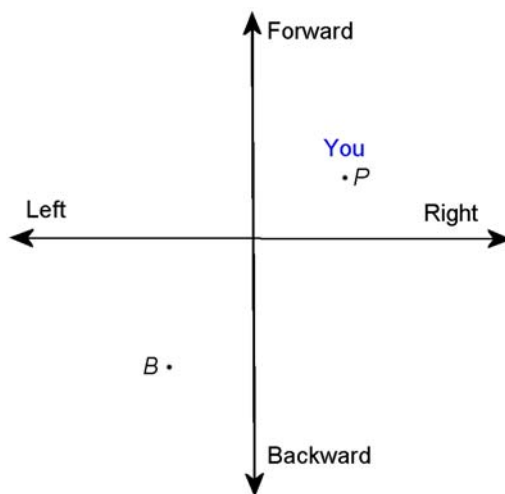
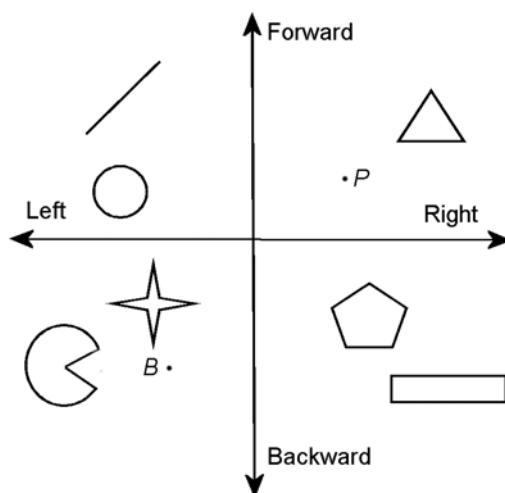


Limits of a Two-Dimensional World

Let's visit another world. Suppose you live in a two-dimensional world. You're still a point, but now you can move forward, backward, left and right. Your old neighbor point B is with you in your new world, and you both enjoy the freedom of an additional dimension.



What other shapes might you meet in your two-dimensional world? In a one-dimensional world, shapes could only be points or line segments. In a two-dimensional world, there is no limit to the number of different shapes that can exist. There can be points, line segments, circles, triangles, squares, parallelograms, trapezoids, pentagons, hexagons, octagons, lines, rays, stars, and so forth. You could even have a happy face, Pacman, and a chessboard. In fact, any shape you can draw or imagine that fits entirely on one plane can be in your world.



When you lived in a one-dimensional world, everything looked like a point. What do you see when you look at other objects in your two-dimensional world?