

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



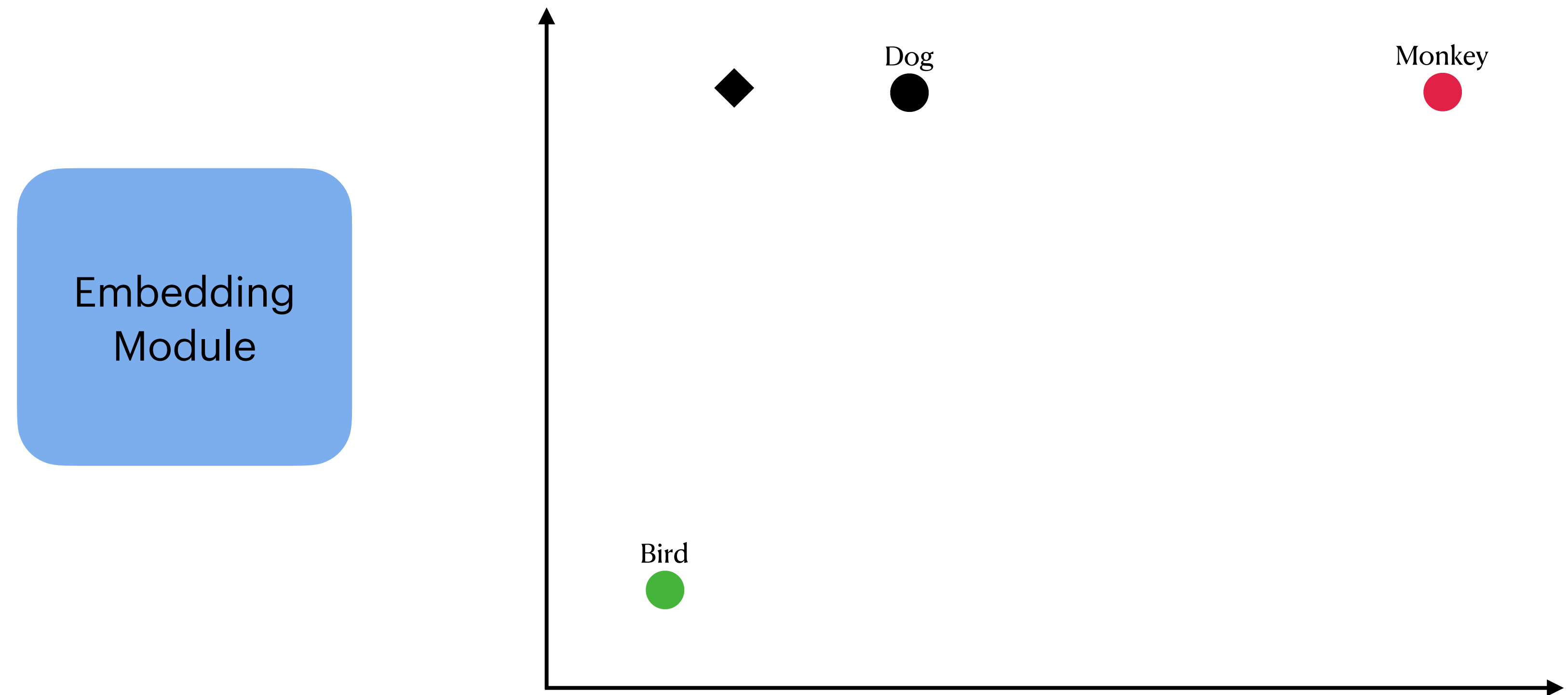




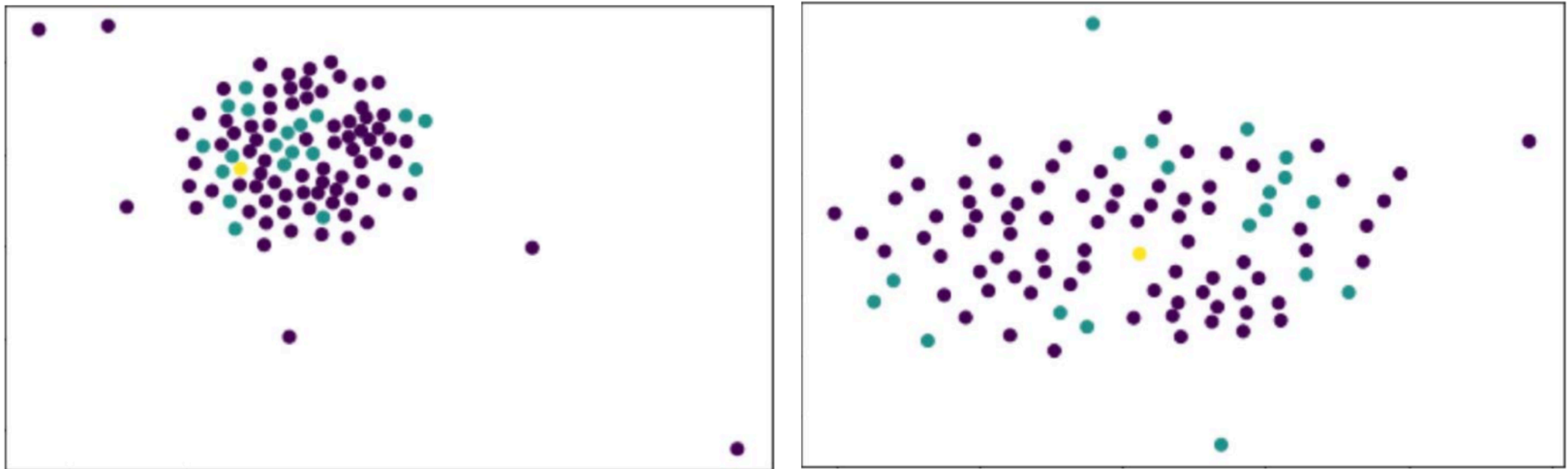
Embedding Module

Metric Learning

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Non-linearity problem



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