Metric Learning

Learn an embedding network that transforms raw inputs into a representation suitable for recognition by simple similarity comparison between query(“test”) and support(“training”) instances, (e.g., with cosine similarity or euclidean distance).

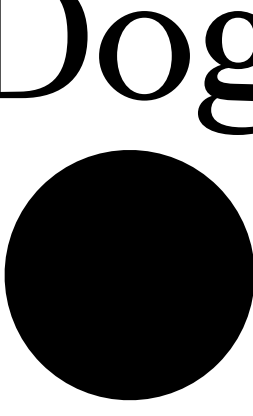
Bird

Dog

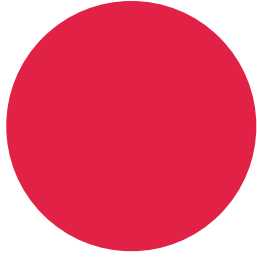
Monkey

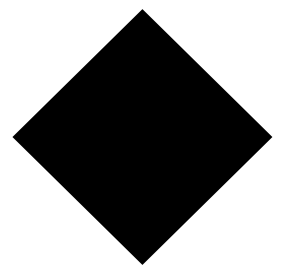
Bird

Dog



Monkey

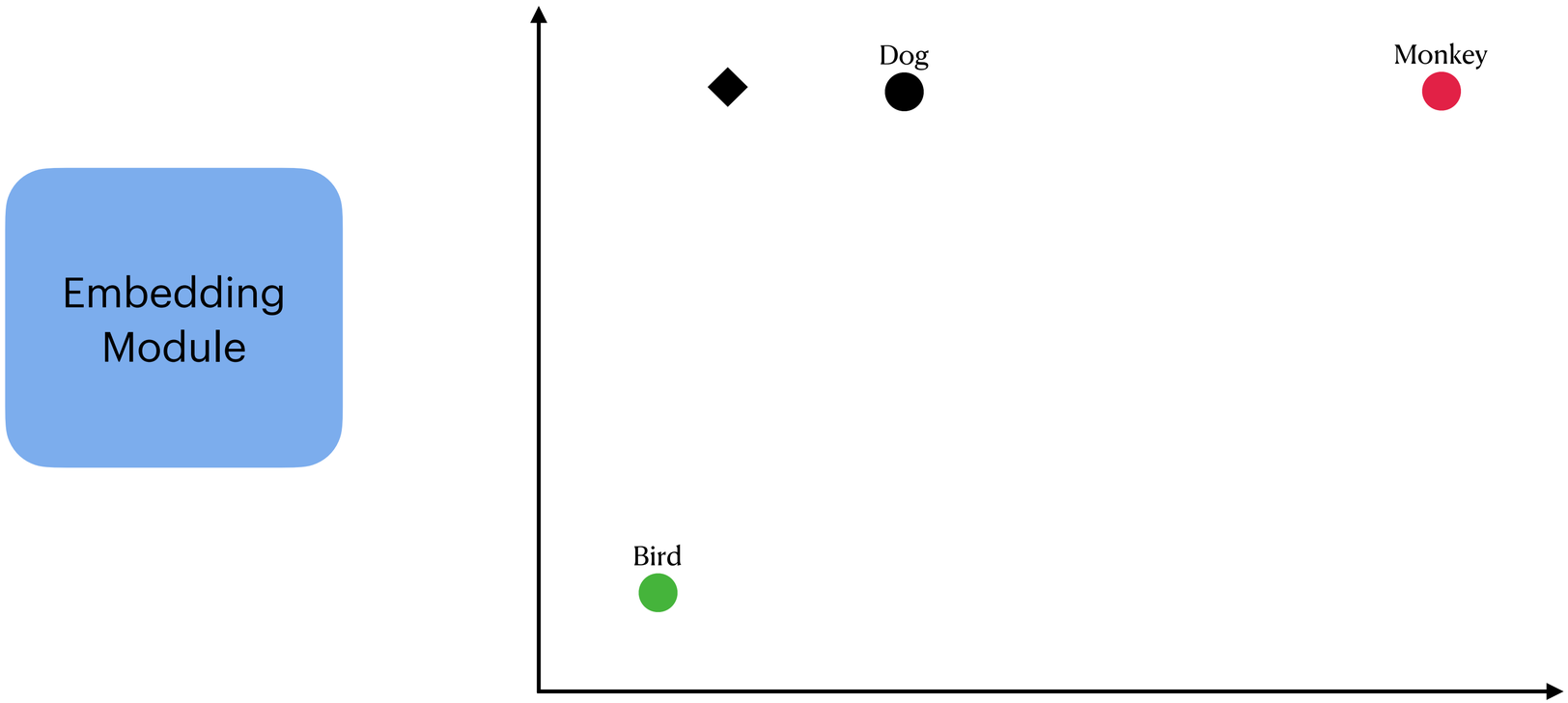




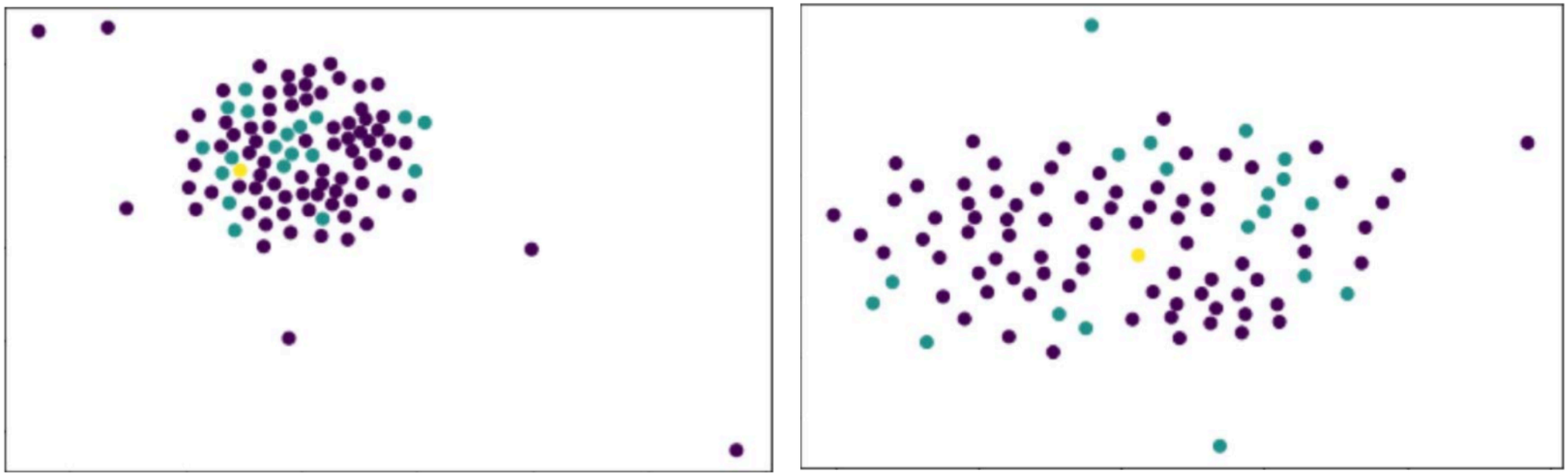
Embedding Module

Metric Learning

Learn an embedding network that transforms raw inputs into a representation suitable for recognition by simple similarity comparison between query(“test”) and support(“training”) instances, (e.g., with cosine similarity or euclidean distance).



Non-linearity problem



Actual image embeddings from the omniglot dataset visualized in 2D using PCA. Yellow and teal dots are of matching classes