

## Janya Overview

Janya is a language technology company providing solutions for information discovery from unstructured and semi-structured text. Janya's evolutionary data analytics technology goes beyond simple entity extraction to identify and maintain relationships among content elements, providing actionable information and an evidence trail that creates confidence for users that relationships are accurately defined.

Focused on government markets, Janya has the security clearances government customers require, and also provides tools that can be used internally by government analysts without interference. Highly responsive to customer needs and constraints, Janya partners with our customers and systems integrators to deliver customized solutions tailored to the specific requirements of each project and to meet our customers' goals. Janya's products are sold through direct sales and via resellers and systems integrators.

## Information Discovery via Semantex™

Janya's primary product, Semantex™, is a complete information extraction system that supports the automatic or semi-automatic analysis of large volumes of electronic information in order to detect entities, attributes, relationships and events. After nearly a decade of development and integration, Semantex uses a hybrid technology model for information extraction that identifies more relationships and connections between entities because it combines and uses the best aspects of machine learning, lexical look-up and syntactical rule-based technologies. This combined machine learning and natural language processing approach achieves better results than any of the techniques could individually because it leverages the strengths of each of these approaches.

Semantex is modular, scalable and portable to various domains. The engine has been used to power both commercial and government intelligence applications and is proven in the modeling of marketing data and brand perceptions, having processed millions of documents since 2003. Using a distributed architecture, its performance increases on a nearly linear scale and can readily achieve the throughput necessary for high-volume environments typically encountered in data-intensive government applications. The XML output reflects the rich features assigned to elements of the text based on syntactic and semantic knowledge.

Semantex can incorporate an information discovery capability into larger deployed information systems in both unclassified and classified environments. Through integration with existing search technology and tools for structured data analysis, Janya's solutions enable users to distill information and increase their effective bandwidth to monitor and analyze both unstructured and structured data streams.

## Benefits of the Semantex System

### Information Discovery

- Profiles allow tracking of associated information
- Quickly identifies obscure or hidden relationships
- Merged profiles span multiple documents and maintain original document connections

### Time Savings

- Reduces time to evaluate critical information
- Increases productivity of key personnel
- Integrates easily/quickly with existing systems

### Tight Integration with Search

- Works with any search engine index
- Combine keyword search with text analytics

### Domain Customization

- Optimizes extraction of relevant information
- Rapidly adapts to changing circumstances
- Allows for plug-in dictionaries, key words, industry lexicons or other data

### System Productivity

- Distributed architecture increases throughput
- Scalable architecture grows with increasing volume requirements

### Supports a Variety of Data Sources & Formats

- FBIS, USMTF, HUMINT, Dialog, Lexis-Nexis, Factiva, etc.

## Features and Differentiators of Semantex

### Profiles

- One profile for each unique entity identified
- Consolidates all information related to an entity

### Events

- Detailed extraction of events, including participants, actions and details
- Resolves extracted data into standard date/time
- Provides location disambiguation and geo-coding

### Hybrid Processing Model

- Uses the most appropriate technology at each processing stage
- Provides best quality results by minimizing compounding variances

### Flexibility

#### Customizability

- Configurable architecture and customization tools simplify domain porting
- Non-linguists can customize text analytics capabilities

#### Scalability

- Designed from the beginning as a distributed solution
- Individual processing modules can be configured differently

## Services

Great solutions are only part of the answer to real world extraction problems. In addition to cutting-edge extraction capability, Janya provides a wide range of services to ensure that our solutions fit the needs of our clients.

### Application Customization

Semantex was developed with an easily adaptable modular architecture, and Janya provides application customization services to ensure that our products fit seamlessly into our customer's existing systems. Semantex can be adapted to handle the input document formats, output needs and specialized extraction workflows of our clients.

### Domain Customization

Janya offers customization services that leverage the same domain experts and trained linguists who develop the core NLP modules to tailor results to your domain or specific taxonomies/ontologies. Customization efforts typically involve novel entity type definitions, domain-specific name recognition, event ontology creation and new attribute and relation mapping. Domain customization can be done in-house or on-site as necessary.

### Training

Janya provides training and instructional sessions to individuals or groups of users to maximize effectiveness and use of Semantex™ and the Semantex Workbench™. Training focuses on customization, configuration and maximizing the results from our solutions on your data.

## Corporate Information

Corporate Headquarters	Amherst, NY
Offices	Washington, DC
Founded	2005
Corporate Structure	Privately-held
	Dr. Rohini Srihari, CEO
Website	<a href="http://www.janyainc.com">www.janyainc.com</a>
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