



**Figure S1: Comparison of the five color pairs used in Experiment 2.** The colors become increasingly similar (from 1 to 5) and therefore the decision for the correct target (inner white circle) becomes more difficult. The corresponding RGB values are given under each frame.

**Table S1:**

Statistics of the LME that fitted best to head yaw and roll angles. We compared the change of the angles from F1 to F2 (F1→F2) and from F2 to peck (F2→Peck) for each side of the stimuli (left, center, right). The LME included stimulus size as fixed and animal as random effect: 'y ~ phase + (1 |animal)'.

	Side	F1→F2			F2→Peck		
		Df	t-stat	p	Df	t-stat	p
Yaw	left	3620	41.8	<0.001	3691	1.5	=0.125
	center	3598	5.6	<0.001	3674	11.5	<0.001
	right	3555	-30.1	<0.001	3679	5.6	<0.001
Roll	left	3620	-53.8	<0.001	3691	-31.1	<0.001
	center	3598	-17.6	<0.001	3674	-20.7	<0.001
	right	3555	31.9	<0.001	3679	13.6	<0.001