

```
In [1]: %matplotlib inline
import warnings
warnings.filterwarnings("ignore")

import sqlite3
import pandas as pd
import numpy as np
import datetime as dt
import matplotlib.pyplot as plt
import seaborn as sns
from collections import Counter
from itertools import islice

from sklearn.model_selection import train_test_split
from keras.models import Sequential
from keras.preprocessing import sequence
from keras.initializers import he_normal
from keras.layers import BatchNormalization, Dense, Dropout, Flatten, LSTM
from keras.layers.embeddings import Embedding
from keras.regularizers import L1L2

Using TensorFlow backend.
```

```
In [2]: con = sqlite3.connect('C:/Users/Excel/Desktop/vins/database.sqlite')

# filtering only positive and negative reviews i.e.
# not taking into consideration those reviews with Score=3
# SELECT * FROM Reviews WHERE Score != 3 LIMIT 500000, will give top 50
# 0000 data points
# you can change the number to any other number based on your computing
# power

# filtered_data = pd.read_sql_query(""" SELECT * FROM Reviews WHERE Score
# != 3 LIMIT 500000""", con)
```

```
# for tsne assignment you can take 5k data points

filtered_data = pd.read_sql_query(""" SELECT * FROM Reviews WHERE Score
!= 3 LIMIT 50000""", con)

# Give reviews with Score>3 a positive rating(1), and reviews with a score<3 a negative rating(0).
def partition(x):
    if x < 3:
        return 0
    return 1

#changing reviews with score less than 3 to be positive and vice-versa
actualScore = filtered_data['Score']
positiveNegative = actualScore.map(partition)
filtered_data['Score'] = positiveNegative
print("Number of data points in our data", filtered_data.shape)
filtered_data.head(3)
```

Number of data points in our data (50000, 10)

Out[2]:

	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator
0	1	B001E4KFG0	A3SGXH7AUHU8GW	delmartian	1	1
1	2	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0	0

	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator
2	3	B000LQOCH0	ABXLMWJIXXAIN	Natalia Corres "Natalia Corres"	1	1

```
In [3]: display = pd.read_sql_query("""
SELECT UserId, ProductId, ProfileName, Time, Score, Text, COUNT(*)
FROM Reviews
GROUP BY UserId
HAVING COUNT(*)>1
""", con)
```

```
In [4]: print(display.shape)
display.head()

(80668, 7)
```

```
Out[4]:
```

	UserId	ProductId	ProfileName	Time	Score	Text	COUNT(*)
0	#oc- R115TNMSPFT9I7	B007Y59HVM	Breyton	1331510400	2	Overall its just OK when considering the price...	2

	UserId	ProductId	ProfileName	Time	Score	Text	COUNT
1	#oc-R11D9D7SHXIJB9	B005HG9ET0	Louis E. Emory "hoppy"	1342396800	5	My wife has recurring extreme muscle spasms, u...	3
2	#oc-R11DNU2NBKQ23Z	B007Y59HVM	Kim Cieszykowski	1348531200	1	This coffee is horrible and unfortunately not ...	2
3	#oc-R11O5J5ZVQE25C	B005HG9ET0	Penguin Chick	1346889600	5	This will be the bottle that you grab from the...	3
4	#oc-R12KPBODL2B5ZD	B007OSBE1U	Christopher P. Presta	1348617600	1	I didnt like this coffee. Instead of telling y...	2

In [5]: `display[display['UserId']=='AZY10LLTJ71NX']`

Out[5]:

	UserId	ProductId	ProfileName	Time	Score	Text	COUNT
80638	AZY10LLTJ71NX	B006P7E5ZI	undertheshrine "undertheshrine"	1334707200	5	I was recommended to try green tea extract to ...	5

```
In [6]: display['COUNT(*)'].sum()
```

```
Out[6]: 393063
```

```
In [7]: display= pd.read_sql_query("""
SELECT *
FROM Reviews
WHERE Score != 3 AND UserId="AR5J8UI46CURR"
ORDER BY ProductID
""", con)
display.head()
```

```
Out[7]:
```

	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	Helpfuln
0	78445	B000HDL1RQ	AR5J8UI46CURR	Geetha Krishnan	2	2
1	138317	B000HDOPYC	AR5J8UI46CURR	Geetha Krishnan	2	2
2	138277	B000HDOPYM	AR5J8UI46CURR	Geetha Krishnan	2	2

	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	Helpfuln
3	73791	B000HDOPZG	AR5J8UI46CURR	Geetha Krishnan	2	2
4	155049	B000PAQ75C	AR5J8UI46CURR	Geetha Krishnan	2	2

◀ ▶

```
In [8]: #Sorting data according to ProductId in ascending order
sorted_data=filtered_data.sort_values('ProductId', axis=0, ascending=True, inplace=False, kind='quicksort', na_position='last')
```

```
In [9]: final=sorted_data.drop_duplicates(subset={"UserId","ProfileName","Time",
"Text"}, keep='first', inplace=False)
final.shape
```

Out[9]: (46072, 10)

```
In [10]: final.head()
```

Out[10]:

	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	Help
22620	24750	2734888454	A13ISQV0U9GZIC	Sandikaye	1	1

	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	Help
22621	24751	2734888454	A1C298ITT645B6	Hugh G. Pritchard	0	0
2546	2774	B00002NCJC	A196AJHU9EASJN	Alex Chaffee	0	0
2547	2775	B00002NCJC	A13RRPGE79XFFH	reader48	0	0
1145	1244	B00002Z754	A3B8RCEI0FXFI6	B G Chase	10	10



```
In [11]: (final['Id'].size*1.0)/(filtered_data['Id'].size*1.0)*100
```

```
Out[11]: 92.144
```

```
In [12]: display= pd.read_sql_query("""
SELECT *
FROM Reviews
```

```
WHERE Score != 3 AND Id=44737 OR Id=64422
ORDER BY ProductID
""", con)

display.head()
```

Out[12]:

	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	Helpfuln
0	64422	B000MIDROQ	A161DK06JJMCYF	J. E. Stephens "Jeanne"	3	1
1	44737	B001EQ55RW	A2V0I904FH7ABY	Ram	3	2

```
In [13]: final=final[final.HelpfulnessNumerator<=final.HelpfulnessDenominator]
```

```
In [14]: final["Time"] = pd.to_datetime(final["Time"], unit = "s")
final = final.sort_values(by = "Time")
```

```
In [15]: print(final.shape)

#How many positive and negative reviews are present in our dataset?
final['Score'].value_counts()

(46071, 10)
```



```
Out[15]: 1    38479
         0     7592
         Name: Score, dtype: int64
```

```
In [16]: sum(final['Score'].isna())
         #now its fine ok sir pir se try karunga sir
```

```
Out[16]: 0
```

```
In [17]: # printing some random reviews
         sent_0 = final['Text'].values[0]
         print(sent_0)
         print("="*50)

         sent_1000 = final['Text'].values[1000]
         print(sent_1000)
         print("="*50)

         sent_1500 = final['Text'].values[1500]
         print(sent_1500)
         print("="*50)

         sent_4900 = final['Text'].values[4900]
         print(sent_4900)
         print("="*50)
```

This was a really good idea and the final product is outstanding. I use the decals on my car window and everybody asks where i bought the decals i made. Two thumbs up!

=====

Speaking as another Texan, I think the first rule for these delicious treats is to NOT order them during spring or summer. In fact, your safest bet is to ONLY order them in the dead of winter. LOL! As long as you do that, be prepared for a truly amazing treat! This package comes with 12 bite-sized delicacies. The chocolate is high-quality, the nuts are crunchy, and the overall taste couldn't be better. Definitely worth the price!

=====

Fast, easy and definitely delicious. Makes a great cup of coffee and v

ery easy to make. Good purchase. Will continue to order from here.
Thanx...

=====
Naturally this review is based upon my cat's intake of Petite Cuisine. She's not a particular picky eater, so I can't say much about that. However, she looks to really enjoy this brand of cat food. I have tried some brands of wet food in the past that have made her sick (I know cats seem to have digestive systems that are prone to upsetting!) Petite Cuisine did not have any effect there, and she really enjoyed all the flavors. I don't feed her wet food often, usually just some tuna fish now and then. So, although this food is expensive if you used it at every meal, it is priced about the same as tuna, so it fits my needs perfectly. I'm sure my cat will enjoy the rest of this case, and I can keep the canned tuna to myself for now :-)
=====

```
In [18]: # remove urls from text python: https://stackoverflow.com/a/40823105/4084039
import re
sent_0 = re.sub(r"http\S+", "", sent_0)
sent_1000 = re.sub(r"http\S+", "", sent_1000)
sent_150 = re.sub(r"http\S+", "", sent_1500)
sent_4900 = re.sub(r"http\S+", "", sent_4900)

print(sent_0)
```

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```
In [19]: from bs4 import BeautifulSoup

soup = BeautifulSoup(sent_0, 'lxml')
text = soup.get_text()
print(text)
print("="*50)

soup = BeautifulSoup(sent_1000, 'lxml')
text = soup.get_text()
```

```

print(text)
print("="*50)

soup = BeautifulSoup(sent_1500, 'lxml')
text = soup.get_text()
print(text)
print("="*50)

soup = BeautifulSoup(sent_4900, 'lxml')
text = soup.get_text()
print(text)

```

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```
In [20]: import re

def decontracted(phrase):
    # specific
    phrase = re.sub(r"won't", "will not", phrase)
    phrase = re.sub(r"can't", "can not", phrase)

    # general
    phrase = re.sub(r"n't", " not", phrase)
    phrase = re.sub(r"\ 're", " are", phrase)
    phrase = re.sub(r"\ 's", " is", phrase)
    phrase = re.sub(r"\ 'd", " would", phrase)
    phrase = re.sub(r"\ 'll", " will", phrase)
    phrase = re.sub(r"\ 't", " not", phrase)
    phrase = re.sub(r"\ 've", " have", phrase)
    phrase = re.sub(r"\ 'm", " am", phrase)
    return phrase
```

```
In [21]: sent_1500 = decontracted(sent_1500)
print(sent_1500)
print("="*50)
```

Fast, easy and definitely delicious. Makes a great cup of coffee and very easy to make. Good purchase. Will continue to order from here.
Thanx...

=====

```
In [22]: sent_0 = re.sub("\S*\d\S*", "", sent_0).strip()
print(sent_0)
```

This was a really good idea and the final product is outstanding. I use the decals on my car window and everybody asks where i bought the decals i made. Two thumbs up!

```
In [23]: sent_1500 = re.sub('[^A-Za-z0-9]+', ' ', sent_1500)
print(sent_1500)
```

Fast easy and definitely delicious Makes a great cup of coffee and very easy to make Good purchase Will continue to order from here br Thanx

```
In [24]: stopwords= set(['br', 'the', 'i', 'me', 'my', 'myself', 'we', 'our', 'o
urs', 'ourselves', 'you', "you're", "you've",\
    "you'll", "you'd", 'your', 'yours', 'yourself', 'yourselve
s', 'he', 'him', 'his', 'himself', \
    'she', "she's", 'her', 'hers', 'herself', 'it', "it's", 'it
s', 'itself', 'they', 'them', 'their',\
    'theirs', 'themselves', 'what', 'which', 'who', 'whom', 'th
is', 'that', "that'll", 'these', 'those', \
    'am', 'is', 'are', 'was', 'were', 'be', 'been', 'being', 'h
ave', 'has', 'had', 'having', 'do', 'does', \
    'did', 'doing', 'a', 'an', 'the', 'and', 'but', 'if', 'or',
    'because', 'as', 'until', 'while', 'of', \
    'at', 'by', 'for', 'with', 'about', 'against', 'between',
    'into', 'through', 'during', 'before', 'after',\
    'above', 'below', 'to', 'from', 'up', 'down', 'in', 'out',
    'on', 'off', 'over', 'under', 'again', 'further',\
    'then', 'once', 'here', 'there', 'when', 'where', 'why', 'h
ow', 'all', 'any', 'both', 'each', 'few', 'more',\
    'most', 'other', 'some', 'such', 'only', 'own', 'same', 's
o', 'than', 'too', 'very', \
    's', 't', 'can', 'will', 'just', 'don', "don't", 'should',
    "should've", 'now', 'd', 'll', 'm', 'o', 're', \
    've', 'y', 'ain', 'aren', "aren't", 'couldn', "couldn't",
    'didn', "didn't", 'doesn', "doesn't", 'hadn',\
    "hadn't", 'hasn', "hasn't", 'haven', "haven't", 'isn', "is
n't", 'ma', 'mightn', "mightn't", 'mustn',\
    "mustn't", 'needn', "needn't", 'shan', "shan't", 'shouldn',
    "shouldn't", 'wasn', "wasn't", 'weren', "weren't", \
    'won', "won't", 'wouldn', "wouldn't"])
```

```
In [25]: from tqdm import tqdm
preprocessed_reviews = []
# tqdm is for printing the status bar
for sentence in tqdm(final['Text'].values):
    sentence = re.sub(r"http\S+", "", sentence)
    sentence = BeautifulSoup(sentence, 'lxml').get_text()
    sentence = decontracted(sentence)
    sentence = re.sub("\S*\d\S*", "", sentence).strip()
```

```
sentence = re.sub('[^A-Za-z]+', ' ', sentence)
# https://gist.github.com/sebleier/554280
sentence = ' '.join(e.lower() for e in sentence.split() if e.lower()
() not in stopwords)
preprocessed_reviews.append(sentence.strip())
```

```
100%|████████████████████████████████████████| 46071/46071 [00:33<00:00, 137
6.53it/s]
```

```
In [26]: #yes sir i have nan values
#r u hea sir
X=preprocessed_reviews[:40000]
Y=final["Score"][:40000]

#tell me...now also m getting nan values
```

```
In [27]: print(len(X))
print(len(Y))
```

```
40000
40000
```

```
In [28]: from sklearn.model_selection import train_test_split
X_train,X_test,Y_train,Y_test=train_test_split(X,Y,test_size=0.33)
print(np.shape(X_train),np.shape(Y_train))
print(np.shape(X_test),np.shape(Y_test))

(26800,) (26800,)
(13200,) (13200,)
```

```
In [29]: sum(Y_train.isna())
```

```
Out[29]: 0
```

```
In [30]: from keras.preprocessing.text import Tokenizer
tokenizer=Tokenizer(num_words=5000)
tokenizer.fit_on_texts(X_train)
print("found %d unique words."%len(tokenizer.word_index))
```

found 30636 unique words.

```
In [31]: print(len(X_train[15]))  
print(X_train[15])
```

354

delicious fine grind thought coffee might little bitter not delicious s
mooth favorite coffee caribou not far behind followed instructions exac
tly using two teaspoons per water coffee maker put beans one side water
press button measuring ground coffee not thing worked great not problem
using non melitta coffee maker enjoyable rich flavor smooth not like

```
In [32]: X_train=tokenizer.texts_to_sequences(X_train)  
X_test=tokenizer.texts_to_sequences(X_test)
```

```
In [33]: print(len(X_train[15]))  
print(X_train[15])
```

54

[63, 266, 1198, 140, 9, 238, 22, 250, 1, 63, 255, 69, 9, 1627, 1, 128,
1920, 1431, 846, 442, 130, 49, 3252, 187, 39, 9, 594, 105, 268, 4, 381,
39, 1800, 3626, 2955, 475, 9, 1, 135, 677, 5, 1, 219, 130, 470, 1716,
9, 594, 1443, 279, 11, 255, 1, 2]

```
In [34]: import keras  
y_train = keras.utils.to_categorical(Y_train,2)  
y_test = keras.utils.to_categorical(Y_test,2)
```

```
In [35]: y_train
```

```
Out[35]: array([[0., 1.],  
               [0., 1.],  
               [0., 1.],  
               ...,  
               [0., 1.],  
               [1., 0.],  
               [0., 1.]], dtype=float32)
```

```
In [36]: max_review_length=600
X_train=sequence.pad_sequences(X_train,maxlen=max_review_length)
X_test=sequence.pad_sequences(X_test,maxlen=max_review_length)
```

```
In [37]: X_train[15]
```

[illegible]

[illegible]

```

0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
0,      0,      0,      0,      0,      0,      0,      0,      0,      0,
0,      0,      0,      0,      0,      0,      0,      63, 266, 1198, 14
0,      9, 238, 22, 250, 1, 63, 255, 69, 9, 1627,
1,      128, 1920, 1431, 846, 442, 130, 49, 3252, 187, 39,
9,      594, 105, 268, 4, 381, 39, 1800, 3626, 2955, 475,
9,      1, 135, 677, 5, 1, 219, 130, 470, 1716, 9, 59
4,      1443, 279, 11, 255, 1, 2])

```

In [43]: `embedding_vecor_length = 32`

```

model = Sequential()
model.add(Embedding(5001, embedding_vector_length, input_length=max_review_length))
model.add(LSTM(100))
model.add(Dropout(0.5))
model.add(Dense(2, activation='softmax'))
model.compile(loss='binary_crossentropy', optimizer='adam', metrics=['accuracy'])
print(model.summary())

```

Layer (type)	Output Shape	Param #
embedding_1 (Embedding)	(None, 600, 32)	160032
lstm_1 (LSTM)	(None, 100)	53200
dropout_1 (Dropout)	(None, 100)	0
dense_1 (Dense)	(None, 2)	202
Total params: 213,434		
Trainable params: 213,434		
Non-trainable params: 0		
None		

In [45]: `history=model.fit(X_train,y_train,batch_size=64,epochs=5,verbose=1,validation_data=(X_test,y_test))`

```

Train on 26800 samples, validate on 13200 samples
Epoch 1/5
12992/26800 [=====>.....] - ETA: 5:55 - loss: 0.6850
- acc: 0.750 - ETA: 5:50 - loss: 0.6798 - acc: 0.796 - ETA: 5:46 - loss: 0.6779 - acc: 0.786 - ETA: 5:44 - loss: 0.6722 - acc: 0.808 - ETA: 5:43 - loss: 0.6691 - acc: 0.806 - ETA: 5:43 - loss: 0.6660 - acc: 0.796 - ETA: 5:41 - loss: 0.6608 - acc: 0.799 - ETA: 5:40 - loss: 0.6520 - acc: 0.810 - ETA: 5:39 - loss: 0.6422 - acc: 0.817 - ETA: 5:38 - loss: 0.6308 - acc: 0.820 - ETA: 5:37 - loss: 0.6148 - acc: 0.823 - ETA: 5:36 - loss: 0.6130 - acc: 0.819 - ETA: 5:36 - loss: 0.5956 - acc: 0.823 - E

```

TA: 5:35 - loss: 0.5780 - acc: 0.828 - ETA: 5:35 - loss: 0.5676 - acc:
0.829 - ETA: 5:34 - loss: 0.5618 - acc: 0.828 - ETA: 5:33 - loss: 0.556
6 - acc: 0.827 - ETA: 5:33 - loss: 0.5556 - acc: 0.824 - ETA: 5:32 - lo
ss: 0.5524 - acc: 0.823 - ETA: 5:31 - loss: 0.5448 - acc: 0.825 - ETA:
5:30 - loss: 0.5365 - acc: 0.828 - ETA: 5:29 - loss: 0.5361 - acc: 0.82
6 - ETA: 5:29 - loss: 0.5313 - acc: 0.827 - ETA: 5:28 - loss: 0.5300 -
acc: 0.826 - ETA: 5:27 - loss: 0.5240 - acc: 0.827 - ETA: 5:26 - loss:
0.5191 - acc: 0.829 - ETA: 5:25 - loss: 0.5235 - acc: 0.825 - ETA: 5:25
- loss: 0.5165 - acc: 0.827 - ETA: 5:24 - loss: 0.5123 - acc: 0.828 - E
TA: 5:23 - loss: 0.5094 - acc: 0.829 - ETA: 5:23 - loss: 0.5081 - acc:
0.828 - ETA: 5:22 - loss: 0.5051 - acc: 0.829 - ETA: 5:21 - loss: 0.500
7 - acc: 0.830 - ETA: 5:20 - loss: 0.4986 - acc: 0.830 - ETA: 5:19 - lo
ss: 0.4957 - acc: 0.831 - ETA: 5:19 - loss: 0.4937 - acc: 0.831 - ETA:
5:18 - loss: 0.4906 - acc: 0.832 - ETA: 5:17 - loss: 0.4877 - acc: 0.83
3 - ETA: 5:16 - loss: 0.4860 - acc: 0.833 - ETA: 5:15 - loss: 0.4865 -
acc: 0.832 - ETA: 5:14 - loss: 0.4843 - acc: 0.833 - ETA: 5:14 - loss:
0.4814 - acc: 0.834 - ETA: 5:13 - loss: 0.4806 - acc: 0.833 - ETA: 5:12
- loss: 0.4770 - acc: 0.835 - ETA: 5:11 - loss: 0.4745 - acc: 0.836 - E
TA: 5:10 - loss: 0.4734 - acc: 0.836 - ETA: 5:10 - loss: 0.4712 - acc:
0.837 - ETA: 5:09 - loss: 0.4692 - acc: 0.837 - ETA: 5:08 - loss: 0.467
0 - acc: 0.838 - ETA: 5:08 - loss: 0.4624 - acc: 0.840 - ETA: 5:07 - lo
ss: 0.4636 - acc: 0.839 - ETA: 5:06 - loss: 0.4611 - acc: 0.839 - ETA:
5:07 - loss: 0.4613 - acc: 0.839 - ETA: 5:07 - loss: 0.4612 - acc: 0.83
8 - ETA: 5:06 - loss: 0.4588 - acc: 0.839 - ETA: 5:06 - loss: 0.4577 -
acc: 0.839 - ETA: 5:06 - loss: 0.4555 - acc: 0.840 - ETA: 5:05 - loss:
0.4533 - acc: 0.841 - ETA: 5:04 - loss: 0.4532 - acc: 0.840 - ETA: 5:03
- loss: 0.4528 - acc: 0.840 - ETA: 5:02 - loss: 0.4508 - acc: 0.841 - E
TA: 5:01 - loss: 0.4495 - acc: 0.841 - ETA: 5:00 - loss: 0.4477 - acc:
0.841 - ETA: 4:59 - loss: 0.4465 - acc: 0.841 - ETA: 4:59 - loss: 0.445
1 - acc: 0.842 - ETA: 4:58 - loss: 0.4430 - acc: 0.842 - ETA: 4:58 - lo
ss: 0.4416 - acc: 0.842 - ETA: 4:57 - loss: 0.4417 - acc: 0.842 - ETA:
4:56 - loss: 0.4401 - acc: 0.842 - ETA: 4:55 - loss: 0.4396 - acc: 0.84
2 - ETA: 4:54 - loss: 0.4389 - acc: 0.842 - ETA: 4:53 - loss: 0.4385 -
acc: 0.841 - ETA: 4:52 - loss: 0.4374 - acc: 0.841 - ETA: 4:51 - loss:
0.4362 - acc: 0.841 - ETA: 4:51 - loss: 0.4347 - acc: 0.841 - ETA: 4:51
- loss: 0.4336 - acc: 0.841 - ETA: 4:51 - loss: 0.4326 - acc: 0.841 - E
TA: 4:51 - loss: 0.4297 - acc: 0.842 - ETA: 4:51 - loss: 0.4291 - acc:
0.842 - ETA: 4:51 - loss: 0.4280 - acc: 0.842 - ETA: 4:50 - loss: 0.425
1 - acc: 0.843 - ETA: 4:49 - loss: 0.4270 - acc: 0.842 - ETA: 4:48 - lo

ss: 0.4259 - acc: 0.842 - ETA: 4:47 - loss: 0.4243 - acc: 0.843 - ETA: 4:46 - loss: 0.4238 - acc: 0.842 - ETA: 4:45 - loss: 0.4226 - acc: 0.843 - ETA: 4:44 - loss: 0.4224 - acc: 0.842 - ETA: 4:43 - loss: 0.4209 - acc: 0.843 - ETA: 4:42 - loss: 0.4201 - acc: 0.843 - ETA: 4:42 - loss: 0.4194 - acc: 0.843 - ETA: 4:41 - loss: 0.4185 - acc: 0.843 - ETA: 4:40 - loss: 0.4174 - acc: 0.843 - ETA: 4:39 - loss: 0.4167 - acc: 0.843 - ETA: 4:38 - loss: 0.4160 - acc: 0.843 - ETA: 4:37 - loss: 0.4159 - acc: 0.842 - ETA: 4:36 - loss: 0.4154 - acc: 0.842 - ETA: 4:36 - loss: 0.4147 - acc: 0.842 - ETA: 4:35 - loss: 0.4128 - acc: 0.843 - ETA: 4:34 - loss: 0.4107 - acc: 0.844 - ETA: 4:33 - loss: 0.4108 - acc: 0.843 - ETA: 4:32 - loss: 0.4100 - acc: 0.843 - ETA: 4:31 - loss: 0.4084 - acc: 0.843 - ETA: 4:30 - loss: 0.4070 - acc: 0.843 - ETA: 4:29 - loss: 0.4054 - acc: 0.844 - ETA: 4:28 - loss: 0.4036 - acc: 0.844 - ETA: 4:27 - loss: 0.4033 - acc: 0.844 - ETA: 4:26 - loss: 0.4015 - acc: 0.845 - ETA: 4:25 - loss: 0.4021 - acc: 0.845 - ETA: 4:24 - loss: 0.4004 - acc: 0.846 - ETA: 4:23 - loss: 0.3997 - acc: 0.846 - ETA: 4:22 - loss: 0.3999 - acc: 0.846 - ETA: 4:21 - loss: 0.3992 - acc: 0.846 - ETA: 4:21 - loss: 0.3982 - acc: 0.847 - ETA: 4:20 - loss: 0.3973 - acc: 0.847 - ETA: 4:19 - loss: 0.3967 - acc: 0.847 - ETA: 4:18 - loss: 0.3949 - acc: 0.848 - ETA: 4:17 - loss: 0.3935 - acc: 0.848 - ETA: 4:16 - loss: 0.3931 - acc: 0.848 - ETA: 4:15 - loss: 0.3933 - acc: 0.848 - ETA: 4:14 - loss: 0.3910 - acc: 0.849 - ETA: 4:13 - loss: 0.3888 - acc: 0.850 - ETA: 4:12 - loss: 0.3875 - acc: 0.851 - ETA: 4:11 - loss: 0.3854 - acc: 0.852 - ETA: 4:11 - loss: 0.3847 - acc: 0.852 - ETA: 4:10 - loss: 0.3851 - acc: 0.852 - ETA: 4:09 - loss: 0.3845 - acc: 0.852 - ETA: 4:08 - loss: 0.3835 - acc: 0.852 - ETA: 4:07 - loss: 0.3834 - acc: 0.852 - ETA: 4:06 - loss: 0.3833 - acc: 0.852 - ETA: 4:05 - loss: 0.3841 - acc: 0.852 - ETA: 4:04 - loss: 0.3841 - acc: 0.852 - ETA: 4:03 - loss: 0.3835 - acc: 0.852 - ETA: 4:02 - loss: 0.3832 - acc: 0.852 - ETA: 4:02 - loss: 0.3830 - acc: 0.852 - ETA: 4:01 - loss: 0.3824 - acc: 0.853 - ETA: 4:00 - loss: 0.3822 - acc: 0.853 - ETA: 3:59 - loss: 0.3815 - acc: 0.853 - ETA: 3:58 - loss: 0.3809 - acc: 0.853 - ETA: 3:57 - loss: 0.3801 - acc: 0.854 - ETA: 3:56 - loss: 0.3796 - acc: 0.854 - ETA: 3:58 - loss: 0.3796 - acc: 0.854 - ETA: 3:59 - loss: 0.3791 - acc: 0.854 - ETA: 4:00 - loss: 0.3782 - acc: 0.854 - ETA: 4:00 - loss: 0.3777 - acc: 0.854 - ETA: 4:00 - loss: 0.3770 - acc: 0.855 - ETA: 4:00 - loss: 0.3764 - acc: 0.855 - ETA: 4:00 - loss: 0.3749 - acc: 0.855 - ETA: 4:00 - loss: 0.3742 - acc: 0.855 - ETA: 3:59 - loss: 0.3739 - acc: 0.855 - ETA: 3:59 - loss: 0.3734 - acc: 0.855 - ETA: 3:58 - loss: 0.3735 - acc: 0.856 - ETA: 3:57 - loss: 0.3734 -

acc: 0.855 - ETA: 3:57 - loss: 0.3727 - acc: 0.856 - ETA: 3:56 - loss:
0.3720 - acc: 0.856 - ETA: 3:55 - loss: 0.3713 - acc: 0.856 - ETA: 3:54
- loss: 0.3715 - acc: 0.856 - ETA: 3:54 - loss: 0.3711 - acc: 0.856 - E
TA: 3:53 - loss: 0.3706 - acc: 0.856 - ETA: 3:52 - loss: 0.3700 - acc:
0.857 - ETA: 3:51 - loss: 0.3700 - acc: 0.856 - ETA: 3:51 - loss: 0.369
7 - acc: 0.856 - ETA: 3:50 - loss: 0.3688 - acc: 0.857 - ETA: 3:49 - lo
ss: 0.3683 - acc: 0.857 - ETA: 3:48 - loss: 0.3678 - acc: 0.857 - ETA:
3:48 - loss: 0.3674 - acc: 0.857 - ETA: 3:47 - loss: 0.3676 - acc: 0.85
7 - ETA: 3:46 - loss: 0.3667 - acc: 0.857 - ETA: 3:45 - loss: 0.3657 -
acc: 0.857 - ETA: 3:44 - loss: 0.3648 - acc: 0.858 - ETA: 3:44 - loss:
0.3640 - acc: 0.858 - ETA: 3:43 - loss: 0.3641 - acc: 0.858 - ETA: 3:42
- loss: 0.3634 - acc: 0.858 - ETA: 3:41 - loss: 0.3626 - acc: 0.858 - E
TA: 3:40 - loss: 0.3617 - acc: 0.858 - ETA: 3:40 - loss: 0.3615 - acc:
0.858 - ETA: 3:39 - loss: 0.3613 - acc: 0.858 - ETA: 3:38 - loss: 0.361
1 - acc: 0.858 - ETA: 3:37 - loss: 0.3610 - acc: 0.859 - ETA: 3:36 - lo
ss: 0.3602 - acc: 0.859 - ETA: 3:36 - loss: 0.3601 - acc: 0.859 - ETA:
3:35 - loss: 0.3599 - acc: 0.859 - ETA: 3:34 - loss: 0.3604 - acc: 0.85
9 - ETA: 3:33 - loss: 0.3595 - acc: 0.860 - ETA: 3:32 - loss: 0.3591 -
acc: 0.860 - ETA: 3:32 - loss: 0.3584 - acc: 0.860 - ETA: 3:31 - loss:
0.3585 - acc: 0.860 - ETA: 3:30 - loss: 0.3578 - acc: 0.860 - ETA: 3:29
- loss: 0.3574 - acc: 0.861 - ETA: 3:28 - loss: 0.3570 - acc: 0.861 - E
TA: 3:27 - loss: 0.3565 - acc: 0.861 - ETA: 3:27 - loss: 0.3553 - acc:
0.861 - ETA: 3:26 - loss: 0.3545 - acc: 0.862 - ETA: 3:25 - loss: 0.354
1 - acc: 0.862 - ETA: 3:24 - loss: 0.3533 - acc: 0.862 - ETA: 3:23 - lo
ss: 0.3532 - acc: 0.862 - ETA: 3:22 - loss: 0.3527 - acc: 0.862 - ETA:
3:22 - loss: 0.3518 - acc: 0.863 - ETA: 3:21 - loss: 0.3510 - acc: 0.86
3 - ETA: 3:20 - loss: 0.3508 - acc: 0.863 - ETA: 3:19 - loss: 0.3501 -
acc: 0.863 - ETA: 3:18 - loss: 0.3494 - acc: 0.864 - ETA: 3:17 - loss:
0.3484 - acc: 0.864 - ETA: 3:17 - loss: 0.3476 - acc: 0.86426240/26800
[=====>.] - ETA: 3:16 - loss: 0.3473 - acc: 0.86
4 - ETA: 3:15 - loss: 0.3470 - acc: 0.864 - ETA: 3:14 - loss: 0.3461 -
acc: 0.865 - ETA: 3:13 - loss: 0.3454 - acc: 0.865 - ETA: 3:12 - loss:
0.3450 - acc: 0.865 - ETA: 3:12 - loss: 0.3445 - acc: 0.865 - ETA: 3:11
- loss: 0.3442 - acc: 0.865 - ETA: 3:10 - loss: 0.3432 - acc: 0.866 - E
TA: 3:09 - loss: 0.3442 - acc: 0.865 - ETA: 3:08 - loss: 0.3436 - acc:
0.866 - ETA: 3:07 - loss: 0.3432 - acc: 0.866 - ETA: 3:07 - loss: 0.342
7 - acc: 0.866 - ETA: 3:06 - loss: 0.3423 - acc: 0.866 - ETA: 3:05 - lo
ss: 0.3417 - acc: 0.867 - ETA: 3:04 - loss: 0.3410 - acc: 0.867 - ETA:
3:03 - loss: 0.3408 - acc: 0.867 - ETA: 3:02 - loss: 0.3407 - acc: 0.86

7 - ETA: 3:02 - loss: 0.3403 - acc: 0.867 - ETA: 3:01 - loss: 0.3398 -
acc: 0.867 - ETA: 3:00 - loss: 0.3398 - acc: 0.867 - ETA: 2:59 - loss:
0.3394 - acc: 0.867 - ETA: 2:58 - loss: 0.3389 - acc: 0.867 - ETA: 2:57
- loss: 0.3384 - acc: 0.867 - ETA: 2:57 - loss: 0.3384 - acc: 0.867 - E
TA: 2:56 - loss: 0.3382 - acc: 0.867 - ETA: 2:55 - loss: 0.3380 - acc:
0.867 - ETA: 2:54 - loss: 0.3383 - acc: 0.867 - ETA: 2:53 - loss: 0.338
0 - acc: 0.868 - ETA: 2:52 - loss: 0.3380 - acc: 0.868 - ETA: 2:51 - lo
ss: 0.3375 - acc: 0.868 - ETA: 2:50 - loss: 0.3372 - acc: 0.868 - ETA:
2:50 - loss: 0.3368 - acc: 0.868 - ETA: 2:49 - loss: 0.3364 - acc: 0.86
8 - ETA: 2:48 - loss: 0.3362 - acc: 0.868 - ETA: 2:47 - loss: 0.3357 -
acc: 0.868 - ETA: 2:46 - loss: 0.3352 - acc: 0.868 - ETA: 2:45 - loss:
0.3345 - acc: 0.868 - ETA: 2:44 - loss: 0.3343 - acc: 0.869 - ETA: 2:44
- loss: 0.3335 - acc: 0.869 - ETA: 2:43 - loss: 0.3335 - acc: 0.869 - E
TA: 2:42 - loss: 0.3329 - acc: 0.869 - ETA: 2:41 - loss: 0.3323 - acc:
0.870 - ETA: 2:40 - loss: 0.3316 - acc: 0.870 - ETA: 2:39 - loss: 0.331
2 - acc: 0.870 - ETA: 2:38 - loss: 0.3305 - acc: 0.870 - ETA: 2:37 - lo
ss: 0.3302 - acc: 0.871 - ETA: 2:36 - loss: 0.3302 - acc: 0.871 - ETA:
2:35 - loss: 0.3295 - acc: 0.871 - ETA: 2:35 - loss: 0.3292 - acc: 0.87
1 - ETA: 2:34 - loss: 0.3286 - acc: 0.871 - ETA: 2:33 - loss: 0.3282 -
acc: 0.871 - ETA: 2:32 - loss: 0.3281 - acc: 0.871 - ETA: 2:31 - loss:
0.3281 - acc: 0.871 - ETA: 2:30 - loss: 0.3274 - acc: 0.871 - ETA: 2:29
- loss: 0.3270 - acc: 0.872 - ETA: 2:28 - loss: 0.3264 - acc: 0.872 - E
TA: 2:27 - loss: 0.3259 - acc: 0.872 - ETA: 2:27 - loss: 0.3256 - acc:
0.872 - ETA: 2:26 - loss: 0.3253 - acc: 0.872 - ETA: 2:25 - loss: 0.324
5 - acc: 0.873 - ETA: 2:24 - loss: 0.3239 - acc: 0.873 - ETA: 2:23 - lo
ss: 0.3239 - acc: 0.873 - ETA: 2:22 - loss: 0.3231 - acc: 0.873 - ETA:
2:21 - loss: 0.3230 - acc: 0.873 - ETA: 2:20 - loss: 0.3223 - acc: 0.87
3 - ETA: 2:19 - loss: 0.3216 - acc: 0.874 - ETA: 2:18 - loss: 0.3213 -
acc: 0.874 - ETA: 2:18 - loss: 0.3210 - acc: 0.874 - ETA: 2:17 - loss:
0.3207 - acc: 0.874 - ETA: 2:16 - loss: 0.3207 - acc: 0.874 - ETA: 2:15
- loss: 0.3203 - acc: 0.874 - ETA: 2:14 - loss: 0.3201 - acc: 0.874 - E
TA: 2:13 - loss: 0.3199 - acc: 0.874 - ETA: 2:12 - loss: 0.3195 - acc:
0.874 - ETA: 2:11 - loss: 0.3192 - acc: 0.874 - ETA: 2:10 - loss: 0.318
9 - acc: 0.874 - ETA: 2:09 - loss: 0.3185 - acc: 0.875 - ETA: 2:08 - lo
ss: 0.3180 - acc: 0.875 - ETA: 2:07 - loss: 0.3177 - acc: 0.875 - ETA:
2:07 - loss: 0.3169 - acc: 0.875 - ETA: 2:06 - loss: 0.3169 - acc: 0.87
5 - ETA: 2:05 - loss: 0.3171 - acc: 0.875 - ETA: 2:04 - loss: 0.3166 -
acc: 0.876 - ETA: 2:03 - loss: 0.3164 - acc: 0.876 - ETA: 2:02 - loss:
0.3160 - acc: 0.876 - ETA: 2:01 - loss: 0.3158 - acc: 0.876 - ETA: 2:00

- loss: 0.3156 - acc: 0.876 - ETA: 1:59 - loss: 0.3152 - acc: 0.876 - ETA: 1:58 - loss: 0.3152 - acc: 0.876 - ETA: 1:57 - loss: 0.3147 - acc: 0.877 - ETA: 1:56 - loss: 0.3143 - acc: 0.877 - ETA: 1:56 - loss: 0.3146 - acc: 0.877 - ETA: 1:55 - loss: 0.3144 - acc: 0.877 - ETA: 1:54 - loss: 0.3143 - acc: 0.877 - ETA: 1:53 - loss: 0.3140 - acc: 0.877 - ETA: 1:52 - loss: 0.3137 - acc: 0.877 - ETA: 1:51 - loss: 0.3133 - acc: 0.877 - ETA: 1:50 - loss: 0.3130 - acc: 0.877 - ETA: 1:49 - loss: 0.3126 - acc: 0.877 - ETA: 1:48 - loss: 0.3122 - acc: 0.878 - ETA: 1:47 - loss: 0.3124 - acc: 0.878 - ETA: 1:46 - loss: 0.3123 - acc: 0.878 - ETA: 1:45 - loss: 0.3121 - acc: 0.878 - ETA: 1:45 - loss: 0.3119 - acc: 0.878 - ETA: 1:44 - loss: 0.3114 - acc: 0.878 - ETA: 1:43 - loss: 0.3110 - acc: 0.878 - ETA: 1:42 - loss: 0.3105 - acc: 0.878 - ETA: 1:41 - loss: 0.3101 - acc: 0.878 - ETA: 1:40 - loss: 0.3099 - acc: 0.878 - ETA: 1:39 - loss: 0.3107 - acc: 0.878 - ETA: 1:38 - loss: 0.3104 - acc: 0.878 - ETA: 1:37 - loss: 0.3102 - acc: 0.879 - ETA: 1:36 - loss: 0.3100 - acc: 0.879 - ETA: 1:35 - loss: 0.3097 - acc: 0.879 - ETA: 1:34 - loss: 0.3091 - acc: 0.879 - ETA: 1:33 - loss: 0.3086 - acc: 0.879 - ETA: 1:33 - loss: 0.3083 - acc: 0.880 - ETA: 1:32 - loss: 0.3082 - acc: 0.880 - ETA: 1:31 - loss: 0.3079 - acc: 0.880 - ETA: 1:30 - loss: 0.3075 - acc: 0.880 - ETA: 1:29 - loss: 0.3076 - acc: 0.880 - ETA: 1:28 - loss: 0.3074 - acc: 0.880 - ETA: 1:27 - loss: 0.3076 - acc: 0.880 - ETA: 1:26 - loss: 0.3078 - acc: 0.880 - ETA: 1:25 - loss: 0.3074 - acc: 0.880 - ETA: 1:24 - loss: 0.3072 - acc: 0.880 - ETA: 1:23 - loss: 0.3069 - acc: 0.880 - ETA: 1:22 - loss: 0.3068 - acc: 0.880 - ETA: 1:21 - loss: 0.3069 - acc: 0.880 - ETA: 1:20 - loss: 0.3070 - acc: 0.880 - ETA: 1:19 - loss: 0.3066 - acc: 0.880 - ETA: 1:19 - loss: 0.3066 - acc: 0.880 - ETA: 1:18 - loss: 0.3066 - acc: 0.880 - ETA: 1:17 - loss: 0.3063 - acc: 0.880 - ETA: 1:16 - loss: 0.3065 - acc: 0.880 - ETA: 1:15 - loss: 0.3065 - acc: 0.880 - ETA: 1:14 - loss: 0.3061 - acc: 0.880 - ETA: 1:13 - loss: 0.3061 - acc: 0.880 - ETA: 1:12 - loss: 0.3058 - acc: 0.880 - ETA: 1:11 - loss: 0.3058 - acc: 0.880 - ETA: 1:10 - loss: 0.3055 - acc: 0.880 - ETA: 1:09 - loss: 0.3055 - acc: 0.880 - ETA: 1:08 - loss: 0.3054 - acc: 0.880 - ETA: 1:07 - loss: 0.3052 - acc: 0.880 - ETA: 1:06 - loss: 0.3051 - acc: 0.880 - ETA: 1:05 - loss: 0.3048 - acc: 0.880 - ETA: 1:05 - loss: 0.3046 - acc: 0.881 - ETA: 1:04 - loss: 0.3045 - acc: 0.881 - ETA: 1:03 - loss: 0.3044 - acc: 0.880 - ETA: 1:02 - loss: 0.3039 - acc: 0.881 - ETA: 1:01 - loss: 0.3038 - acc: 0.881 - ETA: 1:00 - loss: 0.3036 - acc: 0.881 - ETA: 59s - loss: 0.3031 - acc: 0.881 - ETA: 58s - loss: 0.3028 - acc: 0.88 - ETA: 57s - loss: 0.3024 - acc: 0.88 - ETA: 56s - loss: 0.3027 - acc: 0.88


```

c: 0.88 - ETA: 55s - loss: 0.3023 - acc: 0.88 - ETA: 54s - loss: 0.3020
- acc: 0.88 - ETA: 53s - loss: 0.3019 - acc: 0.88 - ETA: 52s - loss: 0.
3016 - acc: 0.88 - ETA: 51s - loss: 0.3016 - acc: 0.88 - ETA: 50s - los
s: 0.3015 - acc: 0.88 - ETA: 49s - loss: 0.3011 - acc: 0.88 - ETA: 49s
- loss: 0.3010 - acc: 0.88 - ETA: 48s - loss: 0.3007 - acc: 0.88 - ETA:
47s - loss: 0.3003 - acc: 0.88 - ETA: 46s - loss: 0.3000 - acc: 0.88 -
ETA: 45s - loss: 0.2998 - acc: 0.88 - ETA: 44s - loss: 0.2997 - acc: 0.
88 - ETA: 43s - loss: 0.2994 - acc: 0.88 - ETA: 42s - loss: 0.2995 - ac
c: 0.88 - ETA: 41s - loss: 0.2996 - acc: 0.88 - ETA: 40s - loss: 0.2991
- acc: 0.88 - ETA: 39s - loss: 0.2989 - acc: 0.88 - ETA: 38s - loss: 0.
2987 - acc: 0.88 - ETA: 37s - loss: 0.2984 - acc: 0.88 - ETA: 36s - los
s: 0.2984 - acc: 0.88 - ETA: 35s - loss: 0.2983 - acc: 0.88 - ETA: 34s
- loss: 0.2980 - acc: 0.88 - ETA: 33s - loss: 0.2976 - acc: 0.88 - ETA:
32s - loss: 0.2974 - acc: 0.88 - ETA: 32s - loss: 0.2971 - acc: 0.88 -
ETA: 31s - loss: 0.2966 - acc: 0.88 - ETA: 30s - loss: 0.2965 - acc: 0.
88 - ETA: 29s - loss: 0.2968 - acc: 0.88 - ETA: 28s - loss: 0.2971 - ac
c: 0.88 - ETA: 27s - loss: 0.2966 - acc: 0.88 - ETA: 26s - loss: 0.2965
- acc: 0.88 - ETA: 25s - loss: 0.2962 - acc: 0.88 - ETA: 24s - loss: 0.
2959 - acc: 0.88 - ETA: 23s - loss: 0.2957 - acc: 0.88 - ETA: 22s - los
s: 0.2955 - acc: 0.88 - ETA: 21s - loss: 0.2953 - acc: 0.88 - ETA: 20s
- loss: 0.2952 - acc: 0.88 - ETA: 19s - loss: 0.2950 - acc: 0.88 - ETA:
18s - loss: 0.2946 - acc: 0.88 - ETA: 17s - loss: 0.2945 - acc: 0.88 -
ETA: 16s - loss: 0.2942 - acc: 0.88 - ETA: 15s - loss: 0.2941 - acc: 0.
88 - ETA: 14s - loss: 0.2939 - acc: 0.88 - ETA: 14s - loss: 0.2935 - ac
c: 0.88 - ETA: 13s - loss: 0.2938 - acc: 0.88 - ETA: 12s - loss: 0.2934
- acc: 0.88 - ETA: 11s - loss: 0.2929 - acc: 0.88 - ETA: 10s - loss: 0.
2928 - acc: 0.88 - ETA: 9s - loss: 0.2926 - acc: 0.8857 - ETA: 8s - los
s: 0.2926 - acc: 0.885826800/26800 [=====] - E
TA: 7s - loss: 0.2930 - acc: 0.885 - ETA: 6s - loss: 0.2928 - acc: 0.88
5 - ETA: 5s - loss: 0.2927 - acc: 0.885 - ETA: 4s - loss: 0.2924 - acc:
0.886 - ETA: 3s - loss: 0.2925 - acc: 0.886 - ETA: 2s - loss: 0.2925 -
acc: 0.885 - ETA: 1s - loss: 0.2923 - acc: 0.886 - ETA: 0s - loss: 0.29
22 - acc: 0.886 - 453s 17ms/step - loss: 0.2920 - acc: 0.8861 - val_loss
s: 0.2277 - val_acc: 0.9100
Epoch 2/5
13056/26800 [=====>.....] - ETA: 6:57 - loss: 0.1525
- acc: 1.000 - ETA: 6:58 - loss: 0.1491 - acc: 0.984 - ETA: 6:53 - los
s: 0.1382 - acc: 0.984 - ETA: 6:50 - loss: 0.1378 - acc: 0.980 - ETA:
6:48 - loss: 0.1563 - acc: 0.965 - ETA: 6:46 - loss: 0.1613 - acc: 0.96

```

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- loss: 0.1762 - acc: 0.934 - ETA: 2:46 - loss: 0.1765 - acc: 0.933 - E
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- loss: 0.1778 - acc: 0.932 - ETA: 2:14 - loss: 0.1779 - acc: 0.932 - E

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- loss: 0.1788 - acc: 0.931 - ETA: 1:42 - loss: 0.1786 - acc: 0.931 - E
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- loss: 0.1800 - acc: 0.930 - ETA: 1:11 - loss: 0.1798 - acc: 0.930 - E
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0 - ETA: 1:01 - loss: 0.1809 - acc: 0.930 - ETA: 1:00 - loss: 0.1812 -
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- loss: 0.1811 - acc: 0.93 - ETA: 53s - loss: 0.1811 - acc: 0.93 - ETA:
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- acc: 0.93 - ETA: 44s - loss: 0.1808 - acc: 0.93 - ETA: 43s - loss: 0.
1808 - acc: 0.93 - ETA: 42s - loss: 0.1810 - acc: 0.93 - ETA: 42s - los
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- loss: 0.1816 - acc: 0.93 - ETA: 39s - loss: 0.1816 - acc: 0.93 - ETA:
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c: 0.93 - ETA: 32s - loss: 0.1815 - acc: 0.93 - ETA: 31s - loss: 0.1815
- acc: 0.93 - ETA: 30s - loss: 0.1816 - acc: 0.93 - ETA: 29s - loss: 0.
1816 - acc: 0.93 - ETA: 28s - loss: 0.1818 - acc: 0.93 - ETA: 27s - los
s: 0.1818 - acc: 0.93 - ETA: 26s - loss: 0.1817 - acc: 0.93 - ETA: 25s
- loss: 0.1816 - acc: 0.93 - ETA: 24s - loss: 0.1814 - acc: 0.93 - ETA:
23s - loss: 0.1814 - acc: 0.93 - ETA: 22s - loss: 0.1813 - acc: 0.93 -
ETA: 21s - loss: 0.1815 - acc: 0.93 - ETA: 20s - loss: 0.1814 - acc: 0.
93 - ETA: 19s - loss: 0.1814 - acc: 0.93 - ETA: 18s - loss: 0.1815 - ac
c: 0.93 - ETA: 17s - loss: 0.1814 - acc: 0.93 - ETA: 16s - loss: 0.1815
- acc: 0.93 - ETA: 15s - loss: 0.1814 - acc: 0.93 - ETA: 14s - loss: 0.
1814 - acc: 0.93 - ETA: 13s - loss: 0.1811 - acc: 0.93 - ETA: 12s - los
s: 0.1812 - acc: 0.93 - ETA: 11s - loss: 0.1812 - acc: 0.93 - ETA: 10s
- loss: 0.1812 - acc: 0.93 - ETA: 9s - loss: 0.1812 - acc: 0.9304 - ET
A: 8s - loss: 0.1811 - acc: 0.930 - ETA: 7s - loss: 0.1812 - acc: 0.930
526800/26800 [=====] - ETA: 6s - loss: 0.1813
- acc: 0.930 - ETA: 5s - loss: 0.1810 - acc: 0.930 - ETA: 4s - loss: 0.
1810 - acc: 0.930 - ETA: 3s - loss: 0.1811 - acc: 0.930 - ETA: 2s - los
s: 0.1812 - acc: 0.930 - ETA: 1s - loss: 0.1811 - acc: 0.930 - ETA: 0s
- loss: 0.1812 - acc: 0.930 - 467s 17ms/step - loss: 0.1813 - acc: 0.93
02 - val_loss: 0.2234 - val_acc: 0.9113
Epoch 3/5

13056/26800 [=====>.....] - ETA: 6:55 - loss: 0.1379
- acc: 0.937 - ETA: 6:53 - loss: 0.1298 - acc: 0.937 - ETA: 6:51 - loss: 0.1343 - acc: 0.937 - ETA: 6:49 - loss: 0.1395 - acc: 0.933 - ETA: 6:47 - loss: 0.1331 - acc: 0.937 - ETA: 6:45 - loss: 0.1354 - acc: 0.937 - ETA: 6:44 - loss: 0.1488 - acc: 0.937 - ETA: 6:43 - loss: 0.1547 - acc: 0.935 - ETA: 6:42 - loss: 0.1491 - acc: 0.937 - ETA: 6:41 - loss: 0.1565 - acc: 0.939 - ETA: 6:40 - loss: 0.1497 - acc: 0.941 - ETA: 6:39 - loss: 0.1486 - acc: 0.942 - ETA: 6:37 - loss: 0.1451 - acc: 0.944 - ETA: 6:36 - loss: 0.1467 - acc: 0.944 - ETA: 6:35 - loss: 0.1441 - acc: 0.946 - ETA: 6:34 - loss: 0.1466 - acc: 0.945 - ETA: 6:33 - loss: 0.1415 - acc: 0.946 - ETA: 6:32 - loss: 0.1380 - acc: 0.948 - ETA: 6:31 - loss: 0.1425 - acc: 0.947 - ETA: 6:30 - loss: 0.1415 - acc: 0.946 - ETA: 6:29 - loss: 0.1397 - acc: 0.947 - ETA: 6:28 - loss: 0.1391 - acc: 0.947 - ETA: 6:27 - loss: 0.1358 - acc: 0.949 - ETA: 6:27 - loss: 0.1330 - acc: 0.949 - ETA: 6:26 - loss: 0.1320 - acc: 0.951 - ETA: 6:25 - loss: 0.1290 - acc: 0.953 - ETA: 6:24 - loss: 0.1270 - acc: 0.953 - ETA: 6:23 - loss: 0.1257 - acc: 0.954 - ETA: 6:22 - loss: 0.1271 - acc: 0.953 - ETA: 6:21 - loss: 0.1251 - acc: 0.953 - ETA: 6:20 - loss: 0.1260 - acc: 0.953 - ETA: 6:19 - loss: 0.1288 - acc: 0.952 - ETA: 6:18 - loss: 0.1310 - acc: 0.951 - ETA: 6:17 - loss: 0.1287 - acc: 0.952 - ETA: 6:16 - loss: 0.1304 - acc: 0.952 - ETA: 6:15 - loss: 0.1289 - acc: 0.953 - ETA: 6:14 - loss: 0.1279 - acc: 0.953 - ETA: 6:13 - loss: 0.1282 - acc: 0.953 - ETA: 6:12 - loss: 0.1306 - acc: 0.953 - ETA: 6:11 - loss: 0.1299 - acc: 0.953 - ETA: 6:10 - loss: 0.1302 - acc: 0.953 - ETA: 6:09 - loss: 0.1296 - acc: 0.954 - ETA: 6:08 - loss: 0.1297 - acc: 0.954 - ETA: 6:07 - loss: 0.1277 - acc: 0.955 - ETA: 6:06 - loss: 0.1299 - acc: 0.954 - ETA: 6:05 - loss: 0.1306 - acc: 0.953 - ETA: 6:04 - loss: 0.1317 - acc: 0.953 - ETA: 6:03 - loss: 0.1310 - acc: 0.953 - ETA: 6:02 - loss: 0.1297 - acc: 0.953 - ETA: 6:01 - loss: 0.1303 - acc: 0.953 - ETA: 6:00 - loss: 0.1308 - acc: 0.953 - ETA: 5:59 - loss: 0.1315 - acc: 0.953 - ETA: 5:58 - loss: 0.1314 - acc: 0.953 - ETA: 5:57 - loss: 0.1311 - acc: 0.953 - ETA: 5:56 - loss: 0.1321 - acc: 0.952 - ETA: 5:55 - loss: 0.1337 - acc: 0.952 - ETA: 5:54 - loss: 0.1344 - acc: 0.951 - ETA: 5:53 - loss: 0.1338 - acc: 0.952 - ETA: 5:52 - loss: 0.1337 - acc: 0.952 - ETA: 5:51 - loss: 0.1324 - acc: 0.952 - ETA: 5:50 - loss: 0.1316 - acc: 0.952 - ETA: 5:49 - loss: 0.1308 - acc: 0.953 - ETA: 5:48 - loss: 0.1303 - acc: 0.953 - ETA: 5:47 - loss: 0.1304 - acc: 0.953 - ETA: 5:46 - loss: 0.1306 - acc: 0.953 - ETA: 5:45 - loss: 0.1305 - acc: 0.953 - ETA: 5:45 - loss: 0.1306 - acc: 0.952 - ETA: 5:44 - loss: 0.1303 - acc: 0.953 - ETA:

5:43 - loss: 0.1299 - acc: 0.953 - ETA: 5:42 - loss: 0.1327 - acc: 0.952 - ETA: 5:41 - loss: 0.1323 - acc: 0.952 - ETA: 5:40 - loss: 0.1328 - acc: 0.951 - ETA: 5:39 - loss: 0.1316 - acc: 0.952 - ETA: 5:38 - loss: 0.1311 - acc: 0.952 - ETA: 5:38 - loss: 0.1310 - acc: 0.952 - ETA: 5:37 - loss: 0.1317 - acc: 0.952 - ETA: 5:36 - loss: 0.1320 - acc: 0.952 - ETA: 5:35 - loss: 0.1328 - acc: 0.951 - ETA: 5:34 - loss: 0.1328 - acc: 0.951 - ETA: 5:33 - loss: 0.1319 - acc: 0.952 - ETA: 5:32 - loss: 0.1319 - acc: 0.951 - ETA: 5:31 - loss: 0.1323 - acc: 0.951 - ETA: 5:30 - loss: 0.1327 - acc: 0.951 - ETA: 5:29 - loss: 0.1326 - acc: 0.951 - ETA: 5:28 - loss: 0.1325 - acc: 0.951 - ETA: 5:27 - loss: 0.1334 - acc: 0.950 - ETA: 5:26 - loss: 0.1328 - acc: 0.951 - ETA: 5:25 - loss: 0.1331 - acc: 0.950 - ETA: 5:24 - loss: 0.1324 - acc: 0.951 - ETA: 5:23 - loss: 0.1329 - acc: 0.950 - ETA: 5:22 - loss: 0.1323 - acc: 0.951 - ETA: 5:21 - loss: 0.1335 - acc: 0.950 - ETA: 5:20 - loss: 0.1338 - acc: 0.950 - ETA: 5:19 - loss: 0.1332 - acc: 0.950 - ETA: 5:18 - loss: 0.1333 - acc: 0.950 - ETA: 5:17 - loss: 0.1338 - acc: 0.950 - ETA: 5:16 - loss: 0.1336 - acc: 0.950 - ETA: 5:15 - loss: 0.1328 - acc: 0.951 - ETA: 5:14 - loss: 0.1324 - acc: 0.951 - ETA: 5:13 - loss: 0.1325 - acc: 0.950 - ETA: 5:12 - loss: 0.1337 - acc: 0.950 - ETA: 5:11 - loss: 0.1343 - acc: 0.950 - ETA: 5:10 - loss: 0.1346 - acc: 0.950 - ETA: 5:09 - loss: 0.1343 - acc: 0.950 - ETA: 5:08 - loss: 0.1341 - acc: 0.950 - ETA: 5:07 - loss: 0.1344 - acc: 0.950 - ETA: 5:06 - loss: 0.1337 - acc: 0.950 - ETA: 5:05 - loss: 0.1333 - acc: 0.950 - ETA: 5:04 - loss: 0.1332 - acc: 0.950 - ETA: 5:03 - loss: 0.1327 - acc: 0.951 - ETA: 5:02 - loss: 0.1340 - acc: 0.950 - ETA: 5:01 - loss: 0.1337 - acc: 0.950 - ETA: 5:00 - loss: 0.1334 - acc: 0.950 - ETA: 4:59 - loss: 0.1333 - acc: 0.950 - ETA: 4:58 - loss: 0.1333 - acc: 0.950 - ETA: 4:57 - loss: 0.1333 - acc: 0.950 - ETA: 4:56 - loss: 0.1329 - acc: 0.951 - ETA: 4:55 - loss: 0.1330 - acc: 0.951 - ETA: 4:54 - loss: 0.1336 - acc: 0.950 - ETA: 4:53 - loss: 0.1340 - acc: 0.950 - ETA: 4:52 - loss: 0.1349 - acc: 0.949 - ETA: 4:51 - loss: 0.1373 - acc: 0.949 - ETA: 4:50 - loss: 0.1374 - acc: 0.949 - ETA: 4:49 - loss: 0.1372 - acc: 0.949 - ETA: 4:48 - loss: 0.1373 - acc: 0.949 - ETA: 4:48 - loss: 0.1382 - acc: 0.948 - ETA: 4:47 - loss: 0.1378 - acc: 0.949 - ETA: 4:46 - loss: 0.1379 - acc: 0.949 - ETA: 4:45 - loss: 0.1378 - acc: 0.949 - ETA: 4:44 - loss: 0.1373 - acc: 0.949 - ETA: 4:43 - loss: 0.1377 - acc: 0.949 - ETA: 4:42 - loss: 0.1384 - acc: 0.948 - ETA: 4:41 - loss: 0.1387 - acc: 0.948 - ETA: 4:40 - loss: 0.1382 - acc: 0.948 - ETA: 4:39 - loss: 0.1377 - acc: 0.948 - ETA: 4:38 - loss: 0.1378 - acc: 0.948 - ETA: 4:37 - loss: 0.1386 - acc: 0.948 - ETA: 4:36 - loss:

0.1394 - acc: 0.948 - ETA: 4:35 - loss: 0.1400 - acc: 0.948 - ETA: 4:34
- loss: 0.1397 - acc: 0.948 - ETA: 4:33 - loss: 0.1393 - acc: 0.948 - E
TA: 4:32 - loss: 0.1393 - acc: 0.948 - ETA: 4:31 - loss: 0.1389 - acc:
0.948 - ETA: 4:30 - loss: 0.1392 - acc: 0.948 - ETA: 4:29 - loss: 0.139
2 - acc: 0.948 - ETA: 4:28 - loss: 0.1389 - acc: 0.948 - ETA: 4:27 - lo
ss: 0.1388 - acc: 0.948 - ETA: 4:26 - loss: 0.1381 - acc: 0.948 - ETA:
4:25 - loss: 0.1375 - acc: 0.949 - ETA: 4:24 - loss: 0.1377 - acc: 0.94
9 - ETA: 4:23 - loss: 0.1377 - acc: 0.949 - ETA: 4:22 - loss: 0.1383 -
acc: 0.948 - ETA: 4:21 - loss: 0.1389 - acc: 0.948 - ETA: 4:20 - loss:
0.1388 - acc: 0.948 - ETA: 4:19 - loss: 0.1393 - acc: 0.948 - ETA: 4:18
- loss: 0.1392 - acc: 0.948 - ETA: 4:17 - loss: 0.1394 - acc: 0.948 - E
TA: 4:16 - loss: 0.1395 - acc: 0.948 - ETA: 4:15 - loss: 0.1405 - acc:
0.947 - ETA: 4:14 - loss: 0.1401 - acc: 0.948 - ETA: 4:13 - loss: 0.139
8 - acc: 0.948 - ETA: 4:12 - loss: 0.1400 - acc: 0.948 - ETA: 4:11 - lo
ss: 0.1398 - acc: 0.948 - ETA: 4:10 - loss: 0.1397 - acc: 0.948 - ETA:
4:09 - loss: 0.1399 - acc: 0.948 - ETA: 4:08 - loss: 0.1397 - acc: 0.94
8 - ETA: 4:07 - loss: 0.1399 - acc: 0.948 - ETA: 4:06 - loss: 0.1396 -
acc: 0.948 - ETA: 4:05 - loss: 0.1395 - acc: 0.948 - ETA: 4:04 - loss:
0.1395 - acc: 0.948 - ETA: 4:03 - loss: 0.1393 - acc: 0.948 - ETA: 4:02
- loss: 0.1392 - acc: 0.948 - ETA: 4:01 - loss: 0.1395 - acc: 0.948 - E
TA: 4:00 - loss: 0.1400 - acc: 0.948 - ETA: 3:59 - loss: 0.1396 - acc:
0.948 - ETA: 3:58 - loss: 0.1392 - acc: 0.948 - ETA: 3:57 - loss: 0.139
3 - acc: 0.948 - ETA: 3:56 - loss: 0.1395 - acc: 0.948 - ETA: 3:55 - lo
ss: 0.1390 - acc: 0.948 - ETA: 3:54 - loss: 0.1390 - acc: 0.948 - ETA:
3:53 - loss: 0.1389 - acc: 0.948 - ETA: 3:52 - loss: 0.1384 - acc: 0.94
8 - ETA: 3:51 - loss: 0.1382 - acc: 0.948 - ETA: 3:50 - loss: 0.1381 -
acc: 0.948 - ETA: 3:49 - loss: 0.1377 - acc: 0.948 - ETA: 3:48 - loss:
0.1379 - acc: 0.948 - ETA: 3:47 - loss: 0.1379 - acc: 0.948 - ETA: 3:46
- loss: 0.1384 - acc: 0.948 - ETA: 3:45 - loss: 0.1383 - acc: 0.948 - E
TA: 3:44 - loss: 0.1385 - acc: 0.948 - ETA: 3:43 - loss: 0.1390 - acc:
0.948 - ETA: 3:42 - loss: 0.1394 - acc: 0.948 - ETA: 3:41 - loss: 0.139
3 - acc: 0.948 - ETA: 3:40 - loss: 0.1392 - acc: 0.948 - ETA: 3:40 - lo
ss: 0.1390 - acc: 0.948 - ETA: 3:39 - loss: 0.1393 - acc: 0.948 - ETA:
3:38 - loss: 0.1394 - acc: 0.948 - ETA: 3:37 - loss: 0.1400 - acc: 0.94
7 - ETA: 3:36 - loss: 0.1404 - acc: 0.947 - ETA: 3:35 - loss: 0.1408 -
acc: 0.947 - ETA: 3:34 - loss: 0.1405 - acc: 0.947 - ETA: 3:33 - loss:
0.1412 - acc: 0.947 - ETA: 3:32 - loss: 0.1416 - acc: 0.947 - ETA: 3:31
- loss: 0.1419 - acc: 0.947126304/26800 [=====]
>.] - ETA: 3:30 - loss: 0.1415 - acc: 0.947 - ETA: 3:29 - loss: 0.1416

- acc: 0.947 - ETA: 3:28 - loss: 0.1415 - acc: 0.947 - ETA: 3:27 - loss: 0.1418 - acc: 0.947 - ETA: 3:26 - loss: 0.1421 - acc: 0.947 - ETA: 3:25 - loss: 0.1419 - acc: 0.947 - ETA: 3:24 - loss: 0.1420 - acc: 0.947 - ETA: 3:23 - loss: 0.1417 - acc: 0.947 - ETA: 3:22 - loss: 0.1416 - acc: 0.947 - ETA: 3:21 - loss: 0.1417 - acc: 0.947 - ETA: 3:20 - loss: 0.1416 - acc: 0.947 - ETA: 3:19 - loss: 0.1416 - acc: 0.947 - ETA: 3:18 - loss: 0.1416 - acc: 0.947 - ETA: 3:17 - loss: 0.1412 - acc: 0.947 - ETA: 3:16 - loss: 0.1410 - acc: 0.947 - ETA: 3:15 - loss: 0.1410 - acc: 0.947 - ETA: 3:14 - loss: 0.1414 - acc: 0.947 - ETA: 3:13 - loss: 0.1417 - acc: 0.947 - ETA: 3:12 - loss: 0.1419 - acc: 0.947 - ETA: 3:11 - loss: 0.1419 - acc: 0.946 - ETA: 3:10 - loss: 0.1420 - acc: 0.946 - ETA: 3:09 - loss: 0.1424 - acc: 0.946 - ETA: 3:08 - loss: 0.1432 - acc: 0.946 - ETA: 3:07 - loss: 0.1430 - acc: 0.946 - ETA: 3:06 - loss: 0.1428 - acc: 0.946 - ETA: 3:05 - loss: 0.1426 - acc: 0.946 - ETA: 3:04 - loss: 0.1424 - acc: 0.946 - ETA: 3:03 - loss: 0.1421 - acc: 0.947 - ETA: 3:02 - loss: 0.1421 - acc: 0.947 - ETA: 3:01 - loss: 0.1423 - acc: 0.947 - ETA: 3:00 - loss: 0.1420 - acc: 0.947 - ETA: 2:59 - loss: 0.1418 - acc: 0.947 - ETA: 2:58 - loss: 0.1421 - acc: 0.947 - ETA: 2:57 - loss: 0.1419 - acc: 0.947 - ETA: 2:56 - loss: 0.1417 - acc: 0.947 - ETA: 2:56 - loss: 0.1419 - acc: 0.947 - ETA: 2:55 - loss: 0.1420 - acc: 0.947 - ETA: 2:54 - loss: 0.1423 - acc: 0.947 - ETA: 2:53 - loss: 0.1422 - acc: 0.947 - ETA: 2:52 - loss: 0.1422 - acc: 0.947 - ETA: 2:51 - loss: 0.1426 - acc: 0.947 - ETA: 2:50 - loss: 0.1431 - acc: 0.946 - ETA: 2:49 - loss: 0.1427 - acc: 0.946 - ETA: 2:48 - loss: 0.1431 - acc: 0.946 - ETA: 2:47 - loss: 0.1430 - acc: 0.946 - ETA: 2:46 - loss: 0.1432 - acc: 0.946 - ETA: 2:45 - loss: 0.1432 - acc: 0.946 - ETA: 2:44 - loss: 0.1433 - acc: 0.946 - ETA: 2:43 - loss: 0.1434 - acc: 0.946 - ETA: 2:42 - loss: 0.1433 - acc: 0.946 - ETA: 2:41 - loss: 0.1431 - acc: 0.946 - ETA: 2:40 - loss: 0.1429 - acc: 0.946 - ETA: 2:39 - loss: 0.1429 - acc: 0.946 - ETA: 2:38 - loss: 0.1427 - acc: 0.946 - ETA: 2:37 - loss: 0.1426 - acc: 0.946 - ETA: 2:36 - loss: 0.1432 - acc: 0.946 - ETA: 2:35 - loss: 0.1429 - acc: 0.946 - ETA: 2:34 - loss: 0.1438 - acc: 0.946 - ETA: 2:33 - loss: 0.1438 - acc: 0.946 - ETA: 2:32 - loss: 0.1443 - acc: 0.946 - ETA: 2:31 - loss: 0.1444 - acc: 0.946 - ETA: 2:30 - loss: 0.1443 - acc: 0.946 - ETA: 2:29 - loss: 0.1443 - acc: 0.946 - ETA: 2:28 - loss: 0.1442 - acc: 0.946 - ETA: 2:27 - loss: 0.1443 - acc: 0.946 - ETA: 2:26 - loss: 0.1443 - acc: 0.946 - ETA: 2:25 - loss: 0.1444 - acc: 0.946 - ETA: 2:24 - loss: 0.1443 - acc: 0.946 - ETA: 2:23 - loss: 0.1443 - acc: 0.946 - ETA: 2:22 - loss: 0.1442 - acc: 0.946 - ETA: 2:21 - loss: 0.1444 - acc: 0.94

6 - ETA: 2:20 - loss: 0.1444 - acc: 0.946 - ETA: 2:19 - loss: 0.1450 - acc: 0.946 - ETA: 2:18 - loss: 0.1452 - acc: 0.946 - ETA: 2:17 - loss: 0.1452 - acc: 0.946 - ETA: 2:16 - loss: 0.1453 - acc: 0.946 - ETA: 2:15 - loss: 0.1452 - acc: 0.946 - ETA: 2:14 - loss: 0.1453 - acc: 0.946 - ETA: 2:13 - loss: 0.1460 - acc: 0.945 - ETA: 2:12 - loss: 0.1461 - acc: 0.945 - ETA: 2:11 - loss: 0.1460 - acc: 0.945 - ETA: 2:10 - loss: 0.1460 - acc: 0.945 - ETA: 2:09 - loss: 0.1461 - acc: 0.946 - ETA: 2:08 - loss: 0.1460 - acc: 0.946 - ETA: 2:07 - loss: 0.1459 - acc: 0.946 - ETA: 2:06 - loss: 0.1461 - acc: 0.946 - ETA: 2:05 - loss: 0.1463 - acc: 0.946 - ETA: 2:04 - loss: 0.1462 - acc: 0.946 - ETA: 2:03 - loss: 0.1464 - acc: 0.946 - ETA: 2:03 - loss: 0.1464 - acc: 0.946 - ETA: 2:02 - loss: 0.1464 - acc: 0.946 - ETA: 2:01 - loss: 0.1464 - acc: 0.946 - ETA: 2:00 - loss: 0.1468 - acc: 0.945 - ETA: 1:59 - loss: 0.1471 - acc: 0.945 - ETA: 1:58 - loss: 0.1469 - acc: 0.945 - ETA: 1:57 - loss: 0.1467 - acc: 0.945 - ETA: 1:56 - loss: 0.1469 - acc: 0.945 - ETA: 1:55 - loss: 0.1475 - acc: 0.945 - ETA: 1:54 - loss: 0.1477 - acc: 0.945 - ETA: 1:53 - loss: 0.1478 - acc: 0.945 - ETA: 1:52 - loss: 0.1477 - acc: 0.945 - ETA: 1:51 - loss: 0.1475 - acc: 0.945 - ETA: 1:50 - loss: 0.1478 - acc: 0.945 - ETA: 1:49 - loss: 0.1483 - acc: 0.945 - ETA: 1:48 - loss: 0.1482 - acc: 0.945 - ETA: 1:47 - loss: 0.1485 - acc: 0.945 - ETA: 1:46 - loss: 0.1485 - acc: 0.945 - ETA: 1:45 - loss: 0.1484 - acc: 0.945 - ETA: 1:44 - loss: 0.1486 - acc: 0.945 - ETA: 1:43 - loss: 0.1487 - acc: 0.945 - ETA: 1:42 - loss: 0.1487 - acc: 0.945 - ETA: 1:41 - loss: 0.1488 - acc: 0.945 - ETA: 1:40 - loss: 0.1487 - acc: 0.945 - ETA: 1:39 - loss: 0.1488 - acc: 0.944 - ETA: 1:38 - loss: 0.1487 - acc: 0.944 - ETA: 1:37 - loss: 0.1487 - acc: 0.944 - ETA: 1:36 - loss: 0.1488 - acc: 0.944 - ETA: 1:35 - loss: 0.1491 - acc: 0.944 - ETA: 1:34 - loss: 0.1491 - acc: 0.944 - ETA: 1:33 - loss: 0.1493 - acc: 0.944 - ETA: 1:32 - loss: 0.1494 - acc: 0.944 - ETA: 1:31 - loss: 0.1492 - acc: 0.944 - ETA: 1:30 - loss: 0.1493 - acc: 0.944 - ETA: 1:29 - loss: 0.1493 - acc: 0.944 - ETA: 1:28 - loss: 0.1493 - acc: 0.944 - ETA: 1:27 - loss: 0.1491 - acc: 0.944 - ETA: 1:26 - loss: 0.1490 - acc: 0.945 - ETA: 1:25 - loss: 0.1489 - acc: 0.945 - ETA: 1:24 - loss: 0.1492 - acc: 0.945 - ETA: 1:23 - loss: 0.1495 - acc: 0.945 - ETA: 1:22 - loss: 0.1496 - acc: 0.945 - ETA: 1:21 - loss: 0.1498 - acc: 0.944 - ETA: 1:20 - loss: 0.1499 - acc: 0.944 - ETA: 1:19 - loss: 0.1498 - acc: 0.944 - ETA: 1:18 - loss: 0.1501 - acc: 0.944 - ETA: 1:17 - loss: 0.1499 - acc: 0.944 - ETA: 1:16 - loss: 0.1496 - acc: 0.945 - ETA: 1:15 - loss: 0.1495 - acc: 0.945 - ETA: 1:14 - loss: 0.1495 - acc: 0.945 - ETA: 1:13 - loss: 0.1497 - acc: 0.944 - ETA: 1:12

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s: 0.1542 - acc: 0.943 - ETA: 1s - loss: 0.1541 - acc: 0.943 - ETA: 0s
- loss: 0.1542 - acc: 0.943 - 468s 17ms/step - loss: 0.1541 - acc: 0.94
33 - val_loss: 0.2210 - val_acc: 0.9135
Epoch 4/5
13056/26800 [=====>.....] - ETA: 6:48 - loss: 0.1233
- acc: 0.953 - ETA: 6:46 - loss: 0.1260 - acc: 0.968 - ETA: 6:45 - los
s: 0.1006 - acc: 0.979 - ETA: 6:44 - loss: 0.0942 - acc: 0.980 - ETA:
6:43 - loss: 0.1086 - acc: 0.971 - ETA: 6:42 - loss: 0.1062 - acc: 0.97
1 - ETA: 6:43 - loss: 0.1047 - acc: 0.971 - ETA: 6:46 - loss: 0.1057 -
acc: 0.970 - ETA: 6:45 - loss: 0.1273 - acc: 0.963 - ETA: 6:43 - loss:
0.1371 - acc: 0.960 - ETA: 6:42 - loss: 0.1462 - acc: 0.956 - ETA: 6:41
- loss: 0.1497 - acc: 0.951 - ETA: 6:39 - loss: 0.1476 - acc: 0.953 - E
TA: 6:38 - loss: 0.1442 - acc: 0.955 - ETA: 6:36 - loss: 0.1433 - acc:
0.956 - ETA: 6:35 - loss: 0.1412 - acc: 0.957 - ETA: 6:34 - loss: 0.139
5 - acc: 0.956 - ETA: 6:33 - loss: 0.1397 - acc: 0.955 - ETA: 6:32 - lo
ss: 0.1398 - acc: 0.955 - ETA: 6:31 - loss: 0.1388 - acc: 0.955 - ETA:
6:29 - loss: 0.1379 - acc: 0.956 - ETA: 6:28 - loss: 0.1375 - acc: 0.95
7 - ETA: 6:27 - loss: 0.1371 - acc: 0.956 - ETA: 6:26 - loss: 0.1369 -
acc: 0.955 - ETA: 6:25 - loss: 0.1334 - acc: 0.957 - ETA: 6:24 - loss:
0.1340 - acc: 0.956 - ETA: 6:23 - loss: 0.1349 - acc: 0.956 - ETA: 6:22
- loss: 0.1343 - acc: 0.956 - ETA: 6:21 - loss: 0.1359 - acc: 0.955 - E
TA: 6:20 - loss: 0.1346 - acc: 0.955 - ETA: 6:19 - loss: 0.1320 - acc:
0.956 - ETA: 6:18 - loss: 0.1302 - acc: 0.957 - ETA: 6:17 - loss: 0.132
5 - acc: 0.956 - ETA: 6:16 - loss: 0.1335 - acc: 0.955 - ETA: 6:15 - lo
ss: 0.1361 - acc: 0.955 - ETA: 6:14 - loss: 0.1337 - acc: 0.956 - ETA:
6:13 - loss: 0.1319 - acc: 0.957 - ETA: 6:12 - loss: 0.1314 - acc: 0.95
6 - ETA: 6:11 - loss: 0.1294 - acc: 0.957 - ETA: 6:10 - loss: 0.1291 -
acc: 0.957 - ETA: 6:09 - loss: 0.1300 - acc: 0.958 - ETA: 6:08 - loss:
0.1291 - acc: 0.958 - ETA: 6:07 - loss: 0.1278 - acc: 0.958 - ETA: 6:06
- loss: 0.1282 - acc: 0.958 - ETA: 6:05 - loss: 0.1285 - acc: 0.957 - E
TA: 6:04 - loss: 0.1291 - acc: 0.957 - ETA: 6:03 - loss: 0.1295 - acc:
0.957 - ETA: 6:02 - loss: 0.1299 - acc: 0.956 - ETA: 6:01 - loss: 0.132
0 - acc: 0.955 - ETA: 6:00 - loss: 0.1310 - acc: 0.955 - ETA: 5:59 - lo
ss: 0.1297 - acc: 0.956 - ETA: 5:58 - loss: 0.1324 - acc: 0.955 - ETA:
5:57 - loss: 0.1320 - acc: 0.956 - ETA: 5:57 - loss: 0.1302 - acc: 0.95
6 - ETA: 5:56 - loss: 0.1298 - acc: 0.956 - ETA: 5:55 - loss: 0.1287 -
acc: 0.957 - ETA: 5:54 - loss: 0.1269 - acc: 0.958 - ETA: 5:54 - loss:
0.1271 - acc: 0.957 - ETA: 5:53 - loss: 0.1264 - acc: 0.957 - ETA: 5:52
- loss: 0.1262 - acc: 0.957 - ETA: 5:51 - loss: 0.1278 - acc: 0.957 - E

TA: 5:50 - loss: 0.1269 - acc: 0.957 - ETA: 5:50 - loss: 0.1265 - acc:
0.957 - ETA: 5:49 - loss: 0.1264 - acc: 0.957 - ETA: 5:48 - loss: 0.125
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ss: 0.1242 - acc: 0.958 - ETA: 5:46 - loss: 0.1245 - acc: 0.958 - ETA:
5:45 - loss: 0.1248 - acc: 0.958 - ETA: 5:44 - loss: 0.1249 - acc: 0.95
8 - ETA: 5:43 - loss: 0.1250 - acc: 0.957 - ETA: 5:42 - loss: 0.1248 -
acc: 0.957 - ETA: 5:41 - loss: 0.1240 - acc: 0.957 - ETA: 5:40 - loss:
0.1252 - acc: 0.957 - ETA: 5:39 - loss: 0.1245 - acc: 0.957 - ETA: 5:38
- loss: 0.1235 - acc: 0.958 - ETA: 5:37 - loss: 0.1238 - acc: 0.958 - E
TA: 5:36 - loss: 0.1228 - acc: 0.958 - ETA: 5:35 - loss: 0.1222 - acc:
0.958 - ETA: 5:34 - loss: 0.1222 - acc: 0.958 - ETA: 5:32 - loss: 0.122
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ss: 0.1221 - acc: 0.958 - ETA: 5:29 - loss: 0.1223 - acc: 0.958 - ETA:
5:28 - loss: 0.1223 - acc: 0.957 - ETA: 5:27 - loss: 0.1222 - acc: 0.95
8 - ETA: 5:26 - loss: 0.1221 - acc: 0.958 - ETA: 5:25 - loss: 0.1223 -
acc: 0.958 - ETA: 5:24 - loss: 0.1232 - acc: 0.957 - ETA: 5:23 - loss:
0.1234 - acc: 0.957 - ETA: 5:22 - loss: 0.1235 - acc: 0.957 - ETA: 5:21
- loss: 0.1237 - acc: 0.956 - ETA: 5:20 - loss: 0.1236 - acc: 0.957 - E
TA: 5:19 - loss: 0.1238 - acc: 0.956 - ETA: 5:18 - loss: 0.1242 - acc:
0.956 - ETA: 5:17 - loss: 0.1235 - acc: 0.957 - ETA: 5:16 - loss: 0.123
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ss: 0.1238 - acc: 0.957 - ETA: 5:14 - loss: 0.1249 - acc: 0.956 - ETA:
5:13 - loss: 0.1244 - acc: 0.957 - ETA: 5:12 - loss: 0.1242 - acc: 0.95
7 - ETA: 5:11 - loss: 0.1236 - acc: 0.957 - ETA: 5:10 - loss: 0.1227 -
acc: 0.957 - ETA: 5:09 - loss: 0.1220 - acc: 0.958 - ETA: 5:08 - loss:
0.1219 - acc: 0.958 - ETA: 5:07 - loss: 0.1217 - acc: 0.958 - ETA: 5:06
- loss: 0.1226 - acc: 0.957 - ETA: 5:05 - loss: 0.1228 - acc: 0.957 - E
TA: 5:03 - loss: 0.1230 - acc: 0.957 - ETA: 5:02 - loss: 0.1230 - acc:
0.957 - ETA: 5:01 - loss: 0.1226 - acc: 0.958 - ETA: 5:00 - loss: 0.122
9 - acc: 0.958 - ETA: 4:59 - loss: 0.1224 - acc: 0.958 - ETA: 4:58 - lo
ss: 0.1224 - acc: 0.957 - ETA: 4:57 - loss: 0.1221 - acc: 0.958 - ETA:
4:56 - loss: 0.1226 - acc: 0.957 - ETA: 4:55 - loss: 0.1231 - acc: 0.95
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acc: 0.958 - ETA: 4:52 - loss: 0.1235 - acc: 0.957 - ETA: 4:51 - loss:
0.1239 - acc: 0.957 - ETA: 4:50 - loss: 0.1246 - acc: 0.957 - ETA: 4:49
- loss: 0.1246 - acc: 0.957 - ETA: 4:48 - loss: 0.1251 - acc: 0.957 - E
TA: 4:47 - loss: 0.1257 - acc: 0.957 - ETA: 4:46 - loss: 0.1257 - acc:
0.957 - ETA: 4:45 - loss: 0.1256 - acc: 0.957 - ETA: 4:44 - loss: 0.126
6 - acc: 0.956 - ETA: 4:43 - loss: 0.1267 - acc: 0.956 - ETA: 4:42 - lo

ss: 0.1272 - acc: 0.956 - ETA: 4:41 - loss: 0.1278 - acc: 0.956 - ETA: 4:40 - loss: 0.1272 - acc: 0.956 - ETA: 4:39 - loss: 0.1277 - acc: 0.956 - ETA: 4:38 - loss: 0.1274 - acc: 0.956 - ETA: 4:37 - loss: 0.1272 - acc: 0.956 - ETA: 4:36 - loss: 0.1269 - acc: 0.956 - ETA: 4:35 - loss: 0.1274 - acc: 0.956 - ETA: 4:34 - loss: 0.1272 - acc: 0.955 - ETA: 4:33 - loss: 0.1270 - acc: 0.956 - ETA: 4:32 - loss: 0.1276 - acc: 0.955 - ETA: 4:31 - loss: 0.1279 - acc: 0.955 - ETA: 4:31 - loss: 0.1278 - acc: 0.955 - ETA: 4:30 - loss: 0.1286 - acc: 0.955 - ETA: 4:29 - loss: 0.1286 - acc: 0.955 - ETA: 4:28 - loss: 0.1284 - acc: 0.954 - ETA: 4:27 - loss: 0.1289 - acc: 0.954 - ETA: 4:26 - loss: 0.1291 - acc: 0.954 - ETA: 4:25 - loss: 0.1292 - acc: 0.954 - ETA: 4:24 - loss: 0.1294 - acc: 0.954 - ETA: 4:23 - loss: 0.1290 - acc: 0.954 - ETA: 4:22 - loss: 0.1289 - acc: 0.954 - ETA: 4:21 - loss: 0.1285 - acc: 0.954 - ETA: 4:20 - loss: 0.1288 - acc: 0.954 - ETA: 4:19 - loss: 0.1285 - acc: 0.954 - ETA: 4:18 - loss: 0.1291 - acc: 0.954 - ETA: 4:17 - loss: 0.1290 - acc: 0.954 - ETA: 4:16 - loss: 0.1291 - acc: 0.954 - ETA: 4:15 - loss: 0.1286 - acc: 0.954 - ETA: 4:14 - loss: 0.1283 - acc: 0.954 - ETA: 4:13 - loss: 0.1281 - acc: 0.954 - ETA: 4:12 - loss: 0.1275 - acc: 0.954 - ETA: 4:11 - loss: 0.1277 - acc: 0.954 - ETA: 4:10 - loss: 0.1279 - acc: 0.954 - ETA: 4:09 - loss: 0.1279 - acc: 0.954 - ETA: 4:08 - loss: 0.1283 - acc: 0.954 - ETA: 4:07 - loss: 0.1278 - acc: 0.954 - ETA: 4:06 - loss: 0.1281 - acc: 0.954 - ETA: 4:05 - loss: 0.1286 - acc: 0.954 - ETA: 4:04 - loss: 0.1289 - acc: 0.954 - ETA: 4:03 - loss: 0.1288 - acc: 0.954 - ETA: 4:02 - loss: 0.1286 - acc: 0.954 - ETA: 4:01 - loss: 0.1291 - acc: 0.954 - ETA: 4:00 - loss: 0.1289 - acc: 0.954 - ETA: 3:59 - loss: 0.1289 - acc: 0.954 - ETA: 3:58 - loss: 0.1285 - acc: 0.954 - ETA: 3:57 - loss: 0.1285 - acc: 0.954 - ETA: 3:56 - loss: 0.1287 - acc: 0.954 - ETA: 3:55 - loss: 0.1285 - acc: 0.954 - ETA: 3:54 - loss: 0.1285 - acc: 0.954 - ETA: 3:53 - loss: 0.1284 - acc: 0.954 - ETA: 3:52 - loss: 0.1284 - acc: 0.954 - ETA: 3:51 - loss: 0.1282 - acc: 0.955 - ETA: 3:50 - loss: 0.1289 - acc: 0.954 - ETA: 3:49 - loss: 0.1285 - acc: 0.955 - ETA: 3:48 - loss: 0.1282 - acc: 0.955 - ETA: 3:47 - loss: 0.1280 - acc: 0.955 - ETA: 3:46 - loss: 0.1277 - acc: 0.955 - ETA: 3:45 - loss: 0.1275 - acc: 0.955 - ETA: 3:44 - loss: 0.1273 - acc: 0.955 - ETA: 3:43 - loss: 0.1272 - acc: 0.955 - ETA: 3:42 - loss: 0.1269 - acc: 0.955 - ETA: 3:41 - loss: 0.1272 - acc: 0.955 - ETA: 3:41 - loss: 0.1282 - acc: 0.955 - ETA: 3:40 - loss: 0.1281 - acc: 0.955 - ETA: 3:39 - loss: 0.1280 - acc: 0.955 - ETA: 3:38 - loss: 0.1278 - acc: 0.954 - ETA: 3:37 - loss: 0.1280 - acc: 0.954 - ETA: 3:36 - loss: 0.1288 - acc: 0.954 - ETA: 3:35 - loss: 0.1290 -

acc: 0.954 - ETA: 3:34 - loss: 0.1292 - acc: 0.954 - ETA: 3:33 - loss:
0.1288 - acc: 0.954 - ETA: 3:32 - loss: 0.1287 - acc: 0.954 - ETA: 3:3
1 - loss: 0.1291 - acc: 0.954126304/26800 [=====]
>.] - ETA: 3:30 - loss: 0.1297 - acc: 0.954 - ETA: 3:29 - loss: 0.1294
- acc: 0.954 - ETA: 3:28 - loss: 0.1293 - acc: 0.954 - ETA: 3:27 - los
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3:25 - loss: 0.1286 - acc: 0.954 - ETA: 3:24 - loss: 0.1288 - acc: 0.9
54 - ETA: 3:23 - loss: 0.1292 - acc: 0.954 - ETA: 3:22 - loss: 0.1290 -
acc: 0.954 - ETA: 3:21 - loss: 0.1289 - acc: 0.954 - ETA: 3:20 - loss:
0.1289 - acc: 0.954 - ETA: 3:19 - loss: 0.1288 - acc: 0.954 - ETA: 3:1
8 - loss: 0.1289 - acc: 0.954 - ETA: 3:17 - loss: 0.1290 - acc: 0.954 -
ETA: 3:16 - loss: 0.1290 - acc: 0.954 - ETA: 3:15 - loss: 0.1290 - ac
c: 0.954 - ETA: 3:14 - loss: 0.1289 - acc: 0.954 - ETA: 3:13 - loss: 0.
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loss: 0.1287 - acc: 0.954 - ETA: 3:10 - loss: 0.1285 - acc: 0.954 - ET
A: 3:09 - loss: 0.1284 - acc: 0.954 - ETA: 3:08 - loss: 0.1281 - acc:
0.954 - ETA: 3:07 - loss: 0.1291 - acc: 0.953 - ETA: 3:06 - loss: 0.12
90 - acc: 0.953 - ETA: 3:05 - loss: 0.1287 - acc: 0.953 - ETA: 3:04 - l
oss: 0.1286 - acc: 0.953 - ETA: 3:03 - loss: 0.1289 - acc: 0.953 - ETA:
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ETA: 2:53 - loss: 0.1288 - acc: 0.953 - ETA: 2:52 - loss: 0.1293 - ac
c: 0.953 - ETA: 2:51 - loss: 0.1291 - acc: 0.953 - ETA: 2:50 - loss: 0.
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0.953 - ETA: 2:45 - loss: 0.1295 - acc: 0.953 - ETA: 2:44 - loss: 0.12
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acc: 0.953 - ETA: 2:36 - loss: 0.1300 - acc: 0.952 - ETA: 2:35 - loss:
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3 - loss: 0.1299 - acc: 0.952 - ETA: 2:32 - loss: 0.1299 - acc: 0.952 -
ETA: 2:31 - loss: 0.1301 - acc: 0.952 - ETA: 2:30 - loss: 0.1301 - ac
c: 0.952 - ETA: 2:29 - loss: 0.1303 - acc: 0.952 - ETA: 2:28 - loss: 0.

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loss: 0.1298 - acc: 0.952 - ETA: 2:25 - loss: 0.1297 - acc: 0.952 - ET
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0.952 - ETA: 2:22 - loss: 0.1299 - acc: 0.952 - ETA: 2:21 - loss: 0.13
01 - acc: 0.952 - ETA: 2:20 - loss: 0.1304 - acc: 0.952 - ETA: 2:19 - l
oss: 0.1304 - acc: 0.952 - ETA: 2:18 - loss: 0.1306 - acc: 0.952 - ETA:
2:17 - loss: 0.1308 - acc: 0.952 - ETA: 2:16 - loss: 0.1311 - acc: 0.9
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acc: 0.952 - ETA: 2:13 - loss: 0.1315 - acc: 0.952 - ETA: 2:12 - loss:
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0 - loss: 0.1312 - acc: 0.952 - ETA: 2:09 - loss: 0.1312 - acc: 0.952 -
ETA: 2:08 - loss: 0.1313 - acc: 0.951 - ETA: 2:07 - loss: 0.1311 - ac
c: 0.952 - ETA: 2:06 - loss: 0.1312 - acc: 0.952 - ETA: 2:05 - loss: 0.
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A: 2:01 - loss: 0.1315 - acc: 0.952 - ETA: 2:00 - loss: 0.1313 - acc:
0.952 - ETA: 1:59 - loss: 0.1313 - acc: 0.952 - ETA: 1:58 - loss: 0.13
17 - acc: 0.952 - ETA: 1:57 - loss: 0.1318 - acc: 0.951 - ETA: 1:56 - l
oss: 0.1315 - acc: 0.952 - ETA: 1:55 - loss: 0.1314 - acc: 0.952 - ETA:
1:54 - loss: 0.1314 - acc: 0.952 - ETA: 1:53 - loss: 0.1313 - acc: 0.9
52 - ETA: 1:52 - loss: 0.1319 - acc: 0.951 - ETA: 1:51 - loss: 0.1323 -
acc: 0.951 - ETA: 1:50 - loss: 0.1320 - acc: 0.951 - ETA: 1:49 - loss:
0.1322 - acc: 0.951 - ETA: 1:48 - loss: 0.1321 - acc: 0.951 - ETA: 1:4
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ETA: 1:45 - loss: 0.1322 - acc: 0.951 - ETA: 1:44 - loss: 0.1320 - ac
c: 0.951 - ETA: 1:43 - loss: 0.1318 - acc: 0.951 - ETA: 1:42 - loss: 0.
1320 - acc: 0.951 - ETA: 1:41 - loss: 0.1320 - acc: 0.951 - ETA: 1:41 -
loss: 0.1322 - acc: 0.951 - ETA: 1:40 - loss: 0.1326 - acc: 0.951 - ET
A: 1:39 - loss: 0.1326 - acc: 0.951 - ETA: 1:38 - loss: 0.1328 - acc:
0.951 - ETA: 1:37 - loss: 0.1330 - acc: 0.951 - ETA: 1:36 - loss: 0.13
30 - acc: 0.951 - ETA: 1:35 - loss: 0.1330 - acc: 0.951 - ETA: 1:34 - l
oss: 0.1332 - acc: 0.951 - ETA: 1:33 - loss: 0.1329 - acc: 0.951 - ETA:
1:32 - loss: 0.1328 - acc: 0.951 - ETA: 1:31 - loss: 0.1328 - acc: 0.9
51 - ETA: 1:30 - loss: 0.1327 - acc: 0.951 - ETA: 1:29 - loss: 0.1327 -
acc: 0.951 - ETA: 1:28 - loss: 0.1326 - acc: 0.951 - ETA: 1:27 - loss:
0.1326 - acc: 0.951 - ETA: 1:26 - loss: 0.1323 - acc: 0.951 - ETA: 1:2
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ETA: 1:23 - loss: 0.1328 - acc: 0.951 - ETA: 1:22 - loss: 0.1327 - ac
c: 0.951 - ETA: 1:21 - loss: 0.1326 - acc: 0.951 - ETA: 1:20 - loss: 0.

1329 - acc: 0.951 - ETA: 1:19 - loss: 0.1328 - acc: 0.951 - ETA: 1:18 -
loss: 0.1326 - acc: 0.951 - ETA: 1:17 - loss: 0.1328 - acc: 0.951 - ET
A: 1:16 - loss: 0.1331 - acc: 0.951 - ETA: 1:15 - loss: 0.1332 - acc:
0.951 - ETA: 1:14 - loss: 0.1332 - acc: 0.951 - ETA: 1:13 - loss: 0.13
31 - acc: 0.951 - ETA: 1:12 - loss: 0.1333 - acc: 0.951 - ETA: 1:11 - l
oss: 0.1331 - acc: 0.951 - ETA: 1:10 - loss: 0.1333 - acc: 0.951 - ETA:
1:09 - loss: 0.1333 - acc: 0.951 - ETA: 1:08 - loss: 0.1340 - acc: 0.9
51 - ETA: 1:07 - loss: 0.1340 - acc: 0.951 - ETA: 1:06 - loss: 0.1339 -
acc: 0.951 - ETA: 1:05 - loss: 0.1341 - acc: 0.951 - ETA: 1:04 - loss:
0.1341 - acc: 0.951 - ETA: 1:03 - loss: 0.1339 - acc: 0.951 - ETA: 1:0
2 - loss: 0.1340 - acc: 0.951 - ETA: 1:01 - loss: 0.1341 - acc: 0.951 -
ETA: 1:00 - loss: 0.1343 - acc: 0.951 - ETA: 59s - loss: 0.1343 - acc:
0.951 - ETA: 58s - loss: 0.1342 - acc: 0.95 - ETA: 57s - loss: 0.1341
- acc: 0.95 - ETA: 56s - loss: 0.1340 - acc: 0.95 - ETA: 55s - loss:
0.1342 - acc: 0.95 - ETA: 54s - loss: 0.1340 - acc: 0.95 - ETA: 53s -
loss: 0.1341 - acc: 0.95 - ETA: 52s - loss: 0.1341 - acc: 0.95 - ETA:
51s - loss: 0.1342 - acc: 0.95 - ETA: 50s - loss: 0.1344 - acc: 0.95 -
ETA: 49s - loss: 0.1345 - acc: 0.95 - ETA: 48s - loss: 0.1344 - acc:
0.95 - ETA: 48s - loss: 0.1345 - acc: 0.95 - ETA: 47s - loss: 0.1346 -
acc: 0.95 - ETA: 46s - loss: 0.1348 - acc: 0.95 - ETA: 45s - loss: 0.1
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s: 0.1350 - acc: 0.95 - ETA: 42s - loss: 0.1351 - acc: 0.95 - ETA: 41s
- loss: 0.1350 - acc: 0.95 - ETA: 40s - loss: 0.1349 - acc: 0.95 - ET
A: 39s - loss: 0.1348 - acc: 0.95 - ETA: 38s - loss: 0.1348 - acc: 0.95
- ETA: 37s - loss: 0.1350 - acc: 0.95 - ETA: 36s - loss: 0.1354 - acc:
0.95 - ETA: 35s - loss: 0.1352 - acc: 0.95 - ETA: 34s - loss: 0.1352 -
acc: 0.95 - ETA: 33s - loss: 0.1351 - acc: 0.95 - ETA: 32s - loss: 0.1
351 - acc: 0.95 - ETA: 31s - loss: 0.1351 - acc: 0.95 - ETA: 30s - los
s: 0.1349 - acc: 0.95 - ETA: 29s - loss: 0.1347 - acc: 0.95 - ETA: 28s
- loss: 0.1345 - acc: 0.95 - ETA: 27s - loss: 0.1346 - acc: 0.95 - ET
A: 26s - loss: 0.1347 - acc: 0.95 - ETA: 25s - loss: 0.1346 - acc: 0.95
- ETA: 24s - loss: 0.1349 - acc: 0.95 - ETA: 23s - loss: 0.1349 - acc:
0.95 - ETA: 22s - loss: 0.1348 - acc: 0.95 - ETA: 21s - loss: 0.1348 -
acc: 0.95 - ETA: 20s - loss: 0.1346 - acc: 0.95 - ETA: 19s - loss: 0.1
347 - acc: 0.95 - ETA: 18s - loss: 0.1346 - acc: 0.95 - ETA: 17s - los
s: 0.1345 - acc: 0.95 - ETA: 16s - loss: 0.1345 - acc: 0.95 - ETA: 15s
- loss: 0.1343 - acc: 0.95 - ETA: 14s - loss: 0.1342 - acc: 0.95 - ET
A: 13s - loss: 0.1343 - acc: 0.95 - ETA: 12s - loss: 0.1341 - acc: 0.95
- ETA: 11s - loss: 0.1340 - acc: 0.95 - ETA: 10s - loss: 0.1339 - acc:

```
0.95 - ETA: 9s - loss: 0.1337 - acc: 0.9512 - ETA: 8s - loss: 0.1339 -  
acc: 0.951 - ETA: 7s - loss: 0.1338 - acc: 0.951226800/26800 [=====  
=====] - ETA: 6s - loss: 0.1341 - acc: 0.951 - ETA: 5s  
- loss: 0.1341 - acc: 0.951 - ETA: 4s - loss: 0.1344 - acc: 0.951 - ET  
A: 3s - loss: 0.1342 - acc: 0.951 - ETA: 2s - loss: 0.1340 - acc: 0.951  
- ETA: 1s - loss: 0.1338 - acc: 0.951 - ETA: 0s - loss: 0.1339 - acc:  
0.951 - 468s 17ms/step - loss: 0.1338 - acc: 0.9512 - val_loss: 0.2562  
- val_acc: 0.9139  
Epoch 5/5  
12352/26800 [=====>.....] - ETA: 7:09 - loss: 0.0505  
- acc: 0.968 - ETA: 7:06 - loss: 0.0525 - acc: 0.976 - ETA: 6:59 - los  
s: 0.0545 - acc: 0.974 - ETA: 7:04 - loss: 0.0782 - acc: 0.972 - ETA:  
7:01 - loss: 0.0958 - acc: 0.971 - ETA: 6:59 - loss: 0.0930 - acc: 0.9  
68 - ETA: 7:04 - loss: 0.0938 - acc: 0.966 - ETA: 47:40:04 - loss: 0.09  
06 - acc: 0.966 - ETA: 42:16:51 - loss: 0.0960 - acc: 0.965 - ETA: 37:5  
8:15 - loss: 0.0940 - acc: 0.965 - ETA: 34:26:40 - loss: 0.0881 - acc:  
0.968 - ETA: 31:30:21 - loss: 0.0947 - acc: 0.966 - ETA: 29:01:18 - lo  
ss: 0.0896 - acc: 0.968 - ETA: 26:53:31 - loss: 0.0962 - acc: 0.967 - E  
TA: 25:02:43 - loss: 0.0935 - acc: 0.968 - ETA: 23:25:43 - loss: 0.0907  
- acc: 0.970 - ETA: 22:00:08 - loss: 0.0937 - acc: 0.968 - ETA: 20:44:  
04 - loss: 0.0947 - acc: 0.967 - ETA: 19:36:00 - loss: 0.0921 - acc: 0.  
969 - ETA: 18:34:45 - loss: 0.0895 - acc: 0.971 - ETA: 17:39:21 - loss:  
0.0897 - acc: 0.971 - ETA: 16:48:57 - loss: 0.0919 - acc: 0.971 - ETA:  
16:02:57 - loss: 0.0908 - acc: 0.971 - ETA: 15:20:48 - loss: 0.0899 -  
acc: 0.971 - ETA: 14:42:00 - loss: 0.0880 - acc: 0.971 - ETA: 14:06:12  
- loss: 0.0936 - acc: 0.968 - ETA: 13:33:04 - loss: 0.0932 - acc: 0.96  
9 - ETA: 13:02:17 - loss: 0.0938 - acc: 0.968 - ETA: 12:33:41 - loss:  
0.0934 - acc: 0.968 - ETA: 12:06:58 - loss: 0.0965 - acc: 0.968 - ETA:  
11:42:01 - loss: 0.0944 - acc: 0.969 - ETA: 11:18:36 - loss: 0.0930 -  
acc: 0.969 - ETA: 10:56:35 - loss: 0.0913 - acc: 0.970 - ETA: 10:35:49  
- loss: 0.0921 - acc: 0.969 - ETA: 10:16:15 - loss: 0.0927 - acc: 0.96  
8 - ETA: 9:57:49 - loss: 0.0913 - acc: 0.969 - ETA: 9:40:28 - loss: 0.0  
906 - acc: 0.97 - ETA: 9:24:00 - loss: 0.0900 - acc: 0.97 - ETA: 9:08:2  
3 - loss: 0.0918 - acc: 0.97 - ETA: 8:53:28 - loss: 0.0911 - acc: 0.97  
- ETA: 8:39:17 - loss: 0.0905 - acc: 0.97 - ETA: 8:25:46 - loss: 0.089  
8 - acc: 0.97 - ETA: 8:12:51 - loss: 0.0907 - acc: 0.97 - ETA: 8:00:31  
- loss: 0.0910 - acc: 0.97 - ETA: 7:48:45 - loss: 0.0905 - acc: 0.97 -  
ETA: 7:37:30 - loss: 0.0901 - acc: 0.97 - ETA: 7:26:42 - loss: 0.0896  
- acc: 0.97 - ETA: 7:16:22 - loss: 0.0894 - acc: 0.97 - ETA: 7:06:28 -
```

loss: 0.0880 - acc: 0.97 - ETA: 6:56:56 - loss: 0.0866 - acc: 0.97 - E
TA: 6:47:47 - loss: 0.0858 - acc: 0.97 - ETA: 6:38:59 - loss: 0.0849 -
acc: 0.97 - ETA: 6:30:31 - loss: 0.0842 - acc: 0.97 - ETA: 6:22:21 - l
oss: 0.0841 - acc: 0.97 - ETA: 6:14:30 - loss: 0.0842 - acc: 0.97 - ET
A: 6:06:55 - loss: 0.0838 - acc: 0.97 - ETA: 5:59:36 - loss: 0.0843 - a
cc: 0.97 - ETA: 5:52:34 - loss: 0.0852 - acc: 0.97 - ETA: 5:45:46 - los
s: 0.0860 - acc: 0.97 - ETA: 5:39:09 - loss: 0.0858 - acc: 0.97 - ETA:
5:32:46 - loss: 0.0851 - acc: 0.97 - ETA: 5:26:36 - loss: 0.0845 - ac
c: 0.97 - ETA: 5:20:38 - loss: 0.0846 - acc: 0.97 - ETA: 5:14:52 - los
s: 0.0850 - acc: 0.97 - ETA: 5:09:16 - loss: 0.0850 - acc: 0.97 - ETA:
5:03:50 - loss: 0.0846 - acc: 0.97 - ETA: 4:58:34 - loss: 0.0839 - ac
c: 0.97 - ETA: 4:53:25 - loss: 0.0848 - acc: 0.97 - ETA: 4:48:26 - los
s: 0.0852 - acc: 0.97 - ETA: 4:43:35 - loss: 0.0848 - acc: 0.97 - ETA:
4:38:52 - loss: 0.0853 - acc: 0.97 - ETA: 4:34:18 - loss: 0.0858 - ac
c: 0.97 - ETA: 4:29:50 - loss: 0.0857 - acc: 0.97 - ETA: 4:25:30 - los
s: 0.0866 - acc: 0.96 - ETA: 4:21:17 - loss: 0.0864 - acc: 0.96 - ETA:
4:17:11 - loss: 0.0880 - acc: 0.96 - ETA: 4:13:11 - loss: 0.0875 - ac
c: 0.96 - ETA: 4:09:17 - loss: 0.0869 - acc: 0.97 - ETA: 4:05:29 - los
s: 0.0875 - acc: 0.96 - ETA: 4:01:46 - loss: 0.0873 - acc: 0.96 - ETA:
3:58:09 - loss: 0.0872 - acc: 0.96 - ETA: 3:54:37 - loss: 0.0867 - ac
c: 0.96 - ETA: 3:51:10 - loss: 0.0861 - acc: 0.96 - ETA: 3:47:48 - los
s: 0.0874 - acc: 0.96 - ETA: 3:44:31 - loss: 0.0888 - acc: 0.96 - ETA:
3:41:19 - loss: 0.0914 - acc: 0.96 - ETA: 3:38:10 - loss: 0.0920 - ac
c: 0.96 - ETA: 3:35:06 - loss: 0.0920 - acc: 0.96 - ETA: 3:32:07 - los
s: 0.0916 - acc: 0.96 - ETA: 3:29:11 - loss: 0.0911 - acc: 0.96 - ETA:
3:26:19 - loss: 0.0913 - acc: 0.96 - ETA: 3:23:30 - loss: 0.0916 - ac
c: 0.96 - ETA: 3:20:46 - loss: 0.0918 - acc: 0.96 - ETA: 3:18:04 - los
s: 0.0913 - acc: 0.96 - ETA: 3:15:26 - loss: 0.0912 - acc: 0.96 - ETA:
3:12:52 - loss: 0.0911 - acc: 0.96 - ETA: 3:10:20 - loss: 0.0922 - ac
c: 0.96 - ETA: 3:07:52 - loss: 0.0929 - acc: 0.96 - ETA: 3:05:26 - los
s: 0.0933 - acc: 0.96 - ETA: 3:03:04 - loss: 0.0931 - acc: 0.96 - ETA:
3:00:44 - loss: 0.0927 - acc: 0.96 - ETA: 2:58:27 - loss: 0.0930 - ac
c: 0.96 - ETA: 2:56:13 - loss: 0.0925 - acc: 0.96 - ETA: 2:54:01 - los
s: 0.0921 - acc: 0.96 - ETA: 2:51:52 - loss: 0.0922 - acc: 0.96 - ETA:
2:49:45 - loss: 0.0927 - acc: 0.96 - ETA: 2:47:40 - loss: 0.0922 - ac
c: 0.96 - ETA: 2:45:38 - loss: 0.0917 - acc: 0.96 - ETA: 2:43:38 - los
s: 0.0917 - acc: 0.96 - ETA: 2:41:40 - loss: 0.0918 - acc: 0.96 - ETA:
2:39:45 - loss: 0.0916 - acc: 0.96 - ETA: 2:37:52 - loss: 0.0914 - ac
c: 0.96 - ETA: 2:36:00 - loss: 0.0914 - acc: 0.96 - ETA: 2:34:11 - los

s: 0.0919 - acc: 0.96 - ETA: 2:32:23 - loss: 0.0925 - acc: 0.96 - ETA:
2:30:37 - loss: 0.0921 - acc: 0.96 - ETA: 2:28:52 - loss: 0.0926 - ac
c: 0.96 - ETA: 2:27:10 - loss: 0.0922 - acc: 0.96 - ETA: 2:25:29 - los
s: 0.0934 - acc: 0.96 - ETA: 2:23:50 - loss: 0.0935 - acc: 0.96 - ETA:
2:22:13 - loss: 0.0938 - acc: 0.96 - ETA: 2:20:37 - loss: 0.0940 - ac
c: 0.96 - ETA: 2:19:03 - loss: 0.0949 - acc: 0.96 - ETA: 2:17:30 - los
s: 0.0949 - acc: 0.96 - ETA: 2:15:58 - loss: 0.0947 - acc: 0.96 - ETA:
2:14:29 - loss: 0.0950 - acc: 0.96 - ETA: 2:13:00 - loss: 0.0948 - ac
c: 0.96 - ETA: 2:11:33 - loss: 0.0946 - acc: 0.96 - ETA: 2:10:07 - los
s: 0.0954 - acc: 0.96 - ETA: 2:08:42 - loss: 0.0958 - acc: 0.96 - ETA:
2:07:19 - loss: 0.0959 - acc: 0.96 - ETA: 2:05:57 - loss: 0.0960 - ac
c: 0.96 - ETA: 2:04:36 - loss: 0.0962 - acc: 0.96 - ETA: 2:03:16 - los
s: 0.0967 - acc: 0.96 - ETA: 2:01:58 - loss: 0.0971 - acc: 0.96 - ETA:
2:00:41 - loss: 0.0970 - acc: 0.96 - ETA: 1:59:25 - loss: 0.0972 - ac
c: 0.96 - ETA: 1:58:10 - loss: 0.0972 - acc: 0.96 - ETA: 1:56:56 - los
s: 0.0972 - acc: 0.96 - ETA: 1:55:43 - loss: 0.0969 - acc: 0.96 - ETA:
1:54:31 - loss: 0.0970 - acc: 0.96 - ETA: 1:53:20 - loss: 0.0970 - ac
c: 0.96 - ETA: 1:52:10 - loss: 0.0971 - acc: 0.96 - ETA: 1:51:01 - los
s: 0.0975 - acc: 0.96 - ETA: 1:49:53 - loss: 0.0976 - acc: 0.96 - ETA:
1:48:46 - loss: 0.0981 - acc: 0.96 - ETA: 1:47:40 - loss: 0.0983 - ac
c: 0.96 - ETA: 1:46:35 - loss: 0.0987 - acc: 0.96 - ETA: 1:45:31 - los
s: 0.0986 - acc: 0.96 - ETA: 1:44:27 - loss: 0.0985 - acc: 0.96 - ETA:
1:43:24 - loss: 0.0985 - acc: 0.96 - ETA: 1:42:22 - loss: 0.0982 - ac
c: 0.96 - ETA: 1:41:21 - loss: 0.0989 - acc: 0.96 - ETA: 1:40:20 - los
s: 0.0990 - acc: 0.96 - ETA: 1:39:20 - loss: 0.0991 - acc: 0.96 - ETA:
1:38:22 - loss: 0.0988 - acc: 0.96 - ETA: 1:37:23 - loss: 0.0987 - ac
c: 0.96 - ETA: 1:36:26 - loss: 0.0985 - acc: 0.96 - ETA: 1:35:29 - los
s: 0.0985 - acc: 0.96 - ETA: 1:34:33 - loss: 0.0983 - acc: 0.96 - ETA:
1:33:38 - loss: 0.0981 - acc: 0.96 - ETA: 1:32:43 - loss: 0.0982 - ac
c: 0.96 - ETA: 1:31:49 - loss: 0.0985 - acc: 0.96 - ETA: 1:30:55 - los
s: 0.0984 - acc: 0.96 - ETA: 1:30:03 - loss: 0.0984 - acc: 0.96 - ETA:
1:29:11 - loss: 0.0987 - acc: 0.96 - ETA: 1:28:20 - loss: 0.0984 - ac
c: 0.96 - ETA: 1:27:29 - loss: 0.0981 - acc: 0.96 - ETA: 1:26:38 - los
s: 0.0979 - acc: 0.96 - ETA: 1:25:49 - loss: 0.0982 - acc: 0.96 - ETA:
1:24:59 - loss: 0.0981 - acc: 0.96 - ETA: 1:24:11 - loss: 0.0980 - ac
c: 0.96 - ETA: 1:23:23 - loss: 0.0979 - acc: 0.96 - ETA: 1:22:35 - los
s: 0.0982 - acc: 0.96 - ETA: 1:21:48 - loss: 0.0986 - acc: 0.96 - ETA:
1:21:02 - loss: 0.0984 - acc: 0.96 - ETA: 1:20:16 - loss: 0.0983 - ac
c: 0.96 - ETA: 1:19:31 - loss: 0.0982 - acc: 0.96 - ETA: 1:18:46 - los

s: 0.0985 - acc: 0.96 - ETA: 1:18:01 - loss: 0.0985 - acc: 0.96 - ETA:
1:17:18 - loss: 0.0981 - acc: 0.96 - ETA: 1:16:34 - loss: 0.0979 - ac
c: 0.96 - ETA: 1:15:51 - loss: 0.0976 - acc: 0.96 - ETA: 1:15:09 - los
s: 0.0974 - acc: 0.96 - ETA: 1:14:27 - loss: 0.0971 - acc: 0.96 - ETA:
1:13:45 - loss: 0.0973 - acc: 0.96 - ETA: 1:13:04 - loss: 0.0974 - ac
c: 0.96 - ETA: 1:12:23 - loss: 0.0975 - acc: 0.96 - ETA: 1:11:43 - los
s: 0.0976 - acc: 0.96 - ETA: 1:11:03 - loss: 0.0973 - acc: 0.96 - ETA:
1:10:23 - loss: 0.0975 - acc: 0.96 - ETA: 1:09:44 - loss: 0.0973 - ac
c: 0.96 - ETA: 1:09:05 - loss: 0.0975 - acc: 0.964725344/26800 [=====
=====>..] - ETA: 1:08:27 - loss: 0.0978 - acc: 0.96 - ET
A: 1:07:49 - loss: 0.0978 - acc: 0.96 - ETA: 1:07:12 - loss: 0.0978 - a
cc: 0.96 - ETA: 1:06:35 - loss: 0.0981 - acc: 0.96 - ETA: 1:05:58 - los
s: 0.0980 - acc: 0.96 - ETA: 1:05:22 - loss: 0.0977 - acc: 0.96 - ETA:
1:04:46 - loss: 0.0978 - acc: 0.96 - ETA: 1:04:11 - loss: 0.0976 - ac
c: 0.96 - ETA: 1:03:35 - loss: 0.0977 - acc: 0.96 - ETA: 1:03:00 - los
s: 0.0980 - acc: 0.96 - ETA: 1:02:26 - loss: 0.0981 - acc: 0.96 - ETA:
1:01:52 - loss: 0.0979 - acc: 0.96 - ETA: 1:01:18 - loss: 0.0976 - ac
c: 0.96 - ETA: 1:00:44 - loss: 0.0981 - acc: 0.96 - ETA: 1:00:10 - los
s: 0.0982 - acc: 0.96 - ETA: 59:37 - loss: 0.0988 - acc: 0.9644 - ETA:
59:04 - loss: 0.0987 - acc: 0.96 - ETA: 58:32 - loss: 0.0986 - acc: 0.
96 - ETA: 57:59 - loss: 0.0995 - acc: 0.96 - ETA: 57:27 - loss: 0.0997
- acc: 0.96 - ETA: 56:55 - loss: 0.0995 - acc: 0.96 - ETA: 56:24 - los
s: 0.0993 - acc: 0.96 - ETA: 55:52 - loss: 0.0995 - acc: 0.96 - ETA: 5
5:21 - loss: 0.0996 - acc: 0.96 - ETA: 54:51 - loss: 0.0995 - acc: 0.96
- ETA: 54:20 - loss: 0.0995 - acc: 0.96 - ETA: 53:50 - loss: 0.0997 -
acc: 0.96 - ETA: 53:20 - loss: 0.0999 - acc: 0.96 - ETA: 52:50 - loss:
0.1001 - acc: 0.96 - ETA: 52:21 - loss: 0.0998 - acc: 0.96 - ETA: 51:5
2 - loss: 0.1000 - acc: 0.96 - ETA: 51:23 - loss: 0.1004 - acc: 0.96 -
ETA: 50:54 - loss: 0.1006 - acc: 0.96 - ETA: 50:26 - loss: 0.1005 - ac
c: 0.96 - ETA: 49:58 - loss: 0.1003 - acc: 0.96 - ETA: 49:30 - loss: 0.
1000 - acc: 0.96 - ETA: 49:02 - loss: 0.0999 - acc: 0.96 - ETA: 48:35 -
loss: 0.0999 - acc: 0.96 - ETA: 48:08 - loss: 0.0999 - acc: 0.96 - ET
A: 47:41 - loss: 0.0999 - acc: 0.96 - ETA: 47:14 - loss: 0.0998 - acc:
0.96 - ETA: 46:47 - loss: 0.1000 - acc: 0.96 - ETA: 46:21 - loss: 0.10
01 - acc: 0.96 - ETA: 45:55 - loss: 0.1003 - acc: 0.96 - ETA: 45:29 - l
oss: 0.1001 - acc: 0.96 - ETA: 45:03 - loss: 0.1004 - acc: 0.96 - ETA:
44:38 - loss: 0.1005 - acc: 0.96 - ETA: 44:12 - loss: 0.1006 - acc: 0.
96 - ETA: 43:47 - loss: 0.1007 - acc: 0.96 - ETA: 43:22 - loss: 0.1006
- acc: 0.96 - ETA: 42:58 - loss: 0.1007 - acc: 0.96 - ETA: 42:33 - los

s: 0.1007 - acc: 0.96 - ETA: 42:09 - loss: 0.1008 - acc: 0.96 - ETA: 41:45 - loss: 0.1008 - acc: 0.96 - ETA: 41:21 - loss: 0.1010 - acc: 0.96 - ETA: 40:57 - loss: 0.1011 - acc: 0.96 - ETA: 40:33 - loss: 0.1013 - acc: 0.96 - ETA: 40:10 - loss: 0.1014 - acc: 0.96 - ETA: 39:47 - loss: 0.1015 - acc: 0.96 - ETA: 39:24 - loss: 0.1017 - acc: 0.96 - ETA: 39:01 - loss: 0.1016 - acc: 0.96 - ETA: 38:38 - loss: 0.1019 - acc: 0.96 - ETA: 38:16 - loss: 0.1021 - acc: 0.96 - ETA: 37:53 - loss: 0.1020 - acc: 0.96 - ETA: 37:31 - loss: 0.1021 - acc: 0.96 - ETA: 37:09 - loss: 0.1019 - acc: 0.96 - ETA: 36:47 - loss: 0.1019 - acc: 0.96 - ETA: 36:25 - loss: 0.1017 - acc: 0.96 - ETA: 36:04 - loss: 0.1015 - acc: 0.96 - ETA: 35:42 - loss: 0.1017 - acc: 0.96 - ETA: 35:21 - loss: 0.1017 - acc: 0.96 - ETA: 35:00 - loss: 0.1019 - acc: 0.96 - ETA: 34:39 - loss: 0.1023 - acc: 0.96 - ETA: 34:18 - loss: 0.1024 - acc: 0.96 - ETA: 33:58 - loss: 0.1026 - acc: 0.96 - ETA: 33:37 - loss: 0.1024 - acc: 0.96 - ETA: 33:17 - loss: 0.1029 - acc: 0.96 - ETA: 32:57 - loss: 0.1030 - acc: 0.96 - ETA: 32:37 - loss: 0.1031 - acc: 0.96 - ETA: 32:17 - loss: 0.1031 - acc: 0.96 - ETA: 31:57 - loss: 0.1031 - acc: 0.96 - ETA: 31:37 - loss: 0.1030 - acc: 0.96 - ETA: 31:18 - loss: 0.1034 - acc: 0.96 - ETA: 30:58 - loss: 0.1034 - acc: 0.96 - ETA: 30:39 - loss: 0.1036 - acc: 0.96 - ETA: 30:20 - loss: 0.1034 - acc: 0.96 - ETA: 30:01 - loss: 0.1036 - acc: 0.96 - ETA: 29:42 - loss: 0.1036 - acc: 0.96 - ETA: 29:24 - loss: 0.1038 - acc: 0.96 - ETA: 29:05 - loss: 0.1041 - acc: 0.96 - ETA: 28:47 - loss: 0.1042 - acc: 0.96 - ETA: 28:28 - loss: 0.1044 - acc: 0.96 - ETA: 28:10 - loss: 0.1044 - acc: 0.96 - ETA: 27:52 - loss: 0.1045 - acc: 0.96 - ETA: 27:34 - loss: 0.1043 - acc: 0.96 - ETA: 27:16 - loss: 0.1042 - acc: 0.96 - ETA: 26:59 - loss: 0.1041 - acc: 0.96 - ETA: 26:41 - loss: 0.1042 - acc: 0.96 - ETA: 26:23 - loss: 0.1044 - acc: 0.96 - ETA: 26:06 - loss: 0.1046 - acc: 0.96 - ETA: 25:49 - loss: 0.1049 - acc: 0.96 - ETA: 25:31 - loss: 0.1046 - acc: 0.96 - ETA: 25:14 - loss: 0.1046 - acc: 0.96 - ETA: 24:57 - loss: 0.1046 - acc: 0.96 - ETA: 24:40 - loss: 0.1045 - acc: 0.96 - ETA: 24:24 - loss: 0.1045 - acc: 0.96 - ETA: 24:07 - loss: 0.1047 - acc: 0.96 - ETA: 23:51 - loss: 0.1052 - acc: 0.96 - ETA: 23:34 - loss: 0.1054 - acc: 0.96 - ETA: 23:18 - loss: 0.1056 - acc: 0.96 - ETA: 23:02 - loss: 0.1053 - acc: 0.96 - ETA: 22:45 - loss: 0.1052 - acc: 0.96 - ETA: 22:29 - loss: 0.1052 - acc: 0.96 - ETA: 22:13 - loss: 0.1049 - acc: 0.96 - ETA: 21:58 - loss: 0.1053 - acc: 0.96 - ETA: 21:42 - loss: 0.1053 - acc: 0.96 - ETA: 21:26 - loss: 0.1054 - acc: 0.96 - ETA: 21:11 - loss: 0.1054 - acc: 0.96 - ETA: 20:55 - loss: 0.1054 - acc: 0.96 - ETA: 20:40 - loss: 0.1058 - acc: 0.96 - ETA: 20:2

4 - loss: 0.1059 - acc: 0.96 - ETA: 20:09 - loss: 0.1060 - acc: 0.96 -
ETA: 19:54 - loss: 0.1063 - acc: 0.96 - ETA: 19:39 - loss: 0.1062 - ac
c: 0.96 - ETA: 19:24 - loss: 0.1062 - acc: 0.96 - ETA: 19:09 - loss: 0.
1063 - acc: 0.96 - ETA: 18:54 - loss: 0.1063 - acc: 0.96 - ETA: 18:40 -
loss: 0.1062 - acc: 0.96 - ETA: 18:25 - loss: 0.1062 - acc: 0.96 - ET
A: 18:11 - loss: 0.1062 - acc: 0.96 - ETA: 17:56 - loss: 0.1063 - acc:
0.96 - ETA: 17:42 - loss: 0.1061 - acc: 0.96 - ETA: 17:28 - loss: 0.10
59 - acc: 0.96 - ETA: 17:14 - loss: 0.1057 - acc: 0.96 - ETA: 17:00 - l
oss: 0.1060 - acc: 0.96 - ETA: 16:46 - loss: 0.1063 - acc: 0.96 - ETA:
16:32 - loss: 0.1064 - acc: 0.96 - ETA: 16:18 - loss: 0.1065 - acc: 0.
96 - ETA: 16:04 - loss: 0.1066 - acc: 0.96 - ETA: 15:50 - loss: 0.1068
- acc: 0.96 - ETA: 15:37 - loss: 0.1067 - acc: 0.96 - ETA: 15:23 - los
s: 0.1068 - acc: 0.96 - ETA: 15:10 - loss: 0.1069 - acc: 0.96 - ETA: 1
4:56 - loss: 0.1067 - acc: 0.96 - ETA: 14:43 - loss: 0.1069 - acc: 0.96
- ETA: 14:30 - loss: 0.1069 - acc: 0.96 - ETA: 14:16 - loss: 0.1070 -
acc: 0.96 - ETA: 14:03 - loss: 0.1070 - acc: 0.96 - ETA: 13:50 - loss:
0.1070 - acc: 0.96 - ETA: 13:37 - loss: 0.1068 - acc: 0.96 - ETA: 13:2
4 - loss: 0.1068 - acc: 0.96 - ETA: 13:12 - loss: 0.1069 - acc: 0.96 -
ETA: 12:59 - loss: 0.1067 - acc: 0.96 - ETA: 12:46 - loss: 0.1070 - ac
c: 0.96 - ETA: 12:33 - loss: 0.1072 - acc: 0.96 - ETA: 12:21 - loss: 0.
1071 - acc: 0.96 - ETA: 12:08 - loss: 0.1071 - acc: 0.96 - ETA: 11:56 -
loss: 0.1070 - acc: 0.96 - ETA: 11:43 - loss: 0.1071 - acc: 0.96 - ET
A: 11:31 - loss: 0.1072 - acc: 0.96 - ETA: 11:19 - loss: 0.1071 - acc:
0.96 - ETA: 11:07 - loss: 0.1071 - acc: 0.96 - ETA: 10:55 - loss: 0.10
70 - acc: 0.96 - ETA: 10:43 - loss: 0.1072 - acc: 0.96 - ETA: 10:31 - l
oss: 0.1075 - acc: 0.96 - ETA: 10:19 - loss: 0.1073 - acc: 0.96 - ETA:
10:07 - loss: 0.1072 - acc: 0.96 - ETA: 9:55 - loss: 0.1076 - acc: 0.9
602 - ETA: 9:43 - loss: 0.1077 - acc: 0.960 - ETA: 9:31 - loss: 0.1081
- acc: 0.959 - ETA: 9:20 - loss: 0.1080 - acc: 0.959 - ETA: 9:08 - los
s: 0.1079 - acc: 0.960 - ETA: 8:57 - loss: 0.1079 - acc: 0.960 - ETA:
8:45 - loss: 0.1079 - acc: 0.960 - ETA: 8:34 - loss: 0.1077 - acc: 0.9
60 - ETA: 8:22 - loss: 0.1076 - acc: 0.960 - ETA: 8:11 - loss: 0.1077 -
acc: 0.960 - ETA: 8:00 - loss: 0.1078 - acc: 0.960 - ETA: 7:49 - loss:
0.1078 - acc: 0.960 - ETA: 7:37 - loss: 0.1079 - acc: 0.960 - ETA: 7:2
6 - loss: 0.1078 - acc: 0.960 - ETA: 7:15 - loss: 0.1079 - acc: 0.960 -
ETA: 7:04 - loss: 0.1083 - acc: 0.959 - ETA: 6:53 - loss: 0.1082 - ac
c: 0.959 - ETA: 6:43 - loss: 0.1082 - acc: 0.959 - ETA: 6:32 - loss: 0.
1081 - acc: 0.960 - ETA: 6:21 - loss: 0.1081 - acc: 0.960 - ETA: 6:10 -
loss: 0.1083 - acc: 0.959 - ETA: 6:00 - loss: 0.1085 - acc: 0.959 - ET

```

A: 5:49 - loss: 0.1083 - acc: 0.959 - ETA: 5:38 - loss: 0.1082 - acc:
0.959 - ETA: 5:28 - loss: 0.1082 - acc: 0.959 - ETA: 5:17 - loss: 0.10
83 - acc: 0.959 - ETA: 5:07 - loss: 0.1085 - acc: 0.959 - ETA: 4:57 - l
oss: 0.1083 - acc: 0.959 - ETA: 4:46 - loss: 0.1083 - acc: 0.959 - ETA:
4:36 - loss: 0.1083 - acc: 0.959 - ETA: 4:26 - loss: 0.1082 - acc: 0.9
60 - ETA: 4:16 - loss: 0.1084 - acc: 0.959 - ETA: 4:05 - loss: 0.1083 -
acc: 0.960 - ETA: 3:55 - loss: 0.1081 - acc: 0.960 - ETA: 3:45 - loss:
0.1079 - acc: 0.960 - ETA: 3:35 - loss: 0.1079 - acc: 0.960126800/2680
0 [=====] - ETA: 3:25 - loss: 0.1078 - acc: 0.
960 - ETA: 3:16 - loss: 0.1084 - acc: 0.960 - ETA: 3:06 - loss: 0.1082
- acc: 0.960 - ETA: 2:56 - loss: 0.1081 - acc: 0.960 - ETA: 2:46 - los
s: 0.1081 - acc: 0.960 - ETA: 2:36 - loss: 0.1081 - acc: 0.960 - ETA:
2:27 - loss: 0.1082 - acc: 0.960 - ETA: 2:17 - loss: 0.1081 - acc: 0.9
60 - ETA: 2:07 - loss: 0.1083 - acc: 0.960 - ETA: 1:58 - loss: 0.1082 -
acc: 0.960 - ETA: 1:48 - loss: 0.1082 - acc: 0.960 - ETA: 1:39 - loss:
0.1083 - acc: 0.960 - ETA: 1:29 - loss: 0.1085 - acc: 0.960 - ETA: 1:2
0 - loss: 0.1084 - acc: 0.960 - ETA: 1:11 - loss: 0.1084 - acc: 0.960 -
ETA: 1:01 - loss: 0.1083 - acc: 0.960 - ETA: 52s - loss: 0.1083 - acc:
0.960 - ETA: 43s - loss: 0.1082 - acc: 0.96 - ETA: 34s - loss: 0.1081
- acc: 0.96 - ETA: 24s - loss: 0.1083 - acc: 0.96 - ETA: 15s - loss:
0.1081 - acc: 0.96 - ETA: 6s - loss: 0.1081 - acc: 0.9602 - 3840s 143m
s/step - loss: 0.1082 - acc: 0.9601 - val_loss: 0.2718 - val_acc: 0.912
0

```

```

In [46]: score = model.evaluate(X_test, y_test, verbose=0)
print('Test score:', score[0])
print('Test accuracy:', score[1])
x = list(range(1,6))
vy = history.history['val_loss']
ty = history.history['loss']

```

```

Test score: 0.27182730779390446
Test accuracy: 0.911969696969697

```

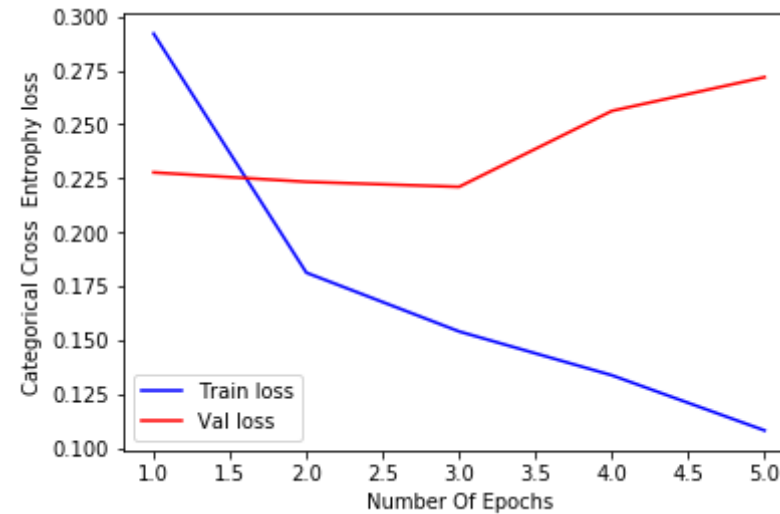
```

In [47]: import matplotlib.pyplot as plt

plt.plot(x, ty, 'b', label= 'Train loss')
plt.plot(x, vy, 'r', label= 'Val loss')
plt.legend()

```

```
plt.xlabel("Number Of Epochs")
plt.ylabel("Categorical Cross Entropy loss")
plt.show()
```



```
In [38]: embedding_vecor_length = 32
model1 = Sequential()
model1.add(Embedding(5000, embedding_vecor_length, input_length=max_review_length))
model1.add(LSTM(100, return_sequences=True))
model1.add(LSTM(100))
model1.add(Dropout(0.5))
model1.add(Dense(2, activation='softmax'))
model1.compile(loss='binary_crossentropy', optimizer='adam', metrics=['accuracy'])
print(model1.summary())
```

Layer (type)	Output Shape	Param #
embedding_1 (Embedding)	(None, 600, 32)	160000
lstm_1 (LSTM)	(None, 600, 100)	53200
lstm_2 (LSTM)	(None, 100)	80400

LSM2 (LSM)	(None, 100)	80400
dropout_1 (Dropout)	(None, 100)	0
dense_1 (Dense)	(None, 2)	202
=====		
Total params: 293,802		
Trainable params: 293,802		
Non-trainable params: 0		
None		

In [39]: `history1=model1.fit(X_train,y_train,batch_size=64,epochs=2,verbose=1,validation_data=(X_test,y_test))`

Train on 26800 samples, validate on 13200 samples

Epoch 1/2

12992/26800 [=====>.....] - ETA: 43:21 - loss: 0.6937 - acc: 0.45 - ETA: 29:53 - loss: 0.6887 - acc: 0.66 - ETA: 25:26 - loss: 0.6841 - acc: 0.72 - ETA: 23:19 - loss: 0.6785 - acc: 0.75 - ETA: 21:54 - loss: 0.6714 - acc: 0.77 - ETA: 20:50 - loss: 0.6629 - acc: 0.78 - ETA: 20:07 - loss: 0.6507 - acc: 0.79 - ETA: 19:39 - loss: 0.6334 - acc: 0.80 - ETA: 19:13 - loss: 0.6161 - acc: 0.80 - ETA: 19:01 - loss: 0.6062 - acc: 0.80 - ETA: 18:43 - loss: 0.5946 - acc: 0.80 - ETA: 18:32 - loss: 0.5676 - acc: 0.81 - ETA: 18:33 - loss: 0.5473 - acc: 0.82 - ETA: 18:32 - loss: 0.5503 - acc: 0.82 - ETA: 18:28 - loss: 0.5496 - acc: 0.81 - ETA: 18:35 - loss: 0.5412 - acc: 0.82 - ETA: 18:30 - loss: 0.5367 - acc: 0.82 - ETA: 18:27 - loss: 0.5292 - acc: 0.82 - ETA: 18:19 - loss: 0.5255 - acc: 0.82 - ETA: 18:14 - loss: 0.5197 - acc: 0.82 - ETA: 18:07 - loss: 0.5145 - acc: 0.82 - ETA: 18:03 - loss: 0.5114 - acc: 0.82 - ETA: 17:56 - loss: 0.5068 - acc: 0.83 - ETA: 17:49 - loss: 0.5027 - acc: 0.83 - ETA: 17:47 - loss: 0.5055 - acc: 0.82 - ETA: 17:47 - loss: 0.4998 - acc: 0.82 - ETA: 17:39 - loss: 0.4950 - acc: 0.83 - ETA: 17:34 - loss: 0.4945 - acc: 0.83 - ETA: 17:27 - loss: 0.4898 - acc: 0.83 - ETA: 17:20 - loss: 0.4820 - acc: 0.83 - ETA: 17:14 - loss: 0.4776 - acc: 0.83 - ETA: 17:08 - loss: 0.4805 - acc: 0.83 - ETA: 17:04 - loss: 0.4790 - acc: 0.83 - ETA: 16:59 - loss: 0.4771 - acc: 0.83 - ETA: 16:54 - loss: 0.4772 - acc: 0.83 - ETA: 16:49 - loss: 0.4740 - acc: 0.83 - ETA: 16:44 - loss: 0.4708 - acc: 0.83 - ETA: 16:39 - loss: 0.4691 - acc: 0.83

- ETA: 16:35 - loss: 0.4670 - acc: 0.83 - ETA: 16:32 - loss: 0.4660 - acc: 0.84 - ETA: 16:28 - loss: 0.4651 - acc: 0.84 - ETA: 16:24 - loss: 0.4655 - acc: 0.83 - ETA: 16:20 - loss: 0.4644 - acc: 0.83 - ETA: 16:16 - loss: 0.4651 - acc: 0.83 - ETA: 16:13 - loss: 0.4621 - acc: 0.83 - ETA: 16:09 - loss: 0.4619 - acc: 0.83 - ETA: 16:05 - loss: 0.4634 - acc: 0.83 - ETA: 16:02 - loss: 0.4600 - acc: 0.83 - ETA: 15:58 - loss: 0.4588 - acc: 0.83 - ETA: 15:56 - loss: 0.4596 - acc: 0.83 - ETA: 15:52 - loss: 0.4590 - acc: 0.83 - ETA: 15:49 - loss: 0.4574 - acc: 0.83 - ETA: 15:45 - loss: 0.4559 - acc: 0.83 - ETA: 15:42 - loss: 0.4547 - acc: 0.83 - ETA: 15:38 - loss: 0.4519 - acc: 0.83 - ETA: 15:35 - loss: 0.4491 - acc: 0.83 - ETA: 15:31 - loss: 0.4525 - acc: 0.83 - ETA: 15:28 - loss: 0.4505 - acc: 0.83 - ETA: 15:25 - loss: 0.4501 - acc: 0.83 - ETA: 15:22 - loss: 0.4481 - acc: 0.83 - ETA: 15:19 - loss: 0.4477 - acc: 0.83 - ETA: 15:16 - loss: 0.4449 - acc: 0.83 - ETA: 15:13 - loss: 0.4436 - acc: 0.83 - ETA: 15:10 - loss: 0.4419 - acc: 0.83 - ETA: 15:08 - loss: 0.4396 - acc: 0.83 - ETA: 15:07 - loss: 0.4380 - acc: 0.83 - ETA: 15:04 - loss: 0.4348 - acc: 0.83 - ETA: 15:03 - loss: 0.4354 - acc: 0.83 - ETA: 15:02 - loss: 0.4353 - acc: 0.83 - ETA: 15:01 - loss: 0.4325 - acc: 0.83 - ETA: 15:00 - loss: 0.4300 - acc: 0.84 - ETA: 14:59 - loss: 0.4280 - acc: 0.84 - ETA: 14:58 - loss: 0.4263 - acc: 0.84 - ETA: 14:57 - loss: 0.4256 - acc: 0.84 - ETA: 14:56 - loss: 0.4253 - acc: 0.84 - ETA: 14:56 - loss: 0.4245 - acc: 0.84 - ETA: 14:59 - loss: 0.4229 - acc: 0.84 - ETA: 15:02 - loss: 0.4208 - acc: 0.84 - ETA: 14:59 - loss: 0.4190 - acc: 0.84 - ETA: 14:56 - loss: 0.4169 - acc: 0.84 - ETA: 14:54 - loss: 0.4156 - acc: 0.84 - ETA: 14:52 - loss: 0.4134 - acc: 0.84 - ETA: 14:49 - loss: 0.4115 - acc: 0.84 - ETA: 14:46 - loss: 0.4097 - acc: 0.84 - ETA: 14:44 - loss: 0.4088 - acc: 0.84 - ETA: 14:41 - loss: 0.4069 - acc: 0.84 - ETA: 14:39 - loss: 0.4055 - acc: 0.84 - ETA: 14:36 - loss: 0.4049 - acc: 0.84 - ETA: 14:34 - loss: 0.4030 - acc: 0.84 - ETA: 14:31 - loss: 0.4022 - acc: 0.84 - ETA: 14:28 - loss: 0.4018 - acc: 0.84 - ETA: 14:25 - loss: 0.3999 - acc: 0.84 - ETA: 14:23 - loss: 0.3993 - acc: 0.84 - ETA: 14:20 - loss: 0.3981 - acc: 0.84 - ETA: 14:17 - loss: 0.3961 - acc: 0.84 - ETA: 14:15 - loss: 0.3968 - acc: 0.84 - ETA: 14:12 - loss: 0.3962 - acc: 0.84 - ETA: 14:10 - loss: 0.3958 - acc: 0.84 - ETA: 14:07 - loss: 0.3955 - acc: 0.84 - ETA: 14:04 - loss: 0.3945 - acc: 0.85 - ETA: 14:01 - loss: 0.3936 - acc: 0.85 - ETA: 13:58 - loss: 0.3924 - acc: 0.85 - ETA: 13:55 - loss: 0.3917 - acc: 0.85 - ETA: 13:52 - loss: 0.3921 - acc: 0.84 - ETA: 13:49 - loss: 0.3909 - acc: 0.85 - ETA: 13:46 - loss: 0.3897 - acc: 0.85 - ETA: 13:43 - loss: 0.3888 - acc: 0.85 - ETA: 13:40

- loss: 0.3893 - acc: 0.85 - ETA: 13:37 - loss: 0.3872 - acc: 0.85 - ET
A: 13:35 - loss: 0.3861 - acc: 0.85 - ETA: 13:32 - loss: 0.3852 - acc:
0.85 - ETA: 13:29 - loss: 0.3836 - acc: 0.85 - ETA: 13:26 - loss: 0.382
0 - acc: 0.85 - ETA: 13:23 - loss: 0.3826 - acc: 0.85 - ETA: 13:20 - lo
ss: 0.3818 - acc: 0.85 - ETA: 13:17 - loss: 0.3799 - acc: 0.85 - ETA: 1
3:14 - loss: 0.3791 - acc: 0.85 - ETA: 13:12 - loss: 0.3778 - acc: 0.85
- ETA: 13:09 - loss: 0.3763 - acc: 0.85 - ETA: 13:06 - loss: 0.3755 - a
cc: 0.85 - ETA: 13:03 - loss: 0.3749 - acc: 0.85 - ETA: 13:01 - loss:
0.3731 - acc: 0.85 - ETA: 12:58 - loss: 0.3725 - acc: 0.85 - ETA: 12:55
- loss: 0.3722 - acc: 0.85 - ETA: 12:53 - loss: 0.3704 - acc: 0.85 - ET
A: 12:50 - loss: 0.3696 - acc: 0.85 - ETA: 12:47 - loss: 0.3686 - acc:
0.85 - ETA: 12:44 - loss: 0.3679 - acc: 0.85 - ETA: 12:42 - loss: 0.367
8 - acc: 0.85 - ETA: 12:39 - loss: 0.3680 - acc: 0.85 - ETA: 12:36 - lo
ss: 0.3675 - acc: 0.85 - ETA: 12:33 - loss: 0.3666 - acc: 0.85 - ETA: 1
2:30 - loss: 0.3660 - acc: 0.85 - ETA: 12:28 - loss: 0.3650 - acc: 0.85
- ETA: 12:25 - loss: 0.3639 - acc: 0.85 - ETA: 12:22 - loss: 0.3629 - a
cc: 0.85 - ETA: 12:19 - loss: 0.3616 - acc: 0.86 - ETA: 12:16 - loss:
0.3639 - acc: 0.85 - ETA: 12:13 - loss: 0.3628 - acc: 0.86 - ETA: 12:11
- loss: 0.3619 - acc: 0.86 - ETA: 12:08 - loss: 0.3617 - acc: 0.86 - ET
A: 12:05 - loss: 0.3616 - acc: 0.86 - ETA: 12:02 - loss: 0.3614 - acc:
0.86 - ETA: 12:00 - loss: 0.3612 - acc: 0.86 - ETA: 11:57 - loss: 0.360
8 - acc: 0.86 - ETA: 11:54 - loss: 0.3606 - acc: 0.86 - ETA: 11:51 - lo
ss: 0.3603 - acc: 0.86 - ETA: 11:48 - loss: 0.3593 - acc: 0.86 - ETA: 1
1:46 - loss: 0.3586 - acc: 0.86 - ETA: 11:43 - loss: 0.3580 - acc: 0.86
- ETA: 11:40 - loss: 0.3584 - acc: 0.86 - ETA: 11:37 - loss: 0.3576 - a
cc: 0.86 - ETA: 11:34 - loss: 0.3571 - acc: 0.86 - ETA: 11:32 - loss:
0.3561 - acc: 0.86 - ETA: 11:29 - loss: 0.3549 - acc: 0.86 - ETA: 11:26
- loss: 0.3544 - acc: 0.86 - ETA: 11:24 - loss: 0.3540 - acc: 0.86 - ET
A: 11:21 - loss: 0.3535 - acc: 0.86 - ETA: 11:18 - loss: 0.3529 - acc:
0.86 - ETA: 11:16 - loss: 0.3519 - acc: 0.86 - ETA: 11:13 - loss: 0.351
9 - acc: 0.86 - ETA: 11:10 - loss: 0.3513 - acc: 0.86 - ETA: 11:07 - lo
ss: 0.3503 - acc: 0.86 - ETA: 11:05 - loss: 0.3496 - acc: 0.86 - ETA: 1
1:02 - loss: 0.3493 - acc: 0.86 - ETA: 10:59 - loss: 0.3487 - acc: 0.86
- ETA: 10:57 - loss: 0.3487 - acc: 0.86 - ETA: 10:55 - loss: 0.3479 - a
cc: 0.86 - ETA: 10:54 - loss: 0.3474 - acc: 0.86 - ETA: 10:52 - loss:
0.3473 - acc: 0.86 - ETA: 10:50 - loss: 0.3469 - acc: 0.86 - ETA: 10:48
- loss: 0.3467 - acc: 0.86 - ETA: 10:45 - loss: 0.3462 - acc: 0.86 - ET
A: 10:42 - loss: 0.3465 - acc: 0.86 - ETA: 10:40 - loss: 0.3465 - acc:
0.86 - ETA: 10:37 - loss: 0.3457 - acc: 0.86 - ETA: 10:34 - loss: 0.344

8 - acc: 0.86 - ETA: 10:32 - loss: 0.3447 - acc: 0.86 - ETA: 10:29 - loss: 0.3446 - acc: 0.86 - ETA: 10:26 - loss: 0.3442 - acc: 0.86 - ETA: 10:24 - loss: 0.3437 - acc: 0.86 - ETA: 10:21 - loss: 0.3432 - acc: 0.86 - ETA: 10:18 - loss: 0.3426 - acc: 0.86 - ETA: 10:16 - loss: 0.3419 - acc: 0.86 - ETA: 10:14 - loss: 0.3417 - acc: 0.86 - ETA: 10:12 - loss: 0.3418 - acc: 0.86 - ETA: 10:09 - loss: 0.3412 - acc: 0.86 - ETA: 10:07 - loss: 0.3404 - acc: 0.86 - ETA: 10:05 - loss: 0.3400 - acc: 0.86 - ETA: 10:02 - loss: 0.3405 - acc: 0.86 - ETA: 9:59 - loss: 0.3396 - acc: 0.8683 - ETA: 9:56 - loss: 0.3391 - acc: 0.868 - ETA: 9:54 - loss: 0.3384 - acc: 0.868 - ETA: 9:51 - loss: 0.3386 - acc: 0.868 - ETA: 9:49 - loss: 0.3377 - acc: 0.868 - ETA: 9:46 - loss: 0.3369 - acc: 0.869 - ETA: 9:43 - loss: 0.3365 - acc: 0.869 - ETA: 9:40 - loss: 0.3360 - acc: 0.869 - ETA: 9:38 - loss: 0.3356 - acc: 0.869 - ETA: 9:35 - loss: 0.3350 - acc: 0.870 - ETA: 9:33 - loss: 0.3349 - acc: 0.869 - ETA: 9:30 - loss: 0.3344 - acc: 0.870 - ETA: 9:27 - loss: 0.3339 - acc: 0.87026112/26800 [=====>.] - ETA: 9:24 - loss: 0.3328 - acc: 0.870 - ETA: 9:22 - loss: 0.3321 - acc: 0.871 - ETA: 9:19 - loss: 0.3327 - acc: 0.871 - ETA: 9:16 - loss: 0.3322 - acc: 0.871 - ETA: 9:14 - loss: 0.3313 - acc: 0.871 - ETA: 9:11 - loss: 0.3305 - acc: 0.872 - ETA: 9:08 - loss: 0.3300 - acc: 0.872 - ETA: 9:06 - loss: 0.3290 - acc: 0.872 - ETA: 9:03 - loss: 0.3290 - acc: 0.872 - ETA: 9:00 - loss: 0.3292 - acc: 0.872 - ETA: 8:58 - loss: 0.3290 - acc: 0.872 - ETA: 8:55 - loss: 0.3283 - acc: 0.872 - ETA: 8:53 - loss: 0.3275 - acc: 0.872 - ETA: 8:50 - loss: 0.3273 - acc: 0.873 - ETA: 8:47 - loss: 0.3270 - acc: 0.873 - ETA: 8:44 - loss: 0.3260 - acc: 0.873 - ETA: 8:42 - loss: 0.3253 - acc: 0.873 - ETA: 8:39 - loss: 0.3251 - acc: 0.873 - ETA: 8:36 - loss: 0.3244 - acc: 0.874 - ETA: 8:33 - loss: 0.3242 - acc: 0.874 - ETA: 8:31 - loss: 0.3241 - acc: 0.874 - ETA: 8:28 - loss: 0.3232 - acc: 0.874 - ETA: 8:25 - loss: 0.3231 - acc: 0.874 - ETA: 8:23 - loss: 0.3227 - acc: 0.874 - ETA: 8:20 - loss: 0.3222 - acc: 0.874 - ETA: 8:17 - loss: 0.3219 - acc: 0.874 - ETA: 8:15 - loss: 0.3218 - acc: 0.875 - ETA: 8:12 - loss: 0.3216 - acc: 0.875 - ETA: 8:09 - loss: 0.3213 - acc: 0.875 - ETA: 8:06 - loss: 0.3203 - acc: 0.875 - ETA: 8:04 - loss: 0.3200 - acc: 0.876 - ETA: 8:01 - loss: 0.3195 - acc: 0.876 - ETA: 7:58 - loss: 0.3190 - acc: 0.876 - ETA: 7:56 - loss: 0.3188 - acc: 0.876 - ETA: 7:53 - loss: 0.3189 - acc: 0.876 - ETA: 7:50 - loss: 0.3185 - acc: 0.876 - ETA: 7:48 - loss: 0.3185 - acc: 0.876 - ETA: 7:45 - loss: 0.3181 - acc: 0.876 - ETA: 7:42 - loss: 0.3181 - acc: 0.876 - ETA: 7:40 - loss: 0.3177 - acc: 0.876 - ETA: 7:37 - loss: 0.3175 - acc: 0.876 - ETA: 7:34 - loss: 0.3173 - acc:

0.876 - ETA: 7:32 - loss: 0.3169 - acc: 0.877 - ETA: 7:29 - loss: 0.3165 - acc: 0.877 - ETA: 7:26 - loss: 0.3167 - acc: 0.877 - ETA: 7:24 - loss: 0.3165 - acc: 0.877 - ETA: 7:21 - loss: 0.3160 - acc: 0.877 - ETA: 7:18 - loss: 0.3152 - acc: 0.877 - ETA: 7:16 - loss: 0.3149 - acc: 0.877 - ETA: 7:13 - loss: 0.3145 - acc: 0.877 - ETA: 7:11 - loss: 0.3141 - acc: 0.878 - ETA: 7:08 - loss: 0.3136 - acc: 0.878 - ETA: 7:05 - loss: 0.3131 - acc: 0.878 - ETA: 7:03 - loss: 0.3124 - acc: 0.878 - ETA: 7:00 - loss: 0.3123 - acc: 0.878 - ETA: 6:57 - loss: 0.3121 - acc: 0.878 - ETA: 6:55 - loss: 0.3120 - acc: 0.878 - ETA: 6:52 - loss: 0.3118 - acc: 0.878 - ETA: 6:49 - loss: 0.3114 - acc: 0.878 - ETA: 6:47 - loss: 0.3113 - acc: 0.878 - ETA: 6:44 - loss: 0.3110 - acc: 0.879 - ETA: 6:41 - loss: 0.3104 - acc: 0.879 - ETA: 6:39 - loss: 0.3102 - acc: 0.879 - ETA: 6:36 - loss: 0.3100 - acc: 0.879 - ETA: 6:33 - loss: 0.3093 - acc: 0.879 - ETA: 6:31 - loss: 0.3090 - acc: 0.879 - ETA: 6:28 - loss: 0.3086 - acc: 0.880 - ETA: 6:26 - loss: 0.3081 - acc: 0.880 - ETA: 6:23 - loss: 0.3086 - acc: 0.879 - ETA: 6:21 - loss: 0.3084 - acc: 0.879 - ETA: 6:18 - loss: 0.3084 - acc: 0.879 - ETA: 6:16 - loss: 0.3081 - acc: 0.879 - ETA: 6:13 - loss: 0.3083 - acc: 0.879 - ETA: 6:11 - loss: 0.3077 - acc: 0.880 - ETA: 6:08 - loss: 0.3075 - acc: 0.880 - ETA: 6:06 - loss: 0.3070 - acc: 0.880 - ETA: 6:03 - loss: 0.3068 - acc: 0.880 - ETA: 6:01 - loss: 0.3071 - acc: 0.880 - ETA: 5:58 - loss: 0.3068 - acc: 0.880 - ETA: 5:55 - loss: 0.3070 - acc: 0.880 - ETA: 5:53 - loss: 0.3070 - acc: 0.880 - ETA: 5:51 - loss: 0.3072 - acc: 0.880 - ETA: 5:48 - loss: 0.3071 - acc: 0.880 - ETA: 5:46 - loss: 0.3068 - acc: 0.880 - ETA: 5:43 - loss: 0.3065 - acc: 0.880 - ETA: 5:41 - loss: 0.3060 - acc: 0.880 - ETA: 5:38 - loss: 0.3058 - acc: 0.880 - ETA: 5:36 - loss: 0.3056 - acc: 0.880 - ETA: 5:33 - loss: 0.3054 - acc: 0.880 - ETA: 5:31 - loss: 0.3049 - acc: 0.880 - ETA: 5:29 - loss: 0.3044 - acc: 0.881 - ETA: 5:26 - loss: 0.3040 - acc: 0.881 - ETA: 5:24 - loss: 0.3038 - acc: 0.881 - ETA: 5:21 - loss: 0.3032 - acc: 0.881 - ETA: 5:19 - loss: 0.3027 - acc: 0.881 - ETA: 5:16 - loss: 0.3029 - acc: 0.881 - ETA: 5:14 - loss: 0.3030 - acc: 0.881 - ETA: 5:11 - loss: 0.3028 - acc: 0.881 - ETA: 5:08 - loss: 0.3026 - acc: 0.881 - ETA: 5:06 - loss: 0.3024 - acc: 0.881 - ETA: 5:03 - loss: 0.3024 - acc: 0.881 - ETA: 5:01 - loss: 0.3026 - acc: 0.881 - ETA: 4:58 - loss: 0.3025 - acc: 0.881 - ETA: 4:56 - loss: 0.3025 - acc: 0.881 - ETA: 4:53 - loss: 0.3025 - acc: 0.881 - ETA: 4:51 - loss: 0.3022 - acc: 0.881 - ETA: 4:48 - loss: 0.3020 - acc: 0.881 - ETA: 4:45 - loss: 0.3019 - acc: 0.882 - ETA: 4:43 - loss: 0.3019 - acc: 0.882 - ETA: 4:40 - loss: 0.3019 - acc: 0.882 - ETA: 4:38 - loss: 0.3017 - acc: 0.882 - ETA:

4:35 - loss: 0.3016 - acc: 0.882 - ETA: 4:32 - loss: 0.3015 - acc: 0.882 - ETA: 4:30 - loss: 0.3013 - acc: 0.882 - ETA: 4:27 - loss: 0.3010 - acc: 0.882 - ETA: 4:25 - loss: 0.3011 - acc: 0.882 - ETA: 4:22 - loss: 0.3009 - acc: 0.882 - ETA: 4:20 - loss: 0.3008 - acc: 0.882 - ETA: 4:17 - loss: 0.3003 - acc: 0.882 - ETA: 4:14 - loss: 0.3003 - acc: 0.882 - ETA: 4:12 - loss: 0.2999 - acc: 0.882 - ETA: 4:09 - loss: 0.2995 - acc: 0.882 - ETA: 4:07 - loss: 0.2993 - acc: 0.882 - ETA: 4:04 - loss: 0.2991 - acc: 0.882 - ETA: 4:01 - loss: 0.2988 - acc: 0.883 - ETA: 3:59 - loss: 0.2987 - acc: 0.883 - ETA: 3:56 - loss: 0.2981 - acc: 0.883 - ETA: 3:53 - loss: 0.2981 - acc: 0.883 - ETA: 3:51 - loss: 0.2982 - acc: 0.883 - ETA: 3:48 - loss: 0.2981 - acc: 0.883 - ETA: 3:46 - loss: 0.2979 - acc: 0.883 - ETA: 3:43 - loss: 0.2979 - acc: 0.883 - ETA: 3:40 - loss: 0.2976 - acc: 0.883 - ETA: 3:38 - loss: 0.2974 - acc: 0.883 - ETA: 3:35 - loss: 0.2970 - acc: 0.883 - ETA: 3:32 - loss: 0.2968 - acc: 0.883 - ETA: 3:30 - loss: 0.2970 - acc: 0.883 - ETA: 3:27 - loss: 0.2966 - acc: 0.884 - ETA: 3:24 - loss: 0.2965 - acc: 0.884 - ETA: 3:22 - loss: 0.2965 - acc: 0.884 - ETA: 3:19 - loss: 0.2964 - acc: 0.884 - ETA: 3:16 - loss: 0.2960 - acc: 0.884 - ETA: 3:14 - loss: 0.2957 - acc: 0.884 - ETA: 3:11 - loss: 0.2951 - acc: 0.884 - ETA: 3:08 - loss: 0.2951 - acc: 0.884 - ETA: 3:06 - loss: 0.2949 - acc: 0.884 - ETA: 3:03 - loss: 0.2949 - acc: 0.884 - ETA: 3:00 - loss: 0.2952 - acc: 0.884 - ETA: 2:58 - loss: 0.2949 - acc: 0.884 - ETA: 2:55 - loss: 0.2948 - acc: 0.884 - ETA: 2:53 - loss: 0.2945 - acc: 0.884 - ETA: 2:50 - loss: 0.2940 - acc: 0.885 - ETA: 2:47 - loss: 0.2938 - acc: 0.885 - ETA: 2:45 - loss: 0.2935 - acc: 0.885 - ETA: 2:42 - loss: 0.2933 - acc: 0.885 - ETA: 2:39 - loss: 0.2931 - acc: 0.885 - ETA: 2:37 - loss: 0.2928 - acc: 0.885 - ETA: 2:34 - loss: 0.2927 - acc: 0.885 - ETA: 2:31 - loss: 0.2926 - acc: 0.885 - ETA: 2:29 - loss: 0.2925 - acc: 0.885 - ETA: 2:26 - loss: 0.2923 - acc: 0.885 - ETA: 2:23 - loss: 0.2917 - acc: 0.886 - ETA: 2:21 - loss: 0.2916 - acc: 0.886 - ETA: 2:18 - loss: 0.2911 - acc: 0.886 - ETA: 2:15 - loss: 0.2909 - acc: 0.886 - ETA: 2:13 - loss: 0.2909 - acc: 0.886 - ETA: 2:10 - loss: 0.2905 - acc: 0.886 - ETA: 2:07 - loss: 0.2904 - acc: 0.886 - ETA: 2:05 - loss: 0.2903 - acc: 0.886 - ETA: 2:02 - loss: 0.2899 - acc: 0.886 - ETA: 1:59 - loss: 0.2899 - acc: 0.886 - ETA: 1:57 - loss: 0.2897 - acc: 0.886 - ETA: 1:54 - loss: 0.2898 - acc: 0.886 - ETA: 1:51 - loss: 0.2896 - acc: 0.886 - ETA: 1:49 - loss: 0.2892 - acc: 0.887 - ETA: 1:46 - loss: 0.2889 - acc: 0.887 - ETA: 1:43 - loss: 0.2886 - acc: 0.887 - ETA: 1:41 - loss: 0.2883 - acc: 0.887 - ETA: 1:38 - loss: 0.2879 - acc: 0.887 - ETA: 1:35 - loss: 0.2878 - acc: 0.887 - ETA: 1:33 - loss:

0.2876 - acc: 0.887 - ETA: 1:30 - loss: 0.2875 - acc: 0.887 - ETA: 1:27
- loss: 0.2876 - acc: 0.887 - ETA: 1:25 - loss: 0.2872 - acc: 0.887 - E
TA: 1:22 - loss: 0.2870 - acc: 0.887 - ETA: 1:19 - loss: 0.2868 - acc:
0.887 - ETA: 1:17 - loss: 0.2868 - acc: 0.887 - ETA: 1:14 - loss: 0.286
8 - acc: 0.887 - ETA: 1:11 - loss: 0.2865 - acc: 0.888 - ETA: 1:09 - lo
ss: 0.2863 - acc: 0.888 - ETA: 1:06 - loss: 0.2864 - acc: 0.888 - ETA:
1:03 - loss: 0.2864 - acc: 0.887 - ETA: 1:01 - loss: 0.2861 - acc: 0.88
8 - ETA: 58s - loss: 0.2861 - acc: 0.888 - ETA: 55s - loss: 0.2862 - ac
c: 0.88 - ETA: 53s - loss: 0.2858 - acc: 0.88 - ETA: 50s - loss: 0.2857
- acc: 0.88 - ETA: 48s - loss: 0.2853 - acc: 0.88 - ETA: 45s - loss: 0.
2851 - acc: 0.88 - ETA: 42s - loss: 0.2852 - acc: 0.88 - ETA: 39s - los
s: 0.2848 - acc: 0.88 - ETA: 37s - loss: 0.2848 - acc: 0.88 - ETA: 34s
- loss: 0.2845 - acc: 0.88 - ETA: 31s - loss: 0.2841 - acc: 0.88 - ETA:
29s - loss: 0.2838 - acc: 0.889026800/26800 [=====
====] - ETA: 26s - loss: 0.2836 - acc: 0.88 - ETA: 23s - loss: 0.2836 -
acc: 0.88 - ETA: 21s - loss: 0.2832 - acc: 0.88 - ETA: 18s - loss: 0.28
28 - acc: 0.88 - ETA: 15s - loss: 0.2827 - acc: 0.88 - ETA: 12s - loss:
0.2825 - acc: 0.88 - ETA: 10s - loss: 0.2823 - acc: 0.88 - ETA: 7s - lo
ss: 0.2820 - acc: 0.8897 - ETA: 4s - loss: 0.2818 - acc: 0.889 - ETA: 2
s - loss: 0.2816 - acc: 0.889 - 1282s 48ms/step - loss: 0.2816 - acc:
0.8898 - val_loss: 0.2259 - val_acc: 0.9132
Epoch 2/2
13056/26800 [=====>.....] - ETA: 19:25 - loss: 0.154
4 - acc: 0.95 - ETA: 19:40 - loss: 0.1112 - acc: 0.96 - ETA: 19:43 - lo
ss: 0.1204 - acc: 0.96 - ETA: 19:38 - loss: 0.1382 - acc: 0.95 - ETA: 1
9:35 - loss: 0.1604 - acc: 0.95 - ETA: 19:33 - loss: 0.1474 - acc: 0.95
- ETA: 19:54 - loss: 0.1516 - acc: 0.94 - ETA: 19:58 - loss: 0.1508 - a
cc: 0.94 - ETA: 19:53 - loss: 0.1459 - acc: 0.94 - ETA: 19:50 - loss:
0.1500 - acc: 0.94 - ETA: 19:48 - loss: 0.1570 - acc: 0.94 - ETA: 19:51
- loss: 0.1599 - acc: 0.94 - ETA: 19:38 - loss: 0.1592 - acc: 0.94 - ET
A: 19:27 - loss: 0.1564 - acc: 0.94 - ETA: 19:17 - loss: 0.1509 - acc:
0.94 - ETA: 19:08 - loss: 0.1451 - acc: 0.94 - ETA: 19:01 - loss: 0.141
6 - acc: 0.94 - ETA: 18:54 - loss: 0.1376 - acc: 0.95 - ETA: 18:47 - lo
ss: 0.1343 - acc: 0.94 - ETA: 18:46 - loss: 0.1310 - acc: 0.95 - ETA: 1
8:39 - loss: 0.1376 - acc: 0.94 - ETA: 18:33 - loss: 0.1363 - acc: 0.94
- ETA: 18:29 - loss: 0.1356 - acc: 0.94 - ETA: 18:28 - loss: 0.1342 - a
cc: 0.94 - ETA: 18:24 - loss: 0.1371 - acc: 0.94 - ETA: 18:19 - loss:
0.1392 - acc: 0.94 - ETA: 18:15 - loss: 0.1391 - acc: 0.94 - ETA: 18:11
- loss: 0.1393 - acc: 0.94 - ETA: 18:07 - loss: 0.1370 - acc: 0.94 - ET

A: 18:02 - loss: 0.1381 - acc: 0.94 - ETA: 17:57 - loss: 0.1373 - acc: 0.95 - ETA: 17:52 - loss: 0.1393 - acc: 0.94 - ETA: 17:48 - loss: 0.1390 - acc: 0.94 - ETA: 17:43 - loss: 0.1400 - acc: 0.94 - ETA: 17:39 - loss: 0.1413 - acc: 0.94 - ETA: 17:38 - loss: 0.1423 - acc: 0.94 - ETA: 17:35 - loss: 0.1437 - acc: 0.94 - ETA: 17:32 - loss: 0.1498 - acc: 0.94 - ETA: 17:30 - loss: 0.1529 - acc: 0.94 - ETA: 17:27 - loss: 0.1505 - acc: 0.94 - ETA: 17:23 - loss: 0.1503 - acc: 0.94 - ETA: 17:19 - loss: 0.1509 - acc: 0.94 - ETA: 17:16 - loss: 0.1494 - acc: 0.94 - ETA: 17:14 - loss: 0.1492 - acc: 0.94 - ETA: 17:10 - loss: 0.1512 - acc: 0.94 - ETA: 17:06 - loss: 0.1509 - acc: 0.94 - ETA: 17:03 - loss: 0.1512 - acc: 0.94 - ETA: 16:59 - loss: 0.1520 - acc: 0.94 - ETA: 16:57 - loss: 0.1519 - acc: 0.94 - ETA: 16:53 - loss: 0.1526 - acc: 0.94 - ETA: 16:51 - loss: 0.1526 - acc: 0.94 - ETA: 16:49 - loss: 0.1528 - acc: 0.94 - ETA: 16:47 - loss: 0.1524 - acc: 0.94 - ETA: 16:47 - loss: 0.1536 - acc: 0.94 - ETA: 16:47 - loss: 0.1529 - acc: 0.94 - ETA: 16:46 - loss: 0.1524 - acc: 0.94 - ETA: 16:45 - loss: 0.1515 - acc: 0.94 - ETA: 16:42 - loss: 0.1525 - acc: 0.94 - ETA: 16:39 - loss: 0.1539 - acc: 0.94 - ETA: 16:36 - loss: 0.1555 - acc: 0.94 - ETA: 16:33 - loss: 0.1577 - acc: 0.94 - ETA: 16:30 - loss: 0.1608 - acc: 0.94 - ETA: 16:27 - loss: 0.1598 - acc: 0.94 - ETA: 16:24 - loss: 0.1606 - acc: 0.94 - ETA: 16:20 - loss: 0.1602 - acc: 0.94 - ETA: 16:17 - loss: 0.1611 - acc: 0.94 - ETA: 16:14 - loss: 0.1602 - acc: 0.94 - ETA: 16:10 - loss: 0.1594 - acc: 0.94 - ETA: 16:07 - loss: 0.1594 - acc: 0.94 - ETA: 16:03 - loss: 0.1603 - acc: 0.93 - ETA: 16:00 - loss: 0.1593 - acc: 0.94 - ETA: 15:56 - loss: 0.1596 - acc: 0.93 - ETA: 15:53 - loss: 0.1587 - acc: 0.94 - ETA: 15:50 - loss: 0.1594 - acc: 0.94 - ETA: 15:46 - loss: 0.1587 - acc: 0.94 - ETA: 15:43 - loss: 0.1615 - acc: 0.93 - ETA: 15:40 - loss: 0.1622 - acc: 0.93 - ETA: 15:37 - loss: 0.1625 - acc: 0.93 - ETA: 15:34 - loss: 0.1627 - acc: 0.93 - ETA: 15:30 - loss: 0.1618 - acc: 0.93 - ETA: 15:27 - loss: 0.1634 - acc: 0.93 - ETA: 15:24 - loss: 0.1622 - acc: 0.93 - ETA: 15:21 - loss: 0.1635 - acc: 0.93 - ETA: 15:18 - loss: 0.1638 - acc: 0.93 - ETA: 15:15 - loss: 0.1636 - acc: 0.93 - ETA: 15:12 - loss: 0.1637 - acc: 0.93 - ETA: 15:09 - loss: 0.1629 - acc: 0.93 - ETA: 15:06 - loss: 0.1639 - acc: 0.93 - ETA: 15:03 - loss: 0.1638 - acc: 0.93 - ETA: 15:00 - loss: 0.1630 - acc: 0.93 - ETA: 14:57 - loss: 0.1637 - acc: 0.93 - ETA: 14:54 - loss: 0.1633 - acc: 0.93 - ETA: 14:51 - loss: 0.1652 - acc: 0.93 - ETA: 14:48 - loss: 0.1655 - acc: 0.93 - ETA: 14:45 - loss: 0.1664 - acc: 0.93 - ETA: 14:42 - loss: 0.1665 - acc: 0.93 - ETA: 14:39 - loss: 0.1666 - acc: 0.93 - ETA: 14:36 - loss: 0.1667 - acc: 0.93 - ETA: 14:33 - loss:

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- loss: 0.1707 - acc: 0.93 - ETA: 11:41 - loss: 0.1704 - acc: 0.93 - ET
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- ETA: 11:14 - loss: 0.1741 - acc: 0.93 - ETA: 11:11 - loss: 0.1738 - a
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- loss: 0.1733 - acc: 0.93 - ETA: 10:58 - loss: 0.1735 - acc: 0.93 - ET
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- ETA: 10:35 - loss: 0.1741 - acc: 0.93 - ETA: 10:36 - loss: 0.1737 - a
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- ETA: 10:02 - loss: 0.1737 - acc: 0.93 - ETA: 9:59 - loss: 0.1734 - ac
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TA: 1:55 - loss: 0.1824 - acc: 0.931 - ETA: 1:52 - loss: 0.1822 - acc:
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TA: 1:09 - loss: 0.1826 - acc: 0.931 - ETA: 1:06 - loss: 0.1827 - acc:
0.931 - ETA: 1:03 - loss: 0.1828 - acc: 0.930 - ETA: 1:00 - loss: 0.182
6 - acc: 0.931 - ETA: 57s - loss: 0.1826 - acc: 0.931 - ETA: 54s - los
s: 0.1824 - acc: 0.93 - ETA: 51s - loss: 0.1823 - acc: 0.93 - ETA: 48s
- loss: 0.1823 - acc: 0.93 - ETA: 45s - loss: 0.1826 - acc: 0.93 - ETA:
42s - loss: 0.1825 - acc: 0.93 - ETA: 39s - loss: 0.1832 - acc: 0.93 -
ETA: 37s - loss: 0.1836 - acc: 0.93 - ETA: 34s - loss: 0.1837 - acc: 0.
93 - ETA: 31s - loss: 0.1838 - acc: 0.93 - ETA: 28s - loss: 0.1835 - ac
c: 0.930626800/26800 [=====] - ETA: 25s - los
s: 0.1834 - acc: 0.93 - ETA: 22s - loss: 0.1834 - acc: 0.93 - ETA: 19s
- loss: 0.1832 - acc: 0.93 - ETA: 16s - loss: 0.1830 - acc: 0.93 - ETA:
13s - loss: 0.1832 - acc: 0.93 - ETA: 10s - loss: 0.1830 - acc: 0.93 -
ETA: 7s - loss: 0.1830 - acc: 0.9308 - ETA: 5s - loss: 0.1831 - acc: 0.
930 - ETA: 2s - loss: 0.1830 - acc: 0.930 - 1353s 50ms/step - loss: 0.1
830 - acc: 0.9307 - val_loss: 0.2229 - val_acc: 0.9116

```

In [42]: `history=history1`

In [44]: `score = model1.evaluate(X_test, y_test, verbose=0)`
`print('Test score:', score[0])`
`print('Test accuracy:', score[1])`
`x = list(range(1,3))`
`vy = history.history['val_loss']`
`ty = history.history['loss']`

```

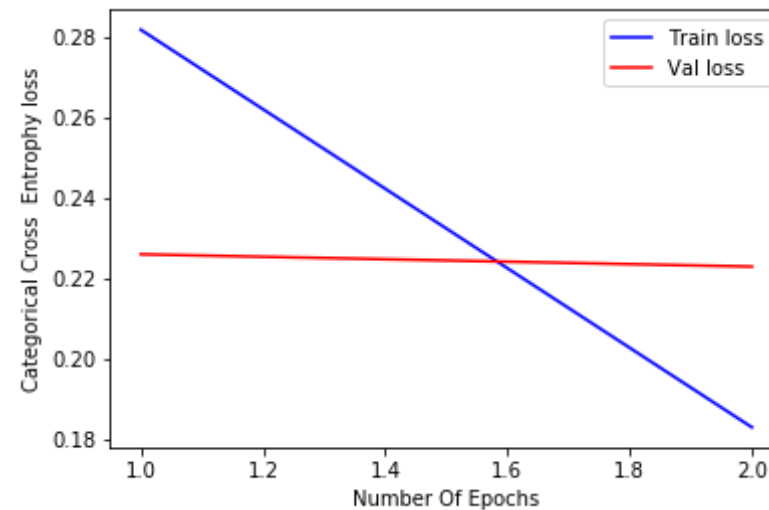
Test score: 0.2228967792202126
Test accuracy: 0.9115909090909091

```



```
In [45]: import matplotlib.pyplot as plt

plt.plot(x, ty, 'b', label= 'Train loss')
plt.plot(x, vy, 'r', label= 'Val loss')
plt.legend()
plt.xlabel("Number Of Epochs")
plt.ylabel("Categorical Cross Entrophy loss")
plt.show()
```



```
In [5]: print("Long Short Term Memory ")
from tabulate import tabulate
print(tabulate ([['LSTM(1LAYERS)(10 epochs)', 0.271, 91.19],['LSTM(2LAYERS)(2 epochs)',0.22,91.15]], headers=['LAYERS', 'TEST LOSS','TEst accuracy']))
```

Long Short Term Memory		
LAYERS	TEST LOSS	TEst accuracy
-----	-----	-----
LSTM(1LAYERS)(10 epochs)	0.271	91.19
LSTM(2LAYERS)(2 epochs)	0.22	91.15

CONCLUSION

1. I have taken top 5000 words which is frequent and index by dict by using tokenizer.
2. so now i want to replace the word by index only with top 5000 frequente words will be indexed in every row .
3. so now i do the padding because issue of batch .
4. after padding we get same length of review in each rows.
5. will define embedding layers(its vector representation of similar context) which is sit between input and LSTM layers.
6. i have taken 1 lstm layers(100 cell state)(10 epochs) with dropout ratio is 0.5 and test loss is about 0.271 and accuracy is 91.15.
7. after that i have taken 2 lstm layer (100 cell state)(2 epochs) with dropout ratio is 0.5 and test loss is 0.22 and accuracy is 91.19.
8. if we increase the lstm layers so we will get accuracy and loss better.
9. i used sigmoid activation but my loss is nan and accuracy is zero for every epochs .
10. so i am using the softmax .