











## Cat













#### Fish



#### Horse











#### Rabbit

## Sheep



# 



### Rabbit



# 













## Relation Module



















## Embedding

Module





$$f_{\varphi}(image)$$

 $g_{\varphi}(e_1,e_2)$ 

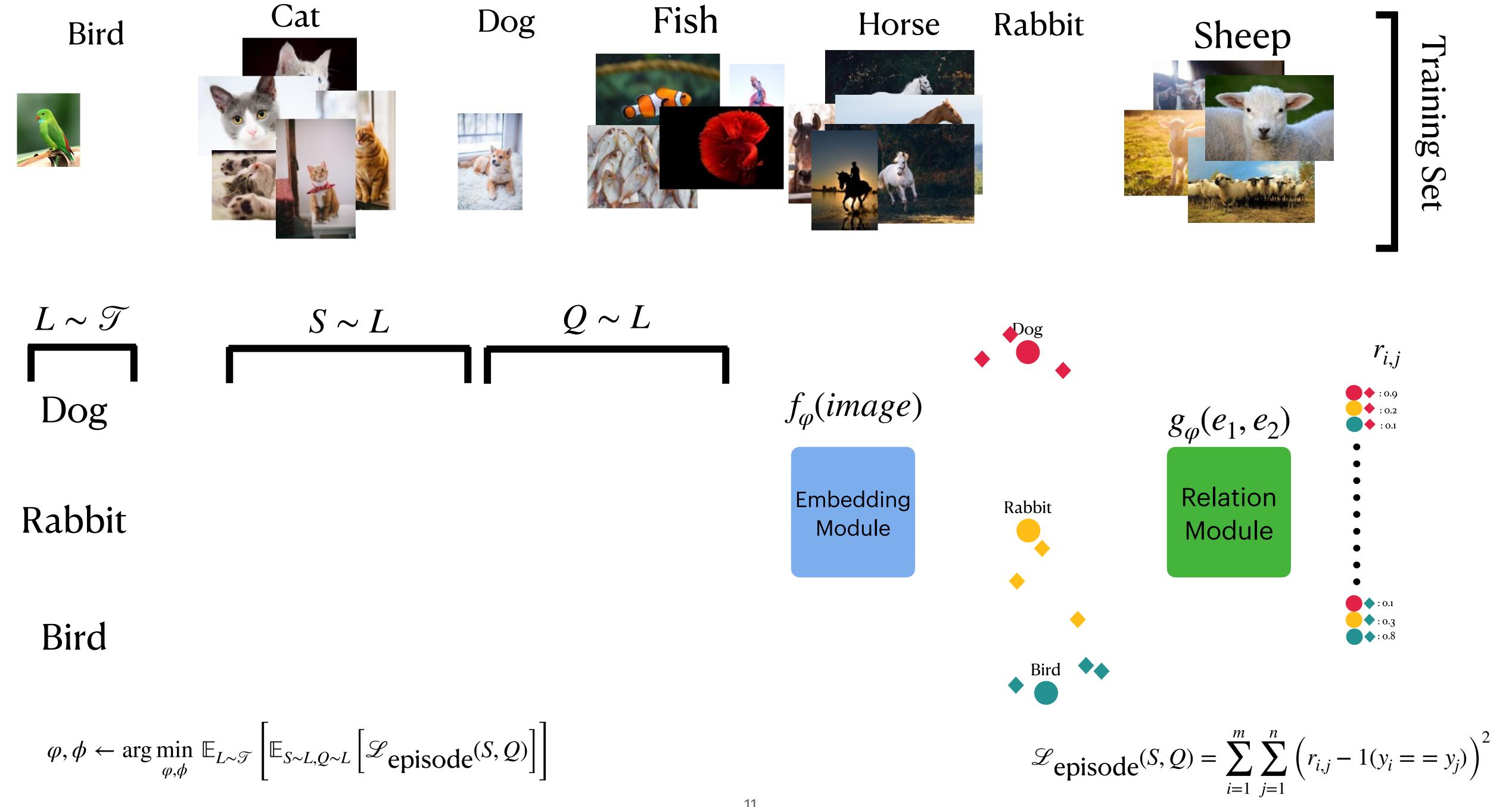
$$de^{(S,Q)}$$

$$\varphi, \phi \leftarrow \arg\min_{\varphi, \phi} \mathbb{E}_{L \sim \mathcal{T}} \left[ \mathbb{E}_{S \sim L, Q \sim L} \left[ \mathcal{L}_{episode}(S, Q) \right] \right]$$

 $\mathcal{L}_{episode}(S, Q) = \sum_{i} \sum_{j} \left( r_{i,j} - 1(y_i = y_j) \right)^2$ 







## Relation Nets One-Shot Testing

