

# Feature Extraction with fxtract



## Grouped Data

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, ...)



## 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, 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 (1 row per group).



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



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



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<https://quayau.github.io/fxtract/>

