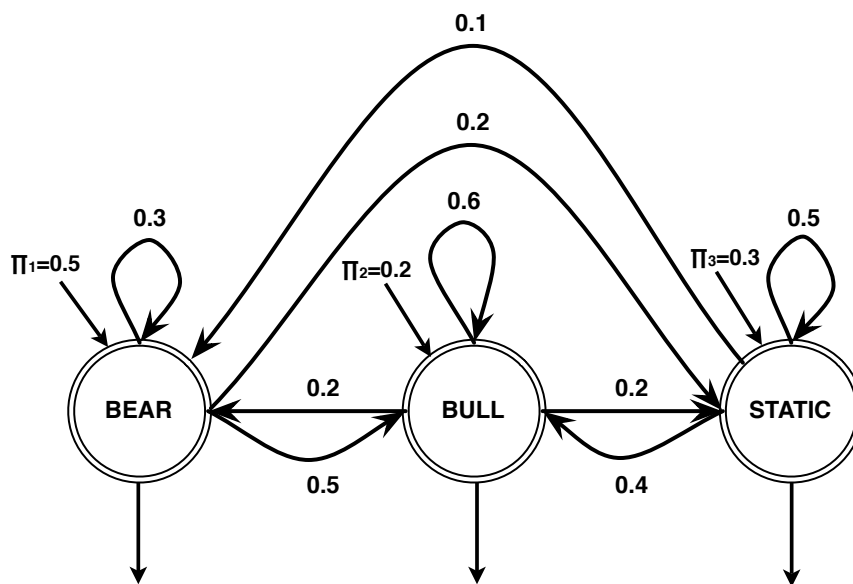


# Stock Market HMM



$$\begin{bmatrix} P(\uparrow | Bear) = 0.1 \\ P(\downarrow | Bear) = 0.6 \\ P(\leftrightarrow | Bear) = 0.3 \end{bmatrix}$$

$$\begin{bmatrix} P(\uparrow | Bull) = 0.7 \\ P(\downarrow | Bull) = 0.1 \\ P(\leftrightarrow | Bull) = 0.2 \end{bmatrix}$$

$$\begin{bmatrix} P(\uparrow | Static) = 0.3 \\ P(\downarrow | Static) = 0.3 \\ P(\leftrightarrow | Static) = 0.4 \end{bmatrix}$$

$$V = \{\uparrow, \downarrow, \leftrightarrow\}$$