Phenomenology and Performance: Technology | Architecture + Design Through Music

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Abstract

“Phenomenology” is a design philosophy that was first used to criticize the modern movement and as an urge to return to “place-based” architecture. Juhani Pallasmaa further expanded the ideas by introducing the phenomenological aspects of kinesthetic and multisensory perception of the human body into this architecture theory.

“Performance Based” design, with the help of computational tools, is a design paradigm within architecture that has emerged in the 21st Century by using building performance as a guiding design principle for the design of cities and buildings. Current interest in building performance as a design paradigm is largely due to the emergence of sustainability as a defining socio-economic issue and the recent developments in technology and cultural theory. “Phenomenology” and “Performance Based Design, students were asked to develop an interpretive building component (structure, skin, space) inspired by the relationships found between music and architecture. Music has distinct phenomenological qualities that can be thought of in conjunction with the spatial experiences of architecture. Music also has distinct computational or technical qualities that can be thought of in conjunction with building performance and the tectonics of architecture.

Music and architecture have many things in common and have many divergent means for creation. Rhythm is the underlying pattern and found in the beats / repetition of music as well as the structural elements of architecture. Texture is heard in layering different instrument voices and seen in the composition of building materials. Harmony is achieved through note combinations within a musical work or in architecture through the successful relationship of individual spaces becoming one cohesive space. Dynamics in music and architecture deal with quality and emphasis both needing hierarchy and identity as well as feeling. Musicians experience music in very deep ways, e.g. subtle moments in songs / tunes that some people might not notice. Architects similarly feel and experience space in deeper ways than most non-architects. When architects move through space, it becomes a phenomenological journey of tectonic discovery.

The ideas and artifacts were presented in conjunction with the playing of the music initially chosen. As with many art forms, their subjective appreciation and evaluation was quite varied depending on the listener and observer and their personal sensitivities and biases. As a design critic and musician who plays Celtic music, final evaluation was prefaced by the design conversation that led up to the final submission as well as my own phenomenological and performative understanding of the music. Because of these mutual behaviors, music and architecture share a relationship generated by subtle experiences (phenomenology) and underlying computational codes (performance). In that shared relationship lie the creative potential for mutual understanding and discovery.

Keywords: structures, energy + systems, computational design + analysis, pedagogy, open
PHENOMENOLOGY AND PERFORMANCE

Phenomenology and Performance
Technology | Architecture + Design Through Music

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"Phenomenology" is the study of underlying ideas and principles that are the foundation of our understanding of the world. It is a philosophical approach that examines the way we perceive and construct our reality. In architecture, this can be seen in the way we design and build spaces that are not just functional but also expressive of our cultural and personal values.

The term "Performance" refers to the act of giving a public display of skill, art, or athletic ability. In this context, it is used to describe the way architecture can function as a performance space, where the design itself becomes a part of the experience.

The analytics of performance are explored through the lens of architecture. This involves understanding how the built environment interacts with human behavior and how it can be designed to enhance the quality of life.

In contrast to traditional design approaches, "Performance-based" design emphasizes the development of computational tools and digital techniques to create more responsive and adaptable architecture.

Music, art, and performance are also considered as integral parts of this process. The idea is to create spaces that are not just static but dynamic, where the architecture itself becomes a part of the performance.

The concept of "Permeability" is also explored, which refers to the way spaces can be designed to allow for a seamless flow of people and activities, creating a more connected and engaging environment.

In conclusion, the integration of phenomenology and performance in architecture is about creating spaces that are not just functional but also expressive of our cultural and personal values. It is about designing architecture as a form of performance, where the design itself becomes a part of the experience.