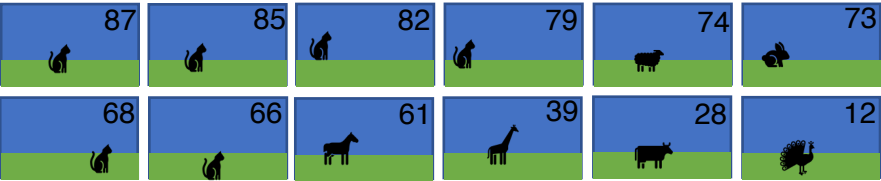
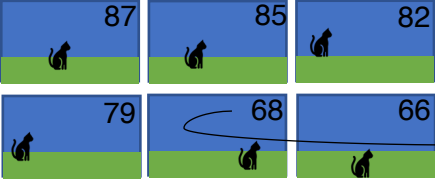


(a) Scored data set

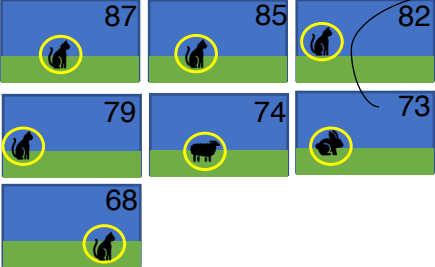


(b) How $B(r)$ is calculated

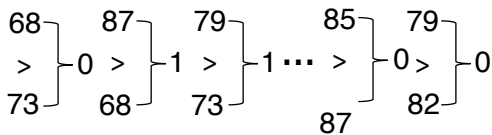
Real cats



Labelled cats ($r=67$)



Choose (with replacement) n real cats and n labelled cats at random (discard if same image chosen for comparison) and compare scores



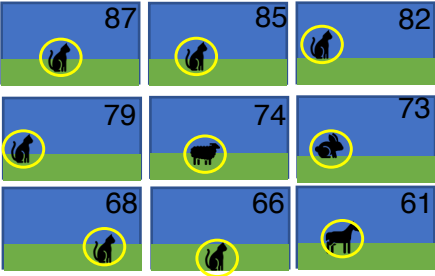
$B(r)$ is proportion of times real score is more than labelled, i.e.

$$B(r) = (0 + 1 + 1 + \dots + 0 + 0)/n$$

In this example: $B(65) \approx 0.49$
and $C(65) = 5/7 \approx 0.71$

(c) Effect of changing threshold (r)

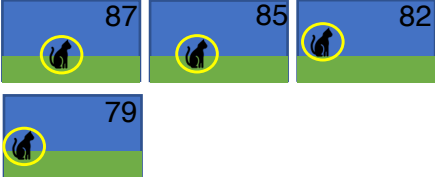
Labelled cats ($r=60$)



Decreasing r , increases the number of labelled cats and gives a larger value of $B(r)$. Real cats are unaffected by the choice of r .

In this example: $B(60) \approx 0.60$ and $C(60) = 6/9 \approx 0.66$

Labelled cats ($r=75$)



Increasing r , decreases the number of labelled cats and gives a smaller value of $B(r)$.

In this example: $B(75) \approx 0.49$
and $C(75) = 4/4 = 1$