Document Advisor" header, a "Selected Document" section, and a "FAQ" section with several questions. The bottom of the browser shows the Windows taskbar with various application icons and the system clock indicating 3:55 PM on 10/21/2010.

Document Expert - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.recognos.ro:8882/doca/#

Document Expert

Document Advisor

Document Advisor

Selected Document

XCITEK EMPLOYEES 401(K) PROFIT SHARING PLAN SUMMARY PLAN DESCRIPTION

Document Navigation

FAQ

Is the qualified military service considered service with the company?

Which is the minimum age for distributions?

What is the matching contributions for the company?

Which is the minimum hours of service for a Plan Year?

Which is the normal retirement age?

Which is the vested schedule?

Which is the minimal age for pre-retirement distribution?

Can I withdraw money for medical expenses?

Which is the rate of interest for a loan received from the Plan?

My Questions

Search

TagCloud Search

Will the Employer contribute to the Plan?

Each year, we will contribute to the Plan the following amounts:

(a) The total amount of the salary reduction you elected to defer. (See the question in this Article entitled tHow much may I contribute to the Plan?")

(b) A matching contribution equal to 50% of the amount of the salary reduction you elected to defer.

In applying this matching percentage, however, only salary deferrals up to 4% of your annual compensation will be considered.

You will share in this matching contribution if you are actively employed during the Plan Year.

(c) On behalf of each participant, we will make a qualified non-elective contribution equal to a uniform percentage of your compensation, which percentage will be determined each year by the Employer.

You must complete a Year of Service during the Plan Year and be actively employed on the last day of the Plan Year to share in this qualified non-elective contribution.

(d) A discretionary profit sharing contribution.

You must complete a Year of Service during the Plan Year and be actively employed on the last day of the Plan Year to share in this discretionary profit sharing contribution.

You will have completed a Year of Service for purposes of sharing in our contributions if

Done

3:55 PM
10/21/2010

Contact Information
Drew Warren

Recognos Financial

5 Hanover Sq 14th Fl

New York, NY 10004

212 785-5200 ext. 378 (office)

646 895-1467 (cell)

dwarren@recognosfinancial.com

www.recognosfinancial.com