- 1 /usr/local/Cellar/python/2.7.14/Frameworks/Python.framework/Versions/2.7/bin/python2.7 /Users/
  NancyFan/workspace/RomanUU/landmark\_face.py
- 2 load neutral pics
- 3 ...Neutral emotion: [56.938511326860784, 121.69579288025889, 74.62135922330091, 104. 000000000003, 100.25566343042078, 98.1294498381877, 126.78317152103564, 100.85760517799349, 152.85113268608433. 109.47249190938501. 193.83495145631073. 109.14563106796126. 219. 27508090614896, 99.71844660194168, 245.90614886731396, 96.41747572815542, 271.7346278317146, 101.60194174757275, 290.12944983818795, 118.94822006472492, 87.58252427184472, 143. 38834951456292, 102.34304207119733, 133.20388349514596, 121.34951456310687, 132.66990291262132 , 138.65372168284802, 144.7411003236246, 120.5760517799353, 149.3398058252426, 101. 71521035598698, 149.90938511326854, 209.64401294498387, 143.92880258899686, 226.12297734627836 , 131.64077669902915, 245.26537216828478, 131.48220064724958, 260.9158576051779, 141. 3915857605178, 246.24595469255664, 148.19417475728167, 227.08414239482187, 147.93527508090614, 124.80258899676369, 271.9902912621359, 143.2686084142395, 260.495145631068, 161.54368932038852 , 253.24271844660203, 175.42394822006455, 256.96440129449854, 188.43042071197414, 252. 99029126213603, 207.10032362459526, 259.5889967637538, 226.4983818770226, 270.49190938511333, 218.3527508090615, 270.3656957928802, 189.01294498381878, 267.23624595469295, 175. 58576051779934, 268.8770226537219, 161.51456310679617, 267.42071197411025, 132.93851132686072, 271.66343042071145, 226.4983818770226, 270.49190938511333, 208.06148867313934, 282. 11003236245983, 190.11326860841433, 287.72815533980577, 176.000000000002, 289.1326860841426, 161.26213592232986, 288.03559870550185, 143.346278317152, 282.909385113269, 124.80258899676369 . 271.9902912621359. 132.93851132686072. 271.66343042071145. 161.5469255663433. 268. 6019417475732, 175.56634304207128, 270.1618122977345, 189.0388349514562, 268.3462783171525, 218 .3527508090615, 270.36569579288021
- 4 load anger pics
- 5 load contempt pics
- 6 load disgust pics
- 7 load fear pics
- 8 load happy pics
- 9 load sadness pics
- 10 load surprise pics
- 11 load data END
- 12 (334, 8464) [[ -6.93851133 -71.69579288 -24.62135922 ..., -7.34627832 42.64724919

```
13
    -9.365695791
  [ -7.93851133 -72.69579288 -25.62135922 .... -9.34627832 40.64724919
15
   -11.365695791
16
  [ -7.93851133 -72.69579288 -25.62135922 .... 2.65372168 52.64724919
17
     0.634304211
18
19
   [ 11.06148867 -53.69579288 -6.62135922 ..., 19.65372168 69.64724919
20
    17.634304211
21 [ 6.06148867 -58.69579288 -11.62135922 ..., 25.65372168 75.64724919
22
    23.634304211
23 [ -4.93851133 -69.69579288 -22.62135922 .... 30.65372168 80.64724919
24
    28.6343042111
27
               28
29
30
34 71
35 (309, 8464) [[ 0.
                      -64.75728155 -17.6828479 .... 2.01941748 52.01294498
36
     0.
37
  [ 4.06148867 -60.69579288 -13.62135922 ..., 5.65372168 55.64724919
38
     3.634304211
  [ -1.93851133 -66.69579288 -19.62135922 .... 5.65372168 55.64724919
     3.63430421]
40
41 ...,
42
  [ 6.06148867 -58.69579288 -11.62135922 .... 2.65372168 52.64724919
43
     0.63430421]
44 [ 2.06148867 -62.69579288 -15.62135922 .... 5.65372168 55.64724919
45
     3.634304211
```

```
3.65372168 53.64724919
     -6.93851133 -71.69579288 -24.62135922 ....
46
47
       1.6343042111
48 309
49 (334, 8464) (334,) (309, 8464) 309
50 eyebrow-eye-mouth (relative redundant)
51 Computing t-SNE embedding
52 Computing PCA embedding
53 Computing LDA embedding
54 /usr/local/lib/python2.7/site-packages/sklearn/discriminant analysis.py:387: UserWarning:
  Variables are collinear.
55
    warnings.warn("Variables are collinear.")
56
57 detect neutral, train set size: 514 , test set size: 129
58 Train Model...
59 models saved
60
61 SVC(C=1.0, cache size=200, class weight=None, coef0=0.0,
    decision function shape=None, degree=3, gamma='auto', kernel='linear',
    max iter=-1, probability=False, random state=None, shrinking=True,
   tol=0.001, verbose=False)
65 train set score: 0.875486381323
66 test set score: 0.790697674419
67
68 SVC(C=1.0, cache size=200, class weight=None, coef0=0.0,
    decision function shape=None, degree=3, gamma='auto', kernel='poly',
70
    max iter=-1, probability=False, random state=None, shrinking=True,
    tol=0.001, verbose=False)
72 train set score: 1.0
73 test set score: 0.84496124031
74
75 SVC(C=1.0, cache size=200, class weight=None, coef0=0.0,
    decision_function_shape=None, degree=3, gamma='auto', kernel='rbf',
77
    max iter=-1, probability=False, random state=None, shrinking=True,
```

```
tol=0.001, verbose=False)
 78
79 train set score: 1.0
80 test set score: 0.573643410853
 81
 82 SVC(C=1.0, cache size=200, class weight=None, coef0=0.0,
     decision function shape=None, degree=3, gamma='auto', kernel='sigmoid',
 83
 84
     max iter=-1, probability=False, random state=None, shrinking=True,
 85 tol=0.001, verbose=False)
86 train set score: 0.531128404669
87 test set score: 0.472868217054
88 Classify emotion, train set size: 267, test set size: 67
89 Train Model...
 90 models saved
 91
 92 SVC(C=1.0, cache size=200, class weight=None, coef0=0.0,
     decision_function_shape=None, degree=3, gamma='auto', kernel='linear'.
 94
     max iter=-1, probability=False, random state=None, shrinking=True,
    tol=0.001, verbose=False)
 96 train set score: 1.0
97 test set score: 0.910447761194
 98
 99 SVC(C=1.0, cache size=200, class weight=None, coef0=0.0,
     decision function shape=None, degree=3, gamma='auto', kernel='poly',
100
101
     max iter=-1, probability=False, random state=None, shrinking=True,
102
     tol=0.001, verbose=False)
103 train set score: 1.0
104 test set score: 0.89552238806
105
106 SVC(C=1.0, cache size=200, class weight=None, coef0=0.0,
      decision function shape=None, degree=3, gamma='auto', kernel='rbf',
107
108
     max iter=-1, probability=False, random state=None, shrinking=True,
109
     tol=0.001, verbose=False)
110 train set score: 1.0
```

```
111 test set score: 0.208955223881
112
113 SVC(C=1.0, cache_size=200, class_weight=None, coef0=0.0,
      decision_function_shape=None, degree=3, gamma='auto', kernel='sigmoid',
114
115
     max_iter=-1, probability=False, random_state=None, shrinking=True,
     tol=0.001, verbose=False)
116
117 train set score: 0.23595505618
118 test set score: 0.208955223881
119
120 Process finished with exit code 0
121
```