Entering function \_\_main\_\_

Embedding tokens size=400001

File name 5way\_tur\_ger\_rus\_fra\_usa100K\_25-150. Total data size is 500000

Our 5 labels to index dictionary ={u'turkey': 3, u'germany': 1, u'russia': 2, u'us': 4, u'france': 0}

Our 5 index to labels dictionary ={0: u'france', 1: u'germany', 2: u'russia', 3: u'turkey', 4: u'us'}

x\_train: 405000, x\_dev: 45000, x\_test: 50000

y\_train: 405000, y\_dev: 45000, y\_test: 50000

input\_data\_x\_batch shape: (400, 150)

input\_labels\_batch shape: (400, 5)

data(after embedding) shape: (400, 150, 300)

gru\_forward\_cell units: 100

gru\_forward\_cell2 units: 100

multi\_forward\_cell: 2 cells

gru\_backward\_cell units: 100

gru\_backward\_cell2 units: 100

multi\_backward\_cell: 2 cells

---vars name and shapes---

(u'bidirectional\_rnn/fw/multi\_rnn\_cell/cell\_0/gru\_cell/gates/kernel:0', TensorShape([Dimension(400), Dimension(200)]), 80000)

(u'bidirectional\_rnn/fw/multi\_rnn\_cell/cell\_0/gru\_cell/gates/bias:0', TensorShape([Dimension(200)]), 200)

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(u'bidirectional\_rnn/fw/multi\_rnn\_cell/cell\_1/gru\_cell/candidate/kernel:0', TensorShape([Dimension(200), Dimension(100)]), 20000)

(u'bidirectional\_rnn/fw/multi\_rnn\_cell/cell\_1/gru\_cell/candidate/bias:0', TensorShape([Dimension(100)]), 100)

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(u'bidirectional\_rnn/bw/multi\_rnn\_cell/cell\_0/gru\_cell/gates/bias:0', TensorShape([Dimension(200)]), 200)

(u'bidirectional\_rnn/bw/multi\_rnn\_cell/cell\_0/gru\_cell/candidate/kernel:0', TensorShape([Dimension(400), Dimension(100)]), 40000)

(u'bidirectional\_rnn/bw/multi\_rnn\_cell/cell\_0/gru\_cell/candidate/bias:0', TensorShape([Dimension(100)]), 100)

(u'bidirectional\_rnn/bw/multi\_rnn\_cell/cell\_1/gru\_cell/gates/kernel:0', TensorShape([Dimension(200), Dimension(200)]), 40000)

(u'bidirectional\_rnn/bw/multi\_rnn\_cell/cell\_1/gru\_cell/gates/bias:0', TensorShape([Dimension(200)]), 200)

(u'bidirectional\_rnn/bw/multi\_rnn\_cell/cell\_1/gru\_cell/candidate/kernel:0', TensorShape([Dimension(200), Dimension(100)]), 20000)

(u'bidirectional\_rnn/bw/multi\_rnn\_cell/cell\_1/gru\_cell/candidate/bias:0', TensorShape([Dimension(100)]), 100)

(u'Variable:0', TensorShape([Dimension(200), Dimension(5)]), 1000)

(u'bias:0', TensorShape([Dimension(5)]), 5)

total PARAM 362,205

---done vars---

batches\_num\_train: 1012

batches\_num\_dev: 112

Epoch: 1/15 ---- best so far on epoch 0: acc=0.0000%

DEV accuracy on epoch 1/15 in train step 506 = 48.4799%

Dev loss average for this epoch is 158.9309 and average acc is 48.4799

Class turkey : (5475/8815) -> accuracy: 62.1100%

Class germany: (4181/9062) -> accuracy: 46.1377%

Class russia : (4830/8925) -> accuracy: 54.1176%

Class us : (3806/9053) -> accuracy: 42.0413%

Class france : (3427/8945) -> accuracy: 38.3119%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 1

INFO:root: Best accuracy 48.4799% at epoch 1/15 (21719/44800)

DEV accuracy on epoch 1/15 in train step 1009 = 51.2321%

Dev loss average for this epoch is 60.8328 and average acc is 51.2321

Class turkey : (5350/8815) -> accuracy: 60.6920%

Class germany: (3289/9062) -> accuracy: 36.2944%

Class russia : (5673/8925) -> accuracy: 63.5630%

Class us : (4428/9053) -> accuracy: 48.9120%

Class france : (4212/8945) -> accuracy: 47.0878%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 1

INFO:root: Best accuracy 51.2321% at epoch 1/15 (22952/44800)

Epoch run time: 00:16:53

Train average loss for this epoch is 182.3754 and average acc is 42.6235

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Epoch: 2/15 ---- best so far on epoch 1: acc=51.2321%

DEV accuracy on epoch 2/15 in train step 506 = 53.0491%

Dev loss average for this epoch is 21.0655 and average acc is 53.0491

Class turkey : (5748/8815) -> accuracy: 65.2070%

Class germany: (4635/9062) -> accuracy: 51.1476%

Class russia : (5304/8925) -> accuracy: 59.4286%

Class us : (4762/9053) -> accuracy: 52.6013%

Class france : (3317/8945) -> accuracy: 37.0822%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 2

INFO:root: Best accuracy 53.0491% at epoch 2/15 (23766/44800)

DEV accuracy on epoch 2/15 in train step 1009 = 53.4777%

Dev loss average for this epoch is 6.8606 and average acc is 53.4777

Class turkey : (5501/8815) -> accuracy: 62.4050%

Class germany: (3546/9062) -> accuracy: 39.1304%

Class russia : (6050/8925) -> accuracy: 67.7871%

Class us : (4554/9053) -> accuracy: 50.3038%

Class france : (4307/8945) -> accuracy: 48.1498%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 2

INFO:root: Best accuracy 53.4777% at epoch 2/15 (23958/44800)

Epoch run time: 00:16:46

Train average loss for this epoch is 25.2434 and average acc is 53.1087

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Epoch: 3/15 ---- best so far on epoch 2: acc=53.4777%

DEV accuracy on epoch 3/15 in train step 506 = 54.2768%

Dev loss average for this epoch is 2.4624 and average acc is 54.2768

Class turkey : (5826/8815) -> accuracy: 66.0919%

Class germany: (4123/9062) -> accuracy: 45.4977%

Class russia : (5553/8925) -> accuracy: 62.2185%

Class us : (5268/9053) -> accuracy: 58.1907%

Class france : (3546/8945) -> accuracy: 39.6423%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 3

INFO:root: Best accuracy 54.2768% at epoch 3/15 (24316/44800)

DEV accuracy on epoch 3/15 in train step 1009 = 54.7277%

Dev loss average for this epoch is 1.4531 and average acc is 54.7277

Class turkey : (5676/8815) -> accuracy: 64.3902%

Class germany: (3734/9062) -> accuracy: 41.2050%

Class russia : (5503/8925) -> accuracy: 61.6583%

Class us : (5169/9053) -> accuracy: 57.0971%

Class france : (4436/8945) -> accuracy: 49.5920%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 3

INFO:root: Best accuracy 54.7277% at epoch 3/15 (24518/44800)

Epoch run time: 00:16:57

Train average loss for this epoch is 2.9974 and average acc is 55.0546

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Epoch: 4/15 ---- best so far on epoch 3: acc=54.7277%

DEV accuracy on epoch 4/15 in train step 506 = 54.8214%

Dev loss average for this epoch is 1.2833 and average acc is 54.8214

Class turkey : (6278/8815) -> accuracy: 71.2195%

Class germany: (3990/9062) -> accuracy: 44.0300%

Class russia : (5408/8925) -> accuracy: 60.5938%

Class us : (5173/9053) -> accuracy: 57.1413%

Class france : (3711/8945) -> accuracy: 41.4869%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 4

INFO:root: Best accuracy 54.8214% at epoch 4/15 (24560/44800)

DEV accuracy on epoch 4/15 in train step 1009 = 55.2478%

Dev loss average for this epoch is 1.2543 and average acc is 55.2478

Class turkey : (5930/8815) -> accuracy: 67.2717%

Class germany: (3790/9062) -> accuracy: 41.8230%

Class russia : (5307/8925) -> accuracy: 59.4622%

Class us : (5113/9053) -> accuracy: 56.4785%

Class france : (4611/8945) -> accuracy: 51.5484%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 4

INFO:root: Best accuracy 55.2478% at epoch 4/15 (24751/44800)

Epoch run time: 00:19:34

Train average loss for this epoch is 1.2824 and average acc is 56.4578

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Epoch: 5/15 ---- best so far on epoch 4: acc=55.2478%

DEV accuracy on epoch 5/15 in train step 506 = 55.5960%

Dev loss average for this epoch is 1.2503 and average acc is 55.5960

Class turkey : (5986/8815) -> accuracy: 67.9070%

Class germany: (4279/9062) -> accuracy: 47.2192%

Class russia : (5842/8925) -> accuracy: 65.4566%

Class us : (5258/9053) -> accuracy: 58.0802%

Class france : (3542/8945) -> accuracy: 39.5975%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 5

INFO:root: Best accuracy 55.5960% at epoch 5/15 (24907/44800)

DEV accuracy on epoch 5/15 in train step 1009 = 55.4911%

Dev loss average for this epoch is 1.2511 and average acc is 55.4911

Class turkey : (5961/8815) -> accuracy: 67.6234%

Class germany: (3962/9062) -> accuracy: 43.7210%

Class russia : (4931/8925) -> accuracy: 55.2493%

Class us : (5450/9053) -> accuracy: 60.2010%

Class france : (4556/8945) -> accuracy: 50.9335%

Epoch run time: 00:17:04

Train average loss for this epoch is 1.2187 and average acc is 57.6114

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Epoch: 6/15 ---- best so far on epoch 5: acc=55.5960%

DEV accuracy on epoch 6/15 in train step 506 = 55.8906%

Dev loss average for this epoch is 1.2438 and average acc is 55.8906

Class turkey : (6121/8815) -> accuracy: 69.4385%

Class germany: (4709/9062) -> accuracy: 51.9642%

Class russia : (6006/8925) -> accuracy: 67.2941%

Class us : (4367/9053) -> accuracy: 48.2382%

Class france : (3836/8945) -> accuracy: 42.8843%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 6

INFO:root: Best accuracy 55.8906% at epoch 6/15 (25039/44800)

DEV accuracy on epoch 6/15 in train step 1009 = 56.2768%

Dev loss average for this epoch is 1.2435 and average acc is 56.2768

Class turkey : (6008/8815) -> accuracy: 68.1566%

Class germany: (4531/9062) -> accuracy: 50.0000%

Class russia : (5137/8925) -> accuracy: 57.5574%

Class us : (5273/9053) -> accuracy: 58.2459%

Class france : (4263/8945) -> accuracy: 47.6579%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 6

INFO:root: Best accuracy 56.2768% at epoch 6/15 (25212/44800)

Epoch run time: 00:17:37

Train average loss for this epoch is 1.2022 and average acc is 58.5620

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Epoch: 7/15 ---- best so far on epoch 6: acc=56.2768%

DEV accuracy on epoch 7/15 in train step 506 = 55.8103%

Dev loss average for this epoch is 1.2505 and average acc is 55.8103

Class turkey : (5892/8815) -> accuracy: 66.8406%

Class germany: (4694/9062) -> accuracy: 51.7987%

Class russia : (6406/8925) -> accuracy: 71.7759%

Class us : (3860/9053) -> accuracy: 42.6378%

Class france : (4151/8945) -> accuracy: 46.4058%

DEV accuracy on epoch 7/15 in train step 1009 = 56.3772%

Dev loss average for this epoch is 1.2407 and average acc is 56.3772

Class turkey : (5966/8815) -> accuracy: 67.6801%

Class germany: (4808/9062) -> accuracy: 53.0567%

Class russia : (5410/8925) -> accuracy: 60.6162%

Class us : (5322/9053) -> accuracy: 58.7871%

Class france : (3751/8945) -> accuracy: 41.9340%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 7

INFO:root: Best accuracy 56.3772% at epoch 7/15 (25257/44800)

Epoch run time: 00:17:09

Train average loss for this epoch is 1.1886 and average acc is 59.3567

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Epoch: 8/15 ---- best so far on epoch 7: acc=56.3772%

DEV accuracy on epoch 8/15 in train step 506 = 56.3594%

Dev loss average for this epoch is 1.2417 and average acc is 56.3594

Class turkey : (6142/8815) -> accuracy: 69.6767%

Class germany: (4980/9062) -> accuracy: 54.9548%

Class russia : (5614/8925) -> accuracy: 62.9020%

Class us : (4363/9053) -> accuracy: 48.1940%

Class france : (4150/8945) -> accuracy: 46.3946%

DEV accuracy on epoch 8/15 in train step 1009 = 56.2746%

Dev loss average for this epoch is 1.2477 and average acc is 56.2746

Class turkey : (6007/8815) -> accuracy: 68.1452%

Class germany: (5307/9062) -> accuracy: 58.5632%

Class russia : (5494/8925) -> accuracy: 61.5574%

Class us : (5018/9053) -> accuracy: 55.4291%

Class france : (3385/8945) -> accuracy: 37.8424%

Epoch run time: 00:16:38

Train average loss for this epoch is 1.1769 and average acc is 60.0776

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Epoch: 9/15 ---- best so far on epoch 7: acc=56.3772%

DEV accuracy on epoch 9/15 in train step 506 = 56.4531%

Dev loss average for this epoch is 1.2451 and average acc is 56.4531

Class turkey : (6092/8815) -> accuracy: 69.1095%

Class germany: (4969/9062) -> accuracy: 54.8334%

Class russia : (5870/8925) -> accuracy: 65.7703%

Class us : (4607/9053) -> accuracy: 50.8892%

Class france : (3753/8945) -> accuracy: 41.9564%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 9

INFO:root: Best accuracy 56.4531% at epoch 9/15 (25291/44800)

DEV accuracy on epoch 9/15 in train step 1009 = 56.3594%

Dev loss average for this epoch is 1.2475 and average acc is 56.3594

Class turkey : (5912/8815) -> accuracy: 67.0675%

Class germany: (5357/9062) -> accuracy: 59.1150%

Class russia : (5316/8925) -> accuracy: 59.5630%

Class us : (5055/9053) -> accuracy: 55.8378%

Class france : (3609/8945) -> accuracy: 40.3466%

Epoch run time: 00:16:50

Train average loss for this epoch is 1.1661 and average acc is 60.8076

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Epoch: 10/15 ---- best so far on epoch 9: acc=56.4531%

DEV accuracy on epoch 10/15 in train step 506 = 56.3281%

Dev loss average for this epoch is 1.2501 and average acc is 56.3281

Class turkey : (5793/8815) -> accuracy: 65.7175%

Class germany: (5204/9062) -> accuracy: 57.4266%

Class russia : (5225/8925) -> accuracy: 58.5434%

Class us : (4767/9053) -> accuracy: 52.6566%

Class france : (4246/8945) -> accuracy: 47.4679%

DEV accuracy on epoch 10/15 in train step 1009 = 56.4241%

Dev loss average for this epoch is 1.2530 and average acc is 56.4241

Class turkey : (5931/8815) -> accuracy: 67.2830%

Class germany: (5118/9062) -> accuracy: 56.4776%

Class russia : (5481/8925) -> accuracy: 61.4118%

Class us : (4926/9053) -> accuracy: 54.4129%

Class france : (3822/8945) -> accuracy: 42.7278%

Epoch run time: 00:16:37

Train average loss for this epoch is 1.1571 and average acc is 61.3454

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Epoch: 11/15 ---- best so far on epoch 9: acc=56.4531%

DEV accuracy on epoch 11/15 in train step 506 = 55.8705%

Dev loss average for this epoch is 1.2548 and average acc is 55.8705

Class turkey : (5716/8815) -> accuracy: 64.8440%

Class germany: (4638/9062) -> accuracy: 51.1808%

Class russia : (5221/8925) -> accuracy: 58.4986%

Class us : (4359/9053) -> accuracy: 48.1498%

Class france : (5096/8945) -> accuracy: 56.9704%

DEV accuracy on epoch 11/15 in train step 1009 = 56.3705%

Dev loss average for this epoch is 1.2524 and average acc is 56.3705

Class turkey : (5662/8815) -> accuracy: 64.2314%

Class germany: (4877/9062) -> accuracy: 53.8181%

Class russia : (5444/8925) -> accuracy: 60.9972%

Class us : (4845/9053) -> accuracy: 53.5182%

Class france : (4426/8945) -> accuracy: 49.4802%

Epoch run time: 00:16:37

Train average loss for this epoch is 1.1484 and average acc is 61.9553

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Epoch: 12/15 ---- best so far on epoch 9: acc=56.4531%

DEV accuracy on epoch 12/15 in train step 506 = 56.0424%

Dev loss average for this epoch is 1.2600 and average acc is 56.0424

Class turkey : (6161/8815) -> accuracy: 69.8922%

Class germany: (4568/9062) -> accuracy: 50.4083%

Class russia : (5005/8925) -> accuracy: 56.0784%

Class us : (5047/9053) -> accuracy: 55.7495%

Class france : (4326/8945) -> accuracy: 48.3622%

DEV accuracy on epoch 12/15 in train step 1009 = 56.3862%

Dev loss average for this epoch is 1.2563 and average acc is 56.3862

Class turkey : (5624/8815) -> accuracy: 63.8003%

Class germany: (4786/9062) -> accuracy: 52.8139%

Class russia : (5408/8925) -> accuracy: 60.5938%

Class us : (5031/9053) -> accuracy: 55.5727%

Class france : (4412/8945) -> accuracy: 49.3236%

Epoch run time: 00:16:37

Train average loss for this epoch is 1.1405 and average acc is 62.4849

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Epoch: 13/15 ---- best so far on epoch 9: acc=56.4531%

DEV accuracy on epoch 13/15 in train step 506 = 56.0960%

Dev loss average for this epoch is 1.2637 and average acc is 56.0960

Class turkey : (6129/8815) -> accuracy: 69.5292%

Class germany: (4323/9062) -> accuracy: 47.7047%

Class russia : (5440/8925) -> accuracy: 60.9524%

Class us : (4775/9053) -> accuracy: 52.7449%

Class france : (4464/8945) -> accuracy: 49.9050%

DEV accuracy on epoch 13/15 in train step 1009 = 56.1696%

Dev loss average for this epoch is 1.2595 and average acc is 56.1696

Class turkey : (5503/8815) -> accuracy: 62.4277%

Class germany: (4491/9062) -> accuracy: 49.5586%

Class russia : (5795/8925) -> accuracy: 64.9300%

Class us : (4928/9053) -> accuracy: 54.4350%

Class france : (4447/8945) -> accuracy: 49.7149%

Epoch run time: 00:16:37

Train average loss for this epoch is 1.1320 and average acc is 62.9822

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Epoch: 14/15 ---- best so far on epoch 9: acc=56.4531%

DEV accuracy on epoch 14/15 in train step 506 = 56.2388%

Dev loss average for this epoch is 1.2668 and average acc is 56.2388

Class turkey : (5991/8815) -> accuracy: 67.9637%

Class germany: (4340/9062) -> accuracy: 47.8923%

Class russia : (5441/8925) -> accuracy: 60.9636%

Class us : (5042/9053) -> accuracy: 55.6942%

Class france : (4381/8945) -> accuracy: 48.9771%

DEV accuracy on epoch 14/15 in train step 1009 = 55.9754%

Dev loss average for this epoch is 1.2639 and average acc is 55.9754

Class turkey : (5534/8815) -> accuracy: 62.7794%

Class germany: (4219/9062) -> accuracy: 46.5571%

Class russia : (5639/8925) -> accuracy: 63.1821%

Class us : (4906/9053) -> accuracy: 54.1920%

Class france : (4779/8945) -> accuracy: 53.4265%

Epoch run time: 00:16:30

Train average loss for this epoch is 1.1253 and average acc is 63.4259

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Epoch: 15/15 ---- best so far on epoch 9: acc=56.4531%

DEV accuracy on epoch 15/15 in train step 506 = 56.1317%

Dev loss average for this epoch is 1.2681 and average acc is 56.1317

Class turkey : (5778/8815) -> accuracy: 65.5474%

Class germany: (4455/9062) -> accuracy: 49.1613%

Class russia : (5597/8925) -> accuracy: 62.7115%

Class us : (5160/9053) -> accuracy: 56.9977%

Class france : (4157/8945) -> accuracy: 46.4729%

DEV accuracy on epoch 15/15 in train step 1009 = 55.8393%

Dev loss average for this epoch is 1.2672 and average acc is 55.8393

Class turkey : (5519/8815) -> accuracy: 62.6092%

Class germany: (4651/9062) -> accuracy: 51.3242%

Class russia : (5420/8925) -> accuracy: 60.7283%

Class us : (4610/9053) -> accuracy: 50.9223%

Class france : (4816/8945) -> accuracy: 53.8401%

Epoch run time: 00:16:19

Train average loss for this epoch is 1.1181 and average acc is 63.8864

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\*\*\*Training is complete. Best accuracy 56.4531% at epoch 9/15

\*\*\*Testing...

INFO:tensorflow:Restoring parameters from ../model\_temp/model.ckpt

INFO:tensorflow:Restoring parameters from ../model\_temp/model.ckpt

Test loss average for this epoch is 1.2492 and average acc is 56.3860

Accuracy on test set - (28193/50000) -> accuracy: 56.3860%

Class turkey : (6908/10060) -> accuracy: 68.6680%

Class germany: (5509/9954) -> accuracy: 55.3446%

Class russia : (6618/10057) -> accuracy: 65.8049%

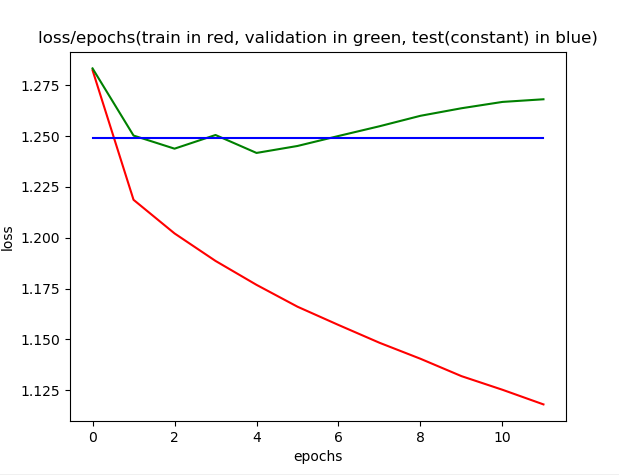
Class us : (5039/9949) -> accuracy: 50.6483%

Class france : (4119/9980) -> accuracy: 41.2725%

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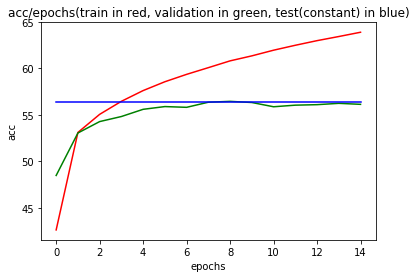
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 [42.62351766964899, 53.10869559410061, 55.054594938580706, 56.45775690144701, 57.61141294665016, 58.562005832496844, 59.35671939680227, 60.077569206712745, 60.8075592180957, 61.34535577221821, 61.955286544773415, 62.48493077373316, 62.982213326358035, 63.425889222518265, 63.88636345684293]

[48.479910514184404, 53.04910716201577, 54.27678568022591, 54.821428443704335, 55.59598202151912, 55.89062481054238, 55.810267797538216, 56.35937500212874, 56.453124912721776, 56.32812476583889, 55.87053559720516, 56.04241048651082, 56.09598197042942, 56.23883913670268, 56.131696381739204]

[56.385999870300296, 56.385999870300296, 56.385999870300296, 56.385999870300296, 56.385999870300296, 56.385999870300296, 56.385999870300296, 56.385999870300296, 56.385999870300296, 56.385999870300296, 56.385999870300296, 56.385999870300296, 56.385999870300296, 56.385999870300296, 56.385999870300296]

End summary ----------------------

data:

DATA\_FILE\_PATH is ../input/5way\_tur\_ger\_rus\_fra\_usa100K\_25-150.txt

MINIMUM\_ROW\_LENGTH is 25

MAXIMUM\_ROW\_LENGTH is 150

COUNT\_WORD is 20

lines\_per\_class is 100000

number of classes is 5

Total data size is 500000

embedding:

EMB\_FILE\_PATH ../input/glove.6B.300d.txt

EMB\_DIM 300

EMB\_WORDS\_COUNT 400001

run config:

EPOCHS 15

evaluating on dev data 2 times per epoch

KEEP\_PROB 0.8

BATCH\_SIZE 400

LSTM\_HIDDEN\_UNITS 100

LSTM\_CELL\_TYPE GRU

optimizer is adamOptimizer - learn rate: 0.001

model:

USE\_TMP\_FOLDER True

mdl\_path ../model\_temp/model.ckpt

results:

best training acc at epoch=9 is 56.4531

testing acc 56.3860

Time(HH:MM:SS): 04:17:56

Leaving function \_\_main\_\_