Short description

Converts the .xlsx files created by the BORIS export into csv files required by BOVIDS. In such an xlsx-file it is possible to have multiple individuals (subjects) and a list of behaviors (actions) exceeding those of BOVIDS. The file will map those behaviors accordingly.

Requirements

- packages: numpy, openpyxl
- data structure
    - BORIS export „observation list" should be saved at
    *…/Auswertung/species/zoo/Auswertung/Boris_KI/Boris-Dateien/YYYY-MM-DD_species_zoo_ *.xlsx* (* indicating: arbitrary, no special characters!)
    - Create a folder in which the output files can be stored
    …/Auswertung/species/zoo/Auswertung/Boris_KI/csv-Dateien/

Step 1 – open spyder:

- Terminal / Shell:
    - conda activate bovids
    - spyder

Step 2 – adjust parameters

- INPUT_FOLDER = path containing the observation lists in above's structure [string]
    - E.g.: "U:/ Auswertung/Wildebeest/FancyZoo/Boris_KI/Boris-Dateien/"
- OUTPUT_FOLDER = output destination (see above's structure) [string]
    - E.g.:   "U:/Auswertung/Wildebeest/FancyZoo/Auswertung/Boris_KI/csv-Dateien/"
- INDIVIDUAL_NUMBERS = Dictionary such that each key refers to a subject (individual) in the observation list. Value is the corresponding individual number (the identifier). [dictionary]
    - Bsp: INDIVIDUAL_NUMBERS = {
        'Wildebeest_Olly': 1,
        'Wildebeest_Romy': 5}
- BEHAVIOR_MAPPING = Dictionary such that each key is an action of the observation list. Values are numbers (0 standing, 1 LHU, 2 LHD, 3 Out – additional keys are possible here but cannot be further used without code changes!). [dictionary]

         o   Bsp: BEHAVIOR_MAPPING = {

                "Standing": 0,

                "Running": 0,

                "Lying": 1,

                "Sleeping": 2,

                "Out": 3

                }

- BEHAVIOR_CODES: Dictionary mapping the behavior codes to names. [dictionary],

- INTERVAL_LENGTH: How many seconds are one time-interval? BOVIDS is adjusted for a choice of 7 here, larger numbers would probably work in the whole system, smaller numbers require (easy) code adjusting. [integer]

- EXTENSION: Will be part of the file name and will be required by BOVIDS in its standard form. [string]

- TIME_COL = "A"; SUBJECT_COL = "E"; BEHAVIOR_COL = "F"; ACTION_COL = "I" = Col-Indices of the observation list. If BORIS 7.7.3 is used as suggested, those parameters can be ignored.

Step 3 – run the file

- The script starts automatically to process the data as soon as it is run.