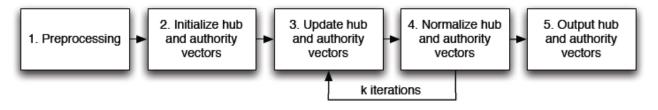
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1) What is the difference between Hits algorithm and PageRank algorithm?

	Hits algorithm	PageRank algorithm
Scoring Criteria	Good authorities are	A webpage is important
	pointed to by good hubs	if it is pointed to by
	and good hubs point to	other important pages.
	good authorities.	
Number of scores	a) one with the most	Page rank only presents
Dual Rankings	authoritative documents	one score.
	related to the query	
	b) other with the most	
	"hubby" documents.	
Query	HITS score is	PageRank score is
independence	calculated after getting	query independent
	the neighbourhood	
	graph according to the	
	query	

Where and how HITS is used? HITS is used to the web link-structures to discover and rank the webpages relevant for a particular search

How HITS used:



- 3) What are the two core concepts in the HITS algorithm? Authority value and hub value
- 4) What are HUBs in the HITS algorithm? What purpose do they serve? Hubs are pages which are not very relevant but point to a page in the Root. Hub purpose to estimate the value links to other pages.
- 5) What are Authorities in the HITS algorithm? What purpose do they serve?
 - Authority value is computed as the sum of the scaled hub values that point to that page.
 - Authority values will estimate the value of the content of the page.
- 6) A web-page containing links to Top 1000 Universities in the world is this a HUB or Authority in HITS?
 - Authority

7) Replicate the

source(https://www.youtube.com/watch?v=2rvN6tXdUkE&t=1520s&pbjreload=101) in to your own Jupyter Notebook. Run each link prediction algorithms that was shown in this source using the dataset(dolphin_edges.csv)

1. Load the network





2. Common Neighbors

3. Jaccard Coefficients

4. Resource Allocation

5. Adamic-Adar Index