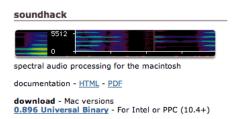
Composition: Electronic Media II

Spring 2011 Assignment 1

- 1. Assignment 1 will be presented in class on Feb. 7, 2011.
- 2. The purpose of this assignment is to learn through documentation and experimentation the different types of signal processing sound transformations available in SoundHack.
- 3. SoundHack is freeware and can be downloaded for Mac at: http://www.soundhack.com/freeware.php. The latest version is 0.896 Universal Binary, as shown below.



- 4. Documentation can be opened in html or downloaded as a PDF file.
- 5. SoundHack works by opening an aiff soundfile, then selecting the Hack menu, whose items are shown below:

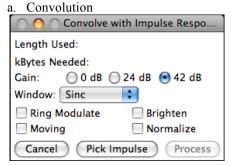
Header Change Loops & Markers	₩H ЖL
Binaural Filter	₩B
Convolution	ЖC
Spectral Dynamics	ЖD
Gain Change	ЖG
Mutation	ЖM
Phase Vocoder	ЖP
Varispeed	₩٧
Spectral Extractor	ЖX
Spectral Analysis	# -
QT Coder	жu
Normalize	# ;

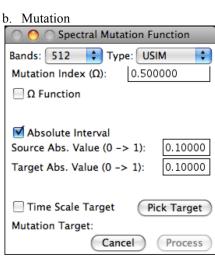
- 6. Each student in class will give a 20-30 minute on one of the processes shown below:
 - a. Convolution: Yunsoo.
 - b. Mutation: Matt
 - c. Phase Vocoder: Stephanie
 - d. Varispeed with drawing function: Tyler
 - e. Spectral Extractor: Brian (who has the option of presenting one of the plug-ins as discussed in class).

7. Each student will prepare 16 soundfiles with the following attributes:

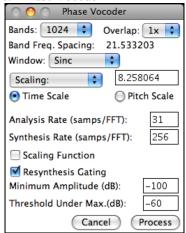
Soundfile	High	Low	Short	Long	Pitched	Unpitched	Monophonic	Polyphonic
1	٠		•		•		•	
2	•		•		•			•
3	•		•			•	•	
4	•		•			•		•
1 2 3 4 5 6	•			•	•		•	
6	•			•	•			•
7	•			•		•	•	
8 9	•			•		•		•
9		•	•		•		•	
10		•	•		•			•
11		•	•			•	•	
12		•	•			•		•
13		•		•	•		•	
14		•		•	•			•
11 12 13 14 15 16		•		•		•	•	
16		•		•		•		•

- 8. Each student will make a handout using the format of those in class. Screen snapshots are essential. The most important functions of each process should be listed in the handout and discussed in class.
- 9. Each function should be demonstrated with before and after examples using some of the soundfiles prepared in Step 7, above.
- 10. Below are some of the processes from the Hack menu:

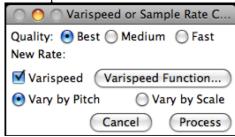


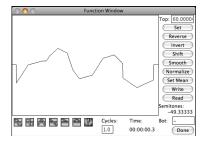


c. Phase Vocoder



d. Varispeed





e. Spectral Extractor

