Color gradient functionalisy Idea; Hove the birds change colors along a godient Uniformly and prevelorandomly. Implementation: Bird objects have a color-vector attribute, Which is a three dimensional arraylest of integers. These integers correspond to the RGB values for each bird. Color-vector= { R, G, B} Now, White corresponds to R=255, G=255, B=255Black corresponds to R=0, G=0, B=0Using this knowledge, we construct color-sum = R+G+B ax each time step. If color-sum = 760 (When birds are very close to white) Subtract I from P, 6, or B at rundom. If color-sum = 5 (When birds are very close to black) add 1 to P, G, or B at random either add or Subtract (at random) I from R, G, or B (Choran randomly The vosult is that the birds change colors pseudorendomly along a gradient between white and black. One of the careats to this method at controlling the colors, is that Birds can stay roughly the same color for arbitrary periods of time. Additionally, birds can change colons arbitrarily fast as well.