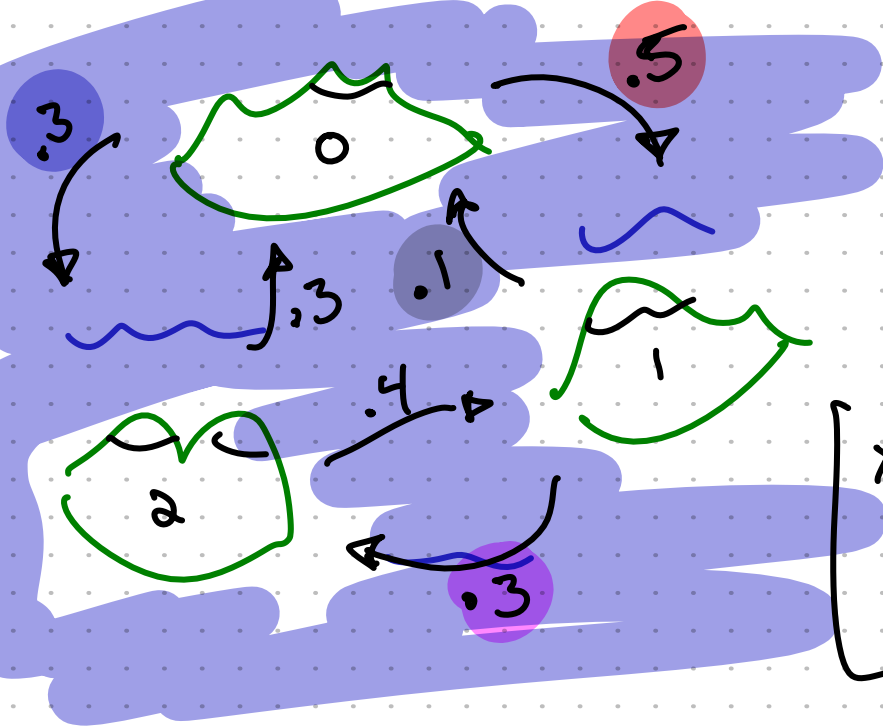


Island hopping "magic" trick



Pop on island 0 tomorrow

$$x_0' = .2x_0 + .1x_1 + .3x_2$$

$$x_1' = .5x_0 + .6x_1 + .4x_2$$

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

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

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

x_1
 POPULATION
 AFTER
 MOVE 1

A
 STATE TRANSITION
 MATRIX
 (MULT BY A
 MOVES PEOPLE)

x
 POPULATION
 BEFORE
 MOVE 1