Chapter 16. Meeting 16, Workshop: Performance and Improvisation

16.1. Announcements

• Due this Wednesday 6 April: Controller/Interface/Instrument Design 2 Proposal

• Performance Frameworks groups will be posted tonight

• Due Wednesday 13 April: Performance Frameworks Draft

  Must email me immediately with special requests for groups (will send out tonight)

• End of semester concert is set for May 4:

  Sonorous Currents:  
  A Concert of 21M.380, Live Electronics Performance Practices  
  Wednesday, May 4, from 4 to 5 PM  
  Lewis Music Library, MIT  
  New works for live electronics with laptops, iPhones, circuits, and other sonological mechanisms.  
  Free and open to the public.

16.2. Performance Frameworks Groups

• Groups of 2 to 4 students - names removed for privacy

16.3. Reading: Collins, Handmade Electronic Music


• The Hex Schmitt Trigger digital logic chip: six inverters on a chip

• Given an input of 1 (9 volts) output 0 (0 volts) and vica versa
• The resistor permits feedback, causing alternation between 9 and 0 volts and producing a squarish sound wave

• 74C14 Pins

• Using a resistor to create feedback oscillation
• Breadboard
• Varying resistance changes the frequency of oscillation
• A photoresistor decreases resistance with more light, increases resistance with less light
- Varying the capacitor sets the range of oscillation
- Breadboard
16.4. Exercise: Improvisation with Controller/Interface/Instrument Design 1

- Load: instruments created for Controller/Interface/Instrument Design 1
- Ensemble: each person enter staggered; do ostinato layers

16.5. Work II

- Load: arizaWork02-performance*.test.pd

  martingale/compositions/arixaWork02/arizaWork02-performance*.test.pd

- Focus on texture and heterophony
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