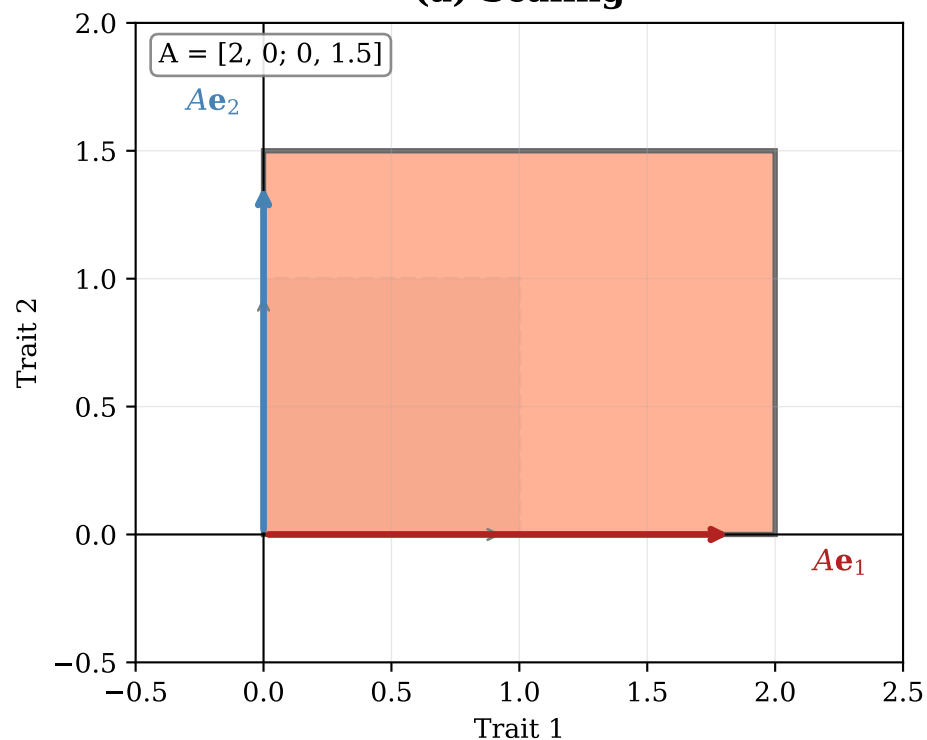


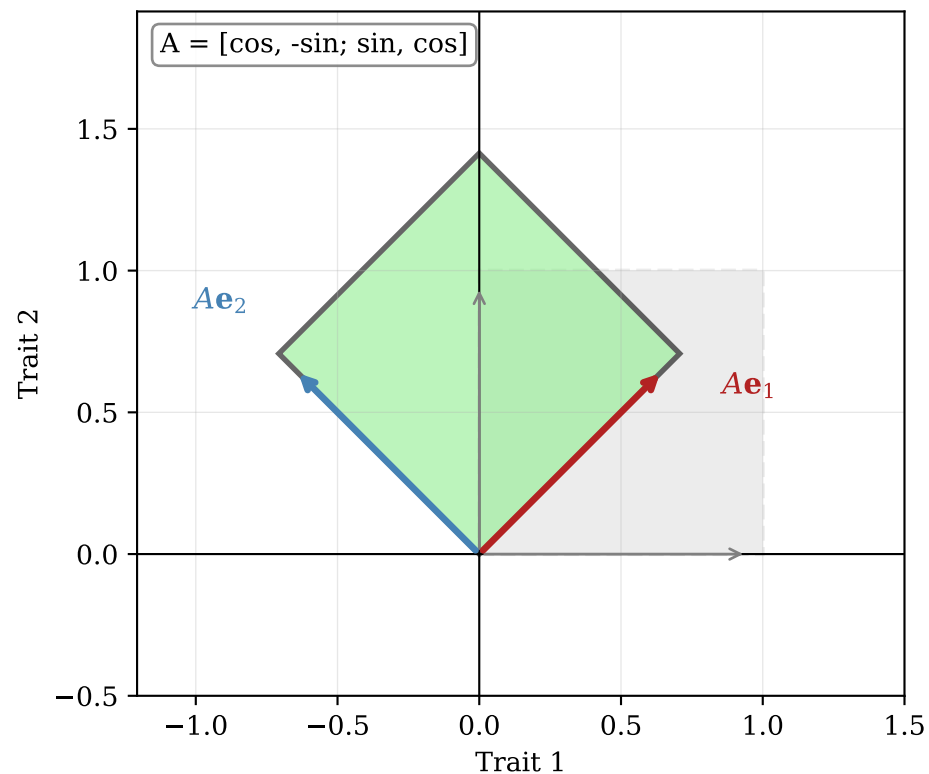
The Four Basic Linear Transformations

Unit square (dashed gray) → transformed shape (solid). Red/blue arrows show where e_1 and e_2 land.

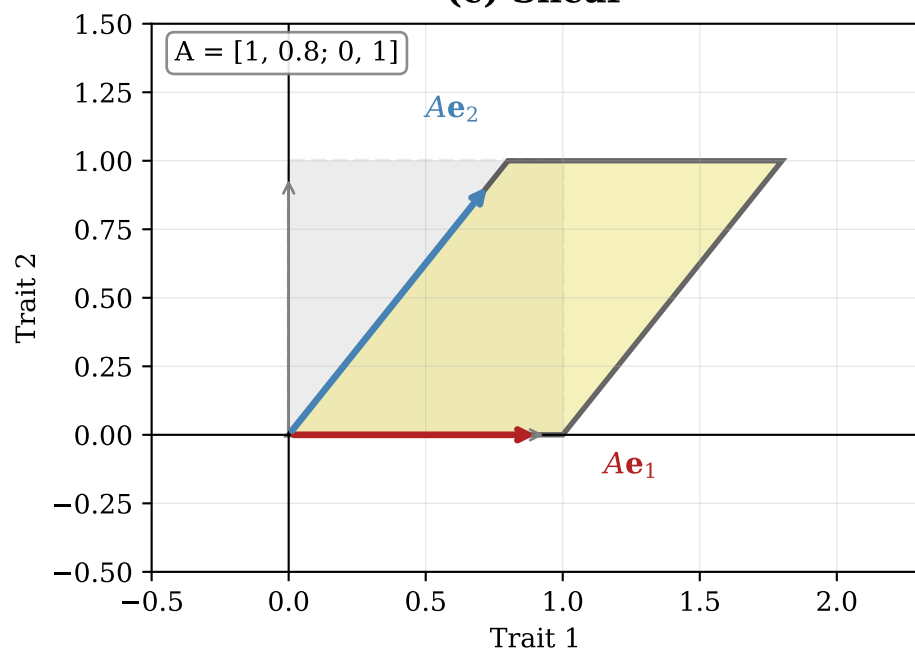
(a) Scaling



(b) Rotation (45°)



(c) Shear



(d) Reflection

