

# *Marionettes*

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Duration 8 mins.

Piano solo with Moogbar and live electronics (Max/MSP)

**Score:**

- Time-space notation is used, each bar is approximately 15 seconds.
- Square noteheads indicate that a chromatic cluster should be played approximately in the area notated, and approximately as wide as notated.
  - Play the cluster as evenly as possible, all notes should sound together.
  - Pitches are not specific here, except in b.10 where the same cluster is repeated.
- White noteheads are long notes, allow them to die away where possible. Black noteheads are shorter and should be cut off but not staccato.
  - Pedal should be used *ad lib*: white-note clusters should bleed into each other, black-note clusters should be cut off, but not staccato.
- l.h. notes are pitch specific and are always very quiet (except b.22)
- The few accented notes are very important, especially the final staccato notes.

**NB:** clusters should always be played before bass notes, especially where they appear on the score to be simultaneous.

**Electronics:**

- The moogbar is a key velocity sensor, it uses light to detect which keys are depressed and the velocity.
- Here, the r.h. clusters are sustained as sine-tone clusters fading in under the piano sound. The frequency of the l.h pitches are subtracted from random notes in the sustained clusters, creating a small (often almost un-noticeable) glissando in the cluster: the marionettes in question, the bass notes are tied as though with strings to the clusters above.

**Sound:**

- Acoustically, the piano and electronics should merge together and sound almost as one. Thus, the notated staccato attacks are an important counterpoint, separating the piano and electronic momentarily.

