

(a) Segmentation (*real-time*)

- lighting correction
- undistortion
- cropping
- background subtraction
- custom segmentation masks

**(b) Tracking**

- export position- and posture-related data
- export visual fields

TGrabs *only (real-time):*

- live tracking & posture
- customizable close-loop feedback
- prepare videos for further analysis in TRex

**(c) Automatic identity correction (*optional*)**

- up to 100 individuals
- supports area-of-interest
- hours of video in ~1-2x real-time
- largely independent of organism

(d) Exploration

interactively explore ...

- all tracking-data
- visual field networks
- individualized live-heatmaps

export ...

- showcase videos with in-video camera movement
- normalized, cropped images of individuals

and much more ...

