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Hewitt, Scott

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The Laptop as an Ensemble Instrument; Methods and Concerns

Scott Hewitt, scott@ablelemon.co.uk

Historical Review

Networked Computer Music

- The League of Automatic Music Composers 1978
- The Hub 1985

Live Coders

- Alex Mclean - `feedback.pl` 2004
- Eric Lyon

Computer Interaction

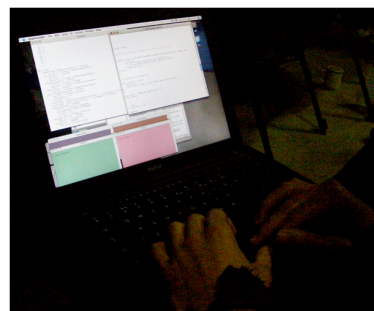
- Lawrence Casserly
- George E. Lewis

Significant Ensembles

- Plork, The Princeton Laptop Orchestra
- Power Books Unplugged
- Moscow Laptop Cyber Orchestra

Styles

- Live coding
- DSP Processing
- Sample Playback
- Live Algorithms
- Extended Instruments
- Remote Performance



Laptop Instrument Features

Infinite Sound Source

- Imagine and realise an unheard sound
- Multiple instruments

Dynamic performer / instrument relationship

- Customisable/Unstable/Fluid interface
- Dilution of muscle memory gains
- Enhanced accessibility

Schizophonia

- Distortion of sonic cause
- Sound abstracted from generational effect
- Removal of source and context of sound

Temporal/Locational Shift

- Relocate sound in time
- Reposition event in location

Capture Realtime Gesture

- Translate, refine gesture to purpose
- Dynamic analytical score creation

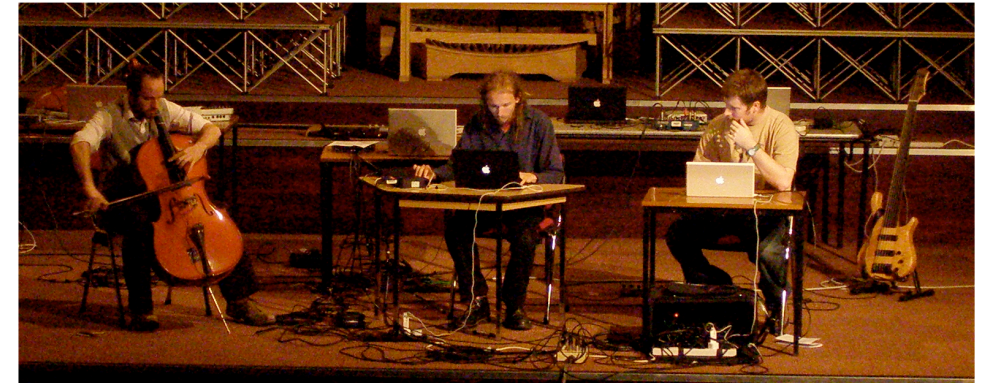
Connectivity

- Realtime and interactive
- MIDI, Wireless, WIFI, Bluetooth

Practical Experimentation

Straight Laptop Preserve

An experimental laptop trio exploring laptop improvisation, live coding and network connectivity.



Inclusive Improv - NetMixer

Experimenting with improvisation between laptop and acoustic instruments, making use of the purpose built NetMixer software.



Laptop Concert Series

A series of concerts exploring laptop performance and seeking to investigate audience and performer expectations.

