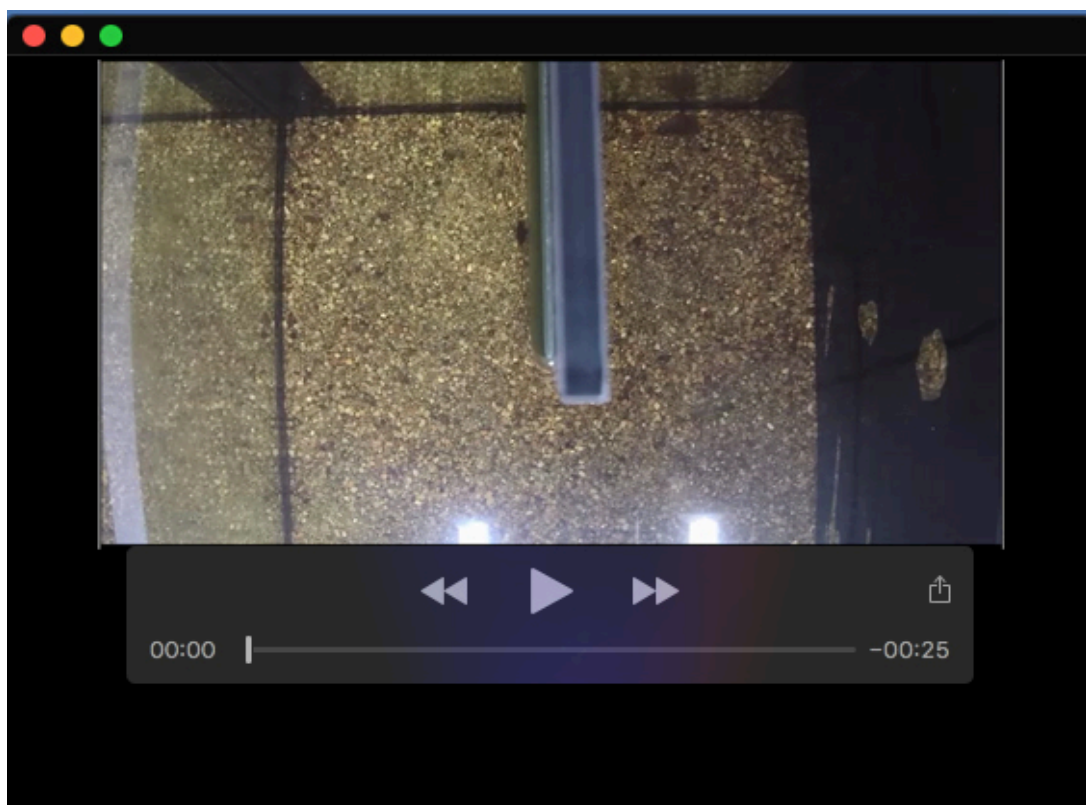


Table S1. Threshold determinations for single target acuity with different contrast levels to background for each individual fish.

Single target acuity [deg] for single targets with Weber/Michelson contrast of C1 = 0.98/0.97				
Threshold determination	1	2	3	4
Roy	0.24	0.13	0.13	0.16
Hanna	0.13	0.13	0.14	0.13
Anna	0.32	0.31	0.32	0.34
Frida	0.15	0.12	0.13	0.13
Luigi	0.17	0.19	0.19	0.19
Lina	0.15	0.12	0.12	0.12

Single target acuity [deg] for single targets with Weber/Michelson contrast of C2 = 0.67/0.5					
Threshold determination	1	2	3	4	5
Roy	0.51	0.32	0.31	0.35	
Hanna	0.40	0.36	0.36	0.34	0.35
Anna	0.35	0.34	0.37	0.36	
Frida	0.65	0.36	0.33	0.37	
Luigi	0.99	0.64	0.37	0.37	0.37
Lina	0.35	0.31	0.31	0.31	

Single target acuity [deg]								
for single targets with Weber/Michelson contrast of								
C3 = 0.41/0.25								
Threshold	1	2	3	4	5	6	7	8
Roy	1.01	0.67	0.65	0.40	0.34	0.33	0.36	
Hanna	0.62	0.59	0.40	0.44	0.43			
Anna	0.55	0.48	0.45	0.50	0.56			
Frida	0.55	0.51	0.58	0.54	0.45	0.37	0.37	0.40
Luigi	1.06	0.65	0.67	0.56	0.51	0.55		
Lina	0.55	0.34	0.32	0.34				



Movie 1. Experimental trials.