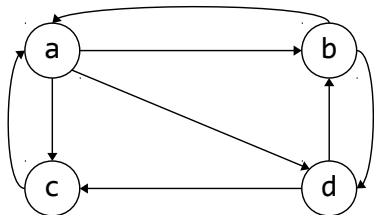# Example

Transition matrix:

$$\begin{bmatrix} 0 & 1/2 & 1 & 0 \\ 1/3 & 0 & 0 & 1/2 \\ 1/3 & 0 & 0 & 1/2 \\ 1/3 & 1/2 & 0 & 0 \end{bmatrix}$$

- **Initialization:** $\vec{v}_0 = [1/4,\ 1/4,\ 1/4,\ 1/4]$.

- **After one step:** $\vec{v}_1 = [9/24,\ 5/24,\ 5/24,\ 5/24]$.

- **After two steps:** $\vec{v}_2 = [15/48,\ 11/48,\ 11/48,\ 11/48]$.

  …

- **Converges to:** $\vec{v} = [1/3,\ 2/9,\ 2/9,\ 2/9]$.