

InterSystems iKnow Technology

InterSystems iKnow technology allows you to analyze and index text and other unstructured data types, identifying important knowledge, concepts, and relationships. Unlike most other semantic and search technologies, iKnow will automatically indicate the most interesting meaningful elements in the data without needing any input from the user, not even a search term.



■ Smart Indexing

Smart indexing analyzes and transforms unstructured text into an understandable network of relationships and concepts without any need for pre-defined dictionaries, taxonomies, or ontologies. Smart indexing provides insight into what's relevant, what's related, and what's representative within large volumes of unstructured text, without needing input of a search term.

Smart indexing works with a number of different languages. It can also identify concepts (recurring patterns) within unstructured data that is not traditional text.

■ Smart Matching

Smart matching links the results of smart indexing to existing knowledge specific to a domain, organization, or industry. Matching is based on meaningful concepts and their combinations, not just words, and includes exact, partial, and “scattered” matches.

■ Smart Interpretation

Smart interpretation applies analytics and/or business rules to the results derived from smart indexing and smart matching. (May require use of InterSystems Ensemble- or InterSystems DeepSee.)

How Smart Indexing Works

Split text into sentences:

iKnow enables breakthrough applications by removing the barriers to knowledge.

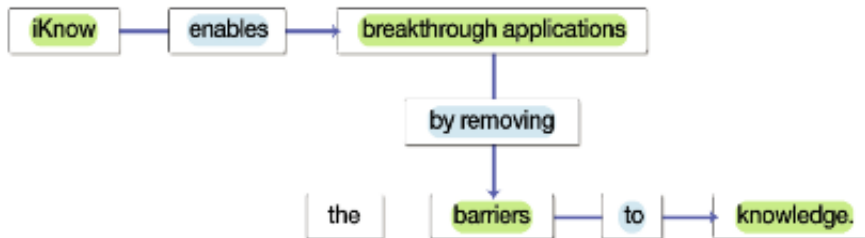
Identify relations (often, but not always, verbs and prepositions):

iKnow enables breakthrough applications by removing the barriers to knowledge.

Relations naturally separate meaningful concepts:

iKnow enables breakthrough applications by removing the barriers to knowledge.

Find patterns (for example, concept-relation-concept groups):



The Caché Advantage

Built-in Capabilities for Analyzing and Indexing Unstructured Data:

InterSystems iKnow technology is built into Caché. You can access all your data – structured and unstructured – without resorting to third-party solutions or tools.

Minimal Up-front Work:

Unlike other semantic search tools, InterSystems iKnow technology can find concepts and relationships **without having them pre-defined**. Users don't necessarily need to know what they are looking for before they look for it.

Multilingual:

InterSystems iKnow technology works with multiple languages, even if languages are mixed within a document.

Multipurpose:

InterSystems iKnow technology can be used to solve different kinds of problems: Identifying the most interesting elements in a huge pile of documents, automatically routing information based on its similarity to other information, summarizing large amounts of text into comprehensive summaries, etc.