

**Composition: Electronic Media I**

**Sept. 24, 2007**

**Assignment 2**

1. Properties of a sound mass:
  - a. Density distribution: the number of grains that occur over time.
  - b. Seed: a short soundfile, between 0.2 and 0.6 seconds.
  - c. Grain: a seed that has been transformed by duration, envelope, loudness, and pitch.
  - d. Grain Envelope: the shape of the attack and tail of a grain
  - e. Grain duration: the length of a grain, produced by modifying time-stretching, time-compressing, snip off beginning, and snip off ending.
  - f. Grain pitch: produced by varispeed or non-varispeed pitch-shift.

2. Density:

Time	0:00	0:02	0:04	0:06	0:08	0:10					
Density	4	12	21-30								
Envelope											
Pitch											
Duration											

Sound Mass Worksheet

Time									
Density									
Envelope									
Pitch									
Duration									

Time
Smallest number of grains
Greatest number of grains
Average number of grains
Shortest grain duration
Longest grain duration
Average grain duration
Percentage of sharp attack, sharp decays
Percentage of sharp attack, medium decays
Percentage of sharp attack, gradual decays
Percentage of medium attack, sharp decays
Percentage of medium attack, medium decays
Percentage of medium attack, gradual decays
Percentage of smooth attack, sharp decays
Percentage of smooth attack, medium decays
Percentage of smooth attack, gradual decays
Lowest pitch
Highest pitch
Average pitch
Shortest grain duration

Longest grain duration
Average grain duration
Percentage of short grains
Percentage of medium grains
Percentage of long grains
Percentage of left-panned grains
Percentage of right-panned grains
Percentage of center-panned grains
Percentage of grains with 100% amplitude
Percentage of grains with 80% amplitude
Percentage of grains with 50% amplitude