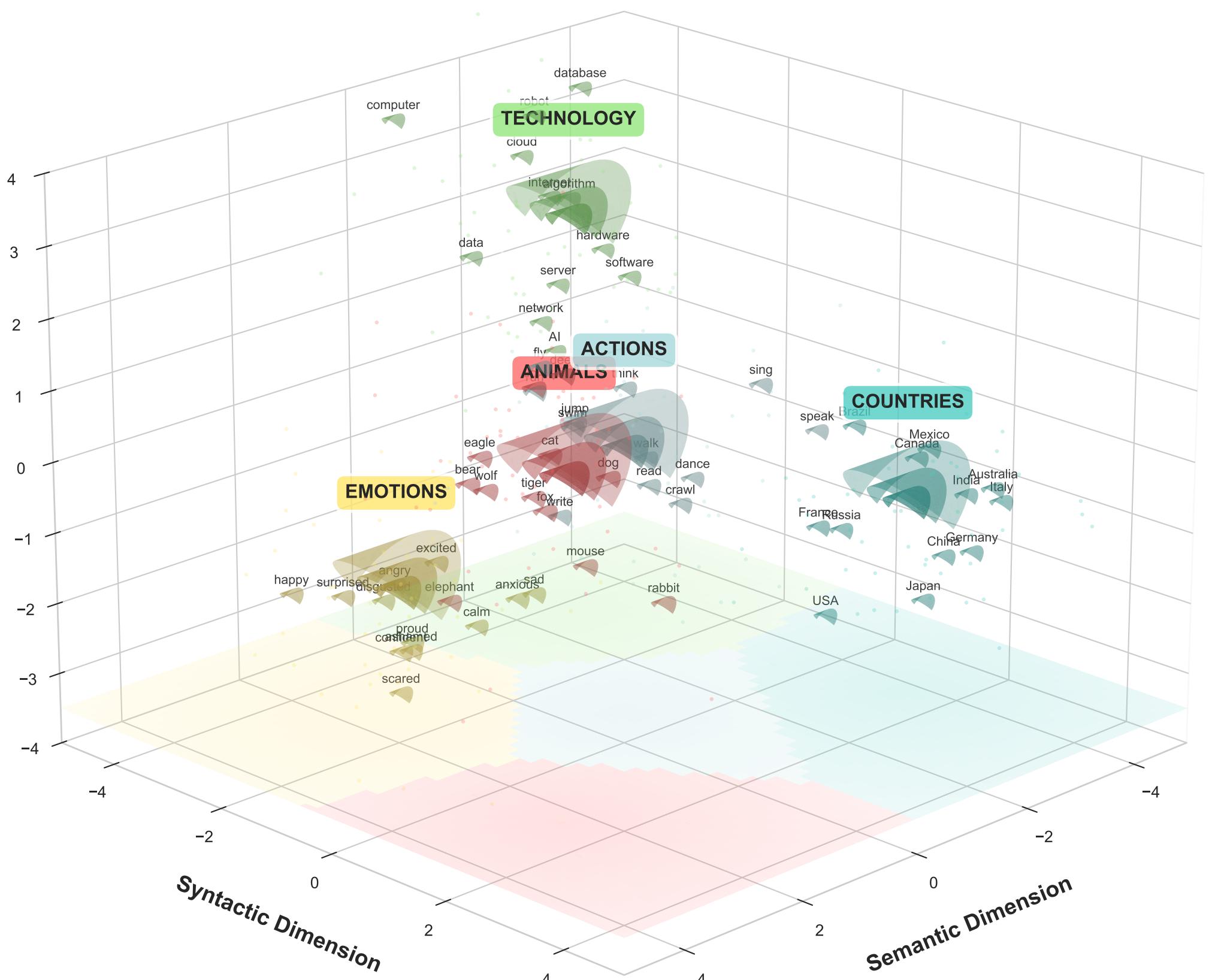# Word Embeddings as K-means Clusters in 3D Space
Semantic Organization with Voronoi Boundaries

Legend:
- Animals (12 words)
- Countries (12 words)
- Technology (12 words)
- Emotions (12 words)
- Actions (12 words)

Cluster labels: TECHNOLOGY, ACTIONS, ANIMALS, COUNTRIES, EMOTIONS

Axes: Syntactic Dimension, Semantic Dimension

Visualization Features:
- Glass spheres: Individual word embeddings
- Glowing orbs: Cluster centroids
- White curves: Semantic relationships
- Base plane: Voronoi boundaries
- Particles: Embedding density