

$$L_{\infty} = \frac{\|x^{k+1} - x^k\|_{\infty}}{\|x^{k+1}\|_{\infty}} < 10^{-3}$$

$$\|x^{k+1}\|_{\infty}$$

largest value in column

→ largest value of difference.

$$\text{if } L_{\infty} < 10^{-3}$$

→ converging

otherwise diverging.

$$L_1 = \sum \|x^{k+1} - x^k\| < 10^{-3}$$

$$\sum \|x^{k+1}\|$$

Sum of all values
in column

Sum of difference
in column.

$$L_1 = \frac{\sqrt{\sum \|(x^{k+1} - x^k)^2\|}}{\sqrt{\sum (x^k)^2}} < 10^{-3}$$

1 square of all
difference values

Complex value

1) Sum of Step 1

2) Sqrt of Step 2
