Google PageRank 
$$\exists A \text{ has citations } from \quad T_1, ..., T_n$$
 
$$d \approx 0.85 | d \in (0, 1)$$
 
$$PR(A) = (1 - d) + d \sum_{i=1}^n \frac{PR(T_i)}{C(T_i)}$$
 
$$R(u) = c \sum_{v \in B_u} \frac{R(v)}{N_v}$$
 
$$if |B_u| = 1, \exists v_\sigma \in B_u, \quad then \quad u \in F_{v_\sigma}, R_u = \frac{cR_{v_\sigma}}{|F_{v_\sigma}|}$$
 
$$A_{u,v} = \begin{cases} \frac{1}{|F_u|}, u \to v \\ 0, u \to v \end{cases}$$
 
$$R_i = cA_{u,v}R_{i-1}$$
 
$$R'(u) = c \sum_{v \in B_u} \frac{R'(v)}{N_v} + cE(u)$$
 
$$R'_i = c(A + E \times 1)R'_{i-1}$$

Markov Chains