

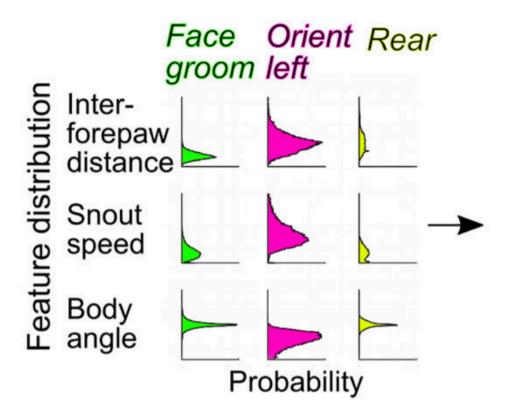
Extract pose relationships

Advantages:

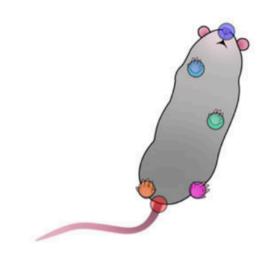
- Any pose or marker data
- Any model organism
- Any camera angle

Pattern identification

- Retains high-D structure in low-D space
- Finds optimal number of cluster groups



B-SOiD prediction: locomotion



Machine learning

- Multi-class behavioral classifier trained on postural features
- Unlike statistical clustering alone, algorithm generalizes across feature space

Apply classifier to new data

Advantages:

- Accelerated processing
- Apply across datasets, labs
- < 5 ms detection resolution
- Limb kinematics