

# Coati ACC Pipeline- README

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## 1 Coati\_ACC\_Pipeline

Predicts behavioural states from coati accelerometer data, among other things.

The following directory and file structure is needed for this program to run:

```
...  
PROJECTROOT/  
  code/  
  Data/  
    ethogram.tsv  
    acc/  
    audits/  
  Figures/  
  tools/  
...
```

The files in Data/acc must be generated using e-Obs DataDecoder, as specified below. The files in Data/audits must be generated using BORIS, and config.py must reflect appropriate behaviours in the lists STATES, EVENTS, and METALABELS.

### 1.1 Important notes:

1. Before using this software, use the DataDecoder provided by e-Obs to extract ACC data in columns with time data. To do this, first download the DataDecoder from [here](#). (The linux version is already available in the `tools/` directory here. Then, extract data from `logger.bin` files using the command

```
decoder -f <filename> -d <output-dir> -c 6 -a c
```

2. This software uses the `locale` package in python, and sets it to `de_DE.utf8`. This change is necessary because the e-Obs DataDecoder saves time format with day-of-week in German (So, Mo, Di, Mi, Do, Fr, Sa).

To do this on linux, you must first install the German locale

```
sudo apt install language-pack-de
```

15 directories