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: (200, 150)

input\_labels\_batch shape: (200, 5)

data(after embedding) shape: (200, 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'Variable:0', TensorShape([Dimension(200), Dimension(150), Dimension(300)]), 9000000)

(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)

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

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

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

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

(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)

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

(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\_1:0', TensorShape([Dimension(200), Dimension(5)]), 1000)

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

total PARAM 9,362,205

---done vars---

batches\_num\_train: 2025

batches\_num\_dev: 225

Epoch: 1/25 ---- best so far on epoch 0: acc=0.0000%

DEV accuracy on epoch 1/25 in train step 1012 = 49.0533%

Dev loss average for this epoch is 50.3464145237 and average acc is 49.053333203

Class turkey : (4524/9035) -> accuracy: 50.0719%

Class germany: (3661/8866) -> accuracy: 41.2926%

Class russia : (6083/9013) -> accuracy: 67.4914%

Class us : (4538/8952) -> accuracy: 50.6926%

Class france : (3268/9134) -> accuracy: 35.7784%

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

INFO:root: Best accuracy 49.0533% at epoch 1/25 (22074/45000)

DEV accuracy on epoch 1/25 in train step 2022 = 51.6222%

Dev loss average for this epoch is 5.43868882073 and average acc is 51.6222220527

Class turkey : (5368/9035) -> accuracy: 59.4134%

Class germany: (4583/8866) -> accuracy: 51.6919%

Class russia : (5256/9013) -> accuracy: 58.3158%

Class us : (3169/8952) -> accuracy: 35.3999%

Class france : (4854/9134) -> accuracy: 53.1421%

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

INFO:root: Best accuracy 51.6222% at epoch 1/25 (23230/45000)

Epoch run time: 00:29:01

Train average loss for this epoch is 90.882511543 and average acc is 42.1565430989

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Epoch: 2/25 ---- best so far on epoch 1: acc=51.6222%

DEV accuracy on epoch 2/25 in train step 1012 = 53.2133%

Dev loss average for this epoch is 1.41372735447 and average acc is 53.2133331299

Class turkey : (5592/9035) -> accuracy: 61.8926%

Class germany: (4171/8866) -> accuracy: 47.0449%

Class russia : (6388/9013) -> accuracy: 70.8754%

Class us : (4288/8952) -> accuracy: 47.8999%

Class france : (3507/9134) -> accuracy: 38.3950%

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

INFO:root: Best accuracy 53.2133% at epoch 2/25 (23946/45000)

DEV accuracy on epoch 2/25 in train step 2022 = 53.6089%

Dev loss average for this epoch is 1.27875813007 and average acc is 53.6088889043

Class turkey : (6100/9035) -> accuracy: 67.5152%

Class germany: (4009/8866) -> accuracy: 45.2177%

Class russia : (6102/9013) -> accuracy: 67.7022%

Class us : (3308/8952) -> accuracy: 36.9526%

Class france : (4605/9134) -> accuracy: 50.4160%

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

INFO:root: Best accuracy 53.6089% at epoch 2/25 (24124/45000)

Epoch run time: 00:28:37

Train average loss for this epoch is 1.9291769889 and average acc is 53.5283949596

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Epoch: 3/25 ---- best so far on epoch 2: acc=53.6089%

DEV accuracy on epoch 3/25 in train step 1012 = 54.5022%

Dev loss average for this epoch is 1.26624511719 and average acc is 54.5022220347

Class turkey : (5781/9035) -> accuracy: 63.9845%

Class germany: (4036/8866) -> accuracy: 45.5222%

Class russia : (6315/9013) -> accuracy: 70.0655%

Class us : (4590/8952) -> accuracy: 51.2735%

Class france : (3804/9134) -> accuracy: 41.6466%

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

INFO:root: Best accuracy 54.5022% at epoch 3/25 (24526/45000)

DEV accuracy on epoch 3/25 in train step 2022 = 54.3889%

Dev loss average for this epoch is 1.26227118121 and average acc is 54.3888885048

Class turkey : (6063/9035) -> accuracy: 67.1057%

Class germany: (4504/8866) -> accuracy: 50.8008%

Class russia : (6072/9013) -> accuracy: 67.3694%

Class us : (3097/8952) -> accuracy: 34.5956%

Class france : (4739/9134) -> accuracy: 51.8831%

Epoch run time: 00:28:34

Train average loss for this epoch is 1.2542964983 and average acc is 55.5607407446

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Epoch: 4/25 ---- best so far on epoch 3: acc=54.5022%

DEV accuracy on epoch 4/25 in train step 1012 = 55.2289%

Dev loss average for this epoch is 1.25681077056 and average acc is 55.2288886309

Class turkey : (5939/9035) -> accuracy: 65.7333%

Class germany: (4370/8866) -> accuracy: 49.2894%

Class russia : (6317/9013) -> accuracy: 70.0877%

Class us : (3990/8952) -> accuracy: 44.5710%

Class france : (4237/9134) -> accuracy: 46.3871%

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

INFO:root: Best accuracy 55.2289% at epoch 4/25 (24853/45000)

DEV accuracy on epoch 4/25 in train step 2022 = 54.9756%

Dev loss average for this epoch is 1.25646845447 and average acc is 54.9755556583

Class turkey : (6176/9035) -> accuracy: 68.3564%

Class germany: (4334/8866) -> accuracy: 48.8834%

Class russia : (5929/9013) -> accuracy: 65.7828%

Class us : (3290/8952) -> accuracy: 36.7516%

Class france : (5010/9134) -> accuracy: 54.8500%

Epoch run time: 00:28:34

Train average loss for this epoch is 1.22759576173 and average acc is 57.1306172698

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Epoch: 5/25 ---- best so far on epoch 4: acc=55.2289%

DEV accuracy on epoch 5/25 in train step 1012 = 55.7311%

Dev loss average for this epoch is 1.24770647897 and average acc is 55.7311109702

Class turkey : (6193/9035) -> accuracy: 68.5445%

Class germany: (4528/8866) -> accuracy: 51.0715%

Class russia : (5945/9013) -> accuracy: 65.9603%

Class us : (4228/8952) -> accuracy: 47.2297%

Class france : (4185/9134) -> accuracy: 45.8178%

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

INFO:root: Best accuracy 55.7311% at epoch 5/25 (25079/45000)

DEV accuracy on epoch 5/25 in train step 2022 = 55.0156%

Dev loss average for this epoch is 1.26277781275 and average acc is 55.0155553685

Class turkey : (6295/9035) -> accuracy: 69.6735%

Class germany: (4527/8866) -> accuracy: 51.0602%

Class russia : (6120/9013) -> accuracy: 67.9019%

Class us : (3143/8952) -> accuracy: 35.1095%

Class france : (4672/9134) -> accuracy: 51.1496%

Epoch run time: 00:28:33

Train average loss for this epoch is 1.20775848677 and average acc is 58.4622222553

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Epoch: 6/25 ---- best so far on epoch 5: acc=55.7311%

DEV accuracy on epoch 6/25 in train step 1012 = 55.9089%

Dev loss average for this epoch is 1.24971904437 and average acc is 55.908888936

Class turkey : (5716/9035) -> accuracy: 63.2651%

Class germany: (4506/8866) -> accuracy: 50.8234%

Class russia : (6039/9013) -> accuracy: 67.0032%

Class us : (4465/8952) -> accuracy: 49.8771%

Class france : (4433/9134) -> accuracy: 48.5330%

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

INFO:root: Best accuracy 55.9089% at epoch 6/25 (25159/45000)

DEV accuracy on epoch 6/25 in train step 2022 = 55.6556%

Dev loss average for this epoch is 1.25136679384 and average acc is 55.6555556456

Class turkey : (6330/9035) -> accuracy: 70.0609%

Class germany: (4420/8866) -> accuracy: 49.8534%

Class russia : (5986/9013) -> accuracy: 66.4152%

Class us : (3849/8952) -> accuracy: 42.9960%

Class france : (4460/9134) -> accuracy: 48.8286%

Epoch run time: 00:28:33

Train average loss for this epoch is 1.1901079199 and average acc is 59.5898766356

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Epoch: 7/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 7/25 in train step 1012 = 55.6978%

Dev loss average for this epoch is 1.25315633721 and average acc is 55.6977776554

Class turkey : (5615/9035) -> accuracy: 62.1472%

Class germany: (4525/8866) -> accuracy: 51.0377%

Class russia : (5852/9013) -> accuracy: 64.9284%

Class us : (4278/8952) -> accuracy: 47.7882%

Class france : (4794/9134) -> accuracy: 52.4852%

DEV accuracy on epoch 7/25 in train step 2022 = 55.8044%

Dev loss average for this epoch is 1.25093372133 and average acc is 55.804444419

Class turkey : (6188/9035) -> accuracy: 68.4892%

Class germany: (4350/8866) -> accuracy: 49.0638%

Class russia : (5825/9013) -> accuracy: 64.6289%

Class us : (3834/8952) -> accuracy: 42.8284%

Class france : (4915/9134) -> accuracy: 53.8099%

Epoch run time: 00:28:30

Train average loss for this epoch is 1.17627892503 and average acc is 60.5607407682

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Epoch: 8/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 8/25 in train step 1012 = 55.5867%

Dev loss average for this epoch is 1.2565447855 and average acc is 55.5866665575

Class turkey : (5771/9035) -> accuracy: 63.8738%

Class germany: (4518/8866) -> accuracy: 50.9587%

Class russia : (5596/9013) -> accuracy: 62.0881%

Class us : (4535/8952) -> accuracy: 50.6591%

Class france : (4594/9134) -> accuracy: 50.2956%

DEV accuracy on epoch 8/25 in train step 2022 = 55.8267%

Dev loss average for this epoch is 1.24913618353 and average acc is 55.8266665008

Class turkey : (6071/9035) -> accuracy: 67.1942%

Class germany: (4425/8866) -> accuracy: 49.9098%

Class russia : (5491/9013) -> accuracy: 60.9231%

Class us : (4411/8952) -> accuracy: 49.2739%

Class france : (4724/9134) -> accuracy: 51.7189%

Epoch run time: 00:28:30

Train average loss for this epoch is 1.16399664835 and average acc is 61.3446914164

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Epoch: 9/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 9/25 in train step 1012 = 55.3800%

Dev loss average for this epoch is 1.26350366433 and average acc is 55.3799998363

Class turkey : (5645/9035) -> accuracy: 62.4792%

Class germany: (4295/8866) -> accuracy: 48.4435%

Class russia : (5642/9013) -> accuracy: 62.5985%

Class us : (4382/8952) -> accuracy: 48.9500%

Class france : (4957/9134) -> accuracy: 54.2698%

DEV accuracy on epoch 9/25 in train step 2022 = 55.6644%

Dev loss average for this epoch is 1.25296822336 and average acc is 55.664444632

Class turkey : (5889/9035) -> accuracy: 65.1799%

Class germany: (4287/8866) -> accuracy: 48.3533%

Class russia : (5440/9013) -> accuracy: 60.3573%

Class us : (4460/8952) -> accuracy: 49.8213%

Class france : (4973/9134) -> accuracy: 54.4449%

Epoch run time: 00:28:31

Train average loss for this epoch is 1.15190483853 and average acc is 62.1367901313

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Epoch: 10/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 10/25 in train step 1012 = 55.4244%

Dev loss average for this epoch is 1.2670547337 and average acc is 55.4244443973

Class turkey : (5601/9035) -> accuracy: 61.9923%

Class germany: (4670/8866) -> accuracy: 52.6731%

Class russia : (5559/9013) -> accuracy: 61.6776%

Class us : (4246/8952) -> accuracy: 47.4307%

Class france : (4865/9134) -> accuracy: 53.2625%

DEV accuracy on epoch 10/25 in train step 2022 = 55.4867%

Dev loss average for this epoch is 1.26118536843 and average acc is 55.4866666132

Class turkey : (5871/9035) -> accuracy: 64.9806%

Class germany: (4495/8866) -> accuracy: 50.6993%

Class russia : (5552/9013) -> accuracy: 61.5999%

Class us : (4101/8952) -> accuracy: 45.8110%

Class france : (4950/9134) -> accuracy: 54.1931%

Epoch run time: 00:28:32

Train average loss for this epoch is 1.14281821277 and average acc is 62.8303703909

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Epoch: 11/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 11/25 in train step 1012 = 55.4756%

Dev loss average for this epoch is 1.26980061531 and average acc is 55.4755556186

Class turkey : (5793/9035) -> accuracy: 64.1173%

Class germany: (4612/8866) -> accuracy: 52.0189%

Class russia : (5704/9013) -> accuracy: 63.2864%

Class us : (4170/8952) -> accuracy: 46.5818%

Class france : (4685/9134) -> accuracy: 51.2919%

DEV accuracy on epoch 11/25 in train step 2022 = 55.5178%

Dev loss average for this epoch is 1.26292502509 and average acc is 55.5177777608

Class turkey : (5609/9035) -> accuracy: 62.0808%

Class germany: (4767/8866) -> accuracy: 53.7672%

Class russia : (5530/9013) -> accuracy: 61.3558%

Class us : (4471/8952) -> accuracy: 49.9441%

Class france : (4606/9134) -> accuracy: 50.4270%

Epoch run time: 00:28:31

Train average loss for this epoch is 1.1336738144 and average acc is 63.3962962215

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Epoch: 12/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 12/25 in train step 1012 = 55.2667%

Dev loss average for this epoch is 1.27180419816 and average acc is 55.266666664

Class turkey : (5564/9035) -> accuracy: 61.5827%

Class germany: (4401/8866) -> accuracy: 49.6391%

Class russia : (5776/9013) -> accuracy: 64.0852%

Class us : (4583/8952) -> accuracy: 51.1953%

Class france : (4546/9134) -> accuracy: 49.7701%

DEV accuracy on epoch 12/25 in train step 2022 = 55.4778%

Dev loss average for this epoch is 1.26371800582 and average acc is 55.477777693

Class turkey : (5645/9035) -> accuracy: 62.4792%

Class germany: (4829/8866) -> accuracy: 54.4665%

Class russia : (5402/9013) -> accuracy: 59.9356%

Class us : (4452/8952) -> accuracy: 49.7319%

Class france : (4637/9134) -> accuracy: 50.7664%

Epoch run time: 00:28:30

Train average loss for this epoch is 1.12529830129 and average acc is 63.9837037104

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Epoch: 13/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 13/25 in train step 1012 = 55.1533%

Dev loss average for this epoch is 1.27376716508 and average acc is 55.1533332401

Class turkey : (5715/9035) -> accuracy: 63.2540%

Class germany: (4048/8866) -> accuracy: 45.6576%

Class russia : (5756/9013) -> accuracy: 63.8633%

Class us : (5177/8952) -> accuracy: 57.8307%

Class france : (4123/9134) -> accuracy: 45.1390%

DEV accuracy on epoch 13/25 in train step 2022 = 55.3978%

Dev loss average for this epoch is 1.26834701326 and average acc is 55.3977775176

Class turkey : (5401/9035) -> accuracy: 59.7786%

Class germany: (4808/8866) -> accuracy: 54.2296%

Class russia : (5413/9013) -> accuracy: 60.0577%

Class us : (4754/8952) -> accuracy: 53.1055%

Class france : (4553/9134) -> accuracy: 49.8467%

Epoch run time: 00:28:30

Train average loss for this epoch is 1.11778521102 and average acc is 64.4661727893

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Epoch: 14/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 14/25 in train step 1012 = 55.3244%

Dev loss average for this epoch is 1.27748738713 and average acc is 55.3244444264

Class turkey : (5949/9035) -> accuracy: 65.8439%

Class germany: (4275/8866) -> accuracy: 48.2179%

Class russia : (5750/9013) -> accuracy: 63.7967%

Class us : (4646/8952) -> accuracy: 51.8990%

Class france : (4276/9134) -> accuracy: 46.8141%

DEV accuracy on epoch 14/25 in train step 2022 = 55.1222%

Dev loss average for this epoch is 1.27496007125 and average acc is 55.1222222514

Class turkey : (5433/9035) -> accuracy: 60.1328%

Class germany: (4798/8866) -> accuracy: 54.1169%

Class russia : (5422/9013) -> accuracy: 60.1576%

Class us : (4418/8952) -> accuracy: 49.3521%

Class france : (4734/9134) -> accuracy: 51.8283%

Epoch run time: 00:28:31

Train average loss for this epoch is 1.11140098457 and average acc is 64.9138271073

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Epoch: 15/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 15/25 in train step 1012 = 55.1311%

Dev loss average for this epoch is 1.27781036271 and average acc is 55.1311108669

Class turkey : (5646/9035) -> accuracy: 62.4903%

Class germany: (4431/8866) -> accuracy: 49.9774%

Class russia : (5952/9013) -> accuracy: 66.0379%

Class us : (4460/8952) -> accuracy: 49.8213%

Class france : (4320/9134) -> accuracy: 47.2958%

DEV accuracy on epoch 15/25 in train step 2022 = 55.2978%

Dev loss average for this epoch is 1.27458230072 and average acc is 55.29777756

Class turkey : (5657/9035) -> accuracy: 62.6121%

Class germany: (4530/8866) -> accuracy: 51.0941%

Class russia : (5592/9013) -> accuracy: 62.0437%

Class us : (4311/8952) -> accuracy: 48.1568%

Class france : (4794/9134) -> accuracy: 52.4852%

Epoch run time: 00:28:30

Train average loss for this epoch is 1.10522979259 and average acc is 65.3209875866

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Epoch: 16/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 16/25 in train step 1012 = 55.0422%

Dev loss average for this epoch is 1.28649415334 and average acc is 55.0422222217

Class turkey : (5928/9035) -> accuracy: 65.6115%

Class germany: (4258/8866) -> accuracy: 48.0262%

Class russia : (5860/9013) -> accuracy: 65.0172%

Class us : (4661/8952) -> accuracy: 52.0666%

Class france : (4062/9134) -> accuracy: 44.4712%

DEV accuracy on epoch 16/25 in train step 2022 = 55.0933%

Dev loss average for this epoch is 1.27823945628 and average acc is 55.09333339

Class turkey : (5729/9035) -> accuracy: 63.4090%

Class germany: (4506/8866) -> accuracy: 50.8234%

Class russia : (5379/9013) -> accuracy: 59.6805%

Class us : (4519/8952) -> accuracy: 50.4803%

Class france : (4659/9134) -> accuracy: 51.0072%

Epoch run time: 00:28:30

Train average loss for this epoch is 1.10030875612 and average acc is 65.6330863458

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Epoch: 17/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 17/25 in train step 1012 = 55.0200%

Dev loss average for this epoch is 1.28400406943 and average acc is 55.0199999147

Class turkey : (5787/9035) -> accuracy: 64.0509%

Class germany: (4307/8866) -> accuracy: 48.5788%

Class russia : (5823/9013) -> accuracy: 64.6067%

Class us : (4529/8952) -> accuracy: 50.5920%

Class france : (4313/9134) -> accuracy: 47.2192%

DEV accuracy on epoch 17/25 in train step 2022 = 55.0956%

Dev loss average for this epoch is 1.27794384585 and average acc is 55.0955555969

Class turkey : (5602/9035) -> accuracy: 62.0033%

Class germany: (4628/8866) -> accuracy: 52.1994%

Class russia : (5407/9013) -> accuracy: 59.9911%

Class us : (4625/8952) -> accuracy: 51.6644%

Class france : (4531/9134) -> accuracy: 49.6059%

Epoch run time: 00:28:32

Train average loss for this epoch is 1.09538259324 and average acc is 65.9466666616

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Epoch: 18/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 18/25 in train step 1012 = 54.7311%

Dev loss average for this epoch is 1.29781130897 and average acc is 54.7311109702

Class turkey : (5868/9035) -> accuracy: 64.9474%

Class germany: (4430/8866) -> accuracy: 49.9662%

Class russia : (6092/9013) -> accuracy: 67.5913%

Class us : (4342/8952) -> accuracy: 48.5031%

Class france : (3897/9134) -> accuracy: 42.6648%

DEV accuracy on epoch 18/25 in train step 2022 = 54.8489%

Dev loss average for this epoch is 1.28423850377 and average acc is 54.8488887151

Class turkey : (5536/9035) -> accuracy: 61.2728%

Class germany: (4494/8866) -> accuracy: 50.6880%

Class russia : (5725/9013) -> accuracy: 63.5194%

Class us : (4573/8952) -> accuracy: 51.0836%

Class france : (4354/9134) -> accuracy: 47.6681%

Epoch run time: 00:28:30

Train average loss for this epoch is 1.08993518091 and average acc is 66.3716048341

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Epoch: 19/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 19/25 in train step 1012 = 54.7933%

Dev loss average for this epoch is 1.29302720812 and average acc is 54.793333292

Class turkey : (5737/9035) -> accuracy: 63.4975%

Class germany: (4850/8866) -> accuracy: 54.7034%

Class russia : (5899/9013) -> accuracy: 65.4499%

Class us : (4005/8952) -> accuracy: 44.7386%

Class france : (4166/9134) -> accuracy: 45.6098%

DEV accuracy on epoch 19/25 in train step 2022 = 55.0200%

Dev loss average for this epoch is 1.28821456697 and average acc is 55.0199999279

Class turkey : (5499/9035) -> accuracy: 60.8633%

Class germany: (4662/8866) -> accuracy: 52.5829%

Class russia : (5685/9013) -> accuracy: 63.0756%

Class us : (4589/8952) -> accuracy: 51.2623%

Class france : (4324/9134) -> accuracy: 47.3396%

Epoch run time: 00:28:30

Train average loss for this epoch is 1.08526969807 and average acc is 66.6419752763

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Epoch: 20/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 20/25 in train step 1012 = 54.7511%

Dev loss average for this epoch is 1.29674259345 and average acc is 54.7511110438

Class turkey : (5780/9035) -> accuracy: 63.9734%

Class germany: (4834/8866) -> accuracy: 54.5229%

Class russia : (5845/9013) -> accuracy: 64.8508%

Class us : (4345/8952) -> accuracy: 48.5366%

Class france : (3834/9134) -> accuracy: 41.9750%

DEV accuracy on epoch 20/25 in train step 2022 = 54.8089%

Dev loss average for this epoch is 1.28688249323 and average acc is 54.808888899

Class turkey : (5604/9035) -> accuracy: 62.0255%

Class germany: (4585/8866) -> accuracy: 51.7144%

Class russia : (5538/9013) -> accuracy: 61.4446%

Class us : (4745/8952) -> accuracy: 53.0049%

Class france : (4192/9134) -> accuracy: 45.8945%

Epoch run time: 00:28:31

Train average loss for this epoch is 1.08152652829 and average acc is 66.9318518138

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Epoch: 21/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 21/25 in train step 1012 = 54.6467%

Dev loss average for this epoch is 1.30162226836 and average acc is 54.6466666328

Class turkey : (5514/9035) -> accuracy: 61.0293%

Class germany: (4576/8866) -> accuracy: 51.6129%

Class russia : (5958/9013) -> accuracy: 66.1045%

Class us : (4492/8952) -> accuracy: 50.1787%

Class france : (4051/9134) -> accuracy: 44.3508%

DEV accuracy on epoch 21/25 in train step 2022 = 54.8400%

Dev loss average for this epoch is 1.29191492028 and average acc is 54.8400000201

Class turkey : (5796/9035) -> accuracy: 64.1505%

Class germany: (4444/8866) -> accuracy: 50.1241%

Class russia : (5630/9013) -> accuracy: 62.4653%

Class us : (4447/8952) -> accuracy: 49.6761%

Class france : (4361/9134) -> accuracy: 47.7447%

Epoch run time: 00:28:31

Train average loss for this epoch is 1.0770620646 and average acc is 67.2012344849

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Epoch: 22/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 22/25 in train step 1012 = 54.6933%

Dev loss average for this epoch is 1.31081433296 and average acc is 54.6933335198

Class turkey : (5667/9035) -> accuracy: 62.7227%

Class germany: (4686/8866) -> accuracy: 52.8536%

Class russia : (5886/9013) -> accuracy: 65.3057%

Class us : (4286/8952) -> accuracy: 47.8776%

Class france : (4087/9134) -> accuracy: 44.7449%

DEV accuracy on epoch 22/25 in train step 2022 = 54.6622%

Dev loss average for this epoch is 1.29771689309 and average acc is 54.6622222794

Class turkey : (5602/9035) -> accuracy: 62.0033%

Class germany: (4678/8866) -> accuracy: 52.7634%

Class russia : (5651/9013) -> accuracy: 62.6983%

Class us : (4420/8952) -> accuracy: 49.3744%

Class france : (4247/9134) -> accuracy: 46.4966%

Epoch run time: 00:28:29

Train average loss for this epoch is 1.07380758556 and average acc is 67.439753035

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Epoch: 23/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 23/25 in train step 1012 = 54.4067%

Dev loss average for this epoch is 1.31420395268 and average acc is 54.4066666365

Class turkey : (5510/9035) -> accuracy: 60.9851%

Class germany: (5037/8866) -> accuracy: 56.8125%

Class russia : (6074/9013) -> accuracy: 67.3915%

Class us : (3875/8952) -> accuracy: 43.2864%

Class france : (3987/9134) -> accuracy: 43.6501%

DEV accuracy on epoch 23/25 in train step 2022 = 54.5400%

Dev loss average for this epoch is 1.29663996273 and average acc is 54.5399997764

Class turkey : (5764/9035) -> accuracy: 63.7963%

Class germany: (4908/8866) -> accuracy: 55.3575%

Class russia : (5420/9013) -> accuracy: 60.1354%

Class us : (4224/8952) -> accuracy: 47.1850%

Class france : (4227/9134) -> accuracy: 46.2776%

Epoch run time: 00:28:30

Train average loss for this epoch is 1.06931129141 and average acc is 67.7770370907

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Epoch: 24/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 24/25 in train step 1012 = 54.4711%

Dev loss average for this epoch is 1.30983214961 and average acc is 54.4711111387

Class turkey : (5493/9035) -> accuracy: 60.7969%

Class germany: (4803/8866) -> accuracy: 54.1732%

Class russia : (5937/9013) -> accuracy: 65.8715%

Class us : (4234/8952) -> accuracy: 47.2967%

Class france : (4045/9134) -> accuracy: 44.2851%

DEV accuracy on epoch 24/25 in train step 2022 = 54.3067%

Dev loss average for this epoch is 1.30387179746 and average acc is 54.3066667716

Class turkey : (5542/9035) -> accuracy: 61.3392%

Class germany: (4895/8866) -> accuracy: 55.2109%

Class russia : (5637/9013) -> accuracy: 62.5430%

Class us : (4209/8952) -> accuracy: 47.0174%

Class france : (4155/9134) -> accuracy: 45.4894%

Epoch run time: 00:28:32

Train average loss for this epoch is 1.06736072258 and average acc is 67.8856789565

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Epoch: 25/25 ---- best so far on epoch 6: acc=55.9089%

DEV accuracy on epoch 25/25 in train step 1012 = 54.4044%

Dev loss average for this epoch is 1.31269683944 and average acc is 54.4044442839

Class turkey : (5639/9035) -> accuracy: 62.4128%

Class germany: (4526/8866) -> accuracy: 51.0490%

Class russia : (6093/9013) -> accuracy: 67.6024%

Class us : (4361/8952) -> accuracy: 48.7154%

Class france : (3863/9134) -> accuracy: 42.2925%

DEV accuracy on epoch 25/25 in train step 2022 = 54.4800%

Dev loss average for this epoch is 1.30871845828 and average acc is 54.4800000721

Class turkey : (5659/9035) -> accuracy: 62.6342%

Class germany: (4638/8866) -> accuracy: 52.3122%

Class russia : (5640/9013) -> accuracy: 62.5763%

Class us : (4297/8952) -> accuracy: 48.0004%

Class france : (4282/9134) -> accuracy: 46.8798%

Epoch run time: 00:28:32

Train average loss for this epoch is 1.06237212858 and average acc is 68.1550617041

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\*\*\*Training is complete. Best accuracy 55.9089% at epoch 6/25

\*\*\*Testing...

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

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

Accuracy on test set - (28086/50000) -> accuracy: 56.1720%

Class turkey : (6326/9990) -> accuracy: 63.3233%

Class germany: (5008/9927) -> accuracy: 50.4483%

Class russia : (6804/10105) -> accuracy: 67.3330%

Class us : (5061/9935) -> accuracy: 50.9411%

Class france : (4887/10043) -> accuracy: 48.6608%

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 25

evaluating on dev data 2 times per epoch

KEEP\_PROB 0.5

BATCH\_SIZE 200

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=6 is 55.9089

testing acc 56.1720

Time(HH:MM:SS): 11:57:21

Leaving function \_\_main\_\_