Entering function \_\_main\_\_

Embedding tokens size=400001

File name 2way\_rus\_usa\_v2\_25-150. Total data size is 100000

Our 2 labels to index dictionary ={u'russia': 0, u'us': 1}

Our 2 index to labels dictionary ={0: u'russia', 1: u'us'}

x\_train: 81000, x\_dev: 9000, x\_test: 10000

y\_train: 81000, y\_dev: 9000, y\_test: 10000

input\_data\_x\_batch shape: (100, 150)

input\_labels\_batch shape: (100, 2)

gru\_forward\_cell units: 64

gru\_backward\_cell units: 64

Epoch: 1/20 ---- best so far on epoch 0: acc=0.0000%

DEV accuracy on epoch 1/20 in train step 0 = 50.2444%

Class russia: (4518/4525) -> accuracy: 99.8453%

Class us : (4/4475) -> accuracy: 0.0894%

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

INFO:root: Best accuracy 50.2444% at epoch 1/20 (4522/9000)

DEV accuracy on epoch 1/20 in train step 405 = 50.3000%

Class russia: (4524/4525) -> accuracy: 99.9779%

Class us : (3/4475) -> accuracy: 0.0670%

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

INFO:root: Best accuracy 50.3000% at epoch 1/20 (4527/9000)

DEV accuracy on epoch 1/20 in train step 809 = 49.7222%

Class russia: (0/4525) -> accuracy: 0.0000%

Class us : (4475/4475) -> accuracy: 100.0000%

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Epoch: 2/20 ---- best so far on epoch 1: acc=50.3000%

DEV accuracy on epoch 2/20 in train step 0 = 49.7222%

Class russia: (0/4525) -> accuracy: 0.0000%

Class us : (4475/4475) -> accuracy: 100.0000%

DEV accuracy on epoch 2/20 in train step 405 = 50.2889%

Class russia: (4525/4525) -> accuracy: 100.0000%

Class us : (1/4475) -> accuracy: 0.0223%

DEV accuracy on epoch 2/20 in train step 809 = 52.4667%

Class russia: (344/4525) -> accuracy: 7.6022%

Class us : (4378/4475) -> accuracy: 97.8324%

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

INFO:root: Best accuracy 52.4667% at epoch 2/20 (4722/9000)

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Epoch: 3/20 ---- best so far on epoch 2: acc=52.4667%

DEV accuracy on epoch 3/20 in train step 0 = 51.3444%

Class russia: (192/4525) -> accuracy: 4.2431%

Class us : (4429/4475) -> accuracy: 98.9721%

DEV accuracy on epoch 3/20 in train step 405 = 73.7778%

Class russia: (3434/4525) -> accuracy: 75.8895%

Class us : (3206/4475) -> accuracy: 71.6425%

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

INFO:root: Best accuracy 73.7778% at epoch 3/20 (6640/9000)

DEV accuracy on epoch 3/20 in train step 809 = 75.4444%

Class russia: (3155/4525) -> accuracy: 69.7238%

Class us : (3635/4475) -> accuracy: 81.2291%

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

INFO:root: Best accuracy 75.4444% at epoch 3/20 (6790/9000)

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Epoch: 4/20 ---- best so far on epoch 3: acc=75.4444%

DEV accuracy on epoch 4/20 in train step 0 = 75.3889%

Class russia: (3196/4525) -> accuracy: 70.6298%

Class us : (3589/4475) -> accuracy: 80.2011%

DEV accuracy on epoch 4/20 in train step 405 = 76.3111%

Class russia: (3379/4525) -> accuracy: 74.6740%

Class us : (3489/4475) -> accuracy: 77.9665%

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

INFO:root: Best accuracy 76.3111% at epoch 4/20 (6868/9000)

DEV accuracy on epoch 4/20 in train step 809 = 76.6333%

Class russia: (3237/4525) -> accuracy: 71.5359%

Class us : (3660/4475) -> accuracy: 81.7877%

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

INFO:root: Best accuracy 76.6333% at epoch 4/20 (6897/9000)

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Epoch: 5/20 ---- best so far on epoch 4: acc=76.6333%

DEV accuracy on epoch 5/20 in train step 0 = 76.8444%

Class russia: (3297/4525) -> accuracy: 72.8619%

Class us : (3619/4475) -> accuracy: 80.8715%

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

INFO:root: Best accuracy 76.8444% at epoch 5/20 (6916/9000)

DEV accuracy on epoch 5/20 in train step 405 = 77.2333%

Class russia: (3442/4525) -> accuracy: 76.0663%

Class us : (3509/4475) -> accuracy: 78.4134%

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

INFO:root: Best accuracy 77.2333% at epoch 5/20 (6951/9000)

DEV accuracy on epoch 5/20 in train step 809 = 77.4889%

Class russia: (3328/4525) -> accuracy: 73.5470%

Class us : (3646/4475) -> accuracy: 81.4749%

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

INFO:root: Best accuracy 77.4889% at epoch 5/20 (6974/9000)

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Epoch: 6/20 ---- best so far on epoch 5: acc=77.4889%

DEV accuracy on epoch 6/20 in train step 0 = 77.5333%

Class russia: (3327/4525) -> accuracy: 73.5249%

Class us : (3651/4475) -> accuracy: 81.5866%

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

INFO:root: Best accuracy 77.5333% at epoch 6/20 (6978/9000)

DEV accuracy on epoch 6/20 in train step 405 = 77.7111%

Class russia: (3403/4525) -> accuracy: 75.2044%

Class us : (3591/4475) -> accuracy: 80.2458%

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

INFO:root: Best accuracy 77.7111% at epoch 6/20 (6994/9000)

DEV accuracy on epoch 6/20 in train step 809 = 77.7667%

Class russia: (3331/4525) -> accuracy: 73.6133%

Class us : (3668/4475) -> accuracy: 81.9665%

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

INFO:root: Best accuracy 77.7667% at epoch 6/20 (6999/9000)

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Epoch: 7/20 ---- best so far on epoch 6: acc=77.7667%

DEV accuracy on epoch 7/20 in train step 0 = 77.7889%

Class russia: (3336/4525) -> accuracy: 73.7238%

Class us : (3665/4475) -> accuracy: 81.8994%

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

INFO:root: Best accuracy 77.7889% at epoch 7/20 (7001/9000)

DEV accuracy on epoch 7/20 in train step 405 = 78.0333%

Class russia: (3519/4525) -> accuracy: 77.7680%

Class us : (3504/4475) -> accuracy: 78.3017%

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

INFO:root: Best accuracy 78.0333% at epoch 7/20 (7023/9000)

DEV accuracy on epoch 7/20 in train step 809 = 78.2000%

Class russia: (3425/4525) -> accuracy: 75.6906%

Class us : (3613/4475) -> accuracy: 80.7374%

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

INFO:root: Best accuracy 78.2000% at epoch 7/20 (7038/9000)

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Epoch: 8/20 ---- best so far on epoch 7: acc=78.2000%

DEV accuracy on epoch 8/20 in train step 0 = 78.2889%

Class russia: (3387/4525) -> accuracy: 74.8508%

Class us : (3659/4475) -> accuracy: 81.7654%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 8

INFO:root: Best accuracy 78.2889% at epoch 8/20 (7046/9000)

DEV accuracy on epoch 8/20 in train step 405 = 78.3889%

Class russia: (3493/4525) -> accuracy: 77.1934%

Class us : (3562/4475) -> accuracy: 79.5978%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 8

INFO:root: Best accuracy 78.3889% at epoch 8/20 (7055/9000)

DEV accuracy on epoch 8/20 in train step 809 = 78.3000%

Class russia: (3382/4525) -> accuracy: 74.7403%

Class us : (3665/4475) -> accuracy: 81.8994%

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Epoch: 9/20 ---- best so far on epoch 8: acc=78.3889%

DEV accuracy on epoch 9/20 in train step 0 = 78.2111%

Class russia: (3393/4525) -> accuracy: 74.9834%

Class us : (3646/4475) -> accuracy: 81.4749%

DEV accuracy on epoch 9/20 in train step 405 = 78.3556%

Class russia: (3632/4525) -> accuracy: 80.2652%

Class us : (3420/4475) -> accuracy: 76.4246%

DEV accuracy on epoch 9/20 in train step 809 = 78.5333%

Class russia: (3433/4525) -> accuracy: 75.8674%

Class us : (3635/4475) -> accuracy: 81.2291%

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

INFO:root: Best accuracy 78.5333% at epoch 9/20 (7068/9000)

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Epoch: 10/20 ---- best so far on epoch 9: acc=78.5333%

DEV accuracy on epoch 10/20 in train step 0 = 78.5556%

Class russia: (3456/4525) -> accuracy: 76.3757%

Class us : (3614/4475) -> accuracy: 80.7598%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 10

INFO:root: Best accuracy 78.5556% at epoch 10/20 (7070/9000)

DEV accuracy on epoch 10/20 in train step 405 = 78.6444%

Class russia: (3554/4525) -> accuracy: 78.5414%

Class us : (3524/4475) -> accuracy: 78.7486%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 10

INFO:root: Best accuracy 78.6444% at epoch 10/20 (7078/9000)

DEV accuracy on epoch 10/20 in train step 809 = 78.7667%

Class russia: (3485/4525) -> accuracy: 77.0166%

Class us : (3604/4475) -> accuracy: 80.5363%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 10

INFO:root: Best accuracy 78.7667% at epoch 10/20 (7089/9000)

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Epoch: 11/20 ---- best so far on epoch 10: acc=78.7667%

DEV accuracy on epoch 11/20 in train step 0 = 78.8667%

Class russia: (3532/4525) -> accuracy: 78.0552%

Class us : (3566/4475) -> accuracy: 79.6872%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 11

INFO:root: Best accuracy 78.8667% at epoch 11/20 (7098/9000)

DEV accuracy on epoch 11/20 in train step 405 = 78.4333%

Class russia: (3613/4525) -> accuracy: 79.8453%

Class us : (3446/4475) -> accuracy: 77.0056%

DEV accuracy on epoch 11/20 in train step 809 = 78.7889%

Class russia: (3525/4525) -> accuracy: 77.9006%

Class us : (3566/4475) -> accuracy: 79.6872%

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Epoch: 12/20 ---- best so far on epoch 11: acc=78.8667%

DEV accuracy on epoch 12/20 in train step 0 = 78.9444%

Class russia: (3572/4525) -> accuracy: 78.9392%

Class us : (3533/4475) -> accuracy: 78.9497%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 12

INFO:root: Best accuracy 78.9444% at epoch 12/20 (7105/9000)

DEV accuracy on epoch 12/20 in train step 405 = 78.4667%

Class russia: (3536/4525) -> accuracy: 78.1436%

Class us : (3526/4475) -> accuracy: 78.7933%

DEV accuracy on epoch 12/20 in train step 809 = 78.7889%

Class russia: (3452/4525) -> accuracy: 76.2873%

Class us : (3639/4475) -> accuracy: 81.3184%

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Epoch: 13/20 ---- best so far on epoch 12: acc=78.9444%

DEV accuracy on epoch 13/20 in train step 0 = 79.0333%

Class russia: (3499/4525) -> accuracy: 77.3260%

Class us : (3614/4475) -> accuracy: 80.7598%

INFO:root: Saved model ../model\_temp/model.ckpt at epoch 13

INFO:root: Best accuracy 79.0333% at epoch 13/20 (7113/9000)

DEV accuracy on epoch 13/20 in train step 405 = 78.3111%

Class russia: (3619/4525) -> accuracy: 79.9779%

Class us : (3429/4475) -> accuracy: 76.6257%

DEV accuracy on epoch 13/20 in train step 809 = 78.9444%

Class russia: (3464/4525) -> accuracy: 76.5525%

Class us : (3641/4475) -> accuracy: 81.3631%

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Epoch: 14/20 ---- best so far on epoch 13: acc=79.0333%

DEV accuracy on epoch 14/20 in train step 0 = 78.9556%

Class russia: (3493/4525) -> accuracy: 77.1934%

Class us : (3613/4475) -> accuracy: 80.7374%

DEV accuracy on epoch 14/20 in train step 405 = 78.4556%

Class russia: (3525/4525) -> accuracy: 77.9006%

Class us : (3536/4475) -> accuracy: 79.0168%

DEV accuracy on epoch 14/20 in train step 809 = 78.7889%

Class russia: (3525/4525) -> accuracy: 77.9006%

Class us : (3566/4475) -> accuracy: 79.6872%

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Epoch: 15/20 ---- best so far on epoch 13: acc=79.0333%

DEV accuracy on epoch 15/20 in train step 0 = 78.8556%

Class russia: (3557/4525) -> accuracy: 78.6077%

Class us : (3540/4475) -> accuracy: 79.1061%

DEV accuracy on epoch 15/20 in train step 405 = 78.7111%

Class russia: (3528/4525) -> accuracy: 77.9669%

Class us : (3556/4475) -> accuracy: 79.4637%

DEV accuracy on epoch 15/20 in train step 809 = 78.8556%

Class russia: (3490/4525) -> accuracy: 77.1271%

Class us : (3607/4475) -> accuracy: 80.6034%

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Epoch: 16/20 ---- best so far on epoch 13: acc=79.0333%

DEV accuracy on epoch 16/20 in train step 0 = 78.7889%

Class russia: (3520/4525) -> accuracy: 77.7901%

Class us : (3571/4475) -> accuracy: 79.7989%

DEV accuracy on epoch 16/20 in train step 405 = 78.5444%

Class russia: (3514/4525) -> accuracy: 77.6575%

Class us : (3555/4475) -> accuracy: 79.4413%

DEV accuracy on epoch 16/20 in train step 809 = 78.3667%

Class russia: (3609/4525) -> accuracy: 79.7569%

Class us : (3444/4475) -> accuracy: 76.9609%

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Epoch: 17/20 ---- best so far on epoch 13: acc=79.0333%

DEV accuracy on epoch 17/20 in train step 0 = 78.3222%

Class russia: (3632/4525) -> accuracy: 80.2652%

Class us : (3417/4475) -> accuracy: 76.3575%

DEV accuracy on epoch 17/20 in train step 405 = 78.5333%

Class russia: (3517/4525) -> accuracy: 77.7238%

Class us : (3551/4475) -> accuracy: 79.3520%

DEV accuracy on epoch 17/20 in train step 809 = 78.5889%

Class russia: (3510/4525) -> accuracy: 77.5691%

Class us : (3563/4475) -> accuracy: 79.6201%

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Epoch: 18/20 ---- best so far on epoch 13: acc=79.0333%

DEV accuracy on epoch 18/20 in train step 0 = 78.5778%

Class russia: (3542/4525) -> accuracy: 78.2762%

Class us : (3530/4475) -> accuracy: 78.8827%

DEV accuracy on epoch 18/20 in train step 405 = 78.4000%

Class russia: (3506/4525) -> accuracy: 77.4807%

Class us : (3550/4475) -> accuracy: 79.3296%

DEV accuracy on epoch 18/20 in train step 809 = 78.2333%

Class russia: (3558/4525) -> accuracy: 78.6298%

Class us : (3483/4475) -> accuracy: 77.8324%

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Epoch: 19/20 ---- best so far on epoch 13: acc=79.0333%

DEV accuracy on epoch 19/20 in train step 0 = 78.2444%

Class russia: (3600/4525) -> accuracy: 79.5580%

Class us : (3442/4475) -> accuracy: 76.9162%

DEV accuracy on epoch 19/20 in train step 405 = 77.9222%

Class russia: (3464/4525) -> accuracy: 76.5525%

Class us : (3549/4475) -> accuracy: 79.3073%

DEV accuracy on epoch 19/20 in train step 809 = 78.2444%

Class russia: (3540/4525) -> accuracy: 78.2320%

Class us : (3502/4475) -> accuracy: 78.2570%

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Epoch: 20/20 ---- best so far on epoch 13: acc=79.0333%

DEV accuracy on epoch 20/20 in train step 0 = 78.3333%

Class russia: (3583/4525) -> accuracy: 79.1823%

Class us : (3467/4475) -> accuracy: 77.4749%

DEV accuracy on epoch 20/20 in train step 405 = 77.8333%

Class russia: (3513/4525) -> accuracy: 77.6354%

Class us : (3492/4475) -> accuracy: 78.0335%

DEV accuracy on epoch 20/20 in train step 809 = 77.9556%

Class russia: (3528/4525) -> accuracy: 77.9669%

Class us : (3488/4475) -> accuracy: 77.9441%

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\*\*\*Training is complete. Best accuracy 79.0333% at epoch 13/20

\*\*\*Testing...

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

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

Accuracy on test set - (7875/10000) -> accuracy: 78.7500%

Class russia: (3816/4979) -> accuracy: 76.6419%

Class us : (4059/5021) -> accuracy: 80.8405%

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

data:

DATA\_FILE\_PATH is ../input/2way\_rus\_usa\_v2\_25-150.txt

MINIMUM\_ROW\_LENGTH is 25

MAXIMUM\_ROW\_LENGTH is 150

COUNT\_WORD is 20

lines\_per\_class is 50000

number of classes is 2

Total data size is 100000

embedding:

EMB\_FILE\_PATH ../input/glove.6B.50d.txt

EMB\_DIM 50

EMB\_WORDS\_COUNT 400001

run config:

EPOCHS 20

BATCH\_SIZE 100

evaluating on dev data 3 times per epoch

KEEP\_PROB 0.5

BATCH\_SIZE 100

LSTM\_HIDDEN\_UNITS 64

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 79.0333333333

testing acc 78.75

Time(HH:MM:SS): 01:37:43

Leaving function \_\_main\_\_