Source: github.com/prdwb/attentive_history_selection Scripts

- cqa_run_his_atten.py. Entry code.
- cqa supports.py. Utility functions.
- cqa gen batches.py. Generate batches.
- cqa model.py. Our models.
- scorer.py. Official evaluation script for QuAC.

More useful shit:

link to Huggingface Medium article on TF -> PyTorch:

https://medium.com/huggingface/from-tensorflow-to-pytorch-265f40ef2a28

Maybe to start:

study cga run his atten.py script and start from there; this is the main code

FIRST STEP: get the stuff from cqa_supports up and running

To re-implement in PyTorch:

- cqa run his atten.py
 - main script
- cqa flags.py
 - o can just use opt.argparse in the main script, cqa run his atten.py
- cqa gen batches.py
 - generates batches (no duh)
 - o train batches: cqa_gen_example_aware_batches_v2
 - this is the only function that cqa_run_his_atten.py uses ?
- cqa_model.py
 - the models
 - used functions:
 - bert_rep 1
 - bert_segment_rep 1
 - cqa model 0
 - aux cqa model 0
 - yesno model 0
 - followup_model 0
 - history_attention_net 1
 - disable history attention net 0
 - fine_grained_history_attention_net 1
- cqa_supports.py
 - o contains the "convert_examples_to_features" function, which I have seen before elsewhere
 - transformers/examples/utils_*.py /
 - what does 'reformulated question' refer to?????
 - rewrite:
 - ▶ convert_examples_to_example_variations
 - ▶ convert_examples_to_features

▶ convert examples to variations and then features

Can reuse PyTorch script:

- modeling.py
 - we can import all of this stuff from pytorch
 - BertConfig
 - BertModel
 - scripts:
 - modeling bert.py
 - configuration bert.py
 - configuration utils.py
 - modeling.BertConfig
 - if FLAGS.init checkpoint:
 - ► (assignment_map, initialized_variable_names) = modeling.get_assigment_map_from_checkpoint(tvars, FLAGS.init_checkpoint)
 - tf.train.init_from_checkpoint(FLAGS.init_checkpoint, assignment_map)
 - seq length = modeling.get shape list(input ids)[1]
- optimization.py
 - this just uses Adam? I think we can just import Adam in PyTorch....
- reindent.pv
 - this doesn't even matter...?
- scorer.py
 - only uses 'external call' function
 - val eval res = external call(val file json, output prediction file)
 - some sort of standard scoring file
- tokenization.py
 - tokenizer = tokenization.FullTokenizer(vocab_file=FLAGS.vocab_file, do_lower_case=FLAGS.do_lower_case)
 - Pretty sure we can just import the bert tokenizer from PyTorch

Calendar:

- Done with coding/model by 19 March (paper due 30 March)
- Week 1: cqa support.py script running which includes the convert to features... functions
- Week 2: cqa_gen_batches.py (228 lines) + !!! SET UP GITHUB !!! + cqa_model.py
- Week 3: cqa_model.py getting the encoder working (BERT + PosHAE)
- Week 4: cqa_model.py get the encoder working (BERT + PosHAE) + adding cqa_flags.py added to cqa run his atten.py
- Week 5:
- Week 6:
- Week 7:
- Week 8:
- Week 9: