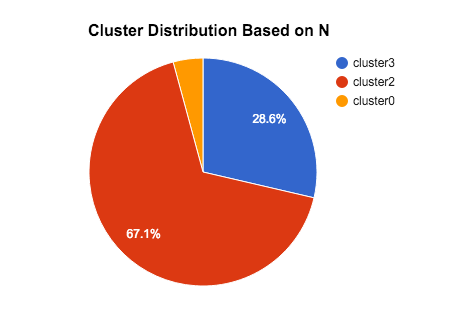
Figure 1Top 20 user with negative sentiment and their feature vector distribution

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**10 Topic resulted from running topic modelling algorithm**

[(0, u'0.016\*like + 0.016\*just + 0.011\*love + 0.009\*want + 0.009\*peopl + 0.008\*one + 0.008\*know + 0.008\*day + 0.007\*time + 0.007\*make'),

(1, u'0.011\*just + 0.009\*thank + 0.008\*game + 0.007\*will + 0.007\*one + 0.007\*day + 0.007\*now + 0.007\*good + 0.006\*time + 0.006\*win'),

(2, u'0.058\*photo + 0.030\*post + 0.017\*facebook + 0.013\*harri + 0.010\*video + 0.008\*love + 0.008\*loui + 0.008\*album + 0.007\*day + 0.006\*pour'),

(3, u'0.027\*follow + 0.019\*dan + 0.018\*stat + 0.016\*one + 0.015\*music + 0.014\*check + 0.011\*automat + 0.010\*peopl + 0.010\*download + 0.009\*play'),

(4, u'0.345\*updat + 0.052\*con + 0.032\*como + 0.027\*del + 0.014\*hay + 0.011\*son + 0.010\*sin + 0.009\*soy + 0.008\*tan + 0.008\*solo'),

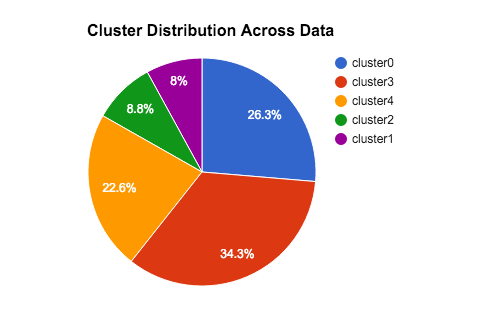
(5, u'0.084\*video + 0.077\*like + 0.023\*day + 0.017\*feel + 0.017\*rain + 0.016\*high + 0.016\*press + 0.016\*wind + 0.016\*low + 0.015\*temp'),

(6, u'0.006\*news + 0.004\*will + 0.004\*say + 0.004\*car + 0.003\*call + 0.003\*need + 0.003\*polic + 0.003\*time + 0.003\*year + 0.003\***kill'**),

(7, u'0.018\*like + 0.016\*fuck + 0.016\*shit + 0.011\*just + 0.009\*bitch + 0.009\*lmao + 0.008\*free + 0.008\*know + 0.008\*ass + 0.007\*girl'),

(8, u'0.006\*obama + 0.004\*use + 0.004\*read + 0.004\*great + 0.003\*food + 0.003\*chang + 0.003\*will + 0.003\*influenc + 0.003\*human + 0.003\*stori'),

(9, u'0.022\*love + 0.022\*tweet + 0.020\*vote + 0.012\*second + 0.012\*summer + 0.011\*collect + 0.011\*happi + 0.011\*thank + 0.010\*may + 0.010\*one')]



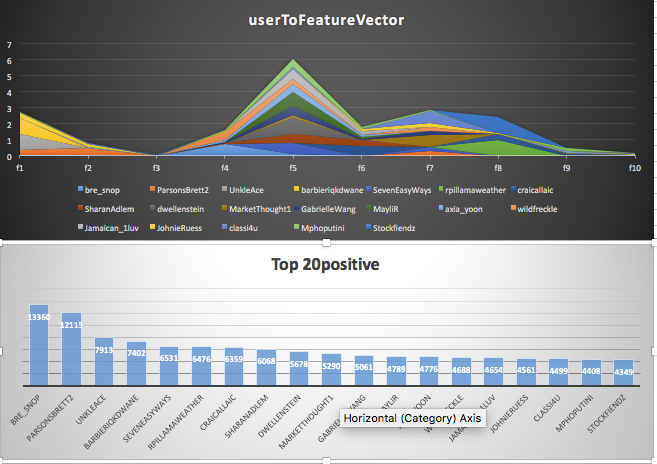


Figure 2Top 20 User with positive sentiment and their feature vector distribution

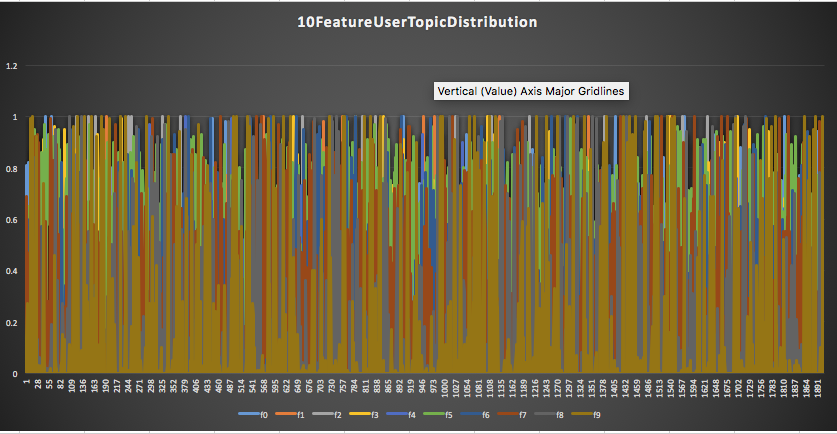
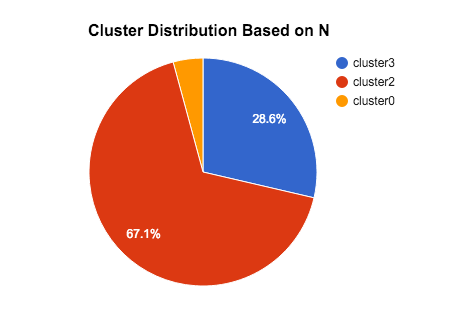
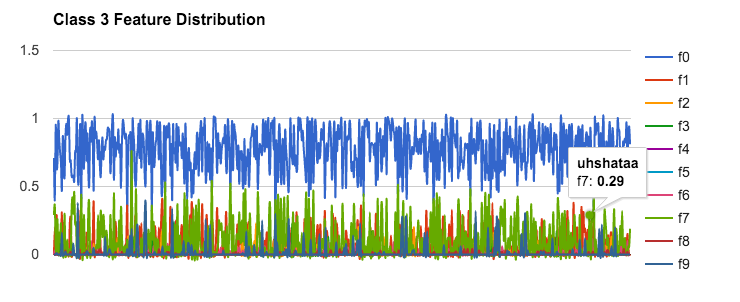
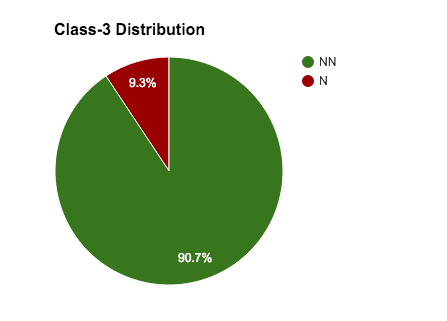
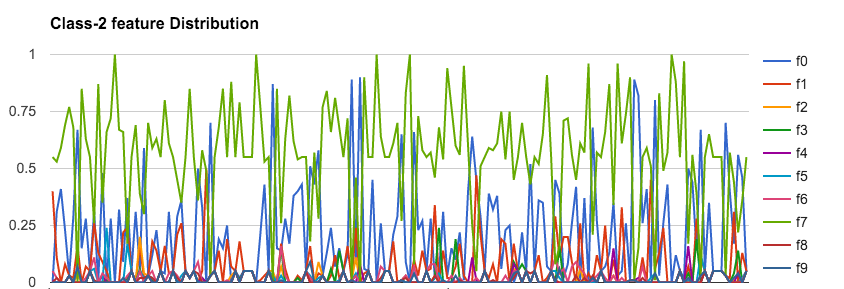


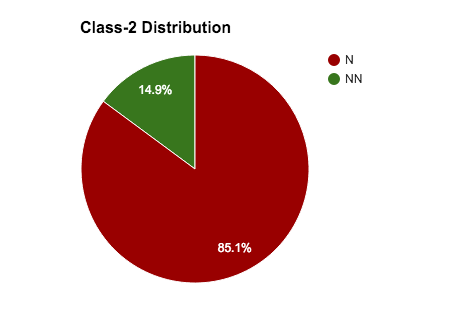
Figure 3OverAll distribution of 10 feature vector for 2000 users



Clustering: 







**Total N : For class 2 and 3 : 204**

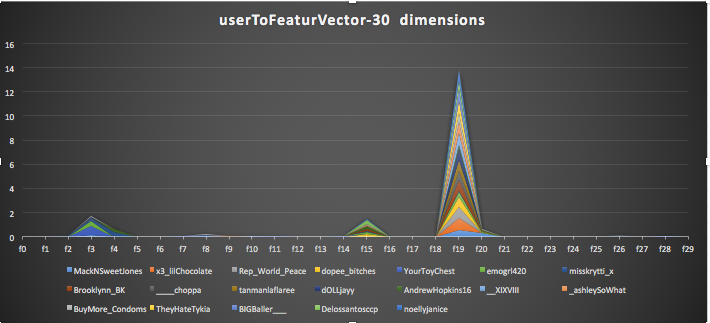
**Total N in entire data set: 213**

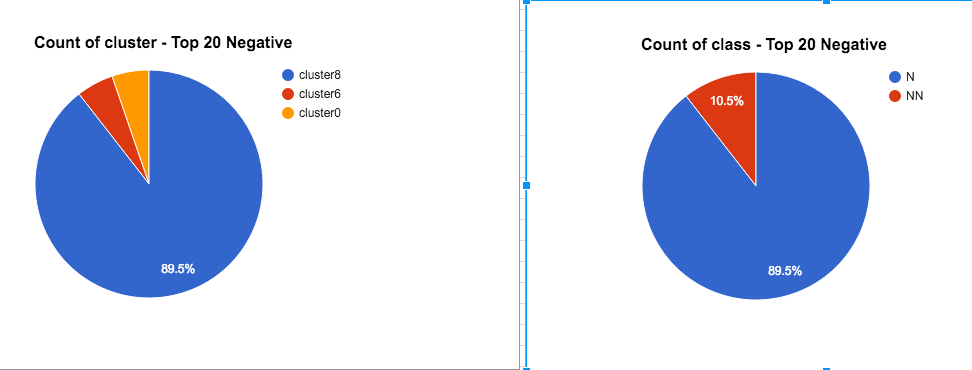
**30 Dimension analysis**

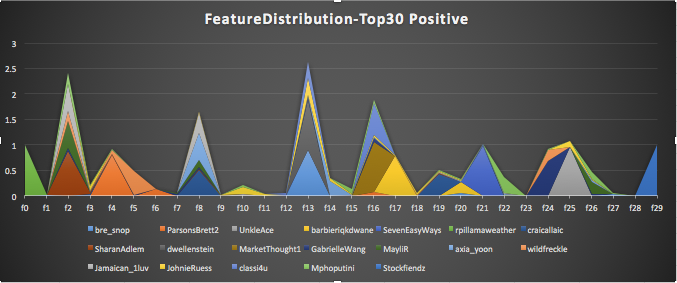
**3, u'0.017\*like + 0.015\*just + 0.010\*fuck + 0.009\*one + 0.007\*think + 0.007\*know + 0.006\*now + 0.006\*good + 0.006\*peopl + 0.006\*look'**

**15, u'0.017\*like + 0.016\*just + 0.014\*love + 0.012\*want + 0.011\*peopl + 0.009\*someon + 0.009\*life + 0.009\*feel + 0.009\*day + 0.008\*know**

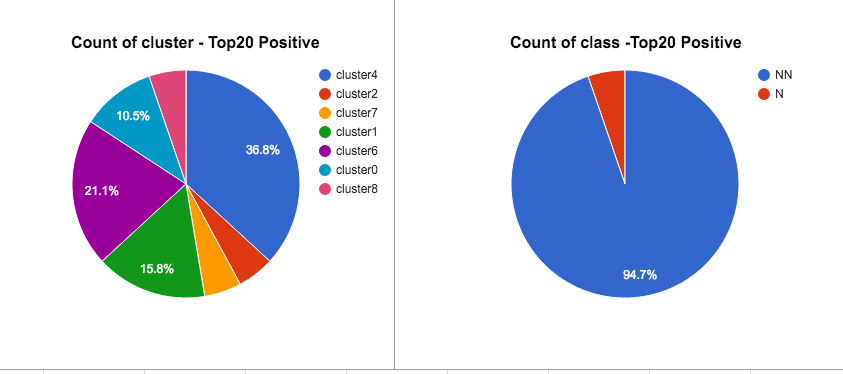
**(19, u'0.018\*like + 0.015\*just + 0.015\*fuck + 0.013\*shit + 0.009\*know + 0.008\*want + 0.008\*need + 0.008\*peopl + 0.008\*bitch + 0.008\*love')**

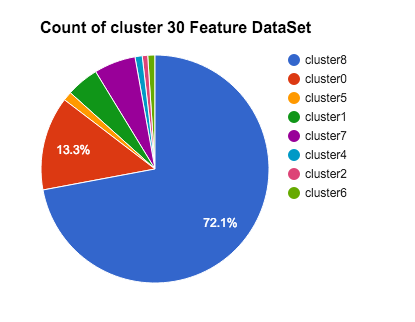


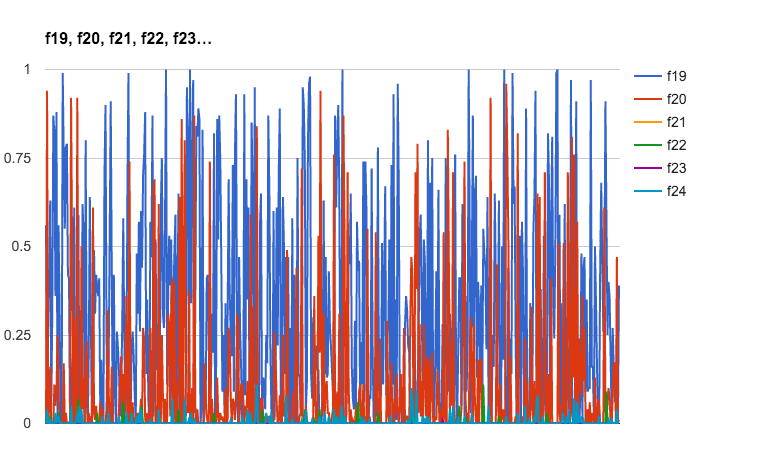




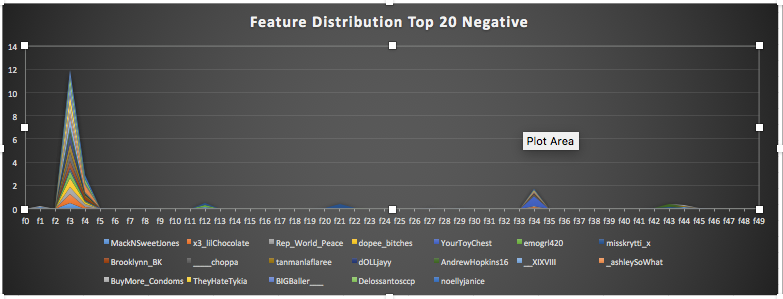
Looking at these graph its obvious how features are concentrated in case of N and all over in case of positive







**50 Dimension analysis**



(3, u'0.020\*like + 0.018\*fuck + 0.015\*just + 0.013\*shit + 0.009\*know + 0.008\*want + 0.007\*bitch + 0.007\*need + 0.007\*lmao + 0.007\*girl'),

34, u'0.010\*love + 0.009\*like + 0.009\*girl + 0.008\*just + 0.007\*good + 0.007\*time + 0.007\*will + 0.007\*day + 0.007\*know + 0.007\*one'

