

# Utilization of the Art of Optical Illusion in the Design of Egyptian Glass Architecture

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## Abstract:

In order to open new horizons for artistic creativity derived from the art of optical illusion and utilization of its techniques in the design of architectural facades, the research is conducting a study to clarify the most important criteria that should be taken into consideration when resorting to the use of optical illusion art and the criteria for its application in design by studying the art of optical illusion in terms of its origin, foundations and laws Which is based on it and how to employ this art in the development of the design thought of the designer, and to benefit from the theories of this art in the design of architectural glass facades.

The modern technological revolution and the many achievements it offered to humanity as a result of the rapid change of the data of science and the human mind have opened new horizons to bring about tangible modern progress in architecture and glass. There is an important fact that cannot be ignored: no matter how advanced technology is, it always needs the intervention of a creative designer who adapts his potential of thought, rationality and control in order to achieve the supreme goal of creativity. Therefore, the artists' perception and visual vision changed according to the change of thought and culture. They were interested in kinetics and optics, and they achieved this through color contrast, spacing of distances, organizing lines, reducing, and enlargement so that the general shape suggests movement, although in fact it is static. In this behalf, we try to take advantage of the elements of creativity available in optical illusion systems to innovate and develop the design of architectural glass mural facades based on this artistic trend to achieve deception with the element of movement, depth, and rhythm to achieve the phenomenon of anthropomorphism in the architectural facade.

**RESEARCH ISSUE:** The study issue is about how to reach creative design solutions by the utilization of the art of optical illusion and employing it in designing glass architecture.

**RESEARCH OBJECTIVE:** Studying the art of optical illusion and its standards, and to identify the role of the designer in taking advantage of it and how to employ it in designing glass architecture.

**RESEARCH IMPORTANCE:** The importance of the research lies in studying the art of optical illusion and taking advantage of it in the design of glass architecture.

## Keywords:

Art of Optical Illusion, Glass ,Architecture