INFORMATION RETRIEVAL

HOMEWORK EXERCISES L10. LINK ANALYSIS





- Anchor texts can also be misleading on purpose. Give an example of misleading anchor text, and describe why it is misleading
 - Examples of phishing: "visit here now to get your reward!" / "click here to reset your password"
 - Examples of click bait: "the reason why will shock you"



The Amazon Marketplace

------SHOPPER/MEMBER: 4726 ------DATE-OF-NOTICE: 12/22/2015

In order to use this-\$100 reward, simply go below to get your-coupon-card and then just use it during checkout on your next purchase. That's all there is to it!

Please visit-here now to get your reward

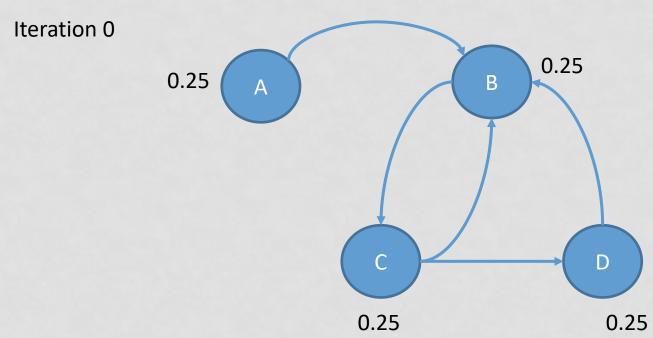


- (Exercise 21.3): Given the collection of anchor texts for a web page x, suggest a heuristic for choosing one anchor text from this collection that is most descriptive of x. If possible, give the equation.
 - 'anchor frequency inverse page frequency' (af-ipf)
 - af: the number of times this anchor text is used for page x
 - > ipf: the inverse of the number of pages the anchor text is used for
 - Same log-weighting as for tf-idf:

$$1 + \log(c_{a,x}) * \log\left(\frac{N}{n_a}\right)$$

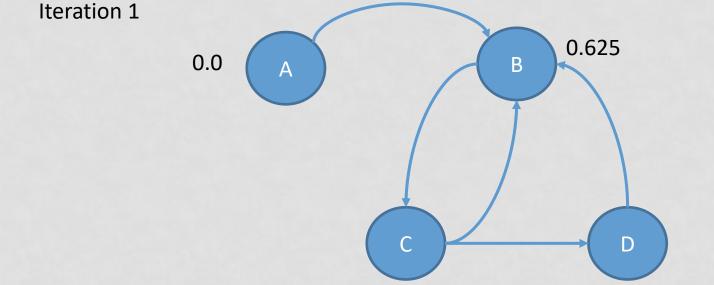
- $c_{a,x}$: count of a used as anchor text for x
- $\rightarrow n_a$: number of pages a refers to
- N: number of pages in the collection

Iteratively compute the PageRank score for nodes A, B, C, D with $\alpha=0$. Initialize with equal probabilities for all nodes in iteration 0. Stop after iteration 3.





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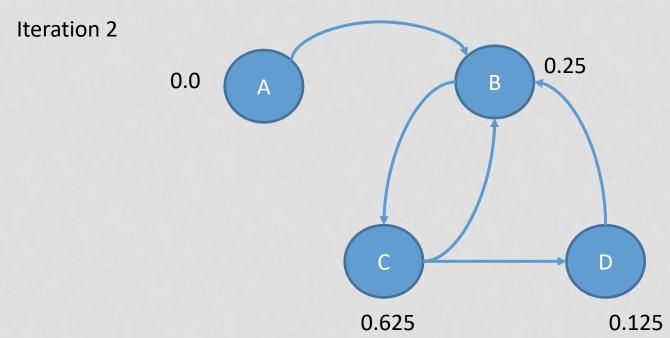




0.125

0.25

Iteratively compute the PageRank score for nodes A, B, C, D with $\alpha=0$. Initialize with equal probabilities for all nodes in iteration 0. Stop after iteration 3.





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