EXISTING CAPABILITIES:

(Non-exhaustive) List of the Capabilities of the FRDCSA via internal and external packages

KEY:
(#system)   -> not fully implemented
(%system)   -> partially performs capability
(!system)   -> integrated but not available due to   licensing
()   -> no system implements this   capability yet

Misc
Multi-agent system (UniLang)
Self-directed goal setting (Architect)

Natural Language Processing
Question Answering (QUAC/OpenEphyra/Aranea/
%TextMine/AnswerBus)
Machine Translation (Apertium|Google)
Query Expansion (lucqe)
Recognizing Textual Entailment
(#FreeRTE/CAndC/#Stanford-RTE)
Natural Language to Logic (CELT/#Formalize/!
ResearchCyc/%APE)
Controlled Language (APE|ACEWiki)
Shallow Parsing (Assert|#Shalamaneser)
Sentiment Analysis (OpinionFinder)
Anaphora Resolution (JavaRAP|#BART)
Sentence Similarity (%Meteor|%Stanford-RTE)
Text Clustering
(AI::Categorizer/Rival::AI::Categorizer/
PerlLib::Cluster/crossbow/OSKM/)
TFIDF (PerlLib)
Topic Gisting (ConceptNet)
Affective Analysis (ConceptNet)
Word Sense Disambiguation (SenseRelate)
Named Entity Recognition
(Cage/CAndC/NamedEntity/OpenNLP/Simple/
Stanford/TagEn/TextMine)

Tokenization (treebank/TextMine)
Grammar Checking (LinkGrammar)
Summarization (ConceptNet/MEAD)
Parsing
(Charniak/Lingua::EN::Tagger/LinkGrammar)
Predicate Parsing (%Assert/Enju)
Abbreviation Extraction
Body Text Extraction (BTE)
Concept Extraction (#TMT)
Date Extraction (TempEx)
Definitional Extraction ()
Fact Extraction (#fact-extraction/%Assert)
Information Extraction (T-
Rex/MinorThird/Elie/#MDR/#AIE)
Logic Form Extraction (FreeLogicForm/CAndC)
Temporal Ordering Extraction (TARSQI)
Terminology Extraction (TermEx)
Semantic Annotation (OpenCalais)
Topic Detection and Tracking ()
Definitional Question Answering ()
Bad Word Lists ()
Word Connotation (EAT)
Rhyming (rhyme)

HTML Processing
Event Extraction (%GeekEventAggregator)
URI Extraction
(WWW::Mechanize/PerlLib::URIExtractor)

AI/Knowledge Representation
Knowledge Based System (#FreeKBS/OpenCYC/#
%Sayer)

Studying
Digital Library (DigiLib/Greenstone/#DSpace)
Intelligent Tutoring System (CLEAR/#SystemX)

Humanitarian/Life Support
Task Management (#Manager Todo/#PSE)