



ORIGINAL RESEARCH PAPER

Arts

THE INSIGHT OF MUSIC FOR ARCHITECTURE

KEY WORDS: Harmony, Proportion, Dynamics, Rhythm, Concept, Digital Expression, Design, Visual Translation

Ms Deepti Pandey Rana*

Associate Professor, AMITY School Of Architecture & Planning, AMITY University, Lucknow Campus * Corresponding Author

ABSTRACT

Musical terms such as rhythm, texture, harmony, proportion and articulation refer both to architecture and to music. Rhythm in music is patterns of sounds in relation to a beat; repetition of elements - openings, shapes, structural bays- establish regular or irregular rhythm in architecture. Musical texture refers to layers of sounds and rhythms produced by different instruments. Architectural texture appears in different materials. Harmony is balance of sound or composition and balance of parts together. Proportion is relationship between parts; in music it is distance between notes or intervals. Dynamics is the quality of action in music or in a building's facade or mass. The comparison between architecture & music will reveal that, the architectural design process has the same components & elements, which are consisting Designer, User, and Architectural work. If we recognize the literal meaning of architecture, we will find that, the same emotion case as in music- affect a person who uses his talents to translate this emotion producing sketches or creating 3D models.

INTRODUCTION

The branches of Arts are unified in one connected chain. Each branch is affected by others, thus the branches of Music and Architecture. The characteristics that please the eye also please the ear. Musical terms like- Rhythm, texture, harmony, proportion, dynamics and articulation refer both Music and Architecture. The art of music shows an interaction between the taste and sensitive affections of both the composer and the listener. Therefore, music can be defined as: an emotion case affecting one person who uses his talent to translate it to a musical art. . The objective of this research is to develop sensitivity among the architecture family towards music through and its application in Basic design. This shall allow architects to get creative and apply their architectural skills with greater sensitivity, and also to discuss in relationship between physical space and musical space.

MUSIC AS INSPIRATION FOR FUTURISTIC ARCHITECTURE-

The painters, sculptors, and poets produced artistic works that captured the motion, dynamism, and simultaneity central Futurist project.



The work Sant'Elia is best known for—Citta' Nuova or "New City" in Italian—came with machine-like superstructures, stepped skyscrapers interlaced with suspended walkways and highway overpasses. Designed between 1912 and 1914, it was intended to be the architectural remedy to Modernism's perceived disconnect from lived experience.

MUSIC AND ARCHITECTURE

Rhythm and architecture are similar in many ways. Rhythm has much to do with pattern. Patterns can be found in both music, through beat and repetition, but can also be found in shapes or structural elements in architecture.

Texture is also a key concept of architecture and music. Texture in music has to do with the layering of different sounds and rhythms by different instruments. Materials in architecture can also display texture. The combination of different materials can show a wide variety of different textures and how they can interact with each other.

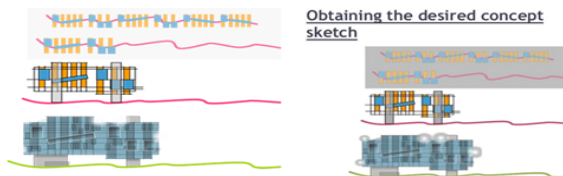
Architecture and music also have harmony in common. Harmony can be from balance in a musical work or it can also be through a balance of a part to a whole. Architecture can show harmony through the successful use of different materials or designs in a space together to become one unified space.

Proportion relates to harmony in many ways. The right proportions in music in intervals and notes can help create a harmony throughout the work. Proportions with materials in architecture also create a balance. The correct balance can harmonize an architectural setting.

Architecture and music also share dynamics. Dynamics deals with quality. Music and architecture need certain qualities and standards to make the works worthwhile and meaningful. Music and architecture can be paralleled in many more ways than one. Rhythm, texture, harmony, proportion, and dynamics all are tied into the arts in some way; whether it is through buildings, or songs. Either way, the overall qualities shared between music and architecture can help inspire each other. The more qualities in common, the more influence music and architecture can have on each other through emotions and the overall meanings of works.

**INNOVATION OF ARCHITECTURE THROUGH MUSIC
Make architecture dance-**

Music used Diagrammatically to evolve architectural creation -the music using the three steps of dynamics, rhythm and texture. Combine the three diagrams into one diagram. Recalling of stanzas of a musical score. The diagram turns into a façade or front face (elevation) of a building

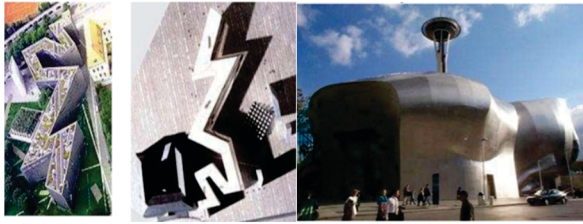


Obtaining Ideas From Music Is Done While The Composition Of A Certain Music Is Played .

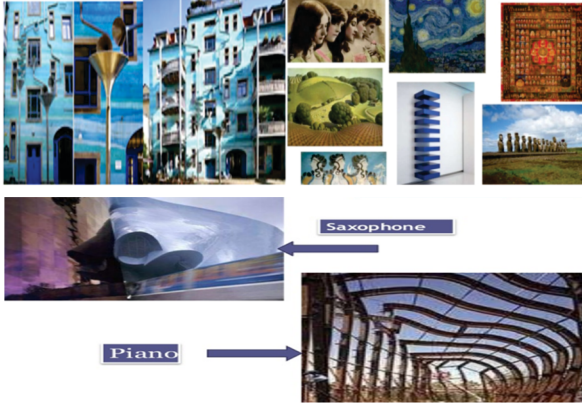
As the composition plays, the artist lets his hand loose and makes random prints on the musical sheet. Each piece or lets say stanza contains different expression from Dynamics to Rhythm and Texture. The Final result is produced when combining all THREE diagrams into ONE diagram by recalling the stanzas of musical scores. The obtained product can be used as the concept for Elevations, Sections and Plans. This is how Music involves the concept of any preconceived project in the mind of an architect.

EXAMPLES OF SUCH CONCEPTS –

Extension of Berlin Museum, with Department of Jewish , Berlin, Germany – Architect : Daniel Libeskind(1989-2002),Thought of Daniel Libeskind on Berlin Museum.



ARTWORKS INSPIRED BY MUSIC (RHYTHM)



various permutation and options depending on the attitude and disposition of the architect that is engaging in this process. Hence deeper interrogation into the spirit of the musical , including any underlying attitudes and philosophies, is essential. Creation of symbolic architecture requires a deep understanding of the key values, metaphors ad memories to be expressed, as well as understanding of how these are communicated visually. Finally to understand, if music is taken out of context it losses it's coherency and meaning. This leads to the conclusion that the clear understanding of the music one wishes to abstract from its compositional devices is necessary in attemptinf to translate concept of music in visual form and further to architecture.

REFERENCES

1. <https://www.next.cc/journey/discovery/architecture-and-music>
2. <https://www.architectural-review.com/essays/viewpoints/architecture>
3. https://www.vice.com/en_us/article/mg9na3/translating-music-into-architecture
4. <https://inhabitat.com/6-examples-of-innovative-architecture-inspired-by-music/>
5. <https://architizer.com/projects/music-in-architecture-architecture-in-music/>
6. <https://www.architectural-review.com/essays/viewpoints/architecture-becomes-music>
7. https://www.vice.com/en_us/article/mg9na3/translating-music-into-architecture
8. <https://www.slideshare.net/mariopathaw/rhythm-in-architecture>

DRUMS

Coca-Cola's Beatbox Pavilion –

Olympic Sounds Remixed By You!Designed by up-and-coming London-based architect duo Asif Khan and Pernilla Ohrstedt, Coca-Cola's Beatbox combines music, architecture, technology and sports into one amazing interactive structure.



COURT OF WATERWALL – RAINWATER MUSIC FOR THE MASSES

Who knew rain could sound so lovely? This funky blue wall doesn't just look cool, it plays music when it rains! Designed by Annette Paul, Christopher Rossner, and Andre Temple, the Court of Water wall funnels rainwater through downspouts to create a unique musical sound that can be heard throughout Kunsthof Passage Dresden, a small recreational and shopping area in Germany.

CONCLUSION

From various historical and contemporary digitized designed compositions in the field of Architecture we may conclude the realtionshionsip of Music and Architecture is real although indirect.The realtionship is hinged on certain compositional principles and is in contant flux at various points in history certain aspects of relationships have been more important than others.However principles shared all remain relevant and have potential for reinterpretation and new perspectives on their translation to their Architectural forms. The famous quote as Architecture as Frozen Music is becoming redundant gradually because various upcoming theories of digitization in Architecture and Music require translation in Visual form before becoming available into Architectural form.The understanding and subsequent application to music to architectural form is a subjective process and depends on designer of perceiver. There are