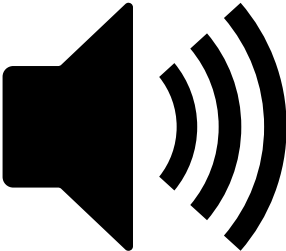




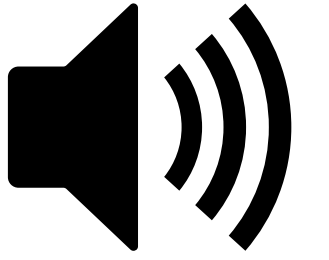
Basic Geometric Transformations





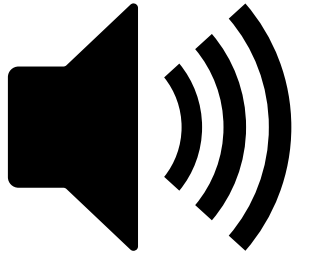






# Basic Geometric Transformations

# Translation



In translation, you move a point from original location, let's say  $(x, y)$  to a new location  $(x', y')$ . To do this, you can simply add the existing coordinates  $dx$  and  $dy$  respectively so that  $x+dx = x'$  and  $y+dy = y'$ .

Special forms of such transformation can include horizontal-only or vertical-only translation where the other delta becomes zero, which allow point to be moved only orthogonally.