

21M.380

**Music and Technology: Live Electronics Performance
Practices**

Christopher Ariza

21M.380: Music and Technology: Live Electronics Performance Practices
by Christopher Ariza

Table of Contents

1. Meeting 1, Foundations: Live Electronics	1
2. Meeting 2, Foundations: Sounds, Signals, Samples, and Encodings	31
3. Meeting 3, Foundations: Envelopes, Filters, Modulation, and Mixing.....	46
4. Meeting 4, Foundations: Managing Events, Signals, and Data	56
5. Meeting 5, Workshop: Performance and Improvisation	71
6. Meeting 6, Foundations: Processing and Transforming Sounds.....	76
7. Meeting 7, Workshop: Performance and Improvisation	85
8. Meeting 8, Practices: The Early History of Live Electronics	92
9. Meeting 9, Practices: Extending Common Physical Controllers.....	97
10. Meeting 10, Workshop: Performance and Improvisation	113
11. Meeting 11, Practices: Touch Interfaces and OpenSoundControl.....	116
12. Meeting 12, Practices: Laptops and Laptop Orchestras	128
13. Meeting 13, Workshop: Performance and Improvisation	138
14. Meeting 14, Practices: Analog Electronics and Circuit Bending	141
15. Meeting 15, Practices: Electronics and Sensors.....	151
16. Meeting 16, Workshop: Performance and Improvisation	168
17. Meeting 17, Practices: Approaches to Composing Improvisations.....	174
18. Meeting 18, Practices: Timing and Networking.....	193
19. Meeting 19, Workshop: Performance and Improvisation	202
20. Meeting 20, Workshop: Performance and Improvisation	206
21. Meeting 21, Practices: Novel and Custom Interfaces	207
22. Meeting 22, Workshop: Performance and Improvisation	209
23. Meeting 23, Practices: Live Coding, Live Algorithms, and Generative Techniques	210
24. Meeting 24, Workshop: Performance and Improvisation	211
References	212

MIT OpenCourseWare
<http://ocw.mit.edu>

21M.380 Music and Technology: Live Electronics Performance Practices
Spring 2011

For information about citing these materials or our Terms of Use, visit: <http://ocw.mit.edu/terms>.