

Collected conference “highlights”

Live Interfaces, University of Leeds, UK

ICMC - Intern. Computermusic Conference, Ljubljana

ICMC - Non-Cochlear Sound

<http://www.icmc2012.si>

Vibrotactile Technology

- Perception of audio range vibrations with fingers and feet for musicians with hearing impairment
- Centre for Music Performance Research Manchester
- University of Liverpool



Live Coding

- IXI Lang
 - based on SuperCollider
- Gibber
 - LiveCoding in the browser
- Performances
 - Cube with Magic Ribbons
 - The Curse of Yig

IXI Lang

- Higher level control of SuperCollider for easy and fast *Live Coding*
- Developed by Thor Magnussen - University of Brighton
- <http://www.ixi-audio.net/ixilang/>

```
!ll -> drop[1 5 2 3 ]
!ll((
!loo -> drop[1 5 2 3 ]+12!16
id -> |sdx g kek xui dg |
id -> || |sdx g kek xui dg |

5 ]
2 ]+12!16
5 4 ]+12
4 3 7 ]+12!36
w |
i |
st !116
e cx g ds |
gh fwuncrn oc !116

swap john
group drummer -> ringo ring1 ring2 ring3 ring4
group melody -> aa john hey hex
```



Gibber

- Browser based *Live Coding* JavaScript - Google Chrome
- Developed by Charles Roberts - University of California, Santa Barbara
- <http://www.charlie-roberts.com/gibber/>

```
GIBBER Load Save Join Session Help
// This is a sample of what Gibber can do and is
// intended as a tutorial. There are many tutorials
// the Load menu at the top of the screen.
//
// Run lines in between comments one section at
// by highlighting them and hitting ctrl + shift
// Or select everything at once and run it all

G.setBPM(140)

// x is a kick, o is a snare
d = Drums("x.ox.xo.");

// karplus-strong can create string or noise sounds
p = Pluck();
p.amp = .3;
p.blend = .5;

// sequence pluck with random 16th notes
s = ScaleSeq(fill(), _16).slave(p);
s.root = "C2";

// create bass synth with 1000ms attack, 2000ms
b = Synth(1000, 2000, .65)
b.fx.add( Clip(50) )

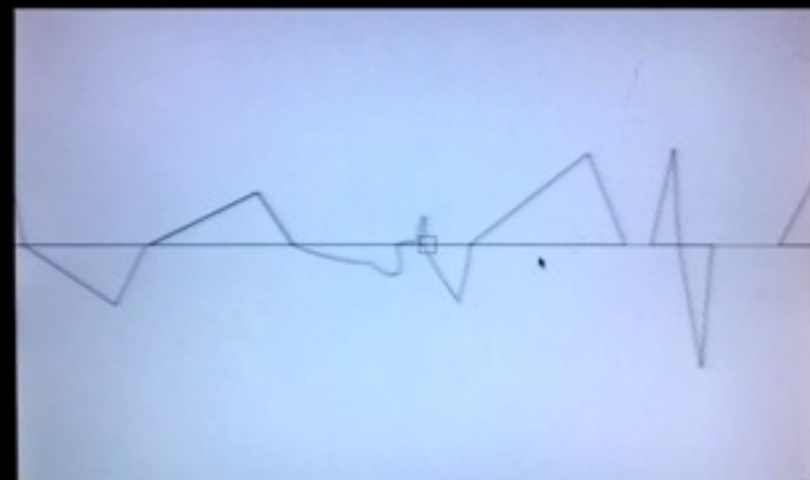
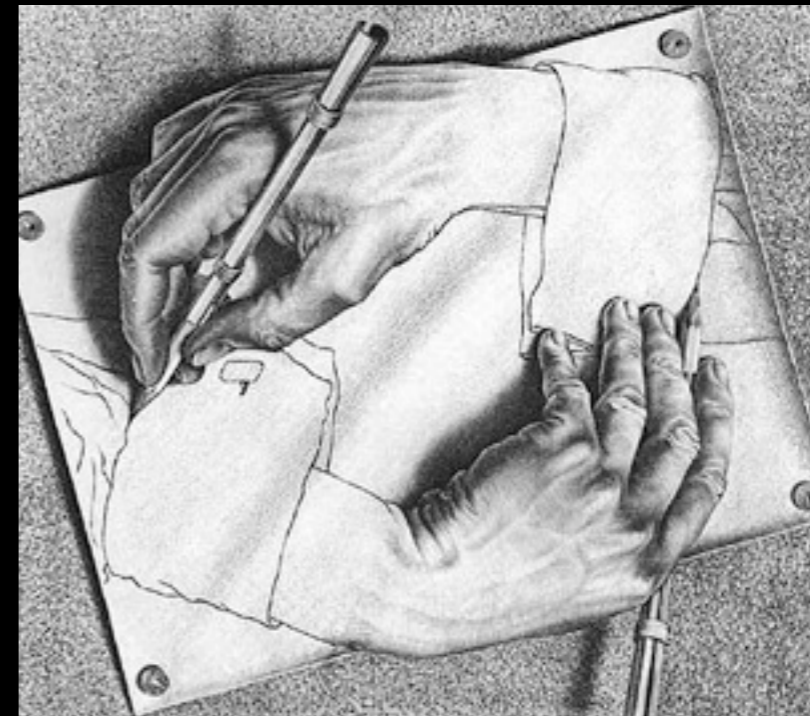
// sequence bass. "sequence" is positions in scale
c = ScaleSeq({
  root : "C2",
  note : [0, -2, -4],
  durations: [_1 * 2, _1, _1],
  slaves: b
});

// add modulation changing blend of karplus-strong
// this will move from string to noise sounds

>
```

Cube with Magic Ribbons

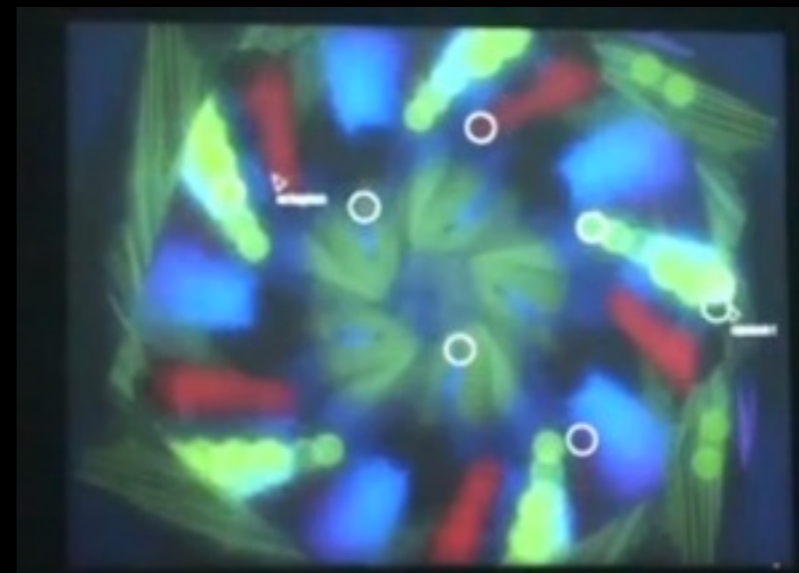
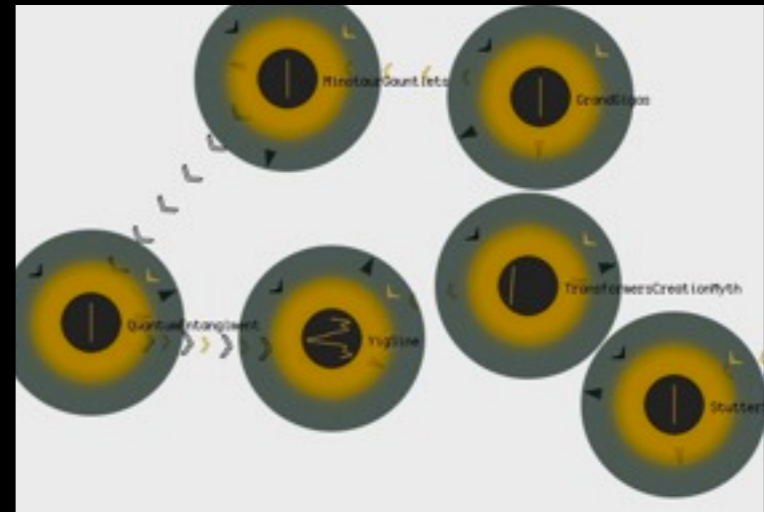
- Audio visual composition dealing with visual paradoxes of M. C. Escher
- <http://vimeo.com/36888504>
- developed using OpenFrameworks and SuperCollider



Glitch Lich

The Curse of Yig

- Intercontinental Network performance Band
- Club environment - need for low bandwidth
- <http://vimeo.com/37880189>
- developed in SuperCollider, Cinder



Composition tools

- Slippery Chicken
 - LISP based algorithmic composition framework
 - <http://www.michael-edwards.org/sc/>
- bach
 - automated composer's helper for Max/MSP
 - <http://www.bachproject.net>

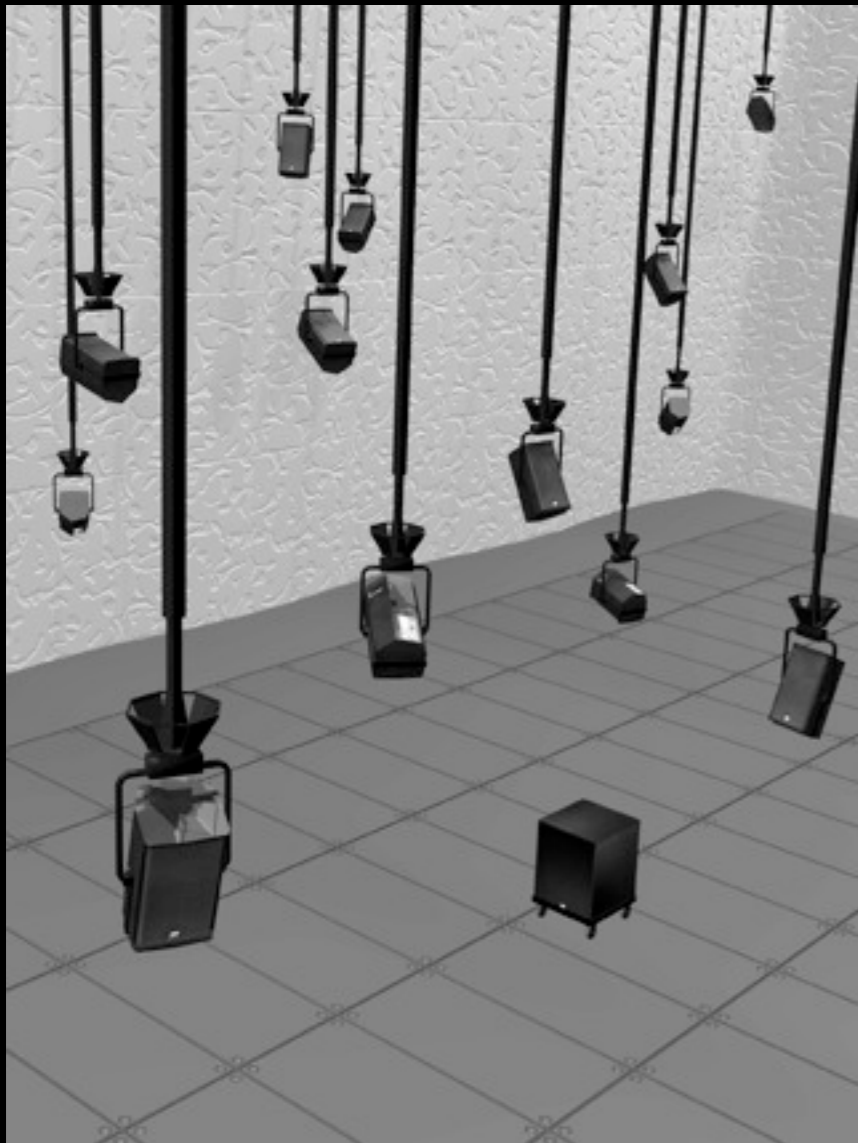
Spatial Audio

- The Choreography of Sound (Mumuth Graz)
- Peter Plessas - Die ganze Welt im Rückspiegel



Choreography of Sound

Mumuth Graz



Icosahedron loudspeaker

Peter Plessas - Die ganze Welt im Rückspiegel



Versatile LS array

