

Remember rank of topic document.

$$\text{rank}_{jd} = (1-\alpha) V_{jd} + \alpha \cdot \sum_{u \in B_d} \frac{\text{rank}_{ju}}{N_u}$$

where d is a page B_d is set of pages linking to d , N_u is out-bound links from u .

$$\text{where } V_{ji} = \begin{cases} \frac{1}{|T_j|} & \text{if } i \in T_j \\ 0 & \text{otherwise} \end{cases}$$

V_i is topic i is specific page URL