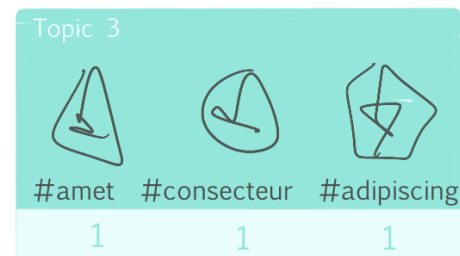
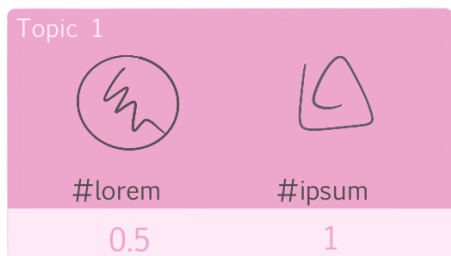


a)



#lorem, #ipsum,
#dolor, #sit, #amet,
#consectetur,
#adipiscing



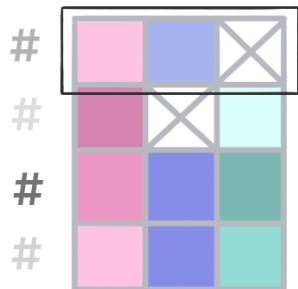
b)



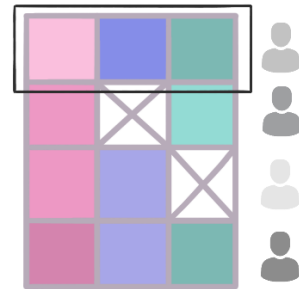
User vector = (1.5 , 2.5 , 3)



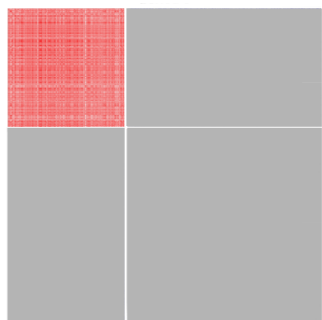
Hashtag vector = (1 , 1 , 0)



Cosine Similarity

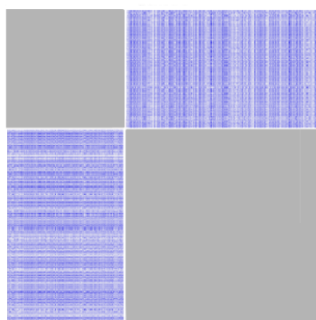


c)



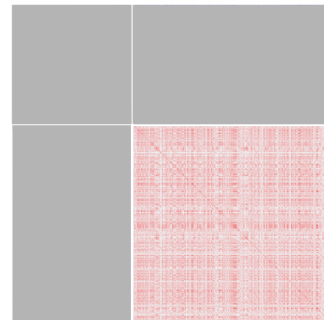
Hashtag-Hashtag
competition matrix

d)



User-Hashtag
mutualism matrix

e)



User-User
competition matrix

