

# Composition: Electronic Media I

Fritts

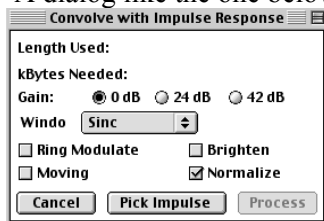
Fall 2004

## SoundHack Overview

- 1) The **File** menu displays the following functions:
  - a) Record New: used for recording a mic/line signal through the Mac input.
  - b) Open: Opens standard audio files. You can also drag and drop these files onto the **SoundHack** icon.
  - c) Open Any: Opens unusual or headless files, sometimes with interesting results.
  - d) Close: Close any selected open file.
  - e) Split Into Mono Files: Splits a stereo interleaved file into 2 mono files.
  - f) Import: Snd Resource (Games), CD track.
- 2) The **Edit** menu does not appear to be useful.
- 3) The **Hack** menu displays the following functions:
  - a) Binaural Filter: Used to stereoize mono files according to vertical and horizontal placement of source relative to ear. Fixed angle or moving angle possible.
  - b) Convolution: Discussed below.
  - c) Spectral Dynamics:
  - d) Mutation
  - e) Phase Vocoder
  - f) Varispeed
  - g) Spectral Extractor
  - h) Normalize

- 4) To use the **convolution** function, do the following:

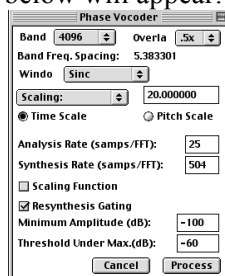
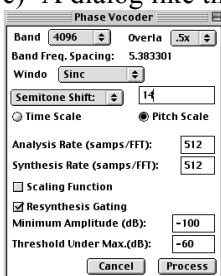
- a) Open any soundfile you wish to convolve.
- b) Select **Hack>Convolution**
- c) A dialog like the one below will appear:



- d) Select the options shown above, then click on "Pick Impulse".
- e) An **open** dialog will appear. Select a very short soundfile to use as an impulse.
- f) Click on "Process".
- g) A new file will be created named "file1 \* file2".

- 5) To use the **Phase Vocoder**, do the following:

- a) Open any soundfile you wish to transform in pitch or time.
- b) Select **Hack>Phase Vocoder**
- c) A dialog like the ones below will appear:



- d) The dialog settings shown on the left will transpose the pitch of the soundfile up 14 semitones (-14 will transpose down).

e) The dialog settings shown on the right will time stretch the soundfile to 20 times its original length.