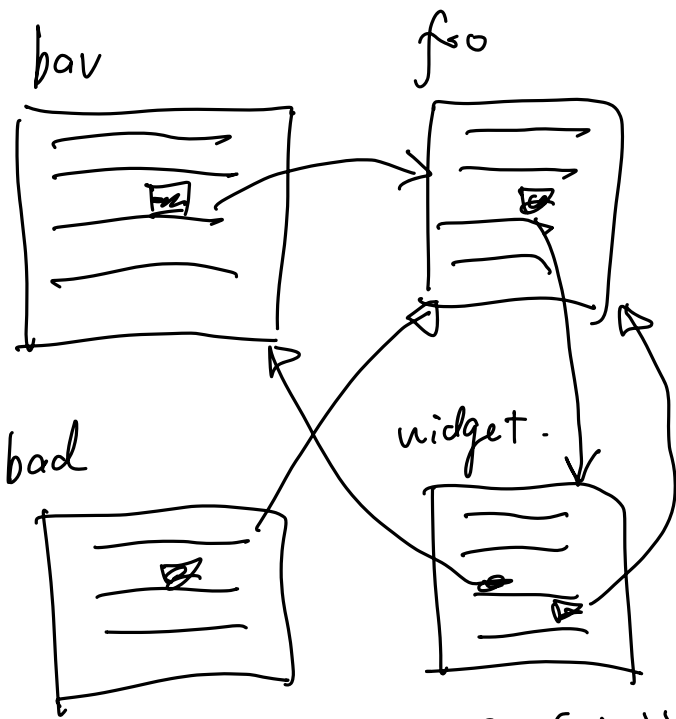


1. Start each page w/ a rank of 1.

2. On each iter, update each (dest.) page's rank to  $\sum_{i \in \text{neighbors}} \text{rank}_{\text{src}_i} / |\text{neighbors}_i|$ . (10)



links:  $\text{RDD}(\text{URL} : \text{Seq}(\text{URL}))$   
 src dest ranks:  $\text{RDD}(\text{URL} \rightarrow \text{RANK})$

src	dest
bar	foo
bar	widget
foo	widget
widget	bar, foo

join.

bar	5
bar	4
foo	3
widget	4

=

$\text{RDD}(\text{URL} \rightarrow (\text{Seq}(\text{URL}) : \text{RANK}))$

src dest rank

bar	foo	5
bar	foo	4
foo	widget	3
widget	bar, foo	4

rank<sub>src</sub>;  
|neighbors<sub>i</sub>|

flat Map.

dest      Updated Rank.

foo	5/1
foo	4/1
widget	3/1
bar	4/2
foo	4/2

reduceBykey

rank.

rank.

foo	$5 + 4 + \frac{4}{2} = 11$
widget	3/1
bar	4/2
bad.	0

co-partition.

partition By (-)

iter 5.



iter 6.



iter 10