

Activity: Exploring Cyc

1. Rescope your application from last time.
 - a. Last time, we searched for the ontology behind the Discography for a musician. We used a Music Ontology, consisting of artists, albums, performances, and arrangements.
2. What concepts & facts do you need in order to explore this domain?
 - a. Artist information (performer & composer)
 - b. Album information (incl. cover art, songs, release time & place, publisher?)
 - c. Sales information
3. What concepts and facts are available in Cyc?
 - a. **DiscographyFn** takes in 1 argument (FunctionOrFunctionalPredicate) and provides the Agent- Generic and collection of catalogues & discographies.
 - b. **Album-CW**
 - c. **Artist** is a specialization of a person who produces or performs works of art
 - d. **AlbumCoverArtwork** is a Graphic-VisualIBT (graphic art) designed to appear on the cover of the packaging of a music album.
 - e. **Song-CW** is a musical piece.
 - f. **performerOfRecordedMusicalCW** is a relation that relates the musical performer to the audio conceptual work recorded.
 - g. **AudioConceptualWork** is a collection of the audio, a specialization of ConceptualWork.
 - h. **composerOfMusicalCW** is a relation between an agent and a conceptual work.
4. How are they organized?
 - a. There are multiple hierarchies connecting this work together. Very generally, for example, **AudioConceptualWork** is a specialization of ConceptualWork, and **Artist-Performer** for example is a `genls` of Artist & Entertainer.
 - b. Organization is further mentioned at the very bottom.
5. What's missing?
 - a. **Release Date/Time** could not be found in the database.
 - b. **Publisher** was found, but it was too general to suggest something to do with discography. We didn't have enough time to keep searching.
 - c. **Place/Location** was not found for where the piece could have taken place.
6. What are the pros and cons of using Cyc vs the ontology you looked at on Thursday?
 - a. Unlike the ontology database we looked through last class, Cyc is incredibly, formally organized with the correct syntax to use and a much, much larger knowledge base connecting hierarchies. It was very difficult to understand what the `domain` and tags were for each ontology we found in the first database. Cons of Cyc.. while it's not present in the first ontology database either, there's not way to search for something other than the search bar itself. For example, there are no visualizations or sorting such as a related common-use phrases.