

Action Patterns and Kinematics



Turn in homework including:
Ethogram Lab Report
Wale et al. Paper Analysis Homework

QUIZ!

High Speed Video

- Standard video cameras record at 30 frames per second
- High speed cameras are called such because they have more frames per second
 - Often these speeds are closer to 60 frames per second



FAPs vs MAPs

- FAP = Fixed Action Pattern
- MAP = Modal Action Pattern
- FAPs are considered fixed because they're actions that, once started, must be completed in an identical sequence
- MAPs are the same actions but completed in slightly different patterns
- There has been a shift in behavior research towards MAPs because they are less rigid and most behaviors are not perfectly the same each time

MaxTRAQ

The screenshot displays the MaxTRAQ software interface with the following components:

- Menubar:** Located at the top, containing menus for File, Edit, View, Image, Tools, and Help.
- Toolbar:** A row of icons for file operations and editing, located below the menubar.
- Video:** A central window showing a grayscale video of a dog standing on a platform. A red line indicates an angle measurement, labeled "Angle #1=148.1". A scale bar at the bottom of the video frame indicates 1000 mm.
- Digitizing Controls:** A panel on the right side of the video window containing a list of points (Point #1, Point #2, Point #3) and a "Number of Points" field set to 3.
- Graph:** A panel below the video window showing a line graph titled "X Velocity vs Time". The y-axis is labeled "mm/s" and ranges from -4050 to 2583. The x-axis is labeled "Time (s)" and ranges from 0.02 to 7.22. The graph displays three data series in blue, red, and green.
- Video Properties:** A panel on the right side of the graph window showing video settings: Frame Rate: 46 Hz, No of Frames: 332, and Resolution: 640x480.
- Video Controls:** A panel at the bottom of the interface containing playback controls (Bri, Con, B/W, T0, T1, Step, Slo, Ths) and a status bar showing "Ready".