```
1 "C:\Users\Thomas Lienbacher\AppData\Local\Programs\Python\Python37\python.exe" E:/Thomas/one-man-rps/
   prototype-scripts/src/train_network_generators.py
 2 C:\Users\Thomas Lienbacher\AppData\Local\Programs\Python\Python37\lib\site-packages\tensorflow\python\
   framework\dtypes.py:516: FutureWarning: Passing (type, 1) or '1type' as a synonym of type is deprecated
   ; in a future version of numpy, it will be understood as (type, (1,)) / '(1,)type'. _np_qint8 = np.dtype([("qint8", np.int8, 1)])
 4 C:\Users\Thomas Lienbacher\AppData\Local\Programs\Python\Python37\lib\site-packages\tensorflow\python\
   framework\dtypes.py:517: FutureWarning: Passing (type, 1) or '1type' as a synonym of type is deprecated
   ; in a future version of numpy, it will be understood as (type, (1,)) / '(1,)type'.
      _np_quint8 = np.dtype([("quint8", np.uint8, 1)])
 6 C:\Users\Thomas Lienbacher\AppData\Local\Programs\Python\Python37\lib\site-packages\tensorflow\python\
   framework\dtypes.py:518: FutureWarning: Passing (type, 1) or 'ltype' as a synonym of type is deprecated; in a future version of numpy, it will be understood as (type, (1,)) / '(1,)type'.
      _np_qint16 = np.dtype([("qint16", np.int16, 1)])
 8 C:\Users\Thomas Lienbacher\AppData\Local\Programs\Python\Python37\lib\site-packages\tensorflow\python\
   framework\dtypes.py:519: FutureWarning: Passing (type, 1) or 'ltype' as a synonym of type is deprecated; in a future version of numpy, it will be understood as (type, (1,)) / '(1,)type'.
      _np_quint16 = np.dtype([("quint16", np.uint16, 1)])
10 C:\Users\Thomas Lienbacher\AppData\Local\Programs\Python\Python37\lib\site-packages\tensorflow\python\
   framework\dtypes.py:520: FutureWarning: Passing (type, 1) or '1type' as a synonym of type is deprecated
   ; in a future version of numpy, it will be understood as (type, (1,)) / (1,)type'.
      _np_qint32 = np.dtype([("qint32", np.int32, 1)])
12 C:\Users\Thomas Lienbacher\AppData\Local\Programs\Python\Python37\lib\site-packages\tensorflow\python\
   framework\dtypes.py:525: FutureWarning: Passing (type, 1) or '1type' as a synonym of type is deprecated
   ; in a future version of numpy, it will be understood as (type, (1,)) / (1,)type'.
     np_resource = np.dtype([("resource", np.ubyte, 1)])
14 C:\Users\Thomas Lienbacher\AppData\Local\Programs\Python\Python37\lib\site-packages\tensorboard\compat\
   tensorflow_stub\dtypes.py:541: FutureWarning: Passing (type, 1) or '1type' as a synonym of type is
   deprecated; in a future version of numpy, it will be understood as (type, (1,)) / '(1,)type'.
    _np_qint8 = np.dtype([("qint8", np.int8, 1)])
16 C:\Users\Thomas Lienbacher\AppData\Local\Programs\Python\Python37\lib\site-packages\tensorboard\compat\
   tensorflow_stub\dtypes.py:542: FutureWarning: Passing (type, 1) or '1type' as a synonym of type is
   deprecated; in a future version of numpy, it will be understood as (type, (1,)) / '(1,)type'
      _np_quint8 = np.dtype([("quint8", np.uint8, 1)])
18 C:\Users\Thomas Lienbacher\AppData\Local\Programs\Python\Python37\lib\site-packages\tensorboard\compat\
   tensorflow_stub\dtypes.py:543: FutureWarning: Passing (type, 1) or '1type' as a synonym of type is deprecated; in a future version of numpy, it will be understood as (type, (1,)) / '(1,)type'.
      _np_qint16 = np.dtype([("qint16", np.int16, 1)])
20 C:\Users\Thomas Lienbacher\AppData\Local\Programs\Python\Python37\lib\site-packages\tensorboard\compat\
   tensorflow_stub\dtypes.py:544: FutureWarning: Passing (type, 1) or '1type' as a synonym of type is deprecated; in a future version of numpy, it will be understood as (type, (1,)) / '(1,)type'.
     _np_quint16 = np.dtype([("quint16", np.uint16, 1)])
22 C:\Users\Thomas Lienbacher\AppData\Local\Programs\Python\Python37\lib\site-packages\tensorboard\compat\
   tensorflow_stub\dtypes.py:545: FutureWarning: Passing (type, 1) or 'ltype' as a synonym of type is deprecated; in a future version of numpy, it will be understood as (type, (1,)) / '(1,)type'.
      _np_qint32 = np.dtype([("qint32", np.int32, 1)])
24 C:\Users\Thomas Lienbacher\AppData\Local\Programs\Python\Python37\lib\site-packages\tensorboard\compat\
   tensorflow_stub\dtypes.py:550: FutureWarning: Passing (type, 1) or '1type' as a synonym of type is
   deprecated; in a future version of numpy, it will be understood as (type, (1,)) / '(1,)type'.
     np_resource = np.dtype([("resource", np.ubyte, 1)])
26 Working in: E:/Thomas/one-man-rps/data
27 batch size 60
28 epochs 19
29 steps per epoch 267.0
30 class names ['empty' 'paper' 'rock' 'scissors']
31 train ImageDataGenerator:
32 {'_validation_split': 0.0,
    'brightness_range': (0.8, 1.2),
34
    'channel_axis': 3,
35
     'channel_shift_range': 0.0,
    'col_axis': 2,
36
37
    'cval': 0.0,
38
    'data_format': 'channels_last',
39
    'dtype': 'float32',
    'featurewise_center': False,
40
41
    'featurewise_std_normalization': False,
    'fill_mode': 'nearest',
'height_shift_range': 0.15,
42
43
    'horizontal_flip': True,
45
    'interpolation_order': 1,
46
    'mean': None,
47
    'preprocessing_function': None,
48
    'principal_components': None,
    'rescale': 0.00392156862745098,
50
    'rotation_range': 15,
    'row_axis': 1,
    'samplewise_center': False,
```

```
'samplewise_std_normalization': False,
 53
 54
     'shear_range': 0.15,
     'std': None,
 55
     'vertical_flip': False,
 57
     'width_shift_range': 0.15,
     'zca_epsilon': 1e-06,
 58
     'zca_whitening': False,
 60
    'zoom_range': [0.85, 1.15]}
 61 Found 48008 images belonging to 4 classes.
 62 Found 11996 images belonging to 4 classes.
 63 WARNING: Logging before flag parsing goes to stderr.
 64 W0316 11:16:30.568609 20176 deprecation.py:506] From C:\Users\Thomas Lienbacher\AppData\Local\Programs\
    Python\Python37\lib\site-packages\tensorflow\python\ops\init_ops.py:1251: calling VarianceScaling.
    __init__ (from tensorflow.python.ops.init_ops) with dtype is deprecated and will be removed in a future
     version.
 65 Instructions for updating:
 66 Call initializer instance with the dtype argument instead of passing it to the constructor
 67 2020-03-16 11:16:30.824845: I tensorflow/core/platform/cpu_feature_guard.cc:142] Your CPU supports
    instructions that this TensorFlow binary was not compiled to use: AVX2
 68 Epoch 1/19
 69
      1/267 [.....] - ETA: 9:35 - loss: 1.4034 - acc: 0.2000 2/267 [.....] - ETA: 6:54 - loss: 1.4299 - acc: 0.2333
 70
 71
 72
      3/267 [.....] - ETA: 6:44 - loss: 1.4157 - acc: 0.2222
      73
 74
      6/267 [.....] - ETA: 6:40 - loss: 1.4046 - acc: 0.2139
 75
      7/267 [.....] - ETA: 6:36 - loss: 1.4009 - acc: 0.2357
 76
     8/267 [....] - ETA: 6:33 - loss: 1.3988 - acc: 0.2396
9/267 [>....] - ETA: 6:26 - loss: 1.3989 - acc: 0.2315
 77
 78
     10/267 [>.....] - ETA: 6:20 - loss: 1.3972 - acc: 0.2467
     11/267 [>.................] - ETA: 6:17 - loss: 1.3967 - acc: 0.2500 12/267 [>.................] - ETA: 6:17 - loss: 1.3955 - acc: 0.2569
 80
     13/267 [>.....] - ETA: 6:18 - loss: 1.3952 - acc: 0.2551
    17/267 [>.....] - ETA: 6:16 - loss: 1.3921 - acc: 0.2657
     18/267 [=>.....] - ETA: 6:16 - loss: 1.3924 - acc: 0.2583
19/267 [=>.....] - ETA: 6:15 - loss: 1.3919 - acc: 0.2596
 87
     20/267 [=>.....] - ETA: 6:12 - loss: 1.3911 - acc: 0.2667
21/267 [=>.....] - ETA: 6:08 - loss: 1.3907 - acc: 0.2690
 90
     22/267 [=>....] - ETA: 6:06 - loss: 1.3902 - acc: 0.2712
23/267 [=>....] - ETA: 6:04 - loss: 1.3896 - acc: 0.2754
 91
 92
     24/267 [=>.....] - ETA: 6:05 - loss: 1.3892 - acc: 0.2771
     25/267 [=>....] - ETA: 6:04 - loss: 1.3882 - acc: 0.2860
26/267 [=>....] - ETA: 6:03 - loss: 1.3874 - acc: 0.2917
 95
     27/267 [==>.....] - ETA: 6:02 - loss: 1.3873 - acc: 0.2944
     28/267 [==>....] - ETA: 6:02 - loss: 1.3870 - acc: 0.2929
29/267 [==>....] - ETA: 6:01 - loss: 1.3870 - acc: 0.2925
30/267 [==>....] - ETA: 5:58 - loss: 1.3866 - acc: 0.2900
     31/267 [==>.....] - ETA: 5:56 - loss: 1.3860 - acc: 0.2930
     32/267 [==>....] - ETA: 5:54 - loss: 1.3868 - acc: 0.2891
33/267 [==>....] - ETA: 5:52 - loss: 1.3866 - acc: 0.2894
101
102
    34/267 [==>.......] - ETA: 5:51 - loss: 1.3864 - acc: 0.2882
35/267 [==>.......] - ETA: 5:49 - loss: 1.3849 - acc: 0.2900
36/267 [==>......] - ETA: 5:48 - loss: 1.3835 - acc: 0.2981
37/267 [==>......] - ETA: 5:47 - loss: 1.3822 - acc: 0.3041
103
104
106
107
     38/267 [===>.....] - ETA: 5:45 - loss: 1.3809 - acc: 0.3061
     39/267 [===>...] - ETA: 5:43 - loss: 1.3791 - acc: 0.3103
40/267 [===>...] - ETA: 5:42 - loss: 1.3769 - acc: 0.3142
108
109
     41/267 [===>.....] - ETA: 5:41 - loss: 1.3750 - acc: 0.3163
110
     42/267 [===>...] - ETA: 5:40 - loss: 1.3727 - acc: 0.3179
43/267 [===>...] - ETA: 5:38 - loss: 1.3704 - acc: 0.3209
111
112
     44/267 [===>.....] - ETA: 5:37 - loss: 1.3695 - acc: 0.3208
113
     45/267 [====>.....] - ETA: 5:36 - loss: 1.3674 - acc: 0.3200
114
     46/267 [====>....] - ETA: 5:35 - loss: 1.3626 - acc: 0.3239
47/267 [====>....] - ETA: 5:33 - loss: 1.3632 - acc: 0.3216
115
116
     48/267 [====>.....] - ETA: 5:32 - loss: 1.3608 - acc: 0.3219
117
     49/267 [====>...] - ETA: 5:30 - loss: 1.3603 - acc: 0.3201 50/267 [====>...] - ETA: 5:28 - loss: 1.3581 - acc: 0.3217
118
119
     51/267 [====>...... ] - ETA: 5:27 - loss: 1.3564 - acc: 0.3219
120
     52/267 [====>.....] - ETA: 5:25 - loss: 1.3539 - acc: 0.3224
121
     53/267 [====>....] - ETA: 5:24 - loss: 1.3524 - acc: 0.3223
54/267 [====>....] - ETA: 5:22 - loss: 1.3491 - acc: 0.3244
122
123
     55/267 [=====>.....] - ETA: 5:21 - loss: 1.3529 - acc: 0.3230
125
     56/267 [=====>.....] - ETA: 5:19 - loss: 1.3501 - acc: 0.3235
```

File -	Run train_i	network_generators
126	57/267	[=====>] - ETA: 5:18 - loss: 1.3466 - acc: 0.3272
127		
	-	[=====>] - ETA: 5:17 - loss: 1.3447 - acc: 0.3290
128		[=====>] - ETA: 5:15 - loss: 1.3434 - acc: 0.3288
129	60/267	[====>] - ETA: 5:14 - loss: 1.3409 - acc: 0.3300
130	61/267	[=====>] - ETA: 5:12 - loss: 1.3376 - acc: 0.3328
131	62/267	[====>] - ETA: 5:11 - loss: 1.3339 - acc: 0.3366
	-	[=====>] - ETA: 5:09 - loss: 1.3330 - acc: 0.3365
		[=====>] - ETA: 5:07 - loss: 1.3304 - acc: 0.3383
134	-	[=====>] - ETA: 5:06 - loss: 1.3270 - acc: 0.3408
135	66/267	[=====>] - ETA: 5:05 - loss: 1.3243 - acc: 0.3414
136	67/267	[=====>] - ETA: 5:03 - loss: 1.3198 - acc: 0.3445
137	68/267	[=====>] - ETA: 5:02 - loss: 1.3167 - acc: 0.3456
138		[=====>] - ETA: 5:00 - loss: 1.3121 - acc: 0.3478
139		[=====>] - ETA: 4:58 - loss: 1.3085 - acc: 0.3498
140		[=====>] - ETA: 4:57 - loss: 1.3049 - acc: 0.3516
141	72/267	[======>] - ETA: 4:56 - loss: 1.3009 - acc: 0.3542
142	73/267	[======>] - ETA: 4:54 - loss: 1.2975 - acc: 0.3555
143	74/267	[======>] - ETA: 4:53 - loss: 1.2913 - acc: 0.3592
144		[======>] - ETA: 4:51 - loss: 1.2886 - acc: 0.3609
145		[======>] - ETA: 4:50 - loss: 1.2851 - acc: 0.3629
146		[======>] - ETA: 4:48 - loss: 1.2808 - acc: 0.3645
147	-	[======>] - ETA: 4:47 - loss: 1.2790 - acc: 0.3647
148		[======>] - ETA: 4:46 - loss: 1.2754 - acc: 0.3665
149	80/267	[======>] - ETA: 4:44 - loss: 1.2714 - acc: 0.3688
		[======>] - ETA: 4:42 - loss: 1.2679 - acc: 0.3710
		[======>] - ETA: 4:41 - loss: 1.2644 - acc: 0.3726
		[======>] - ETA: 4:41
	84/267	[=======>] - ETA: 4:38 - loss: 1.2578 - acc: 0.3752
154		[======>] - ETA: 4:37 - loss: 1.2552 - acc: 0.3759
		[======>] - ETA: 4:35 - loss: 1.2522 - acc: 0.3779
156	87/267	[======>] - ETA: 4:33 - loss: 1.2479 - acc: 0.3810
157		[======>] - ETA: 4:32 - loss: 1.2440 - acc: 0.3826
		[=======>] - ETA: 4:31 - loss: 1.2401 - acc: 0.3848
159		
	-	[=======>] - ETA: 4:29 - loss: 1.2373 - acc: 0.3867
	_	[=======>] - ETA: 4:28 - loss: 1.2339 - acc: 0.3879
		[======>] - ETA: 4:26 - loss: 1.2315 - acc: 0.3891
162	93/267	[=======>] - ETA: 4:25 - loss: 1.2274 - acc: 0.3912
163	94/267	[=======>] - ETA: 4:23 - loss: 1.2235 - acc: 0.3933
164		[=======>
		[=======>] - ETA: 4:20 - loss: 1.2178 - acc: 0.3960
		[=======>] - ETA: 4:20
	-	<del>-</del>
167		[=======>] - ETA: 4:17 - loss: 1.2099 - acc: 0.3998
		[=======>] - ETA: 4:16 - loss: 1.2058 - acc: 0.4020
169	100/267	[=======>] - ETA: 4:14 - loss: 1.2039 - acc: 0.4033
170	101/267	[=======>] - ETA: 4:13 - loss: 1.2030 - acc: 0.4040
		[=======>] - ETA: 4:11 - loss: 1.2001 - acc: 0.4046
		[=======>] - ETA: 4:09 - loss: 1.1970 - acc: 0.4063
		[=======>] - ETA: 4:08 - loss: 1.1952 - acc: 0.4072
		[=======>] - ETA: 4:06 - loss: 1.1917 - acc: 0.4087
		[=======>] - ETA: 4:05 - loss: 1.1876 - acc: 0.4112
		[=======>] - ETA: 4:03 - loss: 1.1837 - acc: 0.4131
		[=======>] - ETA: 4:01 - loss: 1.1811 - acc: 0.4144
		[=======>] - ETA: 4:00 - loss: 1.1777 - acc: 0.4159
		[========>] - ETA: 3:58 - loss: 1.1753 - acc: 0.4174
		[========>] - ETA: 3:57 - loss: 1.1735 - acc: 0.4177
		[========>] - ETA: 3:55 - loss: 1.1700 - acc: 0.4170
		[========>] - ETA: 3:53 - loss: 1.1671 - acc: 0.4206
		[========>] - ETA: 3:52 - loss: 1.1646 - acc: 0.4218
		[========>] - ETA: 3:50 - loss: 1.1618 - acc: 0.4241
185	116/267	[=======>] - ETA: 3:49 - loss: 1.1593 - acc: 0.4253
186	117/267	[=======>] - ETA: 3:47 - loss: 1.1574 - acc: 0.4265
		[========>] - ETA: 3:46 - loss: 1.1553 - acc: 0.4274
188	119/267	[========>] - ETA: 3:44 - loss: 1.1540 - acc: 0.4280
		[========>] - ETA: 3:44 - loss: 1.1504 - acc: 0.4299
		[========>] - ETA: 3:41 - loss: 1.1481 - acc: 0.4307
		[========>] - ETA: 3:40 - loss: 1.1458 - acc: 0.4320
192	123/267	[=======>] - ETA: 3:38 - loss: 1.1435 - acc: 0.4329
		[=======>] - ETA: 3:36 - loss: 1.1406 - acc: 0.4347
		[========>] - ETA: 3:35 - loss: 1.1375 - acc: 0.4365
		[========>:] - ETA: 3:33 - loss: 1.1349 - acc: 0.4377
		[========>] - ETA: 3:31 - loss: 1.1324 - acc: 0.4392
		[========>] - ETA: 3:30 - loss: 1.1311 - acc: 0.4401
		[========>] - ETA: 3:28 - loss: 1.1298 - acc: 0.4410
199	130/267	[=======>] - ETA: 3:27 - loss: 1.1265 - acc: 0.4427
		[========>] - ETA: 3:25 - loss: 1.1248 - acc: 0.4438
		[========>] - ETA: 3:24 - loss: 1.1219 - acc: 0.4449
202	133/207	[========>] - ETA: 3:22 - loss: 1.1196 - acc: 0.4462

```
203 134/267 [=========>.....] - ETA: 3:21 - loss: 1.1177 - acc: 0.4468
204 135/267 [==========> .....] - ETA: 3:19 - loss: 1.1154 - acc: 0.4474
205 136/267 [==========> .....] - ETA: 3:18 - loss: 1.1130 - acc: 0.4487
254 185/267 [============>....] - ETA: 2:04 - loss: 1.0353 - acc: 0.4895
261 192/267 [===============>.....] - ETA: 1:54 - loss: 1.0259 - acc: 0.4949
```

```
- val_acc: 0.4889
337 Epoch 2/19
338
1/267 [.....] - ETA: 2:05 - loss: 0.4945 - acc: 0.7667
339
2/267 [.....] - ETA: 2:02 - loss: 0.5615 - acc: 0.7583
341
342
343
344
345
346
347
348
349
350 12/267 [>.....] - ETA: 1:54 - loss: 0.5622 - acc: 0.7708
351 13/267 [>.....] - ETA: 1:54 - loss: 0.5769 - acc: 0.7679
355 17/267 [>.....] - ETA: 2:47 - loss: 0.5900 - acc: 0.7618
```

File -	Run train_i	network_generators
356	18/267	[=>] - ETA: 2:57 - loss: 0.5810 - acc: 0.7639
357		[=>] - ETA: 3:07 - loss: 0.5855 - acc: 0.7596
358	20/267	[=>] - ETA: 3:16 - loss: 0.5842 - acc: 0.7633
359		[=>] - ETA: 3:27 - loss: 0.5974 - acc: 0.7571
360		[=>] - ETA: 3:33 - loss: 0.5901 - acc: 0.7606
361	23/267	[=>] - ETA: 3:40 - loss: 0.5886 - acc: 0.7609
362	24/267	[=>] - ETA: 3:46 - loss: 0.5869 - acc: 0.7618
363		[=>] - ETA: 3:51 - loss: 0.5875 - acc: 0.7620
364		[=>] - ETA: 3:55 - loss: 0.5885 - acc: 0.7603
365	27/267	[==>] - ETA: 4:01 - loss: 0.5896 - acc: 0.7605
366	28/267	[==>] - ETA: 4:05 - loss: 0.5892 - acc: 0.7613
367	-	[==>] - ETA: 4:09 - loss: 0.5906 - acc: 0.7603
368		[==>] - ETA: 4:13 - loss: 0.5897 - acc: 0.7606
369	31/267	[==>] - ETA: 4:15 - loss: 0.5940 - acc: 0.7602
370		[==>] - ETA: 4:18 - loss: 0.5896 - acc: 0.7635
371		[==>] - ETA: 4:21 - loss: 0.5863 - acc: 0.7641
_		
372		[==>] - ETA: 4:23 - loss: 0.5883 - acc: 0.7637
373		[==>] - ETA: 4:24 - loss: 0.5868 - acc: 0.7633
374	36/267	[===>] - ETA: 4:26 - loss: 0.5836 - acc: 0.7648
375		[===>] - ETA: 4:28 - loss: 0.5867 - acc: 0.7626
1		
376		[===>] - ETA: 4:30 - loss: 0.5851 - acc: 0.7640
377	39/267	[===>] - ETA: 4:32 - loss: 0.5812 - acc: 0.7662
378	40/267	[===>] - ETA: 4:33 - loss: 0.5752 - acc: 0.7683
379		[===>] - ETA: 4:35 - loss: 0.5713 - acc: 0.7695
380		[===>] - ETA: 4:36 - loss: 0.5680 - acc: 0.7710
381	43/267	[===>] - ETA: 4:38 - loss: 0.5655 - acc: 0.7713
382	44/267	[===>] - ETA: 4:39 - loss: 0.5634 - acc: 0.7723
383		[====>] - ETA: 4:40 - loss: 0.5623 - acc: 0.7722
384		[====>] - ETA: 4:41 - loss: 0.5617 - acc: 0.7732
385		[====>] - ETA: 4:41 - loss: 0.5644 - acc: 0.7720
386		[====>] - ETA: 4:42 - loss: 0.5618 - acc: 0.7726
387		[====>] - ETA: 4:45 - loss: 0.5599 - acc: 0.7721
388		[====>] - ETA: 4:45 - loss: 0.5610 - acc: 0.7717
389		[====>] - ETA: 4:45 - loss: 0.5608 - acc: 0.7722
390	52/267	[====>] - ETA: 4:45 - loss: 0.5606 - acc: 0.7721
391		[====>] - ETA: 4:45 - loss: 0.5596 - acc: 0.7736
_		
392		[====>] - ETA: 4:45 - loss: 0.5578 - acc: 0.7744
393		[=====>] - ETA: 4:44 - loss: 0.5593 - acc: 0.7736
394	56/267	[====>] - ETA: 4:44 - loss: 0.5572 - acc: 0.7741
395		[=====>] - ETA: 4:44 - loss: 0.5555 - acc: 0.7746
396		[====>] - ETA: 4:44
	-	<del>-</del>
397		[====>] - ETA: 4:42 - loss: 0.5553 - acc: 0.7768
398	60/267	[====>] - ETA: 4:42 - loss: 0.5542 - acc: 0.7767
399	61/267	[====>] - ETA: 4:41 - loss: 0.5562 - acc: 0.7765
400		[====>] - ETA: 4:40 - loss: 0.5536 - acc: 0.7782
401		[=====>] - ETA: 4:39 - loss: 0.5518 - acc: 0.7794
402		[=====>] - ETA: 4:39 - loss: 0.5501 - acc: 0.7797
403	65/267	[=====>] - ETA: 4:38 - loss: 0.5515 - acc: 0.7790
404		[=====>] - ETA: 4:38 - loss: 0.5506 - acc: 0.7790
405		[=====>] - ETA: 4:36 - loss: 0.5479 - acc: 0.7806
406		[=====>] - ETA: 4:35 - loss: 0.5465 - acc: 0.7811
407	69/267	[=====>] - ETA: 4:35 - loss: 0.5474 - acc: 0.7797
408		[=====>] - ETA: 4:34 - loss: 0.5499 - acc: 0.7781
409		[=====>] - ETA: 4:33 - loss: 0.5525 - acc: 0.7772
410		[======>] - ETA: 4:33 - loss: 0.5538 - acc: 0.7769
411		[======>] - ETA: 4:32 - loss: 0.5521 - acc: 0.7776
412	74/267	[======>] - ETA: 4:31 - loss: 0.5495 - acc: 0.7784
413		[======>] - ETA: 4:30 - loss: 0.5467 - acc: 0.7798
414		[======>] - ETA: 4:29 - loss: 0.5454 - acc: 0.7800
415		[======>] - ETA: 4:27 - loss: 0.5459 - acc: 0.7799
416		[======>] - ETA: 4:26 - loss: 0.5478 - acc: 0.7788
417	79/267	[======>] - ETA: 4:26 - loss: 0.5458 - acc: 0.7793
418		[======>] - ETA: 4:25 - loss: 0.5469 - acc: 0.7785
419		[======>] - ETA: 4:24 - loss: 0.5451 - acc: 0.7802
420		[======>] - ETA: 4:23 - loss: 0.5431 - acc: 0.7811
421		[======>] - ETA: 4:22 - loss: 0.5418 - acc: 0.7811
422		[======>] - ETA: 4:20 - loss: 0.5421 - acc: 0.7808
		[======>] - ETA: 4:19 - loss: 0.5411 - acc: 0.7816
423		
424		[======>] - ETA: 4:18 - loss: 0.5388 - acc: 0.7828
425	87/267	[======>] - ETA: 4:17 - loss: 0.5393 - acc: 0.7822
426		[======>] - ETA: 4:15 - loss: 0.5368 - acc: 0.7835
427		[=======>] - ETA: 4:14 - loss: 0.5353 - acc: 0.7837
428		[======>] - ETA: 4:13 - loss: 0.5326 - acc: 0.7846
429	91/267	[=======>] - ETA: 4:12 - loss: 0.5337 - acc: 0.7846
430		[=======>] - ETA: 4:11 - loss: 0.5318 - acc: 0.7850
431		[=======>] - ETA: 4:10 - loss: 0.5310 - acc: 0.7853
432	94/267	[======>] - ETA: 4:08 - loss: 0.5310 - acc: 0.7855
1		

```
95/267 [======>.....] - ETA: 4:07 - loss: 0.5297 - acc: 0.7860
433
434 96/267 [========>.....] - ETA: 4:06 - loss: 0.5274 - acc: 0.7865
435 97/267 [=======>.....] - ETA: 4:04 - loss: 0.5255 - acc: 0.7876
466 128/267 [========>....] - ETA: 3:24 - loss: 0.5017 - acc: 0.7958
470 132/267 [========>....] - ETA: 3:18 - loss: 0.4987 - acc: 0.7966
484 146/267 [==========>....] - ETA: 2:59 - loss: 0.4862 - acc: 0.8026
509 171/267 [=============>....] - ETA: 2:22 - loss: 0.4673 - acc: 0.8106
```

```
510 172/267 [===========>.....] - ETA: 2:21 - loss: 0.4662 - acc: 0.8109
540 202/267 [===============>.....] - ETA: 1:36 - loss: 0.4540 - acc: 0.8164
547 209/267 [===============>.....] - ETA: 1:26 - loss: 0.4499 - acc: 0.8177
561 223/267 [====================>....] - ETA: 1:05 - loss: 0.4445 - acc: 0.8211
```

```
- val_acc: 0.6143
606 Epoch 3/19
607
         1/267 [.....] - ETA: 2:00 - loss: 0.2939 - acc: 0.8667
608
         609
610
611
612
         613
614
615
         9/267 [>.....] - ETA: 1:55 - loss: 0.4289 - acc: 0.8426
616
       10/267 [>...........] - ETA: 1:55 - loss: 0.4228 - acc: 0.8433 11/267 [>............] - ETA: 1:54 - loss: 0.4241 - acc: 0.8394
617
618
       619
620
621
622
| 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/207 | 2 | 15/
       23/267 [=> ... ] - ETA: 3:37 - loss: 0.3548 - acc: 0.8681
24/267 [=> ... ] - ETA: 3:43 - loss: 0.3532 - acc: 0.8667
25/267 [=> ... ] - ETA: 3:46 - loss: 0.3482 - acc: 0.8687
631
632
       26/267 [=>......] - ETA: 3:51 - loss: 0.3470 - acc: 0.8679
27/267 [==>......] - ETA: 3:56 - loss: 0.3408 - acc: 0.8704
28/267 [==>......] - ETA: 4:00 - loss: 0.3414 - acc: 0.8702
29/267 [==>.....] - ETA: 3:52 - loss: 0.3361 - acc: 0.8703
633
634
635
636
637
       30/267 [==>.....] - ETA: 3:56 - loss: 0.3362 - acc: 0.8701
       31/267 [==>.....] - ETA: 3:59 - loss: 0.3395 - acc: 0.8700
32/267 [==>.....] - ETA: 4:02 - loss: 0.3404 - acc: 0.8699
638
639
       33/267 [==>.......] - ETA: 4:03 - loss: 0.3418 - acc: 0.8693
34/267 [==>.......] - ETA: 4:06 - loss: 0.34167 - acc: 0.8682
35/267 [==>.......] - ETA: 4:08 - loss: 0.3467 - acc: 0.8691
36/267 [==>.......] - ETA: 4:13 - loss: 0.3446 - acc: 0.8691
641
643
644
       37/267 [===>.....] - ETA: 4:16 - loss: 0.3460 - acc: 0.8695
       38/267 [===>....] - ETA: 4:19 - loss: 0.3460 - acc: 0.8685
39/267 [===>....] - ETA: 4:25 - loss: 0.3462 - acc: 0.8689
645
646

      40/267 [===>
      ] - ETA: 4:29 - loss: 0.3468 - acc: 0.8667

      41/267 [===>
      ] - ETA: 4:30 - loss: 0.3506 - acc: 0.8654

      42/267 [===>
      ] - ETA: 4:30 - loss: 0.3500 - acc: 0.8659

648
649
       43/267 [===>. . . . . ] - ETA: 4:30 - loss: 0.3505 - acc: 0.8655
44/267 [===>. . . . ] - ETA: 4:31 - loss: 0.3501 - acc: 0.8659
650
651
       45/267 [====>....] - ETA: 4:31 - loss: 0.3459 - acc: 0.8674
46/267 [====>....] - ETA: 4:31 - loss: 0.3436 - acc: 0.8685
652
653
       47/267 [====>....] - ETA: 4:31 - loss: 0.3427 - acc: 0.8689

48/267 [====>....] - ETA: 4:31 - loss: 0.3418 - acc: 0.8681

49/267 [====>....] - ETA: 4:31 - loss: 0.3415 - acc: 0.8684
654
655
656
       50/267 [====>...] - ETA: 4:32 - loss: 0.3424 - acc: 0.8674
51/267 [===>...] - ETA: 4:32 - loss: 0.3424 - acc: 0.8670
657
658
       52/267 [====>...] - ETA: 4:32 - loss: 0.3417 - acc: 0.8677
53/267 [====>...] - ETA: 4:31 - loss: 0.3411 - acc: 0.8683
54/267 [====>...] - ETA: 4:31 - loss: 0.3408 - acc: 0.8679
659
660
662 55/267 [====>.....] - ETA: 4:30 - loss: 0.3412 - acc: 0.8676
```

File -	Run train_	network_generators
663	56/267	[====>] - ETA: 4:30 - loss: 0.3395 - acc: 0.8688
664		[=====>] - ETA: 4:29 - loss: 0.3389 - acc: 0.8702
665		[====>] - ETA: 4:28 - loss: 0.3405 - acc: 0.8702
666		[====>] - ETA: 4:28 - loss: 0.3392 - acc: 0.8716
667		[=====>] - ETA: 4:27 - loss: 0.3387 - acc: 0.8715
668	-	[====>] - ETA: 4:26 - loss: 0.3393 - acc: 0.8703
669		[=====>] - ETA: 4:26 - loss: 0.3381 - acc: 0.8708
670		[=====>] - ETA: 4:25 - loss: 0.3373 - acc: 0.8710
671	64/267	[=====>] - ETA: 4:25 - loss: 0.3369 - acc: 0.8706
672		[=====>] - ETA: 4:24 - loss: 0.3374 - acc: 0.8698
673		[=====>] - ETA: 4:23 - loss: 0.3367 - acc: 0.8695
674	-	[=====>] - ETA: 4:22 - loss: 0.3373 - acc: 0.8692
675		[=====>] - ETA: 4:22
676		[=====>] - ETA: 4:20 - loss: 0.3343 - acc: 0.8701
677		[=====>] - ETA: 4:19 - loss: 0.3332 - acc: 0.8708
678	71/267	[=====>] - ETA: 4:18 - loss: 0.3328 - acc: 0.8710
679	72/267	[======>] - ETA: 4:19 - loss: 0.3314 - acc: 0.8716
680	73/267	[======>] - ETA: 4:19 - loss: 0.3330 - acc: 0.8715
681	74/267	[======>] - ETA: 4:18 - loss: 0.3325 - acc: 0.8715
682		[=====>] - ETA: 4:17 - loss: 0.3308 - acc: 0.8725
683	· .	[======>] - ETA: 4:17
684		[======>] - ETA: 4:10 - toss: 0.3302 - acc: 0.8727
685		[======>] - ETA: 4:14 - loss: 0.3278 - acc: 0.8736
686		[======>] - ETA: 4:13 - loss: 0.3271 - acc: 0.8733
687		[======>] - ETA: 4:12 - loss: 0.3276 - acc: 0.8736
688	-	[======>] - ETA: 4:11 - loss: 0.3282 - acc: 0.8731
689		[======>] - ETA: 4:10 - loss: 0.3291 - acc: 0.8735
690		[======>] - ETA: 4:08 - loss: 0.3297 - acc: 0.8730
691	84/267	[======>] - ETA: 4:08 - loss: 0.3292 - acc: 0.8727
		[======>] - ETA: 4:06 - loss: 0.3300 - acc: 0.8720
693		[======>] - ETA: 4:05 - loss: 0.3293 - acc: 0.8722
694		[======>] - ETA: 4:04 - loss: 0.3284 - acc: 0.8729
		[======>] - ETA: 4:03 - loss: 0.3275 - acc: 0.8730
696		[======>] - ETA: 4:02 - loss: 0.3265 - acc: 0.8733
697	90/267	[=======>] - ETA: 4:01 - loss: 0.3271 - acc: 0.8736
698		[=======>] - ETA: 4:00 - loss: 0.3259 - acc: 0.8741
699	92/267	[=======>] - ETA: 3:59 - loss: 0.3270 - acc: 0.8744
700		[======>] - ETA: 3:57 - loss: 0.3261 - acc: 0.8748
701		[=======>] - ETA: 3:56 - loss: 0.3261 - acc: 0.8749
		[=======>] - ETA: 3:55 - loss: 0.3276 - acc: 0.8745
703		[=======>] - ETA: 3:53 - loss: 0.3268 - acc: 0.8747
704		
1	9//26/	[=======>] - ETA: 3:52 - loss: 0.3269 - acc: 0.8747
705		[=======>] - ETA: 3:51 - loss: 0.3261 - acc: 0.8751
706		[=======>] - ETA: 3:50 - loss: 0.3256 - acc: 0.8747
707	100/267	[======>] - ETA: 3:49 - loss: 0.3244 - acc: 0.8754
		[======>] - ETA: 3:47 - loss: 0.3246 - acc: 0.8747
709	102/267	[======>] - ETA: 3:46 - loss: 0.3239 - acc: 0.8751
710	103/267	[======>] - ETA: 3:45 - loss: 0.3242 - acc: 0.8747
		[=======>] - ETA: 3:44 - loss: 0.3230 - acc: 0.8751
		[=======>] - ETA: 3:43 - loss: 0.3211 - acc: 0.8760
		[=======>] - ETA: 3:41 - loss: 0.3229 - acc: 0.8762
1	-	[========>] - ETA: 3:40 - loss: 0.3219 - acc: 0.8767
		[========>] - ETA: 3:38 - loss: 0.3199 - acc: 0.8779
		[========>] - ETA: 3:37 - loss: 0.3183 - acc: 0.8782
		[========>] - ETA: 3:36 - loss: 0.3172 - acc: 0.8786
		[========>] - ETA: 3:34 - loss: 0.3174 - acc: 0.8782
		[=======>] - ETA: 3:33 - loss: 0.3164 - acc: 0.8785
		[=======>] - ETA: 3:32 - loss: 0.3162 - acc: 0.8786
		[=======>] - ETA: 3:31 - loss: 0.3160 - acc: 0.8786
722	115/267	[=======>] - ETA: 3:29 - loss: 0.3152 - acc: 0.8795
		[=======>] - ETA: 3:28 - loss: 0.3163 - acc: 0.8790
		[========>] - ETA: 3:27 - loss: 0.3174 - acc: 0.8790
		[========>] - ETA: 3:26 - loss: 0.3159 - acc: 0.8796
		[========>] - ETA: 3:24 - loss: 0.3150 - acc: 0.8802
		[========>] - ETA: 3:23 - loss: 0.3140 - acc: 0.8805
		[========>] - ETA: 3:22 - loss: 0.3145 - acc: 0.8805
		[========>] - ETA: 3:20 - loss: 0.3144 - acc: 0.8806
		[=======>] - ETA: 3:19 - loss: 0.3160 - acc: 0.8800
		[=======>] - ETA: 3:18 - loss: 0.3148 - acc: 0.8803
732	125/267	[=======>] - ETA: 3:16 - loss: 0.3153 - acc: 0.8800
		[=======>] - ETA: 3:15 - loss: 0.3144 - acc: 0.8803
		[========>] - ETA: 3:14 - loss: 0.3140 - acc: 0.8804
		[========>] - ETA: 3:12 - loss: 0.3134 - acc: 0.8806
		[========>] - ETA: 3:11 - loss: 0.3132 - acc: 0.8805
		[=========>] - ETA: 3:10 - loss: 0.3135 - acc: 0.8805
		[========>] - ETA: 3:10 - t055: 0:3135 - acc: 0:8005
739	132/267	[========>] - ETA: 3:07 - loss: 0.3122 - acc: 0.8813

```
740 133/267 [========>....] - ETA: 3:06 - loss: 0.3115 - acc: 0.8817
741 134/267 [==========>....] - ETA: 3:05 - loss: 0.3117 - acc: 0.8816 742 135/267 [=========>....] - ETA: 3:03 - loss: 0.3112 - acc: 0.8818
777 170/267 [================>.....] - ETA: 2:16 - loss: 0.3174 - acc: 0.8787
791 184/267 [=============>.....] - ETA: 1:57 - loss: 0.3129 - acc: 0.8801
798 191/267 [=============>....] - ETA: 1:47 - loss: 0.3109 - acc: 0.8810
805 198/267 [==============>.....] - ETA: 1:37 - loss: 0.3128 - acc: 0.8808
```

```
823 216/267 [===============>.....] - ETA: 1:12 - loss: 0.3094 - acc: 0.8831
- val_acc: 0.8193
875 Epoch 4/19
876
 1/267 [.....] - ETA: 2:03 - loss: 0.3015 - acc: 0.8667
877
 878
879
 880
881
 6/267 [.....] - ETA: 1:57 - loss: 0.2645 - acc: 0.8861
7/267 [.....] - ETA: 1:57 - loss: 0.2593 - acc: 0.8905
882
883
884
885
886
887 11/267 [>.....] - ETA: 1:55 - loss: 0.2701 - acc: 0.8909
888 12/267 [>.....] - ETA: 1:55 - loss: 0.2693 - acc: 0.8917
889 13/267 [>.....] - ETA: 1:54 - loss: 0.2708 - acc: 0.8936
890 14/267 [>.....] - ETA: 1:54 - loss: 0.2652 - acc: 0.8952
891 15/267 [>.....] - ETA: 1:53 - loss: 0.2606 - acc: 0.8956
892 16/267 [>.....] - ETA: 1:53 - loss: 0.2587 - acc: 0.8969
```

File -	Run train_	network_generators
893	17/267	[>] - ETA: 1:53 - loss: 0.2564 - acc: 0.8990
894		[=>] - ETA: 1:59 - loss: 0.2503 - acc: 0.9019
895	,	[=>] - ETA: 1:39 - t055: 0.2505 - acc: 0.9019
896		[=>] - ETA: 2:11 - loss: 0.2432 - acc: 0.9050
897	21/267	[=>] - ETA: 2:17 - loss: 0.2443 - acc: 0.9048
898	22/267	[=>] - ETA: 2:20 - loss: 0.2396 - acc: 0.9068
899		[=>] - ETA: 2:24 - loss: 0.2410 - acc: 0.9058
900		[=>] - ETA: 2:28 - loss: 0.2404 - acc: 0.9062
901		[=>] - ETA: 2:31 - loss: 0.2381 - acc: 0.9087
902	-	[=>] - ETA: 2:33 - loss: 0.2326 - acc: 0.9115
903	27/267	[==>] - ETA: 2:36 - loss: 0.2386 - acc: 0.9099
904	28/267	[==>] - ETA: 2:39 - loss: 0.2413 - acc: 0.9101
905	29/267	[==>] - ETA: 2:41 - loss: 0.2405 - acc: 0.9103
906		[==>] - ETA: 2:44 - loss: 0.2436 - acc: 0.9094
907		[==>] - ETA: 2:46 - loss: 0.2463 - acc: 0.9081
908		[==>] - ETA: 2:48 - loss: 0.2424 - acc: 0.9094
909	33/267	[==>] - ETA: 2:49 - loss: 0.2408 - acc: 0.9096
910	34/267	[==>] - ETA: 2:50 - loss: 0.2393 - acc: 0.9113
911	35/267	[==>] - ETA: 2:52 - loss: 0.2374 - acc: 0.9124
912		[===>] - ETA: 2:53 - loss: 0.2359 - acc: 0.9130
913		[===>] - ETA: 2:54 - loss: 0.2343 - acc: 0.9135
914		[===>] - ETA: 2:55 - loss: 0.2323 - acc: 0.9149
915		[===>] - ETA: 2:55 - loss: 0.2343 - acc: 0.9132
916		[===>] - ETA: 2:56 - loss: 0.2319 - acc: 0.9146
917		[===>] - ETA: 2:57 - loss: 0.2320 - acc: 0.9138
918		[===>] - ETA: 2:57 - loss: 0.2345 - acc: 0.9131
919		[===>] - ETA: 2:58 - loss: 0.2321 - acc: 0.9143
920		[===>] - ETA: 2:38 - t055: 0.2321 - acc: 0.9143
921		[====>] - ETA: 2:58 - loss: 0.2281 - acc: 0.9159
1		[====>] - ETA: 2:59 - loss: 0.2272 - acc: 0.9170
923	47/267	[====>] - ETA: 2:59 - loss: 0.2273 - acc: 0.9170
924	48/267	[====>] - ETA: 2:58 - loss: 0.2275 - acc: 0.9163
925	49/267	[====>] - ETA: 2:59 - loss: 0.2279 - acc: 0.9160
926		[====>] - ETA: 2:59 - loss: 0.2273 - acc: 0.9163
927		[====>] - ETA: 2:59 - loss: 0.2274 - acc: 0.9167
928		[====>] - ETA: 2:59 - loss: 0.2278 - acc: 0.9163
929		[====>] - ETA: 2:59 - loss: 0.2282 - acc: 0.9164
930	54/267	[====>] - ETA: 2:59 - loss: 0.2286 - acc: 0.9164
931	55/267	[====>] - ETA: 2:59 - loss: 0.2283 - acc: 0.9173
932		[====>] - ETA: 2:59 - loss: 0.2268 - acc: 0.9182
933		[=====>] - ETA: 2:58 - loss: 0.2269 - acc: 0.9181
934		[====>] - ETA: 2:57 - loss: 0.2264 - acc: 0.9181
935		[====>] - ETA: 2:57 - loss: 0.2246 - acc: 0.9186
936		[=====>] - ETA: 2:57 - loss: 0.2231 - acc: 0.9192
937	61/267	[====>] - ETA: 2:57 - loss: 0.2218 - acc: 0.9197
938	62/267	[====>] - ETA: 2:57 - loss: 0.2205 - acc: 0.9204
939	63/267	[=====>] - ETA: 2:57 - loss: 0.2209 - acc: 0.9209
940		[=====>] - ETA: 2:57 - loss: 0.2212 - acc: 0.9206
941		[=====>] - ETA: 2:56 - loss: 0.2228 - acc: 0.9197
942	_	[=====>] - ETA: 2:56 - loss: 0.2214 - acc: 0.9202
943		[=====>] - ETA: 2:55 - loss: 0.2209 - acc: 0.9201
944		[=====>] - ETA: 2:55 - loss: 0.2204 - acc: 0.9196
945		[=====>] - ETA: 2:54 - loss: 0.2213 - acc: 0.9188
946	70/267	[=====>] - ETA: 2:53 - loss: 0.2203 - acc: 0.9190
947		[=====>] - ETA: 2:53 - loss: 0.2198 - acc: 0.9190
948		[======>] - ETA: 2:53 - loss: 0.2202 - acc: 0.9190
949		[======>] - ETA: 2:52 - loss: 0.2190 - acc: 0.9196
950		[======>] - ETA: 2:52 - loss: 0.2188 - acc: 0.9198
951		[======>] - ETA: 2:51 - loss: 0.2201 - acc: 0.9198
952		[======>] - ETA: 2:51 - loss: 0.2223 - acc: 0.9189
953	77/267	[======>] - ETA: 2:50 - loss: 0.2243 - acc: 0.9180
954	78/267	[======>] - ETA: 2:50 - loss: 0.2257 - acc: 0.9175
955		[======>] - ETA: 2:49 - loss: 0.2268 - acc: 0.9173
956		[======>] - ETA: 2:48 - loss: 0.2267 - acc: 0.9173
957		[======>] - ETA: 2:48 - loss: 0.2254 - acc: 0.9173
958		[======>] - ETA: 2:48 - loss: 0.2251 - acc: 0.9183
959		[======>] - ETA: 2:47 - loss: 0.2278 - acc: 0.9169
960		[======>] - ETA: 2:47 - loss: 0.2298 - acc: 0.9161
961		[======>] - ETA: 2:46 - loss: 0.2291 - acc: 0.9165
962		[======>] - ETA: 2:46 - loss: 0.2304 - acc: 0.9159
963		[======>] - ETA: 2:45 - loss: 0.2301 - acc: 0.9159
964		[======>] - ETA: 2:44 - loss: 0.2304 - acc: 0.9155
965		[======>] - ETA: 2:43 - loss: 0.2311 - acc: 0.9150
966		[======>] - ETA: 2:43 - loss: 0.2304 - acc: 0.9156
967	91/267	[=======>] - ETA: 2:42 - loss: 0.2322 - acc: 0.9148
968		[=======>] - ETA: 2:42 - loss: 0.2322 - acc: 0.9145
969		[=======>] - ETA: 2:41 - loss: 0.2312 - acc: 0.9151
1,0,	-3,201	

File - F	Run train_n	etwork_generators				
970	94/267	[======>]	- FTA:	2·Ц0 —	1055.	0 2319 - acc: 0 9145
071	05/267	[======>]	_ ETA:	2.70	1055.	0.2317 acc. 0.3140
9/1	95/26/	[	- EIA.	2.39 -	1055.	0.2303 - acc. 0.9132
		[======>]				
973	97/267	[======>]	- ETA:	2:38 -	loss:	0.2373 - acc: 0.9127
		[=======>]				
		[=======>]				
		[======>]				
977	101/267	[======>]	- ETA:	2:35 -	loss:	0.2363 - acc: 0.9130
978	102/267	[======>]	- ETA:	2:34 -	loss:	0.2378 - acc: 0.9127
		[======>]				
000	100/207	Γ	ETA.	2.33	1	0.2360 acc. 0.9129
		[======>]				
		[======>]				
		[======>]				
983	107/267	[=======>]	- ETA:	2:31 -	loss:	0.2358 - acc: 0.9140
		[=======>]				
		[=======>]				
		[======>]				
		[=======>]				
988	112/267	[=======>]	- ETA:	2:27 -	loss:	0.2350 - acc: 0.9137
		[======>]				
		[========>]				
		[=======>]				
		[=======>]				
993	117/267	[=======>]	- ETA:	2:24 -	loss:	0.2322 - acc: 0.9150
		[=======>]				
		[========>]				
		[=======>]				
		[=======>]				
		[=======>]				
999	123/267	[=======>]	- ETA:	2:19 -	loss:	0.2294 - acc: 0.9161
1000	124/267	[=======>]	- ETA:	2:18 -	loss:	0.2288 - acc: 0.9161
		[=======>]				
		[=======>]				
		[========>]				
		[========>]				
		[======>]				
1006	130/267	[=======>]	- ETA:	2:13 -	loss:	0.2290 - acc: 0.9156
1007	131/267	[=======>]	- ETA:	2:12 -	loss:	0.2293 - acc: 0.9153
1008	132/267	[======================================	- ETA:	2:12 -	loss:	0.2303 - acc: 0.9152
1009	133/267	[=======>]	- FTA:	2:11 -	1055:	0.2301 - acc: 0.9150
		[======================================				
		[=========>]				
		[======================================				
1012	130/20/	[	TTA.	2.00 -	1055.	0.2303 - acc. 0.9140
1013	13//26/	[=======>]	- EIA:	2:07 -	1055:	0.2314 - acc: 0.9148
1014	138/267	[======> <u>]</u>	- EIA:	2:06 -	LOSS:	0.2304 - acc: 0.9153
		[=======>]				
1016	140/267	[======>]	- ETA:	2:04 -	loss:	0.2307 - acc: 0.9155
1017	141/267	[=======>]	- ETA:	2:04 -	loss:	0.2306 - acc: 0.9156
1018	142/267	[=======>]	- ETA:	2:03 -	loss:	0.2307 - acc: 0.9156
1019	143/267	[=======>]	- ETA:	2:02 -	loss:	0.2309 - acc: 0.9155
		[======================================				
1021	143/207	[======================================	- EIA:	2.00 -	1055:	0.2300 - dCC. 0.9133
		[======> <u>]</u>				
		[=======>]				
1024	148/267	[=======>]	- ETA:	1:57 -	loss:	0.2304 - acc: 0.9157
		[========>]				
		[======================================				
		[======================================				
		[======>]				
		[======>]				
		[======>]				
1031	155/267	[=======>]	- ETA:	1:50 -	loss:	0.2302 - acc: 0.9167
		[========>]				
		[=======>]				
		[======================================				
		[======================================				
1036	TOO/ 50./	[========>]	- LIA:	1:47 -	1055:	U. 2289 - ACC: U.9173
		[======>]				
		[======>]				
1039	163/267	[======================================	- ETA:	1:44 -	loss:	0.2289 - acc: 0.9174
		[======================================				
1041	165/267	[======================================	- ETA:	1:42 -	loss	0.2275 - acc: 0.9181
1042	166/267	[======================================	- FT∆.	1·41 -	1055.	0 2268 - acc: 0 9185
		[======================================				
		[======================================				
		[======================================				
1046	170/267	[=====>]	- FLY:	T:37 -	LOSS:	U.2263 - acc: U.9187

```
1047 171/267 [==============>....] - ETA: 1:36 - loss: 0.2257 - acc: 0.9189
1091 215/267 [===================>.....] - ETA: 53s - loss: 0.2201 - acc: 0.9212
```

```
8004 - val_acc: 0.6146
1144 Epoch 5/19
1145
1146
     1/267 [.....] - ETA: 2:02 - loss: 0.2215 - acc: 0.9167
    1147
1148
     4/267 [.....] - ETA: 1:58 - loss: 0.2680 - acc: 0.8958
1149
    1150
1151
1152
     8/267 [......] - ETA: 1:58 - loss: 0.2708 - acc: 0.9021
1153
    1154
1155
    11/267 [>.....] - ETA: 1:56 - loss: 0.2704 - acc: 0.8970
1156
    1157
1158
1159
    15/267 [>.....] - ETA: 1:53 - loss: 0.2536 - acc: 0.9078
1160
22/267 [=>.....] - ETA: 2:44 - loss: 0.2364 - acc: 0.9152
1167
    23/267 [=>.....] - ETA: 2:49 - loss: 0.2352 - acc: 0.9145
24/267 [=>.....] - ETA: 2:54 - loss: 0.2322 - acc: 0.9167
1168
1169
    25/267 [=>......] - ETA: 2:59 - loss: 0.2275 - acc: 0.9193
26/267 [=>......] - ETA: 3:03 - loss: 0.2268 - acc: 0.9192
27/267 [==>.....] - ETA: 3:07 - loss: 0.2334 - acc: 0.9160
28/267 [==>.....] - ETA: 3:10 - loss: 0.2285 - acc: 0.9179
1170
1171
1172
1173
1174
    29/267 [==>.....] - ETA: 3:13 - loss: 0.2262 - acc: 0.9190
    30/267 [==>....] - ETA: 3:15 - loss: 0.2238 - acc: 0.9194
31/267 [==>....] - ETA: 3:18 - loss: 0.2261 - acc: 0.9188
1175
1176
    32/267 [==>....] - ETA: 3:19 - loss: 0.2278 - acc: 0.9172
33/267 [==>....] - ETA: 3:21 - loss: 0.2253 - acc: 0.9177
1177
1178
    34/267 [==>....] - ETA: 3:23 - loss: 0.2260 - acc: 0.9181
35/267 [==>....] - ETA: 3:24 - loss: 0.2280 - acc: 0.9167
1179
1180
1181
    36/267 [===>.....] - ETA: 3:26 - loss: 0.2276 - acc: 0.9171
    37/267 [===>....] - ETA: 3:27 - loss: 0.2285 - acc: 0.9171
38/267 [===>.....] - ETA: 3:29 - loss: 0.2267 - acc: 0.9180
1182
1183
    39/267 [===>......] - ETA: 3:30 - loss: 0.2260 - acc: 0.9175
40/267 [===>......] - ETA: 3:31 - loss: 0.2255 - acc: 0.9175
41/267 [===>......] - ETA: 3:32 - loss: 0.2263 - acc: 0.9163
1184
1185
1186
    42/267 [===>.....] - ETA: 3:33 - loss: 0.2275 - acc: 0.9155
1187
1188
    43/267 [===>.....] - ETA: 3:34 - loss: 0.2255 - acc: 0.9163
    44/267 [===>....] - ETA: 3:34 - loss: 0.2246 - acc: 0.9159
45/267 [===>....] - ETA: 3:35 - loss: 0.2233 - acc: 0.9159
1189
1190

      46/267 [====>
      ] - ETA: 3:37 - loss: 0.2201 - acc: 0.9174

      47/267 [====>
      ] - ETA: 3:37 - loss: 0.2226 - acc: 0.9160

      48/267 [===>
      ] - ETA: 3:38 - loss: 0.2210 - acc: 0.9167

1191
1192
1193
1194
    49/267 [====>.....] - ETA: 3:39 - loss: 0.2229 - acc: 0.9167
    50/267 [====>.....] - ETA: 3:41 - loss: 0.2222 - acc: 0.9170
1195
    51/267 [====>....] - ETA: 3:41 - loss: 0.2221 - acc: 0.9173
52/267 [====>....] - ETA: 3:41 - loss: 0.2208 - acc: 0.9176
1196
1197
    53/267 [====>.....] - ETA: 3:41 - loss: 0.2205 - acc: 0.9173
1198
1199
    54/267 [====>.....] - ETA: 3:41 - loss: 0.2211 - acc: 0.9167
```

File - F	Run train_n	etwork_generators				
1200	55/267	[====>] -	· FTA ·	3 ∙ Д1 –	1055	0 2192 - acc: 0 9176
		[====>] -				
		[====>] -				
1203	58/267	[====>] -	· ETA:	3:41 -	loss:	0.2171 - acc: 0.9190
1204	59/267	[====>] -	· ETA:	3:41 -	loss:	0.2210 - acc: 0.9186
		[====>] -				
1206		[====>] -				
		[====>] -				
1208		[=====>] -				
1209	64/267	[=====>] -	· ETA:	3:40 -	loss:	0.2162 - acc: 0.9198
1210	65/267	[=====>] -	ETA:	3:40 -	loss:	0.2147 - acc: 0.9203
		[=====>] -				
		[=====>] -				
		[=====>] -				
		[=====>] -				
1215	70/267	[=====>] -	· ETA:	3:37 -	loss:	0.2151 - acc: 0.9212
1216	71/267	[=====>] -	· ETA:	3:36 -	loss:	0.2148 - acc: 0.9211
1217		[======>] -				
1218		[======>] -				
		[======>] -				
1220	-	[=====>] -				
1221	76/267	[======>] -	ETA:	3:34 -	loss:	0.2125 - acc: 0.9219
1222		[======>] -				
1223		[======>] -				
		[======>] -				
		[======>] -				
		[======>] -				
		[======>] -				
1228	83/267	[======>] -	ETA:	3:30 -	loss:	0.2118 - acc: 0.9229
1229	84/267	[======>] -	ETA:	3:30 -	loss:	0.2110 - acc: 0.9230
		[======>] -				
		[======>] -				
		[======>] -				
		[======>] -				
		[======>] -				
1235		[======>] -				
1236		[======>] -				
1237	92/267	[======>] -	ETA:	3:24 -	loss:	0.2096 - acc: 0.9237
1238		[======>] -				
		[======>] -				
		[======>] -				
1241	96/26/	[======>] -	EIA:	3:21 -	1055:	0.2061 - acc: 0.9252
		[======>] -				
		[=======>] -				
1244	99/267	[=======>] -	· ETA:	3:19 -	loss:	0.2038 - acc: 0.9263
1245	100/267	[=======>] -	· ETA:	3:18 -	loss:	0.2034 - acc: 0.9268
1246	101/267	[=======>] -	ETA:	3:17 -	loss:	0.2044 - acc: 0.9264
		[=======>] -				
		[=======>] -				
		[======================================				
		[======================================				
		[=======>] -				
		[======>] -				
		[=======>] -				
1254	109/267	[======================================	ETA:	3:10 -	loss:	0.2037 - acc: 0.9272
		[=======>] -				
		[=======>] -				
		[======================================				
		[=======>] -				
		[======================================				
		[======================================				
		[======================================				
		[=======>] -				
		[========>] -				
1264	119/267	[======================================	ETA:	3:00 -	loss:	0.1987 - acc: 0.9298
		[========>] -				
		[========>] -				
1267	122/267	[======================================	FTA.	2:57 -	1055	0.1999 - acc: 0 9295
		[======================================				
		[======================================				
		[======================================				
1271	126/267	[======================================	ETA:	2:53 -	LOSS:	0.1993 - acc: 0.9295
		[======================================				
1273	128/267	[======================================	ETA:	2:51 -	loss:	0.1993 - acc: 0.9297
1274	129/267	[======================================	ETA:	2:50 -	loss:	0.1989 - acc: 0.9298
1275	130/267	[======================================	ETA:	2:49 -	loss:	0.1991 - acc: 0.9296
		[======================================				
	,,					

```
1277 132/267 [=========>.....] - ETA: 2:47 - loss: 0.1979 - acc: 0.9303
1278 133/267 [=========>.....] - ETA: 2:45 - loss: 0.1982 - acc: 0.9299
1280 135/267 [=========>.....] - ETA: 2:43 - loss: 0.1990 - acc: 0.9298
1283 138/267 [=========>.....] - ETA: 2:40 - loss: 0.1986 - acc: 0.9302
1300 155/267 [=========>....] - ETA: 2:21 - loss: 0.1963 - acc: 0.9302
1303 158/267 [=========>......] - ETA: 2:18 - loss: 0.1953 - acc: 0.9305
1307 162/267 [==============>.....] - ETA: 2:13 - loss: 0.1966 - acc: 0.9306
1310 165/267 [==========>....] - ETA: 2:10 - loss: 0.1962 - acc: 0.9305
1314 169/267 [==========>.....] - ETA: 2:05 - loss: 0.1954 - acc: 0.9312
1321 176/267 [===========>....] - ETA: 1:57 - loss: 0.1937 - acc: 0.9319
1328 183/267 [============>.....] - ETA: 1:48 - loss: 0.1917 - acc: 0.9324
1335 190/267 [===============>......] - ETA: 1:40 - loss: 0.1895 - acc: 0.9330
1341 196/267 [===============>.....] - ETA: 1:32 - loss: 0.1892 - acc: 0.9329
```

```
4136 - val_acc: 0.6471
1413 Epoch 6/19
1414
1415
 1/267 [.....] - ETA: 2:03 - loss: 0.0562 - acc: 1.0000
 2/267 [.....] - ETA: 1:59 - loss: 0.0623 - acc: 0.9833
1416
 3/267 [.....] - ETA: 1:58 - loss: 0.0794 - acc: 0.9778
1417
1418
 4/267 [...... 0.1120 - acc: 0.9625
 5/267 [.....] - ETA: 1:57 - loss: 0.1095 - acc: 0.9633
6/267 [.....] - ETA: 1:57 - loss: 0.1084 - acc: 0.9639
1419
1420
 1421
1422
1423
1424
 10/267 [>.....] - ETA: 1:54 - loss: 0.1209 - acc: 0.9550
 11/267 [>.....] - ETA: 1:54 - loss: 0.1173 - acc: 0.9561
1425
 12/267 [>.....] - ETA: 1:54 - loss: 0.1140 - acc: 0.9569
13/267 [>......] - ETA: 1:53 - loss: 0.1120 - acc: 0.9590
1426
1427
 14/267 [>.....] - ETA: 1:52 - loss: 0.1156 - acc: 0.9571
1428
15/267 [>.....] - ETA: 2:01 - loss: 0.1216 - acc: 0.9556
1429
```

File - R	un train_n	ietwork_generators					
1430	16/267	[>] -	FTΔ·	2.16 -	1055.	0 1233 - acc: 0 9563	
		[>] -					
		[=>] -					
1433	19/267	[=>] -	ETA:	2:47 -	loss:	0.1289 - acc: 0.9544	
1434	20/267	[=>] -	ETA:	2:55 -	loss:	0.1305 - acc: 0.9550	
		[=>] -					
		[=>] -					
		[=>] -					
	23/20/	[-/]	EIA.	3.13 -	1055.	0.1431 - acc. 0.9522	
1438		[=>] -					
1439	25/267	[=>] -	ETA:	3:24 -	loss:	0.1489 - acc: 0.9493	
1440	26/267	[=>] -	ETA:	3:28 -	loss:	0.1539 - acc: 0.9468	
1441	27/267	[==>] -	ETA:	3:33 -	loss:	0.1508 - acc: 0.9481	
		[==>] -					
1443		[==>] -					
		[==>] -					
1445	31/267	[==>] -	ETA:	3:47 -	loss:	0.1516 - acc: 0.9484	
1446	32/267	[==>] -	ETA:	3:49 -	loss:	0.1570 - acc: 0.9479	
1447	33/267	[==>] -	ETA:	3:51 -	loss:	0.1588 - acc: 0.9480	
		[==>] -					
		[==>] -					
1	-	[===>] -					
1451	37/267	[===>] -	ETA:	3:57 -	loss:	0.1635 - acc: 0.9459	
		[===>] -					
		[===>] -					
		[===>] -					
1	-	[===>] -					
		[===>] -					
1457	43/267	[===>] -	ETA:	4:04 -	loss:	0.1618 - acc: 0.9457	
		[===>] -					
		[====>] -					
1460		[===>] -					
1461		[====>] -					
1462	48/267	[====>] -	EIA:	4:16 -	LOSS:	0.1620 - acc: 0.9458	
		[====>] -					
1464	50/267	[====>] -	ETA:	4:17 -	loss:	0.1587 - acc: 0.9467	
1465	51/267	[====>] -	ETA:	4:16 -	loss:	0.1573 - acc: 0.9467	
1466	52/267	[====>] -	ETA:	4:16 -	loss:	0.1571 - acc: 0.9468	
		[====>] -					
		[====>] -					
1468							
1469		[====>] -					
1470		[====>] -					
1471		[====>] -					
1472	58/267	[====>] -	ETA:	4:14 -	loss:	0.1539 - acc: 0.9489	
1473		[====>] -					
1474		[====>] -					
1475		[====>] -					
_		[====>] -					
		[=====>] -					
1478		[=====>] -					
1479		[=====>] -					
1480	66/267	[=====>] -	ETA:	4:10 -	loss:	0.1521 - acc: 0.9492	
1481		[=====>] -					
1482		[=====>] -					
1483		[=====>] -					
1484		[=====>] -					
1485		[=====>] -					
1486		[=====>] -					
1487	73/267	[=====>] -	ETA:	4:06 -	loss:	0.1500 - acc: 0.9489	
1488	74/267	[=====>] -	ETA:	4:05 -	loss:	0.1502 - acc: 0.9489	
1489		[======>] -					
1490		[=====>] -					
1491							
	70/207	[======>] -	EIA:	4.02 -	1055:	0.1514 - acc. 0.7403	
1492	10/26/	[======>] -	EIA:	4.01 -	LOSS:	U.1314 - ACC: U.9481	
1493		[=====>] -					
1494		[======>] -					
1495	81/267	[======>] -	ETA:	3:58 -	loss:	0.1519 - acc: 0.9481	
1496		[======>] -					
	83/267	[======>] -	FTA.	3:57 -	1055.	0.1539 - acc: 0.9476	
1498	8U /267	[======>] -	ETV.	3.56 -	1055.	0.1507 - acc: 0.0470	
1499		[======>] -					
1500		[======>] -					
1501	87/267	[======>] -	ETA:	3:53 -	Loss:	0.1557 - acc: 0.9467	
1502	88/267	[======>] -	ETA:	3:52 -	loss:	0.1562 - acc: 0.9468	
1503		[======>] -					
1504		[======>] -					
1505		[=======>] -					
1506		[======>] -					
1300	12/201		LIA.	J.40 -	.033.	0.10/3 acc. 0.9400	

File - F	Run train_ne	etwork_generators								
1507	93/267	[======>]	_	FTA:	3 · 47	_	1055.	0 1576 - acc	· 0 91	166
		[======>]								
	-	[======>]								
1510	96/267	[======>]	_	ETA:	3:44	-	loss:	0.1596 - acc	: 0.94	160
		[======>]								
		[=======>]								
		[======>]								
1514	100/267	[======>]	_	ETA:	3:39	-	loss:	0.1623 - acc	: 0.94	<del>1</del> 57
1515	101/267	[======>]	_	FTA:	3:38	_	1055:	0.1622 - acc	: 0.94	157
		[=======>]								
		[======>]								
		[=======>]								
1519	105/267	[======>]	_	ETA:	3:33	-	loss:	0.1605 - acc	: 0.94	<del>1</del> 62
1520	106/267	[======>]	_	FTA:	3:32	_	1055:	0.1617 - acc	: 0.94	159
		[========>]								
		[=======>]								
1523	109/267	[======>]	_	ETA:	3:28	-	loss:	0.1626 - acc	: 0.94	<del>1</del> 63
1524	110/267	[======>]	_	ETA:	3:27	-	loss:	0.1622 - acc	: 0.94	164
1525	111/267	[=======>]	_	ETA:	3:26	_	loss:	0.1627 - acc	: 0.94	<del>1</del> 61
		[========>]								
		[=======>]								
1528	114/267	[=======>]	_	ETA:	3:23	-	LOSS:	0.1608 - acc	: 0.94	100
		[======>]								
		[=======>]								
		[========>]								
		[=======>]								
		[=======>]								
1534	120/267	[========>]	_	ETA:	3:16	-	loss:	0.1594 - acc	: 0.94	<del>1</del> 65
		[=======>]								
		[========>]								
1527	122/267	[=========>]	_	ETV.	3.13	_	1055.	0.1502 - 300	. 0.2	167
1538	124/267	[=======>]	_	EIA:	3:11	-	LOSS:	0.1587 - acc	: 0.94	1.70
		[======>]								
1540	126/267	[=======>]	_	ETA:	3:09	-	loss:	0.1600 - acc	: 0.94	164
1541	127/267	[=======>]	_	ETA:	3:08	-	loss:	0.1602 - acc	: 0.94	<del>l</del> 61
1542	128/267	[=======>]	_	ETA:	3:06	_	loss:	0.1600 - acc	: 0.94	160
		[=========>]								
15///	120/267	[=========>]	_	ETA.	2.00	_	1055.	0.1602 - 200		156
		[======================================								
		[=======>]								
		[=======>]								
1548	134/267	[========>]	_	ETA:	2:59	-	loss:	0.1612 - acc	: 0.94	<del>1</del> 63
1549	135/267	[======================================	_	ETA:	2:58	-	loss:	0.1604 - acc	: 0.94	<del>1</del> 65
1550	136/267	[========>]	_	ETA:	2:57	_	loss:	0.1610 - acc	: 0.94	162
		[=========>]								
		[=========>]								
		[========>]								
1555	139/207	[		ETA.	2.54		1055.	0.1009 - acc	. 0.94	102
1554	140/267	[======>]	_	EIA:	2:53	-	1055:	0.1605 - acc	: 0.94	164
		[=======>]								
		[========>]								
1557	143/267	[======================================	_	ETA:	2:49	-	loss:	0.1595 - acc	: 0.94	<del>1</del> 70
		[======================================								
1550	145/267	[=========>]	_	FTA.	2.116	_	1055.	0 1598 - 300	. 6 0	166
		[========>]								
		[=======>]								
		[=======>]								
1563	149/267	[=======>]	_	ETA:	2:41	-	loss:	0.1602 - acc	: 0.94	<del>1</del> 63
		[======================================								
		[======================================								
		[======================================								
		[======================================								
1568	154/267	[======================================	_	ETA:	2:34	-	loss:	0.1603 - acc	: 0.94	160
		[========>]								
		[======================================								
		[======================================								
		[======================================								
15/3	T2A\ 70.\	[======>]	_	LIA:	2:28	_	LUSS:	u.1580 - acc	. ७.५ <sup>८</sup>	<del>1</del> 00
		[======>]								
		[======>]								
1576	162/267	[=======>]	_	ETA:	2:24	-	loss:	0.1575 - acc	: 0.94	<del>!</del> 71
		[======================================								
1578	164/267	[======================================	_	ETA:	2:21	_	loss:	0.1580 - acc	: 0.94	<del>1</del> 67
1570	165/267	[======================================	_	FTA.	2.20	_	1055.	0 1586 - 200	. 6 01	165
		[======================================								
		[======================================								
		[======================================								
1283	169/267	[======>]	-	LIA:	2:14	-	LOSS:	⊎.1569 - acc	: 0.94	<del>1</del> 71

```
1584 170/267 [==========>....] - ETA: 2:13 - loss: 0.1564 - acc: 0.9474
```

```
2403 - val_acc: 0.9182
1682 Epoch 7/19
1683
    1/267 [............] - ETA: 2:04 - loss: 0.2675 - acc: 0.9167 2/267 [............] - ETA: 2:01 - loss: 0.1831 - acc: 0.9500
1684
1685
     3/267 [.....] - ETA: 2:01 - loss: 0.1810 - acc: 0.9611
1686
     4/267 [...... 0.1541 - acc: 0.9667
1687
    5/267 [.....] - ETA: 2:00 - loss: 0.1606 - acc: 0.9567
6/267 [.....] - ETA: 1:59 - loss: 0.1567 - acc: 0.9528
1688
1689
     7/267 [.....] - ETA: 1:57 - loss: 0.1532 - acc: 0.9524
1690
    1691
1692
    10/267 [>.....] - ETA: 1:56 - loss: 0.1504 - acc: 0.9517
1693
    1694
1695
1696
    14/267 [>.....] - ETA: 1:54 - loss: 0.1629 - acc: 0.9500
1697
1704
    21/267 [=>.....] - ETA: 2:15 - loss: 0.1700 - acc: 0.9437
    22/267 [=>......] - ETA: 2:19 - loss: 0.1713 - acc: 0.9439
23/267 [=>......] - ETA: 2:23 - loss: 0.1715 - acc: 0.9428
1705
1706
    24/267 [=>.....] - ETA: 2:26 - loss: 0.1723 - acc: 0.9417 25/267 [=>......] - ETA: 2:28 - loss: 0.1729 - acc: 0.9400
1707
1708
    26/267 [=>....] - ETA: 2:31 - loss: 0.1720 - acc: 0.9410
27/267 [==>....] - ETA: 2:33 - loss: 0.1712 - acc: 0.9414
1709
1710
1711
    28/267 [==>.....] - ETA: 2:35 - loss: 0.1685 - acc: 0.9423
    29/267 [==>....] - ETA: 2:37 - loss: 0.1694 - acc: 0.9402
30/267 [==>....] - ETA: 2:39 - loss: 0.1720 - acc: 0.9400
1712
1713
    31/267 [==>.....] - ETA: 2:41 - loss: 0.1725 - acc: 0.9398
32/267 [==>.....] - ETA: 2:43 - loss: 0.1723 - acc: 0.9391
1714
1715
    33/267 [==>....] - ETA: 2:44 - loss: 0.1788 - acc: 0.9374
34/267 [==>....] - ETA: 2:46 - loss: 0.1749 - acc: 0.9392
1716
1717
1718
    35/267 [==>.....] - ETA: 2:47 - loss: 0.1762 - acc: 0.9390
    36/267 [===>....] - ETA: 2:48 - loss: 0.1745 - acc: 0.9389
37/267 [===>....] - ETA: 2:49 - loss: 0.1738 - acc: 0.9387
1719
1720
    38/267 [===>.....] - ETA: 2:50 - loss: 0.1711 - acc: 0.9395
1721
    39/267 [===>.....] - ETA: 2:51 - loss: 0.1698 - acc: 0.9406
40/267 [===>.....] - ETA: 2:52 - loss: 0.1678 - acc: 0.9408
1722
1723
    41/267 [===>.....] - ETA: 2:52 - loss: 0.1672 - acc: 0.9407
1724
    42/267 [===>.....] - ETA: 2:53 - loss: 0.1662 - acc: 0.9409
1725
    43/267 [===>....] - ETA: 2:53 - loss: 0.1651 - acc: 0.9411
44/267 [===>....] - ETA: 2:53 - loss: 0.1638 - acc: 0.9420
1726
1727
    45/267 [====>....] - ETA: 2:53 - loss: 0.1633 - acc: 0.9422
1728
    46/267 [====> ... ] - ETA: 2:53 - loss: 0.1610 - acc: 0.9431
47/267 [====> ... ] - ETA: 2:54 - loss: 0.1600 - acc: 0.9440
1729
1730
1731
    48/267 [====>.....] - ETA: 2:54 - loss: 0.1592 - acc: 0.9444
    49/267 [====>.....] - ETA: 2:53 - loss: 0.1578 - acc: 0.9446
1732
    50/267 [====>....] - ETA: 2:53 - loss: 0.1581 - acc: 0.9440
51/267 [====>....] - ETA: 2:53 - loss: 0.1581 - acc: 0.9441
1733
1734
    52/267 [====>.....] - ETA: 2:53 - loss: 0.1569 - acc: 0.9446
1735
1736
    53/267 [====>.....] - ETA: 2:53 - loss: 0.1575 - acc: 0.9437
```

File - F	tun train_n	etwork_generators									
1737	54/267	[====>]	_	FTΔ·	2 · 52	_	1055.	0 1570 - acc		0 9ДД1	
		[====>]									
1739		[====>]									
1740	57/267	[====>]	_	ETA:	2:53	_	loss:	0.1556 - acc	::	0.9450	
		[====>]									
		[====>]									
1743	60/267	[====>]	_	ETA:	2:52	_	loss:	0.1551 - acc	::	0.9444	
1744		[====>]									
1745		[====>]									
1746	63/267	[=====>]	-	ETA:	2:51	-	loss:	0.1518 - ac	::	0.9455	
1747	64/267	[=====>]	_	FTA:	2:50	_	loss:	0.1524 - acc	• •	0.9451	
		[=====>]									
1749		[=====>]									
1750	67/267	[=====>]	_	ETA:	2:49	_	loss:	0.1493 - acc	::	0.9463	
1751	68/267	[=====>]	_	FTΔ·	2.48	_	1000	0 1500 - 20		0.0458	
		[=====>]									
1753	70/267	[=====>]	-	ETA:	2:48	-	loss:	0.1499 - ac	::	0.9460	
1754	71/267	[=====>]	_	ETA:	2:47	_	loss:	0.1493 - acc	::	0.9460	
1755		[======>]									
1756		[=====>]									
1757	74/267	[======>]	-	ETA:	2:46	-	loss:	0.1499 - ac	::	0.9457	
1758		[=====>]									
1759		[=====>]									
1760		[=====>]									
1761	78/267	[======>]	_	ETA:	2:43	_	loss:	0.1488 - ac	::	0.9459	
		[======>]									
		[======>]									
1		[======>]									
1765	82/267	[======>]	-	ETA:	2:41	-	loss:	0.1491 - ac	::	0.9461	
		[======>]									
		[======>]									
1768	85/267	[======>]	-	ETA:	2:38	-	loss:	0.1488 - ac	::	0.9457	
1769	86/267	[======>]	_	ETA:	2:38	_	loss:	0.1490 - acc	::	0.9453	
		[======>]									
		[======>]									
1772	89/267	[======>]	-	ETA:	2:37	-	loss:	0.1470 - ac	::	0.9464	
1773	90/267	[======>]	_	ETA:	2:36	_	loss:	0.1482 - acc	::	0.9463	
		[======>]									
1775		[======>]									
1776	93/267	[======>]	-	ETA:	2:34	-	loss:	0.1467 - acc	::	0.9468	
1777	94/267	[======>]	_	ETA:	2:33	_	loss:	0.1462 - acc	::	0.9470	
1778		[======>]									
1779	96/267	[======>]	-	ETA:	2:31	-	loss:	0.1446 - ac	::	0.9476	
1780	97/267	[======>]	-	ETA:	2:30	-	loss:	0.1438 - ac	::	0.9479	
1781		[======>]									
1782		[=======>]									
		[======>]									
1784	101/267	[======>]	-	ETA:	2:28	-	loss:	0.1420 - ac	::	0.9488	
1785	102/267	[=======>]	_	ETA:	2:27	_	loss:	0.1413 - acc	::	0.9492	
1796	103/267	[=======>]	_	FTV.	2 · 25	_	1055.	0 1000 - 300		_ 0 0Д01	
		[======>]									
		[=======>]									
1789	106/267	[=======>]	_	ETA:	2:23	_	loss:	0.1445 - acc	::	0.9488	
		[========>]									
		[=======>]									
		[=======>]									
1793	110/267	[=======>]	_	ETA:	2:22	_	loss:	0.1490 - ac	::	0.9478	
		[=======>]									
		[========>]									
		[=======>]									
		[======>]									
1798	115/267	[=======>]	_	ETA:	2:18	_	loss:	0.1547 - acc	::	0.9461	
		[=======>]									
		[=======>]									
1801	118/267	[=======>]	-	ETA:	2:16	-	loss:	0.1565 - ac	::	0.9449	
1802	119/267	[=======>]	_	ETA:	2:16	_	loss:	0.1566 - ac	::	0.9451	
		[========>]									
		[=======>]									
1805	122/267	[=======>]	-	ETA:	2:13	-	loss:	0.1573 - ac	::	0.9448	
		[=======>]									
		[=======>]									
		[======>]									
1809	126/267	[=======>]	_	ETA:	2:11	_	loss:	0.1557 - ac	::	0.9454	
		[========>]									
		[========>]									
		[=======>]									
1813	130/267	[=======>]	-	ETA:	2:08	_	loss:	0.1539 - acc	::	0.9461	
		_									
						_			_		

```
1814 131/267 [=========>.....] - ETA: 2:07 - loss: 0.1537 - acc: 0.9461
1817 134/267 [=========>.....] - ETA: 2:04 - loss: 0.1532 - acc: 0.9463
1820 137/267 [=========>.....] - ETA: 2:02 - loss: 0.1517 - acc: 0.9467
1844 161/267 [=============>.....] - ETA: 1:41 - loss: 0.1474 - acc: 0.9482
1851 168/267 [==========>.....] - ETA: 1:36 - loss: 0.1479 - acc: 0.9478
1858 175/267 [===========>....] - ETA: 1:29 - loss: 0.1472 - acc: 0.9482
1865 182/267 [=============>.....] - ETA: 1:23 - loss: 0.1447 - acc: 0.9491
1872 189/267 [==============>.....] - ETA: 1:16 - loss: 0.1452 - acc: 0.9492
1878 195/267 [==========>.....] - ETA: 1:11 - loss: 0.1451 - acc: 0.9494
1879 196/267 [===============>......] - ETA: 1:10 - loss: 0.1448 - acc: 0.9495
```

```
2814 - val_acc: 0.9050
1951 Epoch 8/19
1952
 1/267 [.....] - ETA: 2:08 - loss: 0.0799 - acc: 0.9833
1953
 2/267 [.....] - ETA: 2:04 - loss: 0.0912 - acc: 0.9750
3/267 [.....] - ETA: 2:02 - loss: 0.0943 - acc: 0.9667
1954
1955
 1956
1957
 1958
1959
1960
1961
 9/267 [>.....] - ETA: 1:55 - loss: 0.1066 - acc: 0.9593
 10/267 [>.....] - ETA: 1:55 - loss: 0.1089 - acc: 0.9550
1962
 11/267 [>.....] - ETA: 1:54 - loss: 0.1052 - acc: 0.9561
12/267 [>.....] - ETA: 1:53 - loss: 0.0996 - acc: 0.9597
1963
1964
 13/267 [>.....] - ETA: 1:53 - loss: 0.0992 - acc: 0.9603
1965
14/267 [>......] - ETA: 2:03 - loss: 0.0950 - acc: 0.9619
1966
```

File - R	un train_n	ietwork_generators				
1967	15/267	[>] -	FTA.	2.15 -	1055.	0 0957 - acc: 0 9622
1						
		[>] -				
l l		[>] -				
1970	18/267	[=>] -	ETA:	2:49 -	loss:	0.0989 - acc: 0.9611
1971	19/267	[=>] -	ETA:	2:59 -	loss:	0.0979 - acc: 0.9614
		[=>] -				
1973		[=>] -				
1		[=>] -				
1975		[=>] -				
1976	24/267	[=>] -	ETA:	3:31 -	loss:	0.1317 - acc: 0.9563
1977	25/267	[=>] -	ETA:	3:35 -	loss:	0.1301 - acc: 0.9573
1978	26/267	[=>] -	FTA:	3:39 -	1055:	0.1344 - acc: 0.9545
1979		[==>] -				
1980		[==>] -				
		[==>] -				
1982		[==>] -				
1983	31/267	[==>] -	ETA:	3:54 -	loss:	0.1331 - acc: 0.9554
1984	32/267	[==>] -	ETA:	3:58 -	loss:	0.1366 - acc: 0.9536
		[==>] -				
		[==>] -				
l l		[==>] -				
1988		[===>] -				
1989		[===>] -				
1990	38/267	[===>] -	ETA:	4:07 -	loss:	0.1311 - acc: 0.9561
1991		[===>] -				
		[===>] -				
1993	-	[===>] -				
		[===>] -				
		[===>] -				
		[===>] -				
1997	45/267	[====>] -	ETA:	4:12 -	loss:	0.1282 - acc: 0.9567
1998	46/267	[====>] -	ETA:	4:14 -	loss:	0.1272 - acc: 0.9569
1999		[====>] -				
2000		[====>] -				
		[===>] -				
2001						
2002		[====>] -				
2003		[====>] -				
2004	52/267	[====>] -	ETA:	4:14 -	loss:	0.1280 - acc: 0.9561
2005		[====>] -				
2006		[====>] -				
2007		[====>] -				
2008	36/26/	[====>] -	EIA:	4:13 -	1055:	0.1242 - acc: 0.9580
2009		[====>] -				
2010		[====>] -				
2011	59/267	[====>] -	ETA:	4:14 -	loss:	0.1231 - acc: 0.9588
2012	60/267	[====>] -	ETA:	4:14 -	loss:	0.1241 - acc: 0.9589
2013	61/267	[====>] -	ETA:	4:19 -	loss:	0.1241 - acc: 0.9585
		[====>] -				
2015		[=====>] -				
2016		[=====>] -				
2017		[=====>] -				
2018		[=====>] -				
2019		[=====>] -				
2020	68/267	[=====>] -	ETA:	4:14 -	loss:	0.1256 - acc: 0.9571
2021		[=====>] -				
2022	-	[=====>] -				
2023		[=====>]-				
2023	72/267	[======>] -	FTA.	Д·12 —	1055.	0 1263 - acc: 0 9572
2025		[======>] -				
2026		[======>] -				
2027		[======>] -				
2028		[=====>] -				
2029		[=====>] -				
2030		[======>] -				
2031		[======>] -				
2031		[======>] -				
2033	o1/26/	[======>] -	EIA:	4.05 -	1055:	U.1200 - ACC: U.9574
2034		[======>] -				
2035		[======>] -				
2036	84/267	[======>] -	ETA:	4:02 -	loss:	0.1238 - acc: 0.9581
2037		[======>] -				
2038		[======>] -				
2039	87/267	[======>] -	FTA.	3.50 -	1055.	0 1239 - acc: 0 9582
2039						
		[======>] -				
2041		[======>] -				
2042		[======>] -				
2043	91/267	[======>] -	ETA:	3:55 -	loss:	0.1237 - acc: 0.9584

File - F	Run train_n	etwork_generators						
2044	92/267	[======>]	-	ETA:	3:54 -	-	loss:	0.1228 - acc: 0.9587
2045	93/267	[======>]	_	ETA:	3:53 -	-	loss:	0.1223 - acc: 0.9590
2046	94/267	[======>]	_	ETA:	3:51 -	_	loss:	0.1221 - acc: 0.9590
		[======>]						
		[======>]						
		[======>]						
		[=======>]						
		[=======>]						
		[=======>						
		[======>]						
		[======>]						
		[=======>]						
2056	104/267	[=======>]	_	ETA:	3:40 -	-	loss:	0.1240 - acc: 0.9587
2057	105/267	[======>]	_	ETA:	3:39 -	-	loss:	0.1239 - acc: 0.9586
2058	106/267	[=======>]	_	ETA:	3:37 -	-	loss:	0.1242 - acc: 0.9586
2059	107/267	[=======>]	_	ETA:	3:36 -	-	loss:	0.1236 - acc: 0.9589
		[======>]						
2061	109/267	[========>]	_	ETA:	3:34 -	_	loss:	0.1230 - acc: 0.9592
		[========>]						
		[========>]						
2064	112/267	[=======>]	_	FTA:	3.32	_	1055.	0.1202 acc. 0.5005 0.1202 acc. 0.5005
2000	11/1/267	[=======>] [========>]	_	ETA.	2.20	_	1055.	0.1270 acc. 0.7071
		[=======>]						
2068	116/267	[======>]	-	ETA:	3:26 -	-	LOSS:	U.1253 - acc: U.9592
		[======>]						
		[=======>]						
		[======>]						
		[======>]						
2073	121/267	[=======>]	_	ETA:	3:20 -	-	loss:	0.1238 - acc: 0.9602
2074	122/267	[======================================	_	ETA:	3:19 -	-	loss:	0.1233 - acc: 0.9602
		[========>]						
		[========>]						
		[=========>]						
		[=========>]						
2070	120/207	[=========>]	_	ETA.	2.12 -	_	1055.	0.1217 acc: 0.9607
		[========>]						
		[=======>]						
		[=======>]						
2083	131/267	[=======>]	-	ETA:	3:08 -	-	loss:	0.1212 - acc: 0.9608
		[=======>]						
2085	133/267	[=======>]	-	ETA:	3:05 -	-	loss:	0.1216 - acc: 0.9607
2086	134/267	[=======>]	_	ETA:	3:04 -	-	loss:	0.1215 - acc: 0.9608
2087	135/267	[=======>]	_	ETA:	3:02 -	-	loss:	0.1219 - acc: 0.9607
2088	136/267	[=======>]	_	ETA:	3:01 -	-	loss:	0.1211 - acc: 0.9610
		[=========>]						
		[=========>]						
		[=========>]						
		[=========>]						
		[=========>]						
2093	142/267	[======================================	_	FTA.	2.57	_	1055.	0 1198 - acc: 0 9609
		[========>]						
		[========>]						
		[=========>]						
		[========>]						
		[========>]						
		[========>]						
		[========>]						
		[=========>]						
		[=======>]						
		[======>]						
2105	153/267	[======================================	_	ETA:	2:40 -	-	loss:	0.1169 - acc: 0.9618
2106	154/267	[======================================	_	ETA:	2:38 -	-	loss:	0.1166 - acc: 0.9619
		[======================================						
2108	156/267	[======================================	_	ETA:	2:35 -	_	loss:	0.1165 - acc: 0.9621
2109	157/267	[======================================	_	ETA:	2:34 -	_	loss	0.1165 - acc: 0.9619
		[======================================						
		[======================================						
		[======================================						
2113	101/267	[======================================	-	EIA:	2:29 -	-	LOSS:	U.1108 - acc: U.9616
		[======================================						
		[======================================						
		[======>]						
2117	165/267	[======================================	-	ETA:	2:23 -	-	loss:	0.1183 - acc: 0.9613
2118	166/267	[======>]	-	ETA:	2:22 -	-	loss:	0.1180 - acc: 0.9613
2119	167/267	[======>]	_	ETA:	2:21 -	-	loss:	0.1182 - acc: 0.9614
2120	168/267	[=====>]	_	ETA:	2:19 -	-	loss:	0.1180 - acc: 0.9614

```
2121 169/267 [============>....] - ETA: 2:18 - loss: 0.1181 - acc: 0.9615
2124 172/267 [=============>.....] - ETA: 2:14 - loss: 0.1185 - acc: 0.9613
2127 175/267 [=============>.....] - ETA: 2:10 - loss: 0.1187 - acc: 0.9612
2134 182/267 [===============>.....] - ETA: 2:00 - loss: 0.1185 - acc: 0.9613
```

```
1722 - val_acc: 0.9398
2220 Epoch 9/19
2221
2222
    1/267 [.....] - ETA: 2:12 - loss: 0.0424 - acc: 1.0000
    2/267 [.....] - ETA: 2:06 - loss: 0.0378 - acc: 1.0000
2223
    3/267 [.....] - ETA: 2:04 - loss: 0.0409 - acc: 0.9944
2224
    4/267 [.....] - ETA: 2:02 - loss: 0.0543 - acc: 0.9917 5/267 [......] - ETA: 2:00 - loss: 0.0625 - acc: 0.9900
2225
2226
    6/267 [......] - ETA: 1:59 - loss: 0.0673 - acc: 0.9861
2227
    2228
2229
    9/267 [>.....] - ETA: 1:58 - loss: 0.0834 - acc: 0.9778
2230
   2231
2232
2233
   13/267 [>.....] - ETA: 1:55 - loss: 0.0848 - acc: 0.9705
2234
   14/267 [>.....] - ETA: 1:54 - loss: 0.0890 - acc: 0.9679
2235
18/267 [=>...........] - ETA: 2:40 - loss: 0.0888 - acc: 0.9676
19/267 [=>............] - ETA: 2:50 - loss: 0.0907 - acc: 0.9675
2239
2240
2241
   20/267 [=>.....] - ETA: 3:02 - loss: 0.0907 - acc: 0.9667
   21/267 [=>......] - ETA: 3:11 - loss: 0.0981 - acc: 0.9635
22/267 [=>......] - ETA: 3:18 - loss: 0.0995 - acc: 0.9621
2242
2243
   23/267 [=>....] - ETA: 3:23 - loss: 0.1014 - acc: 0.9609
24/267 [=>....] - ETA: 3:28 - loss: 0.1014 - acc: 0.9611
2244
2245
   2246
2247
2248
   27/267 [==>.....] - ETA: 3:41 - loss: 0.0989 - acc: 0.9623
   28/267 [==>....] - ETA: 3:45 - loss: 0.1006 - acc: 0.9607
29/267 [==>....] - ETA: 3:47 - loss: 0.0988 - acc: 0.9615
2249
2250
   30/267 [==>....] - ETA: 3:50 - loss: 0.1037 - acc: 0.9583 31/267 [==>....] - ETA: 3:54 - loss: 0.1062 - acc: 0.9581
2251
2252
   32/267 [==>....] - ETA: 3:58 - loss: 0.1070 - acc: 0.9583 33/267 [==>....] - ETA: 4:03 - loss: 0.1071 - acc: 0.9586
2253
2254
2255
   34/267 [==>.....] - ETA: 4:05 - loss: 0.1075 - acc: 0.9588
   35/267 [==>....] - ETA: 4:06 - loss: 0.1071 - acc: 0.9586
36/267 [===>....] - ETA: 4:07 - loss: 0.1055 - acc: 0.9588
2256
2257
   37/267 [===>.....] - ETA: 4:09 - loss: 0.1046 - acc: 0.9590
2258
   38/267 [===>.....] - ETA: 4:11 - loss: 0.1040 - acc: 0.9596
2259
   39/267 [===>.....] - ETA: 4:12 - loss: 0.1044 - acc: 0.9585
2260
   40/267 [===>.....] - ETA: 4:14 - loss: 0.1038 - acc: 0.9583
2261
2262
   41/267 [===>.....] - ETA: 4:15 - loss: 0.1022 - acc: 0.9589
   42/267 [===>....] - ETA: 4:16 - loss: 0.1022 - acc: 0.9591
43/267 [===>....] - ETA: 4:16 - loss: 0.1053 - acc: 0.9581
2263
2264

      44/267 [===>
      ] - ETA: 4:17 - loss: 0.1042 - acc: 0.9587

      45/267 [====>
      ] - ETA: 4:17 - loss: 0.1034 - acc: 0.9593

      46/267 [====>
      ] - ETA: 4:18 - loss: 0.1032 - acc: 0.9598

2265
2266
2267
   47/267 [====>.....] - ETA: 4:18 - loss: 0.1018 - acc: 0.9606
2268
   48/267 [====>....] - ETA: 4:18 - loss: 0.1005 - acc: 0.9615
2269

      49/267 [====>
      ] - ETA: 4:18 - loss: 0.1007 - acc: 0.9612

      50/267 [====>
      ] - ETA: 4:17 - loss: 0.0990 - acc: 0.9620

      51/267 [===>
      ] - ETA: 4:17 - loss: 0.0981 - acc: 0.9624

2270
2271
2272
2273
   52/267 [====>.....] - ETA: 4:18 - loss: 0.0969 - acc: 0.9628
```

File - F	Run train_n	etwork_generators				
2274	53/267	[====>]	- FTA:	4:18 -	loss:	0.0970 - acc: 0.9629
2275		[====>]			_	
1		[====>]				
2277		[====>]				
2278	57/267	[====>]	- ETA:	4:17 -	loss:	0.0954 - acc: 0.9640
2279	58/267	[====>]	- ETA:	4:16 -	loss:	0.0946 - acc: 0.9641
2280	59/267	[====>]	- ETA:	4:17 -	loss:	0.0941 - acc: 0.9641
		[====>]				
1						
2282		[====>]				
2283		[====>]				
2284	63/267	[=====>]	- ETA:	4:15 -	loss:	0.0912 - acc: 0.9651
2285	64/267	[=====>]	- ETA:	4:14 -	loss:	0.0913 - acc: 0.9651
2286	65/267	[=====>]	- ETA:	4:14 -	loss:	0.0915 - acc: 0.9651
2287		[=====>]				
2288		[=====>]				
2289		[=====>]				
2290		[=====>]				
2291		[=====>]				
2292	71/267	[=====>]	- ETA:	4:10 -	loss:	0.0941 - acc: 0.9646
2293	72/267	[======>]	- ETA:	4:09 -	loss:	0.0934 - acc: 0.9650
2294		[======>]				
2295		[======>]				
2296		[======>]				
2297		[======>]				
2298		[======>]				
2299		[======>]				
2300	79/267	[=====>]	- ETA:	4:03 -	loss:	0.0922 - acc: 0.9662
2301	80/267	[======>]	- ETA:	4:02 -	loss:	0.0928 - acc: 0.9660
		[======>]				
1		[======>]				
1		[======>]				
2305		[======>]				
1		[======>]				
		[======>]				
2308	87/267	[======>]	- ETA:	3:55 -	loss:	0.0917 - acc: 0.9663
2309		[======>]				
2310	89/267	[======>]	- ETA:	3:53 -	loss:	0.0921 - acc: 0.9659
	90/267	[=======>]	- FTΔ·	3.52 -	1055	0 0916 - acc: 0 9661
		[=======>]				
		[======>]				
1		[======>]				
2315		[======>]				
2316	95/267	[======>]	- ETA:	3:47 -	loss:	0.0931 - acc: 0.9658
		[======>]				
2318	97/267	[======>]	- ETA:	3:45 -	loss:	0.0933 - acc: 0.9658
2319		[=======>]				
		[=======>]				
		[=======>]				
		[=======>]				
		[======>]				
		[======>]				
		[=======>]				
2326	105/267	[======>]	- ETA:	3:37 -	loss:	0.0942 - acc: 0.9654
		[=======>]				
		[=======>]				
		[=======>]				
		[=======>]				
		[========>]				
		[=======>]				
		[======>]				
1		[=======>]				
2335	114/267	[=======>]	- ETA:	3:27 -	loss:	0.0964 - acc: 0.9646
		[=======>]				
		[=======>]				
		[======================================				
		[======================================				
2340	TTA\ 70.\	[=======>]	- LIA:	3:20 -	1055:	0.907// - acc: 0.9644
		[=======>]				
		[=======>]				
2343	122/267	[=======>]	- ETA:	3:18 -	loss:	0.0965 - acc: 0.9652
		[=======>]				
		[========>]				
23/16	125/267	[=======>]	- FT∆ ·	3.14 -	1055.	0 0962 - acc: 0 9653
		[========>]				
		[========>]				
		[=======>]				
2350	129/267	[========>]	- ETA:	3:09 -	loss:	0.0971 - acc: 0.9649

File - F	Run train_ne	etwork_generators						
2351	130/267	[=========>]	_	FTA:	3:08	_	1055:	0.0967 - acc: 0.9650
2352	131/267	[=========>]	_	FTA.	3.07	_	1055.	0.0972 - acc: 0.9650
2252	131/207	[]		ETA.	2.05		1	0.0972 acc. 0.9050
		[=======>]						
		[=======>]						
		[=======>]						
2356	135/267	[=======>]	_	ETA:	3:01	-	loss:	0.0959 - acc: 0.9657
2357	136/267	[=======>]	_	ETA:	3:00	-	loss:	0.0957 - acc: 0.9657
2358	137/267	[======================================	_	ETA:	2:59	_	loss:	0.0953 - acc: 0.9659
		[=========>]						
2360	130/267	[========>]	_	ETA:	2.56	_	1055.	0.0903 acc: 0.9009
2300	100/207	[		ETA.	2.50		1	0.0001 acc. 0.9001
		[======>]						
		[========>]						
		[=======>]						
		[=======>]						
2365	144/267	[=======>]	_	ETA:	2:50	_	loss:	0.0942 - acc: 0.9661
2366	145/267	[======================================	_	ETA:	2:48	_	loss:	0.0939 - acc: 0.9662
		[=========>]						
2368	147/267	[======================================	_	FTA:	2.46	_	1055.	0.0937 - acc: 0.9666
		[========>]						
23.70	149/267	[======>]	_	EIA:	2:43	-	Loss:	0.0932 - acc: 0.9666
		[======>]						
2372	151/267	[======>]	-	ETA:	2:41	-	loss:	0.0927 - acc: 0.9668
2373	152/267	[======>]	-	ETA:	2:39	-	loss:	0.0925 - acc: 0.9669
		[======================================						
		[======================================						
2376	155/267	[======================================	_	FTA.	2.35	_	1055.	0 0922 - acc: 0 9669
2577	150/267	[======================================	-	EIA:	2.34	_	1055:	0.0026 - acc. 0.0005
		[======================================						
		[=========>]						
2380	159/267	[=======>]	-	ETA:	2:30	-	loss:	0.0926 - acc: 0.9664
2381	160/267	[======>]	-	ETA:	2:29	-	loss:	0.0924 - acc: 0.9663
		[=======>]						
2383	162/267	[======================================	_	ETA:	2:28	_	loss:	0.0924 - acc: 0.9663
		[=========>]						
		[======================================						
2200	165/267	[======================================	_	ETA.	2.20	_	1055.	0.0920 acc. 0.9002
		[==========>]						
		[=======>]						
		[=======>]						
2390	169/267	[======>]	-	ETA:	2:18	-	loss:	0.0920 - acc: 0.9663
2391	170/267	[======>]	-	ETA:	2:17	-	loss:	0.0918 - acc: 0.9665
		[=======>]						
		[======================================						
		[======================================						
		[======================================						
2393	175/207	[======================================	_	ETA.	2.11	_	1055.	0.0010 - 2001 0.0664
		[=======>]						
		[=====>]						
2399	178/267	[======>]	-	ETA:	2:06	-	loss:	0.0924 - acc: 0.9662
2400	179/267	[=====>]	-	ETA:	2:04	-	loss:	0.0927 - acc: 0.9661
2401	180/267	[======>]	-	ETA:	2:03	-	loss:	0.0930 - acc: 0.9662
		[======================================						
2403	182/267	[======================================	_	ETA:	2:00	_	loss:	0.0943 - acc: 0.9660
		[======================================						
2405	184/267	[======================================	_	FTA.	1 · 58	_	1055	0 0937 - acc: 0 9663
21106	185/267	[======================================	_	FTV.	1 · 56	_	1055.	0 00H0 - acc: 0 0660
		[======================================						
		[======================================						
2409	188/267	[======>]	-	ETA:	1:52	-	LOSS:	U.U952 - acc: U.9660
2410	189/267	[======>]	-	ETA:	1:51	-	Loss:	0.0956 - acc: 0.9659
2411	190/267	[=====>,]	-	ETA:	1:49	-	loss:	0.0957 - acc: 0.9658
2412	191/267	[======>,]	-	ETA:	1:48	-	loss:	0.0953 - acc: 0.9660
		[======>]						
		[======================================						
2Д15	194/267	[======================================	_	FTA.	1 • 🎹	_	1055	0 0955 - acc: 0 9661
2116	195/267	[======================================	_	FTV.	1・4つ	_	1055.	0.0953 - acc: 0.9662
2417	190/50/	[=======>]	-	EIA:	1:41	_	1055:	0.0052 - acc: 0.9001
		[======>]						
		[======>]						
2420	199/267	[======>]	-	ETA:	1:37	-	loss:	0.0958 - acc: 0.9659
2421	200/267	[=======>,]	-	ETA:	1:35	-	loss:	0.0957 - acc: 0.9659
2422	201/267	[======>]	_	ETA:	1:34	-	loss:	0.0956 - acc: 0.9659
2423	202/267	[======>]	_	ETA:	1:32	_	loss:	0.0953 - acc: 0.9660
		[======================================						
		[======================================						
2423	204/20/	[======>]	_	ETA.	1.20	_	1055.	0.055 - acc: 0.9661
2426	203/267	[	-	EIA:	1.28	_	1055:	0.0950 - acc. 0.9001
2427	206/267	[======>]	-	EIA:	1:27	-	LOSS:	ช.ช57 - acc: ช.9659

```
2181 - val_acc: 0.9278
2489 Epoch 10/19
2490

      1/267 [...
      ...
      ] - ETA: 2:01 - loss: 0.1192 - acc: 0.9667

      2/267 [...
      ...
      ] - ETA: 1:59 - loss: 0.0825 - acc: 0.9750

      3/267 [...
      ...
      ] - ETA: 1:59 - loss: 0.0818 - acc: 0.9778

      4/267 [...
      ...
      ] - ETA: 1:58 - loss: 0.0803 - acc: 0.9750

2491
2492
2493
2494
 2495
2496
2497
2498
 8/267 [.....] - ETA: 1:57 - loss: 0.0696 - acc: 0.9750
 9/267 [>.....] - ETA: 1:56 - loss: 0.0713 - acc: 0.9741
2499
 10/267 [>.....] - ETA: 1:56 - loss: 0.0757 - acc: 0.9717 11/267 [>......] - ETA: 1:56 - loss: 0.0741 - acc: 0.9712
2500
2501
 12/267 [>.....] - ETA: 1:55 - loss: 0.0719 - acc: 0.9722
2502
2503 13/267 [>.......................] - ETA: 1:55 - loss: 0.0720 - acc: 0.9731
```

File - R	tun train_n	etwork_generators				
2504	14/267	[>] -	- FTA·	1 · 54 -	1055	· 0 0704 - acc· 0 9738
1		[>] -				
		[>] -				
2507	17/267	[>] -	- ETA:	1:53 -	· loss:	: 0.0698 - acc: 0.9755
2508	18/267	[=>] -	- ETA:	1:52 -	· loss:	: 0.0741 - acc: 0.9741
		[=>] -				
2510		[=>] -				
1						
		[=>] -				
		[=>] -				
2513	23/267	[=>] -	- ETA:	2:11 -	· loss:	: 0.0819 - acc: 0.9717
2514	24/267	[=>] -	- ETA:	2:14 -	loss	: 0.0795 - acc: 0.9729
2515	25/267	[=>] -	- ETA:	2:18 -	loss	: 0.0793 - acc: 0.9733
		[=>] -				
2517		[==>] -				
1						
		[==>] -				
2519		[==>] -				
2520	30/267	[==>] -	- ETA:	2:29 -	· loss:	: 0.0803 - acc: 0.9722
2521	31/267	[==>] -	- ETA:	2:30 -	loss	: 0.0827 - acc: 0.9710
		[==>] -				
		[==>] -				
		[==>] -				
2525		[==>] -				
2526	36/267	[===>] -	- ETA:	2:36 -	loss	: 0.0823 - acc: 0.9718
		[===>] -				
		[===>] -				
		[===>] -				
2530		[===>] -				
		[===>] -				
		[===>] -				
2533	43/267	[===>] -	- ETA:	2:40 -	· loss:	: 0.0855 - acc: 0.9725
2534	44/267	[===>] -	- ETA:	2:40 -	loss	: 0.0855 - acc: 0.9727
2535	45/267	[====>] -	- ETA:	2:40 -	loss	: 0.0847 - acc: 0.9733
1		[====>] -				
		[===>] -				
2538		[====>] -				
2539		[====>] -				
2540		[====>] -				
2541	51/267	[====>] -	- ETA:	2:42 -	loss	: 0.0894 - acc: 0.9712
2542		[===>] -				
2543		[====>] -				
2544		[====>] -				
2545		[====>] -				
		[====>] -				
2547		[====>] -				
2548	58/267	[====>] -	- ETA:	2:42 -	· loss:	: 0.0849 - acc: 0.9733
2549	59/267	[====>] -	- ETA:	2:42 -	loss	: 0.0844 - acc: 0.9737
2550	60/267	[====>] -	- ETA:	2:41 -	loss	: 0.0844 - acc: 0.9736
		[====>] -				
		[====>] -				
2553		[=====>] -				
2554		[=====>] -				
2555		[=====>] -				
2556		[=====>] -				
2557	67/267	[=====>] -	- ETA:	2:39 -	loss	: 0.0844 - acc: 0.9739
2558		[=====>] -				
2559	-	[=====>] -				
2560		[=====>] -				
	71/20/	[		2.30 -	1	. 0.0034
2561		[=====>] -				
2562		[======>] -				
2563		[=====>] -				
2564		[=====>] -				
2565	75/267	[======>] -	- ETA:	2:37 -	loss	: 0.0836 - acc: 0.9740
2566	76/267	[======>] -	- ETA:	2:37 -	loss	: 0.0836 - acc: 0.9737
2567		[======>] -				
2568		[======>] -				
2569		[======>] -				
2570	80/267	[=====>] -	- ETA:	2:37 -	LOSS	: 0.0836 - acc: 0.9731
2571	81/267	[======>] -	- ETA:	2:37 -	loss	: 0.0850 - acc: 0.9730
2572	82/267	[======>] -	- ETA:	2:37 -	· loss:	: 0.0846 - acc: 0.9732
2573		[======>] -				
2574		[======>] -				
2575		[======>] -				
	00/20/	[	ETA.	2.30 -	1	. 0.0004 acc. 0.7737
2576		[======>] -				
2577		[======>] -				
2578		[======>] -				
2579		[======>] -				
2580	90/267	[======>] -	- ETA:	2:32 -	loss	: 0.0822 - acc: 0.9744
L						

File - F	Run train_n	etwork_generators				
2581	91/267	[======>]	– FTΔ	· 2·31 –	1055.	0 0827 - acc: 0 9740
		[=======>]				
2502	92/207	[]	- EIA	. 2.31 -	1055.	0.0020 - acc. 0.9739
		[======>]				
2584	94/267	[======>]	<ul><li>ETA</li></ul>	: 2:30 -	loss:	0.0828 - acc: 0.9741
		[======>]				
		[=======>]				
2587	97/267	[======>]	- EIA	: 2:28 -	LOSS:	0.0824 - acc: 0.9742
2588	98/267	[=======>]	- ETA	: 2:27 -	loss:	0.0822 - acc: 0.9741
2589	99/267	[======>]	- ETA	: 2:27 -	loss:	0.0822 - acc: 0.9741
		[=======>]				
2501	100/207	[=======>]	ETA	. 2.20	1	0.0025 acc. 0.0740
		[======>]				
2593	103/267	[=======>]	- ETA	: 2:24 -	loss:	0.0817 - acc: 0.9741
2594	104/267	[======>]	- ETA	: 2:23 -	loss:	0.0813 - acc: 0.9742
		[=======>]				
		[======>]				
2597	107/267	[======>]	- EIA	: 2:21 -	LOSS:	0.0825 - acc: 0.9735
2598	108/267	[======>]	- ETA	: 2:21 -	loss:	0.0820 - acc: 0.9738
2599	109/267	[=======>]	<ul><li>ETA</li></ul>	: 2:20 -	loss:	0.0828 - acc: 0.9737
		[======>]				
		[========>]				
		[=======>]				
		[=======>]				
		[======>]				
		[=======>]				
		[=========>]				
		[=======>]				
		[========>]				
		[=======>]				
		[=======>]				
2611	121/267	[=======>]	- ETA	: 2:12 -	loss:	0.0904 - acc: 0.9698
2612	122/267	[=======>]	- ETA	: 2:11 -	loss:	0.0926 - acc: 0.9690
2613	123/267	[=======>]	<ul><li>ETA</li></ul>	: 2:11 -	loss:	0.0936 - acc: 0.9688
2614	124/267	[=======>]	- ETA	: 2:10 -	loss:	0.0951 - acc: 0.9688
		[=======>]				
		[========>]				
		[=========>]				
2610	120/267	[========>]	_ ETA	. 2.07	1055.	0.0001 acc. 0.0070
		[=======>]				
		[========>]				
		[======>]				
		[=======>]				
2623	133/267	[======>]	– ETA	: 2:02 -	loss:	0.0975 - acc: 0.9672
		[======>]				
2625	135/267	[=======>]	<ul><li>ETA</li></ul>	: 2:01 -	loss:	0.0976 - acc: 0.9673
2626	136/267	[=======>]	- ETA	: 2:00 -	loss:	0.0973 - acc: 0.9673
2627	137/267	[========>]	- ETA	: 1:59 -	loss:	0.0981 - acc: 0.9672
2628	138/267	[======================================	- FTA	1 1 58 -	1055	0 0979 - acc: 0 9673
		[======================================				
		[=========>]				
		[======================================				
2032	142/267	[========>]	- EIA	. 1:55 -	LOSS:	ש.ש.ש. 12 = acc: ש.ש.ש. 17
		[=======> <u>]</u>				
		[=========>]				
		[=======>]				
		[======================================				
2637	147/267	[======================================	- ETA	: 1:50 -	loss:	0.0986 - acc: 0.9667
		[=======>]				
		[======================================				
		[======================================				
		[======================================				
		[======================================				
		[========>]				
		[=======>]				
		[=======>]				
		[======================================				
2647	157/267	[======>]	- ETA	: 1:42 -	loss:	0.1006 - acc: 0.9659
2648	158/267	[======================================	- ETA	: 1:41 -	loss:	0.1005 - acc: 0.9659
		[======================================				
		[======================================				
		[======================================				
2652	162/267	[======================================	- FT/	· 1·38 -	loss	0 1002 - acc: 0 9662
2652	162/207	[======================================		. 1.27	1055.	0.1002 400. 0.7002
		[======================================				
		[======================================				
		[======================================				
2657	167/267	[======>]	- ETA	: 1:33 -	Loss:	0.1001 - acc: 0.9663

```
2658 168/267 [=============>....] - ETA: 1:32 - loss: 0.1005 - acc: 0.9662
2664 174/267 [===============>.....] - ETA: 1:27 - loss: 0.1036 - acc: 0.9651
2681 191/267 [================>.....] - ETA: 1:12 - loss: 0.1019 - acc: 0.9662
```

```
1942 - val_acc: 0.9277
2758 Epoch 11/19
2759
2760
    1/267 [.....] - ETA: 2:05 - loss: 0.0261 - acc: 1.0000
    2761
2762
2763
     5/267 [......] - ETA: 1:57 - loss: 0.0619 - acc: 0.9800
2764
    2765
2766
    8/267 [.....] - ETA: 1:55 - loss: 0.0646 - acc: 0.9812
2767
    2768
2769
2770
    12/267 [>.....] - ETA: 1:53 - loss: 0.0804 - acc: 0.9764
2771
    13/267 [>.....] - ETA: 1:53 - loss: 0.0821 - acc: 0.9731
2772

      14/267 [>...
      ] - ETA: 1:53 - Loss: 0.0837 - acc: 0.9726

      15/267 [>...
      ] - ETA: 1:52 - Loss: 0.0811 - acc: 0.9733

      16/267 [>...
      ] - ETA: 2:00 - Loss: 0.0928 - acc: 0.9729

      17/267 [>...
      ] - ETA: 2:13 - Loss: 0.0923 - acc: 0.9716

      18/267 [=>...
      ] - ETA: 2:23 - Loss: 0.0934 - acc: 0.9713

2773
2774
2775
2776
2777
2778
    19/267 [=>.....] - ETA: 2:32 - loss: 0.0909 - acc: 0.9719
    20/267 [=>......] - ETA: 2:40 - loss: 0.0872 - acc: 0.9733
21/267 [=>......] - ETA: 2:44 - loss: 0.0858 - acc: 0.9730
2779
2780
    2781
2782
2783
2784
2785
    26/267 [=>.....] - ETA: 3:05 - loss: 0.0830 - acc: 0.9737
    27/267 [==>....] - ETA: 3:07 - loss: 0.0826 - acc: 0.9735
28/267 [==>....] - ETA: 3:11 - loss: 0.0825 - acc: 0.9738
2786
2787
   2788
2789
2790
2791
2792
    33/267 [==>.....] - ETA: 3:21 - loss: 0.0784 - acc: 0.9768
    34/267 [==>....] - ETA: 3:22 - loss: 0.0773 - acc: 0.9770 35/267 [==>....] - ETA: 3:24 - loss: 0.0790 - acc: 0.9762
2793
2794
    36/267 [===>.....] - ETA: 3:26 - loss: 0.0779 - acc: 0.9769
37/267 [===>.....] - ETA: 3:27 - loss: 0.0788 - acc: 0.9770
38/267 [===>.....] - ETA: 3:28 - loss: 0.0822 - acc: 0.9759
2795
2796
2797
    39/267 [===>....] - ETA: 3:29 - loss: 0.0829 - acc: 0.9756
2798
2799
    40/267 [===>.....] - ETA: 3:29 - loss: 0.0830 - acc: 0.9754
    41/267 [===>....] - ETA: 3:30 - loss: 0.0834 - acc: 0.9756
42/267 [===>....] - ETA: 3:31 - loss: 0.0825 - acc: 0.9762
2800
2801

      43/267 [===>
      ] - ETA: 3:32 - loss: 0.0828 - acc: 0.9760

      44/267 [===>
      ] - ETA: 3:35 - loss: 0.0846 - acc: 0.9758

      45/267 [===>
      ] - ETA: 3:35 - loss: 0.0836 - acc: 0.9759

2802
2803
2804
2805
    46/267 [====>.....] - ETA: 3:36 - loss: 0.0827 - acc: 0.9761
    47/267 [====>.....] - ETA: 3:36 - loss: 0.0814 - acc: 0.9766
2806
    48/267 [====>....] - ETA: 3:36 - loss: 0.0813 - acc: 0.9760
49/267 [====>....] - ETA: 3:36 - loss: 0.0805 - acc: 0.9762
2807
2808
    50/267 [====>.....] - ETA: 3:36 - loss: 0.0811 - acc: 0.9757
2809
2810
    51/267 [====>.....] - ETA: 3:36 - loss: 0.0814 - acc: 0.9755
```

File - F	Run train_n	etwork_generators					
2811	52/267	[====>]	- FTA	. 3.37 -	_ 1	1055.	0 0813 - acc: 0 9756
		[===>]					
		[====>]					
2814		[====>]					
2815	56/267	[====>]	<ul><li>ETA:</li></ul>	: 3:35 -	- 1	loss:	0.0844 - acc: 0.9744
2816	57/267	[====>]	- ETA	: 3:35 -	- 1	loss:	0.0833 - acc: 0.9749
2817		[====>]					
		[====>]					
2818							
2819		[====>]					
	-	[====>]					
2821	62/267	[====>]	- ETA	: 3:33 -	- 1	loss:	0.0808 - acc: 0.9758
2822	63/267	[=====>]	- FTA	3:32 -	- 1	loss:	0.0801 - acc: 0.9759
		[=====>]					
2824		[=====>]					
		[=====>]					
2826	67/267	[=====>]	- ETA	: 3:30 -	- 1	loss:	0.0803 - acc: 0.9751
2827	68/267	[=====>]	<ul><li>ETA:</li></ul>	: 3:30 -	- 1	loss:	0.0813 - acc: 0.9748
2828	69/267	[=====>]	- ETA:	: 3:29 -	- 1	loss:	0.0821 - acc: 0.9749
2829		[=====>]					
2830		[=====>]					
1							
1		[=====>]					
2832		[=====>]					
2833	74/267	[=====>]	- ETA	: 3:26 -	- 1	loss:	0.0790 - acc: 0.9759
2834		[=====>]					
2835		[======>]					
2836		[======>]					
	-						
2837		[======>]					
2838		[=====>]					
2839	80/267	[=====>]	- ETA	: 3:22 -	- 1	loss:	0.0761 - acc: 0.9773
2840		[======>]					
		[======>]					
		[======>]					
		[======>]					
		[======>]					
		[======>]					
2846	87/267	[======>]	- ETA:	: 3:17 -	- 1	loss:	0.0830 - acc: 0.9759
2847	88/267	[======>]	- ETA	3:16 -	- 1	loss:	0.0827 - acc: 0.9759
2848	89/267	[=======>]	- FTΔ	· 3·16 -	_ 1	lnee	0 0847 - acc: 0 9753
1							
2849		[======>]					
2850		[======>]					
2851		[======>]					
2852	93/267	[======>]	- ETA	: 3:13 -	- 1	loss:	0.0839 - acc: 0.9756
2853	94/267	[======>]	- ETA:	: 3:12 -	- 1	loss:	0.0839 - acc: 0.9757
2854		[======>]					
2855		[=======>]					
2856		[=======>]					
2857	98/267	[======>]	- EIA	: 3:09 -	- !	L055:	0.0823 - acc: 0.9762
		[======>]					
2859	100/267	[======>]	<ul><li>ETA:</li></ul>	: 3:07 -	- 1	loss:	0.0818 - acc: 0.9762
2860	101/267	[======>]	- ETA	: 3:06 -	- 1	loss:	0.0813 - acc: 0.9764
		[=======>]					
		[=======>]					
		[=======>]					
		[=======>]					
		[======>]					
		[======>]					
2867	108/267	[======>]	- ETA	: 3:00 -	- 1	loss:	0.0806 - acc: 0.9767
		[======>]					
		[=======>]					
		[=======>]					
		[=======>]					
		[========>]					
		[======>]					
		[=======>]					
		[=======>]					
		[=======>]					
		[======================================					
2077	110/207	[=======>]	_ ETA	. 2.51		1055.	0.0002 acc. 0.0765
		[=======>]					
		[=======>]					
2881	122/267	[=======>]	- ETA	: 2:49 -	- 1	loss:	0.0795 - acc: 0.9766
		[=======>]					
2883	124/267	[========>]	- FTA	2:47 -	_ 1	loss	0.0801 - acc: 0.9765
		[========>]					
		[=======>]					
		[=======>]					
2887	128/267	[=======>]	- ETA	: 2:43 -	- 1	loss:	0.0795 - acc: 0.9767

```
2888 129/267 [========>.....] - ETA: 2:42 - loss: 0.0791 - acc: 0.9769
2911 152/267 [==========>.....] - ETA: 2:18 - loss: 0.0814 - acc: 0.9762
2918 159/267 [==========>.....] - ETA: 2:10 - loss: 0.0810 - acc: 0.9758
2921 162/267 [============>.....] - ETA: 2:07 - loss: 0.0811 - acc: 0.9757
2925 166/267 [============>.....] - ETA: 2:02 - loss: 0.0810 - acc: 0.9758
2932 173/267 [=============>.....] - ETA: 1:55 - loss: 0.0812 - acc: 0.9757
2939 180/267 [===============>.....] - ETA: 1:46 - loss: 0.0811 - acc: 0.9756
2946 187/267 [================>.....] - ETA: 1:38 - loss: 0.0809 - acc: 0.9758
2952 193/267 [===============>.....] - ETA: 1:31 - loss: 0.0801 - acc: 0.9760
2953 194/267 [================>......] - ETA: 1:30 - loss: 0.0797 - acc: 0.9761
```

```
3371 - val_acc: 0.9006
3027 Epoch 12/19
3028
 1/267 [.....] - ETA: 2:09 - loss: 0.1387 - acc: 0.9667
3029
 2/267 [.....] - ETA: 2:04 - loss: 0.1130 - acc: 0.9583 3/267 [.....] - ETA: 2:02 - loss: 0.1090 - acc: 0.9611
3030
3031

      3/267
      ...
      1 - ETA. 2.02 - L0SS: 0.1090 - aCC: 0.9611

      4/267
      ...
      2 - ETA: 1:59 - loss: 0.0884 - acc: 0.9708

      5/267
      ...
      2 - ETA: 1:58 - loss: 0.0786 - acc: 0.9733

      6/267
      ...
      2 - ETA: 1:57 - loss: 0.0724 - acc: 0.9750

3032
3033
3034
3035
 7/267 [.....] - ETA: 1:56 - loss: 0.0705 - acc: 0.9762
 8/267 [.....] - ETA: 1:56 - loss: 0.0910 - acc: 0.9750
3036
 9/267 [>.....] - ETA: 1:56 - loss: 0.0816 - acc: 0.9778 10/267 [>......] - ETA: 1:55 - loss: 0.0876 - acc: 0.9767
3037
3038
 11/267 [>.....] - ETA: 1:55 - loss: 0.0802 - acc: 0.9788
3039
3040 12/267 [>...............] - ETA: 1:55 - loss: 0.0858 - acc: 0.9750
```

File - R	un train_n	etwork_generators					
30Д1	13/267	[>]	- FTA	• 1•5Д -	_	1055.	0 0838 - acc: 0 9756
1							
		[>]					
3043		[>]					
3044		[>]					
3045	17/267	[>]	<ul><li>ETA</li></ul>	: 2:39 -	- '	loss:	0.0828 - acc: 0.9745
3046		[=>]					
3047		[=>]					
3048		[=>]					
3049		[=>]					
3050	22/267	[=>]	- ETA	: 3:21 -	- '	loss:	0.0787 - acc: 0.9750
3051	23/267	[=>]	- ETA	: 3:26 -	_ `	loss:	0.0779 - acc: 0.9754
3052	24/267	[=>]	- FTA	: 3:31 -		loss:	0.0755 - acc: 0.9764
3053		[=>]					
3054		[=>]					
3055	27/267	[==>]	- ETA	: 3:42	-	loss:	0.0748 - acc: 0.9753
3056	28/267	[==>]	- ETA	: 3:45	- '	loss:	0.0729 - acc: 0.9762
3057	29/267	[==>]	- ETA	: 3:49 -	- '	loss:	0.0726 - acc: 0.9759
3058		[==>]					
3059		[==>]					
3060		[==>]					
l l		[==>]					
3062	34/267	[==>]	- ETA	: 4:00	- '	loss:	0.0724 - acc: 0.9765
3063	35/267	[==>]	- ETA	: 4:01 -	- '	loss:	0.0717 - acc: 0.9767
3064		[===>]					
3065		[===>]					
		[===>]					
3066							
3067		[===>]					
3068		[===>]					
3069	41/267	[===>]	- ETA	: 4:08	- '	loss:	0.0689 - acc: 0.9780
3070	42/267	[===>]	- ETA	: 4:09 -	- '	loss:	0.0675 - acc: 0.9786
3071	43/267	[===>]	- ETA	: 4:09 -	_ `	loss:	0.0675 - acc: 0.9783
3072		[===>]					
3073		[===>]					
3074							
		[====>]					
3075		[====>]					
3076		[====>]					
3077		[====>]					
3078	50/267	[====>]	- ETA	: 4:10 -	_ '	loss:	0.0681 - acc: 0.9773
3079		[====>]					
3080		[====>]					
3081		[====>]					
3082		[====>]					
3083		[====>]					
3084		[====>]					
3085	57/267	[====>]	- ETA	: 4:09 -	- '	loss:	0.0712 - acc: 0.9772
3086	58/267	[====>]	- ETA	: 4:09 -	_ `	loss:	0.0709 - acc: 0.9770
3087	59/267	[====>]	- ETA	: 4:08 -		loss:	0.0704 - acc: 0.9771
3088		[====>]					
3089		[====>]					
3090		[====>]					
3091		[=====>]					
3092		[=====>]					
3093		[=====>]					
3094	66/267	[=====>]	- ETA	: 4:05	- '	loss:	0.0703 - acc: 0.9773
3095		[=====>]					
3096	· .	[=====>]					
3097		[=====>]					
3098	70/267	[=====>]	- ETV	· П·७3 ·		lose	0 0699 - acc: 0 9776
3099		[=====>]					
3100		[======>]					
3101		[=====>]					
3102		[=====>]					
3103		[=====>]					
3104		[======>]					
3105		[======>]					
3106		[======>]					
		[======>]					
3107	19/20/	[]	- CIA	. 3.30		1055.	0.0000 - acc. 0.9770
3108		[=====>]					
3109		[======>]					
3110	82/267	[======>]	- ETA	: 3:55	- '	loss:	0.0698 - acc: 0.9768
3111		[======>]					
3112	84/267	[======>]	- ETA	: 3:54 -	_ `	loss:	0.0688 - acc: 0.9772
	85/267	[======>]	- FTA	: 3:53		loss	0.0685 - acc: 0.9775
3114		[======>]					
3115		[======>]					
l l							
3116		[======>]					
3117	89/267	[======>]	- ETA	: 3:49	-	LOSS:	U.Ub77 - acc: U.9777

File - F	Run train_n	etwork_generators						
3118	90/267	[======>]	-	ETA:	3:48	_	loss:	0.0678 - acc: 0.9772
3119	91/267	[======>]	_	ETA:	3:47	_	loss:	0.0676 - acc: 0.9771
3120	92/267	[======>]	_	FTA:	3.46	_	1055	0 0691 - acc: 0 9766
		[======>]						
3122	94/267	[=======>]	_	FTA:	3.40	_	1055.	0.0030 acc: 0.3707
		[=======>]						
		[======>]						
		[======>]						
		[======>]						
		[======>]						
3128	100/267	[=======>]	_	ETA:	3:38	-	loss:	0.0701 - acc: 0.9763
3129	101/267	[=======>]	_	ETA:	3:37	-	loss:	0.0696 - acc: 0.9766
3130	102/267	[======>]	_	ETA:	3:36	_	loss:	0.0696 - acc: 0.9765
3131	103/267	[=======>]	_	ETA:	3:35	_	loss:	0.0691 - acc: 0.9767
		[======>]						
3133	105/267	[=======>]	_	ETA:	3:32	_	loss:	0.0688 - acc: 0.9767
		[=======>]						
3135	107/267	[=======>]	_	FTA:	3.30	_	1055.	0.0685 - acc: 0.9766
		[=======>]						
3137	109/26/	[=======>]	_	ETA:	3:20	_	1055:	0.00/5 - acc: 0.9//1
		[=======>]						
3139	111/267	[=======>]	-	ETA:	3:26	-	LOSS:	0.0672 - acc: 0.9770
		[======>]						
		[======>]						
3142	114/267	[======>]	_	ETA:	3:22	-	loss:	0.0664 - acc: 0.9772
3143	115/267	[========>]	_	ETA:	3:21	-	loss:	0.0663 - acc: 0.9772
		[========>]						
		[=======>]						
		[========>]						
		[========>]						
		[=========>]						
		[========>]						
3150	121/207	[========>]	_	ETA.	2.12	_	1055.	0.0050 acc: 0.5777
		[=======>]						
3152	124/26/	[=======>]	_	ETA:	3:11	_	1055:	0.0050 - acc: 0.9778
		[=======>]						
		[=======>]						
		[=======>]						
		[=======>]						
3157	129/267	[======>]	_	ETA:	3:05	-	loss:	0.0663 - acc: 0.9773
		[======>]						
3159	131/267	[=======>]	-	ETA:	3:02	-	loss:	0.0664 - acc: 0.9772
3160	132/267	[=======>]	_	ETA:	3:01	_	loss:	0.0663 - acc: 0.9771
3161	133/267	[=======>]	_	ETA:	3:00	_	loss:	0.0664 - acc: 0.9772
3162	134/267	[========>]	_	ETA:	2:59	_	loss:	0.0668 - acc: 0.9771
		[======================================						
		[=========>]						
		[=========>]						
		[=========>]						
		[=========>]						
3168	1/10/267	[======================================	_	ETA.	2.52	_	1055.	0.0001 acc: 0.7773
		[======================================						
2100	1/12/267	[======================================	_	ETA.	2.00	_	1055.	0.0070 acc. 0.9770
		[========>]						
3172	144/267	[========>]	-	EIA:	2:46	-	LOSS:	υ.υο/3 - acc: υ.97/υ
		[======>]						
		[========>]						
	-	[=======>]						
		[=======>]						
		[======>]						
		[======>]						
		[=======>]						
		[======>,]						
3181	153/267	[==========>]	_	ETA:	2:34	_	loss:	0.0658 - acc: 0.9776
		[======================================						
3183	155/267	[======================================	_	ETA:	2:31	_	loss:	0.0660 - acc: 0.9776
		[======================================						
3125	157/267	[======================================	_	FTA.	2.20	_	1055.	0 0655 - acc: 0 9778
		[======================================						
2100	160/267	[=========>]	_	EIA:	2.20	_	1055:	0.0001 - acc. 0.9///
		[=========>]						
		[======================================						
		[=========>]						
		[=========>]						
3192	164/267	[======>]	-	ETA:	2:20	-	loss:	0.0662 - acc: 0.9777
3193	165/267	[======>]	-	ETA:	2:19	-	loss:	0.0664 - acc: 0.9777
3194	166/267	[=====>]	_	ETA:	2:17	-	loss:	0.0663 - acc: 0.9777

```
3195 167/267 [===========>....] - ETA: 2:16 - loss: 0.0661 - acc: 0.9777
3201 173/267 [===============>.....] - ETA: 2:08 - loss: 0.0666 - acc: 0.9777
```

```
1181 - val_acc: 0.9552
3296 Epoch 13/19
3297
     1/267 [.....] - ETA: 2:02 - loss: 0.1265 - acc: 0.9667
3298
     2/267 [.....] - ETA: 1:58 - loss: 0.0832 - acc: 0.9750
3/267 [.....] - ETA: 1:59 - loss: 0.0651 - acc: 0.9778
3299
3300
     4/267 [......] - ETA: 1:58 - loss: 0.0561 - acc: 0.9792
3301
     3302
3303
     7/267 [.....] - ETA: 1:56 - loss: 0.0708 - acc: 0.9810
3304

      8/267 [...
      ] - ETA: 1:56 - loss: 0.0691 - acc: 0.9792

      9/267 [>...
      ] - ETA: 1:56 - loss: 0.0897 - acc: 0.9741

      10/267 [>...
      ] - ETA: 1:55 - loss: 0.0960 - acc: 0.9733

3305
3306
3307
    11/267 [>.....] - ETA: 1:55 - loss: 0.0906 - acc: 0.9727
3308

      11/267 [>...
      ] - ETA: 1:55 - LOSS: 0.0906 - acc: 0.9727

      12/267 [>...
      ] - ETA: 1:54 - LOSS: 0.0944 - acc: 0.9722

      13/267 [>...
      ] - ETA: 1:54 - LOSS: 0.0966 - acc: 0.9731

      14/267 [>...
      ] - ETA: 1:53 - LOSS: 0.0906 - acc: 0.9750

      15/267 [>...
      ] - ETA: 1:53 - LOSS: 0.0902 - acc: 0.9756

      16/267 [>...
      ] - ETA: 1:52 - LOSS: 0.0889 - acc: 0.9760

      17/267 [>...
      ] - ETA: 1:51 - LOSS: 0.0885 - acc: 0.9745

3309
3310
3311
3312
3313
3314
    18/267 [=>.....] - ETA: 1:51 - loss: 0.0947 - acc: 0.9731
19/267 [=>.....] - ETA: 1:55 - loss: 0.0944 - acc: 0.9728
20/267 [=>.....] - ETA: 1:58 - loss: 0.0904 - acc: 0.9742
3315
3316
3317
    3318
3319
3320
3321
    25/267 [=>.....] - ETA: 2:15 - loss: 0.0860 - acc: 0.9760
3322
    26/267 [=>.....] - ETA: 2:16 - loss: 0.0868 - acc: 0.9750
27/267 [==>.....] - ETA: 2:18 - loss: 0.0852 - acc: 0.9759
3323
3324
    28/267 [==>......] - ETA: 2:20 - loss: 0.0885 - acc: 0.9762
29/267 [==>......] - ETA: 2:21 - loss: 0.0870 - acc: 0.9764
3325
3326
    30/267 [==>....] - ETA: 2:24 - loss: 0.0894 - acc: 0.9756
31/267 [==>....] - ETA: 2:25 - loss: 0.0874 - acc: 0.9763
3327
3328
3329
    32/267 [==>.....] - ETA: 2:27 - loss: 0.0895 - acc: 0.9750
    33/267 [==>....] - ETA: 2:27 - loss: 0.0878 - acc: 0.9753 34/267 [==>....] - ETA: 2:28 - loss: 0.0879 - acc: 0.9750
3330
3331
    3332
3333
3334
    38/267 [===>....] - ETA: 2:33 - loss: 0.0862 - acc: 0.9741
3335
3336
    39/267 [===>.....] - ETA: 2:34 - loss: 0.0850 - acc: 0.9744
    40/267 [===>....] - ETA: 2:34 - loss: 0.0853 - acc: 0.9742
41/267 [===>....] - ETA: 2:35 - loss: 0.0851 - acc: 0.9744
3337
3338
    3339
3340
3341
    45/267 [====> ... ] - ETA: 2:37 - loss: 0.0828 - acc: 0.9752
46/267 [====> ... ] - ETA: 2:37 - loss: 0.0821 - acc: 0.9754
3342
3343
    47/267 [====>....] - ETA: 2:39 - loss: 0.0808 - acc: 0.9759
48/267 [====>....] - ETA: 2:39 - loss: 0.0805 - acc: 0.9760
3344
3345
    49/267 [====>....] - ETA: 2:39 - loss: 0.0793 - acc: 0.9765
3346
3347
    50/267 [====>.....] - ETA: 2:40 - loss: 0.0813 - acc: 0.9763
```

File - R	Run train_n	etwork_generators						
3348	51/267	[====>]	_	ETA:	2:40	_	loss:	0.0804 - acc: 0.9768
3349		[===>]						
		[===>]						
		[====>]						
3352	55/267	[====>]	-	ETA:	2:41	-	loss:	0.0809 - acc: 0.9767
3353	56/267	[====>]	-	ETA:	2:43	-	loss:	0.0801 - acc: 0.9768
3354		[====>]						
3355		[====>]						
3356		[====>]						
	-	[====>]						
3358	61/267	[====>]	-	ETA:	2:43	-	loss:	0.0784 - acc: 0.9776
3359	62/267	[====>]	-	ETA:	2:42	_	loss:	0.0780 - acc: 0.9777
3360		[=====>]						
		[=====>]						
		[=====>]						
3363	66/267	[=====>]	-	ETA:	2:40	-	loss:	0.0749 - acc: 0.9783
3364	67/267	[=====>]	-	ETA:	2:40	-	loss:	0.0750 - acc: 0.9779
3365	68/267	[=====>]	-	ETA:	2:40	_	loss:	0.0744 - acc: 0.9779
3366		[=====>]						
3367		[=====>]						
1								
3368		[=====>]						
3369		[=====>]						
3370	73/267	[=====>]	-	ETA:	2:38	-	loss:	0.0722 - acc: 0.9785
3371		[=====>]						
3372		[======>]						
3373		[======>]						
	-							
3374		[=====>]						
3375		[=====>]						
3376	79/267	[=====>]	- 1	ETA:	2:35	-	loss:	0.0707 - acc: 0.9795
3377		[=====>]						
		[======>]						
3379		[======>]						
		[======>]						
		[======>]						
3382	85/267	[======>]	-	ETA:	2:32	-	loss:	0.0684 - acc: 0.9804
3383	86/267	[======>]	-	ETA:	2:31	-	loss:	0.0678 - acc: 0.9806
3384	87/267	[======>]	-	ETA:	2:30	_	loss:	0.0672 - acc: 0.9808
3385	88/267	[======>]	_ 1	FTA.	2.30	_	1055.	0.0670 - acc: 0.9807
1								
3386		[======>]						
		[======>]						
3388	91/267	[======>]	-	ETA:	2:28	-	loss:	0.0679 - acc: 0.9802
3389		[======>]						
3390	93/267	[======>]	-	ETA:	2:27	_	loss:	0.0705 - acc: 0.9797
		[======>]						
		[======>]						
3393		[======>]						
		[======>]						
		[======>]						
		[=======>]						
3397	100/267	[=======>]	- 1	ETA:	2:23	-	loss:	0.0727 - acc: 0.9795
		[=======>]						
		[=======>]						
		[=======>]						
		[=======>]						
		[======>]						
		[======>]						
		[======>]						
3405	108/267	[=======>]	-	ETA:	2:19	-	loss:	0.0730 - acc: 0.9793
		[=======>]						
		[=======>]						
		[========>]						
		[=======>]						
		[======>]						
		[======>]						
3412	115/267	[======>]	-	ETA:	2:14	-	loss:	0.0714 - acc: 0.9799
		[=======>,]						
		[=======>]						
2/11 5	119/267	[========>]	_ '		2.12	_	1055.	0.0725 - 200: 0.0707
		[=======>]						
		[=======>]						
3418	121/267	[=======>]	-	ETA:	2:09	-	loss:	0.0720 - acc: 0.9800
3419	122/267	[=======>]	- 1	ETA:	2:08	_	loss:	0.0714 - acc: 0.9802
3420	123/267	[=======>]	_ 1	ETA.	2:08	_	loss	0.0715 - acc: 0.9801
		[========>]						
		[========>]						
		[=======>]						
3424	127/267	[======>]	-	ETA:	2:04	-	LOSS:	0.0702 - acc: 0.9806

File - F	Run train_ne	etwork_generators					
3425	128/267	[=========>]	- FTA:	2:04 -	loss:	0.0698 - acc: 0.9	9807
		[========>]					
2420	120/207	[	_ ETA:	2.03	1000	0.0070 acc. 0.3	2007
		[======>]					
		[========>]					
		[=======>]					
3430	133/267	[=======>]	- ETA:	2:00 -	loss:	0.0701 - acc: 0.9	9807
3431	134/267	[======>]	- ETA:	1:59 -	loss:	0.0698 - acc: 0.9	9807
3432	135/267	[======================================	- ETA:	1:58 -	loss:	0.0701 - acc: 0.9	9807
		[=========>]					
		[=========>]					
2424	137/207	[	ETA.	1.50	1	0.0700 acc. 0.1	2007
		[=======>]					
		[=======>]					
		[=======>]					
3438	141/267	[========>]	- ETA:	: 1:53 -	loss:	0.0695 - acc: 0.9	9807
3439	142/267	[=======>]	- ETA:	: 1:52 -	loss:	0.0692 - acc: 0.9	9809
3440	143/267	[======>]	- ETA:	1:51 -	loss:	0.0688 - acc: 0.9	9810
		[=========>]					
3442	145/267	[======================================	- FTA	1:50 -	1055	0 0685 - acc: 0 9	9810
311/13	1/16/267	[=========>]	- ETA	1 : //0 =	1055.	0.0000 acc: 0.0	2012
		[=======>]					
		[========>]					
		[========>]					
		[=======>]					
		[======>]					
		[======================================					
		[======================================					
		[======================================					
		[======================================					
		[======================================					
		[======================================					
		[=======>]					
		[=======>]					
		[========>]					
		[======================================					
3459	162/267	[======================================	- ETA:	: 1:36 -	loss:	0.0665 - acc: 0.9	9814
3460	163/267	[======================================	- ETA:	: 1:35 -	loss:	0.0671 - acc: 0.9	9813
3461	164/267	[=====>]	- ETA:	: 1:34 -	loss:	0.0669 - acc: 0.9	9814
3462	165/267	[=======>]	- ETA:	1:33 -	loss:	0.0666 - acc: 0.9	9815
		[=======>]					
		[======================================					
		[======================================					
		[======================================					
3467	170/267	[======================================	- FTΔ·	1 : 29 -	1055.	9 9656 - acc: 9 9	9817
		[======================================					
		[======================================					
		[======================================					
3471	174/267	[======>]	- EIA:	1:26 -	1055:	0.0648 - acc: 0.9	9819
3472	175/267	[=====>]	- ETA:	1:25 -	Loss:	0.0644 - acc: 0.9	9820
3473	176/267	[=====>]	- ETA:	1:24 -	loss:	0.0642 - acc: 0.9	9821
		[======>,]					
		[======>]					
3476	179/267	[======>]	- ETA:	: 1:21 -	loss:	0.0635 - acc: 0.9	9823
3477	180/267	[======>]	- ETA:	1:20 -	loss:	0.0632 - acc: 0.9	9824
		[======================================					
		[======================================					
		[======================================					
		[======>]					
		[======================================					
3/183	186/267	[======================================	_ FTA	1.15 -	1055.	0.0627 - acc: 0.5	9826
		[======>]					
		[======>]					
		[======>]					
3487	190/267	[======>]	- ETA:	: 1:12 -	Loss:	0.0625 - acc: 0.9	9827
		[======>]					
3489	192/267	[======>,]	- ETA:	1:10 -	loss:	0.0624 - acc: 0.9	9828
		[======>]					
3491	194/267	[======>]	- ETA:	1:08 -	loss:	0.0621 - acc: 0.9	9828
3492	195/267	[======>]	- ETA:	1:07 -	loss:	0.0621 - acc: 0.9	9828
		[======>]					
		[======================================					
		[======================================					
31106	199/267	[======================================	_ FTA	1 • 0// -	1055.	0 0643 - acc: 0.5	9826
2490	200 /264 201 /264	[======>]	_ CTA	1.07	1055.	0.00-3 acc. 0.3	2020
		[======>]					
		[======>]					
		[======>]					
3501	204/267	[======>]	- ETA:	595 -	LOSS:	⊍.⊎649 - acc: 0.98	320
1							

```
0747 - val_acc: 0.9783
3565 Epoch 14/19
3566
 1/267 [.....] - ETA: 2:07 - loss: 0.0325 - acc: 0.9833 2/267 [.....] - ETA: 2:02 - loss: 0.0224 - acc: 0.9917
3567
3568

      3/267 [...
      ] - ETA: 2:00 - loss: 0.0446 - acc: 0.9833

      4/267 [...
      ] - ETA: 1:58 - loss: 0.0525 - acc: 0.9792

      5/267 [...
      ] - ETA: 1:58 - loss: 0.0665 - acc: 0.9800

3569
3570
3571
 3572
3573
 8/267 [.....] - ETA: 1:56 - loss: 0.0613 - acc: 0.9854
9/267 [>.....] - ETA: 1:56 - loss: 0.0622 - acc: 0.9852
3574
3575
10/267 [>.....] - ETA: 1:55 - loss: 0.0609 - acc: 0.9833
3576
3577 11/267 [>......................] - ETA: 1:55 - loss: 0.0577 - acc: 0.9848
```

File - R	un train_n	etwork_generators							
3578	12/267	[>]	- FTA	· 1·54	_	1055.	0 0555 - acc: 0 9847	acc: 0 9847	
1		[>]							
		[>]							
3581	15/267	[>]	– ETA	: 1:53	-	loss:	0.0520 - acc: 0.9856	acc: 0.9856	
3582	16/267	[>]	<ul><li>ETA</li></ul>	: 2:03	-	loss:	0.0522 - acc: 0.9854	acc: 0.9854	
		[>]							
3584		[=>]							
1		[=>]							
3586		[=>]							
		[=>]							
3588	22/267	[=>]	- ETA	: 2:50	_	loss:	0.0526 - acc: 0.9848	acc: 0.9848	
3589	23/267	[=>]	- ETA	: 2:53	_	loss:	0.0516 - acc: 0.9848	acc: 0.9848	
3590		[=>]							
3591		[=>]							
1		[=>]							
3593		[==>]							
3594	28/267	[==>]	- ETA	: 3:14	-	loss:	0.0508 - acc: 0.9839	acc: 0.9839	
3595	29/267	[==>]	- ETA	: 3:17	_	loss:	0.0503 - acc: 0.9839	acc: 0.9839	
3596		[==>]							
		[==>]							
		[==>]							
3599		[==>]							
3600		[==>]							
3601	35/267	[==>]	- ETA	: 3:27	-	loss:	0.0508 - acc: 0.9833	acc: 0.9833	
3602		[===>]							
3603		[===>]							
3604		[===>]							
		[===>]							
3606		[===>]							
3607	41/267	[===>]	- ETA	: 3:32	-	loss:	0.0511 - acc: 0.9825	acc: 0.9825	
3608	42/267	[===>]	- ETA	: 3:26	_	loss:	0.0505 - acc: 0.9826	acc: 0.9826	
3609	43/267	[===>]	- FTA	: 3:27	_	loss:	0.0496 - acc: 0.9830	acc: 0.9830	
		[===>]							
		[===>]							
3611									
1		[====>]							
3613		[====>]							
3614		[====>]							
3615	49/267	[====>]	- ETA	: 3:29	_	loss:	0.0461 - acc: 0.9848	acc: 0.9848	
3616		[====>]							
3617		[===>]							
3618		[===>]							
3619		[====>]							
3620	54/267	[====>]	– ETA	: 3:29	-	loss:	0.0454 - acc: 0.9843	acc: 0.9843	
3621	55/267	[====>]	- ETA	: 3:29	-	loss:	0.0452 - acc: 0.9846	acc: 0.9846	
3622	56/267	[====>]	- ETA	: 3:29	-	loss:	0.0451 - acc: 0.9846	acc: 0.9846	
3623	57/267	[====>]	- ETA	: 3:29	_	loss:	0.0446 - acc: 0.9846	acc: 0.9846	
3624	58/267	[====>]	- FTA	: 3:28	_	loss:	0.0446 - acc: 0.9845	acc: 0.9845	
1		[====>]							
3626		[====>]							
3627		[=====>]							
3628		[====>]							
3629		[=====>]							
3630		[=====>]							
3631	65/267	[=====>]	- ETA	: 3:27	-	loss:	0.0463 - acc: 0.9841	acc: 0.9841	
3632		[=====>]							
3633	-	[=====>]							
3634		[=====>]							
	60/20/	[	_ ET^	. 2.25	_	1000	0.0-20 acc. 0.2030	200: A 0021	
3635		[=====>]							
3636		[=====>]							
3637		[=====>]							
3638		[=====>]							
3639	73/267	[=====>]	- ETA	: 3:23	-	loss:	0.0499 - acc: 0.9831	acc: 0.9831	
3640	74/267	[=====>]	- ETA	: 3:22	_	loss:	0.0517 - acc: 0.9827	acc: 0.9827	
3641	75/267	[======>]	- FTA	. 3.22	_	1055.	0.0513 - acc: 0.9829	acc: 0.9829	
3642		[======>]							
3643		[======>]							
3644	78/267	[=====>]	- ETA	: 3:20	-	LOSS:	0.0516 - acc: 0.9827	acc: 0.9827	
3645	79/267	[=====>]	- ETA	: 3:19	-	loss:	0.0516 - acc: 0.9827	acc: 0.9827	
3646		[=====>]							
3647		[======>]							
3648		[======>]							
3649	03/20/	[======>]	- LIA	. 2.10	-	1.55	0.0533 - acc. 0.3023	acc. 0.9023	
3650		[======>]							
3651		[======>]							
3652		[======>]							
3653	87/267	[======>]	- ETA	: 3:13	-	loss:	0.0517 - acc: 0.9834	acc: 0.9834	
3654		[======>]							
	, -0,								

File - F	Run train_n	etwork_generators						
3655	89/267	[======>]	_	FTΔ·	3.12 -	_	1055.	0 0512 - acc: 0 9835
		[======>]						
3657	91/267	[======>]	_	ETA:	3:10 -	-	loss:	0.0515 - acc: 0.9835
3658	92/267	[=======>]	_	ETA:	3:09 -	- '	loss:	0.0513 - acc: 0.9837
		[======>]						
		[======>]						
		[======>]						
3662	96/267	[======>]	_	ETA:	3:06 -	- 1	loss:	0.0506 - acc: 0.9841
3663	97/267	[======>]	_	ETA:	3:06 -	- '	loss:	0.0506 - acc: 0.9840
		[=======>]						
2665	00/267	[=======>]	_	ETA.	2.01 -		1000.	0.0512 - 200: 0.0927
		[======>]						
3667	101/267	[======>]	_	ETA:	3:04 -	- '	loss:	0.0506 - acc: 0.9840
3668	102/267	[=======>]	_	ETA:	3:03 -	- '	loss:	0.0501 - acc: 0.9842
3669	103/267	[=======>]	_	FTA.	3.02 -		1055.	0 0497 - acc: 0 9843
		[=======>]						
		[======>]						
		[======>]						
3673	107/267	[======>]	_	ETA:	2:59 -	- '	loss:	0.0493 - acc: 0.9843
3674	108/267	[=======>]	_	ETA:	2:59 -	- '	loss:	0.0492 - acc: 0.9843
		[========>]						
		[=======>]						
		[=======>]						
		[======>]						
3679	113/267	[======>]	_	ETA:	2:54 -	- '	loss:	0.0481 - acc: 0.9845
		[========>]						
		[========>]						
		[=======>]						
		[=======>]						
		[=======>]						
		[=======>]						
3686	120/267	[========>]	_	ETA:	2:48 -	- 1	loss:	0.0489 - acc: 0.9845
3687	121/267	[=======>]	_	ETA:	2:47 -	- '	loss:	0.0489 - acc: 0.9843
3688	122/267	[=======>]	_	ETA:	2:47 -	- '	loss:	0.0486 - acc: 0.9845
		[========>]						
		[=======>]						
2021	125/267	[=======>]	_	EIA.	2.44 -	٠.	.055.	0.0407 - acc. 0.9044
		[======>]						
		[======>]						
		[=======>]						
3695	129/267	[=======>]	_	ETA:	2:40 -	- '	loss:	0.0503 - acc: 0.9839
3696	130/267	[=======>]	_	ETA:	2:39 -	- '	loss:	0.0500 - acc: 0.9840
3697	131/267	[=========>]	_	FTA:	2:38 -		loss:	0.0497 - acc: 0.9841
		[========>]						
		[=========>]						
		[======================================						
3 /01	135/26/	[=======>]	_	EIA:	2:34 -	٠.		0.0499 - acc: 0.9842
		[======>]						
		[=======>]						
		[======>]						
3705	139/267	[=======>]	_	ETA:	2:30 -	- '	loss:	0.0496 - acc: 0.9844
		[=========>]						
3707	1/11/267	[======================================	_	ETA.	2.28 -		1000.	0.0100 - 300: 0.0017
		[========>]						
		[========>]						
		[========>]						
		[======>]						
3712	146/267	[=======>]	-	ETA:	2:22 -	- '	loss:	0.0486 - acc: 0.9847
		[=======>]						
		[=========>]						
		[======================================						
1								
		[=========>]						
		[=======>]						
		[======================================						
		[======================================						
		[======>]						
3721	155/267	[========>]	_	ETA:	2:13 -	- '	loss:	0.0494 - acc: 0.9844
3722	156/267	[======================================	_	ETA:	2:11 -		loss:	0.0492 - acc: 0.9845
		[======================================						
		[======================================						
		[======================================						
3726	160/267	[======>]	-	EIA:	2:07 -	-	LOSS:	U.U493 - acc: U.9847
		[======>]						
		[======>]						
3729	163/267	[======>]	-	ETA:	2:04 -	- '	loss:	0.0490 - acc: 0.9847
3730	164/267	[=======>]	_	ETA:	2:03 -	- '	loss:	0.0490 - acc: 0.9847
		[======================================						
	, -0,							

```
3732 166/267 [==========>....] - ETA: 2:01 - loss: 0.0488 - acc: 0.9847
3738 172/267 [===============>.....] - ETA: 1:54 - loss: 0.0485 - acc: 0.9848
3755 189/267 [==============>......] - ETA: 1:35 - loss: 0.0489 - acc: 0.9848
3758 192/267 [============>.....] - ETA: 1:32 - loss: 0.0486 - acc: 0.9848
```

```
1675 - val_acc: 0.9511
3834 Epoch 15/19
3835
    3836
3837
    3/267 [.....] - ETA: 2:01 - loss: 0.0600 - acc: 0.9722
3838
    3839
3840
3841
    3842
3843
3844
   10/267 [>.....] - ETA: 1:55 - loss: 0.0501 - acc: 0.9833
3845

    10/267 [>...
    ] - ETA: 1:55 - Loss: 0.0501 - acc: 0.9833

    11/267 [>...
    ] - ETA: 1:55 - Loss: 0.0466 - acc: 0.9848

    12/267 [>...
    ] - ETA: 1:54 - Loss: 0.0481 - acc: 0.9833

    13/267 [>...
    ] - ETA: 1:54 - Loss: 0.0479 - acc: 0.9821

    14/267 [>...
    ] - ETA: 1:53 - Loss: 0.0475 - acc: 0.9821

    15/267 [>...
    ] - ETA: 2:10 - Loss: 0.0485 - acc: 0.9812

    17/267 [>...
    ] - ETA: 2:21 - Loss: 0.0485 - acc: 0.9812

3846
3847
3848
3849
3850
3851
   17/267 [>.....] - ETA: 2:21 - loss: 0.0476 - acc: 0.9814
3852
   18/267 [=>.....] - ETA: 2:30 - loss: 0.0476 - acc: 0.9815
19/267 [=>.....] - ETA: 2:40 - loss: 0.0463 - acc: 0.9825
3853
3854
   3855
3856
3857
3858
3859
   24/267 [=>.....] - ETA: 3:12 - loss: 0.0440 - acc: 0.9819
   25/267 [=>.....] - ETA: 3:14 - loss: 0.0424 - acc: 0.9827
26/267 [=>.....] - ETA: 3:19 - loss: 0.0472 - acc: 0.9821
3860
3861
   3862
3863
3864
3865
3866
   31/267 [==>.....] - ETA: 3:35 - loss: 0.0459 - acc: 0.9828
   32/267 [==>....] - ETA: 3:38 - loss: 0.0479 - acc: 0.9823 33/267 [==>.....] - ETA: 3:40 - loss: 0.0470 - acc: 0.9823
3867
3868
   3869
3870
3871
3872
   38/267 [===>....] - ETA: 3:48 - loss: 0.0444 - acc: 0.9838
3873
   39/267 [===>....] - ETA: 3:49 - loss: 0.0439 - acc: 0.9842
40/267 [===>....] - ETA: 3:50 - loss: 0.0436 - acc: 0.9842
3874
3875
   3876
3877
3878
   44/267 [===>...] - ETA: 3:53 - loss: 0.0410 - acc: 0.9852
45/267 [===>...] - ETA: 3:54 - loss: 0.0415 - acc: 0.9848
3879
3880
   46/267 [====>....] - ETA: 3:54 - loss: 0.0412 - acc: 0.9848
47/267 [====>....] - ETA: 3:55 - loss: 0.0428 - acc: 0.9840
3881
3882
   48/267 [====>.....] - ETA: 3:55 - loss: 0.0463 - acc: 0.9833
3883
3884
   49/267 [====>.....] - ETA: 3:59 - loss: 0.0457 - acc: 0.9837
```

riie - F	Kun nam_n	etwork_generators							
3885	50/267	[====>]	_	FTΔ·	<b>д · 00</b>	_	1055.	0 0U5U - acc: 0 9	837
3886	51/267	[====>]	-	ETA:	4:00	_	loss:	0.0467 - acc: 0.9	833
3887	52/267	[====>]	I –	FTA.	<b>д · өө</b>	_	1055.	0 0459 - acc: 0 9	837
3888	53/267	[====>]	_	EIA:	4:01	_	LOSS:	0.0477 - acc: 0.9	833
3889	54/267	[====>]	-	ETA:	4:01	_	loss:	0.0484 - acc: 0.9	830
3890		[====>]							
3891	56/267	[====>]	-	ETA:	4:00	_	loss:	0.0478 - acc: 0.9	830
3892		[====>]							
3893	58/267	[====>]	_	ETA:	4:00	-	loss:	0.0474 - acc: 0.9	833
3894	50/267	[====>]	i _	ETA.	11 . 00	_	1000	0 0/171 - 200: 0 0	022
3895	60/267	[====>]	-	ETA:	4:00	_	loss:	0.0473 - acc: 0.9	831
3896		[====>]							
1	-	-							
3897	62/267	[====>]	-	ETA:	3:59	_	loss:	0.0473 - acc: 0.9	831
3898	63/267	[=====>]	_	$FT\Delta$ .	3.58	_	1055.	0 0H60 - acc. 0 0	833
3899		[=====>]							
3900	65/267	[=====>]	-	ETA:	3:57	_	loss:	0.0476 - acc: 0.9	833
3901		[=====>]							
3902	67/267	[=====>]	_	ETA:	3:57	_	loss:	0.0469 - acc: 0.9	833
3903		[=====>]							
3904		[=====>]							
3905		[=====>]							
3906	-	[=====>]							
3907	72/267	[=====>]	-	ETA.	3:53	_	loss	0.0481 - acc: 0 9	826
3908		[=====>]							
3909	74/267	[======>]	-	ETA:	3:52	_	loss:	0.0473 - acc: 0.9	831
3910		[======>]							
3911	76/267	[======>]	-	ETA:	3:50	-	loss:	0.0474 - acc: 0.9	829
3912	-	[======>]							
3913		[=====>]							
3914	79/267	[======>]	-	ETA:	3:48	-	loss:	0.0482 - acc: 0.9	823
3915		[======>]							
3916	81/267	[======>]	-	ETA:	3:46	-	loss:	0.0475 - acc: 0.9	825
3917	82/267	[======>]	l –	FTA:	3:45	_	1055:	0.0469 - acc: 0.9	827
1									
3918		[======>]							
3919	84/267	[======>]	_	ETA:	3:43	_	loss:	0.0474 - acc: 0.9	827
3920		[======>]							
3921	86/267	[======>]	-	ETA:	3:41	_	loss:	0.0475 - acc: 0.9	826
3922	87/267	[======>]	l –	FTA:	3:40	_	1055:	0.0482 - acc: 0.9	822
3923									
		[======>]							
3924	89/267	[======>]	_	ETA:	3:39	-	loss:	0.0488 - acc: 0.9	822
3925	90/267	[======>]	i –	FTA.	3 · 38	_	1055.	0 0П8П - эсс. 0 0	82Ц
3926	-	[======>]							
3927	92/267	[======>]	-	ETA:	3:36	-	loss:	0.0479 - acc: 0.9	828
3928		[======>]							
	01/267	[		ETA.	2.20		1	0.0470 acc. 0.9	030
3929		[======>]							
3930	95/267	[======>]	_	ETA:	3:33	-	loss:	0.0499 - acc: 0.9	826
3031		[======>]							
		[======>]							
3933	98/267	[=======>]	-	ETA:	3:31	_	loss:	0.0505 - acc: 0.9	827
30311	90/267	[=======>]	ı _	ETV.	3.30	_	1055	0 0503 - 300: 0 0	227
3935	100/267	[=======>]	-	ETA:	3:29	-	LOSS:	⊎.0514 - acc: 0.9	827
3936	101/267	[======>]	-	ETA.	3:28	_	loss	0.0516 - acc: 0 9	827
		[======>]							
3938	103/267	[======>]	-	ETA:	3:26	-	loss:	0.0513 - acc: 0.9	827
3939	104/267	[======>]	-	ETA.	3:25	_	loss	0.0514 - acc: 0 9	825
		[=======>]							
3941	106/267	[======>]	-	ETA:	3:22	-	loss:	0.0511 - acc: 0.9	827
3942	107/267	[======>]	<b>–</b>	ETA:	3:21	_	loss:	0.0518 - acc: 0 9	824
		[=======>							
3944	109/267	[=======>]	-	ETA:	3:19	-	loss:	0.0513 - acc: 0.9	826
		[=======>]							
		[=======>]							
3947	112/267	[======>]	-	ETA:	3:15	-	loss:	0.0514 - acc: 0.9	827
		[=======>]							
		[=======>]							
3950	115/267	[======>]	-	ETA:	3:12	_	loss:	0.0508 - acc: 0.9	832
		[========>]							
3952	117/267	[=======>]	-	ETA:	3:09	-	Loss:	0.0505 - acc: 0.9	835
		[=======>]							
		[=======>]							
3955	120/267	[=======>]	-	ETA:	3:06	-	loss:	0.0500 - acc: 0.9	837
		[=======>]							
		[=======>]							
3958	123/267	[=======>]	-	ETA:	3:02	-	loss:	0.0499 - acc: 0.9	836
		[========>]							
		[=======>]							
3961	126/267	[=======>]	-	ETA:	2:59	_	loss:	0.0511 - acc: 0.9	832
	,,		•						

File - F	Run train_n	etwork_generators						
3962	127/267	[======================================	-	ETA:	2:58	_	loss:	0.0511 - acc: 0.9832
		[========>]						
30611	120/267	[=========>]	_	ETA.	2.55	_	1055.	0.0013
		[=======>]						
		[=======>]						
3967	132/267	[=======>]	_	ETA:	2:52	-	loss:	0.0516 - acc: 0.9831
3968	133/267	[=======>]	_	ETA:	2:51	-	loss:	0.0517 - acc: 0.9830
3969	134/267	[======================================	_	ETA:	2:50	_	loss:	0.0519 - acc: 0.9830
		[=========>]						
		[=========>]						
2071	130/207	[		ETA.	2.40		1	0.0013 acc. 0.9032
		[======>]						
3973	138/267	[========>]	_	EIA:	2:45	-	Loss:	0.0510 - acc: 0.9833
		[======================================						
		[=======>]						
3976	141/267	[======================================	_	ETA:	2:42	_	loss:	0.0504 - acc: 0.9836
3977	142/267	[======================================	_	FTA:	2:41	_	1055:	0.0509 - acc: 0.9835
		[=========>]						
2070	144/267	[=========>]	_	ETA.	2.32	_	1055.	0.0011 acc. 0.0000
3980	145/267	[========>]	_	EIA:	2:37	-	LOSS:	0.0525 - acc: 0.9831
3981	146/267	[======>]	_	ETA:	2:36	-	loss:	0.0524 - acc: 0.9831
3982	147/267	[======>]	_	ETA:	2:35	-	loss:	0.0525 - acc: 0.9831
3983	148/267	[=======>]	_	ETA:	2:33	-	loss:	0.0524 - acc: 0.9832
3984	149/267	[======================================	_	ETA:	2:32	_	loss:	0.0523 - acc: 0.9832
		[======================================						
3006	151/267	[=========>]	_	ETV.	2.30	_	1055.	0.0522 - acc: 0.0032
2000	152/267	[	_	ETA.	2.30	_	1055.	0.0022 acc. 0.7033
		[========>]						
3988	153/267	[========>]	-	ETA:	2:27	-	LOSS:	U.U526 - acc: U.9831
		[=======>]						
3990	155/267	[======>]	-	ETA:	2:25	-	loss:	0.0541 - acc: 0.9825
		[========>]						
		[======================================						
		[======================================						
		[======================================						
3993	100/20/	[======================================	_	EIA:	2:19	_	1055:	0.0551 - acc: 0.9617
3996	161/267	[======>]	_	EIA:	2:18	-	Loss:	0.0553 - acc: 0.9816
		[======>]						
3998	163/267	[=======>,]	_	ETA:	2:16	-	loss:	0.0549 - acc: 0.9817
3999	164/267	[=======>]	_	ETA:	2:15	_	loss:	0.0547 - acc: 0.9818
		[======================================						
		[======================================						
1001	167/267	[======================================	_	ETA.	2.12	_	1055.	0.05-0 acc. 0.0017
4003	100/20/	[=========>]	_	EIA:	2:10	_	1055:	0.0546 - acc: 0.9616
		[======> <u>]</u>						
		[=======>]						
4006	171/267	[======>]	_	ETA:	2:06	-	loss:	0.0551 - acc: 0.9815
4007	172/267	[=======>]	_	ETA:	2:05	-	loss:	0.0552 - acc: 0.9814
		[=======>]						
		[======================================						
		[======================================						
		[======================================						
4011	170/207	[		ETA.	1.50		1	0.0349 - acc. 0.9013
		[========>]						
4013	T/8/26/	[======================================	-	LIA:	T:2./	_	LOSS:	ש.שסטא – acc: ש.אאנט – acc: ש.אאנט
		[======>]						
4015	180/267	[======>]	-	ETA:	1:54	-	loss:	0.0566 - acc: 0.9815
4016	181/267	[=====>]	-	ETA:	1:53	-	loss:	0.0564 - acc: 0.9816
4017	182/267	[======>]	_	ETA:	1:52	-	loss:	0.0564 - acc: 0.9815
		[======================================						
		[======================================						
		[======================================						
		[======================================						
11022	100/20/	[	_	ETA.	1.47	_	1055.	0.0002 acc. 0.9010
4022	100/257	[======================================	_	EIA:	1.40	_	1055:	0.0501 - acc. 0.9013
4023	188/267	[======>]	-	EIA:	1:44	-	LOSS:	U.USSY - acc: U.9816
		[======>]						
4025	190/267	[======>]	-	ETA:	1:42	-	loss:	0.0562 - acc: 0.9815
4026	191/267	[======>]	_	ETA:	1:40	-	loss:	0.0561 - acc: 0.9815
4027	192/267	[======================================	_	ETA:	1:39	_	loss:	0.0569 - acc: 0.9814
<b>μ</b> θ28	193/267	[======================================	_	FT4·	1.38	_	1055.	0 0574 - acc: 0 9813
1020	10/1/267	[======>]	_	ETA.	1.26	_	1055.	0.0577 - 200: 0.0013
		[======>]						
4031	196/267	[======>]	-	ETA:	1:34	-	LOSS:	0.0570 - acc: 0.9814
4032	197/267	[=====>]	-	ETA:	1:32	-	loss:	0.0576 - acc: 0.9812
4033	198/267	[======>]	_	ETA:	1:31	-	loss:	0.0574 - acc: 0.9813
4034	199/267	[=====>]	_	ETA:	1:30	_	loss:	0.0580 - acc: 0.9812
		[======>:]						
		[======>]						
4037	202/267	[======================================	_	FTA:	1:26	_	1055.	0.0574 - acc: 0.9813
1020	202/207	[======================================	_	ETA.	1.25	_	1055.	0.0575 - acc: 0.0012
4838	203/207	L>	_	EIA:	1:25	_	1055:	0.03/3 - acc. 0.9813

```
5944 - val_acc: 0.8633
4103 Epoch 16/19
4104
4105
 1/267 [.....] - ETA: 2:09 - loss: 0.0159 - acc: 1.0000
 4106
4107
4108
 5/267 [.....] - ETA: 2:13 - loss: 0.0998 - acc: 0.9733
6/267 [.....] - ETA: 2:11 - loss: 0.0926 - acc: 0.9750
4109
4110
 7/267 [.....] - ETA: 2:09 - loss: 0.0995 - acc: 0.9714
8/267 [.....] - ETA: 2:08 - loss: 0.1181 - acc: 0.9646
4111
4112
 9/267 [>.....] - ETA: 2:07 - loss: 0.1056 - acc: 0.9685
4113
10/267 [>......] - ETA: 2:06 - loss: 0.0985 - acc: 0.9700
4114
```

File - R	tun train_n	etwork_generators						
4115	11/267	[>]	_	ETA:	2:05	-	loss:	0.0979 - acc: 0.9697
4116	12/267	[>]	_	ETA:	2:04	-	loss:	0.0963 - acc: 0.9667
		[>]						
		[>]						
		[>]						
		[>]						
		[>]						
		[=>]						
		[=>]						
		[=>]						
		[=>]						
		[=>]						
		[=>]						
4128	24/267	[=>]	-	ETA:	2:28	-	loss:	0.0724 - acc: 0.9750
4129	25/267	[=>]	-	ETA:	2:30	-	loss:	0.0727 - acc: 0.9747
4130	26/267	[=>]	-	ETA:	2:32	-	loss:	0.0737 - acc: 0.9744
4131	27/267	[==>]	-	ETA:	2:32	-	loss:	0.0737 - acc: 0.9741
4132	28/267	[==>]	-	ETA:	2:35	-	loss:	0.0723 - acc: 0.9744
4133	29/267	[==>]	_	ETA:	2:37	_	loss:	0.0725 - acc: 0.9747
	_	[==>]						
		[==>]						
		[==>]						
		[==>]						
		[==>]						
	_	[==>]						
		[===>]						
		[===>]						
		[===>]						
1	-	-						
	_	[===>]						
		[===>]						
		[===>]						
		[===>]						
		[===>]						
	_	[===>]						
		[====>]						
		[====>]						
4151	47/267	[====>]	-	ETA:	2:51	-	loss:	0.0730 - acc: 0.9734
4152	48/267	[====>]	-	ETA:	2:51	-	loss:	0.0730 - acc: 0.9736
4153	49/267	[====>]	-	ETA:	2:51	-	loss:	0.0725 - acc: 0.9735
4154	_	[===>]						
4155	51/267	[====>]	_	ETA:	2:52	-	loss:	0.0738 - acc: 0.9729
4156	52/267	[====>]	_	ETA:	2:51	_	loss:	0.0749 - acc: 0.9728
		[====>]						
		[====>]						
4159		[====>]						
4160		[====>]						
4161		[====>]						
-		[====>]						
	-	[====>]						
4164	_	_						
1		[====>] [====>						
1		[====>]						
4166		[====>]						
4167		[=====>]						
4168		[=====>]						
4169	-	[=====>]						
4170		[=====>]						
4171		[=====>]						
4172		[=====>]						
4173	_	[=====>]						
4174		[=====>]						
4175		[=====>]						
4176		[=====>]						
4177		[=====>]						
4178	74/267	[=====>]	-	ETA:	2:42	-	loss:	0.0997 - acc: 0.9669
4179	_	[=====>]						
4180	76/267	[=====>]	-	ETA:	2:41	-	loss:	0.0992 - acc: 0.9673
4181		[=====>]						
4182		[======>]						
4183		[======>]						
4184	_	[=====>]						
		[======>]						
		[======>]						
		[======>]						
		[======>]						
4189	_	[======>]						
4199		[======>]						
4131	01/267	[======>]	-	∟IA:	∠.30	_	1055:	0.0900 - acc. 0.9072

File - F	Run train_ne	etwork_generators				
4192	88/267	[======>]	- FTA	: 2:35 -	- 105	s: 0.0962 - acc: 0.9670
		[=======>]				
		[======>]				
		[======>]				
		[======>]				
4197	93/267	[======>]	- ETA	: 2:32 -	·los	s: 0.0944 - acc: 0.9683
		[=======>]				
		[======>]				
		[======>]				
4201	97/267	[======>]	- ETA	: 2:30 -	· Los	s: 0.0930 - acc: 0.9687
4202	98/267	[======>]	– ETA	: 2:29 -	·los	s: 0.0929 - acc: 0.9689
		[=======>]				
		[=======>]				
		[=======>]				
		[======>]				
		[======>]				
4208	104/267	[=======>]	– ETA	: 2:25 -	· los	s: 0.0915 - acc: 0.9692
4209	105/267	[======>]	- ETA	: 2:24 -	·los	s: 0.0912 - acc: 0.9694
4210	106/267	[======>]	- ETA	: 2:23 -	- los	s: 0.0907 - acc: 0.9695
		[=======>]				
		[=======>]				
4213	109/267	[=======>]	- ETA	: 2:21 -	- LOS	5: U.U888 - acc: U.9702
4214	110/267	[======>]	- ETA	: 2:20 -	·los	s: 0.0883 - acc: 0.9705
4215	111/267	[======>]	- ETA	: 2:20 -	·los	s: 0.0884 - acc: 0.9703
		[=======>]				
		[========>]				
		[=======>]				
		[=======>]				
		[=======>]				
		[=======>]				
4222	118/267	[=======>]	- ETA	: 2:14 -	- los	s: 0.0884 - acc: 0.9709
4223	119/267	[=======>]	- ETA	: 2:14 -	- los	s: 0.0880 - acc: 0.9710
		[========>]				
		[========>]				
		[=======>]				
		[=======>]				
4228	124/267	[=======>]	– ETA	: 2:10 -	·los	s: 0.0875 - acc: 0.9710
4229	125/267	[=======>]	- ETA	: 2:09 -	- los	s: 0.0873 - acc: 0.9711
		[=======>]				
		[========>]				
		[========>]				
		[=======>]				
		[======>]				
		[=======>]				
4236	132/267	[=======>]	– ETA	: 2:03 -	·los	s: 0.0847 - acc: 0.9720
4237	133/267	[=======>]	- ETA	: 2:02 -	- los	s: 0.0851 - acc: 0.9719
		[=========>]				
11330	135/267	[======================================	_ ETA	. 2.00 -	. 100	s: 0 08/16 - acc: 0 0722
		[========>]				
		[========>]				
		[========>]				
4243	139/267	[=======>]	- ETA	: 1:57 -	- los	s: 0.0834 - acc: 0.9727
4244	140/267	[======>]	- ETA	: 1:56 -	- los	s: 0.0830 - acc: 0.9727
		[=========>]				
		[======================================				
		[======================================				
		[======================================				
		[========>]				
		[=======>]				
4251	147/267	[======>]	- ETA	: 1:50 -	·los	s: 0.0855 - acc: 0.9726
		[=========>]				
		[======================================				
4254	150/267	[======================================	- FTA	· 1·47 -	. 1nc	s: 0 0851 - acc: 0 9727
		[=========>]				
		[=======>]				
		[=======>]				
4258	154/267	[======>]	- ETA	: 1:44 -	·los	s: 0.0846 - acc: 0.9727
4259	155/267	[======================================	- ETA	: 1:43 -	·los	s: 0.0844 - acc: 0.9728
		[======================================				
		[======================================				
		[========>]				
4263	T2A\ 79.\	[========>]	- EIA	. 1:41 -	. LOS	5: U.U829 - acc: U.9734
		[======>]				
		[======>]				
		[=========>]				
		[======================================				
		[======================================				
7200	104/20/	J	LIA	. 1.30 -	102	J. 0.0032 αCC. 0.9730

```
4269 165/267 [============>....] - ETA: 1:36 - loss: 0.0831 - acc: 0.9735
4292 188/267 [===============>......] - ETA: 1:15 - loss: 0.0823 - acc: 0.9732
4295 191/267 [============>.....] - ETA: 1:13 - loss: 0.0820 - acc: 0.9733
4320 216/267 [==============>.....] - ETA: 50s - loss: 0.0792 - acc: 0.9742
```

```
1730 - val_acc: 0.9465
4372 Epoch 17/19
4373
4374
   1/267 [.....] - ETA: 2:07 - loss: 0.2248 - acc: 0.9500
4375
   2/267 [.....] - ETA: 2:03 - loss: 0.1188 - acc: 0.9750
   4376
4377
4378
   4379
4380
4381
   9/267 [>.....] - ETA: 1:57 - loss: 0.0629 - acc: 0.9796
4382
  4383
4384
4385
4386
4387
4388
  16/267 [>.....] - ETA: 2:05 - loss: 0.0602 - acc: 0.9812
4389
  17/267 [>.....] - ETA: 2:19 - loss: 0.0585 - acc: 0.9824
18/267 [=>.....] - ETA: 2:30 - loss: 0.0604 - acc: 0.9815
4390
4391
  4392
4393
4394
4395
4396
  23/267 [=>.....] - ETA: 3:04 - loss: 0.0770 - acc: 0.9761
  24/267 [=>.....] - ETA: 3:08 - loss: 0.0758 - acc: 0.9764
25/267 [=>.....] - ETA: 3:12 - loss: 0.0772 - acc: 0.9753
4397
4398
  4399
4400
4401
4402
4403
  30/267 [==>.....] - ETA: 3:27 - loss: 0.0825 - acc: 0.9728
  31/267 [==>....] - ETA: 3:31 - loss: 0.0857 - acc: 0.9720 32/267 [==>....] - ETA: 3:34 - loss: 0.0848 - acc: 0.9729
4404
4405
  4406
4407
4408
4409
  37/267 [===>....] - ETA: 3:42 - loss: 0.0858 - acc: 0.9712
4410
  38/267 [===>....] - ETA: 3:42 - loss: 0.0863 - acc: 0.9706
39/267 [===>....] - ETA: 3:44 - loss: 0.0890 - acc: 0.9697
4411
4412
  4413
цц1ц
4415
4416
  43/267 [===>.....] - ETA: 3:46 - loss: 0.0890 - acc: 0.9698
  44/267 [===>.....] - ETA: 3:48 - loss: 0.0890 - acc: 0.9693
4417
  45/267 [====>....] - ETA: 3:48 - loss: 0.0902 - acc: 0.9693
46/267 [====>....] - ETA: 3:48 - loss: 0.0936 - acc: 0.9681
4418
ДЦ19
  47/267 [====>....] - ETA: 3:48 - loss: 0.0937 - acc: 0.9684
4420
4421 48/267 [====>.....] - ETA: 3:48 - loss: 0.0929 - acc: 0.9691
```

File - F	Run train_n	etwork_generators				
4422	49/267	[====>]	- ETA:	3:48 -	· loss	: 0.0929 - acc: 0.9687
4423		[===>]				
_						
		[====>]				
4425		[====>]				
4426	53/267	[====>]	- ETA:	3:47 -	·loss	: 0.0959 - acc: 0.9676
4427	54/267	[====>]	- ETA:	3:47 -	loss	: 0.0957 - acc: 0.9679
4428		[====>]				
4429		[====>]				
4430		[====>]				
1		[====>]				
4432		[====>]				
4433	60/267	[====>]	- ETA:	3:51 -	· loss	: 0.0923 - acc: 0.9692
4434		[====>]				
4435	_	[====>]				
	-					
		[=====>]				
1		[=====>]				
4438		[=====>]				
4439	66/267	[=====>]	- ETA:	3:49 -	· loss	: 0.0927 - acc: 0.9689
4440	67/267	[=====>]	- ETA:	3:48 -	loss	: 0.0922 - acc: 0.9692
		[=====>]				
1		[=====>]				
4443	-	[=====>]				
4444		[=====>]				
4445	72/267	[=====>]	- ETA:	3:43 -	· loss	: 0.0917 - acc: 0.9686
4446		[=====>]				
4447		[======>]				
4448	,	[=====>]				
	-	-				
4449	_	[======>]				
4450		[=====>]				
4451		[=====>]				
4452		[=====>]				
4453	80/267	[=====>]	- ETA:	3:38 -	loss	: 0.0899 - acc: 0.9688
4454		[======>]				
1		[======>]				
		[======>]				
	84/267	[======>]	- EIA:	3:35 -	Loss	: 0.0887 - acc: 0.9689
4458	85/267	[======>]	- ETA:	3:34 -	·loss	: 0.0882 - acc: 0.9691
4459	86/267	[======>]	- ETA:	3:33 -	· loss	: 0.0886 - acc: 0.9687
4460	87/267	[======>]	- ETA:	3:33 -	loss	: 0.0877 - acc: 0.9690
		[======>]				
		[======>]				
4463		[======>]				
4464	-	[======>]				
4465		[======>]				
4466	93/267	[======>]	- ETA:	3:27 -	· loss	: 0.0896 - acc: 0.9682
4467	94/267	[======>]	- ETA:	3:26 -	loss	: 0.0897 - acc: 0.9680
4468		[======>]				
		[=======>]				
		[======>]				
		[=======>]				
		[======>]				
4473	100/267	[======>]	- ETA:	3:22 -	loss	: 0.0926 - acc: 0.9670
4474	101/267	[======>]	- ETA:	3:21 -	loss	: 0.0926 - acc: 0.9670
		[======>]				
4476	103/267	[=======>]	- ETA:	3:19 -	loss	: 0.0926 - acc: 0.9670
		[======>]				
		[=======>]				
		[=======>]				
		[======>]				
		[======>]				
4482	109/267	[=======>]	- ETA:	3:14 -	· loss	: 0.0908 - acc: 0.9676
4483	110/267	[======>]	- ETA:	3:13 -	loss	: 0.0903 - acc: 0.9678
		[=======>]				
		[=======>]				
		[=======>]				
		[=======>]				
4488	115/267	[======>]	- ETA:	3:08 -	Loss	: 0.0902 - acc: 0.9679
4489	116/267	[=======>]	- ETA:	3:07 -	· loss	: 0.0897 - acc: 0.9682
		[=======>]				
		[=======>]				
		[=======>]				
4423	121/207	[========>]	ETA:	2.02	1	. 0.0093 acc. 0.9000
		[=======>]				
		[=======>]				
		[=======>]				
4497	124/267	[======>]	- ETA:	2:59 -	· loss	: 0.0891 - acc: 0.9682
4498	125/267	[=======>]	- ETA:	2:58 -	loss	: 0.0889 - acc: 0.9682
L						

```
4499 126/267 [========>.....] - ETA: 2:57 - loss: 0.0883 - acc: 0.9684
4502 129/267 [========>.....] - ETA: 2:54 - loss: 0.0885 - acc: 0.9683
4505 132/267 [========>.....] - ETA: 2:51 - loss: 0.0875 - acc: 0.9686
4522 149/267 [==========>-.....] - ETA: 2:39 - loss: 0.0839 - acc: 0.9703
4525 152/267 [==========>.....] - ETA: 2:35 - loss: 0.0831 - acc: 0.9708
4529 156/267 [==========>.....] - ETA: 2:30 - loss: 0.0835 - acc: 0.9710
4532 159/267 [==========>.....] - ETA: 2:26 - loss: 0.0827 - acc: 0.9713
4536 163/267 [=============>.....] - ETA: 2:21 - loss: 0.0828 - acc: 0.9716
4543 170/267 [============>....] - ETA: 2:12 - loss: 0.0816 - acc: 0.9721
4550 177/267 [==========>>.....] - ETA: 2:02 - loss: 0.0848 - acc: 0.9713
4557 184/267 [===============>.....] - ETA: 1:53 - loss: 0.0862 - acc: 0.9711
4564 191/267 [===============>......] - ETA: 1:44 - loss: 0.0859 - acc: 0.9712
```

```
4388 - val_acc: 0.8874
4641 Epoch 18/19
Ц6Ц2
1/267 [.....] - ETA: 2:04 - loss: 0.0628 - acc: 0.9500
4643
4644
4645
4646
4647
6/267 [.....] - ETA: 1:58 - loss: 0.0513 - acc: 0.9889
7/267 [.....] - ETA: 1:57 - loss: 0.0500 - acc: 0.9881
4648
4649
8/267 [.....] - ETA: 1:57 - loss: 0.0469 - acc: 0.9875
4650
9/267 [>.....] - ETA: 1:56 - loss: 0.0499 - acc: 0.9852
4651
```

File - R	un train_n	etwork_generators				
4652	10/267	[>]	- FTA:	1:56 -	1055	· 0 0492 - acc · 0 9850
1						
		[>]				
		[>]				
4655	13/267	[>]	- ETA:	1:54 -	·loss	: 0.0512 - acc: 0.9833
4656	14/267	[>]	- ETA:	1:54 -	·loss	: 0.0524 - acc: 0.9821
4657	15/267	[>]	- ETA:	2:03 -	loss	: 0.0503 - acc: 0.9822
4658		[>]				
4659		[>				
	17/207	[]	- EIA.	2.34 -	. 1022	. 0.0400 - acc. 0.9033
4660		[=>]				
4661	19/267	[=>]	- ETA:	2:55 -	·loss	: 0.0471 - acc: 0.9833
4662	20/267	[=>]	- ETA:	3:04 -	loss	: 0.0451 - acc: 0.9842
4663	21/267	[=>]	- FTA:	3:09 -	1055	: 0.0441 - acc: 0.9841
4664		[=>]				
		[=>]				
4665						
1		[=>]				
4667		[=>]				
4668		[=>]				
4669	27/267	[==>]	- ETA:	3:39 -	loss	: 0.0410 - acc: 0.9852
4670		[==>]				
		[==>]				
l l		[==>]				
4673		[==>]				
4674	32/267	[==>]	- ETA:	3:54 -	·loss	: 0.0412 - acc: 0.9849
4675		[==>]				
		[==>]				
4677		[==>]				
	-	-				
4678		[===>]				
4679		[===>]				
4680		[===>]				
		[===>]				
4682	40/267	[===>]	- ETA:	4:05 -	· loss	: 0.0418 - acc: 0.9842
4683	41/267	[===>]	- ETA:	4:06 -	loss	: 0.0434 - acc: 0.9841
4684	42/267	[===>]	- FTA:	4:07 -	1055	: 0.0427 - acc: 0.9845
4685		[===>]				
4686		[===>]				
4687		[====>]				
4688	46/267	[====>]	- ETA:	4:09 -	· loss	: 0.0440 - acc: 0.9844
4689	47/267	[====>]	- ETA:	4:10 -	· loss	: 0.0443 - acc: 0.9840
4690	48/267	[====>]	- ETA:	4:10 -	loss	: 0.0435 - acc: 0.9844
4691		[====>]				
4692		[===>]				
4693	51/26/	[===>]	- EIA:	4:10 -	. 1022	1. 0.0454 - acc: 0.9837
		[===>]				
4695		[====>]				
4696	54/267	[====>]	- ETA:	4:10 -	· loss	: 0.0456 - acc: 0.9840
4697	55/267	[====>]	- ETA:	4:10 -	· loss	: 0.0459 - acc: 0.9839
4698	56/267	[====>]	- ETA:	4:10 -	loss	: 0.0515 - acc: 0.9833
4699		[====>]				
4700		[====>]				
4701		[====>]				
4702		[====>]				
4703		[====>]				
4704		[====>]				
4705	63/267	[=====>]	- ETA:	4:07 -	loss	: 0.0523 - acc: 0.9831
4706		[=====>]				
4707		[=====>]				
4708		[=====>]				
4709		[=====>]				
	60/201	[	_ ETA.	11.00	. 1	. 0.0021   acc. 0.0000
4710		[=====>]				
4711		[=====>]				
4712		[=====>]				
4713	71/267	[=====>]	- ETA:	4:03 -	loss	: 0.0527 - acc: 0.9833
4714	72/267	[=====>]	- ETA:	4:02 -	loss	: 0.0525 - acc: 0.9836
4715	73/267	[=====>]	- ETA:	4:01 -	loss	: 0.0519 - acc: 0.9838
4716		[======>]				
4717		[======>]				
4718	10/26/	[======>]	- EIA:	3:59 -	LOSS	: ש.שסבט – acc: ש.אאלא
4719	77/267	[=====>]	- ETA:	3:59 -	loss	: 0.0523 - acc: 0.9835
4720		[=====>]				
4721		[=====>]				
4722		[=====>]				
4723		[======>]				
	82/267	[======>]	- FTA:	3 · 5/1 -	1055	· 0 0526 - acc · 0 9833
4725						
		[======>]				
4726		[======>]				
4727		[======>]				
4728	86/267	[=====>]	- ETA:	3:51 -	loss	: 0.0516 - acc: 0.9837

File - F	Run train_n	etwork_generators						
4729	87/267	[======>]	-	ETA:	3:50 -	-	loss:	0.0523 - acc: 0.9837
		[======>]						
4731	89/267	[======>]	_	ETA:	3:48 -	_	loss:	0.0521 - acc: 0.9837
		[======>]						
<b>Д733</b>	91/267	[=======>]	_	FTA:	3·48 -	_	1055.	0.0522 - acc: 0.9837
		[=======>]						
		[=======>]						
		[=======>]						
		[======>]						
		[======>]						
		[======>]						
4740	98/267	[======>]	_	ETA:	3:42 -	-	loss:	0.0524 - acc: 0.9837
		[======>]						
		[=======>]						
4743	101/267	[======>]	_	ETA:	3:39 -	-	loss:	0.0533 - acc: 0.9835
4744	102/267	[=======>]	_	ETA:	3:38 -	-	loss:	0.0531 - acc: 0.9835
4745	103/267	[======>]	_	ETA:	3:36 -	-	loss:	0.0540 - acc: 0.9833
4746	104/267	[======>]	_	ETA:	3:35 -	-	loss:	0.0537 - acc: 0.9835
		[======>]						
		[======>]						
4749	107/267	[========>]	_	ETA:	3:32 -	_	loss:	0.0554 - acc: 0.9829
		[========>]						
4751	109/267	[=======>]	_	ETA:	3:30 -	_	loss:	0.0546 - acc: 0.9832
		[=======>]						
		[=========>]						
1757	112/207	[========>]	_	ETA.	3.20	_	loss.	0.0007 acc. 0.9032
11756	11/1/267	[=======>]	_	ETA:	3.70 .		1055.	0.0009 - acc. 0.9000
		[=======>						
		[=======>]						
		[======>]						
		[=======>]						
4760	118/267	[=======>]	_	ETA:	3:19 -	-	loss:	0.0556 - acc: 0.9831
		[======>]						
		[=======>]						
4763	121/267	[======>]	-	ETA:	3:16 -	-	loss:	0.0563 - acc: 0.9828
4764	122/267	[=======>]	_	ETA:	3:14 -	-	loss:	0.0560 - acc: 0.9829
4765	123/267	[=======>]	_	ETA:	3:13 -	-	loss:	0.0556 - acc: 0.9831
4766	124/267	[=======>]	_	ETA:	3:12 -	-	loss:	0.0555 - acc: 0.9831
		[=======>]						
		[=========>]						
4769	127/267	[=========>]	_	ETA:	3:08 -	_	loss:	0.0548 - acc: 0.9835
		[========>]						
		[=========>]						
		[=========>]						
<u>д773</u>	131/267	[=========>]	_	FTA:	3.03 -	_	1055.	0.0512 acc: 0.9836
4774	132/267	[=========>]	_	FTA:	3.02 -	_	1055.	0.0544 - acc: 0.9835
		[=========>]						
		[======================================						
		[======================================						
		[======================================						
11770	130/207	[		ETA.	2.57		1055.	0.0539 - acc. 0.9030
		[========>]						
		[========>]						
		[========>]						
		[========>]						
4783	141/267	[========>]	_	EIA:	2:51 -	-	LOSS:	บ.พวงว – acc: พ.yชงว
		[=======>,]						
		[========>]						
		[=======>]						
		[========>]						
4788	146/267	[======>]	-	ETA:	2:44 -	-	Loss:	0.0528 - acc: 0.9836
		[======>]						
		[========>]						
		[=======>]						
4792	150/267	[=======>]	-	ETA:	2:39 -	-	loss:	0.0526 - acc: 0.9836
4793	151/267	[======>]	_	ETA:	2:38 -	-	loss:	0.0524 - acc: 0.9837
4794	152/267	[======>]	_	ETA:	2:37 -	-	loss:	0.0523 - acc: 0.9837
4795	153/267	[======================================	_	ETA:	2:35 -	-	loss:	0.0527 - acc: 0.9837
		[======================================						
		[======================================						
		[======================================						
		[======================================						
		[======================================						
<u>д</u> 801	159/267	[======================================	_	FTA.	2:27 -	_	1055.	0.0527 - acc: 0.9835
		[======================================						
1002	161/267	[======================================	_	ETV.	2.20	_	lnee.	0.0020 acc. 0.0034
ווטאון	162/267	[======================================	_	FTA.	2.20	_	lnee.	0.0020 acc. 0.9004 0.0525 - acc. 0.9833
11005	162/20/	[	_	ETA.	2.23		1055.	0.0020 acc. 0.7033
4805	103/267	[======================================	_	EIA:	2.22	-	LUSS:	0.0023 - acc: 0.9834

```
4806 164/267 [===========>....] - ETA: 2:21 - loss: 0.0529 - acc: 0.9832
4812 170/267 [============>....] - ETA: 2:13 - loss: 0.0527 - acc: 0.9832
4836 194/267 [=================>......] - ETA: 1:41 - loss: 0.0516 - acc: 0.9832
```

```
2370 - val_acc: 0.9128
4910 Epoch 19/19
4911
4912
     1/267 [.....] - ETA: 2:09 - loss: 0.0162 - acc: 1.0000
     4913
4914
     4915
4916
4917
4918
     8/267 [.....] - ETA: 1:55 - loss: 0.0376 - acc: 0.9937
4919

      8/267 [...
      ] - ETA: 1:55 - Loss: 0.0376 - acc: 0.9937

      9/267 [>...
      ] - ETA: 1:55 - Loss: 0.0378 - acc: 0.9926

      10/267 [>...
      ] - ETA: 1:54 - Loss: 0.0398 - acc: 0.9917

      11/267 [>...
      ] - ETA: 1:54 - Loss: 0.0539 - acc: 0.9894

      12/267 [>...
      ] - ETA: 1:54 - Loss: 0.0538 - acc: 0.9875

      13/267 [>...
      ] - ETA: 1:53 - Loss: 0.0521 - acc: 0.9872

      14/267 [>...
      ] - ETA: 1:56 - Loss: 0.0491 - acc: 0.9881

4920
4921
4922
4923
4924
4925
    15/267 [>.....] - ETA: 1:56 - loss: 0.0579 - acc: 0.9867
4926
    16/267 [>.....] - ETA: 2:02 - loss: 0.0616 - acc: 0.9844
17/267 [>.....] - ETA: 2:08 - loss: 0.0591 - acc: 0.9853
4927
4928
    4929
4930
4931
4932
4933
    22/267 [=>.....] - ETA: 2:28 - loss: 0.0622 - acc: 0.9826
    23/267 [=>......] - ETA: 2:31 - loss: 0.0599 - acc: 0.9833 24/267 [=>.......] - ETA: 2:35 - loss: 0.0590 - acc: 0.9840
4934
4935
    25/267 [=>......] - ETA: 2:35 - L055: 0.0590 - aCC: 0.9840
26/267 [=>......] - ETA: 2:41 - L055: 0.0586 - acc: 0.9846
27/267 [==>.....] - ETA: 2:42 - L055: 0.0571 - acc: 0.9852
28/267 [==>.....] - ETA: 2:44 - L055: 0.0557 - acc: 0.9852
4936
4937
4938
4939
4940
    29/267 [==>.....] - ETA: 2:46 - loss: 0.0544 - acc: 0.9862
    30/267 [==>....] - ETA: 2:50 - loss: 0.0543 - acc: 0.9861
31/267 [==>....] - ETA: 2:52 - loss: 0.0545 - acc: 0.9855
4941
4942

      31/207 [==>
      ] - ETA: 2:52 - LOSS: 0.0545 - acc: 0.9855

      32/267 [==>
      ] - ETA: 2:53 - LOSS: 0.0536 - acc: 0.9854

      33/267 [==>
      ] - ETA: 2:54 - LOSS: 0.0524 - acc: 0.9859

      34/267 [==>
      ] - ETA: 2:55 - LOSS: 0.0514 - acc: 0.9863

      35/267 [==>
      ] - ETA: 2:57 - LOSS: 0.0507 - acc: 0.9867

      36/267 [==>
      ] - ETA: 2:58 - LOSS: 0.0508 - acc: 0.9867

4943
4944
4945
4946
4947
    37/267 [===>....] - ETA: 3:00 - loss: 0.0497 - acc: 0.9869
38/267 [===>....] - ETA: 3:00 - loss: 0.0488 - acc: 0.9873
4948
4949
    4950
4951
4952
4953
    42/267 [===>.....] - ETA: 3:01 - loss: 0.0478 - acc: 0.9877
    43/267 [===>.....] - ETA: 3:00 - loss: 0.0487 - acc: 0.9872
4954
    44/267 [===>....] - ETA: 3:00 - loss: 0.0481 - acc: 0.9875
45/267 [===>....] - ETA: 3:01 - loss: 0.0474 - acc: 0.9878
4955
4956
    46/267 [====>.....] - ETA: 3:01 - loss: 0.0470 - acc: 0.9877
4957
    47/267 [===>..... ] - ETA: 3:01 - loss: 0.0461 - acc: 0.9879
4958
```

File - F	tun train_n	etwork_generators								
4959	48/267	[====>]	_	FTA:	3 . 00	_	1055.	0 0453 -	acc.	0 9882
4960							_			
		[====>								
4961		[====>]								
4962	51/267	[====>]	-	ETA:	2:59	-	loss:	0.0478 -	acc:	0.9876
4963	52/267	[====>]	-	ETA:	2:59	-	loss:	0.0484 -	acc:	0.9875
4964		[====>]								
4965		[====>]								
	55/207	[=====>]	_	ETA.	2.59	_	1055.	0.0475	300:	0.2077
4966										
4967		[=====>]								
4968		[====>]								
4969	58/267	[====>]	-	ETA:	2:57	-	loss:	0.0453 -	acc:	0.9882
4970		[=====>]								
4971		[====>]								
4972		[=====>]								
4973		[=====>]								
4974	63/267	[=====>]	-	ETA:	2:56	-	loss:	0.0465 -	acc:	0.9881
4975	64/267	[=====>]	_	ETA:	2:55	-	loss:	0.0461 -	acc:	0.9880
4976		[=====>]								
4977		[=====>]								
4978		[=====>]								
4979		[=====>]								
4980	69/267	[=====>]	-	ETA:	2:53	-	loss:	0.0447 -	acc:	0.9884
4981		[=====>]								
4982		[=====>]								
4983		[======>]								
4984		[=====>]								
4985		[=====>]								
4986	75/267	[=====>]	-	ETA:	2:50	-	loss:	0.0440 -	acc:	0.9887
4987		[======>]								
4988		[======>]								
4989										
		[======>]								
4990		[======>]								
4991		[=====>]								
4992	81/267	[======>]	-	ETA:	2:47	-	loss:	0.0443 -	acc:	0.9883
4993		[======>]								
4994		[======>]								
4995		[======>]								
4996		[======>]								
4997		[======>]								
4998		[======>]								
4999		[======>]								
5000	89/267	[=======>]	_	FTA.	2 · 41	_	1055	Θ Θ457 -	acc.	0 9875
	02/20/	[	-	ETA.	2.41	_	1000	0.0407	acc.	0.0076
5001		[======>]								
5002		[======>]								
5003		[======>]								
5004	93/267	[======>]	-	ETA:	2:38	-	loss:	0.0449 -	acc:	0.9876
5005	94/267	[======>]	_	ETA:	2:38	_	loss:	0.0447 -	acc:	0.9874
		[=======>]								
5007		[======>]								
		[======>]								
5009		[======>]								
5010	99/267	[======>]	-	ETA:	2:35	-	loss:	0.0450 -	acc:	0.9867
5011	100/267	[=======>]	-	ETA:	2:34	-	loss:	0.0448 -	acc:	0.9868
		[======>]								
		[=======>]								
		[=======>]								
		[=======>]								
		[======>]								
		[======>]								
5018	107/267	[=======>]	_	ETA:	2:28	_	loss:	0.0460 -	acc:	0.9871
		[========>]								
1		[=======>]								
		[=======>]								
		[======>]								
5023	112/267	[=======>]	-	ETA:	2:24	-	loss:	0.0449 -	acc:	0.9872
		[========>]								
		[=======>]								
E025	115/207	[	-	ETA.	2.22	_	1000	0.0449 -	acc.	0.0073
		[======>]								
		[=======>]								
5028	117/267	[======================================	-	ETA:	2:20	-	loss:	0.0446 -	acc:	0.9872
		[========>]								
		[========>]								
5021	120/207	[========>]	_	ETA.	2.10	_	1055.	0.0401	300:	0 0872
		[=======>								
		[=======>]								
		[=======>]								
5035	124/267	[========>]	_	ETA:	2:14	_	loss:	0.0442 -	acc:	0.9874
	,,									<del></del>

File - I	Run train_n	etwork_generators						
5036	125/267	[======================================	_	ETA:	2:13 -	-	loss:	0.0440 - acc: 0.9875
		[=========>]						
		[=======>]						
		[=======>]						
5040	129/267	[=======>]	-	ETA:	2:10 -	- '	loss:	0.0442 - acc: 0.9876
		[========>]						
		[=========>]						
		[=======>]						
5044	133/267	[======>]	-	ETA:	2:07 -	- '	loss:	0.0462 - acc: 0.9875
		[=======>]						
		[=========>]						
		[======================================						
		[=======>]						
5049	138/267	[======================================	-	ETA:	2:05 -	- '	loss:	0.0465 - acc: 0.9872
5050	139/267	[=======>]	-	ETA:	2:04 -	- '	loss:	0.0463 - acc: 0.9873
		[======================================						
5052	141/267	[==========>]	_	FTA.	2.02 -		1000.	0 0061 - acc: 0 9872
E0E2	141/207	[=========>]	'	ETA.	2.02		1	0.0401 acc. 0.9072
		[======>]						
		[========>]						
5056	145/267	[=======>]	-	ETA:	1:59 -	- '	loss:	0.0485 - acc: 0.9864
5057	146/267	[======================================	<b>-</b>	ETA.	1:58 -		loss	0.0482 - acc: 0.9865
		[======================================						
		[======>]						
		[=======>]						
5061	150/267	[======================================	-	ETA:	1:54 -	- '	loss:	0.0491 - acc: 0.9862
		[========>]						
		[======================================						
1		[======================================						
		[=======>]						
		[========>]						
		[======================================						
		[======================================						
5069	158/267	[======================================	-	ETA:	1:47 -	- '	loss:	0.0502 - acc: 0.9860
		[=========>]						
		[======================================						
5072	161/267	[======================================	_	ETA.	1 · //// -		1055.	0.0000 acc: 0.0000
		[======================================						
		[======================================						
		[======>]						
5076	165/267	[=====>]	-	ETA:	1:41 -	- '	loss:	0.0503 - acc: 0.9860
5077	166/267	[======>]	-	ETA:	1:40 -	- '	loss:	0.0503 - acc: 0.9859
		[=======>]						
		[======================================						
5080	169/267	[======================================	_	FTA·	1 · 37 -	_	1055.	0 0502 - acc: 0 9860
		[======================================						
E001	171/267	[============>]	_ :	ETA:	1.25		1055.	0.0000 400. 0.0001
1	-	[======>]						
		[======================================						
		[======================================						
5086	175/267	[======>]	-	ETA:	1:31 -	- '	loss:	0.0496 - acc: 0.9860
		[========>]						
		[======================================						
		[======================================						
		[======================================						
		[======================================						
		[======================================						
		[======================================						
		[======>]						
		[======>]						
5096	185/267	[======>]	- 1	ETA:	1:22 -	- '	loss:	0.0503 - acc: 0.9856
		[======================================						
		[======================================						
		[======================================						
		[======>]						
		[======================================						
		[======>]						
		[======>]						
5104	193/267	[======>]	-	ETA:	1:14 -	- '	loss:	0.0501 - acc: 0.9853
		[======================================						
		[======================================						
5107	196/267	[======>]	_ i	ETA.	1:11 -		loss	0.0495 - acc: 0.9855
		[======================================						
		[======>]						
		[======>]						
		[======>]						
5112	201/267	[======>]	-	ETA:	1:06 -	- '	LOSS:	0.0500 - acc: 0.9852

```
2808 - val_acc: 0.9250
5179 Trained model!
5180 Model: "sequential"
5181
5182 Layer (type)
  Output Shape
    Param #
5184 conv2d (Conv2D)
  (None, 124, 124, 32)
    832
5185 ______
5186 max_pooling2d (MaxPooling2D) (None, 41, 41, 32)
5187
5188 conv2d_1 (Conv2D)
  (None, 37, 37, 64)
    51264
```

90 max_pooling2d	 _1 (MaxPooling2 (	None,	18, 18, 64)	Θ	
91 92 conv2d_2 (Con	v2D) (	None,	14, 14, 56)	89656	
93	 _2 (MaxPooling2 (				-
95 96 flatten (Flat		None			
97	out) (	None,	2744)	 0	
98 dropout (brop	(				<del></del>
00 dense (Dense) 01	( opout) (	None,	70) 	192150 	<del></del>
92	opout) ( 	None,	70) 	0	
04 dense_1 (Dens	e) (				<b>:=</b>
LO Saved model!	ams: 334,186 params: 0				
12	k 7750.8856389522		conas		
l3 Process finis L4	hed with exit cod	e 0			