

Workshop 1 training (1)

The Penrose Staircase depicts a staircase that appears to go up (counterclockwise) or down (clockwise) but forms a continuous loop.

As with other types of parallel projection, objects drawn with the axonometric projection do not appear larger or smaller the closer or further away they are from the viewer. Although advantageous for architectural drawings, where measurements must be taken directly from the image, the result is perceived distortion, as unlike perspective projection, this is not how human vision or photography operate normally. It can also easily lead to situations where depth and altitude are difficult to judge.

This visual ambiguity has been exploited in op art, as well as "impossible object" drawings.

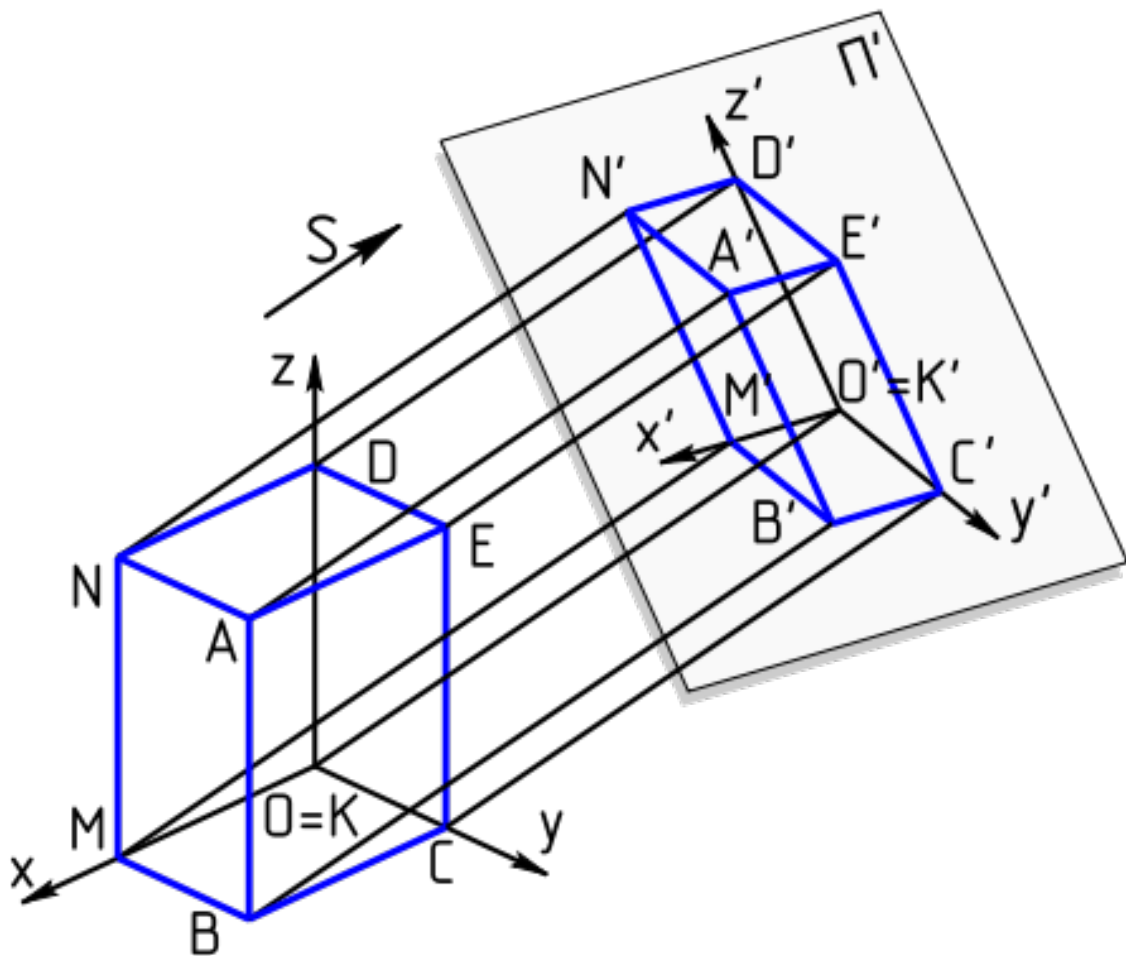
Though not strictly axonometric, M. C. Escher's Waterfall (1961) is a well-known image, in which a channel of water seems to travel unaided along a downward path, only to then paradoxically fall once again as it returns to its source. The water thus appears to disobey the law of conservation of energy.

- Metamorphosis of Axonometry, Daidalos, no. 1 (1981)

GRAPHIC PROJECTION REACTION.

(Parallel projection)

Scientific visualization.



As a subject in computer science, scientific visualization is the use of interactive, sensory representations, typically visual, of abstract data to reinforce cognition, hypothesis building, and reasoning.

- Scientific visualization is the transformation, selection, or representation of data from simulations or experiments, with an implicit or explicit geometric structure, to allow the exploration, analysis, and understanding of the data. Scientific visualization focuses and emphasizes the representation of higher order data using primarily graphics and animation techniques.

It is a very important part of visualization and maybe the first one, as the visualization of experiments and phenomena is as old as science itself. Traditional areas of scientific visualization are flow visualization, medical visualization, astrophysical visualization, and chemical visualization.

There are several different techniques to visualize scientific data, being the more common.

- Knowledge visualization.

The use of visual representations to transfer knowledge between at least two persons aims to improve the transfer of knowledge by using computer and non-computer-based visualization methods complementarily.

Thus properly designed visualization is an important part of not only data analysis but knowledge transfer process, too.

Knowledge transfer may be significantly improved using hybrid designs as it enhances information density but may decrease clarity as well. For example, visualization of a 3D scalar field may be implemented using iso-surfaces for field distribution and textures for the gradient of the field.

Examples of such visual formats are sketches, diagrams, images, objects, interactive visualizations, information visualization applications, and imaginary visualizations as in stories

While information visualization concentrates on the use of computer-supported tools to derive new insights, knowledge visualization focuses on transferring insights and creating new knowledge in groups

Beyond transfer of facts, knowledge visualization aims to further transfer insights, experiences, attitudes, values, expectations, perspectives, and predictions by using various complementary visualizations.

- Artifact, artefacts

Phenomenon of human, artificial origin, intervening in the study of natural facts.

tinyurl.com/mr54kd4m

October 1 2022 Workshop season 1 : Impossible Object

(Observe the moon night @Nasa)

SPECIAL THANKS to NASA

And to INOMN www.lroc.asu.edu

For the right to private access and download a super large format image *M1415659703* and data in thanks for my participation.

M1415659703 is a pair of NAC images featuring the eastern wall of Riccioli H crater and area north of Riccioli crater which are located southwest of Oceanus Procellarum on the nearside of the Moon..

The update of the workshop allows (private) access to training based on my study path. hey hey ;)

[Ask me](#)

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