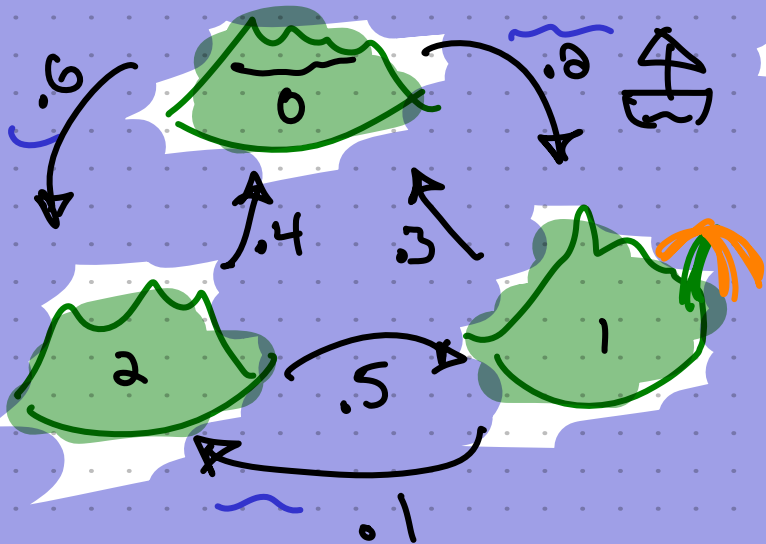


MATH "MAGIC" TRICK



PEOPLE ISLAND 0
AFTER 1 MOVE

$$X_0' = .2X_0 + .3X_1 + .4X_2$$

$$X_1' = .2X_0 + .6X_1 + .5X_2$$

$$X_2' = .6X_0 + .1X_1 + .1X_2$$

$$x_0' = .2x_0 + .3x_1 + .4x_2$$

$$x_1' = .2x_0 + .6x_1 + .5x_2$$

$$x_2' = .6x_0 + .1x_1 + .1x_2$$

x' POP
AFTER
MOVE

POPULATION
ON EACH
ISLAND
INIT x

$$\begin{bmatrix} x_0' \\ x_1' \\ x_2' \end{bmatrix} = \begin{bmatrix} .2 \\ .2 \\ .6 \end{bmatrix} x_0 + \begin{bmatrix} .3 \\ .6 \\ .1 \end{bmatrix} x_1 + \begin{bmatrix} .4 \\ .5 \\ .1 \end{bmatrix} x_2 = \begin{bmatrix} .2 & .3 & .4 \\ .2 & .6 & .5 \\ .6 & .1 & .1 \end{bmatrix} \begin{bmatrix} x_0 \\ x_1 \\ x_2 \end{bmatrix}$$

$$x' = Ax$$