

Code sheet explaining the variables

‘date’: Date of the conduction of the trial (YYYYMMDD)

‘group’: The marmoset group the subject belongs to (Group 1 or 2, “G1” or “G2”)

‘subject’: The individual identity of the subject (“Name”)

‘grammar’: The stimulus sequence of the trial (low-pitched tone “L”, high-pitched tone “H”)

‘test_type’: If the trial was part of “test1”, consistent sequences followed the rule LHⁿL; if the trial was part of “test2”, consistent sequences followed the rule HLⁿH

‘consistency’: Sequences following the rules LHⁿL and HLⁿH are “consistent”, sequences lacking the beginning or ending element are “inconsistent”

‘number_of_repeats’: Consistent sequences with an ‘n’ of center elements which did not occur in the habituation phase (‘n’=3 or 5)

‘subject_order’: The order in which the animals were tested on the same day

‘mean_head_orientation’: The average angle over all frames after the stimulus finished playing

‘maximum_head_rotation’: The maximum angle over all frames after the stimulus finished playing

‘number_of_head_turns’: The number of times the head orientation crossed the $|90^\circ|$ threshold after the stimulus finished playing

‘latency_until_head_turning’: The time from the end of the stimulus until the occurrence of a head turn