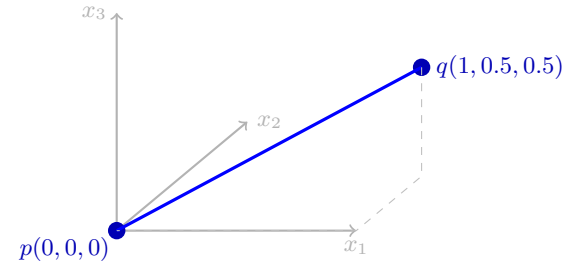
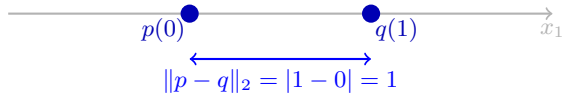


3D: Three Features (Blood Pressure, Heart Rate, Age)

$$\|p - q\|_2 = \sqrt{(1)^2 + (0.5)^2 + (0.5)^2} \approx 1.22$$



1D: One Feature (Blood Pressure)



Adding more dimensions increases distance: even small differences along each axis combine through the Euclidean formula. In higher dimensions, points are pushed away from each other, making all patients seem far apart.