## **Using Markov Chain**

- We want to sample from p(x)
- Build a Markov chain that converge to p(x)
- Start from any  $x^0$
- For k = 0, 1, ...

$$x^{k+1} \sim T(x^k \to x^{k+1})$$

• Eventually  $x^k$  will look like samples from p(x)