

EXPLORING GEOMETRY BASED VISUAL PERCEPTION IN DESIGN: ARCHITECTURE AND FASHION

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Abstract:

Design manifests through its elements and their properties. As a point travels from its position to a line, creates a shape and grows into a form, Geometric design unfolds itself from 2D to 3D. This specific mathematical sequence/ arrangement which helps in imbibing the balance in a design composition. The mathematical relationship between the elements forms the structure of all objects and space around us, whether natural or man-made. While natural forms have geometric attribute intrinsic to its growth, man-made forms are created based on understanding of geometry, which is inherent to the human mind by virtue of evolution and the structured space human beings live in. All visual compositions are perceived subject to acceptance and interpretation of the inherent mathematical relationships of the elements within the visual frame in the world around us. The act of seeing is a dynamic and creative process.

Geometry of Design is thus integral to its aesthetics. Architecture is the physical manifestation of the human space. Conceptualization of form remains purely geometric irrespective of whether organic or of man-made outlines. Architecture is perceived as complex geometric structure guided by experience and creativity pertaining to 3D space. Space is experiential within the structured environment, where human activities happen. Fashion is the physical expression of personal self. The human body is a geometric form with complex variations allowing explorations without limits. The body geometry controls the creative manifestation perceived through its geometric elements.

This thesis explored geometry based visual perception in design discourse through an interdisciplinary approach cross-pollinating the disciplines of architecture and fashion design-identifying the convergence and divergence of form ideation and perception. It aimed to establish the similarity and digression of creative process of ideation, as Geometry remained the guiding factor for ideation and perception within societal and visual aesthetics.

Keywords : Geometry, Visual Perception, Design Architecture, Fashion

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