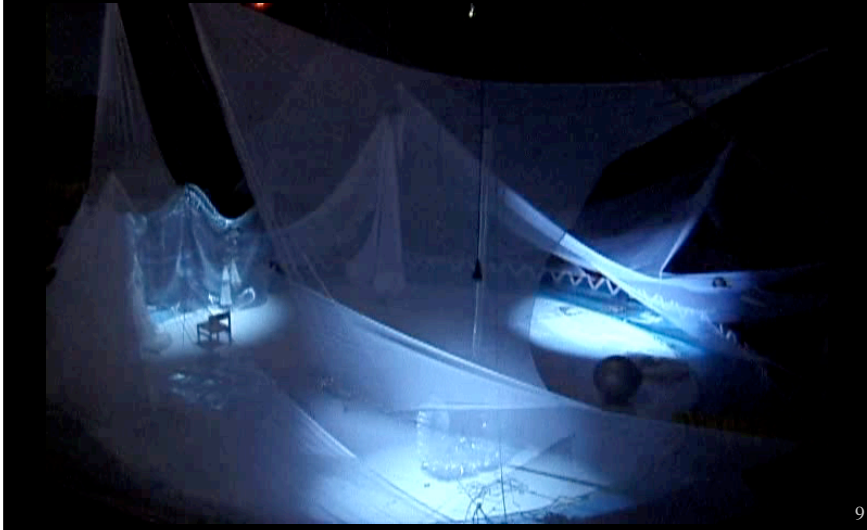
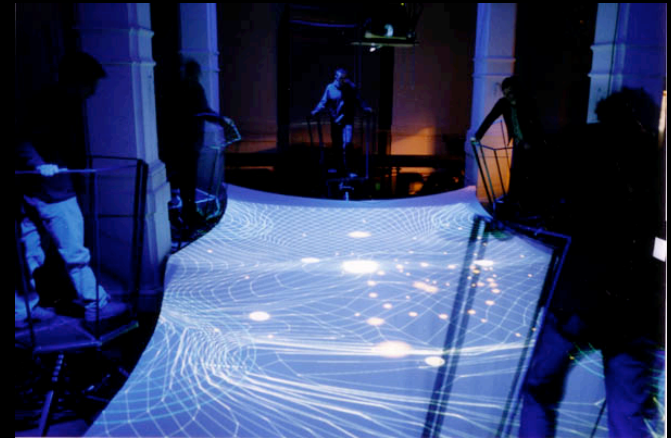


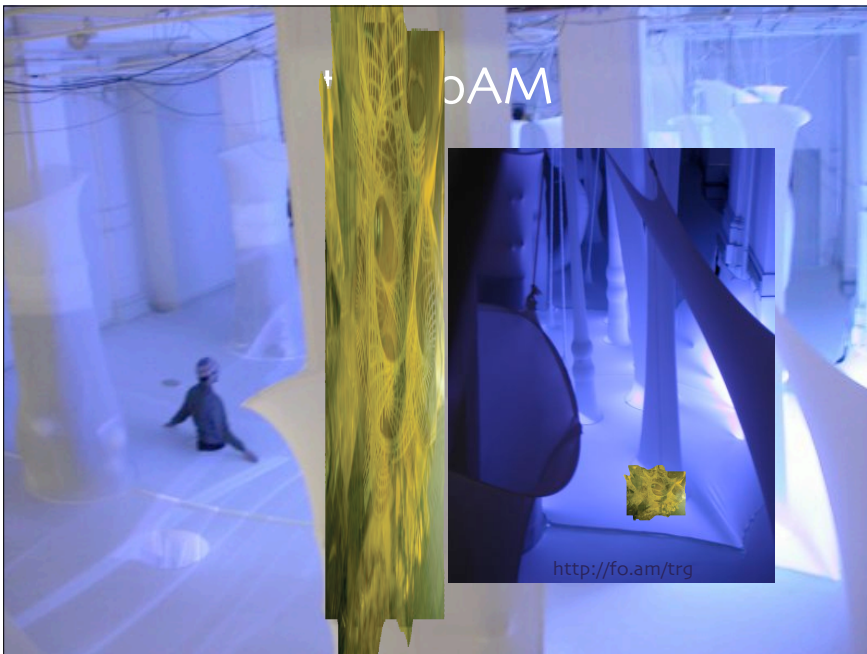
txOom FoAM



A Balanced Act Times Up



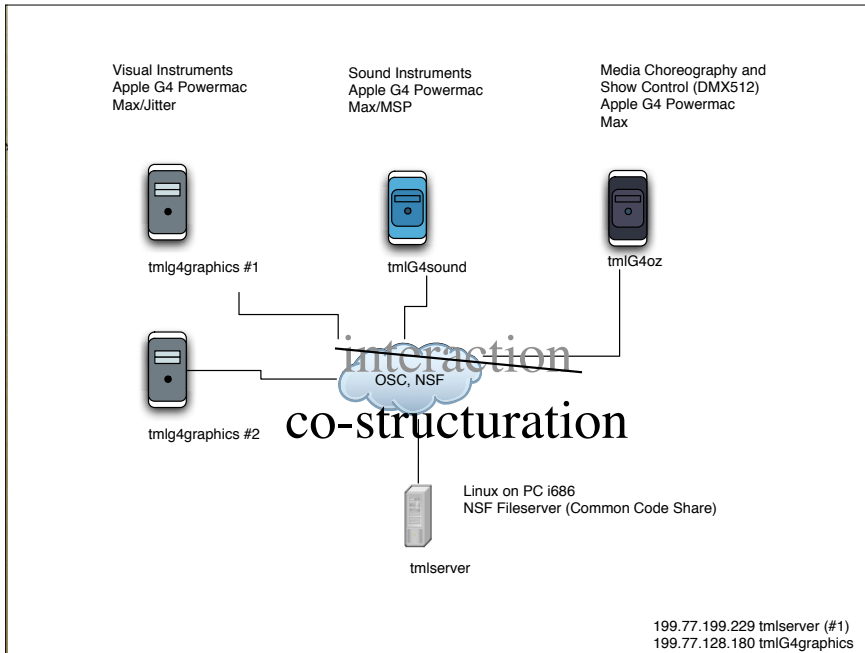
oAM

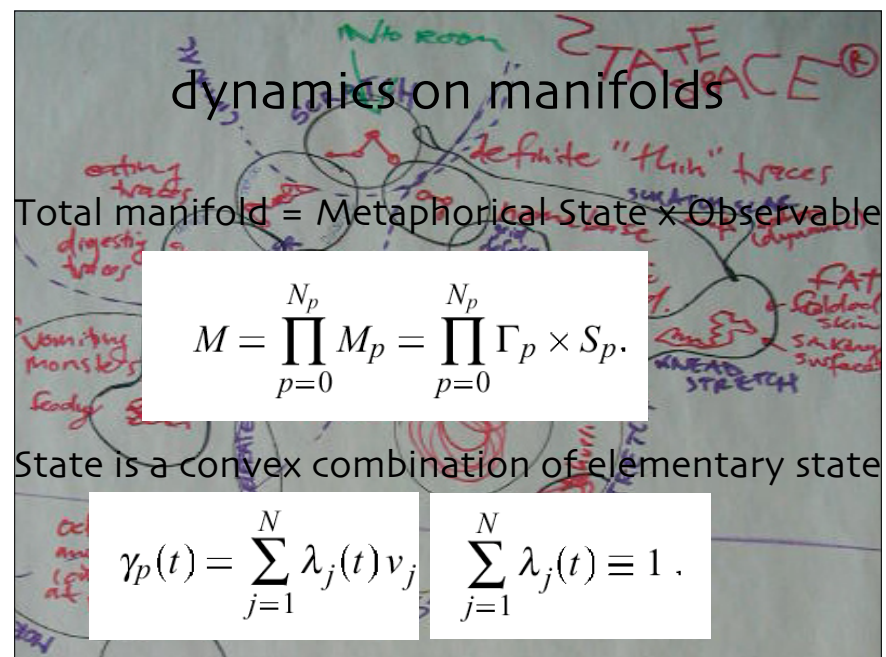
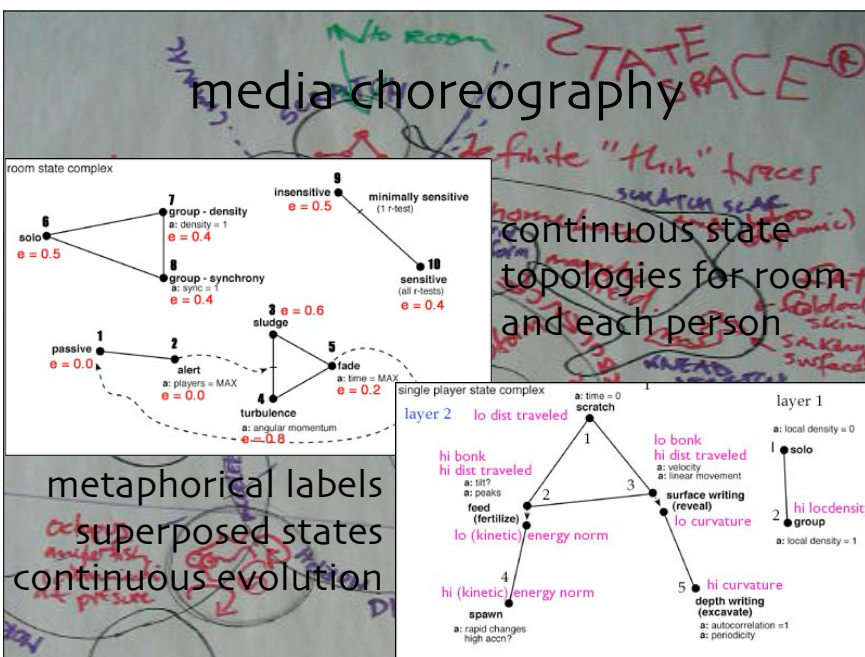


_2 responsive media research

topological media lab
<http://topologicalmedia.concordia.ca>







media choreography

media choreography

dynamics on manifolds

continuous state topologies for room and each person

Total manifold = Metaphorical State \times Observable

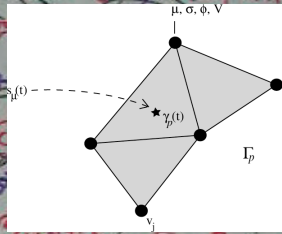
$$M = \prod_{p=0}^{N_p} M_p = \prod_{p=0}^{N_p} \Gamma_p \times S_p.$$

State is a convex combination of elementary state

metaphorical labels superposed states continuous evolution

$$\gamma_p(t) = \sum_{j=1}^N \lambda_j(t) v_j \quad \sum_{j=1}^N \lambda_j(t) \equiv 1.$$

dynamical system on simplicial complex



Metaphor space: meaningful experience, manifold
 State: (convex) combination of pure states
 Potential energy $U = E(\text{sensor}) + E(\text{static})$
 Kinetics: $F = -\text{Grad}[U] / \text{mass}$

e pur si muove



Continuous state evolution in four dimensions. Yon Visell (physics), Harry Smoak + Kevin Stamper (construction and physical computing), Chris Salter + Matthew Warne (sound instruments) TML 2004

Thick/N media choreography



phase change induced by speech and movement energy
 Harry Smoak, Matthew Warne, Kevin Stamper TML 2004



gestural sound: tml @ ubicomp 2003



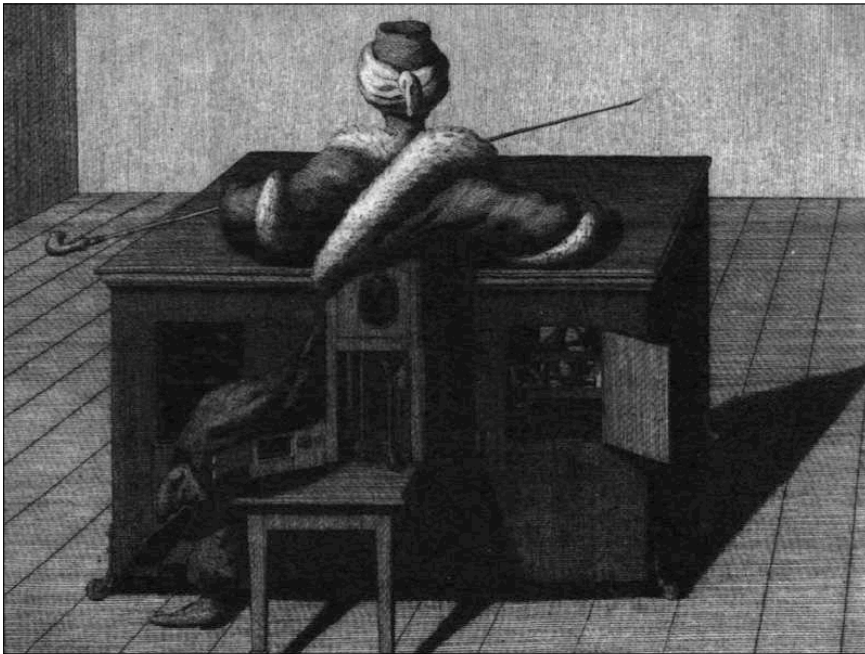
what's at stake?

Ethico-aesthetic Play?

Event?

Gesture?

Tissue and Molecular Politics?



Bill Viola, The Passions



Θαλασσα διαχεεται και μετρεται εξ τον αυτον λογον οκοιοζ προσθεν ην η γενεσθαι.

The earth melts into the sea as the sea sinks into the earth. Heraclitus



what happens to
our blackboxes?

"interaction" "program"
"information" "bit" "sensor" "cpu"
"linguistics" "market" "design" "industry"
"body" "ego" "citizen" "class"
"machine" "human"
...



TML: Calligraphic Video

Realtime synthesis

Physics-based models (2D)

Parametrized by

gesture,

movement,

state

Rich, palpable response

Y. Serita; D. Nain, K. Quennesson; F. Abtan, Y. Asogba,

TML: Gestural Sound

Gesture-mapping

D. van Oort; D. Gaultier

Gestural instruments

Topological Instruments, Sha (Langlois Foundation)

CHAKU: H. Desmoules

WYSIWYG (Hexagram)

Prof. Marcelo Wanderley; F. Abtan, D. van Oort, ...

Synthesis models

TML: Media Choreography

Marshaling rich media, and behavior
evolving according composed dynamics
and contingent activity.

H. Smoak, E. Conrad, F. Abtan, ...

TML: Gesture & Intention

Traces of Intentionality

Y. Visell (McGill, Cooperstock, Levitin, McAdams)

Gesture-tracking

J. Fistre

Related to Gestural Sound

e.g. Gesture Mapping problem

TML: Soft Architecture

Architectural Bodies /

Gins Arakawa; O. Faleh, K. Franinovic, E. Conrad, A.

Palpable Spaces, Latent circuits

E. Conrad; TML Ubicomp team 2003; J. Latek

Symbolically Charged Spaces

Profs. Chris Salter, Michael Montanaro

Excitable Sites: Profs. Joey Berzowska, Barbara Layne, Salter, Sha, M. Coelho, S. Kwok-Choon, E. Conrad

TML: Notnot Puppets

Non-mimetic animation, and animism

Distributed Agency

w. Prof. Mark Sussman

Toy theater workshops

TML: Phenomenology of Performance

Philosophical implications of topological dynamics.

Non-dualistic ontology and felt meaning.
(Damiris et al.)

Movement and affect (Massumi, Manning, N. Asswad, ...)

Other doctoral research

Magda Wesolkowska (U. de Montreal)

Architectural prosthetics, meaning-making in long-term care facilities.

Harry Smoak - Media choreography, critical studies

Matthew Warne (Brown) - Gesture and music

Kevin Quennesson (GaTech) - Time and mimesis

Valerie Lamontagne - Relational performance

Ayesha Hameed - "Outer Space"

<http://thesenselab.com>

Prof. Erin Manning

Prof. Brian Massumi, U. de Montreal

Dancing the Virtual, May 13-16, SAT

Movement of thought, relational movement

(Technologies of Lived Abstraction)

Affiliate Researchers...

Dr. Niklas Damiris (Stanford; SBC)

Eco-economics, alternative modes of production

Dr. Helga Wild (Water Cooler Logic)

Organizational practices, built-space, knowledge production

Dr. Satinder Gill (Cambridge UK)

Tacit knowledge; gesture, coordination, & musicality in social interaction.

Prof. Stefano Franchi (U. Auckland, NZ)

Play and philosophy; Passivity (Wild + Damiris)

Affiliate Artists...

Joel Ryan (STEIM), Evan Parker (March)

Chris Salter, Schwelle (Threshold)

Livia Daza-Paris: Map of Memories

Memories in the body

Collective memory and movement

Emotional archeology and community history

<http://www.zero-th.org/>

Space-time architecture
 public space
 multisensory dynamical systems.

Karmen Franinovic (Concordia),
 Yon Visell (McGill)

KONTAKT (with
 boutiqueviziue)

Human touch for activating
 social spaces.

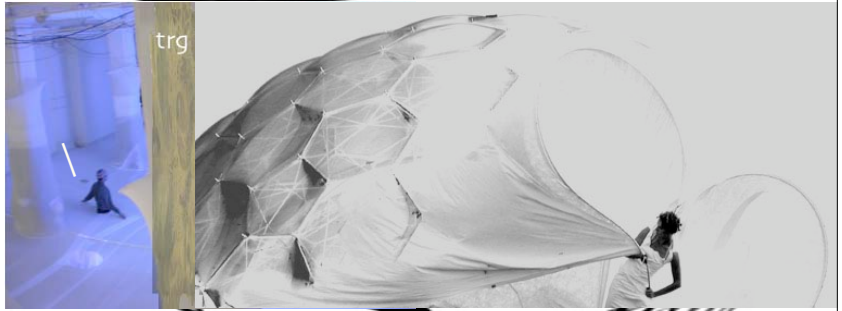
Latent circuits in built space



FOAM

<http://foam.org>

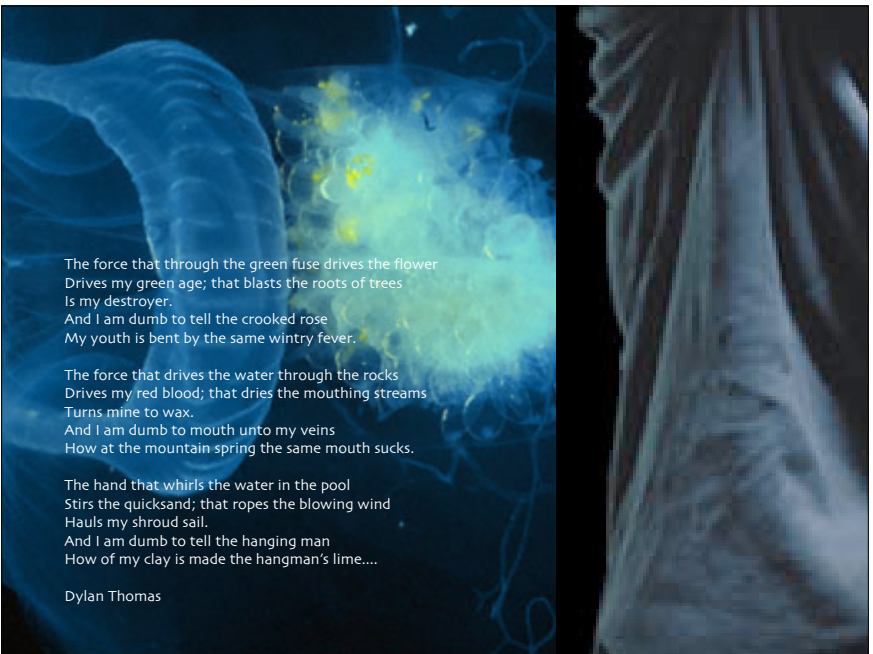
mixed realities / play spaces / groworlds



Maja Kuzmanovic, Niko Kuzmanovic, Lina Kusaito, Cocky Bek, ...



_5 *the potential*



The force that through the green fuse drives the flower
 Drives my green age; that blasts the roots of trees
 Is my destroyer.
 And I am dumb to tell the crooked rose
 My youth is bent by the same wintry fever.

The force that drives the water through the rocks
 Drives my red blood; that dries the mouthing streams
 Turns mine to wax.
 And I am dumb to mouth unto my veins
 How at the mountain spring the same mouth sucks.

The hand that whirls the water in the pool
 Stirs the quicksand; that ropes the blowing wind
 Hauls my shroud sail.
 And I am dumb to tell the hanging man
 How of my clay is made the hangman's lime...

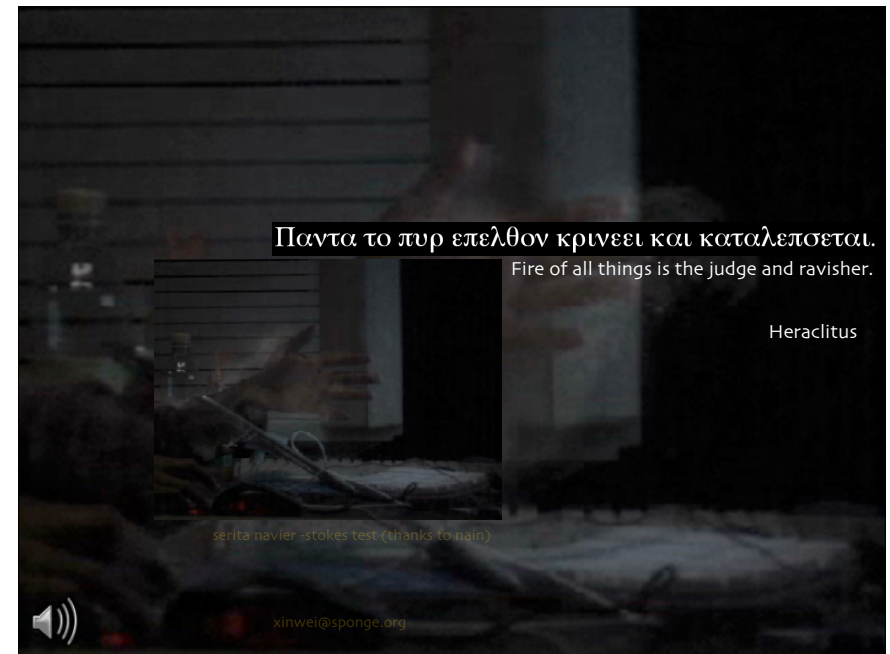
Dylan Thomas

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How of my clay is made the hangman's lime....

Dylan Thomas



Παντα το πυρ επελθον κρινει και καταλεπσεται.

Fire of all things is the judge and ravisher.

Heraclitus

serita navier -stokes test (thanks to pain)

xinwei@sponge.org