

International Association for Semiotic Studies (IASS-AIS) International Semiotics Institute (ISI) | Kaunas University of Technology (KTU) I 3 th World Congress of Semiotics Kaunas, Lithuania, 26-30 June 2017

# VISUALIZING THE CYBERSEMIOTIC EXPERIENCE

**CLAUDIA JACQUES** 



MFA Computer Art Film/Video/Photography Interactive + Technoetic

Graphic Web Interface Information

Elementary School + Montessori Studio + Design + Digital Art Communications

Artist Educator

# Designer Researcher

Advanced PhD Candidate in Interdisciplinary Integrative Arts

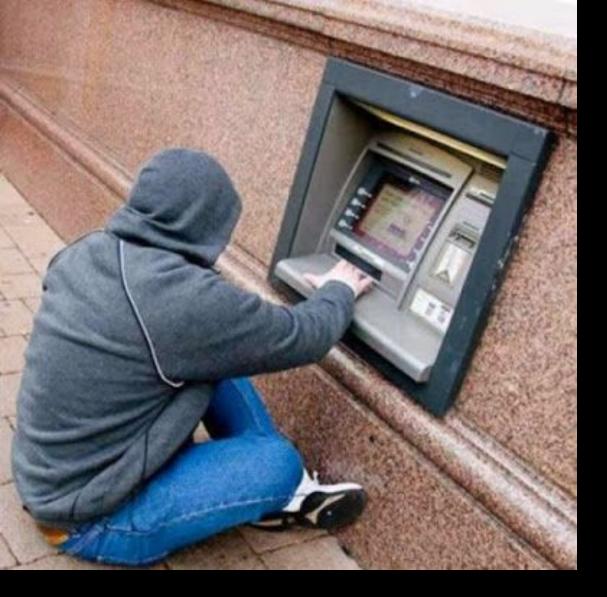
Space-Time Aesthetics in the Meta Environment: A Cybersemiotic Analysis and Case for Knowledge Art

Claudia Ferreira Jacques de Moraes Cardoso Dyslexic + ADHD + Hearing Impaired Brazil + USA

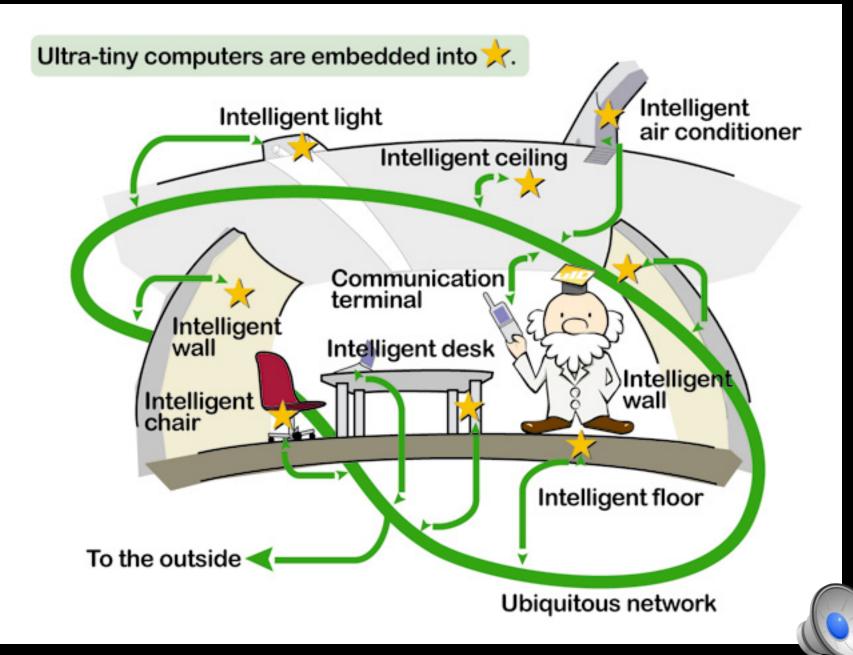












Hi Lee, Michael Lehman from OUR Sydney office is working on the same marketing proposal with you. It might be helpful to connect with him when you built a chance.



# Why Art?

- Skills
- Language
- Aesthetics
- Communication
- Self-Expression
- Awareness + Consciousness



# **Components of Art**

# **Subject Matter**

- The What
- Person
- Thing

## Content

- The Why
- Message:
  - Emotional
  - Intellectual
  - Political

# Context

- Background
- Religious
- Culture/Language
- Political
- Environmental

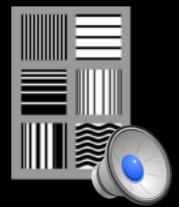
# Form

- The How
- Design
  - Elements
  - Principles

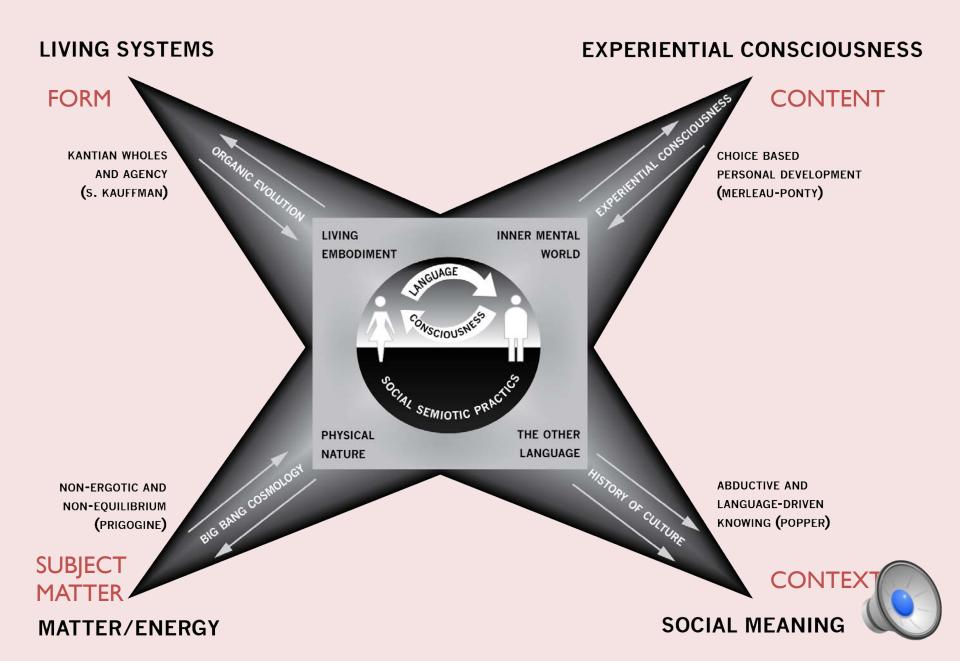








# THE CYBERSEMIOTIC STAR





The understanding of how the Components of Art work together to help us experience art is an established knowledge. Art historians and art practitioners use these four aspects to analyze and understand artworks but when it comes to understanding our reality, we fragment reality in its different aspects. Mind, body, emotional, intuitive. Our experiences manifest holistically but are cut into different areas/fields which don't necessary share the same concepts, words, meaning... Claudia Jacques

Marcel Duchamp, Nude Decending a Staircase, No. 2, 1912 Oil on canvas, 58 x 35 in. HUMAN PERCEPTION semiotics

user

physical

embodied

temporal

meaning

perception

COMPUTER INTERFACE PROCESS

cybernetics, information design, digital media

#### interface

physical & digital embodied & disembodied temporal & atemporal logic

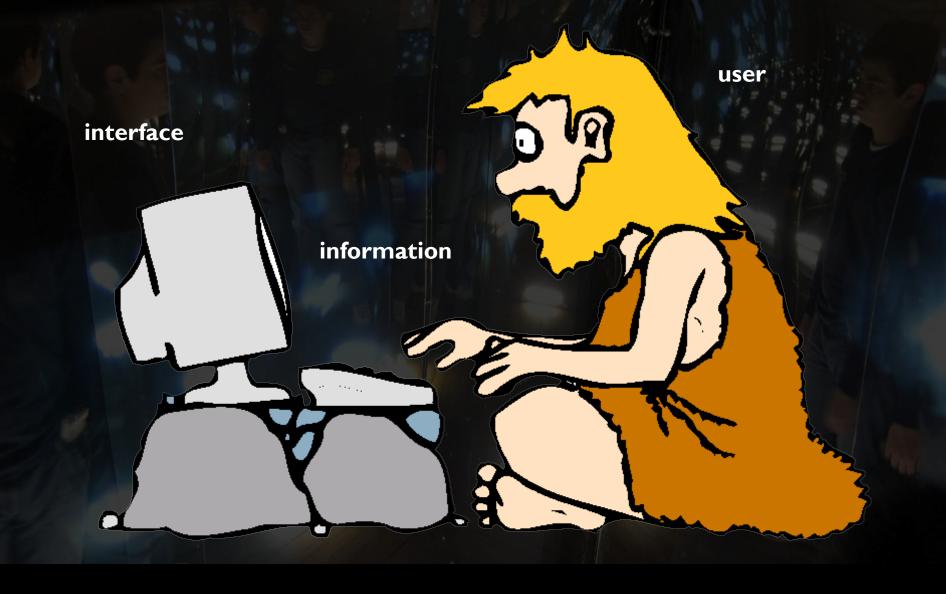
> information digital logic processes disembodied atemporal

INTERFACE DESIGN

# **Perception x Proces**

perception meaning **information** 

#### USER EXPERIENCE



# Meta-Environme



# Human element

# "One that uses" something: • information • interface





- Entropic transmission of data and metadata in binary format that generates communication as a whole.
- Metadata is not only the description of the content but also the description of the structure of the content.
- "A difference that makes a difference" Gregory Bateson's definition of a "bit" or "elementary unit" of information.

## information

Weiner, 1948, 1965, p61 Shannon & Weaver, 1959, p100



'Interface is described in physics as a "surface separating two phases of matter."

Encyclopaedia Britannica

# physical machine, hardware

computer, cell phone, tablet, refrigerator, door lock etc.

software, applications and processes utilized by these machines

Medium – hardware+software – that facilitates the interaction between humans and information.

interface



#### user

Cybersemiotic Eramework

## interface

### information



"Cybersemiotics is a transdisciplinary theory of Information, Cognition, Meaning, Communication and Consciousness that integrates Cybernetics and Peircean Semiotic paradigms in a COMMON framework."

Soren Brier, 2008



# Cybersemiotic Framework interface information user

physical | emotion | meaning

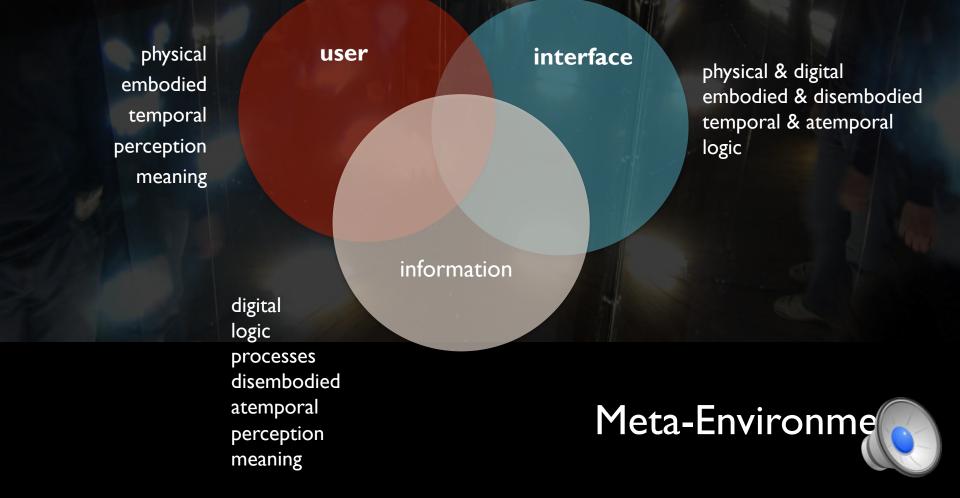
digital | logic | meaning

physical | digital | logic

"Information and meaning, logic and emotion have to be united in new creative ways." Brier



It is also important to consider in this analysis the understanding that the Meta-Environment is here seen as a closed system with three distinctive interactive elements, and individually each element have many distinctive interactive parts. As such, it can be regarded as a Dynamic Complex System where the influence of the individual elements on the system is greater than the sum of these elements (nonlinearity) affecting the system's predicted stability – chaos (Gershenson and Heylighen, 2005.)



# Meta-Environment

Categories/Elements	User	Information	Interface
Spatiality	Physical	Digital	Physical + Digital
Temporality	Temporal	Atemporal	Temporal + Atemporal
Essence	Atoms	Bits	Atoms + Bits
Sign Processes	Subjective	<b>Objective + Subjective</b>	Objective
Embodied Cognition	Embodied	Disembodied	Embodied+Disembodied <sup>17</sup>
Dynamic Complexity	Linear + Nonlinear	Nonlinear	Linear

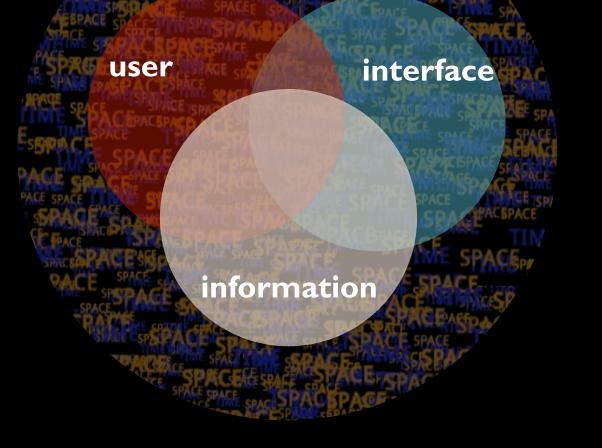
Table 1

Generative Dynamic Complex Adaptive System



# Meta-Environment

Context



Generative Dynamic Complex Adaptive System The Cybersemio Experience

## Meta-Environment

Context

#### user

## interface

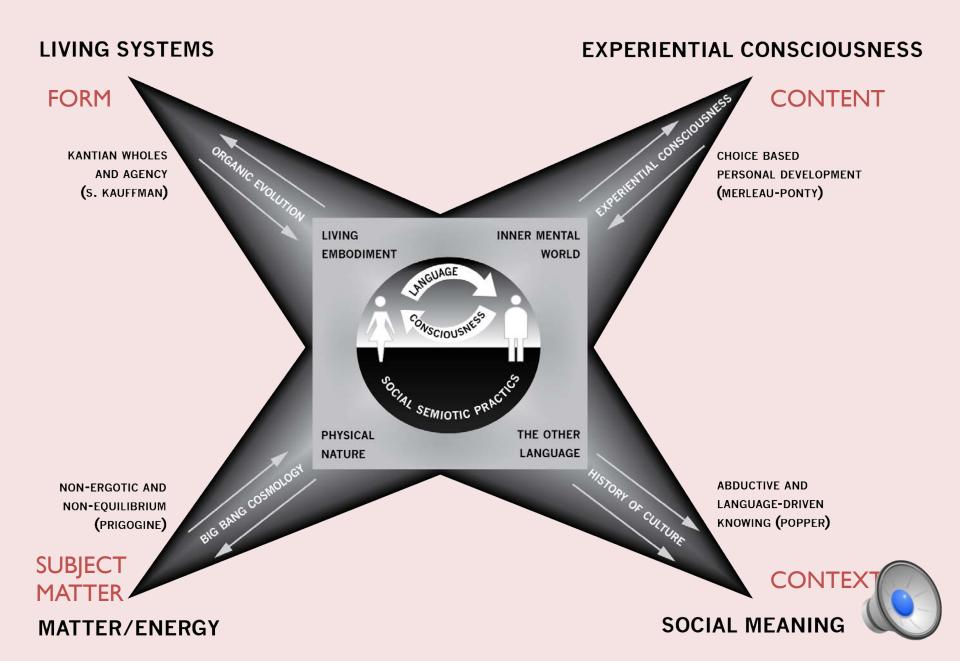
# CYBERSEMIOTIC EXPERIENCE

information

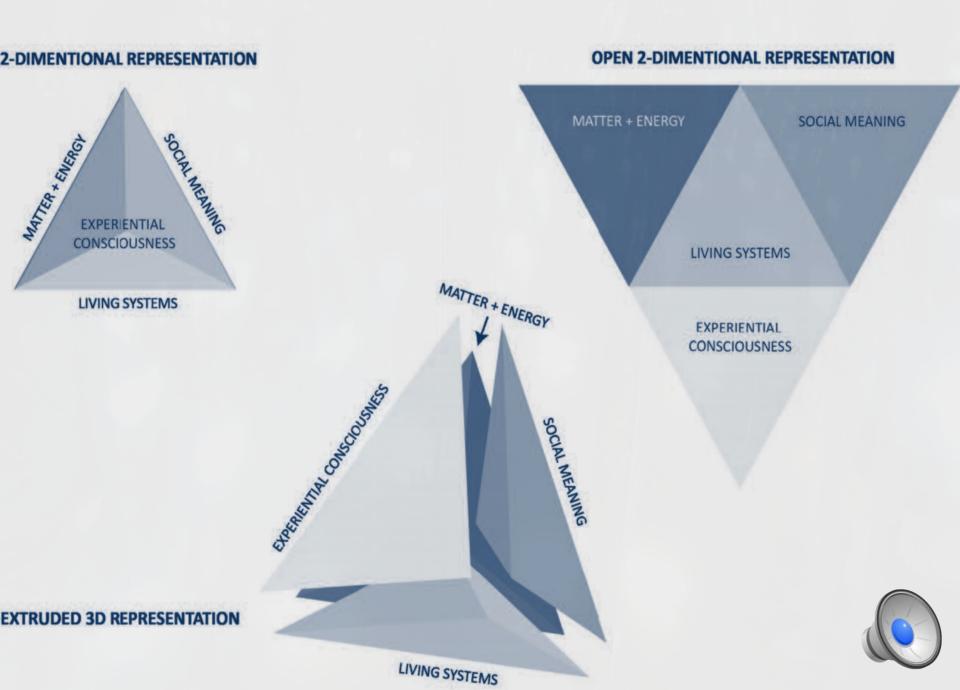
Cyber ame Norm Cyber ame Norm Generative Dynamic Complex Adaptive System

The Cybersemio Experience

# THE CYBERSEMIOTIC STAR

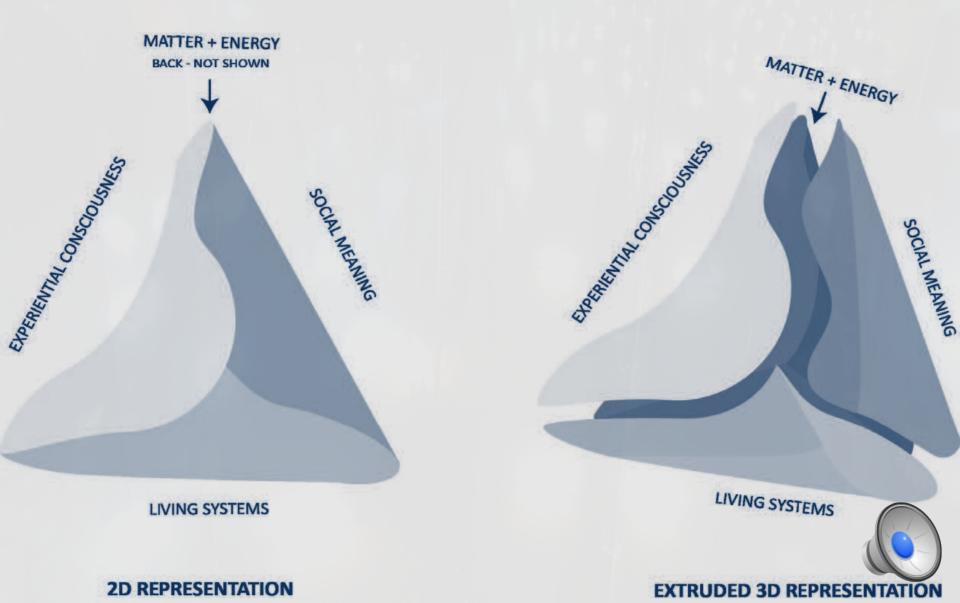


#### THE CYBERSEMIOTIC EXPERIENCE

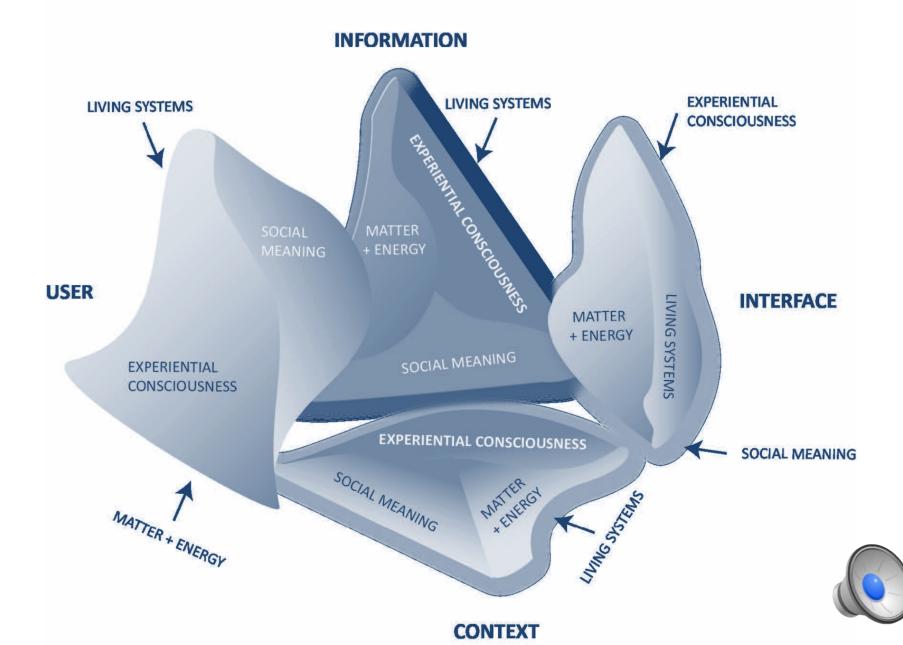


#### THE CYBERSEMIOTIC EXPERIENCE

#### **REPRESENTATION OF THE ADAPTIVE FACETS OF THE CYBERSEMIOTIC STAR**



## THE CYBERSEMIOTIC EXPERIENCE IN THE META-ENVIRONMENT





Integration: Polyhedron Generative Dynamic Complex Adaptive System

Visualization Models



# Thank you!

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