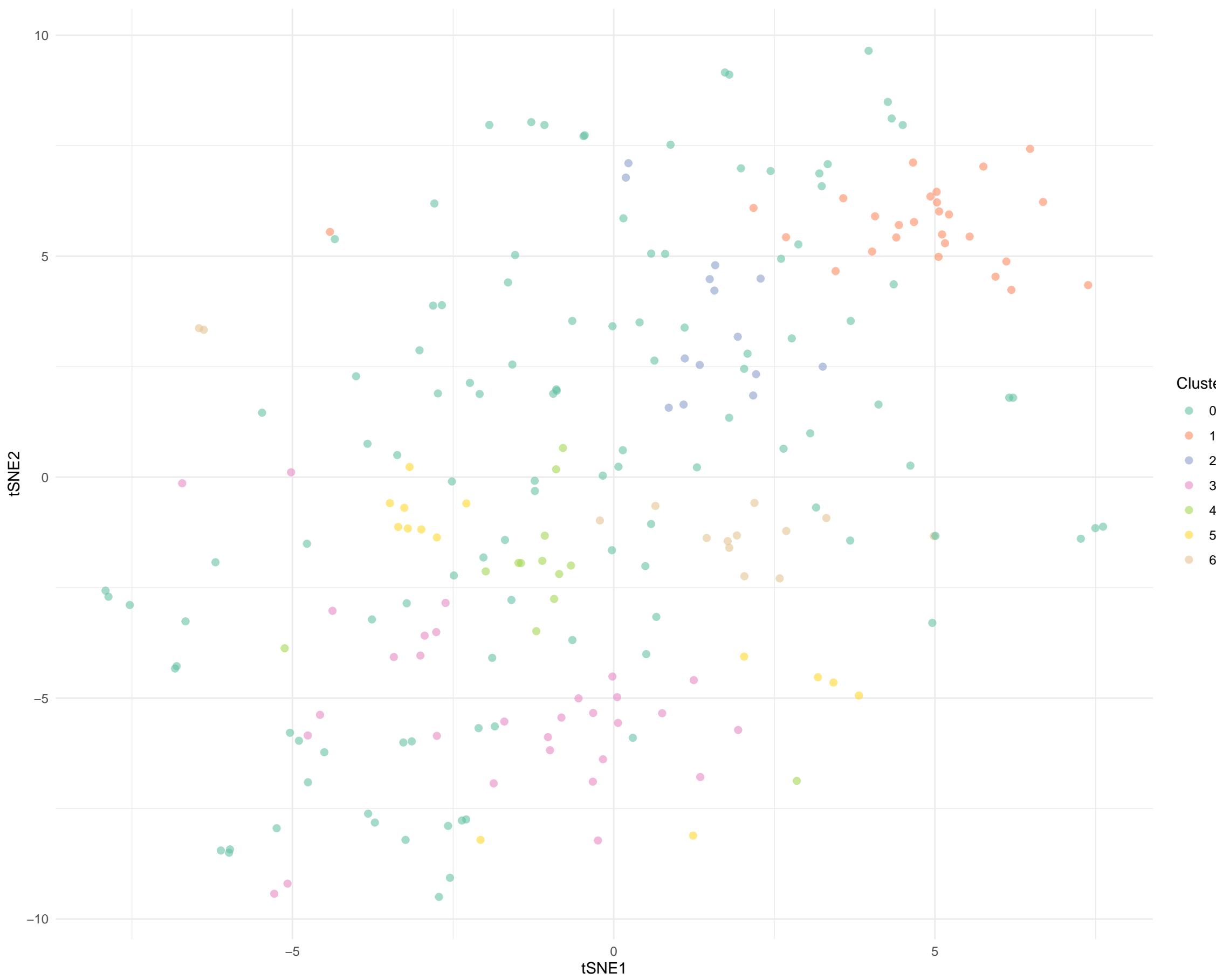


PCA Visualization – bsoid



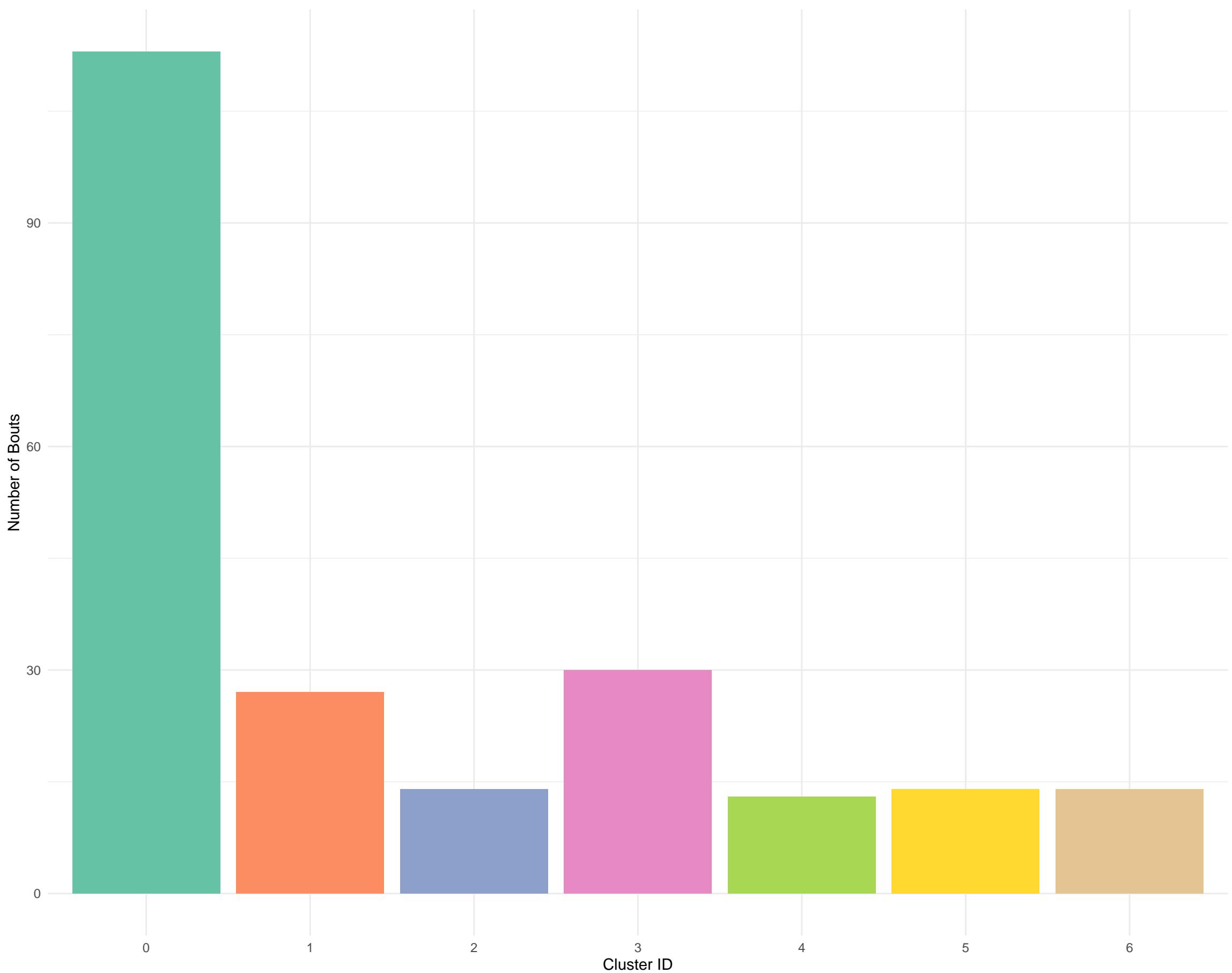
Interpretation: Principal Component Analysis (PCA) reduces high-dimensional feature space to 2D. Each point represents a bout, colored by cluster. PC1 and PC2 are linear combinations of original features that capture the most variance.

t-SNE Visualization – bsoid

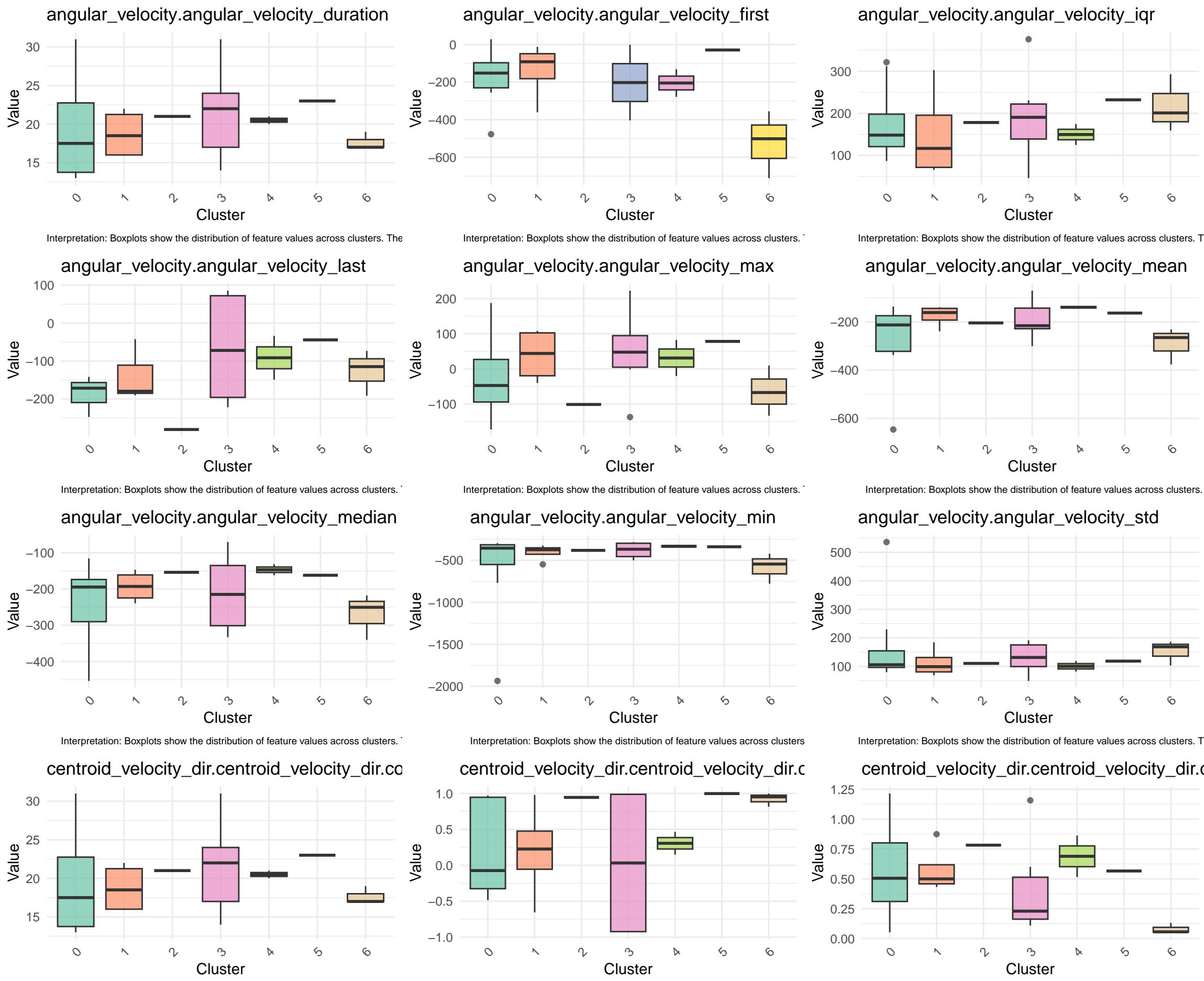


Interpretation: t-SNE (t-distributed Stochastic Neighbor Embedding) is a non-linear dimensionality reduction technique that preserves local neighborhood structure. Points close in the original high-dimensional space remain close in 2D.

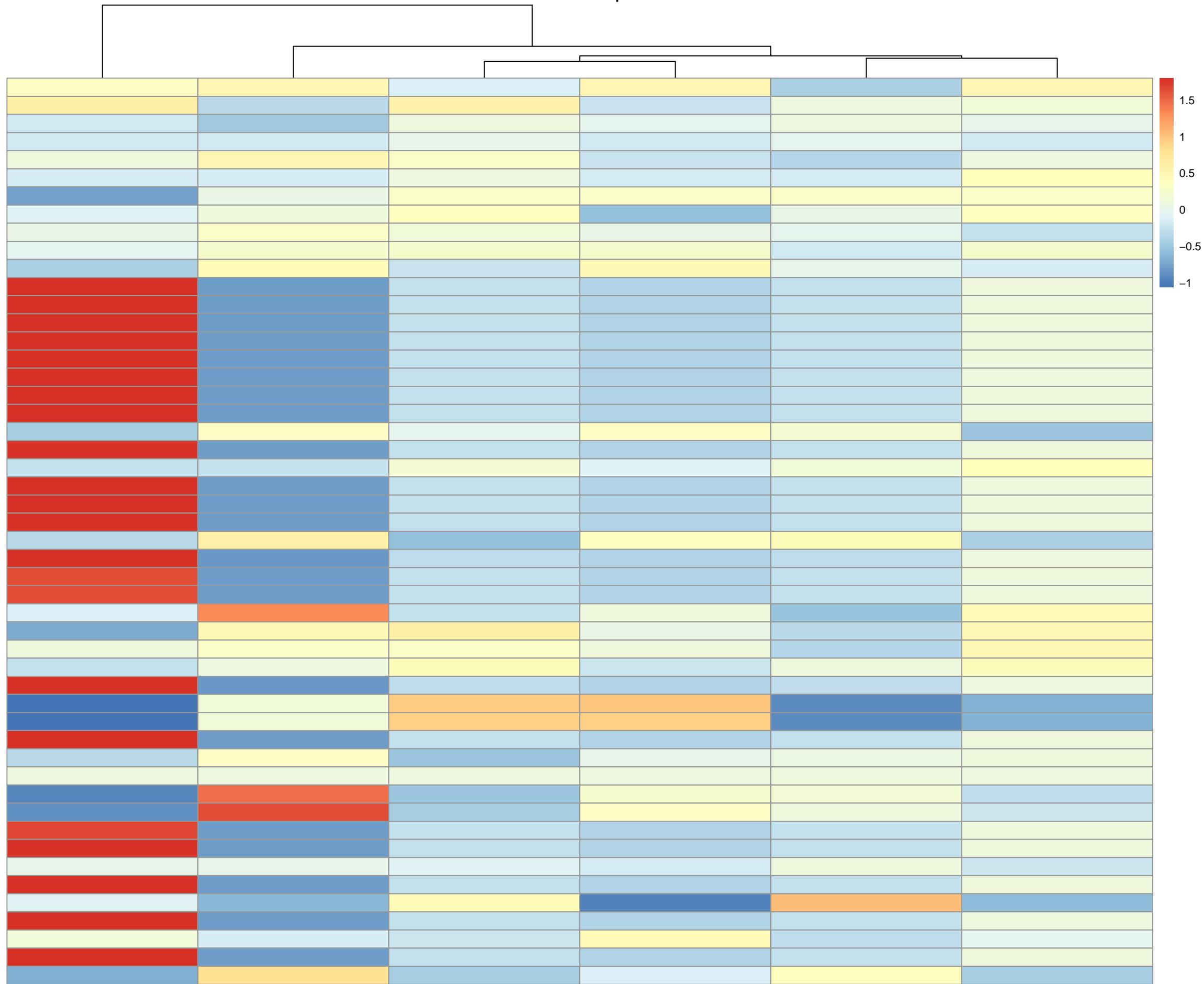
Cluster Sizes



Interpretation: This bar chart shows the number of bouts assigned to each cluster. Balanced clusters (similar sizes) are generally preferred, but natural behavior patterns may result in uneven distributions. Very small clusters may represent



Cluster Feature Heatmap – unknown



Clustering Method: unknown

Total Bouts: 225

Number of Clusters: 7

Cluster Sizes:

miss the top variable features (columns). Colors represent standardized values: red = high, blue = low, white = average. Clusters with similar color patterns share similar feature p

Cluster 0: 113 bouts

Cluster 1: 27 bouts

Cluster 2: 14 bouts

Cluster 3: 30 bouts

Cluster 4: 13 bouts

Cluster 5: 14 bouts

Cluster 6: 14 bouts