

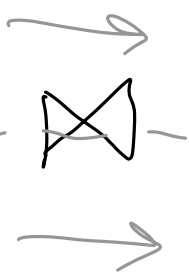
Links: $RDD[(URL, seq[URL])]$ ranks: $RDD[(URL, Rank)]$ $RDD[(URL, RDD[Seq(URL, Rank)])]$

S1

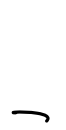
bar	foo
bad	foo
foo	widget
widget	bar, foo

S2

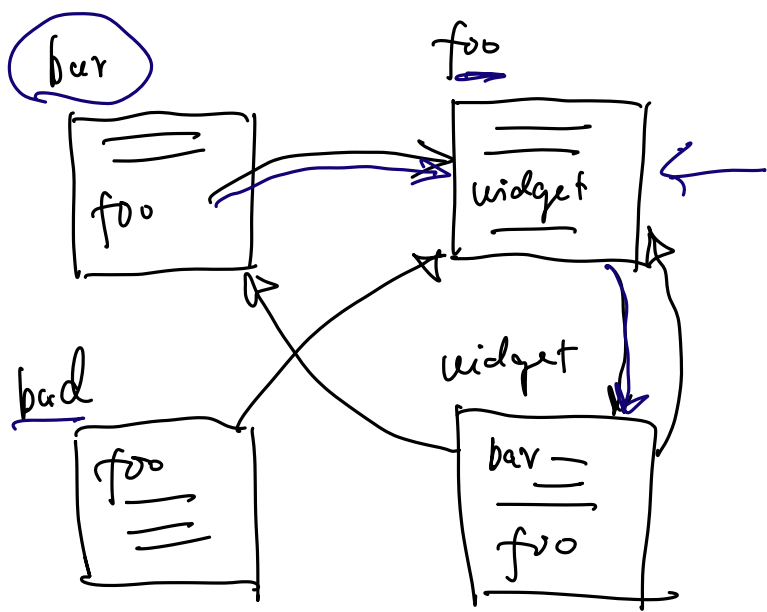
src. dest.



bar	5
bad	4
foo	3
widget	4



src	dest	rank
bar	foo	5
bad	foo	4
foo	w.	3
w.	bar, foo	4



flatMap. dest. contrib Rank

foo	5/1	
bad	foo	4/1
foo	widget	3/1
bar	foo	4/2=2
foo	bar, foo	4/2=2

input
Reduce By Key

$RDD[(URL, Rank)]$

foo	5 + 4 + 2 = 11
widget	3
bar	2
bad	0