



Relation Nets One-Shot Testing



# Lion



Monkey

**Lion**

Elephant





$L \sim \mathcal{T}_{test}$



$$Q \sim L$$


# Elephant



# Monkey









# Relation Module























  : 0.9

  : 0.2

  : 0.1

  : 0.1

  : 0.3

  : 0.8

S

~

L

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

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























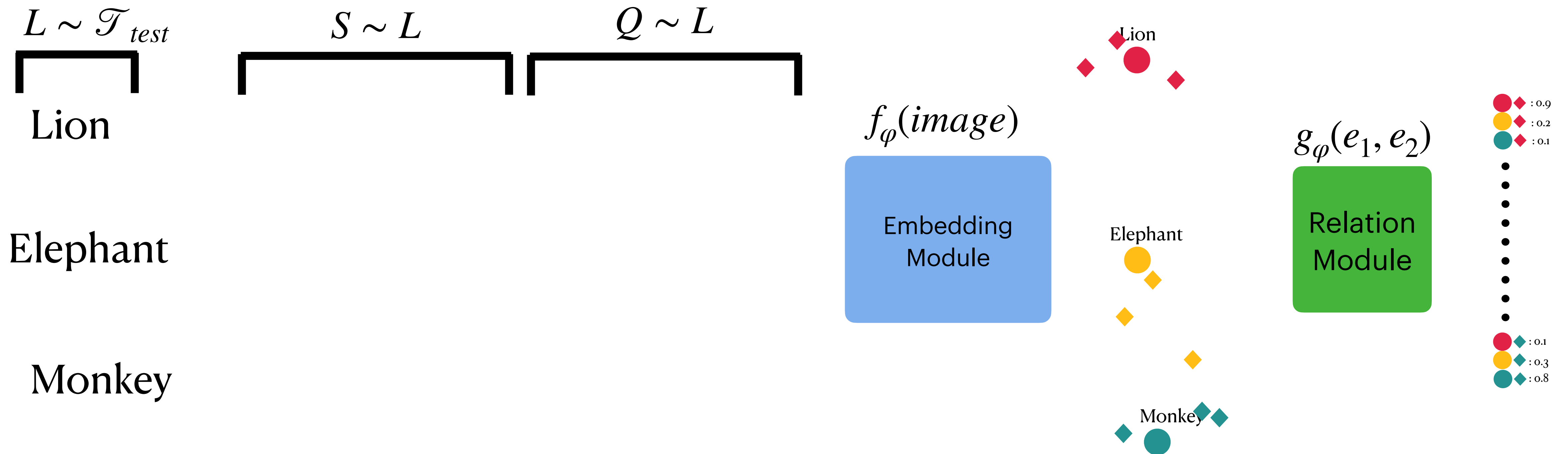






# Embedding Module

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# Zero-Shot Learning (1)

Zero-shot learning is analogous to one-shot. However instead of being given a sample set with an image for each of  $C$  training classes, it contains a **semantic class embedding** vector  $v_c$  for each.

