Dynamic cross-domain expression:

notation, interpretation, technology and performance

INTIME

Coventry University, October 2015

This presentation is available here: http://rhoadley.net/presentations/intime.pdf

v0.03

Interdisciplinarity

All of us (Katharine, Philip and myself) have an interest in interdisciplinarity, collaboration and cross-domain expression.

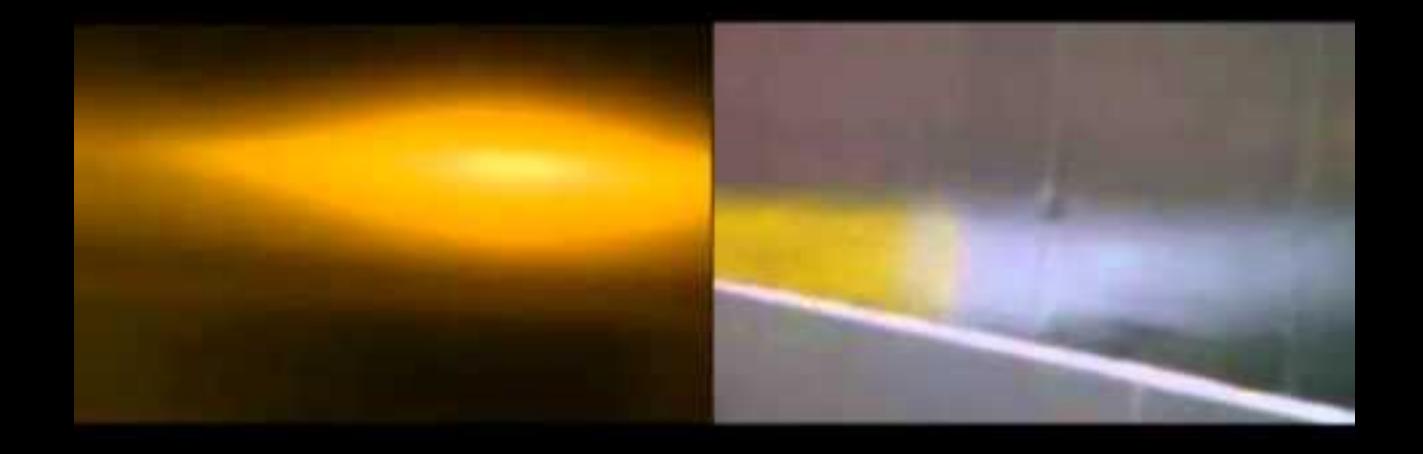
I'm particularly interested in **live notation** which has a unique effect on musical composition – joining **dots** with **signals** and **fixed, written performance** in the classical western tradition with **improvisation**.

Wright & Van 't Hoog Video 'Orpheus Trio' Philip Mead Piano Improvisation Six Iterations

Artists Michael Wright & Henriëtte Van 't Hoog Video *Orpheus Trio* with Philip Mead *piano improvisation*.

Orpheus trio was created from short video clips of every day phenomena orchestrated to create a concrete art animation (of seven minutes duration). Philip Mead generated six improvised iterations responding to the artwork, each one exploiting a different potential of the piano.

online



Katharine Norman

- Making Place to be performed a unique mixture of text, music and performance.
- It would be great to try How To Play with a live reading, but I'm rather lazy and cowardly.

What are expressive domains?

This presentation demonstrates one aspect of **practice-led** research which seeks to **translate** between **expressive domains** using **technology**. An expressive domain is a form of artistic expression such as **music**, **dance**, **text**, or **images and patterns**. Information is taken from one domain and translated into another in **real-time** allowing **synchronous** performance. Music is **already cross-domain**: it is formed of **physical action** to create **patterns**.

ee I haven't practiced dancing, I just copy the music 99

Three research streams

- 1. algorithms (patterning)
- 2. physical computing (real world interaction)
- 3. notation/representation (and therefore performance and interpretation)

Live Notation

- This presentation focuses on live notation, its possibilities and difficulties.
- Live notation's development has gained in momentum over the last few years as associated technologies have improved.
- MaxScore (Didkovsky), Bach Project (Aghostini and Ghisi)(both MaxMSP based and in part CAC systems), Lilypond and other more bespoke systems. I use SuperCollider and INScore (Fober).
- There is currently **no** widely accepted solution, (although there is more work being undertaken in the area).

Features of Live Notation

- importance of exploitation of performers instrumental virtuosity and learned response
- balance between fixed notated performance and improvisation
- synchronisation with multi-domain live performance

Features of Live Notation

- novel forms of notation, no longer fixed on the page, (although this has its own issues).
- the results don't have to be all one way or another, you can mix precise, pre-composed music with graphics and text.
- it is straightforward to add or remove elements the 'live' score can itself be finalised or fluid.

Particular features

The difference between fixed and dynamic scores. I used to do this:



but at the moment I don't particularly want to any more.

The nature of notated music

- Lydia Goehr quotes a letter from Beethoven:
- "I have never [revised my compositions] because even the slightest change alters the character of the composition"
- Letter (in French) of 1813, in Letters of Beethoven, ed., E Anderson (3 vols.; New York, 1961), i. 405). Quoted in Goehr 1992 rev 2007, The Imaginary Museum of Musical Works, p222)

Other aspects

- Improvising with the performer with live code;
- Improvising is possible without notation?
- This allows detailed synchronisation
- It also allows pre-composition, but I haven't wanted to do this yer.

The tools

- provide a structure for the generation of music and/or common practice notation as well as graphical elements
- facilitate communication between SuperCollider and INScore
- offer the beginnings of a more standard interface for physical mapping and live notation





which are located....

- https://github.com/supercollider/supercollider
- http://inscore.sourceforge.net/
- http://rhoadley.net/inscore (on request)

Performances: **System Demonstration**, Natural History Museum, London, June 2014



In particular see little girl in centre frame at 5:45

Semaphore, Cambridge, October 2014



Lost in translation - problems and questions?

- The score is designed to be what it is: leave it alone!
- The importance of **automation** in enabling more complex behaviour at higher levels, as in performance.
- Is this a tool or a composition?
- What about interpretation?
- Live notation: is it too **difficult** to play?

- x, y and z maps to pitch, duration, amplitude, chordal complexity, timbre? Is this all too simplistic? (Yes)
- technicalities: how best to implement **rotation** and display the resulting 'live' notation.
- How do I feel about losing control: what about if I 'come across' a particularly beautiful version. Can I save it? (Currently no, except for taking a screen shot). Should I be able to?

Forthcoming events

- Semaphore Workshop Cambridge Festival of Ideas, ARU, Saturday October 31st, 3:00pm
- Semaphore/Selfies Mumford Theatre, Cambridge, Saturday
 October 31st, 5:30pm
- Three Screens Ian Mitchell, clarinet, Cambridge, April 2016
- TENOR (Technologies for Music Notation and Representation), May 2016, Cambridge - deadline for submissions November 16th 2015. More information at http://tenor2016.tenor-conference.org

Thank you and demonstration

any questions?

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this presentation is available at http://rhoadley.net/presentations as intime.pdf

video recordings of past performances are at rhoadley.net/youtube and rhoadley.net/vimeo