Collaborative Dialogue in Cross-Disciplinary Sound and Design

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Contents

Nascent Interdisciplinary Practice

• Practices
  – Music and Design

• Practitioners
  – Academic, Artistic, Commercial

• 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
Sedemus

Schematic as Notation read as Absolute

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

Sequential, Dualistic Process
Sedere, Audire

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 non-audio data.

2. 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 non-audio data.
Sonification

‘A Technique that uses data as input, and generates sound signals [...] may be called sonification, if and only if (C₁) 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
Structural Integrity in Music

0.00
0.5390632 \times 10^{-44} \text{ m
Conclusion

Practice -> Praxis