Views Controlled Vocabularies (VCV) Task Group
Zoom meeting
2021-01-20 15:00 UTC

Attending: Steve Baskauf, Matthew Nielsen, Jennifer Girón, Donat Agosti, Neil Cobb, Paula Zermoglio
Regrets: Randy Singer

Meeting notes:
Notes added during the meeting and from the chat are in red.

I. Description of design pattern
    A. Review of SKOS, JSON-LD, and TDWG controlled vocabularies
    B. Imagine cascading dropdowns
        1. Select organism group
        2. Select subjectPart from collection for that group
        3. From corresponding subjectOrientation collection for that part, select subjectOrientation
        4. Full view description is the controlled values for subjectPart and subjectOrientation
    C. The script that transforms the CSV files at GitHub into JSON-LD is at
        https://github.com/tdwg/ac/blob/master/views/code/build-views-json-ld.ipynb
    D. category collection -> subjectPart concepts from subjectPart concept scheme
        1. flies -> head, wing, leg
        2. within the subjectParts, they could be related hierarchically using skos:broader (like 2nd tarsal segment skos:broader leg)
        3. CSV table
            https://github.com/tdwg/ac/blob/master/views/code/skos_collections.csv
            https://github.com/tdwg/ac/blob/master/views/code/subjectPart.csv
        4. JSON-LD
            https://github.com/tdwg/ac/blob/master/views/code/subjectPart.json
    E. subjectOrientation
        1. https://github.com/tdwg/ac/blob/master/views/code/subjectOrientation.csv
        2. https://github.com/tdwg/ac/blob/master/views/code/subjectOrientation.json
    F. a subjectPart collection per subjectPart concept (same local name, different namespace) -> subjectOrientation concept
        1. e.g. head -> anterior, dorsal
        2. csv
            https://github.com/tdwg/ac/blob/master/views/code/part_collection_join.csv
        3. json
            https://github.com/tdwg/ac/blob/master/views/code/views_collections.json

II. Test images in the Google Drive
   A. https://drive.google.com/drive/folders/1bnQdxa6ya87hQQ5OlzjVFixuvEjOG-L7?usp=sharing
   B. Will the subjectPart and subjectOrientations for flies above work with these images? Are they too specific? Not specific enough? What about those distal abdominal images? Leg images?
   C. Can we try them on other image sets? Can developers use them? How?
III. Discussion notes:
Notes: hymenoptera ontology for insect morphology can be used for part definitions
General discussion of how our terms relate to existing ontologies and if we should link them.
Jennifer Girón had good suggestions for what ontologies to use for our terms:
Biological Spatial Ontology (BSPO) http://www.obofoundry.org/ontology/bspo.html (here is the ontology owl file); ontology terms can be searched at https://www.ebi.ac.uk/ols/ontologies/bspo
Uberon is an integrated cross-species anatomy ontology (although heavily vertebrate biased) https://www.ebi.ac.uk/ols/ontologies/uberon
Hymenoptera Anatomy Ontology (HAO) https://www.ebi.ac.uk/ols/ontologies/hao (generalized terms and definitions for insects can be found here)

IV. Action items. Several people will try to acquire more images of different organism groups and fill in the relevant spreadsheets on the Google Drive.
   - Steve - plants, fish check out https://zenodo.org/communities/biosyslit/search?page=1&size=20 (search there, and if you include the images from there and keep the deposit number we then could update the metadata with our terms as custom metadata
   - Donat - bat, Fabricius insect types, ants
   - Jennifer - beetles, Leo Smith KU for fishes
   - Plenty of images at https://ocellus.info/images.html?
V. Next meeting time: Wednesday, February 24 16:00 UTC