

Audio Tutorial

This tutorial explains how to create audio files for fMRI paradigms.

Hardware

Microphone – Sony ECM-T115

Soundcard – SoundMAX Integrated Digital Audio. Any Creative Sound Blaster card that is 16-bit or higher will also do. Some examples are Sound Blaster Live! or Sound Blaster Audigy.

Software

Adobe Audition (formerly Cool Edit Pro)

Procedures

Attach the microphone to the microphone input of the sound card. Make sure the microphone recording volume is set to around 90%. This can be done in Control Panel -> Sounds and Audio Devices -> Audio tab -> Sound Recording - Volume.

Open Adobe Audition. Choose File -> New Wave Form. Select 48000 for the Sample Rate, Mono for Channels, and 16-bit Resolution. Start recording by clicking the record button on the bottom left. Speak fairly loudly and clearly. Stop recording by clicking the record button again. Play back the recording by pressing the play button. If the recording is satisfactory, save it by choosing File -> Save As and then entering a name for the file. Save as type mp3PRO if recording voice. If the recording is not satisfactory, erase it by selecting Edit -> Cut or Ctrl-X. This will delete the highlighted areas. You may also select parts of the recording to be deleted by highlighting them and selecting Edit -> Cut or Ctrl-X.

If the recordings need an increase in volume, amplify them by selecting from the menu – Effects -> Amplitude -> Amplify. Typically, a 6 dB boost will be sufficient, but experimentation may be needed to reach the appropriate volume desired.

Once all the recordings have been made, exit Adobe Audition and import the files into Adobe Premiere. Follow the directions in the SOP for creating paradigms for the SCS in order to finalize the paradigm.