#### Collaborative Dialogue in Cross-Disciplinary Sound and Design

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#### Contents

Nascent Interdisciplinary Practice

- Practices
  - Music and Design
- Practitioners
  - Academic, Artistic, Commerical
- Philosophical Underpinnings
  - Axiological, Ontological, Metaphysical, Phenomenological

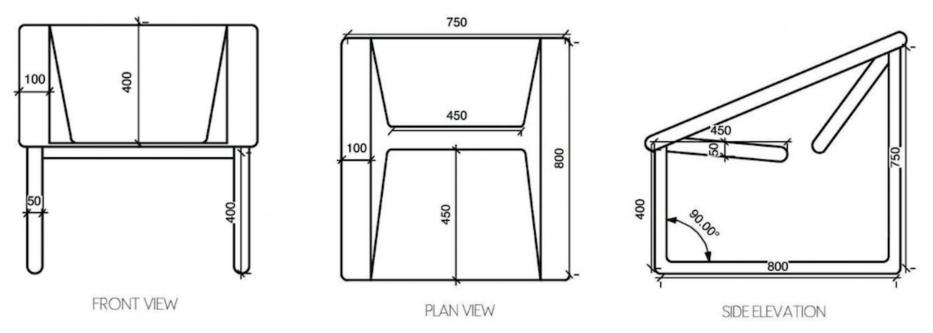
#### Contents

- Sonification
  - Mathematic practice
  - (sans aesthetic control)
- Sculpture, Structure, Music, and Sound

   Structural Integrity between disciplines
   Presence, absence, transparency, and silence



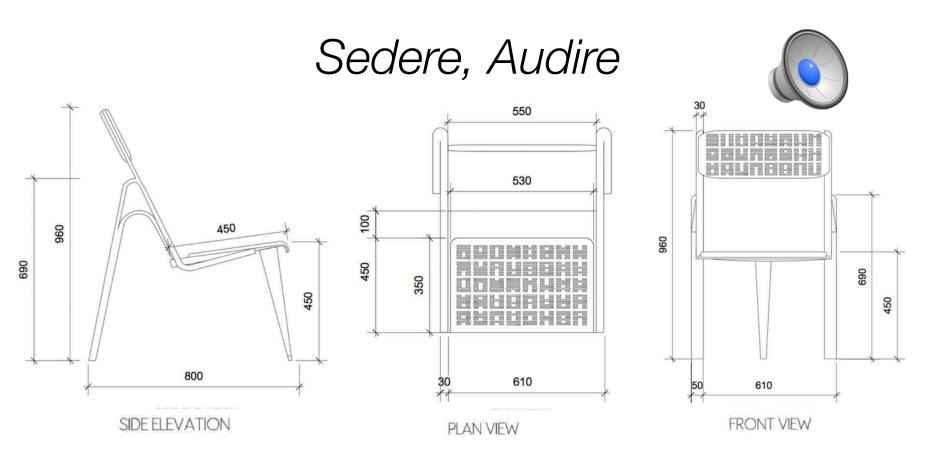




Schematic as Notation read as Absolute

x-axis = Pitch/ Frequency y-axis = Time

Sequential, Dualistic Process



## Schematic and Notation as Singular of Two Equal Components

#### Heterarchical Dialogue

# Audio Realisation of non-audio contextual Object

1. Sonification

the quantitative audio realisation of quantitative analysis of nonaudio data.

- Data-based Composition/ Structural Composition (in this case)
   the qualitative audio realisation of quantitative analysis of non-audio data.
- 3. Context Reflective Composition

the qualitative audio realisation of qualitative analysis of nonaudio data.

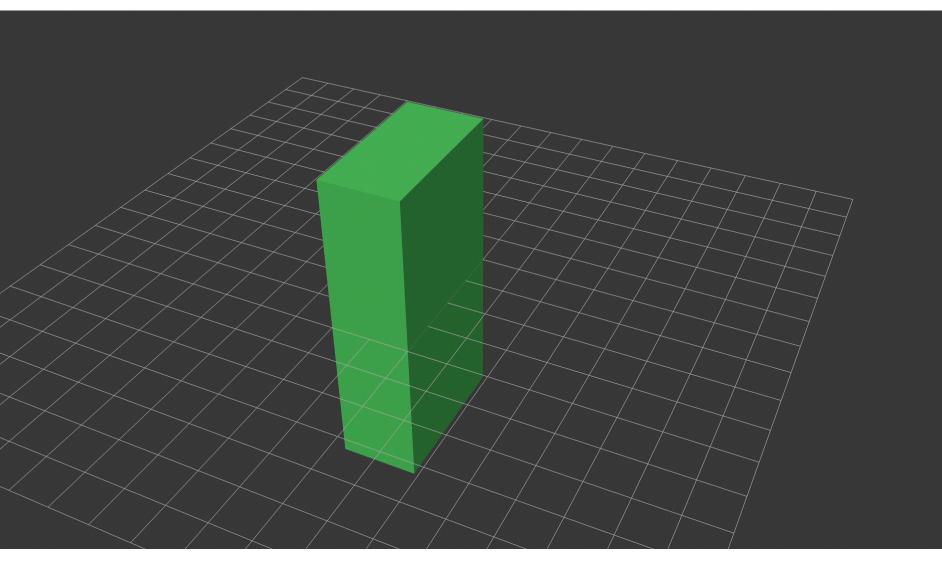
#### Sonification

'A Technique that uses data as input, and generates sound signals [...] may be called **sonification**, if and only if  $(C_1)$  The sound reflects objective properties or relations in the input data'

(Hermann, 2008)

Rigorous with Aesthetics Subsumed

#### Sonification



### Structural Composition

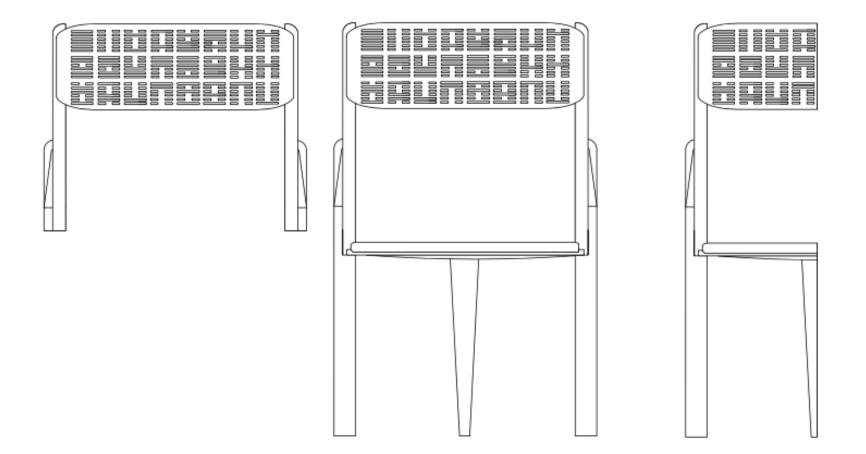
Schematic: Objective representation with Objective interpretation (lacking nuance in relation to instruction)

**Notation**: Objective representation with Subjective interpretation (nuanced in relation to instruction)

#### Structure & Sculpture



#### Structural Integrity



#### Structural Integrity



#### Sound and Music

# Silence [tacet]

#### Sound and Music

#### Occupancy:

*typically* with music there is an aural presence;

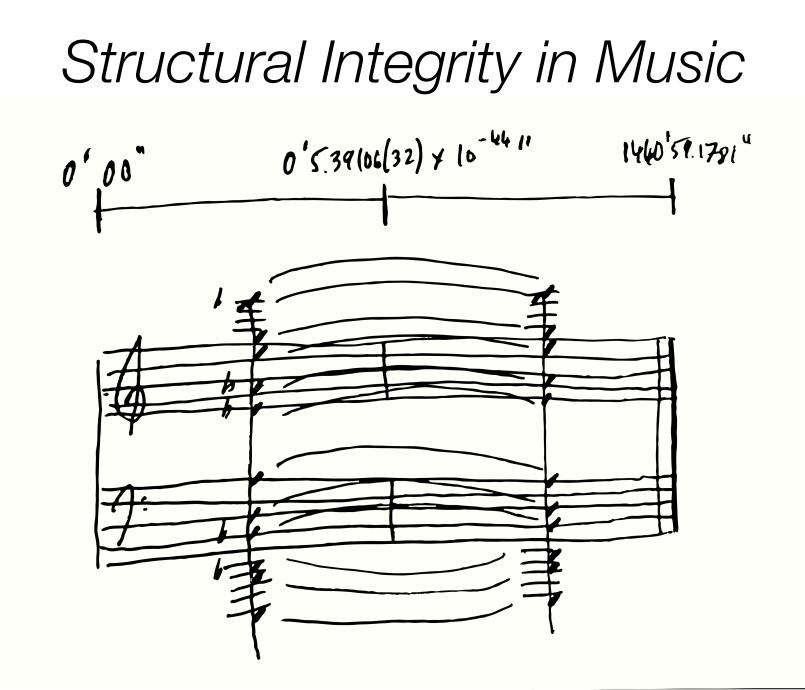
there is aural presence with sound.

Music's existence is not dependent upon constant aural presence. Sound is at mercy of aural presence, absence of which is absence of sound.

### Sound and Music

- 1. Sound has absence and non-suspension of perception,
- 2. Sculpture has presence and suspension of perception,
- 3. Music is presence and non-suspension of perception.

Illusion of absence is something; absence is nothing





#### Practice -> Praxis