

Instructions for Virtual Mouse Vocal Organ

All supplementary files within folder S1 “VMVO” (57 files) need to be downloaded and stored within the same folder. This folder should be set as the ‘current folder’ within MATLAB.

The program can generate bouts of syllables that correspond to pups aged p5, p7, p9, p11, p13 or adults.

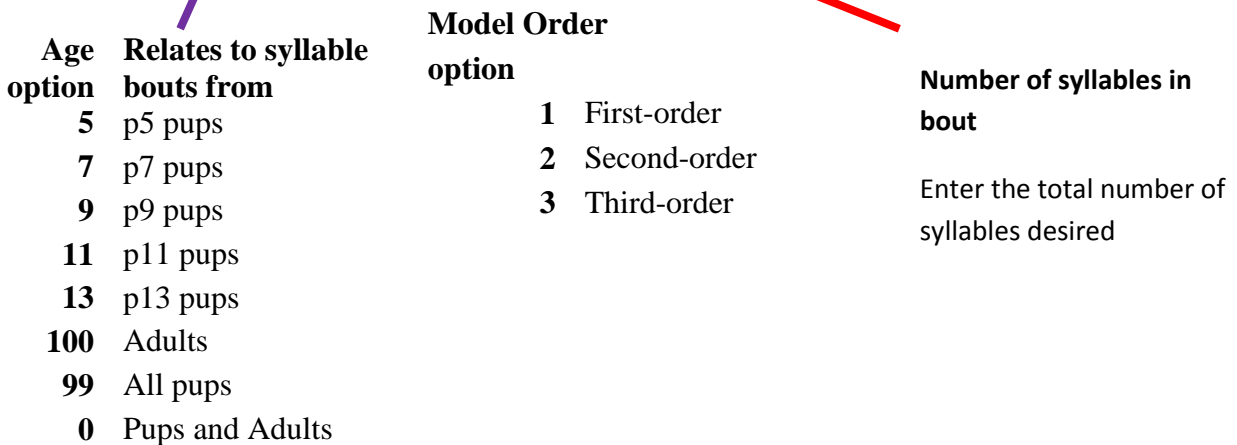
It is also possible to produce bouts of adult syllables with the inter-syllable-intervals and the spectrotemporal properties of adult syllables, but with the sequential structure of pup syllables (generated on the transitional probabilities of pup syllables regardless of pup age), or generic mouse syllables (generated on the transitional probabilities of all recorded syllable bouts regardless of the age of the mouse).

To run program

First, open the ‘mouse_organ’ program file within MATLAB.

The command for the mouse organ has three optional variables;

`mouse_organ(?,?,?)`



For example the command **mouse_organ(5,3,100)** would generate a wav file with syllables and spectrotemporal characteristics corresponding to a p5 mouse pup, using a third-order Markov model, there will be 100 syllables in the bout.

The generated wav file is saved into the ‘current folder’ that contains the program file and associated wav files, the file is named ‘tempmouse.wav’