

Assignment-6

- What is a perspective grid? Explain in detail.

A perspective grid is a drawing framework that combines a horizon line ,orthogonal grid lines at least one vanishing point , and at least one corresponding plane. Illustrator allows the use of specially designed grids to act as a guide when drawing in perspective. To display the perspective grid with two vanishing points by default, choose in the menu View / Perspective grid / Show grid.

Horizon Line

At eye level, the horizon line represents your horizontal vision. The horizon line on the page reflects the fact that your eyes can see approximately 180 degrees across.

The presence of a horizon line in the centre of the canvas implies that you are looking straight across at the scenery. A lower horizon line indicates that you are gazing down at it, whereas a higher horizon line indicates that you are looking up. An angled horizon line indicates that you've tilted your head or viewpoint in an unexpected way, and it's a terrific method to give your illustrations new perspectives.

Orthogonal Lines

Orthogonal lines or perspective lines are the grid lines that disappear into the horizon, representing the 3-dimensional plane you follow forever into the distance. Each vanishing point (see below) has its own set of orthogonal lines.

Vanishing Point

All orthogonal lines travelling into the distance have a vanishing point as their focal point.

The number of aircraft you'll see on your grid is equal to the number of vanishing points on your horizon line. There is only one vanishing point in one point perspective, and as the viewer, you will only see the front surface or plane of your item. Two vanishing points in two-point perspective show two planes from your vantage point. Three vanishing points reveal three planes of your object in three point perspective.

Plane

A plane would be entirely flat if you visualised it. A single plane area would appear as frail as a sheet of paper.

Two planes may run parallel or intersect at a point. Because you are a single viewer with the ability to focus on two different spots on the horizon line, the two matching planes will connect with a vertical line where you stand. Consider two sheets of paper crisscrossing along their entire length or edge.

If you added a third dimension to the two previously discussed, it would be perpendicular to both planes (think X, Y and Z axis).