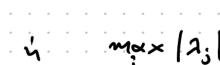
$$A = \begin{bmatrix} 0 & 1 & 0 \\ 0 & 1/2 \\ 0 & 1 & 0 \end{bmatrix}, \quad |A||_{\infty} = 1$$

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$$\forall A \in \mathbb{R}^{n \times n} \Rightarrow \rho(A) \leq |A||$$

$$\forall |A|| \cdot |\mathbb{R}^{n \times n} \rightarrow \mathbb{R}$$



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

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$$r_3 = \frac{r_2}{3}$$
 $r_4 = \frac{1}{2}r_1 + \frac{1}{3}r_2 + r_3$

$$\gamma^{(k)} = \frac{(A^{T})\gamma^{K}(0)}{\|A^{T})\gamma^{K}(0)\|_{2}}, \quad \gamma^{(k)} = \frac{(r^{(k)}, A^{T}r^{(k)})}{(r^{(k)}, r^{(k)})}$$

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$$F^{(k)} = \frac{(S^{-1})^{k} r^{(0)}}{||(S^{-1})^{k} r^{(0)}||_{2}} \xrightarrow{|k| \to \infty} r$$

$$\sum_{n=1}^{\infty} ||T_{n} r^{(n)}||_{2}$$