

```
Trial>> gen_data
Trial>> [w, table] = linear_classifier(X_tr,d_tr,X_va,d_va,X_test,d_test,X,S,0.001,2,0.1);
lambda = 0.001000 -> CER = 0.150940

lambda = 0.101000 -> CER = 0.147486

lambda = 0.201000 -> CER = 0.149793

lambda = 0.301000 -> CER = 0.238259

lambda = 0.401000 -> CER = 0.154072

lambda = 0.501000 -> CER = 0.159605

lambda = 0.601000 -> CER = 0.149263

lambda = 0.701000 -> CER = 0.148980

lambda = 0.801000 -> CER = 0.148915

lambda = 0.901000 -> CER = 0.655728

lambda = 1.001000 -> CER = 0.153595

lambda = 1.101000 -> CER = 0.151619

lambda = 1.201000 -> CER = 0.151548

lambda = 1.301000 -> CER = 0.154429

lambda = 1.401000 -> CER = 0.286695

lambda = 1.501000 -> CER = 0.163865

lambda = 1.601000 -> CER = 0.152993

lambda = 1.701000 -> CER = 0.164654

lambda = 1.801000 -> CER = 0.169756

lambda = 1.901000 -> CER = 0.164332
```

RESULT OF VALIDATION

```
best_lambda = 0.101000 -> CER = 0.147486
```

RESULT IN TESTING

```
CER per class
```

```
0.0301
0.1969
0.1590
0.1097
0.2651
0.0750
0.1347
0.2461
0.1990
0.0419
CER = 0.145757
```

```
Trial>>
```