

Fractal Fern

$$x \leftarrow Ax + b$$

85% of the time

$$A = \begin{pmatrix} .85 & .04 \\ -.04 & .85 \end{pmatrix}, \quad b = \begin{pmatrix} 0 \\ 1.6 \end{pmatrix}$$

7% of the time

$$A = \begin{pmatrix} .20 & -.26 \\ .23 & .22 \end{pmatrix}, \quad b = \begin{pmatrix} 0 \\ 1.6 \end{pmatrix}$$

7% of the time

$$A = \begin{pmatrix} -.15 & .28 \\ .26 & .24 \end{pmatrix}, \quad b = \begin{pmatrix} 0 \\ .44 \end{pmatrix}$$

1% of the time

$$A = \begin{pmatrix} 0 & 0 \\ 0 & .16 \end{pmatrix}, \quad b = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$