Live Categorization using SIRA

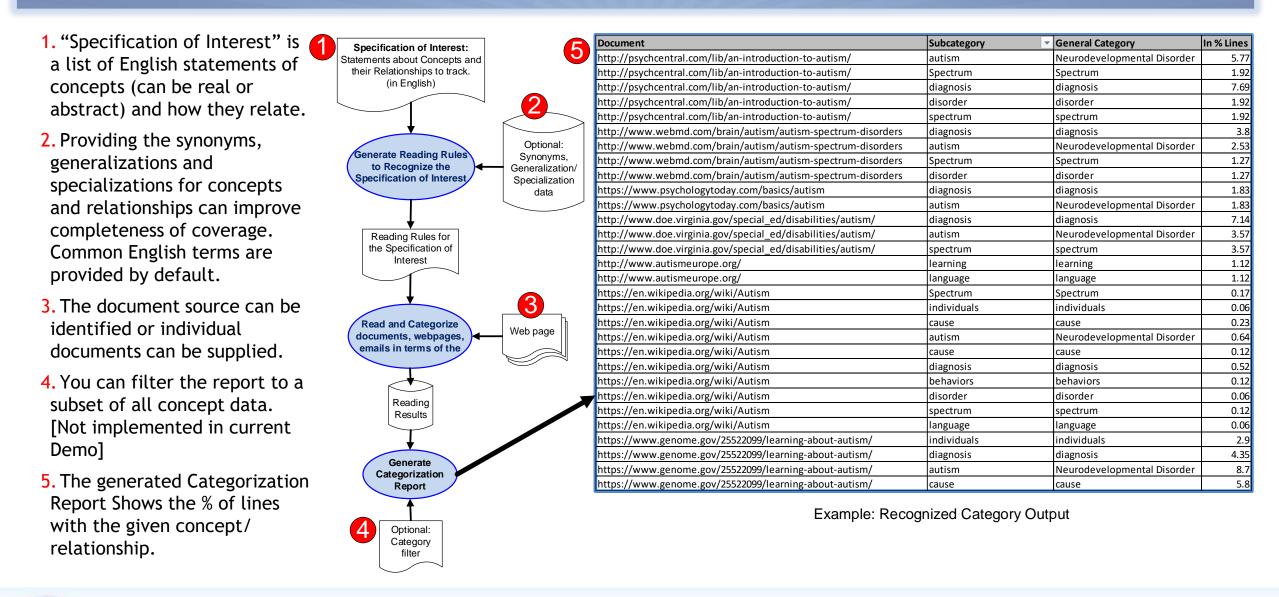
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The SIRA Approach

- SIRA identifies the variety of language patterns and terms in a sentence, and maps them to the concepts and relationships they represent.
- Starting with a statement of investigation (in natural language), SIRA generates a high-speed "reader program" that can recognize all the ways and terms the investigation's concepts and relationships could be expressed.
- Then, given a corpus of natural language text, SIRA applies this "reader program" to "read" every sentence, looking for the variety of language patterns and terms that can represent the concepts and relationships expressed in the investigation. All matching information is returned for further processing.
- SIRA verifies the returned information (linguistically and semantically) for relevance to the investigation.
- The results can then be rendered in a variety of useful ways.

Categorization Example



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What makes SIRA Unique / Different

- Allows for Non-statistical Natural Language Processing (NLP)
- Ultra-high-speed "reader" Each investigation is
- [Domain-specific] Ontology and Dictionary are directly used in Natural Language Understanding (NLU)
- Automated and semi-automated growth of the Ontology and Dictionary
- No pre-indexing the corpus
- SIRA is not a keyword search engine or anything like it.
 - "Search" is at the "Semantic" level not the "term level"
- SIRA can find semantically relevant information even when it doesn't resemble the terms or sentence structure in your investigation.