

Alexander Munoz

CSE 185

Lab 11

Due Date: 8 May 2020

Eigenfaces

K	Accuracy	Squared Error
10	0.675000	13.3868987381559
20	0.687500	19.3524310559401
30	0.718750	24.0734929804817
40	0.737500	30.3216438286738
50	0.737500	30.3381611183150

Error vector k = 50	Error vector k = 40	Error vector k = 30	Error vector k = 20	Error vector k = 10
61.8136481625330	61.7971308728917	57.3705328066650	53.7137573001267	47.5146412435705
79.3885752701017	79.3720579804604	78.9089530060468	70.6040167755360	55.9362855035036
46.1588007822528	46.1422834926115	42.5089415069721	40.6746103200560	18.2722995454462
39.8121051119059	39.7955878222646	37.1532703069652	29.9678038255917	22.1122791277815
36.6906792082005	36.6741619185593	33.4368988667780	29.4279678023731	21.5851903983227
69.1313155331711	69.1147982435298	67.1589547643056	59.8271427708547	48.7450044877445
75.0734247322514	75.0569074426102	74.1204036056257	64.5014731772127	52.4425237793221
70.6889680294100	70.6724507397687	69.6808567025113	64.2376063265253	52.8805701950037
71.4324194416707	71.4159021520294	70.3968866674270	60.8421351817753	57.8353298634140
131.450271951261	131.433754661620	130.725322949719	128.401399017796	116.126418672345
100.982866836097	100.966349546455	100.282126701522	97.3568026189105	77.1771411373808
43.4320249717449	43.4155076821037	40.5067128697333	31.8326147928806	21.6159737942437
54.9333459381501	54.9168286485088	51.4881106827511	45.1961758250036	34.3876946244122
130.051942899651	130.035425610009	128.117365913993	125.672640849527	109.606947949424
81.5130832202885	81.4965659306472	79.2275436592394	71.5056620146004	57.4538603842768
120.529319261377	120.512801971736	119.730672099335	116.270192227896	96.0228552357629
74.5410661064387	74.5245488167974	71.7849410355175	67.0451469480766	53.8411630542575
51.9214313193553	51.9049140297140	51.0089451852433	45.2102329923807	33.8399684688001
90.2867853419814	90.2702680523401	87.5238594308785	84.6379149936581	67.3772924807372
110.721346664242	110.704829374601	107.236211309282	102.040312237683	82.8547228305085
82.6910205153301	82.6745032256889	77.8496453911782	70.8034058778666	63.1403612463717
123.061114218828	123.044596929187	120.182951779674	111.402012102569	107.065946818191
42.2562723224105	42.2397550327692	37.8206334391305	34.9820516584455	28.4583786687218
85.9622972218514	85.9457799322101	80.9537274222532	78.0316839696145	74.0446896405131
30.3381611183150	30.3216438286738	24.0734929804817	19.3524310559401	13.3868987381559
46.7780263820143	46.7615090923730	41.7631447850431	39.0613158824857	26.4831501931406
95.6312979342223	95.6147806445810	94.2714676128896	89.4075905373225	65.1594409198485
71.2739984380976	71.2574811484563	67.6157493486334	64.1841688140029	59.1890470232546
117.003915457423	116.987398167782	112.718975924467	106.569946017783	95.9405607991211

80.1101626701228	80.0936453804815	75.3878324473566	71.9291283033627	63.5936777319266
80.6398055355831	80.6232882459418	79.2734963076428	72.9261484541744	64.0227856066903
74.7688253283549	74.7523080387136	74.0582449431158	69.8693558329725	62.4391893381258
124.972876770163	124.956359480521	122.763541022192	118.913622132367	110.949779327821
142.237569184951	142.221051895310	140.517735073742	131.232500575324	123.739248378231
69.0329619848935	69.0164446952523	68.6386073856847	61.0051296834640	45.1266994732597
68.9968007154854	68.9802834258441	67.6752111050665	64.3476021576456	52.1345168830707
64.9446000523220	64.9280827626807	61.2200937558240	56.2128668664191	49.3636853958305
59.8493049611413	59.8327876715000	56.6930217343820	50.6431676655456	40.1959570545393
139.714173881870	139.697656592229	134.677483524611	131.654261480843	122.863002781565
44.9932379041697	44.9767206145284	41.9436436214707	38.8809496906024	25.3248662696236