

[Icarus Features]

In addition to the language tools found in the Stanford Core NLP package, the RiTa Wordnet library, and the SimpleNLG api, several additional features arise.

Current:

* Basic Sentence Transposition: [You were eating -> I was eating]
* Basic Sentiment Analysis: [Very positive, positive, neutral, negative, very negative]
* Self knowledge: [Name, age, location, interests, mood, family, history, etc]
* Sentence Type Detection: [Interrogatory, Exclamatory, Declarative, Imperative]
* Question Type Detection: [Who, What, When, Where, Why, How, Which]
* Named Entity Recognition & Questions: [Who is <human>? Where is <Organization>?]
* Delta Root Detection: [The change of sentence roots during the conversation]
* Total Conversation Mood: [Adding the moods of the previous sentences up]
* Basic Self Question Answering: [What is your name? What is your age?]
* Negation Detection: [You are not cute -> Not refers to cute]
* Basic Sentence Focus: [I am happy -> So this is about you?]

Next:

* Fragment Detection: [Incomplete sentences must be handled]
* Profanity Detection: [Creative responses to feeble human statements]
* Repetition Detection: [Prevents user or machine to repeat statements within n]
* Hypernyms, Holonyms, Synonyms & Antonyms: [Fuzzy channeling & unpredictability]
* Entity Building: [Uses syntax to add references to Foci]
* Backwards References: [The system uses Deltas to find references to Foci]
* Aggressive Questions: [The system asks questions it expects answers to]
* Aggressive Declarations: [The system makes statements it expects replies to]
* Lies: [When in doubt, the system provides stories to answer questions]
* Copycat Conversation Style: [If you ask questions, the system will do the same]
* Conversation Rules: [Guidelines for the best possible responses]
* Sentiment Countering: [Reply with positive sentiment for user’s negative sentiment]

Improvements:

* Better Transposition: [Avoid sentence mangling by checking syntax first before swapping verb modifiers.]
* Better QA: [Use synonyms and hypernyms to broaden the input for associated answers.
* Better Self: [Provide in-depth knowledge for the computer to answer questions on]
* Better Answers: [Provide a multitude of answers, rather than one, for the given keyword.]
* Debugging through Object Data prints