

COMSW4115: Programming Languages and Translators

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1 Terminology

- 1) Note: atomic element specifies a sound comprised of:
 - a) Duration: measured in beats (which correspond to the elapsed time interval during which the sound is present)
 - b) Pitch: tonal frequency (function or discrete values?)
 - c) Aplitude: volume
 - d) Wavetype:
 - Sine
 - Square
 - Sawtooth
 - Triangular
 - e) Wave Envelope:
 - Attack: ramp from silence to peak volume
 - Decay: small drop from peak to functional volume
 - Sustain: operating volume sustained from end of decay volume
 - Release: ramp down from sustain volume to silence
- 2) Chord: collection of notes initiated at the same time (is this sufficient?)
- 3) Track: collection of *Notes* and *Chords* organized over a time interval the length of the *Song*; no notes or chords are played at the same moment within a track (see song definition and think iMovie) audio tracks.
- 4) Song: a collection of superimposed *Tracks* that run the full length of the song (begin simultaneously and end simultaneously – maybe track-offset is an effect? needs consideration of narrowness)