Here is the output from Google Cloud Machine Learning Engine executed on November 9th, 2017.
E Using TensorFlow backend.
I successfully opened CUDA library libcublas.so.8.0 locally
I successfully opened CUDA library libcudnn.so.5 locally
I successfully opened CUDA library libcufft.so.8.0 locally
I successfully opened CUDA library libcuda.so.1 locally
I successfully opened CUDA library libcurand.so.8.0 locally
W The TensorFlow library wasn't compiled to use AVX2 instructions, but these are available on your machine and could speed up CPU computations.
W The TensorFlow library wasn't compiled to use FMA instructions, but these are available on your machine and could speed up CPU computations.
I successful NUMA node read from SysFS had negative value (-1), but there must be at least one NUMA node, so returning NUMA node zero
I Found device 0 with properties:
E name: Tesla K80
E major: 3 minor: 7 memoryClockRate (GHz) 0.8235
E pciBusID 0000:00:04.0
E Total memory: 11.17GiB
E Free memory: 11.11GiB
I DMA: 0
I 0: Y
I Creating TensorFlow device (/gpu:0) -> (device: 0, name: Tesla K80, pci bus id: 0000:00:04.0)
I Creating TensorFlow device (/gpu:0) -> (device: 0, name: Tesla K80, pci bus id: 0000:00:04.0)
I Using logs_path located at gs://cnninput_dataset/cnncopy_train_20171109_022628/logs/2017-11-09T07:26:51.959549
Epoch 1/20
 1/94 [..............................] - ETA: 2:51 - loss: 1.4025 - acc: 0.2188
 2/94 [..............................] - ETA: 1:31 - loss: 1.3896 - acc: 0.2500
 3/94 [..............................] - ETA: 1:04 - loss: 1.3566 - acc: 0.2917
 4/94 [>.............................] - ETA: 51s - loss: 1.4008 - acc: 0.2734
 5/94 [>.............................] - ETA: 46s - loss: 1.4005 - acc: 0.2750
 6/94 [>.............................] - ETA: 45s - loss: 1.4118 - acc: 0.2500
 7/94 [=>............................] - ETA: 44s - loss: 1.4092 - acc: 0.2500
 8/94 [=>............................] - ETA: 43s - loss: 1.4071 - acc: 0.2500
 9/94 [=>............................] - ETA: 43s - loss: 1.4063 - acc: 0.2604
10/94 [==>...........................] - ETA: 42s - loss: 1.4048 - acc: 0.2531
11/94 [==>...........................] - ETA: 41s - loss: 1.3998 - acc: 0.2614
12/94 [==>...........................] - ETA: 41s - loss: 1.4031 - acc: 0.2578
13/94 [===>..........................] - ETA: 40s - loss: 1.4018 - acc: 0.2644
14/94 [===>..........................] - ETA: 39s - loss: 1.3994 - acc: 0.2723
15/94 [===>..........................] - ETA: 39s - loss: 1.3985 - acc: 0.2729
16/94 [====>.........................] - ETA: 38s - loss: 1.3972 - acc: 0.2773
17/94 [====>.........................] - ETA: 38s - loss: 1.3968 - acc: 0.2757
18/94 [====>.........................] - ETA: 37s - loss: 1.3973 - acc: 0.2691
19/94 [=====>........................] - ETA: 37s - loss: 1.3966 - acc: 0.2671
20/94 [=====>........................] - ETA: 36s - loss: 1.3944 - acc: 0.2694
21/94 [=====>........................] - ETA: 35s - loss: 1.3923 - acc: 0.2714
22/94 [=====>........................] - ETA: 35s - loss: 1.3947 - acc: 0.2676
23/94 [======>.......................] - ETA: 34s - loss: 1.3939 - acc: 0.2709
24/94 [======>.......................] - ETA: 34s - loss: 1.3934 - acc: 0.2726
25/94 [======>.......................] - ETA: 33s - loss: 1.3936 - acc: 0.2680
26/94 [=======>......................] - ETA: 33s - loss: 1.3926 - acc: 0.2709
27/94 [=======>......................] - ETA: 32s - loss: 1.3919 - acc: 0.2690
28/94 [=======>......................] - ETA: 32s - loss: 1.3923 - acc: 0.2683
29/94 [========>.....................] - ETA: 31s - loss: 1.3920 - acc: 0.2655
30/94 [========>.....................] - ETA: 31s - loss: 1.3912 - acc: 0.2650
31/94 [========>.....................] - ETA: 30s - loss: 1.3910 - acc: 0.2665
32/94 [=========>....................] - ETA: 30s - loss: 1.3908 - acc: 0.2680
33/94 [=========>....................] - ETA: 29s - loss: 1.3905 - acc: 0.2674
34/94 [=========>....................] - ETA: 29s - loss: 1.3910 - acc: 0.2651
35/94 [==========>...................] - ETA: 29s - loss: 1.3909 - acc: 0.2646
36/94 [==========>...................] - ETA: 28s - loss: 1.3908 - acc: 0.2660
37/94 [==========>...................] - ETA: 28s - loss: 1.3905 - acc: 0.2672
38/94 [===========>..................] - ETA: 27s - loss: 1.3901 - acc: 0.2676
39/94 [===========>..................] - ETA: 27s - loss: 1.3900 - acc: 0.2695
40/94 [===========>..................] - ETA: 26s - loss: 1.3897 - acc: 0.2698
41/94 [===========>..................] - ETA: 26s - loss: 1.3892 - acc: 0.2701
42/94 [============>.................] - ETA: 25s - loss: 1.3885 - acc: 0.2711
43/94 [============>.................] - ETA: 25s - loss: 1.3887 - acc: 0.2728
44/94 [=============>................] - ETA: 24s - loss: 1.3878 - acc: 0.2751
45/94 [=============>................] - ETA: 24s - loss: 1.3864 - acc: 0.2767
46/94 [=============>................] - ETA: 23s - loss: 1.3869 - acc: 0.2747
47/94 [==============>...............] - ETA: 23s - loss: 1.3866 - acc: 0.2775
48/94 [==============>...............] - ETA: 22s - loss: 1.3867 - acc: 0.2756
49/94 [==============>...............] - ETA: 22s - loss: 1.3862 - acc: 0.2758
50/94 [==============>...............] - ETA: 21s - loss: 1.3869 - acc: 0.2740
51/94 [===============>..............] - ETA: 21s - loss: 1.3871 - acc: 0.2735
52/94 [===============>..............] - ETA: 20s - loss: 1.3871 - acc: 0.2743
53/94 [===============>..............] - ETA: 20s - loss: 1.3867 - acc: 0.2779
54/94 [================>.............] - ETA: 19s - loss: 1.3867 - acc: 0.2780
55/94 [================>.............] - ETA: 19s - loss: 1.3862 - acc: 0.2798
56/94 [================>.............] - ETA: 18s - loss: 1.3862 - acc: 0.2792
57/94 [=================>............] - ETA: 18s - loss: 1.3858 - acc: 0.2804
58/94 [=================>............] - ETA: 17s - loss: 1.3853 - acc: 0.2831
59/94 [=================>............] - ETA: 17s - loss: 1.3853 - acc: 0.2804
60/94 [==================>...........] - ETA: 16s - loss: 1.3848 - acc: 0.2825
61/94 [==================>...........] - ETA: 16s - loss: 1.3847 - acc: 0.2835
62/94 [==================>...........] - ETA: 15s - loss: 1.3838 - acc: 0.2845
63/94 [===================>..........] - ETA: 15s - loss: 1.3838 - acc: 0.2849
64/94 [===================>..........] - ETA: 14s - loss: 1.3835 - acc: 0.2853
65/94 [===================>..........] - ETA: 14s - loss: 1.3835 - acc: 0.2862
66/94 [====================>.........] - ETA: 13s - loss: 1.3832 - acc: 0.2843
67/94 [====================>.........] - ETA: 13s - loss: 1.3830 - acc: 0.2838
68/94 [====================>.........] - ETA: 12s - loss: 1.3829 - acc: 0.2833
69/94 [=====================>........] - ETA: 12s - loss: 1.3830 - acc: 0.2819
70/94 [=====================>........] - ETA: 12s - loss: 1.3833 - acc: 0.2810
71/94 [=====================>........] - ETA: 11s - loss: 1.3830 - acc: 0.2819
72/94 [======================>.......] - ETA: 11s - loss: 1.3822 - acc: 0.2845
73/94 [======================>.......] - ETA: 10s - loss: 1.3810 - acc: 0.2853
74/94 [======================>.......] - ETA: 10s - loss: 1.3813 - acc: 0.2844
75/94 [=======================>......] - ETA: 9s - loss: 1.3810 - acc: 0.2847
76/94 [=======================>......] - ETA: 9s - loss: 1.3805 - acc: 0.2843
77/94 [=======================>......] - ETA: 8s - loss: 1.3804 - acc: 0.2847
78/94 [========================>.....] - ETA: 8s - loss: 1.3797 - acc: 0.2854
79/94 [========================>.....] - ETA: 7s - loss: 1.3790 - acc: 0.2865
80/94 [========================>.....] - ETA: 7s - loss: 1.3787 - acc: 0.2861
81/94 [=========================>....] - ETA: 6s - loss: 1.3777 - acc: 0.2876
82/94 [=========================>....] - ETA: 6s - loss: 1.3775 - acc: 0.2890
83/94 [=========================>....] - ETA: 5s - loss: 1.3768 - acc: 0.2897
84/94 [=========================>....] - ETA: 5s - loss: 1.3761 - acc: 0.2896
85/94 [==========================>...] - ETA: 4s - loss: 1.3761 - acc: 0.2898
86/94 [==========================>...] - ETA: 4s - loss: 1.3755 - acc: 0.2919
87/94 [==========================>...] - ETA: 3s - loss: 1.3748 - acc: 0.2932
88/94 [===========================>..] - ETA: 3s - loss: 1.3741 - acc: 0.2938
89/94 [===========================>..] - ETA: 2s - loss: 1.3737 - acc: 0.2947
90/94 [===========================>..] - ETA: 2s - loss: 1.3737 - acc: 0.2942
91/94 [============================>.] - ETA: 1s - loss: 1.3733 - acc: 0.2948
92/94 [============================>.] - ETA: 1s - loss: 1.3726 - acc: 0.2963

```
93/94 [============================>.] - ETA: 0s - loss: 1.3719 - acc: 0.2975
94/94 [============================>.] - ETA: 0s - loss: 1.3710 - acc: 0.2983
95/94 [==============================] - 192s 2s/step - loss: 1.3712 - acc: 0.2991 - val_loss: 1.3440 - val_acc: 0.3217
Epoch 2/20
 1/94 [...........................] - ETA: 15s - loss: 1.2812 - acc: 0.5312
 2/94 [...........................] - ETA: 15s - loss: 1.2861 - acc: 0.5000
 3/94 [...........................] - ETA: 14s - loss: 1.2933 - acc: 0.4375
 4/94 [>..........................] - ETA: 13s - loss: 1.2907 - acc: 0.4141
 5/94 [>..........................] - ETA: 13s - loss: 1.3040 - acc: 0.4062
 6/94 [>..........................] - ETA: 13s - loss: 1.3295 - acc: 0.3750
 7/94 [=>.........................] - ETA: 12s - loss: 1.3309 - acc: 0.3750
 8/94 [=>.........................] - ETA: 12s - loss: 1.3210 - acc: 0.3867
 9/94 [=>.........................] - ETA: 12s - loss: 1.3127 - acc: 0.3785
10/94 [==>........................] - ETA: 11s - loss: 1.3131 - acc: 0.3688
11/94 [==>........................] - ETA: 11s - loss: 1.3116 - acc: 0.3693
12/94 [==>........................] - ETA: 11s - loss: 1.3048 - acc: 0.3698
13/94 [===>.......................] - ETA: 11s - loss: 1.3051 - acc: 0.3750
14/94 [===>.......................] - ETA: 11s - loss: 1.3101 - acc: 0.3705
15/94 [===>.......................] - ETA: 12s - loss: 1.3149 - acc: 0.3604
16/94 [====>......................] - ETA: 13s - loss: 1.3105 - acc: 0.3691
17/94 [====>......................] - ETA: 14s - loss: 1.3127 - acc: 0.3658
18/94 [====>......................] - ETA: 15s - loss: 1.3196 - acc: 0.3576
19/94 [=====>.....................] - ETA: 16s - loss: 1.3164 - acc: 0.3569
20/94 [=====>.....................] - ETA: 17s - loss: 1.3168 - acc: 0.3563
21/94 [=====>.....................] - ETA: 18s - loss: 1.3185 - acc: 0.3542
22/94 [=====>.....................] - ETA: 18s - loss: 1.3201 - acc: 0.3537
23/94 [======>....................] - ETA: 19s - loss: 1.3239 - acc: 0.3519
24/94 [======>....................] - ETA: 19s - loss: 1.3231 - acc: 0.3529
25/94 [======>....................] - ETA: 19s - loss: 1.3233 - acc: 0.3550
26/94 [=======>...................] - ETA: 20s - loss: 1.3211 - acc: 0.3522
27/94 [=======>...................] - ETA: 20s - loss: 1.3255 - acc: 0.3484
28/94 [=======>...................] - ETA: 20s - loss: 1.3289 - acc: 0.3460
29/94 [========>..................] - ETA: 20s - loss: 1.3291 - acc: 0.3416
30/94 [========>..................] - ETA: 20s - loss: 1.3266 - acc: 0.3479
31/94 [========>..................] - ETA: 20s - loss: 1.3252 - acc: 0.3508
32/94 [=========>.................] - ETA: 20s - loss: 1.3233 - acc: 0.3535
33/94 [=========>.................] - ETA: 20s - loss: 1.3218 - acc: 0.3532
34/94 [=========>.................] - ETA: 20s - loss: 1.3186 - acc: 0.3575
35/94 [==========>................] - ETA: 20s - loss: 1.3187 - acc: 0.3536
36/94 [==========>................] - ETA: 20s - loss: 1.3237 - acc: 0.3498
37/94 [==========>................] - ETA: 20s - loss: 1.3223 - acc: 0.3539
38/94 [===========>...............] - ETA: 20s - loss: 1.3194 - acc: 0.3569
39/94 [===========>...............] - ETA: 20s - loss: 1.3183 - acc: 0.3542
40/94 [===========>...............] - ETA: 19s - loss: 1.3132 - acc: 0.3586
41/94 [============>..............] - ETA: 19s - loss: 1.3206 - acc: 0.3567
42/94 [============>..............] - ETA: 19s - loss: 1.3201 - acc: 0.3579
43/94 [============>..............] - ETA: 19s - loss: 1.3181 - acc: 0.3612
44/94 [=============>.............] - ETA: 19s - loss: 1.3178 - acc: 0.3629
45/94 [=============>.............] - ETA: 18s - loss: 1.3157 - acc: 0.3646
46/94 [=============>.............] - ETA: 18s - loss: 1.3162 - acc: 0.3628
47/94 [==============>............] - ETA: 18s - loss: 1.3156 - acc: 0.3617
48/94 [==============>............] - ETA: 17s - loss: 1.3155 - acc: 0.3607
49/94 [==============>............] - ETA: 17s - loss: 1.3161 - acc: 0.3610
51/94 [===============>...........] - ETA: 17s - loss: 1.3130 - acc: 0.3627
52/94 [===============>...........] - ETA: 16s - loss: 1.3134 - acc: 0.3624
53/94 [===============>...........] - ETA: 16s - loss: 1.3128 - acc: 0.3620
54/94 [================>..........] - ETA: 16s - loss: 1.3173 - acc: 0.3605
55/94 [================>..........] - ETA: 15s - loss: 1.3165 - acc: 0.3597
56/94 [================>..........] - ETA: 15s - loss: 1.3159 - acc: 0.3583
57/94 [=================>.........] - ETA: 15s - loss: 1.3159 - acc: 0.3575
58/94 [=================>.........] - ETA: 14s - loss: 1.3164 - acc: 0.3567
59/94 [=================>.........] - ETA: 14s - loss: 1.3159 - acc: 0.3575
60/94 [=================>.........] - ETA: 14s - loss: 1.3158 - acc: 0.3578
61/94 [==================>........] - ETA: 13s - loss: 1.3152 - acc: 0.3576
62/94 [==================>........] - ETA: 13s - loss: 1.3160 - acc: 0.3564
63/94 [==================>........] - ETA: 13s - loss: 1.3142 - acc: 0.3562
64/94 [===================>.......] - ETA: 12s - loss: 1.3132 - acc: 0.3569
65/94 [===================>.......] - ETA: 12s - loss: 1.3112 - acc: 0.3577
66/94 [===================>.......] - ETA: 11s - loss: 1.3109 - acc: 0.3556
67/94 [====================>......] - ETA: 11s - loss: 1.3127 - acc: 0.3540
68/94 [====================>......] - ETA: 11s - loss: 1.3129 - acc: 0.3543
69/94 [====================>......] - ETA: 10s - loss: 1.3124 - acc: 0.3528
70/94 [=====================>.....] - ETA: 10s - loss: 1.3116 - acc: 0.3540
71/94 [=====================>.....] - ETA: 9s - loss: 1.3121 - acc: 0.3526
72/94 [=====================>.....] - ETA: 9s - loss: 1.3127 - acc: 0.3494
73/94 [======================>....] - ETA: 9s - loss: 1.3123 - acc: 0.3510
74/94 [======================>....] - ETA: 8s - loss: 1.3122 - acc: 0.3497
75/94 [======================>....] - ETA: 8s - loss: 1.3134 - acc: 0.3479
76/94 [=======================>...] - ETA: 7s - loss: 1.3137 - acc: 0.3458
77/94 [=======================>...] - ETA: 7s - loss: 1.3126 - acc: 0.3468
78/94 [=======================>...] - ETA: 7s - loss: 1.3112 - acc: 0.3480
79/94 [========================>..] - ETA: 6s - loss: 1.3111 - acc: 0.3483
80/94 [========================>..] - ETA: 6s - loss: 1.3115 - acc: 0.3475
81/94 [========================>..] - ETA: 5s - loss: 1.3100 - acc: 0.3486
82/94 [=========================>.] - ETA: 5s - loss: 1.3087 - acc: 0.3497
83/94 [=========================>.] - ETA: 5s - loss: 1.3075 - acc: 0.3496
84/94 [=========================>.] - ETA: 4s - loss: 1.3076 - acc: 0.3495
85/94 [==========================>.] - ETA: 4s - loss: 1.3078 - acc: 0.3480
86/94 [==========================>.] - ETA: 3s - loss: 1.3065 - acc: 0.3479
87/94 [==========================>.] - ETA: 3s - loss: 1.3061 - acc: 0.3483
88/94 [===========================>.] - ETA: 2s - loss: 1.3055 - acc: 0.3496
89/94 [===========================>..] - ETA: 2s - loss: 1.3051 - acc: 0.3496
90/94 [===========================>..] - ETA: 2s - loss: 1.3068 - acc: 0.3478
91/94 [===========================>..] - ETA: 1s - loss: 1.3080 - acc: 0.3467
92/94 [============================>.] - ETA: 1s - loss: 1.3063 - acc: 0.3477
93/94 [============================>.] - ETA: 0s - loss: 1.3057 - acc: 0.3483
94/94 [============================>.] - ETA: 0s - loss: 1.3046 - acc: 0.3492
95/94 [==============================] - 191s 2s/step - loss: 1.3037 - acc: 0.3508 - val_loss: 1.2360 - val_acc: 0.3800
Epoch 3/20
 1/94 [...........................] - ETA: 15s - loss: 1.3007 - acc: 0.4375
 2/94 [...........................] - ETA: 15s - loss: 1.2292 - acc: 0.4375
 3/94 [...........................] - ETA: 15s - loss: 1.2295 - acc: 0.4271
 4/94 [>..........................] - ETA: 14s - loss: 1.2406 - acc: 0.3906
 5/94 [>..........................] - ETA: 13s - loss: 1.2271 - acc: 0.3812
 6/94 [>..........................] - ETA: 13s - loss: 1.2247 - acc: 0.3802
 7/94 [=>.........................] - ETA: 13s - loss: 1.2183 - acc: 0.3839
 8/94 [=>.........................] - ETA: 12s - loss: 1.2190 - acc: 0.3867
 9/94 [=>.........................] - ETA: 12s - loss: 1.2302 - acc: 0.3958
10/94 [==>........................] - ETA: 12s - loss: 1.2274 - acc: 0.3937
11/94 [==>........................] - ETA: 11s - loss: 1.2316 - acc: 0.3864
12/94 [==>........................] - ETA: 11s - loss: 1.2356 - acc: 0.3906
13/94 [===>.......................] - ETA: 11s - loss: 1.2288 - acc: 0.3942
14/94 [===>.......................] - ETA: 11s - loss: 1.2555 - acc: 0.3839
15/94 [===>.......................] - ETA: 12s - loss: 1.2673 - acc: 0.3792
16/94 [====>......................] - ETA: 13s - loss: 1.2665 - acc: 0.3789
17/94 [====>......................] - ETA: 15s - loss: 1.2650 - acc: 0.3842
```

```
18/94 [====>.......................] - ETA: 16s - loss: 1.2606 - acc: 0.3837
19/94 [=====>......................] - ETA: 17s - loss: 1.2560 - acc: 0.3849
20/94 [=====>......................] - ETA: 17s - loss: 1.2544 - acc: 0.3844
21/94 [=====>......................] - ETA: 18s - loss: 1.2544 - acc: 0.3839
22/94 [=====>......................] - ETA: 18s - loss: 1.2486 - acc: 0.3864
23/94 [======>.....................] - ETA: 19s - loss: 1.2472 - acc: 0.3859
24/94 [======>.....................] - ETA: 19s - loss: 1.2480 - acc: 0.3854
25/94 [======>.....................] - ETA: 20s - loss: 1.2542 - acc: 0.3787
26/94 [=======>....................] - ETA: 20s - loss: 1.2524 - acc: 0.3798
27/94 [=======>....................] - ETA: 20s - loss: 1.2482 - acc: 0.3785
28/94 [=======>....................] - ETA: 20s - loss: 1.2450 - acc: 0.3750
29/94 [========>...................] - ETA: 20s - loss: 1.2427 - acc: 0.3772
30/94 [========>...................] - ETA: 20s - loss: 1.2419 - acc: 0.3833
31/94 [========>...................] - ETA: 20s - loss: 1.2435 - acc: 0.3790
32/94 [=========>..................] - ETA: 20s - loss: 1.2415 - acc: 0.3789
33/94 [=========>..................] - ETA: 20s - loss: 1.2396 - acc: 0.3788
34/94 [=========>..................] - ETA: 20s - loss: 1.2383 - acc: 0.3778
35/94 [=========>..................] - ETA: 20s - loss: 1.2356 - acc: 0.3768
36/94 [==========>.................] - ETA: 20s - loss: 1.2415 - acc: 0.3741
37/94 [==========>.................] - ETA: 20s - loss: 1.2405 - acc: 0.3725
38/94 [==========>.................] - ETA: 20s - loss: 1.2384 - acc: 0.3750
39/94 [===========>................] - ETA: 20s - loss: 1.2377 - acc: 0.3758
40/94 [===========>................] - ETA: 20s - loss: 1.2381 - acc: 0.3789
41/94 [===========>................] - ETA: 19s - loss: 1.2392 - acc: 0.3788
42/94 [============>...............] - ETA: 19s - loss: 1.2407 - acc: 0.3802
43/94 [============>...............] - ETA: 19s - loss: 1.2415 - acc: 0.3808
44/94 [============>...............] - ETA: 19s - loss: 1.2408 - acc: 0.3814
45/94 [=============>..............] - ETA: 18s - loss: 1.2400 - acc: 0.3812
46/94 [=============>..............] - ETA: 18s - loss: 1.2392 - acc: 0.3784
47/94 [=============>..............] - ETA: 18s - loss: 1.2352 - acc: 0.3836
48/94 [==============>.............] - ETA: 18s - loss: 1.2343 - acc: 0.3861
49/94 [==============>.............] - ETA: 17s - loss: 1.2338 - acc: 0.3865
50/94 [==============>.............] - ETA: 17s - loss: 1.2354 - acc: 0.3862
51/94 [===============>............] - ETA: 17s - loss: 1.2324 - acc: 0.3897
52/94 [===============>............] - ETA: 16s - loss: 1.2323 - acc: 0.3882
53/94 [===============>............] - ETA: 16s - loss: 1.2330 - acc: 0.3915
54/94 [================>...........] - ETA: 16s - loss: 1.2323 - acc: 0.3889
55/94 [================>...........] - ETA: 15s - loss: 1.2344 - acc: 0.3881
56/94 [================>...........] - ETA: 15s - loss: 1.2340 - acc: 0.3895
57/94 [=================>..........] - ETA: 15s - loss: 1.2328 - acc: 0.3893
58/94 [=================>..........] - ETA: 14s - loss: 1.2308 - acc: 0.3901
59/94 [=================>..........] - ETA: 14s - loss: 1.2280 - acc: 0.3935
60/94 [==================>.........] - ETA: 14s - loss: 1.2261 - acc: 0.3932
61/94 [==================>.........] - ETA: 13s - loss: 1.2246 - acc: 0.3945
62/94 [==================>.........] - ETA: 13s - loss: 1.2274 - acc: 0.3942
63/94 [===================>........] - ETA: 13s - loss: 1.2294 - acc: 0.3924
64/94 [===================>........] - ETA: 12s - loss: 1.2307 - acc: 0.3906
65/94 [===================>........] - ETA: 12s - loss: 1.2310 - acc: 0.3904
66/94 [====================>.......] - ETA: 11s - loss: 1.2294 - acc: 0.3906
67/94 [====================>.......] - ETA: 11s - loss: 1.2279 - acc: 0.3913
68/94 [====================>.......] - ETA: 11s - loss: 1.2292 - acc: 0.3906
69/94 [=====================>......] - ETA: 10s - loss: 1.2281 - acc: 0.3913
70/94 [=====================>......] - ETA: 10s - loss: 1.2291 - acc: 0.3897
71/94 [=====================>......] - ETA: 9s - loss: 1.2307 - acc: 0.3895
72/94 [======================>.....] - ETA: 9s - loss: 1.2280 - acc: 0.3911
73/94 [======================>.....] - ETA: 9s - loss: 1.2269 - acc: 0.3908
74/94 [======================>.....] - ETA: 8s - loss: 1.2251 - acc: 0.3923
75/94 [=======================>....] - ETA: 8s - loss: 1.2265 - acc: 0.3917
76/94 [=======================>....] - ETA: 7s - loss: 1.2276 - acc: 0.3898
77/94 [=======================>....] - ETA: 7s - loss: 1.2294 - acc: 0.3872
78/94 [========================>...] - ETA: 7s - loss: 1.2282 - acc: 0.3894
79/94 [========================>...] - ETA: 6s - loss: 1.2277 - acc: 0.3892
80/94 [========================>...] - ETA: 6s - loss: 1.2275 - acc: 0.3895
81/94 [=========================>..] - ETA: 5s - loss: 1.2257 - acc: 0.3912
82/94 [=========================>..] - ETA: 5s - loss: 1.2241 - acc: 0.3914
83/94 [=========================>..] - ETA: 5s - loss: 1.2242 - acc: 0.3912
84/94 [==========================>.] - ETA: 4s - loss: 1.2232 - acc: 0.3917
85/94 [==========================>.] - ETA: 4s - loss: 1.2236 - acc: 0.3917
86/94 [==========================>.] - ETA: 3s - loss: 1.2240 - acc: 0.3907
87/94 [===========================>] - ETA: 3s - loss: 1.2240 - acc: 0.3895
88/94 [===========================>] - ETA: 2s - loss: 1.2229 - acc: 0.3893
89/94 [===========================>] - ETA: 2s - loss: 1.2219 - acc: 0.3902
90/94 [============================>] - ETA: 2s - loss: 1.2202 - acc: 0.3918
91/94 [============================>] - ETA: 1s - loss: 1.2204 - acc: 0.3916
92/94 [============================>] - ETA: 1s - loss: 1.2192 - acc: 0.3917
93/94 [============================>] - ETA: 0s - loss: 1.2203 - acc: 0.3912
94/94 [============================>] - ETA: 0s - loss: 1.2219 - acc: 0.3904
95/94 [=============================] - 188s 2s/step - loss: 1.2214 - acc: 0.3915 - val_loss: 1.1272 - val_acc: 0.4431
Epoch 4/20
 1/94 [..............................] - ETA: 16s - loss: 1.0405 - acc: 0.5000
 2/94 [..............................] - ETA: 15s - loss: 1.0678 - acc: 0.5312
 3/94 [..............................] - ETA: 14s - loss: 1.0883 - acc: 0.4896
 4/94 [>.............................] - ETA: 14s - loss: 1.0864 - acc: 0.4609
 5/94 [>.............................] - ETA: 13s - loss: 1.0686 - acc: 0.4625
 6/94 [>.............................] - ETA: 13s - loss: 1.0807 - acc: 0.4635
 7/94 [=>............................] - ETA: 12s - loss: 1.0831 - acc: 0.4688
 8/94 [=>............................] - ETA: 12s - loss: 1.0931 - acc: 0.4531
 9/94 [=>............................] - ETA: 12s - loss: 1.1091 - acc: 0.4514
10/94 [==>...........................] - ETA: 11s - loss: 1.0966 - acc: 0.4594
11/94 [==>...........................] - ETA: 11s - loss: 1.0954 - acc: 0.4517
12/94 [==>...........................] - ETA: 11s - loss: 1.0997 - acc: 0.4375
13/94 [===>..........................] - ETA: 11s - loss: 1.0926 - acc: 0.4423
14/94 [===>..........................] - ETA: 10s - loss: 1.0966 - acc: 0.4327
15/94 [===>..........................] - ETA: 11s - loss: 1.0887 - acc: 0.4330
16/94 [====>.........................] - ETA: 13s - loss: 1.0804 - acc: 0.4411
17/94 [====>.........................] - ETA: 14s - loss: 1.0888 - acc: 0.4409
18/94 [====>.........................] - ETA: 15s - loss: 1.0871 - acc: 0.4407
19/94 [=====>........................] - ETA: 16s - loss: 1.0821 - acc: 0.4471
20/94 [=====>........................] - ETA: 17s - loss: 1.0871 - acc: 0.4435
21/94 [=====>........................] - ETA: 17s - loss: 1.0870 - acc: 0.4417
22/94 [=====>........................] - ETA: 18s - loss: 1.0884 - acc: 0.4373
23/94 [======>.......................] - ETA: 18s - loss: 1.0873 - acc: 0.4332
24/94 [======>.......................] - ETA: 19s - loss: 1.0986 - acc: 0.4230
25/94 [======>.......................] - ETA: 19s - loss: 1.1035 - acc: 0.4223
26/94 [=======>......................] - ETA: 19s - loss: 1.1002 - acc: 0.4277
27/94 [=======>......................] - ETA: 20s - loss: 1.0980 - acc: 0.4292
28/94 [=======>......................] - ETA: 20s - loss: 1.0948 - acc: 0.4340
29/94 [========>.....................] - ETA: 20s - loss: 1.0880 - acc: 0.4406
30/94 [========>.....................] - ETA: 20s - loss: 1.0871 - acc: 0.4384
31/94 [========>.....................] - ETA: 20s - loss: 1.0859 - acc: 0.4394
32/94 [=========>....................] - ETA: 20s - loss: 1.0823 - acc: 0.4393
33/94 [=========>....................] - ETA: 20s - loss: 1.0814 - acc: 0.4383
34/94 [=========>....................] - ETA: 20s - loss: 1.0887 - acc: 0.4318
35/94 [=========>....................] - ETA: 20s - loss: 1.0990 - acc: 0.4293
36/94 [==========>...................] - ETA: 20s - loss: 1.1002 - acc: 0.4304
37/94 [==========>...................] - ETA: 20s - loss: 1.0999 - acc: 0.4298
38/94 [==========>...................] - ETA: 19s - loss: 1.1019 - acc: 0.4300
```

```
39/94 [=========>...............] - ETA: 19s - loss: 1.0984 - acc: 0.4302     1/94 [..........................] - ETA: 15s - loss: 0.9727 - acc: 0.5625
40/94 [=========>...............] - ETA: 19s - loss: 1.0950 - acc: 0.4335     2/94 [..........................] - ETA: 15s - loss: 0.9740 - acc: 0.5469
41/94 [=========>...............] - ETA: 19s - loss: 1.0976 - acc: 0.4320     3/94 [..........................] - ETA: 14s - loss: 1.0323 - acc: 0.5312
42/94 [==========>..............] - ETA: 19s - loss: 1.0961 - acc: 0.4299     4/94 [>.........................] - ETA: 14s - loss: 1.0174 - acc: 0.5078
43/94 [==========>..............] - ETA: 19s - loss: 1.0933 - acc: 0.4338     5/94 [>.........................] - ETA: 13s - loss: 1.0071 - acc: 0.5062
44/94 [==========>..............] - ETA: 18s - loss: 1.0939 - acc: 0.4338     6/94 [>.........................] - ETA: 13s - loss: 1.0059 - acc: 0.4948
45/94 [===========>.............] - ETA: 18s - loss: 1.0960 - acc: 0.4311     7/94 [=>........................] - ETA: 12s - loss: 1.0033 - acc: 0.4866
46/94 [===========>.............] - ETA: 18s - loss: 1.0967 - acc: 0.4286     8/94 [=>........................] - ETA: 12s - loss: 0.9894 - acc: 0.4883
47/94 [===========>.............] - ETA: 18s - loss: 1.0972 - acc: 0.4281     9/94 [=>........................] - ETA: 12s - loss: 0.9813 - acc: 0.5000
48/94 [===========>.............] - ETA: 17s - loss: 1.0944 - acc: 0.4296    10/94 [==>.......................] - ETA: 11s - loss: 0.9744 - acc: 0.5031
49/94 [============>............] - ETA: 17s - loss: 1.0937 - acc: 0.4310    11/94 [==>.......................] - ETA: 11s - loss: 0.9634 - acc: 0.5142
50/94 [============>............] - ETA: 17s - loss: 1.0922 - acc: 0.4343    12/94 [==>.......................] - ETA: 11s - loss: 0.9566 - acc: 0.5130
51/94 [============>............] - ETA: 16s - loss: 1.0902 - acc: 0.4362    13/94 [===>......................] - ETA: 11s - loss: 0.9537 - acc: 0.5120
52/94 [=============>...........] - ETA: 16s - loss: 1.0879 - acc: 0.4386    14/94 [===>......................] - ETA: 11s - loss: 0.9671 - acc: 0.5022
53/94 [=============>...........] - ETA: 16s - loss: 1.0859 - acc: 0.4398    15/94 [===>......................] - ETA: 12s - loss: 0.9876 - acc: 0.4917
54/94 [=============>...........] - ETA: 15s - loss: 1.0852 - acc: 0.4403    16/94 [====>.....................] - ETA: 13s - loss: 1.0053 - acc: 0.4785
55/94 [==============>..........] - ETA: 15s - loss: 1.0839 - acc: 0.4385    17/94 [====>.....................] - ETA: 14s - loss: 1.0006 - acc: 0.4835
56/94 [==============>..........] - ETA: 15s - loss: 1.0849 - acc: 0.4396    18/94 [====>.....................] - ETA: 15s - loss: 0.9983 - acc: 0.4844
57/94 [==============>..........] - ETA: 14s - loss: 1.0983 - acc: 0.4380    19/94 [=====>....................] - ETA: 16s - loss: 0.9977 - acc: 0.4819
58/94 [===============>.........] - ETA: 14s - loss: 1.0957 - acc: 0.4396    20/94 [=====>....................] - ETA: 17s - loss: 0.9940 - acc: 0.4813
59/94 [===============>.........] - ETA: 14s - loss: 1.0959 - acc: 0.4401    21/94 [=====>....................] - ETA: 18s - loss: 0.9878 - acc: 0.4851
60/94 [===============>.........] - ETA: 13s - loss: 1.0950 - acc: 0.4421    22/94 [=====>....................] - ETA: 18s - loss: 0.9852 - acc: 0.4858
61/94 [================>........] - ETA: 13s - loss: 1.0949 - acc: 0.4405    23/94 [======>...................] - ETA: 18s - loss: 0.9834 - acc: 0.4831
62/94 [================>........] - ETA: 13s - loss: 1.0918 - acc: 0.4425    24/94 [======>...................] - ETA: 19s - loss: 0.9864 - acc: 0.4877
63/94 [================>........] - ETA: 12s - loss: 1.0892 - acc: 0.4434    25/94 [======>...................] - ETA: 19s - loss: 0.9834 - acc: 0.4957
64/94 [=================>.......] - ETA: 12s - loss: 1.0893 - acc: 0.4433    26/94 [=======>..................] - ETA: 19s - loss: 0.9762 - acc: 0.5018
65/94 [=================>.......] - ETA: 12s - loss: 1.0917 - acc: 0.4408    27/94 [=======>..................] - ETA: 20s - loss: 0.9737 - acc: 0.4995
66/94 [=================>.......] - ETA: 11s - loss: 1.0943 - acc: 0.4412    28/94 [=======>..................] - ETA: 20s - loss: 0.9776 - acc: 0.4928
67/94 [==================>......] - ETA: 11s - loss: 1.0930 - acc: 0.4412    29/94 [=======>..................] - ETA: 20s - loss: 0.9749 - acc: 0.4941
68/94 [==================>......] - ETA: 10s - loss: 1.0901 - acc: 0.4425    30/94 [=========>................] - ETA: 20s - loss: 0.9764 - acc: 0.4933
69/94 [==================>......] - ETA: 10s - loss: 1.0891 - acc: 0.4420    31/94 [=========>................] - ETA: 20s - loss: 0.9733 - acc: 0.4975
70/94 [===================>.....] - ETA: 10s - loss: 1.0889 - acc: 0.4414    32/94 [=========>................] - ETA: 20s - loss: 0.9716 - acc: 0.4995
71/94 [===================>.....] - ETA: 9s - loss: 1.0887 - acc: 0.4396     33/94 [=========>................] - ETA: 20s - loss: 0.9742 - acc: 0.4967
72/94 [===================>.....] - ETA: 9s - loss: 1.0869 - acc: 0.4405     34/94 [=========>................] - ETA: 20s - loss: 0.9761 - acc: 0.4941
73/94 [====================>....] - ETA: 9s - loss: 1.0856 - acc: 0.4404     35/94 [=========>................] - ETA: 20s - loss: 0.9763 - acc: 0.4916
74/94 [====================>....] - ETA: 8s - loss: 1.0861 - acc: 0.4387     36/94 [=========>................] - ETA: 20s - loss: 0.9817 - acc: 0.4883
75/94 [====================>....] - ETA: 8s - loss: 1.0853 - acc: 0.4379     37/94 [=========>................] - ETA: 20s - loss: 0.9837 - acc: 0.4878
76/94 [=====================>...] - ETA: 7s - loss: 1.0834 - acc: 0.4399     38/94 [==========>...............] - ETA: 20s - loss: 0.9872 - acc: 0.4840
77/94 [=====================>...] - ETA: 7s - loss: 1.0822 - acc: 0.4399     39/94 [==========>...............] - ETA: 19s - loss: 0.9835 - acc: 0.4892
78/94 [=====================>...] - ETA: 7s - loss: 1.0821 - acc: 0.4398     40/94 [==========>...............] - ETA: 19s - loss: 0.9829 - acc: 0.4903
79/94 [======================>..] - ETA: 6s - loss: 1.0802 - acc: 0.4422     41/94 [==========>...............] - ETA: 19s - loss: 0.9791 - acc: 0.4936
80/94 [======================>..] - ETA: 6s - loss: 1.0793 - acc: 0.4433     42/94 [===========>..............] - ETA: 19s - loss: 0.9771 - acc: 0.4959
81/94 [======================>..] - ETA: 5s - loss: 1.0790 - acc: 0.4417     43/94 [===========>..............] - ETA: 19s - loss: 0.9766 - acc: 0.4960
82/94 [======================>..] - ETA: 5s - loss: 1.0774 - acc: 0.4416     44/94 [===========>..............] - ETA: 18s - loss: 0.9750 - acc: 0.4947
83/94 [=======================>.] - ETA: 4s - loss: 1.0744 - acc: 0.4442     45/94 [===========>..............] - ETA: 18s - loss: 0.9789 - acc: 0.4934
84/94 [=======================>.] - ETA: 4s - loss: 1.0736 - acc: 0.4441     46/94 [===========>..............] - ETA: 18s - loss: 0.9802 - acc: 0.4922
85/94 [=======================>.] - ETA: 4s - loss: 1.0732 - acc: 0.4452     47/94 [===========>..............] - ETA: 18s - loss: 0.9806 - acc: 0.4917
86/94 [========================>.] - ETA: 3s - loss: 1.0734 - acc: 0.4458    48/94 [============>.............] - ETA: 17s - loss: 0.9807 - acc: 0.4945
87/94 [========================>.] - ETA: 3s - loss: 1.0758 - acc: 0.4461    49/94 [============>.............] - ETA: 17s - loss: 0.9814 - acc: 0.4933
88/94 [========================>.] - ETA: 2s - loss: 1.0743 - acc: 0.4470    50/94 [============>.............] - ETA: 17s - loss: 0.9795 - acc: 0.4947
89/94 [=========================>..] - ETA: 2s - loss: 1.0736 - acc: 0.4480  51/94 [=============>............] - ETA: 16s - loss: 0.9775 - acc: 0.4954
90/94 [=========================>..] - ETA: 2s - loss: 1.0729 - acc: 0.4489  52/94 [=============>............] - ETA: 16s - loss: 0.9754 - acc: 0.4997
91/94 [=========================>..] - ETA: 1s - loss: 1.0723 - acc: 0.4505  53/94 [=============>............] - ETA: 16s - loss: 0.9749 - acc: 0.4997
92/94 [==========================>.] - ETA: 1s - loss: 1.0704 - acc: 0.4524  54/94 [=============>............] - ETA: 16s - loss: 0.9730 - acc: 0.5009
93/94 [==========================>.] - ETA: 0s - loss: 1.0695 - acc: 0.4522  55/94 [==============>...........] - ETA: 15s - loss: 0.9713 - acc: 0.5037
94/94 [===========================] - ETA: 0s - loss: 1.0665 - acc: 0.4541  56/94 [==============>...........] - ETA: 15s - loss: 0.9716 - acc: 0.5025
95/94 [===========================] - 188s 2s/step - loss: 1.0646 - acc: 0.4565 - val_loss: 0.9222 - val_acc:  57/94 [==============>...........] - ETA: 15s - loss: 0.9753 - acc: 0.5014
0.5043                                                                       58/94 [==============>...........] - ETA: 14s - loss: 0.9797 - acc: 0.5003
Epoch 5/20                                                                   59/94 [==============>...........] - ETA: 14s - loss: 0.9784 - acc: 0.5008
```

```
60/94 [==================>...........] - ETA: 14s - loss: 0.9771 - acc: 0.5024
61/94 [==================>...........] - ETA: 13s - loss: 0.9771 - acc: 0.5044
62/94 [==================>...........] - ETA: 13s - loss: 0.9771 - acc: 0.5058
63/94 [==================>...........] - ETA: 12s - loss: 0.9768 - acc: 0.5062
64/94 [===================>..........] - ETA: 12s - loss: 0.9751 - acc: 0.5071
65/94 [===================>..........] - ETA: 12s - loss: 0.9732 - acc: 0.5075
66/94 [===================>..........] - ETA: 11s - loss: 0.9752 - acc: 0.5045
67/94 [===================>........] - ETA: 11s - loss: 0.9750 - acc: 0.5044
68/94 [====================>........] - ETA: 11s - loss: 0.9748 - acc: 0.5053
69/94 [====================>........] - ETA: 10s - loss: 0.9739 - acc: 0.5057
70/94 [====================>.......] - ETA: 10s - loss: 0.9737 - acc: 0.5060
71/94 [=====================>.......] - ETA: 9s - loss: 0.9761 - acc: 0.5051
72/94 [=====================>.......] - ETA: 9s - loss: 0.9779 - acc: 0.5037
73/94 [=====================>......] - ETA: 9s - loss: 0.9787 - acc: 0.5032
74/94 [======================>......] - ETA: 8s - loss: 0.9772 - acc: 0.5023
75/94 [======================>......] - ETA: 8s - loss: 0.9767 - acc: 0.5031
76/94 [======================>.....] - ETA: 7s - loss: 0.9789 - acc: 0.5019
77/94 [=======================>.....] - ETA: 7s - loss: 0.9782 - acc: 0.5031
78/94 [=======================>.....] - ETA: 7s - loss: 0.9765 - acc: 0.5038
79/94 [=======================>.....] - ETA: 6s - loss: 0.9769 - acc: 0.5046
80/94 [========================>.....] - ETA: 6s - loss: 0.9759 - acc: 0.5053
81/94 [========================>.....] - ETA: 5s - loss: 0.9743 - acc: 0.5060
82/94 [========================>.....] - ETA: 5s - loss: 0.9738 - acc: 0.5059
83/94 [=========================>....] - ETA: 5s - loss: 0.9742 - acc: 0.5055
84/94 [=========================>....] - ETA: 4s - loss: 0.9735 - acc: 0.5062
85/94 [=========================>....] - ETA: 4s - loss: 0.9717 - acc: 0.5072
86/94 [==========================>...] - ETA: 3s - loss: 0.9709 - acc: 0.5075
87/94 [==========================>...] - ETA: 3s - loss: 0.9718 - acc: 0.5056
88/94 [==========================>...] - ETA: 2s - loss: 0.9712 - acc: 0.5066
89/94 [===========================>..] - ETA: 2s - loss: 0.9698 - acc: 0.5062
90/94 [===========================>..] - ETA: 2s - loss: 0.9692 - acc: 0.5075
91/94 [===========================>..] - ETA: 1s - loss: 0.9672 - acc: 0.5101
92/94 [============================>.] - ETA: 1s - loss: 0.9662 - acc: 0.5111
93/94 [============================>.] - ETA: 0s - loss: 0.9641 - acc: 0.5133
94/94 [============================>.] - ETA: 0s - loss: 0.9630 - acc: 0.5135
95/94 [=============================] - 187s 2s/step - loss: 0.9621 - acc: 0.5140 - val_loss: 0.9246 - val_acc: 0.5083
Epoch 6/20
 1/94 [..............................] - ETA: 16s - loss: 0.8693 - acc: 0.6562
 2/94 [..............................] - ETA: 15s - loss: 0.8050 - acc: 0.6875
 3/94 [..............................] - ETA: 14s - loss: 0.9105 - acc: 0.6250
 4/94 [>.............................] - ETA: 13s - loss: 0.9405 - acc: 0.5938
 5/94 [>.............................] - ETA: 13s - loss: 0.9167 - acc: 0.5687
 6/94 [>.............................] - ETA: 12s - loss: 0.9249 - acc: 0.5885
 7/94 [=>............................] - ETA: 12s - loss: 0.9378 - acc: 0.5714
 8/94 [=>............................] - ETA: 12s - loss: 0.9210 - acc: 0.5703
 9/94 [=>............................] - ETA: 12s - loss: 0.9154 - acc: 0.5764
10/94 [==>...........................] - ETA: 11s - loss: 0.9117 - acc: 0.5563
11/94 [==>...........................] - ETA: 11s - loss: 0.9176 - acc: 0.5483
12/94 [==>...........................] - ETA: 11s - loss: 0.9094 - acc: 0.5365
13/94 [===>..........................] - ETA: 11s - loss: 0.9183 - acc: 0.5264
14/94 [===>..........................] - ETA: 11s - loss: 0.9137 - acc: 0.5246
15/94 [===>..........................] - ETA: 12s - loss: 0.9150 - acc: 0.5292
16/94 [====>.........................] - ETA: 13s - loss: 0.9105 - acc: 0.5352
17/94 [====>.........................] - ETA: 15s - loss: 0.9114 - acc: 0.5331
18/94 [====>.........................] - ETA: 16s - loss: 0.9014 - acc: 0.5312
19/94 [=====>........................] - ETA: 16s - loss: 0.8955 - acc: 0.5312
20/94 [=====>........................] - ETA: 17s - loss: 0.8967 - acc: 0.5328
21/94 [=====>........................] - ETA: 18s - loss: 0.9097 - acc: 0.5268
22/94 [=====>........................] - ETA: 18s - loss: 0.9141 - acc: 0.5312
23/94 [======>.......................] - ETA: 19s - loss: 0.9107 - acc: 0.5285
24/94 [======>.......................] - ETA: 19s - loss: 0.9044 - acc: 0.5326
25/94 [======>.......................] - ETA: 20s - loss: 0.9005 - acc: 0.5363
26/94 [=======>......................] - ETA: 20s - loss: 0.8961 - acc: 0.5397
27/94 [=======>......................] - ETA: 20s - loss: 0.8902 - acc: 0.5417
28/94 [=======>......................] - ETA: 20s - loss: 0.8860 - acc: 0.5413
29/94 [========>.....................] - ETA: 20s - loss: 0.8882 - acc: 0.5366
30/94 [========>.....................] - ETA: 20s - loss: 0.8894 - acc: 0.5323
31/94 [========>.....................] - ETA: 20s - loss: 0.8908 - acc: 0.5343
32/94 [=========>....................] - ETA: 20s - loss: 0.8922 - acc: 0.5303
33/94 [=========>....................] - ETA: 20s - loss: 0.8972 - acc: 0.5275
34/94 [=========>....................] - ETA: 20s - loss: 0.8968 - acc: 0.5248
35/94 [==========>...................] - ETA: 20s - loss: 0.8930 - acc: 0.5268
36/94 [==========>...................] - ETA: 20s - loss: 0.8909 - acc: 0.5278
37/94 [==========>...................] - ETA: 20s - loss: 0.8891 - acc: 0.5279
38/94 [===========>..................] - ETA: 20s - loss: 0.8883 - acc: 0.5247
39/94 [===========>..................] - ETA: 20s - loss: 0.8917 - acc: 0.5232
40/94 [===========>..................] - ETA: 19s - loss: 0.8917 - acc: 0.5250
41/94 [============>.................] - ETA: 19s - loss: 0.8936 - acc: 0.5252
42/94 [============>.................] - ETA: 19s - loss: 0.8918 - acc: 0.5253
43/94 [============>.................] - ETA: 19s - loss: 0.8885 - acc: 0.5276
44/94 [=============>................] - ETA: 19s - loss: 0.8846 - acc: 0.5298
45/94 [=============>................] - ETA: 18s - loss: 0.8868 - acc: 0.5278
46/94 [=============>................] - ETA: 18s - loss: 0.8976 - acc: 0.5265
47/94 [==============>...............] - ETA: 18s - loss: 0.8993 - acc: 0.5219
48/94 [==============>...............] - ETA: 18s - loss: 0.9008 - acc: 0.5215
49/94 [==============>...............] - ETA: 17s - loss: 0.8977 - acc: 0.5230
50/94 [===============>..............] - ETA: 17s - loss: 0.8961 - acc: 0.5250
51/94 [===============>..............] - ETA: 17s - loss: 0.8936 - acc: 0.5263
52/94 [===============>..............] - ETA: 16s - loss: 0.8933 - acc: 0.5270
53/94 [================>.............] - ETA: 16s - loss: 0.8923 - acc: 0.5271
54/94 [================>.............] - ETA: 16s - loss: 0.8911 - acc: 0.5272
55/94 [================>.............] - ETA: 15s - loss: 0.8950 - acc: 0.5267
56/94 [================>.............] - ETA: 15s - loss: 0.8963 - acc: 0.5285
57/94 [=================>............] - ETA: 15s - loss: 0.8995 - acc: 0.5263
58/94 [=================>............] - ETA: 14s - loss: 0.8975 - acc: 0.5275
59/94 [=================>............] - ETA: 14s - loss: 0.8975 - acc: 0.5270
60/94 [=================>............] - ETA: 14s - loss: 0.8974 - acc: 0.5271
61/94 [==================>...........] - ETA: 13s - loss: 0.8998 - acc: 0.5277
62/94 [==================>...........] - ETA: 13s - loss: 0.8986 - acc: 0.5282
63/94 [==================>...........] - ETA: 13s - loss: 0.8986 - acc: 0.5283
64/94 [===================>..........] - ETA: 12s - loss: 0.8990 - acc: 0.5273
65/94 [===================>..........] - ETA: 12s - loss: 0.8965 - acc: 0.5288
66/94 [===================>..........] - ETA: 11s - loss: 0.8943 - acc: 0.5308
67/94 [====================>.........] - ETA: 11s - loss: 0.8935 - acc: 0.5308
68/94 [====================>.........] - ETA: 11s - loss: 0.8927 - acc: 0.5308
69/94 [====================>.........] - ETA: 10s - loss: 0.8917 - acc: 0.5303
70/94 [=====================>........] - ETA: 10s - loss: 0.8909 - acc: 0.5304
71/94 [=====================>........] - ETA: 10s - loss: 0.8908 - acc: 0.5299
72/94 [=====================>........] - ETA: 9s - loss: 0.8933 - acc: 0.5282
73/94 [======================>.......] - ETA: 9s - loss: 0.8927 - acc: 0.5283
74/94 [======================>.......] - ETA: 8s - loss: 0.8914 - acc: 0.5291
75/94 [======================>.......] - ETA: 8s - loss: 0.8890 - acc: 0.5313
76/94 [=======================>......] - ETA: 7s - loss: 0.8893 - acc: 0.5305
77/94 [=======================>......] - ETA: 7s - loss: 0.8889 - acc: 0.5309
78/94 [=======================>......] - ETA: 7s - loss: 0.8912 - acc: 0.5297
79/94 [========================>.....] - ETA: 6s - loss: 0.8899 - acc: 0.5285
80/94 [========================>.....] - ETA: 6s - loss: 0.8881 - acc: 0.5294
```

```
81/94 [=======================>.....] - ETA: 5s - loss: 0.8870 - acc: 0.5290
82/94 [=======================>.....] - ETA: 5s - loss: 0.8882 - acc: 0.5290
83/94 [=======================>....] - ETA: 5s - loss: 0.8861 - acc: 0.5302
84/94 [========================>....] - ETA: 4s - loss: 0.8869 - acc: 0.5302
85/94 [========================>....] - ETA: 4s - loss: 0.8878 - acc: 0.5306
86/94 [========================>...] - ETA: 3s - loss: 0.8870 - acc: 0.5320
87/94 [=========================>...] - ETA: 3s - loss: 0.8858 - acc: 0.5327
88/94 [=========================>...] - ETA: 2s - loss: 0.8852 - acc: 0.5309
89/94 [=========================>..] - ETA: 2s - loss: 0.8834 - acc: 0.5327
90/94 [==========================>..] - ETA: 2s - loss: 0.8827 - acc: 0.5344
91/94 [==========================>..] - ETA: 1s - loss: 0.8830 - acc: 0.5334
92/94 [==========================>.] - ETA: 1s - loss: 0.8826 - acc: 0.5323
93/94 [===========================>.] - ETA: 0s - loss: 0.8811 - acc: 0.5337
94/94 [===========================>.] - ETA: 0s - loss: 0.8788 - acc: 0.5340
95/94 [============================] - 187s 2s/step - loss: 0.8789 - acc: 0.5333 - val_loss: 0.7766 - val_acc: 0.5766
Epoch 7/20
 1/94 [..........................] - ETA: 16s - loss: 0.6336 - acc: 0.7188
 2/94 [..........................] - ETA: 15s - loss: 0.8330 - acc: 0.5781
 3/94 [..........................] - ETA: 14s - loss: 0.8658 - acc: 0.6146
 4/94 [>.........................] - ETA: 14s - loss: 0.9146 - acc: 0.5391
 5/94 [>.........................] - ETA: 13s - loss: 0.9345 - acc: 0.5375
 6/94 [>.........................] - ETA: 13s - loss: 0.9462 - acc: 0.5365
 7/94 [=>........................] - ETA: 12s - loss: 0.9307 - acc: 0.5268
 8/94 [=>........................] - ETA: 12s - loss: 0.9329 - acc: 0.5156
 9/94 [=>........................] - ETA: 12s - loss: 0.9286 - acc: 0.5312
10/94 [==>.......................] - ETA: 12s - loss: 0.9009 - acc: 0.5437
11/94 [==>.......................] - ETA: 11s - loss: 0.9035 - acc: 0.5369
12/94 [==>.......................] - ETA: 11s - loss: 0.8968 - acc: 0.5312
13/94 [===>......................] - ETA: 11s - loss: 0.8845 - acc: 0.5385
14/94 [===>......................] - ETA: 11s - loss: 0.8769 - acc: 0.5446
15/94 [===>......................] - ETA: 11s - loss: 0.8792 - acc: 0.5417
16/94 [====>.....................] - ETA: 13s - loss: 0.8809 - acc: 0.5371
17/94 [====>.....................] - ETA: 14s - loss: 0.8713 - acc: 0.5423
18/94 [====>.....................] - ETA: 15s - loss: 0.8752 - acc: 0.5399
19/94 [=====>....................] - ETA: 16s - loss: 0.8806 - acc: 0.5312
20/94 [=====>....................] - ETA: 17s - loss: 0.8810 - acc: 0.5281
21/94 [=====>....................] - ETA: 18s - loss: 0.8754 - acc: 0.5298
22/94 [=====>....................] - ETA: 18s - loss: 0.8761 - acc: 0.5284
23/94 [======>...................] - ETA: 19s - loss: 0.8691 - acc: 0.5312
24/94 [======>...................] - ETA: 19s - loss: 0.8659 - acc: 0.5326
25/94 [======>...................] - ETA: 19s - loss: 0.8709 - acc: 0.5288
26/94 [=======>..................] - ETA: 20s - loss: 0.8698 - acc: 0.5276
27/94 [=======>..................] - ETA: 20s - loss: 0.8798 - acc: 0.5220
28/94 [=======>..................] - ETA: 20s - loss: 0.8844 - acc: 0.5234
29/94 [========>.................] - ETA: 20s - loss: 0.8787 - acc: 0.5291
30/94 [========>.................] - ETA: 20s - loss: 0.8754 - acc: 0.5302
31/94 [========>.................] - ETA: 20s - loss: 0.8720 - acc: 0.5312
32/94 [=========>................] - ETA: 20s - loss: 0.8707 - acc: 0.5293
33/94 [=========>................] - ETA: 20s - loss: 0.8701 - acc: 0.5284
34/94 [=========>................] - ETA: 20s - loss: 0.8660 - acc: 0.5312
35/94 [==========>...............] - ETA: 20s - loss: 0.8638 - acc: 0.5330
36/94 [==========>...............] - ETA: 20s - loss: 0.8635 - acc: 0.5330
37/94 [==========>...............] - ETA: 20s - loss: 0.8692 - acc: 0.5346
38/94 [==========>...............] - ETA: 20s - loss: 0.8691 - acc: 0.5378
39/94 [===========>..............] - ETA: 20s - loss: 0.8669 - acc: 0.5385
40/94 [===========>..............] - ETA: 19s - loss: 0.8636 - acc: 0.5398
41/94 [===========>..............] - ETA: 19s - loss: 0.8604 - acc: 0.5442
42/94 [============>.............] - ETA: 19s - loss: 0.8595 - acc: 0.5424

43/94 [============>.............] - ETA: 19s - loss: 0.8587 - acc: 0.5465
44/94 [============>.............] - ETA: 19s - loss: 0.8641 - acc: 0.5447
45/94 [=============>............] - ETA: 18s - loss: 0.8661 - acc: 0.5424
46/94 [=============>............] - ETA: 18s - loss: 0.8672 - acc: 0.5421
47/94 [=============>............] - ETA: 18s - loss: 0.8658 - acc: 0.5419
48/94 [==============>...........] - ETA: 17s - loss: 0.8628 - acc: 0.5449
49/94 [==============>...........] - ETA: 17s - loss: 0.8638 - acc: 0.5446
50/94 [==============>...........] - ETA: 17s - loss: 0.8619 - acc: 0.5463
51/94 [===============>..........] - ETA: 17s - loss: 0.8599 - acc: 0.5472
52/94 [===============>..........] - ETA: 16s - loss: 0.8559 - acc: 0.5493
53/94 [===============>..........] - ETA: 16s - loss: 0.8532 - acc: 0.5495
54/94 [================>.........] - ETA: 16s - loss: 0.8511 - acc: 0.5498
55/94 [================>.........] - ETA: 15s - loss: 0.8544 - acc: 0.5500
56/94 [================>.........] - ETA: 15s - loss: 0.8552 - acc: 0.5497
57/94 [=================>........] - ETA: 15s - loss: 0.8522 - acc: 0.5521
58/94 [=================>........] - ETA: 14s - loss: 0.8478 - acc: 0.5550
59/94 [=================>........] - ETA: 14s - loss: 0.8494 - acc: 0.5551
60/94 [==================>.......] - ETA: 14s - loss: 0.8469 - acc: 0.5557
61/94 [==================>.......] - ETA: 13s - loss: 0.8490 - acc: 0.5538
62/94 [==================>.......] - ETA: 13s - loss: 0.8526 - acc: 0.5534
63/94 [===================>......] - ETA: 13s - loss: 0.8504 - acc: 0.5531
64/94 [===================>......] - ETA: 12s - loss: 0.8482 - acc: 0.5527
65/94 [===================>......] - ETA: 12s - loss: 0.8464 - acc: 0.5548
66/94 [====================>.....] - ETA: 11s - loss: 0.8469 - acc: 0.5540
67/94 [====================>.....] - ETA: 11s - loss: 0.8472 - acc: 0.5504
68/94 [====================>.....] - ETA: 11s - loss: 0.8458 - acc: 0.5519
69/94 [=====================>....] - ETA: 10s - loss: 0.8440 - acc: 0.5525
70/94 [=====================>....] - ETA: 10s - loss: 0.8401 - acc: 0.5558
71/94 [=====================>....] - ETA: 9s - loss: 0.8425 - acc: 0.5546
72/94 [======================>...] - ETA: 9s - loss: 0.8438 - acc: 0.5538
73/94 [======================>...] - ETA: 9s - loss: 0.8431 - acc: 0.5557
74/94 [======================>...] - ETA: 8s - loss: 0.8416 - acc: 0.5557
75/94 [=======================>..] - ETA: 8s - loss: 0.8387 - acc: 0.5575
76/94 [=======================>..] - ETA: 7s - loss: 0.8371 - acc: 0.5563
77/94 [=======================>..] - ETA: 7s - loss: 0.8361 - acc: 0.5572
78/94 [========================>.] - ETA: 7s - loss: 0.8344 - acc: 0.5577
79/94 [========================>.] - ETA: 6s - loss: 0.8331 - acc: 0.5562
80/94 [=========================>.] - ETA: 6s - loss: 0.8317 - acc: 0.5559
81/94 [=========================>.] - ETA: 5s - loss: 0.8297 - acc: 0.5567
82/94 [==========================>] - ETA: 5s - loss: 0.8266 - acc: 0.5583
83/94 [==========================>] - ETA: 5s - loss: 0.8277 - acc: 0.5584
84/94 [===========================>] - ETA: 4s - loss: 0.8287 - acc: 0.5584
85/94 [===========================>] - ETA: 4s - loss: 0.8301 - acc: 0.5585
86/94 [===========================>] - ETA: 3s - loss: 0.8298 - acc: 0.5600
87/94 [============================>] - ETA: 3s - loss: 0.8281 - acc: 0.5607
88/94 [============================>] - ETA: 2s - loss: 0.8263 - acc: 0.5607
89/94 [=============================>..] - ETA: 2s - loss: 0.8259 - acc: 0.5600
90/94 [=============================>..] - ETA: 2s - loss: 0.8268 - acc: 0.5611
91/94 [=============================>..] - ETA: 1s - loss: 0.8256 - acc: 0.5604
92/94 [==============================>.] - ETA: 1s - loss: 0.8260 - acc: 0.5601
93/94 [==============================>.] - ETA: 0s - loss: 0.8276 - acc: 0.5595
94/94 [==============================>.] - ETA: 0s - loss: 0.8274 - acc: 0.5612
95/94 [==============================] - 186s 2s/step - loss: 0.8278 - acc: 0.5612 - val_loss: 0.8265 - val_acc: 0.5536
Epoch 8/20
 1/94 [..........................] - ETA: 15s - loss: 0.9398 - acc: 0.5938
 2/94 [..........................] - ETA: 15s - loss: 0.9462 - acc: 0.5156
 3/94 [..........................] - ETA: 14s - loss: 0.8624 - acc: 0.5833
 4/94 [>.........................] - ETA: 14s - loss: 0.8305 - acc: 0.5859
```

```
5/94 [>.........................] - ETA: 13s - loss: 0.8329 - acc: 0.5687
6/94 [>.........................] - ETA: 13s - loss: 0.8122 - acc: 0.5573
7/94 [=>........................] - ETA: 12s - loss: 0.8000 - acc: 0.5804
8/94 [=>........................] - ETA: 12s - loss: 0.7931 - acc: 0.5781
9/94 [=>........................] - ETA: 11s - loss: 0.7819 - acc: 0.5823
10/94 [==>.......................] - ETA: 11s - loss: 0.7858 - acc: 0.5803
11/94 [==>.......................] - ETA: 11s - loss: 0.7791 - acc: 0.5844
12/94 [==>.......................] - ETA: 11s - loss: 0.7845 - acc: 0.5799
13/94 [===>......................] - ETA: 11s - loss: 0.7823 - acc: 0.5882
14/94 [===>......................] - ETA: 10s - loss: 0.7811 - acc: 0.5864
15/94 [===>......................] - ETA: 11s - loss: 0.7768 - acc: 0.5889
16/94 [====>.....................] - ETA: 13s - loss: 0.7762 - acc: 0.5892
17/94 [====>.....................] - ETA: 14s - loss: 0.7801 - acc: 0.5932
18/94 [====>.....................] - ETA: 15s - loss: 0.7820 - acc: 0.6002
19/94 [=====>....................] - ETA: 16s - loss: 0.7712 - acc: 0.6064
20/94 [=====>....................] - ETA: 17s - loss: 0.7648 - acc: 0.6120
21/94 [=====>....................] - ETA: 18s - loss: 0.7682 - acc: 0.6097
22/94 [=====>....................] - ETA: 18s - loss: 0.7609 - acc: 0.6104
23/94 [======>...................] - ETA: 19s - loss: 0.7675 - acc: 0.6056
24/94 [======>...................] - ETA: 19s - loss: 0.7836 - acc: 0.6012
25/94 [======>...................] - ETA: 19s - loss: 0.7833 - acc: 0.6021
26/94 [=======>..................] - ETA: 20s - loss: 0.7845 - acc: 0.5970
27/94 [=======>..................] - ETA: 20s - loss: 0.7806 - acc: 0.5946
28/94 [=======>..................] - ETA: 20s - loss: 0.7763 - acc: 0.5968
29/94 [========>.................] - ETA: 20s - loss: 0.7735 - acc: 0.5967
30/94 [========>.................] - ETA: 20s - loss: 0.7708 - acc: 0.5966
31/94 [========>.................] - ETA: 20s - loss: 0.7675 - acc: 0.5965
32/94 [=========>................] - ETA: 20s - loss: 0.7733 - acc: 0.5954
33/94 [=========>................] - ETA: 20s - loss: 0.7865 - acc: 0.5925
34/94 [=========>................] - ETA: 20s - loss: 0.7877 - acc: 0.5916
35/94 [=========>................] - ETA: 20s - loss: 0.7867 - acc: 0.5926
36/94 [=========>................] - ETA: 20s - loss: 0.7873 - acc: 0.5883
37/94 [==========>...............] - ETA: 20s - loss: 0.7864 - acc: 0.5910
38/94 [==========>...............] - ETA: 20s - loss: 0.7848 - acc: 0.5919
39/94 [==========>...............] - ETA: 20s - loss: 0.7807 - acc: 0.5919
40/94 [===========>..............] - ETA: 19s - loss: 0.7787 - acc: 0.5919
41/94 [===========>..............] - ETA: 19s - loss: 0.7816 - acc: 0.5897
42/94 [===========>..............] - ETA: 19s - loss: 0.7829 - acc: 0.5876
43/94 [===========>..............] - ETA: 19s - loss: 0.7845 - acc: 0.5863
44/94 [===========>..............] - ETA: 19s - loss: 0.7842 - acc: 0.5871
45/94 [============>.............] - ETA: 18s - loss: 0.7846 - acc: 0.5852
46/94 [============>.............] - ETA: 18s - loss: 0.7850 - acc: 0.5854
47/94 [============>.............] - ETA: 18s - loss: 0.7821 - acc: 0.5862
48/94 [=============>............] - ETA: 17s - loss: 0.7823 - acc: 0.5857
49/94 [=============>............] - ETA: 17s - loss: 0.7795 - acc: 0.5872
50/94 [=============>............] - ETA: 17s - loss: 0.7802 - acc: 0.5879
51/94 [=============>............] - ETA: 17s - loss: 0.7796 - acc: 0.5874
52/94 [==============>...........] - ETA: 16s - loss: 0.7790 - acc: 0.5870
53/94 [==============>...........] - ETA: 16s - loss: 0.7752 - acc: 0.5894
54/94 [==============>...........] - ETA: 16s - loss: 0.7744 - acc: 0.5895
55/94 [==============>...........] - ETA: 15s - loss: 0.7742 - acc: 0.5902
56/94 [===============>..........] - ETA: 15s - loss: 0.7759 - acc: 0.5880
57/94 [===============>..........] - ETA: 15s - loss: 0.7779 - acc: 0.5881
58/94 [===============>..........] - ETA: 14s - loss: 0.7756 - acc: 0.5871
59/94 [===============>..........] - ETA: 14s - loss: 0.7759 - acc: 0.5856
60/94 [================>.........] - ETA: 14s - loss: 0.7777 - acc: 0.5868
61/94 [================>.........] - ETA: 13s - loss: 0.7800 - acc: 0.5854
62/94 [================>.........] - ETA: 13s - loss: 0.7790 - acc: 0.5865
63/94 [=================>........] - ETA: 12s - loss: 0.7779 - acc: 0.5867
64/94 [=================>........] - ETA: 12s - loss: 0.7778 - acc: 0.5858
65/94 [=================>........] - ETA: 12s - loss: 0.7755 - acc: 0.5874
66/94 [=================>........] - ETA: 11s - loss: 0.7732 - acc: 0.5889
67/94 [==================>.......] - ETA: 11s - loss: 0.7744 - acc: 0.5885
68/94 [==================>.......] - ETA: 11s - loss: 0.7729 - acc: 0.5904
69/94 [==================>.......] - ETA: 10s - loss: 0.7724 - acc: 0.5909
70/94 [===================>......] - ETA: 10s - loss: 0.7711 - acc: 0.5923
71/94 [===================>......] - ETA: 9s - loss: 0.7704 - acc: 0.5927
72/94 [===================>......] - ETA: 9s - loss: 0.7699 - acc: 0.5906
73/94 [===================>......] - ETA: 9s - loss: 0.7727 - acc: 0.5898
74/94 [====================>.....] - ETA: 8s - loss: 0.7731 - acc: 0.5898
75/94 [====================>.....] - ETA: 8s - loss: 0.7720 - acc: 0.5899
76/94 [=====================>....] - ETA: 7s - loss: 0.7727 - acc: 0.5891
77/94 [=====================>....] - ETA: 7s - loss: 0.7741 - acc: 0.5883
78/94 [=====================>....] - ETA: 7s - loss: 0.7738 - acc: 0.5884
79/94 [=====================>....] - ETA: 6s - loss: 0.7731 - acc: 0.5889
80/94 [======================>...] - ETA: 6s - loss: 0.7732 - acc: 0.5882
81/94 [======================>...] - ETA: 5s - loss: 0.7731 - acc: 0.5882
82/94 [======================>...] - ETA: 5s - loss: 0.7735 - acc: 0.5856
83/94 [=======================>..] - ETA: 5s - loss: 0.7740 - acc: 0.5854
84/94 [=======================>..] - ETA: 4s - loss: 0.7735 - acc: 0.5847
85/94 [=======================>..] - ETA: 4s - loss: 0.7724 - acc: 0.5844
86/94 [========================>.] - ETA: 3s - loss: 0.7697 - acc: 0.5860
87/94 [========================>.] - ETA: 3s - loss: 0.7738 - acc: 0.5854
88/94 [========================>.] - ETA: 2s - loss: 0.7742 - acc: 0.5865
89/94 [=========================>..] - ETA: 2s - loss: 0.7746 - acc: 0.5856
90/94 [=========================>..] - ETA: 2s - loss: 0.7746 - acc: 0.5853
91/94 [=========================>..] - ETA: 1s - loss: 0.7741 - acc: 0.5844
92/94 [=========================>.] - ETA: 1s - loss: 0.7724 - acc: 0.5858
93/94 [=========================>.] - ETA: 0s - loss: 0.7739 - acc: 0.5849
94/94 [=========================>.] - ETA: 0s - loss: 0.7767 - acc: 0.5853
95/94 [==============================] - 187s 2s/step - loss: 0.7757 - acc: 0.5858 - val_loss: 0.7457 - val_acc: 0.5831
Epoch 9/20
1/94 [..........................] - ETA: 16s - loss: 0.6925 - acc: 0.5625
2/94 [..........................] - ETA: 15s - loss: 0.7230 - acc: 0.6094
3/94 [..........................] - ETA: 15s - loss: 0.7409 - acc: 0.5625
4/94 [>.........................] - ETA: 14s - loss: 0.7451 - acc: 0.5781
5/94 [>.........................] - ETA: 13s - loss: 0.7328 - acc: 0.5875
6/94 [>.........................] - ETA: 13s - loss: 0.7646 - acc: 0.5833
7/94 [=>........................] - ETA: 13s - loss: 0.7831 - acc: 0.5714
8/94 [=>........................] - ETA: 12s - loss: 0.7730 - acc: 0.5781
9/94 [=>........................] - ETA: 12s - loss: 0.7771 - acc: 0.5833
10/94 [==>.......................] - ETA: 12s - loss: 0.7606 - acc: 0.5875
11/94 [==>.......................] - ETA: 11s - loss: 0.7471 - acc: 0.6040
12/94 [==>.......................] - ETA: 11s - loss: 0.7427 - acc: 0.6136
13/94 [===>......................] - ETA: 11s - loss: 0.7434 - acc: 0.6217
14/94 [===>......................] - ETA: 11s - loss: 0.7561 - acc: 0.6264
15/94 [===>......................] - ETA: 12s - loss: 0.7669 - acc: 0.6138
16/94 [====>.....................] - ETA: 13s - loss: 0.7730 - acc: 0.6164
17/94 [====>.....................] - ETA: 15s - loss: 0.7620 - acc: 0.6316
18/94 [====>.....................] - ETA: 16s - loss: 0.7524 - acc: 0.6313
19/94 [=====>....................] - ETA: 17s - loss: 0.7611 - acc: 0.6260
20/94 [=====>....................] - ETA: 17s - loss: 0.7554 - acc: 0.6275
21/94 [=====>....................] - ETA: 18s - loss: 0.7603 - acc: 0.6185
22/94 [=====>....................] - ETA: 19s - loss: 0.7611 - acc: 0.6174
23/94 [======>...................] - ETA: 19s - loss: 0.7673 - acc: 0.6082
24/94 [======>...................] - ETA: 19s - loss: 0.7664 - acc: 0.6089
25/94 [======>...................] - ETA: 20s - loss: 0.7680 - acc: 0.6058
```

```
26/94 [======>...............] - ETA: 20s - loss: 0.7648 - acc: 0.6077
27/94 [======>...............] - ETA: 20s - loss: 0.7623 - acc: 0.6084
28/94 [======>...............] - ETA: 20s - loss: 0.7643 - acc: 0.6101
29/94 [======>...............] - ETA: 20s - loss: 0.7682 - acc: 0.6106
30/94 [======>...............] - ETA: 20s - loss: 0.7663 - acc: 0.6100
31/94 [======>...............] - ETA: 20s - loss: 0.7655 - acc: 0.6085
32/94 [======>...............] - ETA: 20s - loss: 0.7620 - acc: 0.6090
33/94 [======>...............] - ETA: 20s - loss: 0.7612 - acc: 0.6066
34/94 [======>...............] - ETA: 20s - loss: 0.7662 - acc: 0.6063
35/94 [=======>..............] - ETA: 20s - loss: 0.7712 - acc: 0.6023
36/94 [=======>..............] - ETA: 20s - loss: 0.7757 - acc: 0.6004
37/94 [=======>..............] - ETA: 20s - loss: 0.7748 - acc: 0.5976
38/94 [=======>..............] - ETA: 20s - loss: 0.7723 - acc: 0.5967
39/94 [========>.............] - ETA: 20s - loss: 0.7747 - acc: 0.5966
40/94 [========>.............] - ETA: 20s - loss: 0.7720 - acc: 0.5966
41/94 [========>.............] - ETA: 19s - loss: 0.7695 - acc: 0.5988
42/94 [========>.............] - ETA: 19s - loss: 0.7692 - acc: 0.5927
43/94 [=========>............] - ETA: 19s - loss: 0.7700 - acc: 0.5898
44/94 [=========>............] - ETA: 19s - loss: 0.7674 - acc: 0.5928
45/94 [=========>............] - ETA: 18s - loss: 0.7672 - acc: 0.5914
46/94 [=========>............] - ETA: 18s - loss: 0.7675 - acc: 0.5915
47/94 [==========>...........] - ETA: 18s - loss: 0.7661 - acc: 0.5902
48/94 [==========>...........] - ETA: 18s - loss: 0.7666 - acc: 0.5909
49/94 [==========>...........] - ETA: 17s - loss: 0.7629 - acc: 0.5922
50/94 [==========>...........] - ETA: 17s - loss: 0.7624 - acc: 0.5916
51/94 [===========>..........] - ETA: 17s - loss: 0.7596 - acc: 0.5947
52/94 [===========>..........] - ETA: 16s - loss: 0.7581 - acc: 0.5965
53/94 [===========>..........] - ETA: 16s - loss: 0.7575 - acc: 0.5965
54/94 [============>.........] - ETA: 16s - loss: 0.7574 - acc: 0.5976
55/94 [============>.........] - ETA: 15s - loss: 0.7563 - acc: 0.5947
56/94 [============>.........] - ETA: 15s - loss: 0.7553 - acc: 0.5969
57/94 [=============>........] - ETA: 15s - loss: 0.7537 - acc: 0.5968
58/94 [=============>........] - ETA: 14s - loss: 0.7505 - acc: 0.5984
59/94 [=============>........] - ETA: 14s - loss: 0.7492 - acc: 0.5978
60/94 [==============>.......] - ETA: 14s - loss: 0.7478 - acc: 0.5972
61/94 [==============>.......] - ETA: 13s - loss: 0.7449 - acc: 0.5987
62/94 [==============>.......] - ETA: 13s - loss: 0.7445 - acc: 0.5971
63/94 [==============>.......] - ETA: 13s - loss: 0.7481 - acc: 0.5955
64/94 [===============>......] - ETA: 12s - loss: 0.7531 - acc: 0.5931
65/94 [===============>......] - ETA: 12s - loss: 0.7562 - acc: 0.5912
66/94 [===============>......] - ETA: 11s - loss: 0.7555 - acc: 0.5907
67/94 [================>.....] - ETA: 11s - loss: 0.7557 - acc: 0.5903
68/94 [================>.....] - ETA: 11s - loss: 0.7545 - acc: 0.5904
69/94 [================>.....] - ETA: 10s - loss: 0.7562 - acc: 0.5913
70/94 [=================>....] - ETA: 10s - loss: 0.7566 - acc: 0.5922
71/94 [=================>....] - ETA: 9s - loss: 0.7578 - acc: 0.5901
72/94 [=================>....] - ETA: 9s - loss: 0.7574 - acc: 0.5910
73/94 [==================>...] - ETA: 9s - loss: 0.7557 - acc: 0.5902
74/94 [==================>...] - ETA: 8s - loss: 0.7543 - acc: 0.5902
75/94 [==================>...] - ETA: 8s - loss: 0.7560 - acc: 0.5898
76/94 [===================>..] - ETA: 7s - loss: 0.7541 - acc: 0.5911
77/94 [===================>..] - ETA: 7s - loss: 0.7571 - acc: 0.5899
78/94 [===================>..] - ETA: 7s - loss: 0.7562 - acc: 0.5896
79/94 [===================>..] - ETA: 6s - loss: 0.7545 - acc: 0.5908
80/94 [====================>.] - ETA: 6s - loss: 0.7539 - acc: 0.5901
81/94 [====================>.] - ETA: 5s - loss: 0.7555 - acc: 0.5909
82/94 [====================>.] - ETA: 5s - loss: 0.7582 - acc: 0.5886
83/94 [=====================>.] - ETA: 5s - loss: 0.7565 - acc: 0.5895
84/94 [=====================>.] - ETA: 4s - loss: 0.7557 - acc: 0.5891
85/94 [=======================>...] - ETA: 4s - loss: 0.7545 - acc: 0.5899
86/94 [=======================>...] - ETA: 3s - loss: 0.7540 - acc: 0.5903
87/94 [=======================>...] - ETA: 3s - loss: 0.7541 - acc: 0.5900
88/94 [=======================>...] - ETA: 2s - loss: 0.7544 - acc: 0.5894
89/94 [=======================>..] - ETA: 2s - loss: 0.7549 - acc: 0.5894
90/94 [=======================>..] - ETA: 2s - loss: 0.7534 - acc: 0.5905
91/94 [=======================>..] - ETA: 1s - loss: 0.7528 - acc: 0.5905
92/94 [========================>.] - ETA: 1s - loss: 0.7510 - acc: 0.5923
93/94 [========================>.] - ETA: 0s - loss: 0.7503 - acc: 0.5926
94/94 [========================>.] - ETA: 0s - loss: 0.7508 - acc: 0.5920
95/94 [==========================] - 187s 2s/step - loss: 0.7514 - acc: 0.5916 - val_loss: 0.7268 - val_acc:
0.6072
Epoch 10/20
 1/94 [.....................] - ETA: 16s - loss: 0.7006 - acc: 0.7188
 2/94 [.....................] - ETA: 15s - loss: 0.7390 - acc: 0.6719
 3/94 [.....................] - ETA: 15s - loss: 0.7503 - acc: 0.6562
 4/94 [>....................] - ETA: 14s - loss: 0.7322 - acc: 0.6719
 5/94 [>....................] - ETA: 14s - loss: 0.7379 - acc: 0.6500
 6/94 [>....................] - ETA: 13s - loss: 0.7310 - acc: 0.6302
 7/94 [=>...................] - ETA: 13s - loss: 0.7295 - acc: 0.6250
 8/94 [=>...................] - ETA: 12s - loss: 0.7463 - acc: 0.6172
 9/94 [=>...................] - ETA: 12s - loss: 0.7632 - acc: 0.6007
10/94 [==>..................] - ETA: 12s - loss: 0.7635 - acc: 0.6062
11/94 [==>..................] - ETA: 12s - loss: 0.7568 - acc: 0.6051
12/94 [==>..................] - ETA: 11s - loss: 0.7582 - acc: 0.6042
13/94 [===>.................] - ETA: 11s - loss: 0.7585 - acc: 0.5938
14/94 [===>.................] - ETA: 11s - loss: 0.7559 - acc: 0.5915
15/94 [===>.................] - ETA: 12s - loss: 0.7480 - acc: 0.5979
16/94 [====>................] - ETA: 13s - loss: 0.7493 - acc: 0.6035
17/94 [====>................] - ETA: 14s - loss: 0.7415 - acc: 0.6121
18/94 [====>................] - ETA: 16s - loss: 0.7387 - acc: 0.6163
19/94 [=====>...............] - ETA: 17s - loss: 0.7446 - acc: 0.6201
20/94 [=====>...............] - ETA: 17s - loss: 0.7362 - acc: 0.6266
21/94 [=====>...............] - ETA: 18s - loss: 0.7296 - acc: 0.6280
22/94 [=====>...............] - ETA: 18s - loss: 0.7245 - acc: 0.6307
23/94 [======>..............] - ETA: 19s - loss: 0.7246 - acc: 0.6277
24/94 [======>..............] - ETA: 19s - loss: 0.7272 - acc: 0.6250
25/94 [======>..............] - ETA: 20s - loss: 0.7247 - acc: 0.6275
26/94 [=======>.............] - ETA: 20s - loss: 0.7226 - acc: 0.6310
27/94 [=======>.............] - ETA: 20s - loss: 0.7270 - acc: 0.6285
28/94 [=======>.............] - ETA: 20s - loss: 0.7276 - acc: 0.6272
29/94 [=======>.............] - ETA: 20s - loss: 0.7273 - acc: 0.6239
30/94 [=======>.............] - ETA: 21s - loss: 0.7250 - acc: 0.6281
31/94 [=======>.............] - ETA: 21s - loss: 0.7273 - acc: 0.6250
32/94 [========>............] - ETA: 21s - loss: 0.7245 - acc: 0.6260
33/94 [========>............] - ETA: 21s - loss: 0.7208 - acc: 0.6278
34/94 [========>............] - ETA: 20s - loss: 0.7186 - acc: 0.6259
35/94 [=========>...........] - ETA: 20s - loss: 0.7133 - acc: 0.6286
36/94 [=========>...........] - ETA: 20s - loss: 0.7116 - acc: 0.6267
37/94 [=========>...........] - ETA: 20s - loss: 0.7150 - acc: 0.6267
38/94 [==========>..........] - ETA: 20s - loss: 0.7126 - acc: 0.6275
39/94 [==========>..........] - ETA: 20s - loss: 0.7119 - acc: 0.6266
40/94 [==========>..........] - ETA: 20s - loss: 0.7092 - acc: 0.6281
41/94 [==========>..........] - ETA: 19s - loss: 0.7076 - acc: 0.6288
42/94 [==========>..........] - ETA: 19s - loss: 0.7101 - acc: 0.6257
43/94 [===========>.........] - ETA: 19s - loss: 0.7142 - acc: 0.6265
44/94 [===========>.........] - ETA: 19s - loss: 0.7131 - acc: 0.6264
45/94 [===========>.........] - ETA: 18s - loss: 0.7094 - acc: 0.6271
46/94 [===========>.........] - ETA: 18s - loss: 0.7113 - acc: 0.6257
```

```
47/94 [============>...............] - ETA: 18s - loss: 0.7095 - acc: 0.6277
48/94 [============>...............] - ETA: 18s - loss: 0.7097 - acc: 0.6270
49/94 [=============>..............] - ETA: 17s - loss: 0.7118 - acc: 0.6237
50/94 [=============>..............] - ETA: 17s - loss: 0.7162 - acc: 0.6225
51/94 [=============>..............] - ETA: 17s - loss: 0.7161 - acc: 0.6225
52/94 [=============>..............] - ETA: 16s - loss: 0.7127 - acc: 0.6244
53/94 [=============>..............] - ETA: 16s - loss: 0.7103 - acc: 0.6262
54/94 [==============>.............] - ETA: 16s - loss: 0.7116 - acc: 0.6256
55/94 [==============>.............] - ETA: 15s - loss: 0.7150 - acc: 0.6233
56/94 [==============>.............] - ETA: 15s - loss: 0.7121 - acc: 0.6267
57/94 [===============>............] - ETA: 15s - loss: 0.7131 - acc: 0.6255
58/94 [===============>............] - ETA: 14s - loss: 0.7143 - acc: 0.6250
59/94 [===============>............] - ETA: 14s - loss: 0.7141 - acc: 0.6261
60/94 [================>...........] - ETA: 14s - loss: 0.7155 - acc: 0.6240
61/94 [================>...........] - ETA: 13s - loss: 0.7143 - acc: 0.6245
62/94 [================>...........] - ETA: 13s - loss: 0.7152 - acc: 0.6220
63/94 [=================>..........] - ETA: 13s - loss: 0.7140 - acc: 0.6230
64/94 [=================>..........] - ETA: 12s - loss: 0.7132 - acc: 0.6230
65/94 [=================>..........] - ETA: 12s - loss: 0.7127 - acc: 0.6221
66/94 [==================>.........] - ETA: 11s - loss: 0.7133 - acc: 0.6207
67/94 [==================>.........] - ETA: 11s - loss: 0.7146 - acc: 0.6213
68/94 [==================>.........] - ETA: 11s - loss: 0.7155 - acc: 0.6204
69/94 [===================>........] - ETA: 10s - loss: 0.7169 - acc: 0.6200
70/94 [===================>........] - ETA: 10s - loss: 0.7178 - acc: 0.6188
71/94 [===================>........] - ETA: 10s - loss: 0.7176 - acc: 0.6206
72/94 [====================>.......] - ETA: 9s - loss: 0.7158 - acc: 0.6211
73/94 [====================>.......] - ETA: 9s - loss: 0.7143 - acc: 0.6211
74/94 [====================>.......] - ETA: 8s - loss: 0.7142 - acc: 0.6220
75/94 [=====================>......] - ETA: 8s - loss: 0.7148 - acc: 0.6212
76/94 [=====================>......] - ETA: 8s - loss: 0.7136 - acc: 0.6221
77/94 [=====================>......] - ETA: 7s - loss: 0.7121 - acc: 0.6222
78/94 [======================>.....] - ETA: 7s - loss: 0.7113 - acc: 0.6221
79/94 [======================>.....] - ETA: 6s - loss: 0.7127 - acc: 0.6197
80/94 [======================>.....] - ETA: 6s - loss: 0.7122 - acc: 0.6202
81/94 [=======================>....] - ETA: 5s - loss: 0.7120 - acc: 0.6206
82/94 [=======================>....] - ETA: 5s - loss: 0.7089 - acc: 0.6215
83/94 [=======================>....] - ETA: 5s - loss: 0.7098 - acc: 0.6207
84/94 [========================>...] - ETA: 4s - loss: 0.7097 - acc: 0.6197
85/94 [========================>...] - ETA: 4s - loss: 0.7093 - acc: 0.6194
86/94 [========================>...] - ETA: 3s - loss: 0.7094 - acc: 0.6191
87/94 [=========================>..] - ETA: 3s - loss: 0.7092 - acc: 0.6199
88/94 [=========================>..] - ETA: 2s - loss: 0.7080 - acc: 0.6210
89/94 [=========================>..] - ETA: 2s - loss: 0.7062 - acc: 0.6224
90/94 [==========================>.] - ETA: 2s - loss: 0.7069 - acc: 0.6221
91/94 [==========================>.] - ETA: 1s - loss: 0.7068 - acc: 0.6232
92/94 [===========================>.] - ETA: 1s - loss: 0.7057 - acc: 0.6235
93/94 [===========================>.] - ETA: 0s - loss: 0.7050 - acc: 0.6242
94/94 [===========================>.] - ETA: 0s - loss: 0.7047 - acc: 0.6249
95/94 [============================] - 187s 2s/step - loss: 0.7049 - acc: 0.6246 - val_loss: 0.6672 - val_acc:
0.6261
Epoch 11/20
1/94 [..............................] - ETA: 16s - loss: 0.6236 - acc: 0.6250
2/94 [..............................] - ETA: 15s - loss: 0.5878 - acc: 0.6406
3/94 [..............................] - ETA: 14s - loss: 0.6668 - acc: 0.6250
4/94 [>.............................] - ETA: 14s - loss: 0.6746 - acc: 0.6250
5/94 [>.............................] - ETA: 13s - loss: 0.6631 - acc: 0.6188
6/94 [>.............................] - ETA: 13s - loss: 0.6572 - acc: 0.6302
7/94 [=>............................] - ETA: 13s - loss: 0.6411 - acc: 0.6250
8/94 [=>............................] - ETA: 12s - loss: 0.6337 - acc: 0.6367

9/94 [=>...........................] - ETA: 12s - loss: 0.6253 - acc: 0.6597
10/94 [==>..........................] - ETA: 12s - loss: 0.6284 - acc: 0.6687
11/94 [==>..........................] - ETA: 11s - loss: 0.6363 - acc: 0.6705
12/94 [==>..........................] - ETA: 11s - loss: 0.6376 - acc: 0.6536
13/94 [===>.........................] - ETA: 11s - loss: 0.6351 - acc: 0.6587
14/94 [===>.........................] - ETA: 11s - loss: 0.6402 - acc: 0.6562
15/94 [===>.........................] - ETA: 12s - loss: 0.6530 - acc: 0.6542
16/94 [====>........................] - ETA: 13s - loss: 0.6514 - acc: 0.6621
17/94 [====>........................] - ETA: 14s - loss: 0.6530 - acc: 0.6562
18/94 [====>........................] - ETA: 16s - loss: 0.6589 - acc: 0.6562
19/94 [=====>.......................] - ETA: 16s - loss: 0.6594 - acc: 0.6546
20/94 [=====>.......................] - ETA: 17s - loss: 0.6690 - acc: 0.6500
21/94 [=====>.......................] - ETA: 18s - loss: 0.6715 - acc: 0.6503
22/94 [=====>.......................] - ETA: 18s - loss: 0.6729 - acc: 0.6463
23/94 [======>......................] - ETA: 19s - loss: 0.6705 - acc: 0.6427
24/94 [======>......................] - ETA: 19s - loss: 0.6641 - acc: 0.6445
25/94 [======>......................] - ETA: 19s - loss: 0.6641 - acc: 0.6412
26/94 [=======>.....................] - ETA: 20s - loss: 0.6664 - acc: 0.6394
27/94 [=======>.....................] - ETA: 20s - loss: 0.6702 - acc: 0.6366
28/94 [=======>.....................] - ETA: 20s - loss: 0.6775 - acc: 0.6384
29/94 [========>....................] - ETA: 20s - loss: 0.6832 - acc: 0.6379
30/94 [========>....................] - ETA: 20s - loss: 0.6852 - acc: 0.6385
31/94 [========>....................] - ETA: 20s - loss: 0.6835 - acc: 0.6411
32/94 [=========>...................] - ETA: 20s - loss: 0.6849 - acc: 0.6387
33/94 [=========>...................] - ETA: 20s - loss: 0.6859 - acc: 0.6383
34/94 [=========>...................] - ETA: 20s - loss: 0.6841 - acc: 0.6379
35/94 [==========>..................] - ETA: 20s - loss: 0.6869 - acc: 0.6384
36/94 [==========>..................] - ETA: 20s - loss: 0.6863 - acc: 0.6415
37/94 [==========>..................] - ETA: 20s - loss: 0.6842 - acc: 0.6419
38/94 [===========>.................] - ETA: 20s - loss: 0.6835 - acc: 0.6402
39/94 [===========>.................] - ETA: 19s - loss: 0.6798 - acc: 0.6414
40/94 [===========>.................] - ETA: 19s - loss: 0.6781 - acc: 0.6402
41/94 [===========>.................] - ETA: 19s - loss: 0.6774 - acc: 0.6436
42/94 [============>................] - ETA: 19s - loss: 0.6767 - acc: 0.6447
43/94 [============>................] - ETA: 19s - loss: 0.6799 - acc: 0.6435
44/94 [============>................] - ETA: 18s - loss: 0.6786 - acc: 0.6438
45/94 [=============>...............] - ETA: 18s - loss: 0.6793 - acc: 0.6406
46/94 [=============>...............] - ETA: 18s - loss: 0.6783 - acc: 0.6396
47/94 [=============>...............] - ETA: 18s - loss: 0.6793 - acc: 0.6379
48/94 [==============>..............] - ETA: 17s - loss: 0.6802 - acc: 0.6383
49/94 [==============>..............] - ETA: 17s - loss: 0.6813 - acc: 0.6387
50/94 [==============>..............] - ETA: 17s - loss: 0.6832 - acc: 0.6397
51/94 [===============>.............] - ETA: 16s - loss: 0.6885 - acc: 0.6382
52/94 [===============>.............] - ETA: 16s - loss: 0.6889 - acc: 0.6361
53/94 [===============>.............] - ETA: 16s - loss: 0.6890 - acc: 0.6353
54/94 [================>............] - ETA: 15s - loss: 0.6919 - acc: 0.6328
55/94 [================>............] - ETA: 15s - loss: 0.6913 - acc: 0.6349
56/94 [================>............] - ETA: 15s - loss: 0.6902 - acc: 0.6336
57/94 [=================>...........] - ETA: 15s - loss: 0.6909 - acc: 0.6313
58/94 [=================>...........] - ETA: 14s - loss: 0.6939 - acc: 0.6296
59/94 [=================>...........] - ETA: 14s - loss: 0.6978 - acc: 0.6263
60/94 [=================>...........] - ETA: 13s - loss: 0.6973 - acc: 0.6263
61/94 [==================>..........] - ETA: 13s - loss: 0.6960 - acc: 0.6247
62/94 [==================>..........] - ETA: 13s - loss: 0.6964 - acc: 0.6237
63/94 [==================>..........] - ETA: 12s - loss: 0.6955 - acc: 0.6247
64/94 [===================>.........] - ETA: 12s - loss: 0.6943 - acc: 0.6257
65/94 [===================>.........] - ETA: 12s - loss: 0.6950 - acc: 0.6252
66/94 [===================>.........] - ETA: 11s - loss: 0.6943 - acc: 0.6243
67/94 [===================>.........] - ETA: 11s - loss: 0.6936 - acc: 0.6233
```

```
68/94 [===================>........] - ETA: 11s - loss: 0.6913 - acc: 0.6243
69/94 [===================>........] - ETA: 10s - loss: 0.6892 - acc: 0.6252
70/94 [====================>.......] - ETA: 10s - loss: 0.6912 - acc: 0.6234
71/94 [====================>.......] - ETA: 9s - loss: 0.6894 - acc: 0.6248
72/94 [====================>.......] - ETA: 9s - loss: 0.6895 - acc: 0.6226
73/94 [=====================>......] - ETA: 9s - loss: 0.6883 - acc: 0.6222
74/94 [=====================>......] - ETA: 8s - loss: 0.6857 - acc: 0.6248
75/94 [=====================>......] - ETA: 8s - loss: 0.6862 - acc: 0.6239
76/94 [======================>.....] - ETA: 7s - loss: 0.6900 - acc: 0.6215
77/94 [======================>.....] - ETA: 7s - loss: 0.6932 - acc: 0.6207
78/94 [======================>.....] - ETA: 7s - loss: 0.6911 - acc: 0.6224
79/94 [=======================>.....] - ETA: 6s - loss: 0.6933 - acc: 0.6216
80/94 [=======================>....] - ETA: 6s - loss: 0.6950 - acc: 0.6201
81/94 [=======================>....] - ETA: 5s - loss: 0.6944 - acc: 0.6209
82/94 [========================>....] - ETA: 5s - loss: 0.6942 - acc: 0.6198
83/94 [========================>...] - ETA: 5s - loss: 0.6943 - acc: 0.6222
84/94 [========================>...] - ETA: 4s - loss: 0.6933 - acc: 0.6237
85/94 [=========================>...] - ETA: 4s - loss: 0.6918 - acc: 0.6237
86/94 [=========================>..] - ETA: 3s - loss: 0.6894 - acc: 0.6244
87/94 [=========================>..] - ETA: 3s - loss: 0.6886 - acc: 0.6252
88/94 [==========================>..] - ETA: 2s - loss: 0.6880 - acc: 0.6262
89/94 [==========================>..] - ETA: 2s - loss: 0.6869 - acc: 0.6262
90/94 [===========================>..] - ETA: 2s - loss: 0.6873 - acc: 0.6248
91/94 [===========================>.] - ETA: 1s - loss: 0.6883 - acc: 0.6234
92/94 [===========================>.] - ETA: 1s - loss: 0.6885 - acc: 0.6224
93/94 [============================>.] - ETA: 0s - loss: 0.6889 - acc: 0.6221
94/94 [============================>.] - ETA: 0s - loss: 0.6879 - acc: 0.6235
95/94 [=============================] - 187s 2s/step - loss: 0.6871 - acc: 0.6238 - val_loss: 0.6472 - val_acc: 0.6340
Epoch 12/20
1/94 [..............................] - ETA: 15s - loss: 0.6703 - acc: 0.5000
2/94 [..............................] - ETA: 15s - loss: 0.5116 - acc: 0.7031
3/94 [..............................] - ETA: 14s - loss: 0.5416 - acc: 0.6667
4/94 [>.............................] - ETA: 13s - loss: 0.5488 - acc: 0.6641
5/94 [>.............................] - ETA: 13s - loss: 0.5682 - acc: 0.6875
6/94 [>.............................] - ETA: 12s - loss: 0.5836 - acc: 0.6823
7/94 [=>............................] - ETA: 12s - loss: 0.5846 - acc: 0.6741
8/94 [=>............................] - ETA: 12s - loss: 0.6004 - acc: 0.6836
9/94 [=>............................] - ETA: 12s - loss: 0.5885 - acc: 0.7049
10/94 [==>...........................] - ETA: 11s - loss: 0.6108 - acc: 0.6844
11/94 [==>...........................] - ETA: 11s - loss: 0.6245 - acc: 0.6705
12/94 [==>...........................] - ETA: 11s - loss: 0.6259 - acc: 0.6693
13/94 [===>..........................] - ETA: 11s - loss: 0.6284 - acc: 0.6707
14/94 [===>..........................] - ETA: 11s - loss: 0.6332 - acc: 0.6652
15/94 [===>..........................] - ETA: 12s - loss: 0.6220 - acc: 0.6771
16/94 [====>.........................] - ETA: 13s - loss: 0.6171 - acc: 0.6797
17/94 [====>.........................] - ETA: 14s - loss: 0.6230 - acc: 0.6783
18/94 [====>.........................] - ETA: 15s - loss: 0.6355 - acc: 0.6701
19/94 [=====>........................] - ETA: 16s - loss: 0.6380 - acc: 0.6694
20/94 [=====>........................] - ETA: 17s - loss: 0.6443 - acc: 0.6641
21/94 [=====>........................] - ETA: 18s - loss: 0.6468 - acc: 0.6548
22/94 [=====>........................] - ETA: 18s - loss: 0.6446 - acc: 0.6562
23/94 [======>.......................] - ETA: 19s - loss: 0.6525 - acc: 0.6454
24/94 [======>.......................] - ETA: 19s - loss: 0.6589 - acc: 0.6445
25/94 [======>.......................] - ETA: 20s - loss: 0.6531 - acc: 0.6512
26/94 [=======>......................] - ETA: 20s - loss: 0.6507 - acc: 0.6526
27/94 [=======>......................] - ETA: 20s - loss: 0.6529 - acc: 0.6516
28/94 [=======>......................] - ETA: 20s - loss: 0.6550 - acc: 0.6507
29/94 [========>.....................] - ETA: 20s - loss: 0.6577 - acc: 0.6487
30/94 [========>.....................] - ETA: 21s - loss: 0.6614 - acc: 0.6469
31/94 [========>.....................] - ETA: 21s - loss: 0.6554 - acc: 0.6492
32/94 [=========>....................] - ETA: 21s - loss: 0.6601 - acc: 0.6445
33/94 [=========>....................] - ETA: 21s - loss: 0.6597 - acc: 0.6449
34/94 [=========>....................] - ETA: 20s - loss: 0.6604 - acc: 0.6443
35/94 [==========>...................] - ETA: 20s - loss: 0.6643 - acc: 0.6455
36/94 [==========>...................] - ETA: 20s - loss: 0.6660 - acc: 0.6441
37/94 [==========>...................] - ETA: 20s - loss: 0.6628 - acc: 0.6470
38/94 [===========>..................] - ETA: 20s - loss: 0.6641 - acc: 0.6488
39/94 [===========>..................] - ETA: 20s - loss: 0.6643 - acc: 0.6474
40/94 [===========>..................] - ETA: 20s - loss: 0.6629 - acc: 0.6500
41/94 [============>.................] - ETA: 19s - loss: 0.6601 - acc: 0.6494
42/94 [============>.................] - ETA: 19s - loss: 0.6603 - acc: 0.6458
43/94 [============>.................] - ETA: 19s - loss: 0.6635 - acc: 0.6424
44/94 [=============>................] - ETA: 19s - loss: 0.6628 - acc: 0.6428
45/94 [=============>................] - ETA: 18s - loss: 0.6610 - acc: 0.6417
46/94 [=============>................] - ETA: 18s - loss: 0.6596 - acc: 0.6440
47/94 [==============>...............] - ETA: 18s - loss: 0.6617 - acc: 0.6426
48/94 [==============>...............] - ETA: 18s - loss: 0.6629 - acc: 0.6409
49/94 [==============>...............] - ETA: 17s - loss: 0.6645 - acc: 0.6393
50/94 [==============>...............] - ETA: 17s - loss: 0.6670 - acc: 0.6390
51/94 [===============>..............] - ETA: 17s - loss: 0.6646 - acc: 0.6431
52/94 [===============>..............] - ETA: 16s - loss: 0.6642 - acc: 0.6433
53/94 [===============>..............] - ETA: 16s - loss: 0.6644 - acc: 0.6453
54/94 [================>.............] - ETA: 16s - loss: 0.6696 - acc: 0.6420
55/94 [================>.............] - ETA: 15s - loss: 0.6699 - acc: 0.6417
56/94 [================>.............] - ETA: 15s - loss: 0.6714 - acc: 0.6420
57/94 [=================>............] - ETA: 15s - loss: 0.6724 - acc: 0.6406
58/94 [=================>............] - ETA: 14s - loss: 0.6708 - acc: 0.6414
59/94 [=================>............] - ETA: 14s - loss: 0.6697 - acc: 0.6406
60/94 [==================>...........] - ETA: 14s - loss: 0.6709 - acc: 0.6398
61/94 [==================>...........] - ETA: 13s - loss: 0.6693 - acc: 0.6416
62/94 [==================>...........] - ETA: 13s - loss: 0.6691 - acc: 0.6419
63/94 [===================>..........] - ETA: 13s - loss: 0.6674 - acc: 0.6446
64/94 [===================>..........] - ETA: 12s - loss: 0.6666 - acc: 0.6448
65/94 [===================>..........] - ETA: 12s - loss: 0.6658 - acc: 0.6459
66/94 [====================>.........] - ETA: 11s - loss: 0.6653 - acc: 0.6451
67/94 [====================>.........] - ETA: 11s - loss: 0.6658 - acc: 0.6429
68/94 [====================>.........] - ETA: 11s - loss: 0.6651 - acc: 0.6450
69/94 [=====================>........] - ETA: 10s - loss: 0.6645 - acc: 0.6460
70/94 [=====================>........] - ETA: 10s - loss: 0.6639 - acc: 0.6466
71/94 [=====================>........] - ETA: 10s - loss: 0.6653 - acc: 0.6450
72/94 [======================>.......] - ETA: 9s - loss: 0.6634 - acc: 0.6456
73/94 [======================>.......] - ETA: 9s - loss: 0.6633 - acc: 0.6457
74/94 [======================>.......] - ETA: 8s - loss: 0.6658 - acc: 0.6446
75/94 [=======================>......] - ETA: 8s - loss: 0.6655 - acc: 0.6452
76/94 [=======================>......] - ETA: 8s - loss: 0.6674 - acc: 0.6445
77/94 [=======================>......] - ETA: 7s - loss: 0.6655 - acc: 0.6459
78/94 [========================>.....] - ETA: 7s - loss: 0.6657 - acc: 0.6444
79/94 [========================>.....] - ETA: 6s - loss: 0.6639 - acc: 0.6454
80/94 [========================>.....] - ETA: 6s - loss: 0.6665 - acc: 0.6428
81/94 [=========================>....] - ETA: 5s - loss: 0.6681 - acc: 0.6418
82/94 [=========================>....] - ETA: 5s - loss: 0.6797 - acc: 0.6381
83/94 [=========================>....] - ETA: 5s - loss: 0.6791 - acc: 0.6391
84/94 [==========================>...] - ETA: 4s - loss: 0.6810 - acc: 0.6393
85/94 [==========================>...] - ETA: 4s - loss: 0.6810 - acc: 0.6384
86/94 [==========================>...] - ETA: 3s - loss: 0.6805 - acc: 0.6390
87/94 [===========================>..] - ETA: 3s - loss: 0.6781 - acc: 0.6403
88/94 [===========================>..] - ETA: 2s - loss: 0.6779 - acc: 0.6394
```

```
89/94 [============================>..] - ETA: 2s - loss: 0.6767 - acc: 0.6392
90/94 [============================>..] - ETA: 2s - loss: 0.6747 - acc: 0.6404
91/94 [============================>..] - ETA: 1s - loss: 0.6737 - acc: 0.6406
92/94 [============================>.] - ETA: 1s - loss: 0.6732 - acc: 0.6418
93/94 [============================>.] - ETA: 0s - loss: 0.6752 - acc: 0.6423
94/94 [============================>.] - ETA: 0s - loss: 0.6743 - acc: 0.6421
95/94 [==============================] - 187s 2s/step - loss: 0.6725 - acc: 0.6426 - val_loss: 0.6551 - val_acc: 0.6422
Epoch 13/20
 1/94 [..............................] - ETA: 16s - loss: 0.4698 - acc: 0.8438
 2/94 [..............................] - ETA: 14s - loss: 0.5291 - acc: 0.7680
 3/94 [..............................] - ETA: 13s - loss: 0.5527 - acc: 0.7099
 4/94 [>.............................] - ETA: 13s - loss: 0.5585 - acc: 0.7121
 5/94 [>.............................] - ETA: 13s - loss: 0.5838 - acc: 0.6822
 6/94 [>.............................] - ETA: 12s - loss: 0.6014 - acc: 0.6675
 7/94 [=>............................] - ETA: 12s - loss: 0.5991 - acc: 0.6659
 8/94 [=>............................] - ETA: 12s - loss: 0.6054 - acc: 0.6569
 9/94 [=>............................] - ETA: 12s - loss: 0.5964 - acc: 0.6637
10/94 [==>...........................] - ETA: 11s - loss: 0.6148 - acc: 0.6692
11/94 [==>...........................] - ETA: 11s - loss: 0.6167 - acc: 0.6766
12/94 [==>...........................] - ETA: 11s - loss: 0.6298 - acc: 0.6697
13/94 [===>..........................] - ETA: 11s - loss: 0.6278 - acc: 0.6734
14/94 [===>..........................] - ETA: 11s - loss: 0.6281 - acc: 0.6700
15/94 [===>..........................] - ETA: 11s - loss: 0.6241 - acc: 0.6691
16/94 [====>.........................] - ETA: 13s - loss: 0.6197 - acc: 0.6702
17/94 [====>.........................] - ETA: 14s - loss: 0.6212 - acc: 0.6694
18/94 [====>.........................] - ETA: 15s - loss: 0.6276 - acc: 0.6669
19/94 [=====>........................] - ETA: 16s - loss: 0.6225 - acc: 0.6631
20/94 [=====>........................] - ETA: 17s - loss: 0.6233 - acc: 0.6534
21/94 [=====>........................] - ETA: 18s - loss: 0.6351 - acc: 0.6520
22/94 [=====>........................] - ETA: 18s - loss: 0.6386 - acc: 0.6508
23/94 [======>.......................] - ETA: 19s - loss: 0.6299 - acc: 0.6578
24/94 [======>.......................] - ETA: 19s - loss: 0.6259 - acc: 0.6565
25/94 [======>.......................] - ETA: 19s - loss: 0.6259 - acc: 0.6514
26/94 [=======>......................] - ETA: 20s - loss: 0.6348 - acc: 0.6504
27/94 [=======>......................] - ETA: 20s - loss: 0.6333 - acc: 0.6472
28/94 [=======>......................] - ETA: 20s - loss: 0.6377 - acc: 0.6441
29/94 [========>.....................] - ETA: 20s - loss: 0.6400 - acc: 0.6435
30/94 [========>.....................] - ETA: 20s - loss: 0.6350 - acc: 0.6439
31/94 [========>.....................] - ETA: 20s - loss: 0.6318 - acc: 0.6453
32/94 [=========>....................] - ETA: 20s - loss: 0.6323 - acc: 0.6447
33/94 [=========>....................] - ETA: 20s - loss: 0.6318 - acc: 0.6469
34/94 [=========>....................] - ETA: 20s - loss: 0.6387 - acc: 0.6435
35/94 [==========>...................] - ETA: 20s - loss: 0.6414 - acc: 0.6403
36/94 [==========>...................] - ETA: 20s - loss: 0.6412 - acc: 0.6425
37/94 [==========>...................] - ETA: 20s - loss: 0.6411 - acc: 0.6437
38/94 [===========>..................] - ETA: 20s - loss: 0.6379 - acc: 0.6457
39/94 [===========>..................] - ETA: 19s - loss: 0.6390 - acc: 0.6452
40/94 [===========>..................] - ETA: 19s - loss: 0.6357 - acc: 0.6447
41/94 [============>.................] - ETA: 19s - loss: 0.6352 - acc: 0.6457
42/94 [============>.................] - ETA: 19s - loss: 0.6327 - acc: 0.6474
43/94 [============>.................] - ETA: 19s - loss: 0.6311 - acc: 0.6491
44/94 [=============>................] - ETA: 18s - loss: 0.6289 - acc: 0.6493
45/94 [=============>................] - ETA: 18s - loss: 0.6286 - acc: 0.6480
46/94 [=============>................] - ETA: 18s - loss: 0.6267 - acc: 0.6482
47/94 [==============>...............] - ETA: 18s - loss: 0.6263 - acc: 0.6477
48/94 [==============>...............] - ETA: 17s - loss: 0.6227 - acc: 0.6505
49/94 [==============>...............] - ETA: 17s - loss: 0.6244 - acc: 0.6493
50/94 [===============>..............] - ETA: 17s - loss: 0.6257 - acc: 0.6470
51/94 [===============>..............] - ETA: 16s - loss: 0.6236 - acc: 0.6465
52/94 [===============>..............] - ETA: 16s - loss: 0.6248 - acc: 0.6461
53/94 [================>.............] - ETA: 16s - loss: 0.6275 - acc: 0.6451
54/94 [================>.............] - ETA: 16s - loss: 0.6256 - acc: 0.6471
55/94 [================>.............] - ETA: 15s - loss: 0.6259 - acc: 0.6478
56/94 [================>.............] - ETA: 15s - loss: 0.6255 - acc: 0.6474
57/94 [=================>............] - ETA: 15s - loss: 0.6276 - acc: 0.6476
58/94 [=================>............] - ETA: 14s - loss: 0.6267 - acc: 0.6483
59/94 [=================>............] - ETA: 14s - loss: 0.6306 - acc: 0.6457
60/94 [==================>...........] - ETA: 14s - loss: 0.6277 - acc: 0.6470
61/94 [==================>...........] - ETA: 13s - loss: 0.6300 - acc: 0.6435
62/94 [==================>...........] - ETA: 13s - loss: 0.6292 - acc: 0.6447
63/94 [===================>..........] - ETA: 12s - loss: 0.6300 - acc: 0.6434
64/94 [===================>..........] - ETA: 12s - loss: 0.6325 - acc: 0.6422
65/94 [===================>..........] - ETA: 12s - loss: 0.6338 - acc: 0.6429
66/94 [====================>.........] - ETA: 11s - loss: 0.6350 - acc: 0.6426
67/94 [====================>.........] - ETA: 11s - loss: 0.6373 - acc: 0.6409
68/94 [====================>.........] - ETA: 11s - loss: 0.6408 - acc: 0.6407
69/94 [=====================>........] - ETA: 10s - loss: 0.6396 - acc: 0.6414
70/94 [=====================>........] - ETA: 10s - loss: 0.6397 - acc: 0.6407
71/94 [=====================>........] - ETA: 9s - loss: 0.6404 - acc: 0.6409
72/94 [======================>.......] - ETA: 9s - loss: 0.6397 - acc: 0.6398
73/94 [======================>.......] - ETA: 9s - loss: 0.6382 - acc: 0.6405
74/94 [======================>.......] - ETA: 8s - loss: 0.6384 - acc: 0.6415
75/94 [=======================>......] - ETA: 8s - loss: 0.6394 - acc: 0.6401
76/94 [=======================>......] - ETA: 7s - loss: 0.6397 - acc: 0.6390
77/94 [=======================>......] - ETA: 7s - loss: 0.6388 - acc: 0.6385
78/94 [========================>.....] - ETA: 7s - loss: 0.6409 - acc: 0.6351
79/94 [========================>.....] - ETA: 6s - loss: 0.6406 - acc: 0.6357
80/94 [========================>.....] - ETA: 6s - loss: 0.6398 - acc: 0.6360
81/94 [=========================>....] - ETA: 5s - loss: 0.6395 - acc: 0.6370
82/94 [=========================>....] - ETA: 5s - loss: 0.6376 - acc: 0.6392
83/94 [=========================>....] - ETA: 5s - loss: 0.6374 - acc: 0.6394
84/94 [==========================>...] - ETA: 4s - loss: 0.6365 - acc: 0.6385
85/94 [==========================>...] - ETA: 4s - loss: 0.6370 - acc: 0.6390
86/94 [===========================>..] - ETA: 3s - loss: 0.6391 - acc: 0.6374
87/94 [===========================>..] - ETA: 3s - loss: 0.6415 - acc: 0.6355
88/94 [===========================>..] - ETA: 2s - loss: 0.6413 - acc: 0.6354
89/94 [============================>..] - ETA: 2s - loss: 0.6407 - acc: 0.6363
90/94 [============================>..] - ETA: 2s - loss: 0.6389 - acc: 0.6386
91/94 [============================>..] - ETA: 1s - loss: 0.6385 - acc: 0.6395
92/94 [============================>.] - ETA: 1s - loss: 0.6373 - acc: 0.6407
93/94 [============================>.] - ETA: 0s - loss: 0.6371 - acc: 0.6412
94/94 [============================>.] - ETA: 0s - loss: 0.6372 - acc: 0.6407
95/94 [==============================] - 186s 2s/step - loss: 0.6370 - acc: 0.6405 - val_loss: 0.5923 - val_acc: 0.6561
Epoch 14/20
 1/94 [..............................] - ETA: 16s - loss: 0.4381 - acc: 0.7500
 2/94 [..............................] - ETA: 15s - loss: 0.4878 - acc: 0.6562
 3/94 [..............................] - ETA: 14s - loss: 0.5752 - acc: 0.6875
 4/94 [>.............................] - ETA: 14s - loss: 0.6128 - acc: 0.6641
 5/94 [>.............................] - ETA: 13s - loss: 0.5686 - acc: 0.7000
 6/94 [>.............................] - ETA: 13s - loss: 0.5699 - acc: 0.6979
 7/94 [=>............................] - ETA: 12s - loss: 0.5729 - acc: 0.6875
 8/94 [=>............................] - ETA: 12s - loss: 0.5742 - acc: 0.6797
 9/94 [=>............................] - ETA: 12s - loss: 0.5650 - acc: 0.6806
10/94 [==>...........................] - ETA: 11s - loss: 0.5618 - acc: 0.6781
11/94 [==>...........................] - ETA: 11s - loss: 0.5620 - acc: 0.6705
12/94 [==>...........................] - ETA: 11s - loss: 0.5618 - acc: 0.6771
```

```
13/94 [===>.........................] - ETA: 11s - loss: 0.5630 - acc: 0.6755
14/94 [===>.........................] - ETA: 11s - loss: 0.5708 - acc: 0.6719
15/94 [===>.........................] - ETA: 11s - loss: 0.5636 - acc: 0.6708
16/94 [====>........................] - ETA: 13s - loss: 0.5683 - acc: 0.6758
17/94 [====>........................] - ETA: 14s - loss: 0.5763 - acc: 0.6765
18/94 [=====>.......................] - ETA: 15s - loss: 0.5770 - acc: 0.6771
19/94 [=====>.......................] - ETA: 16s - loss: 0.5730 - acc: 0.6809
20/94 [=====>.......................] - ETA: 17s - loss: 0.5780 - acc: 0.6703
21/94 [=====>.......................] - ETA: 18s - loss: 0.5740 - acc: 0.6771
22/94 [=====>.......................] - ETA: 18s - loss: 0.5732 - acc: 0.6804
23/94 [======>......................] - ETA: 19s - loss: 0.5776 - acc: 0.6753
24/94 [======>......................] - ETA: 19s - loss: 0.5808 - acc: 0.6760
25/94 [======>......................] - ETA: 19s - loss: 0.5781 - acc: 0.6777
26/94 [=======>.....................] - ETA: 19s - loss: 0.5749 - acc: 0.6781
27/94 [=======>.....................] - ETA: 20s - loss: 0.5749 - acc: 0.6773
28/94 [=======>.....................] - ETA: 20s - loss: 0.5754 - acc: 0.6799
29/94 [========>....................] - ETA: 20s - loss: 0.5765 - acc: 0.6780
30/94 [========>....................] - ETA: 20s - loss: 0.5775 - acc: 0.6731
31/94 [========>....................] - ETA: 20s - loss: 0.5827 - acc: 0.6695
32/94 [=========>...................] - ETA: 20s - loss: 0.6007 - acc: 0.6632
33/94 [=========>...................] - ETA: 20s - loss: 0.6045 - acc: 0.6592
34/94 [=========>...................] - ETA: 20s - loss: 0.6021 - acc: 0.6582
35/94 [==========>..................] - ETA: 20s - loss: 0.6028 - acc: 0.6537
36/94 [==========>..................] - ETA: 20s - loss: 0.6041 - acc: 0.6555
37/94 [==========>..................] - ETA: 20s - loss: 0.6088 - acc: 0.6547
38/94 [===========>.................] - ETA: 19s - loss: 0.6098 - acc: 0.6506
39/94 [===========>.................] - ETA: 19s - loss: 0.6139 - acc: 0.6516
40/94 [===========>.................] - ETA: 19s - loss: 0.6155 - acc: 0.6486
41/94 [============>................] - ETA: 19s - loss: 0.6143 - acc: 0.6487
42/94 [============>................] - ETA: 19s - loss: 0.6151 - acc: 0.6504
43/94 [============>................] - ETA: 19s - loss: 0.6129 - acc: 0.6513
44/94 [=============>...............] - ETA: 18s - loss: 0.6166 - acc: 0.6507
45/94 [=============>...............] - ETA: 18s - loss: 0.6192 - acc: 0.6487
46/94 [=============>...............] - ETA: 18s - loss: 0.6201 - acc: 0.6468
47/94 [==============>..............] - ETA: 18s - loss: 0.6212 - acc: 0.6450
48/94 [==============>..............] - ETA: 17s - loss: 0.6180 - acc: 0.6505
49/94 [==============>..............] - ETA: 17s - loss: 0.6178 - acc: 0.6500
50/94 [==============>..............] - ETA: 17s - loss: 0.6170 - acc: 0.6513
51/94 [===============>.............] - ETA: 16s - loss: 0.6166 - acc: 0.6508
52/94 [===============>.............] - ETA: 16s - loss: 0.6151 - acc: 0.6533
53/94 [===============>.............] - ETA: 16s - loss: 0.6158 - acc: 0.6528
54/94 [================>............] - ETA: 16s - loss: 0.6143 - acc: 0.6534
55/94 [================>............] - ETA: 15s - loss: 0.6138 - acc: 0.6529
56/94 [================>............] - ETA: 15s - loss: 0.6126 - acc: 0.6535
57/94 [=================>...........] - ETA: 15s - loss: 0.6141 - acc: 0.6498
58/94 [=================>...........] - ETA: 14s - loss: 0.6179 - acc: 0.6499
59/94 [=================>...........] - ETA: 14s - loss: 0.6255 - acc: 0.6489
60/94 [==================>..........] - ETA: 14s - loss: 0.6236 - acc: 0.6506
61/94 [==================>..........] - ETA: 13s - loss: 0.6235 - acc: 0.6507
62/94 [==================>..........] - ETA: 13s - loss: 0.6241 - acc: 0.6508
63/94 [===================>.........] - ETA: 12s - loss: 0.6243 - acc: 0.6514
64/94 [===================>.........] - ETA: 12s - loss: 0.6235 - acc: 0.6510
65/94 [===================>.........] - ETA: 12s - loss: 0.6241 - acc: 0.6491
66/94 [====================>........] - ETA: 11s - loss: 0.6220 - acc: 0.6506
67/94 [====================>........] - ETA: 11s - loss: 0.6236 - acc: 0.6498
68/94 [====================>........] - ETA: 11s - loss: 0.6265 - acc: 0.6499
69/94 [=====================>.......] - ETA: 10s - loss: 0.6286 - acc: 0.6495
70/94 [=====================>.......] - ETA: 10s - loss: 0.6368 - acc: 0.6483
71/94 [=====================>.......] - ETA: 9s - loss: 0.6351 - acc: 0.6497
72/94 [=====================>........] - ETA: 9s - loss: 0.6365 - acc: 0.6494
73/94 [======================>.......] - ETA: 9s - loss: 0.6353 - acc: 0.6490
74/94 [======================>.......] - ETA: 8s - loss: 0.6360 - acc: 0.6496
75/94 [======================>.......] - ETA: 8s - loss: 0.6347 - acc: 0.6509
76/94 [=======================>......] - ETA: 7s - loss: 0.6322 - acc: 0.6538
77/94 [=======================>......] - ETA: 7s - loss: 0.6298 - acc: 0.6547
78/94 [=======================>......] - ETA: 7s - loss: 0.6291 - acc: 0.6551
79/94 [=======================>......] - ETA: 6s - loss: 0.6301 - acc: 0.6535
80/94 [========================>.....] - ETA: 6s - loss: 0.6303 - acc: 0.6528
81/94 [========================>.....] - ETA: 5s - loss: 0.6300 - acc: 0.6532
82/94 [========================>.....] - ETA: 5s - loss: 0.6301 - acc: 0.6521
83/94 [=========================>....] - ETA: 5s - loss: 0.6291 - acc: 0.6522
84/94 [=========================>....] - ETA: 4s - loss: 0.6304 - acc: 0.6518
85/94 [=========================>....] - ETA: 4s - loss: 0.6308 - acc: 0.6504
86/94 [==========================>...] - ETA: 3s - loss: 0.6317 - acc: 0.6494
87/94 [==========================>...] - ETA: 3s - loss: 0.6301 - acc: 0.6506
88/94 [==========================>...] - ETA: 2s - loss: 0.6304 - acc: 0.6492
89/94 [===========================>..] - ETA: 2s - loss: 0.6310 - acc: 0.6489
90/94 [===========================>..] - ETA: 2s - loss: 0.6304 - acc: 0.6487
91/94 [===========================>..] - ETA: 1s - loss: 0.6280 - acc: 0.6505
92/94 [===========================>.] - ETA: 1s - loss: 0.6268 - acc: 0.6512
93/94 [===========================>.] - ETA: 0s - loss: 0.6266 - acc: 0.6513
94/94 [===========================>.] - ETA: 0s - loss: 0.6268 - acc: 0.6516
95/94 [=============================] - 186s 2s/step - loss: 0.6250 - acc: 0.6527 - val_loss: 0.6110 - val_acc:
0.6447
Epoch 15/20
 1/94 [..............................] - ETA: 15s - loss: 0.4758 - acc: 0.6875
 2/94 [..............................] - ETA: 15s - loss: 0.4924 - acc: 0.7031
 3/94 [..............................] - ETA: 14s - loss: 0.5832 - acc: 0.6354
 4/94 [>.............................] - ETA: 14s - loss: 0.6564 - acc: 0.6094
 5/94 [>.............................] - ETA: 13s - loss: 0.6530 - acc: 0.6375
 6/94 [>.............................] - ETA: 13s - loss: 0.6490 - acc: 0.6406
 7/94 [=>............................] - ETA: 12s - loss: 0.6686 - acc: 0.6518
 8/94 [=>............................] - ETA: 12s - loss: 0.6710 - acc: 0.6484
 9/94 [=>............................] - ETA: 12s - loss: 0.6636 - acc: 0.6424
10/94 [==>...........................] - ETA: 11s - loss: 0.6440 - acc: 0.6531
11/94 [==>...........................] - ETA: 11s - loss: 0.6314 - acc: 0.6562
12/94 [==>...........................] - ETA: 11s - loss: 0.6263 - acc: 0.6641
13/94 [===>..........................] - ETA: 11s - loss: 0.6180 - acc: 0.6611
14/94 [===>..........................] - ETA: 11s - loss: 0.6103 - acc: 0.6652
15/94 [===>..........................] - ETA: 12s - loss: 0.6065 - acc: 0.6667
16/94 [====>.........................] - ETA: 13s - loss: 0.5967 - acc: 0.6680
17/94 [====>.........................] - ETA: 14s - loss: 0.5941 - acc: 0.6691
18/94 [====>.........................] - ETA: 15s - loss: 0.6087 - acc: 0.6684
19/94 [=====>........................] - ETA: 16s - loss: 0.6103 - acc: 0.6628
20/94 [=====>........................] - ETA: 17s - loss: 0.6101 - acc: 0.6656
21/94 [=====>........................] - ETA: 18s - loss: 0.6036 - acc: 0.6682
22/94 [=====>........................] - ETA: 18s - loss: 0.6012 - acc: 0.6719
23/94 [======>.......................] - ETA: 19s - loss: 0.5950 - acc: 0.6793
24/94 [======>.......................] - ETA: 19s - loss: 0.5970 - acc: 0.6719
25/94 [======>.......................] - ETA: 19s - loss: 0.5958 - acc: 0.6700
26/94 [=======>......................] - ETA: 20s - loss: 0.5944 - acc: 0.6695
27/94 [=======>......................] - ETA: 20s - loss: 0.6003 - acc: 0.6678
28/94 [=======>......................] - ETA: 20s - loss: 0.5981 - acc: 0.6730
29/94 [========>.....................] - ETA: 20s - loss: 0.5959 - acc: 0.6724
30/94 [========>.....................] - ETA: 20s - loss: 0.5919 - acc: 0.6760
31/94 [========>.....................] - ETA: 20s - loss: 0.5917 - acc: 0.6744
32/94 [=========>....................] - ETA: 20s - loss: 0.5885 - acc: 0.6768
33/94 [=========>....................] - ETA: 20s - loss: 0.5871 - acc: 0.6761
```

```
34/94 [=========>...................] - ETA: 20s - loss: 0.5809 - acc: 0.6792
35/94 [==========>..................] - ETA: 20s - loss: 0.5837 - acc: 0.6750
36/94 [==========>..................] - ETA: 20s - loss: 0.5843 - acc: 0.6701
37/94 [==========>..................] - ETA: 20s - loss: 0.5821 - acc: 0.6706
38/94 [===========>.................] - ETA: 19s - loss: 0.5822 - acc: 0.6732
39/94 [===========>.................] - ETA: 19s - loss: 0.5802 - acc: 0.6744
40/94 [===========>.................] - ETA: 19s - loss: 0.5794 - acc: 0.6731
41/94 [============>................] - ETA: 19s - loss: 0.5810 - acc: 0.6689
42/94 [============>................] - ETA: 19s - loss: 0.5808 - acc: 0.6679
43/94 [============>................] - ETA: 18s - loss: 0.5813 - acc: 0.6676
44/94 [=============>...............] - ETA: 18s - loss: 0.5820 - acc: 0.6659
45/94 [=============>...............] - ETA: 18s - loss: 0.5815 - acc: 0.6699
46/94 [=============>...............] - ETA: 18s - loss: 0.5787 - acc: 0.6709
47/94 [==============>..............] - ETA: 17s - loss: 0.5812 - acc: 0.6713
48/94 [==============>..............] - ETA: 17s - loss: 0.5794 - acc: 0.6716
49/94 [==============>..............] - ETA: 17s - loss: 0.5840 - acc: 0.6707
50/94 [===============>.............] - ETA: 17s - loss: 0.5858 - acc: 0.6685
51/94 [===============>.............] - ETA: 16s - loss: 0.5849 - acc: 0.6658
52/94 [===============>.............] - ETA: 16s - loss: 0.5888 - acc: 0.6626
53/94 [================>............] - ETA: 16s - loss: 0.5905 - acc: 0.6607
54/94 [================>............] - ETA: 15s - loss: 0.5885 - acc: 0.6601
55/94 [================>............] - ETA: 15s - loss: 0.5912 - acc: 0.6583
56/94 [=================>...........] - ETA: 15s - loss: 0.5898 - acc: 0.6566
57/94 [=================>...........] - ETA: 14s - loss: 0.5957 - acc: 0.6533
58/94 [=================>...........] - ETA: 14s - loss: 0.6022 - acc: 0.6496
59/94 [==================>..........] - ETA: 14s - loss: 0.6101 - acc: 0.6492
60/94 [==================>..........] - ETA: 13s - loss: 0.6105 - acc: 0.6498
61/94 [==================>..........] - ETA: 13s - loss: 0.6080 - acc: 0.6514
62/94 [===================>.........] - ETA: 13s - loss: 0.6095 - acc: 0.6515
63/94 [===================>.........] - ETA: 12s - loss: 0.6077 - acc: 0.6521
64/94 [===================>.........] - ETA: 12s - loss: 0.6072 - acc: 0.6517
65/94 [====================>........] - ETA: 12s - loss: 0.6046 - acc: 0.6541
66/94 [====================>........] - ETA: 11s - loss: 0.6023 - acc: 0.6546
67/94 [====================>........] - ETA: 11s - loss: 0.6030 - acc: 0.6542
68/94 [=====================>.......] - ETA: 11s - loss: 0.6031 - acc: 0.6533
69/94 [=====================>.......] - ETA: 10s - loss: 0.6036 - acc: 0.6534
70/94 [=====================>.......] - ETA: 10s - loss: 0.6026 - acc: 0.6552
71/94 [======================>......] - ETA: 9s - loss: 0.6058 - acc: 0.6526
72/94 [======================>......] - ETA: 9s - loss: 0.6065 - acc: 0.6522
73/94 [======================>......] - ETA: 9s - loss: 0.6087 - acc: 0.6514
74/94 [=======================>.....] - ETA: 8s - loss: 0.6087 - acc: 0.6506
75/94 [=======================>.....] - ETA: 8s - loss: 0.6098 - acc: 0.6511
76/94 [=======================>.....] - ETA: 7s - loss: 0.6091 - acc: 0.6520
77/94 [========================>....] - ETA: 7s - loss: 0.6065 - acc: 0.6528
78/94 [========================>....] - ETA: 7s - loss: 0.6092 - acc: 0.6517
79/94 [========================>....] - ETA: 6s - loss: 0.6088 - acc: 0.6514
80/94 [=========================>...] - ETA: 6s - loss: 0.6092 - acc: 0.6491
81/94 [=========================>...] - ETA: 5s - loss: 0.6074 - acc: 0.6495
82/94 [=========================>...] - ETA: 5s - loss: 0.6066 - acc: 0.6504
83/94 [==========================>..] - ETA: 5s - loss: 0.6065 - acc: 0.6490
84/94 [==========================>..] - ETA: 4s - loss: 0.6091 - acc: 0.6487
85/94 [==========================>..] - ETA: 4s - loss: 0.6091 - acc: 0.6477
86/94 [===========================>.] - ETA: 3s - loss: 0.6083 - acc: 0.6478
87/94 [===========================>.] - ETA: 3s - loss: 0.6067 - acc: 0.6486
88/94 [===========================>.] - ETA: 2s - loss: 0.6062 - acc: 0.6501
89/94 [===========================>..] - ETA: 2s - loss: 0.6072 - acc: 0.6498
90/94 [============================>..] - ETA: 2s - loss: 0.6073 - acc: 0.6502
91/94 [============================>..] - ETA: 1s - loss: 0.6073 - acc: 0.6517
92/94 [============================>.] - ETA: 1s - loss: 0.6116 - acc: 0.6524
93/94 [============================>.] - ETA: 0s - loss: 0.6124 - acc: 0.6524
94/94 [============================>.] - ETA: 0s - loss: 0.6125 - acc: 0.6525
95/94 [=============================] - 188s 2s/step - loss: 0.6126 - acc: 0.6515 - val_loss: 0.6138 - val_acc: 0.6541
Epoch 16/20
 1/94 [..............................] - ETA: 16s - loss: 0.4797 - acc: 0.8438
 2/94 [..............................] - ETA: 15s - loss: 0.5854 - acc: 0.7031
 3/94 [..............................] - ETA: 14s - loss: 0.5684 - acc: 0.7083
 4/94 [>.............................] - ETA: 14s - loss: 0.5637 - acc: 0.6953
 5/94 [>.............................] - ETA: 13s - loss: 0.6158 - acc: 0.6687
 6/94 [>.............................] - ETA: 13s - loss: 0.6152 - acc: 0.6615
 7/94 [=>............................] - ETA: 12s - loss: 0.6262 - acc: 0.6562
 8/94 [=>............................] - ETA: 12s - loss: 0.6247 - acc: 0.6523
 9/94 [=>............................] - ETA: 12s - loss: 0.6230 - acc: 0.6528
10/94 [==>...........................] - ETA: 12s - loss: 0.6120 - acc: 0.6531
11/94 [==>...........................] - ETA: 11s - loss: 0.6145 - acc: 0.6477
12/94 [==>...........................] - ETA: 11s - loss: 0.6042 - acc: 0.6589
13/94 [===>..........................] - ETA: 11s - loss: 0.6206 - acc: 0.6538
14/94 [===>..........................] - ETA: 11s - loss: 0.6296 - acc: 0.6473
15/94 [===>..........................] - ETA: 11s - loss: 0.6269 - acc: 0.6396
16/94 [====>.........................] - ETA: 13s - loss: 0.6258 - acc: 0.6367
17/94 [====>.........................] - ETA: 14s - loss: 0.6279 - acc: 0.6379
18/94 [====>.........................] - ETA: 15s - loss: 0.6179 - acc: 0.6441
19/94 [=====>........................] - ETA: 16s - loss: 0.6137 - acc: 0.6447
20/94 [=====>........................] - ETA: 17s - loss: 0.6120 - acc: 0.6500
21/94 [=====>........................] - ETA: 18s - loss: 0.6133 - acc: 0.6443
22/94 [=====>........................] - ETA: 18s - loss: 0.6195 - acc: 0.6435
23/94 [======>.......................] - ETA: 19s - loss: 0.6216 - acc: 0.6508
24/94 [======>.......................] - ETA: 19s - loss: 0.6265 - acc: 0.6484
25/94 [======>.......................] - ETA: 20s - loss: 0.6261 - acc: 0.6425
26/94 [=======>......................] - ETA: 20s - loss: 0.6289 - acc: 0.6406
27/94 [=======>......................] - ETA: 20s - loss: 0.6274 - acc: 0.6435
28/94 [=======>......................] - ETA: 20s - loss: 0.6243 - acc: 0.6484
29/94 [========>.....................] - ETA: 20s - loss: 0.6212 - acc: 0.6519
30/94 [========>.....................] - ETA: 20s - loss: 0.6248 - acc: 0.6490
31/94 [========>.....................] - ETA: 20s - loss: 0.6224 - acc: 0.6512
32/94 [=========>....................] - ETA: 20s - loss: 0.6195 - acc: 0.6514
33/94 [=========>....................] - ETA: 20s - loss: 0.6195 - acc: 0.6515
34/94 [=========>....................] - ETA: 20s - loss: 0.6185 - acc: 0.6498
35/94 [==========>...................] - ETA: 20s - loss: 0.6160 - acc: 0.6518
36/94 [==========>...................] - ETA: 20s - loss: 0.6117 - acc: 0.6554
37/94 [==========>...................] - ETA: 20s - loss: 0.6122 - acc: 0.6537
38/94 [===========>..................] - ETA: 20s - loss: 0.6159 - acc: 0.6521
39/94 [===========>..................] - ETA: 20s - loss: 0.6155 - acc: 0.6506
40/94 [===========>..................] - ETA: 19s - loss: 0.6135 - acc: 0.6523
41/94 [============>.................] - ETA: 19s - loss: 0.6102 - acc: 0.6540
42/94 [============>.................] - ETA: 19s - loss: 0.6067 - acc: 0.6548
43/94 [============>.................] - ETA: 19s - loss: 0.6036 - acc: 0.6570
44/94 [=============>................] - ETA: 19s - loss: 0.6020 - acc: 0.6577
45/94 [=============>................] - ETA: 18s - loss: 0.5986 - acc: 0.6590
46/94 [=============>................] - ETA: 18s - loss: 0.6025 - acc: 0.6576
47/94 [==============>...............] - ETA: 18s - loss: 0.6031 - acc: 0.6562
48/94 [==============>...............] - ETA: 18s - loss: 0.5996 - acc: 0.6602
49/94 [==============>...............] - ETA: 17s - loss: 0.5979 - acc: 0.6607
50/94 [===============>..............] - ETA: 17s - loss: 0.5951 - acc: 0.6613
51/94 [===============>..............] - ETA: 17s - loss: 0.5935 - acc: 0.6630
52/94 [===============>..............] - ETA: 16s - loss: 0.5930 - acc: 0.6653
53/94 [================>.............] - ETA: 16s - loss: 0.5950 - acc: 0.6651
54/94 [================>.............] - ETA: 16s - loss: 0.5939 - acc: 0.6667
```

55/94 [================>............] - ETA: 15s - loss: 0.5955 - acc: 0.6648
56/94 [================>............] - ETA: 15s - loss: 0.5968 - acc: 0.6635
57/94 [================>............] - ETA: 15s - loss: 0.5962 - acc: 0.6650
58/94 [================>............] - ETA: 14s - loss: 0.5956 - acc: 0.6659
59/94 [=================>...........] - ETA: 14s - loss: 0.5938 - acc: 0.6668
60/94 [=================>...........] - ETA: 14s - loss: 0.5914 - acc: 0.6687
61/94 [=================>...........] - ETA: 13s - loss: 0.5885 - acc: 0.6701
62/94 [=================>...........] - ETA: 13s - loss: 0.5888 - acc: 0.6694
63/94 [==================>..........] - ETA: 13s - loss: 0.5907 - acc: 0.6672
64/94 [==================>..........] - ETA: 12s - loss: 0.5937 - acc: 0.6665
65/94 [==================>..........] - ETA: 12s - loss: 0.5929 - acc: 0.6668
66/94 [==================>..........] - ETA: 11s - loss: 0.5932 - acc: 0.6643
67/94 [===================>.........] - ETA: 11s - loss: 0.5922 - acc: 0.6628
68/94 [===================>.........] - ETA: 11s - loss: 0.5937 - acc: 0.6622
69/94 [====================>........] - ETA: 10s - loss: 0.5925 - acc: 0.6626
70/94 [====================>........] - ETA: 10s - loss: 0.5902 - acc: 0.6634
71/94 [=====================>.......] - ETA: 9s - loss: 0.5891 - acc: 0.6633
72/94 [=====================>.......] - ETA: 9s - loss: 0.5881 - acc: 0.6654
73/94 [=====================>.......] - ETA: 9s - loss: 0.5889 - acc: 0.6644
74/94 [======================>......] - ETA: 8s - loss: 0.5898 - acc: 0.6647
75/94 [======================>......] - ETA: 8s - loss: 0.5871 - acc: 0.6663
76/94 [=======================>.....] - ETA: 7s - loss: 0.5859 - acc: 0.6674
77/94 [=======================>.....] - ETA: 7s - loss: 0.5871 - acc: 0.6664
78/94 [=======================>.....] - ETA: 7s - loss: 0.5861 - acc: 0.6675
79/94 [========================>....] - ETA: 6s - loss: 0.5849 - acc: 0.6685
80/94 [========================>....] - ETA: 6s - loss: 0.5855 - acc: 0.6687
81/94 [========================>....] - ETA: 5s - loss: 0.5845 - acc: 0.6701
82/94 [=========================>...] - ETA: 5s - loss: 0.5826 - acc: 0.6726
83/94 [=========================>...] - ETA: 5s - loss: 0.5830 - acc: 0.6736
84/94 [=========================>...] - ETA: 4s - loss: 0.5835 - acc: 0.6741
85/94 [==========================>..] - ETA: 4s - loss: 0.5818 - acc: 0.6757
86/94 [==========================>..] - ETA: 3s - loss: 0.5811 - acc: 0.6758
87/94 [==========================>..] - ETA: 3s - loss: 0.5787 - acc: 0.6770
88/94 [===========================>.] - ETA: 2s - loss: 0.5788 - acc: 0.6775
89/94 [===========================>.] - ETA: 2s - loss: 0.5786 - acc: 0.6773
90/94 [===========================>.] - ETA: 2s - loss: 0.5775 - acc: 0.6781
91/94 [===========================>.] - ETA: 1s - loss: 0.5793 - acc: 0.6758
92/94 [============================>.] - ETA: 1s - loss: 0.5816 - acc: 0.6756
93/94 [============================>.] - ETA: 0s - loss: 0.5814 - acc: 0.6757
94/94 [============================>.] - ETA: 0s - loss: 0.5800 - acc: 0.6755
95/94 [==============================] - 190s 2s/step - loss: 0.5811 - acc: 0.6746 - val_loss: 0.8016 - val_acc: 0.5994
Epoch 17/20
1/94 [..............................] - ETA: 15s - loss: 0.5968 - acc: 0.7188
2/94 [..............................] - ETA: 15s - loss: 0.7291 - acc: 0.7031
3/94 [..............................] - ETA: 14s - loss: 0.7061 - acc: 0.6875
4/94 [>.............................] - ETA: 13s - loss: 0.6867 - acc: 0.6484
5/94 [>.............................] - ETA: 13s - loss: 0.6399 - acc: 0.6625
6/94 [>.............................] - ETA: 12s - loss: 0.6494 - acc: 0.6510
7/94 [=>............................] - ETA: 12s - loss: 0.6482 - acc: 0.6429
8/94 [=>............................] - ETA: 12s - loss: 0.6403 - acc: 0.6328
9/94 [=>............................] - ETA: 12s - loss: 0.6389 - acc: 0.6250
10/94 [==>...........................] - ETA: 11s - loss: 0.6539 - acc: 0.6375
11/94 [==>...........................] - ETA: 11s - loss: 0.6458 - acc: 0.6420
12/94 [==>...........................] - ETA: 11s - loss: 0.6343 - acc: 0.6484
13/94 [===>..........................] - ETA: 11s - loss: 0.6330 - acc: 0.6514
14/94 [===>..........................] - ETA: 10s - loss: 0.6373 - acc: 0.6473
15/94 [===>..........................] - ETA: 12s - loss: 0.6272 - acc: 0.6562
16/94 [====>.........................] - ETA: 13s - loss: 0.6220 - acc: 0.6641
17/94 [====>.........................] - ETA: 14s - loss: 0.6215 - acc: 0.6673
18/94 [====>.........................] - ETA: 15s - loss: 0.6135 - acc: 0.6684
19/94 [=====>........................] - ETA: 16s - loss: 0.6127 - acc: 0.6711
20/94 [=====>........................] - ETA: 17s - loss: 0.6149 - acc: 0.6672
21/94 [=====>........................] - ETA: 18s - loss: 0.6068 - acc: 0.6667
22/94 [=====>........................] - ETA: 18s - loss: 0.5977 - acc: 0.6747
23/94 [======>.......................] - ETA: 19s - loss: 0.5963 - acc: 0.6753
24/94 [======>.......................] - ETA: 19s - loss: 0.5967 - acc: 0.6745
25/94 [======>.......................] - ETA: 19s - loss: 0.6006 - acc: 0.6787
26/94 [=======>......................] - ETA: 20s - loss: 0.6004 - acc: 0.6779
27/94 [=======>......................] - ETA: 20s - loss: 0.6056 - acc: 0.6748
28/94 [=======>......................] - ETA: 20s - loss: 0.6052 - acc: 0.6730
29/94 [========>.....................] - ETA: 20s - loss: 0.6063 - acc: 0.6724
30/94 [========>.....................] - ETA: 20s - loss: 0.6079 - acc: 0.6679
31/94 [========>.....................] - ETA: 20s - loss: 0.5998 - acc: 0.6756
32/94 [=========>....................] - ETA: 20s - loss: 0.5944 - acc: 0.6799
33/94 [=========>....................] - ETA: 20s - loss: 0.5936 - acc: 0.6782
34/94 [=========>....................] - ETA: 20s - loss: 0.5914 - acc: 0.6785
35/94 [==========>...................] - ETA: 20s - loss: 0.5963 - acc: 0.6770
36/94 [==========>...................] - ETA: 20s - loss: 0.5976 - acc: 0.6782
37/94 [==========>...................] - ETA: 20s - loss: 0.5972 - acc: 0.6767
38/94 [===========>..................] - ETA: 19s - loss: 0.5961 - acc: 0.6762
39/94 [===========>..................] - ETA: 19s - loss: 0.5992 - acc: 0.6741
40/94 [===========>..................] - ETA: 19s - loss: 0.5946 - acc: 0.6767
41/94 [============>.................] - ETA: 19s - loss: 0.5943 - acc: 0.6770
42/94 [============>.................] - ETA: 19s - loss: 0.5937 - acc: 0.6750
43/94 [============>.................] - ETA: 18s - loss: 0.5976 - acc: 0.6717
44/94 [=============>................] - ETA: 18s - loss: 0.6042 - acc: 0.6706
45/94 [=============>................] - ETA: 18s - loss: 0.6048 - acc: 0.6675
46/94 [=============>................] - ETA: 18s - loss: 0.6021 - acc: 0.6693
47/94 [==============>...............] - ETA: 17s - loss: 0.5978 - acc: 0.6704
48/94 [==============>...............] - ETA: 17s - loss: 0.5965 - acc: 0.6720
49/94 [==============>...............] - ETA: 17s - loss: 0.5956 - acc: 0.6736
50/94 [==============>...............] - ETA: 17s - loss: 0.5939 - acc: 0.6739
51/94 [===============>..............] - ETA: 16s - loss: 0.5941 - acc: 0.6735
52/94 [===============>..............] - ETA: 16s - loss: 0.5941 - acc: 0.6708
53/94 [===============>..............] - ETA: 16s - loss: 0.5917 - acc: 0.6711
54/94 [================>.............] - ETA: 15s - loss: 0.5942 - acc: 0.6691
55/94 [================>.............] - ETA: 15s - loss: 0.5958 - acc: 0.6689
56/94 [================>.............] - ETA: 15s - loss: 0.5969 - acc: 0.6698
57/94 [=================>............] - ETA: 14s - loss: 0.5965 - acc: 0.6695
58/94 [=================>............] - ETA: 14s - loss: 0.5936 - acc: 0.6725
59/94 [=================>............] - ETA: 14s - loss: 0.5925 - acc: 0.6739
60/94 [==================>...........] - ETA: 13s - loss: 0.5901 - acc: 0.6746
61/94 [==================>...........] - ETA: 13s - loss: 0.5898 - acc: 0.6748
62/94 [==================>...........] - ETA: 13s - loss: 0.5900 - acc: 0.6745
63/94 [==================>...........] - ETA: 12s - loss: 0.5902 - acc: 0.6747
64/94 [===================>..........] - ETA: 12s - loss: 0.5900 - acc: 0.6754
65/94 [===================>..........] - ETA: 12s - loss: 0.5875 - acc: 0.6770
66/94 [===================>..........] - ETA: 11s - loss: 0.5894 - acc: 0.6777
67/94 [====================>.........] - ETA: 11s - loss: 0.5907 - acc: 0.6755
68/94 [====================>.........] - ETA: 10s - loss: 0.5895 - acc: 0.6757
69/94 [====================>.........] - ETA: 10s - loss: 0.5929 - acc: 0.6731
70/94 [=====================>........] - ETA: 10s - loss: 0.5924 - acc: 0.6720
71/94 [=====================>........] - ETA: 9s - loss: 0.5930 - acc: 0.6718
72/94 [=====================>........] - ETA: 9s - loss: 0.5950 - acc: 0.6724
73/94 [======================>.......] - ETA: 9s - loss: 0.5950 - acc: 0.6722
74/94 [======================>.......] - ETA: 8s - loss: 0.5966 - acc: 0.6703
75/94 [======================>.......] - ETA: 8s - loss: 0.5983 - acc: 0.6718

```
76/94 [========================>......] - ETA: 7s - loss: 0.5999 - acc: 0.6703
77/94 [========================>......] - ETA: 7s - loss: 0.6007 - acc: 0.6701
78/94 [========================>......] - ETA: 7s - loss: 0.6010 - acc: 0.6692
79/94 [=========================>.....] - ETA: 6s - loss: 0.5995 - acc: 0.6710
80/94 [=========================>.....] - ETA: 6s - loss: 0.5984 - acc: 0.6712
81/94 [=========================>.....] - ETA: 5s - loss: 0.5967 - acc: 0.6722
82/94 [=========================>.....] - ETA: 5s - loss: 0.5964 - acc: 0.6720
83/94 [==========================>....] - ETA: 4s - loss: 0.5953 - acc: 0.6722
84/94 [==========================>....] - ETA: 4s - loss: 0.5953 - acc: 0.6723
85/94 [==========================>....] - ETA: 4s - loss: 0.5949 - acc: 0.6721
86/94 [===========================>...] - ETA: 3s - loss: 0.5948 - acc: 0.6720
87/94 [===========================>...] - ETA: 3s - loss: 0.5945 - acc: 0.6714
88/94 [===========================>...] - ETA: 2s - loss: 0.5951 - acc: 0.6720
89/94 [============================>..] - ETA: 2s - loss: 0.5944 - acc: 0.6725
90/94 [============================>..] - ETA: 2s - loss: 0.5934 - acc: 0.6723
91/94 [============================>..] - ETA: 1s - loss: 0.5910 - acc: 0.6752
92/94 [=============================>.] - ETA: 1s - loss: 0.5895 - acc: 0.6760
93/94 [=============================>.] - ETA: 0s - loss: 0.5880 - acc: 0.6772
94/94 [=============================>.] - ETA: 0s - loss: 0.5883 - acc: 0.6766
95/94 [==============================] - 186s 2s/step - loss: 0.5870 - acc: 0.6767 - val_loss: 0.5910 - val_acc: 0.6585
Epoch 18/20
 1/94 [..............................] - ETA: 16s - loss: 0.6439 - acc: 0.5625
 2/94 [..............................] - ETA: 15s - loss: 0.5770 - acc: 0.7031
 3/94 [..............................] - ETA: 14s - loss: 0.5729 - acc: 0.6875
 4/94 [>.............................] - ETA: 14s - loss: 0.5875 - acc: 0.6797
 5/94 [>.............................] - ETA: 13s - loss: 0.5640 - acc: 0.6750
 6/94 [>.............................] - ETA: 12s - loss: 0.5771 - acc: 0.6587
 7/94 [=>............................] - ETA: 12s - loss: 0.5764 - acc: 0.6628
 8/94 [=>............................] - ETA: 12s - loss: 0.5583 - acc: 0.6776
 9/94 [=>............................] - ETA: 11s - loss: 0.5605 - acc: 0.6856
10/94 [==>...........................] - ETA: 11s - loss: 0.5774 - acc: 0.6671
11/94 [==>...........................] - ETA: 11s - loss: 0.5912 - acc: 0.6576
12/94 [==>...........................] - ETA: 11s - loss: 0.5803 - acc: 0.6679
13/94 [===>..........................] - ETA: 11s - loss: 0.5794 - acc: 0.6766
14/94 [===>..........................] - ETA: 11s - loss: 0.5848 - acc: 0.6863
15/94 [===>..........................] - ETA: 11s - loss: 0.5811 - acc: 0.6864
16/94 [====>.........................] - ETA: 13s - loss: 0.5789 - acc: 0.6864
17/94 [====>.........................] - ETA: 14s - loss: 0.5874 - acc: 0.6902
18/94 [====>.........................] - ETA: 15s - loss: 0.5845 - acc: 0.6900
19/94 [=====>........................] - ETA: 16s - loss: 0.5850 - acc: 0.6899
20/94 [=====>........................] - ETA: 17s - loss: 0.5811 - acc: 0.6898
21/94 [=====>........................] - ETA: 18s - loss: 0.5829 - acc: 0.6837
22/94 [=====>........................] - ETA: 18s - loss: 0.5880 - acc: 0.6754
23/94 [======>.......................] - ETA: 19s - loss: 0.5832 - acc: 0.6786
24/94 [======>.......................] - ETA: 19s - loss: 0.5789 - acc: 0.6829
25/94 [======>.......................] - ETA: 19s - loss: 0.5760 - acc: 0.6868
26/94 [=======>......................] - ETA: 20s - loss: 0.5714 - acc: 0.6857
27/94 [=======>......................] - ETA: 20s - loss: 0.5767 - acc: 0.6788
28/94 [=======>......................] - ETA: 20s - loss: 0.5800 - acc: 0.6824
29/94 [========>.....................] - ETA: 20s - loss: 0.5769 - acc: 0.6837
30/94 [========>.....................] - ETA: 20s - loss: 0.5761 - acc: 0.6828
31/94 [========>.....................] - ETA: 20s - loss: 0.5868 - acc: 0.6829
32/94 [=========>....................] - ETA: 20s - loss: 0.5862 - acc: 0.6821
33/94 [=========>....................] - ETA: 20s - loss: 0.5817 - acc: 0.6823
34/94 [=========>....................] - ETA: 20s - loss: 0.5823 - acc: 0.6824
35/94 [==========>...................] - ETA: 20s - loss: 0.5809 - acc: 0.6826
36/94 [==========>...................] - ETA: 20s - loss: 0.5833 - acc: 0.6818
37/94 [==========>...................] - ETA: 20s - loss: 0.5792 - acc: 0.6870
38/94 [===========>..................] - ETA: 20s - loss: 0.5769 - acc: 0.6871
39/94 [===========>..................] - ETA: 20s - loss: 0.5744 - acc: 0.6863
40/94 [===========>..................] - ETA: 19s - loss: 0.5733 - acc: 0.6879
41/94 [============>.................] - ETA: 19s - loss: 0.5699 - acc: 0.6924
42/94 [=============>................] - ETA: 19s - loss: 0.5677 - acc: 0.6960
43/94 [=============>................] - ETA: 19s - loss: 0.5691 - acc: 0.6951
44/94 [=============>................] - ETA: 19s - loss: 0.5662 - acc: 0.6956
45/94 [=============>................] - ETA: 18s - loss: 0.5653 - acc: 0.6962
46/94 [=============>................] - ETA: 18s - loss: 0.5698 - acc: 0.6946
47/94 [==============>...............] - ETA: 18s - loss: 0.5710 - acc: 0.6945
48/94 [==============>...............] - ETA: 17s - loss: 0.5737 - acc: 0.6937
49/94 [===============>..............] - ETA: 17s - loss: 0.5771 - acc: 0.6897
50/94 [===============>..............] - ETA: 17s - loss: 0.5744 - acc: 0.6915
51/94 [===============>..............] - ETA: 17s - loss: 0.5779 - acc: 0.6902
52/94 [===============>..............] - ETA: 16s - loss: 0.5809 - acc: 0.6878
53/94 [================>.............] - ETA: 16s - loss: 0.5834 - acc: 0.6866
54/94 [================>.............] - ETA: 16s - loss: 0.5841 - acc: 0.6883
55/94 [=================>............] - ETA: 15s - loss: 0.5851 - acc: 0.6844
56/94 [================>.............] - ETA: 15s - loss: 0.5840 - acc: 0.6861
57/94 [==================>...........] - ETA: 15s - loss: 0.5853 - acc: 0.6861
58/94 [=================>............] - ETA: 14s - loss: 0.5838 - acc: 0.6856
59/94 [==================>...........] - ETA: 14s - loss: 0.5843 - acc: 0.6840
60/94 [==================>...........] - ETA: 14s - loss: 0.5847 - acc: 0.6846
61/94 [==================>...........] - ETA: 13s - loss: 0.5835 - acc: 0.6847
62/94 [==================>...........] - ETA: 13s - loss: 0.5828 - acc: 0.6847
63/94 [===================>..........] - ETA: 13s - loss: 0.5860 - acc: 0.6818
64/94 [===================>..........] - ETA: 12s - loss: 0.5831 - acc: 0.6824
65/94 [====================>.........] - ETA: 12s - loss: 0.5842 - acc: 0.6815
66/94 [====================>.........] - ETA: 11s - loss: 0.5818 - acc: 0.6835
67/94 [=====================>........] - ETA: 11s - loss: 0.5810 - acc: 0.6831
68/94 [====================>.........] - ETA: 11s - loss: 0.5791 - acc: 0.6840
69/94 [=====================>........] - ETA: 10s - loss: 0.5797 - acc: 0.6832
70/94 [=====================>........] - ETA: 10s - loss: 0.5775 - acc: 0.6855
71/94 [======================>.......] - ETA: 9s - loss: 0.5788 - acc: 0.6837
72/94 [======================>.......] - ETA: 9s - loss: 0.5794 - acc: 0.6834
73/94 [=======================>......] - ETA: 9s - loss: 0.5799 - acc: 0.6821
74/94 [=======================>......] - ETA: 8s - loss: 0.5833 - acc: 0.6797
75/94 [=======================>......] - ETA: 8s - loss: 0.5818 - acc: 0.6819
76/94 [=======================>......] - ETA: 7s - loss: 0.5869 - acc: 0.6807
77/94 [========================>.....] - ETA: 7s - loss: 0.5878 - acc: 0.6816
78/94 [========================>.....] - ETA: 7s - loss: 0.5867 - acc: 0.6813
79/94 [========================>.....] - ETA: 6s - loss: 0.5854 - acc: 0.6817
80/94 [=========================>....] - ETA: 6s - loss: 0.5848 - acc: 0.6810
81/94 [=========================>....] - ETA: 5s - loss: 0.5835 - acc: 0.6815
82/94 [=========================>....] - ETA: 5s - loss: 0.5823 - acc: 0.6812
83/94 [==========================>...] - ETA: 5s - loss: 0.5804 - acc: 0.6820
84/94 [==========================>...] - ETA: 4s - loss: 0.5822 - acc: 0.6821
85/94 [==========================>...] - ETA: 4s - loss: 0.5849 - acc: 0.6796
86/94 [===========================>..] - ETA: 3s - loss: 0.5854 - acc: 0.6797
87/94 [===========================>..] - ETA: 3s - loss: 0.5857 - acc: 0.6787
88/94 [===========================>..] - ETA: 2s - loss: 0.5849 - acc: 0.6806
89/94 [============================>.] - ETA: 2s - loss: 0.5868 - acc: 0.6792
90/94 [============================>.] - ETA: 2s - loss: 0.5860 - acc: 0.6790
91/94 [============================>.] - ETA: 1s - loss: 0.5853 - acc: 0.6794
92/94 [=============================>] - ETA: 1s - loss: 0.5882 - acc: 0.6781
93/94 [=============================>] - ETA: 0s - loss: 0.5874 - acc: 0.6789
94/94 [=============================>] - ETA: 0s - loss: 0.5865 - acc: 0.6797
95/94 [==============================] - 187s 2s/step - loss: 0.5855 - acc: 0.6801 - val_loss: 0.5970 - val_acc: 0.6603
```

Epoch 19/20
```
 1/94 [..............................] - ETA: 16s - loss: 0.5151 - acc: 0.5625
 2/94 [..............................] - ETA: 15s - loss: 0.5331 - acc: 0.6406
 3/94 [..............................] - ETA: 14s - loss: 0.5549 - acc: 0.6562
 4/94 [>.............................] - ETA: 14s - loss: 0.5694 - acc: 0.6562
 5/94 [>.............................] - ETA: 13s - loss: 0.6004 - acc: 0.6562
 6/94 [>.............................] - ETA: 13s - loss: 0.6056 - acc: 0.6510
 7/94 [=>............................] - ETA: 12s - loss: 0.6060 - acc: 0.6518
 8/94 [=>............................] - ETA: 12s - loss: 0.5884 - acc: 0.6680
 9/94 [=>............................] - ETA: 12s - loss: 0.5743 - acc: 0.6806
10/94 [==>...........................] - ETA: 12s - loss: 0.5763 - acc: 0.6844
11/94 [==>...........................] - ETA: 11s - loss: 0.5702 - acc: 0.6903
12/94 [==>...........................] - ETA: 11s - loss: 0.5585 - acc: 0.6875
13/94 [===>..........................] - ETA: 11s - loss: 0.5477 - acc: 0.6899
14/94 [===>..........................] - ETA: 11s - loss: 0.5571 - acc: 0.6808
15/94 [===>..........................] - ETA: 12s - loss: 0.5533 - acc: 0.6896
16/94 [====>.........................] - ETA: 13s - loss: 0.5564 - acc: 0.6855
17/94 [====>.........................] - ETA: 14s - loss: 0.5578 - acc: 0.6837
18/94 [====>.........................] - ETA: 15s - loss: 0.5685 - acc: 0.6735
19/94 [=====>........................] - ETA: 16s - loss: 0.5722 - acc: 0.6759
20/94 [=====>........................] - ETA: 17s - loss: 0.5666 - acc: 0.6733
21/94 [=====>........................] - ETA: 17s - loss: 0.5686 - acc: 0.6695
22/94 [=====>........................] - ETA: 18s - loss: 0.5702 - acc: 0.6689
23/94 [======>.......................] - ETA: 19s - loss: 0.5688 - acc: 0.6724
24/94 [======>.......................] - ETA: 19s - loss: 0.5697 - acc: 0.6757
25/94 [======>.......................] - ETA: 19s - loss: 0.5676 - acc: 0.6774
26/94 [=======>......................] - ETA: 20s - loss: 0.5711 - acc: 0.6802
27/94 [=======>......................] - ETA: 20s - loss: 0.5696 - acc: 0.6816
28/94 [=======>......................] - ETA: 20s - loss: 0.5665 - acc: 0.6863
29/94 [========>.....................] - ETA: 20s - loss: 0.5652 - acc: 0.6885
30/94 [========>.....................] - ETA: 20s - loss: 0.5631 - acc: 0.6895
31/94 [========>.....................] - ETA: 20s - loss: 0.5657 - acc: 0.6884
32/94 [=========>....................] - ETA: 20s - loss: 0.5670 - acc: 0.6874
33/94 [=========>....................] - ETA: 20s - loss: 0.5605 - acc: 0.6903
34/94 [=========>....................] - ETA: 20s - loss: 0.5625 - acc: 0.6893
35/94 [==========>...................] - ETA: 20s - loss: 0.5605 - acc: 0.6901
36/94 [==========>...................] - ETA: 20s - loss: 0.5584 - acc: 0.6892
37/94 [==========>...................] - ETA: 20s - loss: 0.5576 - acc: 0.6891
38/94 [===========>..................] - ETA: 20s - loss: 0.5596 - acc: 0.6891
39/94 [===========>..................] - ETA: 19s - loss: 0.5589 - acc: 0.6898
40/94 [===========>..................] - ETA: 19s - loss: 0.5567 - acc: 0.6898
41/94 [============>.................] - ETA: 19s - loss: 0.5548 - acc: 0.6935
42/94 [============>.................] - ETA: 19s - loss: 0.5580 - acc: 0.6927
43/94 [============>.................] - ETA: 19s - loss: 0.5604 - acc: 0.6940
44/94 [=============>................] - ETA: 18s - loss: 0.5616 - acc: 0.6938
45/94 [=============>................] - ETA: 18s - loss: 0.5601 - acc: 0.6930
46/94 [=============>................] - ETA: 18s - loss: 0.5582 - acc: 0.6956
47/94 [==============>...............] - ETA: 18s - loss: 0.5613 - acc: 0.6948
48/94 [==============>...............] - ETA: 17s - loss: 0.5596 - acc: 0.6966
49/94 [==============>...............] - ETA: 17s - loss: 0.5589 - acc: 0.6951
50/94 [===============>..............] - ETA: 17s - loss: 0.5599 - acc: 0.6925
51/94 [===============>..............] - ETA: 16s - loss: 0.5611 - acc: 0.6917
52/94 [===============>..............] - ETA: 16s - loss: 0.5599 - acc: 0.6923
53/94 [================>.............] - ETA: 16s - loss: 0.5592 - acc: 0.6945
54/94 [================>.............] - ETA: 15s - loss: 0.5558 - acc: 0.6956
55/94 [================>.............] - ETA: 15s - loss: 0.5556 - acc: 0.6937
56/94 [================>.............] - ETA: 15s - loss: 0.5572 - acc: 0.6925
57/94 [=================>............] - ETA: 14s - loss: 0.5582 - acc: 0.6929
58/94 [=================>............] - ETA: 14s - loss: 0.5575 - acc: 0.6928
59/94 [=================>............] - ETA: 14s - loss: 0.5577 - acc: 0.6917
60/94 [==================>...........] - ETA: 13s - loss: 0.5573 - acc: 0.6906
61/94 [==================>...........] - ETA: 13s - loss: 0.5606 - acc: 0.6890
62/94 [==================>...........] - ETA: 13s - loss: 0.5584 - acc: 0.6900
63/94 [===================>..........] - ETA: 12s - loss: 0.5599 - acc: 0.6880
64/94 [===================>..........] - ETA: 12s - loss: 0.5587 - acc: 0.6880
65/94 [===================>..........] - ETA: 12s - loss: 0.5578 - acc: 0.6889
66/94 [====================>.........] - ETA: 11s - loss: 0.5582 - acc: 0.6875
67/94 [====================>.........] - ETA: 11s - loss: 0.5569 - acc: 0.6879
68/94 [====================>.........] - ETA: 11s - loss: 0.5574 - acc: 0.6875
69/94 [=====================>........] - ETA: 10s - loss: 0.5560 - acc: 0.6870
70/94 [=====================>........] - ETA: 10s - loss: 0.5575 - acc: 0.6861
71/94 [=====================>........] - ETA: 9s - loss: 0.5564 - acc: 0.6879
72/94 [======================>.......] - ETA: 9s - loss: 0.5551 - acc: 0.6901
73/94 [======================>.......] - ETA: 9s - loss: 0.5584 - acc: 0.6883
74/94 [======================>.......] - ETA: 8s - loss: 0.5589 - acc: 0.6887
75/94 [=======================>......] - ETA: 8s - loss: 0.5592 - acc: 0.6887
76/94 [=======================>......] - ETA: 7s - loss: 0.5593 - acc: 0.6908
77/94 [=======================>......] - ETA: 7s - loss: 0.5577 - acc: 0.6907
78/94 [========================>.....] - ETA: 7s - loss: 0.5564 - acc: 0.6911
79/94 [========================>.....] - ETA: 6s - loss: 0.5570 - acc: 0.6906
80/94 [========================>.....] - ETA: 6s - loss: 0.5562 - acc: 0.6906
81/94 [=========================>....] - ETA: 5s - loss: 0.5563 - acc: 0.6906
82/94 [=========================>....] - ETA: 5s - loss: 0.5606 - acc: 0.6890
83/94 [=========================>....] - ETA: 5s - loss: 0.5586 - acc: 0.6901
84/94 [==========================>...] - ETA: 4s - loss: 0.5588 - acc: 0.6886
85/94 [==========================>...] - ETA: 4s - loss: 0.5590 - acc: 0.6886
86/94 [==========================>...] - ETA: 3s - loss: 0.5578 - acc: 0.6882
87/94 [===========================>..] - ETA: 3s - loss: 0.5572 - acc: 0.6882
88/94 [===========================>..] - ETA: 2s - loss: 0.5579 - acc: 0.6878
89/94 [===========================>..] - ETA: 2s - loss: 0.5572 - acc: 0.6878
90/94 [============================>.] - ETA: 2s - loss: 0.5559 - acc: 0.6885
91/94 [============================>.] - ETA: 1s - loss: 0.5592 - acc: 0.6875
92/94 [============================>.] - ETA: 1s - loss: 0.5607 - acc: 0.6858
93/94 [============================>.] - ETA: 0s - loss: 0.5605 - acc: 0.6855
94/94 [============================>.] - ETA: 0s - loss: 0.5865 - acc: 0.6797
95/94 [==============================] - 187s 2s/step - loss: 0.5855 - acc: 0.6801 - val_loss: 0.5970 - val_acc: 0.6603
```
Epoch 19/20
```
 1/94 [..............................] - ETA: 16s - loss: 0.5151 - acc: 0.5625
 2/94 [..............................] - ETA: 15s - loss: 0.5331 - acc: 0.6406
 3/94 [..............................] - ETA: 14s - loss: 0.5549 - acc: 0.6562
 4/94 [>.............................] - ETA: 14s - loss: 0.5694 - acc: 0.6562
 5/94 [>.............................] - ETA: 13s - loss: 0.6004 - acc: 0.6562
 6/94 [>.............................] - ETA: 13s - loss: 0.6056 - acc: 0.6510
 7/94 [=>............................] - ETA: 12s - loss: 0.6060 - acc: 0.6518
 8/94 [=>............................] - ETA: 12s - loss: 0.5884 - acc: 0.6680
 9/94 [=>............................] - ETA: 12s - loss: 0.5743 - acc: 0.6806
10/94 [==>...........................] - ETA: 12s - loss: 0.5763 - acc: 0.6844
11/94 [==>...........................] - ETA: 11s - loss: 0.5702 - acc: 0.6903
12/94 [==>...........................] - ETA: 11s - loss: 0.5585 - acc: 0.6875
13/94 [===>..........................] - ETA: 11s - loss: 0.5477 - acc: 0.6899
14/94 [===>..........................] - ETA: 11s - loss: 0.5571 - acc: 0.6808
15/94 [===>..........................] - ETA: 12s - loss: 0.5533 - acc: 0.6896
16/94 [====>.........................] - ETA: 13s - loss: 0.5564 - acc: 0.6855
17/94 [====>.........................] - ETA: 14s - loss: 0.5578 - acc: 0.6837
18/94 [====>.........................] - ETA: 15s - loss: 0.5685 - acc: 0.6735
19/94 [=====>........................] - ETA: 16s - loss: 0.5722 - acc: 0.6759
20/94 [=====>........................] - ETA: 17s - loss: 0.5666 - acc: 0.6733
```

```
21/94 [=====>........................] - ETA: 17s - loss: 0.5686 - acc: 0.6695
22/94 [=====>........................] - ETA: 18s - loss: 0.5702 - acc: 0.6689
23/94 [======>.......................] - ETA: 19s - loss: 0.5688 - acc: 0.6724
24/94 [======>.......................] - ETA: 19s - loss: 0.5697 - acc: 0.6757
25/94 [======>.......................] - ETA: 19s - loss: 0.5676 - acc: 0.6774
26/94 [=======>......................] - ETA: 20s - loss: 0.5711 - acc: 0.6802
27/94 [=======>......................] - ETA: 20s - loss: 0.5696 - acc: 0.6816
28/94 [=======>......................] - ETA: 20s - loss: 0.5665 - acc: 0.6863
29/94 [========>.....................] - ETA: 20s - loss: 0.5652 - acc: 0.6885
30/94 [========>.....................] - ETA: 20s - loss: 0.5631 - acc: 0.6895
31/94 [========>.....................] - ETA: 20s - loss: 0.5657 - acc: 0.6884
32/94 [=========>....................] - ETA: 20s - loss: 0.5670 - acc: 0.6874
33/94 [=========>....................] - ETA: 20s - loss: 0.5605 - acc: 0.6903
34/94 [=========>....................] - ETA: 20s - loss: 0.5625 - acc: 0.6893
35/94 [==========>...................] - ETA: 20s - loss: 0.5605 - acc: 0.6901
36/94 [==========>...................] - ETA: 20s - loss: 0.5584 - acc: 0.6892
37/94 [==========>...................] - ETA: 20s - loss: 0.5576 - acc: 0.6891
38/94 [===========>..................] - ETA: 20s - loss: 0.5596 - acc: 0.6891
39/94 [===========>..................] - ETA: 19s - loss: 0.5589 - acc: 0.6898
40/94 [===========>..................] - ETA: 19s - loss: 0.5567 - acc: 0.6898
41/94 [============>.................] - ETA: 19s - loss: 0.5548 - acc: 0.6935
42/94 [============>.................] - ETA: 19s - loss: 0.5580 - acc: 0.6927
43/94 [============>.................] - ETA: 19s - loss: 0.5604 - acc: 0.6940
44/94 [=============>................] - ETA: 18s - loss: 0.5616 - acc: 0.6938
45/94 [=============>................] - ETA: 18s - loss: 0.5601 - acc: 0.6930
46/94 [=============>................] - ETA: 18s - loss: 0.5582 - acc: 0.6956
47/94 [==============>...............] - ETA: 18s - loss: 0.5613 - acc: 0.6948
48/94 [==============>...............] - ETA: 17s - loss: 0.5596 - acc: 0.6966
49/94 [==============>...............] - ETA: 17s - loss: 0.5589 - acc: 0.6951
50/94 [===============>..............] - ETA: 17s - loss: 0.5599 - acc: 0.6925
51/94 [===============>..............] - ETA: 16s - loss: 0.5611 - acc: 0.6917
52/94 [===============>..............] - ETA: 16s - loss: 0.5599 - acc: 0.6923
53/94 [================>.............] - ETA: 16s - loss: 0.5592 - acc: 0.6945
54/94 [================>.............] - ETA: 15s - loss: 0.5558 - acc: 0.6956
55/94 [================>.............] - ETA: 15s - loss: 0.5556 - acc: 0.6937
56/94 [================>.............] - ETA: 15s - loss: 0.5572 - acc: 0.6925
57/94 [=================>............] - ETA: 14s - loss: 0.5582 - acc: 0.6929
58/94 [=================>............] - ETA: 14s - loss: 0.5575 - acc: 0.6928
59/94 [=================>............] - ETA: 14s - loss: 0.5577 - acc: 0.6917
60/94 [==================>...........] - ETA: 13s - loss: 0.5573 - acc: 0.6906
61/94 [==================>...........] - ETA: 13s - loss: 0.5606 - acc: 0.6890
62/94 [==================>...........] - ETA: 13s - loss: 0.5584 - acc: 0.6900
63/94 [===================>..........] - ETA: 12s - loss: 0.5599 - acc: 0.6880
64/94 [===================>..........] - ETA: 12s - loss: 0.5587 - acc: 0.6880
65/94 [===================>..........] - ETA: 12s - loss: 0.5578 - acc: 0.6889
66/94 [====================>.........] - ETA: 11s - loss: 0.5582 - acc: 0.6875
67/94 [====================>.........] - ETA: 11s - loss: 0.5569 - acc: 0.6879
68/94 [====================>.........] - ETA: 11s - loss: 0.5574 - acc: 0.6875
69/94 [=====================>........] - ETA: 10s - loss: 0.5560 - acc: 0.6870
70/94 [=====================>........] - ETA: 10s - loss: 0.5575 - acc: 0.6861
71/94 [=====================>........] - ETA: 9s - loss: 0.5564 - acc: 0.6879
72/94 [======================>.......] - ETA: 9s - loss: 0.5551 - acc: 0.6901
73/94 [======================>.......] - ETA: 9s - loss: 0.5584 - acc: 0.6883
74/94 [======================>.......] - ETA: 8s - loss: 0.5589 - acc: 0.6887
75/94 [=======================>......] - ETA: 8s - loss: 0.5592 - acc: 0.6887
76/94 [=======================>......] - ETA: 7s - loss: 0.5593 - acc: 0.6908
77/94 [=======================>......] - ETA: 7s - loss: 0.5577 - acc: 0.6907
78/94 [========================>.....] - ETA: 7s - loss: 0.5564 - acc: 0.6911
79/94 [========================>.....] - ETA: 6s - loss: 0.5570 - acc: 0.6906
80/94 [========================>.....] - ETA: 6s - loss: 0.5562 - acc: 0.6906
81/94 [========================>.....] - ETA: 5s - loss: 0.5563 - acc: 0.6906
82/94 [=========================>....] - ETA: 5s - loss: 0.5606 - acc: 0.6890
83/94 [=========================>....] - ETA: 5s - loss: 0.5586 - acc: 0.6901
84/94 [=========================>....] - ETA: 4s - loss: 0.5588 - acc: 0.6886
85/94 [=========================>....] - ETA: 4s - loss: 0.5590 - acc: 0.6886
86/94 [==========================>...] - ETA: 3s - loss: 0.5578 - acc: 0.6882
87/94 [==========================>...] - ETA: 3s - loss: 0.5572 - acc: 0.6882
88/94 [==========================>...] - ETA: 2s - loss: 0.5579 - acc: 0.6878
89/94 [===========================>..] - ETA: 2s - loss: 0.5572 - acc: 0.6878
90/94 [===========================>..] - ETA: 2s - loss: 0.5559 - acc: 0.6885
91/94 [===========================>..] - ETA: 1s - loss: 0.5592 - acc: 0.6875
92/94 [============================>.] - ETA: 1s - loss: 0.5607 - acc: 0.6858
93/94 [============================>.] - ETA: 0s - loss: 0.5605 - acc: 0.6855
94/94 [============================>.] - ETA: 0s - loss: 0.5608 - acc: 0.6845
95/94 [==============================] - 187s 2s/step - loss: 0.5637 - acc: 0.6829 - val_loss: 0.6003 - val_acc: 0.6607
Epoch 20/20
1/94 [..............................] - ETA: 16s - loss: 0.7178 - acc: 0.5625
2/94 [..............................] - ETA: 15s - loss: 0.6425 - acc: 0.6250
3/94 [..............................] - ETA: 14s - loss: 0.5904 - acc: 0.6979
4/94 [>.............................] - ETA: 13s - loss: 0.5649 - acc: 0.6953
5/94 [>.............................] - ETA: 13s - loss: 0.5892 - acc: 0.6625
6/94 [>.............................] - ETA: 13s - loss: 0.5499 - acc: 0.6979
7/94 [=>............................] - ETA: 12s - loss: 0.5410 - acc: 0.6875
8/94 [=>............................] - ETA: 12s - loss: 0.5341 - acc: 0.6953
9/94 [=>............................] - ETA: 12s - loss: 0.5382 - acc: 0.6875
10/94 [==>...........................] - ETA: 11s - loss: 0.5272 - acc: 0.6969
11/94 [==>...........................] - ETA: 11s - loss: 0.5180 - acc: 0.7017
12/94 [==>...........................] - ETA: 11s - loss: 0.5188 - acc: 0.7005
13/94 [===>..........................] - ETA: 11s - loss: 0.5159 - acc: 0.7043
14/94 [===>..........................] - ETA: 11s - loss: 0.5153 - acc: 0.7054
15/94 [===>..........................] - ETA: 12s - loss: 0.5248 - acc: 0.7000
16/94 [====>.........................] - ETA: 13s - loss: 0.5330 - acc: 0.6992
17/94 [====>.........................] - ETA: 14s - loss: 0.5397 - acc: 0.6967
18/94 [====>.........................] - ETA: 15s - loss: 0.5417 - acc: 0.6979
19/94 [=====>........................] - ETA: 16s - loss: 0.5453 - acc: 0.6875
20/94 [=====>........................] - ETA: 17s - loss: 0.5471 - acc: 0.6859
21/94 [=====>........................] - ETA: 18s - loss: 0.5429 - acc: 0.6845
22/94 [=====>........................] - ETA: 18s - loss: 0.5350 - acc: 0.6889
23/94 [======>.......................] - ETA: 19s - loss: 0.5345 - acc: 0.6889
24/94 [======>.......................] - ETA: 19s - loss: 0.5396 - acc: 0.6888
25/94 [======>.......................] - ETA: 19s - loss: 0.5384 - acc: 0.6925
26/94 [=======>......................] - ETA: 20s - loss: 0.5372 - acc: 0.6935
27/94 [=======>......................] - ETA: 20s - loss: 0.5325 - acc: 0.6991
28/94 [=======>......................] - ETA: 20s - loss: 0.5269 - acc: 0.7042
29/94 [========>.....................] - ETA: 20s - loss: 0.5231 - acc: 0.7047
30/94 [========>.....................] - ETA: 20s - loss: 0.5314 - acc: 0.7063
31/94 [========>.....................] - ETA: 20s - loss: 0.5329 - acc: 0.7046
32/94 [=========>....................] - ETA: 20s - loss: 0.5332 - acc: 0.7012
33/94 [=========>....................] - ETA: 20s - loss: 0.5321 - acc: 0.7008
34/94 [=========>....................] - ETA: 20s - loss: 0.5283 - acc: 0.7013
35/94 [==========>...................] - ETA: 20s - loss: 0.5254 - acc: 0.7018
36/94 [==========>...................] - ETA: 20s - loss: 0.5219 - acc: 0.7040
37/94 [==========>...................] - ETA: 20s - loss: 0.5225 - acc: 0.7052
38/94 [===========>..................] - ETA: 19s - loss: 0.5245 - acc: 0.7031
39/94 [===========>..................] - ETA: 19s - loss: 0.5278 - acc: 0.7003
40/94 [===========>..................] - ETA: 19s - loss: 0.5321 - acc: 0.6977
41/94 [============>.................] - ETA: 19s - loss: 0.5315 - acc: 0.7005
```

```
42/94 [===========>.................] - ETA: 19s - loss: 0.5315 - acc: 0.7024
43/94 [===========>.................] - ETA: 18s - loss: 0.5317 - acc: 0.7028
44/94 [============>................] - ETA: 18s - loss: 0.5338 - acc: 0.7003
45/94 [=============>...............] - ETA: 18s - loss: 0.5349 - acc: 0.6993
46/94 [=============>...............] - ETA: 18s - loss: 0.5364 - acc: 0.6990
47/94 [=============>...............] - ETA: 18s - loss: 0.5397 - acc: 0.6968
48/94 [==============>..............] - ETA: 17s - loss: 0.5406 - acc: 0.6947
49/94 [==============>..............] - ETA: 17s - loss: 0.5384 - acc: 0.6977
50/94 [==============>..............] - ETA: 17s - loss: 0.5392 - acc: 0.6953
51/94 [===============>.............] - ETA: 16s - loss: 0.5401 - acc: 0.6970
52/94 [===============>.............] - ETA: 16s - loss: 0.5385 - acc: 0.6980
53/94 [===============>.............] - ETA: 16s - loss: 0.5365 - acc: 0.6990
54/94 [================>............] - ETA: 15s - loss: 0.5391 - acc: 0.6964
55/94 [================>............] - ETA: 15s - loss: 0.5408 - acc: 0.6946
56/94 [================>............] - ETA: 15s - loss: 0.5394 - acc: 0.6956
57/94 [=================>...........] - ETA: 14s - loss: 0.5377 - acc: 0.6965
58/94 [=================>...........] - ETA: 14s - loss: 0.5379 - acc: 0.6958
59/94 [=================>...........] - ETA: 14s - loss: 0.5377 - acc: 0.6952
60/94 [==================>..........] - ETA: 13s - loss: 0.5397 - acc: 0.6961
61/94 [==================>..........] - ETA: 13s - loss: 0.5385 - acc: 0.6970
62/94 [==================>..........] - ETA: 13s - loss: 0.5380 - acc: 0.6963
63/94 [===================>.........] - ETA: 12s - loss: 0.5365 - acc: 0.6962
64/94 [===================>.........] - ETA: 12s - loss: 0.5357 - acc: 0.6946
65/94 [===================>.........] - ETA: 12s - loss: 0.5366 - acc: 0.6945
66/94 [====================>........] - ETA: 11s - loss: 0.5352 - acc: 0.6962
67/94 [====================>........] - ETA: 11s - loss: 0.5400 - acc: 0.6956
68/94 [====================>........] - ETA: 10s - loss: 0.5431 - acc: 0.6941
69/94 [=====================>.......] - ETA: 10s - loss: 0.5428 - acc: 0.6940
70/94 [=====================>.......] - ETA: 10s - loss: 0.5444 - acc: 0.6931
71/94 [=====================>.......] - ETA: 9s - loss: 0.5438 - acc: 0.6925
72/94 [======================>......] - ETA: 9s - loss: 0.5427 - acc: 0.6920
73/94 [======================>......] - ETA: 9s - loss: 0.5422 - acc: 0.6933
74/94 [======================>......] - ETA: 8s - loss: 0.5425 - acc: 0.6928
75/94 [=======================>.....] - ETA: 8s - loss: 0.5417 - acc: 0.6923
76/94 [=======================>.....] - ETA: 7s - loss: 0.5402 - acc: 0.6934
77/94 [=======================>.....] - ETA: 7s - loss: 0.5426 - acc: 0.6909
78/94 [========================>....] - ETA: 7s - loss: 0.5436 - acc: 0.6913
79/94 [========================>....] - ETA: 6s - loss: 0.5416 - acc: 0.6916
80/94 [========================>....] - ETA: 6s - loss: 0.5421 - acc: 0.6912
81/94 [=========================>...] - ETA: 5s - loss: 0.5430 - acc: 0.6923
82/94 [=========================>...] - ETA: 5s - loss: 0.5435 - acc: 0.6934
```

```
83/94 [=========================>...] - ETA: 5s - loss: 0.5441 - acc: 0.6941
84/94 [=========================>...] - ETA: 4s - loss: 0.5443 - acc: 0.6933
85/94 [==========================>..] - ETA: 4s - loss: 0.5455 - acc: 0.6924
86/94 [==========================>..] - ETA: 3s - loss: 0.5440 - acc: 0.6942
87/94 [==========================>..] - ETA: 3s - loss: 0.5432 - acc: 0.6941
88/94 [===========================>.] - ETA: 2s - loss: 0.5435 - acc: 0.6930
89/94 [===========================>.] - ETA: 2s - loss: 0.5435 - acc: 0.6940
90/94 [===========================>.] - ETA: 2s - loss: 0.5440 - acc: 0.6943
91/94 [============================>.] - ETA: 1s - loss: 0.5441 - acc: 0.6945
92/94 [============================>.] - ETA: 1s - loss: 0.5432 - acc: 0.6941
93/94 [============================>.] - ETA: 0s - loss: 0.5423 - acc: 0.6944
94/94 [============================>.] - ETA: 0s - loss: 0.5432 - acc: 0.6946
95/94 [=============================] - 186s 2s/step - loss: 0.5430 - acc: 0.6952 - val_loss: 0.6259 - val_acc:
0.6426
Test loss:  6.40280550737
Test accuracy 0.587692307876
Module completed; cleaning up.
Clean up finished.
Task completed successfully.
I  Tearing down TensorFlow.
I  Finished tearing down TensorFlow.
03:33:16.526 Job completed successfully.
```

Cloud ML Job, cnncopy_train_20171109_02... ▾   All logs ▾   Any log level ▾   Jump to date ▾

2017-11-09 EST   View Options ▾

```
▸ ⓘ 03:27:12.398 master-replica-0 85/94 [==========================>..] - ETA: 4s - loss: 0.5455 - acc: 0.6924
▸ ⓘ 03:27:12.883 master-replica-0 86/94 [==========================>..] - ETA: 3s - loss: 0.5440 - acc: 0.6942
▸ ⓘ 03:27:13.368 master-replica-0 87/94 [==========================>..] - ETA: 3s - loss: 0.5432 - acc: 0.6941
▸ ⓘ 03:27:13.851 master-replica-0 88/94 [===========================>.] - ETA: 2s - loss: 0.5435 - acc: 0.6930
▸ ⓘ 03:27:14.339 master-replica-0 89/94 [===========================>.] - ETA: 2s - loss: 0.5435 - acc: 0.6940
▸ ⓘ 03:27:14.828 master-replica-0 90/94 [===========================>.] - ETA: 2s - loss: 0.5440 - acc: 0.6943
▸ ⓘ 03:27:15.307 master-replica-0 91/94 [============================>.] - ETA: 1s - loss: 0.5441 - acc: 0.6945
▸ ⓘ 03:27:15.796 master-replica-0 92/94 [============================>.] - ETA: 1s - loss: 0.5432 - acc: 0.6941
▸ ⓘ 03:27:16.285 master-replica-0 93/94 [============================>.] - ETA: 0s - loss: 0.5423 - acc: 0.6944
▸ ⓘ 03:29:42.170 master-replica-0 94/94 [============================>.] - ETA: 0s - loss: 0.5432 - acc: 0.6946
▸ ⓘ 03:29:42.171 master-replica-0 95/94 [=============================] - 186s 2s/step - loss: 0.5430 - acc: 0.6952 - val_loss: 0.6259 - val_acc: 0.6426
▸ ⓘ 03:29:47.980 master-replica-0 Test loss: 6.40280550737
▸ ⓘ 03:29:47.981 master-replica-0 Test accuracy 0.587692307876
▸ ⓘ 03:29:48.076 master-replica-0 Module completed; cleaning up.
▸ ⓘ 03:29:48.076 master-replica-0 Clean up finished.
▸ ⓘ 03:29:48.077 master-replica-0 Task completed successfully.
▸ ⓘ 03:30:04.818 Tearing down TensorFlow.
▸ ⓘ 03:32:02.147 Finished tearing down TensorFlow.
▸ ⓘ 03:33:16.526 Job completed successfully.
```

```
11/9
1/20     loss: 1.3712 - acc: 0.2991 - val_loss: 1.3440 - val_acc: 0.3217 master-replica-0
2/20     loss: 1.3037 - acc: 0.3508 - val_loss: 1.2360 - val_acc: 0.3800 master-replica-0
3/20     loss: 1.2214 - acc: 0.3915 - val_loss: 1.1272 - val_acc: 0.4431 master-replica-0
4/20     loss: 1.0646 - acc: 0.4565 - val_loss: 0.9222 - val_acc: 0.5043 master-replica-0
5/20     loss: 0.9621 - acc: 0.5140 - val_loss: 0.9246 - val_acc: 0.5083 master-replica-0
6/20     loss: 0.8789 - acc: 0.5333 - val_loss: 0.7766 - val_acc: 0.5766 master-replica-0
7/20     loss: 0.8278 - acc: 0.5612 - val_loss: 0.8265 - val_acc: 0.5536 master-replica-0
8/20     loss: 0.7757 - acc: 0.5858 - val_loss: 0.7457 - val_acc: 0.5831 master-replica-0
9/20     loss: 0.7514 - acc: 0.5916 - val_loss: 0.7268 - val_acc: 0.6072 master-replica-0
10/20    loss: 0.7049 - acc: 0.6246 - val_loss: 0.6672 - val_acc: 0.6261 master-replica-0
11/20    loss: 0.6871 - acc: 0.6238 - val_loss: 0.6472 - val_acc: 0.6340 master-replica-0
12/20    loss: 0.6725 - acc: 0.6426 - val_loss: 0.6551 - val_acc: 0.6422 master-replica-0
13/20    loss: 0.6370 - acc: 0.6405 - val_loss: 0.5923 - val_acc: 0.6561 master-replica-0
14/20    loss: 0.6250 - acc: 0.6527 - val_loss: 0.6110 - val_acc: 0.6447 master-replica-0
15/20    loss: 0.6126 - acc: 0.6515 - val_loss: 0.6138 - val_acc: 0.6541 master-replica-0
16/20    loss: 0.5811 - acc: 0.6746 - val_loss: 0.8016 - val_acc: 0.5994 master-replica-0
17/20    loss: 0.5870 - acc: 0.6767 - val_loss: 0.5910 - val_acc: 0.6585 master-replica-0
18/20    loss: 0.5855 - acc: 0.6801 - val_loss: 0.5970 - val_acc: 0.6603 master-replica-0
19/20    loss: 0.5637 - acc: 0.6829 - val_loss: 0.6003 - val_acc: 0.6607 master-replica-0
20/20    loss: 0.5430 - acc: 0.6952 - val_loss: 0.6259 - val_acc: 0.6426 master-replica-0
Test loss:  6.40280550737 master-replica-0
Test accuracy 0.587692307876 master-replica-0
```