

n-grams	
n1	angry
n2	happy
n3	good
n4	grr
n5	lol
n6	upset
n7	lol happy
n8	lol good
n9	grr angry
n10	grr upset

Tweets	
t1	lol happy
t2	lol good
t3	grr angry
t4	grr upset

Word-tweet sets	
W(angry)	{t3}
W(happy)	{t1}
W(good)	{t2}
W(grr)	{t3,t4}
W(lol)	{t1,t2}
W(upset)	{t4}

word clusters	
angry	c1
happy	c2
good	c2
grr	c1
lol	c2
upset	c2

Tweet vectors												
	n1	n2	n3	n4	n5	n6	n7	n8	n9	n10	c1	c2
t1	0	1	0	0	1	0	1	0	0	0	0	2
t2	0	0	1	0	1	0	0	1	0	0	0	2
t3	1	0	0	1	0	0	0	0	1	0	2	0
t4	0	0	0	1	0	1	0	0	0	1	2	0

NRC Lex	
angry	ang,fear
happy	joy,trust
good	joy,trust
upset	ang,sad

calculate centroids

$$w^{(j)} = \sum_{t \in \mathcal{T}(w)} \frac{t^{(j)}}{|\mathcal{T}(w)|}$$

words vectors												
	n1	n2	n3	n4	n5	n6	n7	n8	n9	n10	c1	c2
angry	1	0	0	1	0	0	0	0	1	0	2	0
happy	0	0	1	0	1	0	0	1	0	0	0	2
good	0	0	1	0	1	0	0	1	0	0	0	2
grr	0.5	0	0	1	0	0.5	0	0	0.5	0.5	2	0
lol	0	0.5	0.5	0	1	0	0.5	0.5	0	0	0	2
upset	1	0	0	1	0	0	0	0	1	0	2	0

