

Table S1. The portion of trials in which the behavior or body posture was presented, was the first behavior showed when all behaviors and body postures were included, was the first essential behavior (i.e., bite, rattle, escape; note that not all snakes displayed these behaviors). n = 21

	Human	Fox	Bird attack	Bird overflying	Mouse
Present					
bite	0.71	0.29	0.29	0.00*	0.57
rattle	0.71	0.52	0.52	0.33	0.43
escape	0.95	0.81	0.62	0.62	0.52
compression	0.19	0.00	0.86	0.95	0.24
freezing	0.38	0.62	0.57	0.57	0.71
hide head	0.00	0.52	0.14	0.05	0.62
elevate head	0.24	0.33	0.19	0.29	0.71
1st behavior					
bite	0.05	0.00	0.00	0.00*	0.00
rattle	0.14	0.14	0.05	0.05	0.14
escape	0.43	0.14	0.14	0.05	0.00
compression	0.00	0.00	0.38	0.33	0.05
freezing	0.29	0.43	0.29	0.33	0.24
hide head	0.00	0.10	0.00	0.00	0.19
elevate head	0.10	0.19	0.14	0.24	0.38
1st essential behavior					
bite	0.24	0.00	0.00	0.00*	0.33
rattle	0.19	0.43	0.43	0.19	0.33
escape	0.57	0.43	0.43	0.52	0.19

* Biting could not occur in the overflying bird test, as the bird was always at a distance of at least 3 m.

Table S2. Approach distance, flight distance and rattle duration at the first occurrence of the behavior (average +/- sd). Number of snakes that presented the behavior in parenthesis, n = 21. Results of the analyses are also given.

	human	fox	bird attack	bird overflying	mouse	<i>F</i>	df	<i>P</i>
Reaction distance	85.67 ± 30.31	124.12 ± 53.66	125 ± 34.26	119.71 ± 54.59	108.14 ± 38.56	4.71	4,98	
Approach distance								
bite	36.87 ± 18.69 (15)	34.33 ± 15.33 (6)	37.17 ± 21.57 (6)		33.83 ± 17.65 (12)	0.04	3,16	0.99
rattle	70.27 ± 34.46 (15)	70.68 ± 47.73 (11)	92.82 ± 37.10 (11)	68.71 ± 18.40 (7)	75.00 ± 21.51 (9)	0.88	4,28	0.49
escape	56.93 ± 31.07 (20)	56.76 ± 21.64 (17)	74.38 ± 42.55 (13)	68.31 ± 26.47 (13)	69.45 ± 34.01 (11)	2.96	1,19	0.10
compression	21.75 ± 15.54 (4)		98.92 ± 30.46 (18)	81.40 ± 37.58 (20)	93.80 ± 42.04 (5)	5.79	2,23	0.004
freezing	114.63 ± 34.62 (8)	112.81 ± 32.50 (13)	110.88 ± 35.49 (12)	102.08 ± 41.14 (12)	100.20 ± 47.12 (15)	0.33	4,35	0.85
hide head		99.55 ± 79.25 (11)	71.00 ± 34.51 (3)	9.00 (1)	90.54 ± 32.85 (13)	5.85	3,28	
elevate head	90.40 ± 50.08 (5)	86.14 ± 48.96 (7)	138.50 ± 34.68 (4)	99.67 ± 40.53 (6)	97.97 ± 22.32 (15)	1.35	4,16	0.30
Flight distance	60.74 ± 32.13 (19)	51.97 ± 19.87 (15)	46.15+20.48 (13)	45.65 ± 19.42 (13)	50.18 ± 21.05 (11)	1.18	1,47	0.33 a
Rattle duration	36.67 ± 28.59 (15)	13.00 ± 10.86 (11)	6.25+3.65 (12)	8.71 ± 6.95 (7)	24.11 ± 13.09 (9)	14.06	4,28	a

a: approach distance did not affect the variable.
Note: The sexes did not differ (P > 0.10). P values are not available for tests with Gamma distribution and are only given for parametric tests.

Table S3. Tukey post hoc test for the reaction distance.

Test comparison	estimate ± sd	z	P
human - bird attack	-0.41 ± 0.10	-4.04	<0.001
human - bird overflying	-0.34 ± 3.39	-3.39	0.006
human - fox	-0.38 ± 0.10	-3.74	0.001
human - mouse	-0.25 ± 0.10	-2.5	0.09
bird overflying - bird attack	-0.07 ± 0.10	-0.66	0.97
fox - bird attack	-0.03 ± 0.10	-0.31	0.99
fox - bird overflying	0.04 ± 0.10	0.35	0.99
mouse - bird attack	-0.16 ± 0.10	-1.54	0.53
mouse - bird overflying	-0.09 ± 0.10	-0.88	0.90
mouse - fox	-0.13 ± 0.10	1.24	0.73

Table S4. Tukey post hoc test for the approach distance at which compression occurs.

Test comparison	estimate ± sd	z	P
human - bird attack	-18.34 ± 9.53	-4.02	<0.001
human - bird overflying	-50.37 ± 17.01	-2.96	0.015
human - mouse	-65.68 ± 21.13	3.11	0.009
bird overflying - bird attack	-18.34 ± 9.53	-1.92	0.21
mouse - bird attack	-3.03 ± 15.83	-0.19	0.99
mouse - bird overflying	15.31 ± 15.70	0.98	0.75

Table S5. Tukey post hoc test for rattle duration.

Test comparison	estimate ± sd	z	P
human - bird attack	1.74 ± 0.27	6.53	<0.001
human - bird overflying	1.48 ± 0.30	4.89	<0.001
human - fox	1.15 ± 0.27	4.18	<0.001
human - mouse	0.41 ± 0.28	1.46	0.59
bird overflying - bird attack	0.26 ± 0.32	0.80	0.93
fox - bird attack	0.59 ± 0.30	1.96	0.28
mouse - bird attack	1.33 ± 0.31	4.33	<0.001
fox - bird overflying	0.33 ± 0.32	1.04	0.83
mouse - bird overflying	1.07 ± 0.34	3.17	0.01
mouse - fox	0.74 ± 0.31	2.41	0.11

Table S6. Markov models for the complete sequence of the behavior of the rattlesnake

<u>Human</u>								
behavior \	followed by:							
	Bite	Rattle	Escape	Freezing	Compression	Hide head	Elevate head	None
Bite	0.13	0.30	0.22	0.00	0.04		0.00	0.30
Rattle	0.50	0.00	0.35	0.00	0.00		0.00	0.15
Escape	0.09	0.16	0.22	0.06	0.09		0.06	0.31
Compression	0.50	0.25	0.00	0.00	0.00		0.00	0.25
Freezing	0.13	0.38	0.25	0.00	0.00		0.25	0.00
Hide head								
Elevate head	0.50	0.17	0.33	0.00	0.00		0.00	0.00
<u>Fox</u>								
	Bite	Rattle	Escape	Freezing	Compression	Hide head	Elevate head	None
Bite	0.14	0.14	0.00	0.00		0.14	0.14	0.43
Rattle	0.00	0.00	0.64	0.00		0.09	0.09	0.18
Escape	0.22	0.06	0.00	0.28		0.11	0.06	0.28
Compression								
Freezing	0.00	0.13	0.27	0.00		0.47	0.00	0.13
Hide head	0.15	0.23	0.00	0.00		0.00	0.00	0.62
Elevate head	0.00	0.14	0.57	0.14		0.00	0.00	0.14

Bird attack

	Bite	Rattle	Escape	Freezing	Compression	Hide head	Elevate head	None
Bite	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.67
Rattle	0.14	0.07	0.14	0.07	0.36	0.07	0.00	0.14
Escape	0.00	0.07	0.07	0.27	0.47	0.00	0.00	0.13
Compression	0.08	0.17	0.13	0.13	0.00	0.04	0.00	0.46
Freezing	0.07	0.27	0.27	0.00	0.20	0.07	0.07	0.07
Hide head	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.33
Elevate head	0.00	0.50	0.00	0.25	0.25	0.00	0.00	0.00

Bird overflying

	Bite	Rattle	Escape	Freezing	Compression	Hide head	Elevate head	None
Bite								
Rattle		0.00	0.29	0.00	0.43	0.00	0.14	0.14
Escape		0.13	0.06	0.25	0.38	0.00	0.00	0.19
Compression		0.11	0.29	0.07	0.00	0.00	0.04	0.50
Freezing		0.07	0.21	0.00	0.57	0.00	0.00	0.14
Hide head		0.00	0.00	0.00	0.00	0.00	0.00	1.00
Elevate head		0.00	0.14	0.14	0.57	0.14	0.00	0.00

<u>Mouse</u>	Bite	Rattle	Escape	Freezing	Compression	Hide head	Elevate head	None
Bite	0.11	0.00	0.00	0.17	0.06	0.06	0.33	0.28
Rattle	0.14	0.07	0.43	0.07	0.00	0.07	0.00	0.21
Escape	0.00	0.27	0.00	0.27	0.09	0.09	0.27	0.00
Compression	0.40	0.20	0.00	0.20	0.00	0.00	0.20	0.00
Freezing	0.17	0.00	0.06	0.00	0.00	0.33	0.28	0.17
Hide head	0.13	0.19	0.06	0.06	0.00	0.00	0.25	0.31
Elevate head	0.23	0.10	0.10	0.13	0.06	0.10	0.13	0.16

Table S7. Markov sequence including behaviors in our prediction: freezing, escape, rattle, bite.

<u>Human</u>					
behavior \	followed by:				
	Freezing	Escape	Rattle	Bite	None
Freezing	0.00	0.38	0.38	0.25	0.00
Escape	0.06	0.25	0.22	0.16	0.31
Rattle	0.00	0.35	0.00	0.50	0.15
Bite	0.00	0.22	0.30	0.13	0.35
<u>Fox</u>					
	Freezing	Escape	Rattle	Bite	None
Freezing	0.00	0.27	0.27	0.07	0.40
Escape	0.28	0.06	0.06	0.28	0.33
Rattle	0.00	0.73	0.00	0.00	0.27
Bite	0.00	0.00	0.14	0.14	0.71
<u>Bird attack</u>					
	Freezing	Escape	Rattle	Bite	None
Freezing	0.00	0.33	0.40	0.07	0.20
Escape	0.27	0.07	0.20	0.13	0.33
Rattle	0.07	0.21	0.07	0.21	0.43
Bite	0.00	0.33	0.00	0.00	0.67
<u>Bird overflying</u>					
	Freezing	Escape	Rattle	Bite	None
Freezing	0.00	0.36	0.07	0.00	0.57
Escape	0.31	0.13	0.19	0.00	0.38
Rattle	0.14	0.29	0.00	0.00	0.57
Bite					
<u>Mouse</u>					
	Freezing	Escape	Rattle	Bite	None
Freezing	0.06	0.17	0.00	0.39	0.39
Escape	0.45	0.00	0.55	0.00	0.00
Rattle	0.07	0.43	0.07	0.14	0.29
Bite	0.22	0.00	0.00	0.22	0.56

Table S8. The Markov models for the sequence of behavior only including the essential behaviors.

<u>Human</u>				
behavior \	followed by:			
	Bite	Rattle	Escape	None
Bite	0.13	0.30	0.22	0.35
Rattle	0.50	0.00	0.35	0.15
Escape	0.16	0.28	0.25	0.31
<u>Fox</u>				
	Bite	Rattle	Escape	None
Bite	0.14	0.14	0.00	0.71
Rattle	0.00	0.00	0.73	0.27
Escape	0.33	0.06	0.06	0.56
<u>Bird attack</u>				
	Bite	Rattle	Escape	None
Bite	0.00	0.00	0.33	0.67
Rattle	0.21	0.07	0.21	0.50
Escape	0.20	0.27	0.07	0.47
<u>Bird overflying</u>				
	Bite	Escape	Rattle	None
Bite				
Rattle		0.29	0.00	0.71
Escape		0.19	0.19	0.63
<u>Mouse</u>				
	Bite	Rattle	Escape	None
Bite	0.33	0.00	0.06	0.61
Rattle	0.14	0.07	0.43	0.36
Escape	0.27	0.55	0.00	0.18