

# Palmreader: Blackbox behavior analysis

Alex Zhang et al

12/18/2023

## 1 Skeleton tracking

deeplabcut is used to track the mouse's skeleton in each video frame.

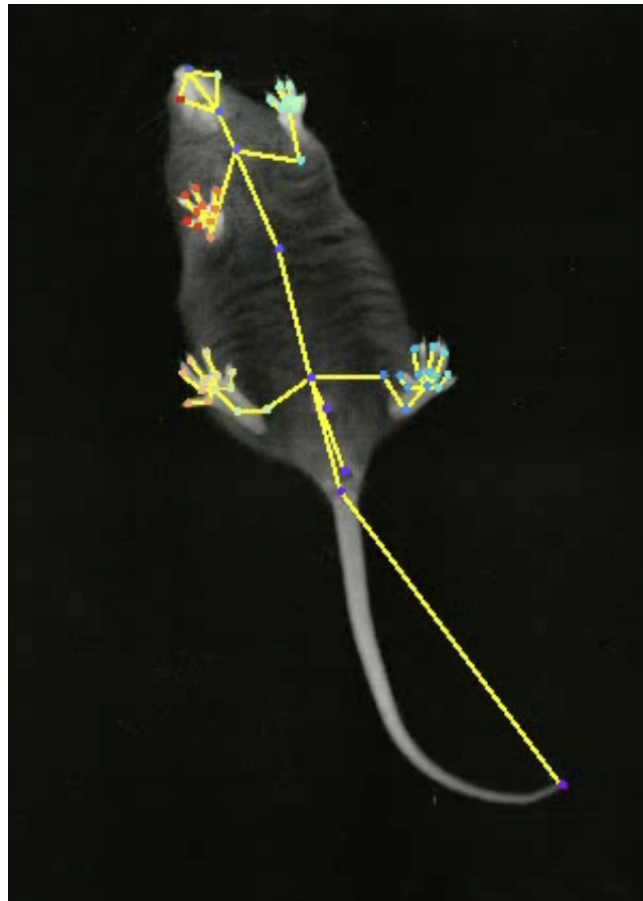


Figure 1: schematic of the skeleton tracking

1. midline
  - tailtip - tailbase - anal - genital - hip - sternumtail - sternumhead - neck - snout - lcheek (left cheek) - rcheek
2. Some other things

We can make a table with centered elements:

$$\begin{bmatrix} 1.1754 & -0.8334 & 193.4191 \\ 0.2062 & 1.0380 & -141.0333 \\ -0.0008 & 0.0007 & 1.0000 \end{bmatrix}$$

There you go! That should be enough to get you started on LaTeX!