# NamesforLife 🌰
*Bringing Meaning to Life*

# About N4L

Our company has developed several innovative software components to overcome technical barriers in text mining, information extraction, document classification and annotation.

We have developed powerful grammars that are able to precisely identify complex terms such as chemical entities, scientific names and many classes of unique identifiers.

A KWIC index (see reverse) provides a view the context of any phrase across all documents in a corpus.

N4L::Scribe is a powerful document annotation service that can locate important phrases in documents (e.g., Microsoft Word, XML) and embed semantic links to third party resources. This service can also enrich documents with glossaries and summaries of resources (e.g., gene sequences), giving additional insight for readers and examiners. Custom terminologies can be added to extend the capabilities of this software.

Our unique visualization tools can help to quickly locate the diagnostic terms for groups of related documents, which can greatly expedite the patent examination process and assist with IP valuation.

Our classification tools provide novel ways to navigate and bridge various patent classification systems, enabling more precise classification and integration with additional proprietary classifications.

These individual software components have been integrated into a single platform that can support a variety of document analysis needs. Our software may be deployed in a web service container, as a desktop application, or extended/integrated with third party software via our developer API.

Backed by the Fairview Research Alexandria platform (CLAIMS® Global Patent Database), this analysis suite has access to the full text of the worldwide patent literature.

The Semantic Desktop (see reverse) is a document classification application built upon this platform. We demonstrate the ability to reverse-engineer the diagnostic phrases that human indexers use to classify large corpora of technical documents, and to measure both the quality of previously-annotated documents and the cohesion of individual document classifications.

**NamesforLife, LLC is a Michigan based software company that has pioneered semiotic classification methods and semantic annotation technology for the life science, technical and medical literature.**

**The company provides taxonomic and analytical services, data, software and technology licensing for the academic publishing industry, life sciences research, commercial partners and federal laboratories.**

**Our technology arose from a need to support thesaurus construction, vocabulary integration and ontology development. As a result, we have created bridges between document analytics and important industry standards for knowledge representation.**

**Our patented technology produces high-quality data sets from scientific, medical and legal literature via its partnerships with the academic publishers, and Fairview Research, LLC.**

NamesforLife semiotic classification and semantic annotation technology are covered by patents US 7,925,444, US 8,036,997 and US 8,903,825. Other US and PCT patents pending.

CLAIMS® is a registered trademark of IFI CLAIMS Patent Services.

# N4L Semantic Analysis Platform

## Patent Databases

CLAIMS® Global Patent Database

## Classification Standards

USPC   CPC   IPC   ECLA

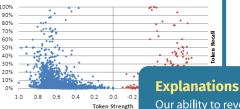## Content

Documents (XML, Word, ODF)

## N4L PLATFORM

### Enrich Documents

The N4L::Scribe annotation tool enriches documents with related information and embeds semantic links to additional resources.

### Visualization

Multidimensional analysis of language used in groups of documents provides a means to visualize the precision of manually classified documents.
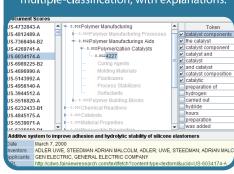
### Taxomatic

Our self-organizing heatmap component clusters documents based on semantic (term) and semiotic (concept) similarity.
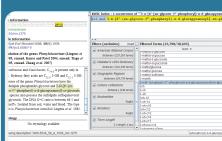
### Entity Recognition

Our custom grammars accurately recognize complex entities in text, such as chemical compounds, scientific names and specialized identifiers, which can then be linked to appropriate resources or used for indexing, query or thesaurus construction.

### Semantic Similarity

A semantic similarity measure provides a consistent way to compare documents.

### Explanations

Our ability to reverse-engineer human classifications enables automatic multiple-classification, with explanations.

### Diagnostic Terms

Our analysis tools can extract and chart the diagnostic terms for groups of documents.