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K=0 Aphabets as [A-Z, a-Z]

Initial	Cospus	Vocab	ulary
2	B,a, K, C, 8, -	0 _	26
2	b,e,t,t,4,-	ala	6
2	L,0,4, -	b/B	15
2		d(D	1
2	b,0,0,9,h,t,- S,0,m,e,-	elE	20
2	b, i, t, t, e, 8, -	gla	2
2	b, u, t, t, e, 8, -	nlH	4
1	b, u,t-	112	3
1	i,t,_	K/K	3
1	made,-	21L	2
2	h,e, r-	m(M)	4
2	bat, t, ex,-	00	ġ,
1	5,9-	DIR	12
2	b, e, t, t, e, Y, -	315	3
1	t,0,-	+IT	25
1, ,	ma, k,e_	410	7

Iteration - 0

Initial values

Resation 1

B, a, K, e8, -2 2 b, e, t, t, y,-2 2101U1 b, 0,4,9, hit, -2 2 5101m1e1bil, t, t, et, -2 2 br4, tit, e8, b, u, t, i,t,miaidje 1h, et, b,a, t,t, er, -2 5,0,brestities, -2 t10, -m,a, xie, -

12

OCCUMENCOS (12

			en- >er-
	Heration -2	combine	
Count	Cospus	Vocab	ulary
2	5, a, k, et -	_	14
2	bre, +, +, 4, -	a	6
2	d, 0,410 -	b	15
2	5,0,u,g,h,t,-	6	l
2	3,0, Me, -	e	9 8
2	5,9,t,t,e8-	9	2
2	b, utities-	b	4
1		١	3
1	b,u,t,-	K	3
,	9,t,-	હ	2
1	m,ap,e,-	m	4
2	h,e8-	0	8
2	bait, t, es-		3
1	5,0,-	5	
2	b,e,t,t,e8-	-t	15 25
1	tp,-	u	7
1	markie,-	es_	. 12
•		1	

Actation - 3

count

Cospus

2	b, a, k, ex -
2	b, e, tt, y, -
2	1,0,4,-
2	b,0,419, h,t,-
2	3,0, mie, -
2	b, i, tt, er-
2	b, u, tt, er-
1	b, u, t, -
1	(, t, -
k	$m_1 a_1 d_1 e$
2	h,ex-
2	b, a, tt, et-
(3,0,-
2	b, e, tt, e6-
Å	4,0,-
(maixie

combine tit >tt vocabulary.

_	14	
a b	6	
5	15	
d	1	
e	8	
9	2	
h	4	
h	3	
Ł	3	
J	2	
m) -	4	
0	g	
5	3	
t u	5	
U	7	
C8_	12	_1
tt	10	

Iteration +

Count cospus.

ation + Combine tt, es-> ttes-

2	b,a, k, e8-	- 14
2	bie, tt, 14, -	a 6
2	4,0,0,-	b 15
2	b, au, g, h, t, -	d 1
2	3,0,m,e-	e 8
2	bii, tter-	9 2
2	b,u, ttex-	h 4
1	b, u, t, -	1 3
•	1,t,-	¥ 3
N		J 2
2	maldie,-	m 4
2	h128-	0 8
J	b, a, ttes -	20.00
	3,0,-	5 3 4 5
2	b,e, tter-	
1	£101-	<u> </u>
(markle, -	er_ 4
		\ tt 2
		tter_8

4

combine bie -> be Hesalion 5 vocabulorsy count COSPUS_ 14 biai kies-2 6 2 be, ttiy, -11 2 1,0,4,d 1 b, 0, u, g, h, t, -2 0 4 2 3,0, mie, -2 bii, tter-2 4 2 biu, ttex-3 b, u, t, -1 3 K 1, t, -J 2 m, a, d, e, = 1 m h,e8-2 8 0 b, a, ttex-2 5 ł 5,01 -5 2 be, they -7 U 410, -4 e8_ miaikie,-2 tt 8 ttes_

	Resation - 6	combine or u -> ou
Count	corpus.	vocabulovsy
2	b,a, K, ex_	_ 14
2	be, tt,y,-	a 6
2	J, ou, -	b 11
2	b, ou, g, h, t, -	d 1
2	310, mje, -	e 4
2	bili tter-	9 2
2	b,u,tter-	h 4
1	b, u, t, -	1 3
1	1,t,-	K 3
1	m,a,d,e,-	J 2
2	h, es-	m 4
2	b, a, ttes-	0 4
1	3p, -	P5 3
2	be, ttes-	t 5
(t10,-	$\begin{bmatrix} u & 3 \end{bmatrix}$
1	$m_1a_1x_1e_1$	er_ 4
	,	tt 2
		tter_8
		be 4
		04 7

	Resation - 7	Combine b,a → ba
Count	Corpus	vocabulary
2	ba, kies-	- 14 [a 2
2	be, tt, y,-	b 7
2	1,04,-	d 1
2	b, ou, g, h, t, -	e 4
2	5,0,m,e,-	9 2
2	b, i, ttex-	h 4
2	b, u, ttes-	1 3
1	b, u, t, -	K 3
1	1, t,	l 2
1	m, a, d, e, -	m 4
2	hier-	0 4
2	ba, tteb-	5 3
, ,	6 310, -	t 5
2	be, thes-	U 3
1	t,0,-	es-4
1	ma, kie, -	tt 2
		ttex_8
		be 4
		ou 4
		Tha 4

Considering ala > a ie, (A-Z, a-Z)

e alphabets

case insensitive.

Heration -0 All the Initial values that are present in the given text.

Iteration -1
In this iteration, combining ex > ex

count - 12 [(baker,2), (bitter,2) (butter,2) (better,2) (better,2) (her,2)]

Iteration-2 In this iteration combining. Cori- > er-Count-12

Iteration - 3

In the third iteration, we are combining tit -> tt

which uses 20 t's but the total

count is 10

betty-2

bitter-2

better-2

butter-2

batter-2

Actation 4
In this interaction, we are considering the vocabulary It, es -> theswhich how a total count of 8

Heration 5 Here un this combining bil count -4 (betty, 2) (better 12)

Iteration 6
For the 6th interation considery o, u vocabulary.

combine o, u -> ou

count -4 (lou,2) (bought,2)

Hexation 7

For the 7th ateration considering b, a vocabulary

for combining b, a → b a

count - 4

(baker -2

batter-4