

Feature Extraction with fxtract



Examples (for timestamped data):

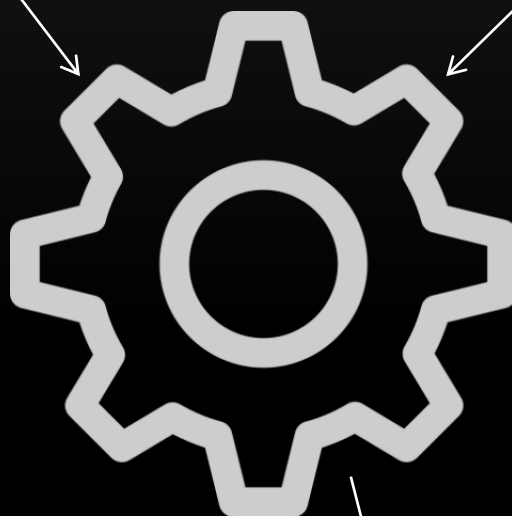
- heart rate measurements of many patients
- gps data for analysis of movements of many devices
- data logs of many devices (e.g. smartphones, cars, ...)

Grouped Data



User-defined Features

Users define functions, which have their dataset as input and the calculated features as output (e.g. mean and sd of some variables). Calculation for each group is done by fxtract.



Big Data

Data for each group is only loaded into memory, when needed.

Error Handling

Calculation does not stop, if single functions fail on single datasets. Instead, missings are reported and error messages are made available.

Object Oriented (R6)

All functionality is available in one object.
No more code bloat.

Parallelization

Just set the number of cores in the R6 object.

Summarized Data

The resulting dataset is available in the R6 object as dataframe (1 row per group).



Available on CRAN:
`install.packages("fxtract")`



GitHub:
<https://github.com/QuayAu/fxtract>



Quay Au
Author, maintainer.
quay.au@stat.uni-muenchen.de
<https://quayau.github.io/fxtract/>

