

Query	best car insurance						
Document	car insurance auto insurance						
Query							
Term	tf-raw	tf-wt	df	N/df	idf=log(n/df)	tf-wt*idf	sqr(idf)
auto	0	0	5000	200	2.30	0	0
best	1	1	50000	20	1.30	1.30	1.69
car	1	1	10000	100	2	2	4
insurance	1	1	1000	1000	3	3	9
						sum(sqr(idf)=	14.69
						sqr(sum(sqr(idf)))	3.83

<b>Document</b>						
Term	tf-raw	tf-wt 1+log (tf-raw)	wt	wt^2	normalized	
auto	1	1	1	1	0.52	0.27
best	0	0	0	0.00	0.00	0.00
car	1	1	1	1	0.52	0.27
insurance	2	1.30	1.30	1.69	0.68	0.46
				3.69		1.00
				1.92		

normalized query vector	normalized doc vector	
0.00	0.52	0
0.34	0.00	0.00
0.52	0.52	0.27
0.78	0.68	0.53
cosine similarity	<b>0.80</b>	

normalized	
0	
0.34	0.12
0.52	0.27
0.78	0.61
	1.00