20news10

init : python/lda.py -K 10 -N 100 ../data/20news.svm ../data/20news10				
host : MacBook-Pro.local				
start : Thu Jun 14 23:15:44 2018				
iterations		K=10	K=20	K=50	K=100
1	4816.9906	10229.4809	29526.8934	70085.3429
2	4609.9864	9271.2066	22807.6559	43372.204
3	4450.1037	8617.0145	19429.7332	33346.6996
4	4297.6149	8075.0771	16997.7106	26340.1311
5	4040.5517	7281.476	13777.6532	17715.7605
6	3463.8594	5581.9921	9493.7037	10547.7313
7	2662.7988	3823.7214	6278.6096	6881.2574
8	2017.7783	2862.89	4413.6537	5253.8824
9	1647.6506	2366.3603	3384.9055	4313.3511
10	1433.0599	2065.9294	2775.0284	3646.1837
11	1287.9515	1849.8985	2382.4345	3147.8253
12	1178.7159	1678.536	2112.7309	2771.7347
13	1095.8196	1538.3076	1917.5538	2489.1525
14	1031.4561	1427.0262	1773.0404	2279.1738
15	979.8862	1336.009	1661.0765	2113.3669
16	938.4404	1264.3987	1571.2865	1978.5991
17	905.3241	1205.9585	1501.145	1872.079
18	879.956	1157.1557	1438.7812	1784.3829
19	858.2175	1116.898	1387.9851	1708.557
20	838.6782	1082.7857	1343.1525	1648.3706
21	823.3959	1051.6527	1303.4391	1593.1111
22	809.3754	1026.5074	1268.5161	1544.3493
23	796.5903	1002.6479	1237.2257	1501.9633
24	785.1454	981.6751	1210.4385	1465.8333
25	774.5846	963.0247	1187.5984	1432.1324
26	764.538	946.2971	1164.3907	1402.536
27	755.8496	932.5745	1142.4258	1376.4301
28	748.5931	920.5568	1124.0151	1351.1551
29	741.0555	909.2316	1105.7683	1329.7036
30	734.6562	898.8651	1089.9422	1307.3551
31	728.2433	889.3882	1076.0167	1288.8999
32	722.3549	881.3617	1061.985	1271.0201
33	716.8778	873.6972	1049.2169	1256.1161
34	711.359	866.2851	1037.3297	1242.0478
35	706.8726	859.0688	1026.5005	1228.1106
36	703.0242	852.9457	1015.6332	1215.6185
37	699.4097	847.5022	1006.4468	1202.8154
38	695.5895	841.8681	996.0899	1191.0862
39	692.4746	837.7594	987.5151	1179.3885
40	689.4255	833.3554	980.2196	1169.3556
41	687.0549	829.5336	972.6243	1160.5408
42	684.3633	825.7575	965.67	1151.3372
43	680.978	822.4133	958.801	1142.6349
44	678.834	820.0105	952.4719	1134.3319
45	676.3321	816.551	947.7362	1127.4424
46	674.4186	813.1693	942.2508	1119.5347
47	672.2796	810.4345	937.2209	1112.5193
48	670.0307	807.9462	931.7273	1106.3314
49	668.0407	805.6166	927.2193	1099.7661
50	666.6097	803.8673	922.7438	1092.247
51	664.4537	802.0111	917.6371	1086.7287
52	662.9904	799.0414	912.6848	1078.9969
53	661.7184	797.7393	908.4856	1074.6068
54	660.4512	796.4366	905.264	1069.2171
55	658.7858	794.59	900.0513	1062.9725
56	657.4181	792.3301	896.7417	1057.9178
57	656.4683	791.0525	894.4497	1053.0367
58	655.2376	789.4837	891.8824	1048.4574
59	654.1623	787.6305	888.5332	1042.5021
60	653.669	785.8069	885.221	1038.0723
61	652.0529	784.9124	881.7036	1034.3563
62	651.8137	783.0927	878.863	1030.2148
63	650.7546	782.1885	876.212	1025.5224
64	650.1613	780.4948	873.949	1021.0909
65	649.8995	780.1356	870.4299	1016.7769
66	648.8786	779.1096	868.5471	1013.2581
67	648.1664	777.1417	866.777	1011.3042
68	647.4689	775.7517	864.9971	1008.59
69	646.8359	774.2701	862.4964	1005.8166
70	646.6387	774.3469	860.4241	1001.6029
71	646.744	772.6676	857.7747	999.0484
72	646.0338	771.8772	857.269	996.301
73	644.8099	771.1912	856.3836	992.6516
74	644.9121	770.8234	854.2225	989.5546
75	644.7649	769.658	853.2943	986.994
76	644.9692	768.3188	851.2948	985.0941
77	644.5771	767.6931	847.4843	982.059
78	644.1445	766.9494	846.1932	980.501
79	643.6702	765.9539	845.2719	977.0369
80	643.2793	764.7164	843.1635	974.0158
81	643.8623	763.9083	842.5981	971.7851
82	643.159	762.9837	840.6298	969.352
83	643.0495	762.6474	839.2993	966.5515
84	642.6977	761.8546	837.648	964.8817
85	642.2821	761.2457	835.9757	964.6909
86	642.1108	760.4839	834.4134	962.9233
87	641.8485	760.1327	833.5939	959.4271
88	641.556	759.3816	831.8814	958.6107
89	641.1224	758.7743	829.956	957.3997
90	641.0887	758.0517	829.3204	955.687
91	640.5934	758.1078	827.79	954.4301
92	640.7238	757.7022	827.2466	952.8073
93	640.5768	756.4649	826.5706	950.8608
94	640.0753	755.9914	825.0786	948.6142
95	640.0859	755.3541	824.4705	948.1992
96	640.4069	753.8771	823.2102	946.7244
97	640.2602	753.1402	822.8689	944.8147
98	639.9151	752.3027	822.3489	942.3723
99	639.7869	752.1882	820.9995	941.151
100	639.9225	752.2005	819.938	940.3563
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finish : Thu Jun 14 23:17:23 2018				