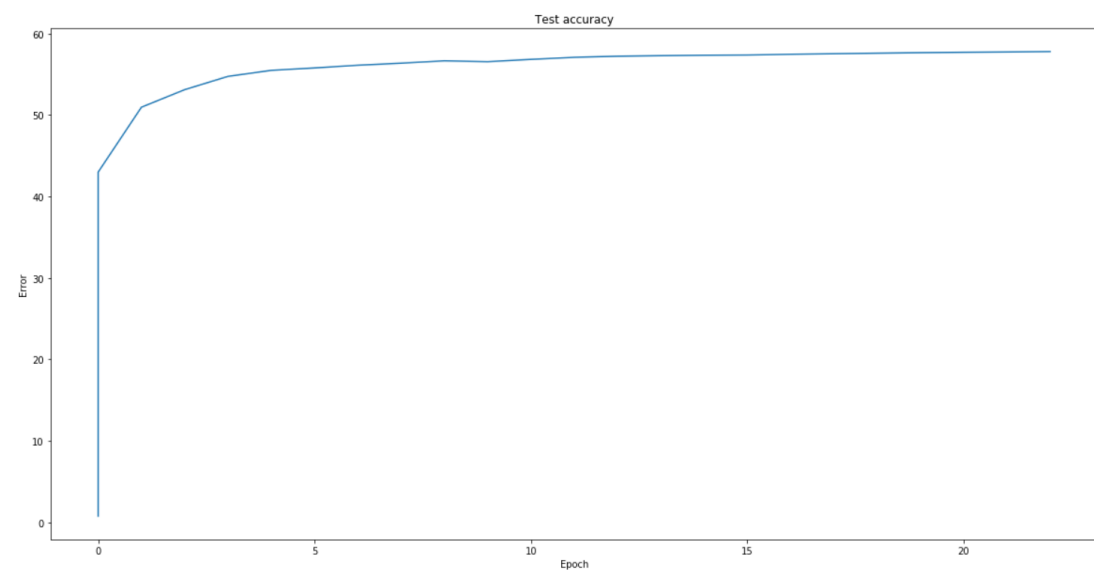
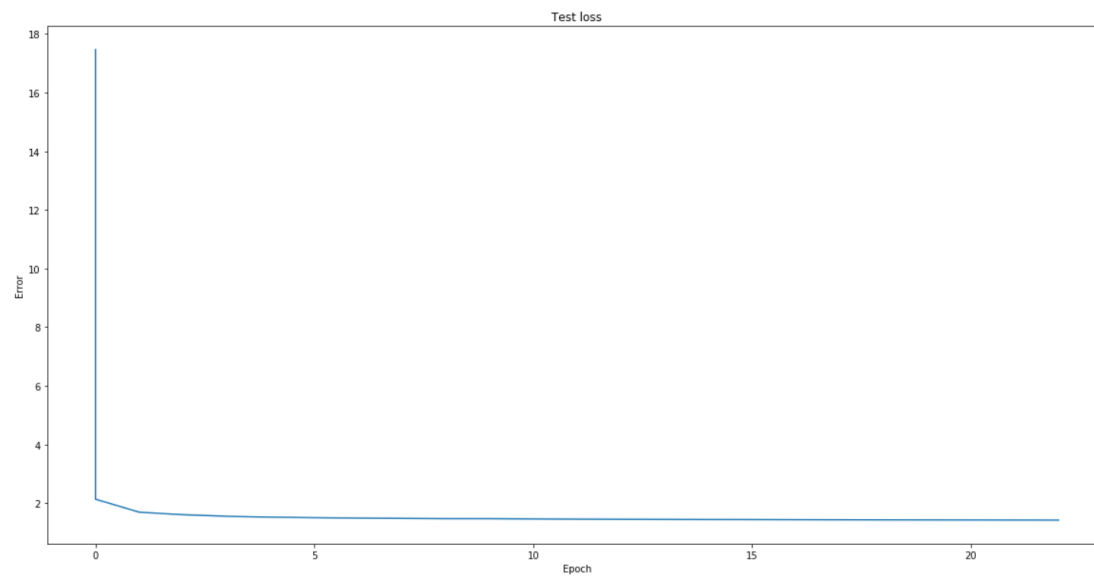
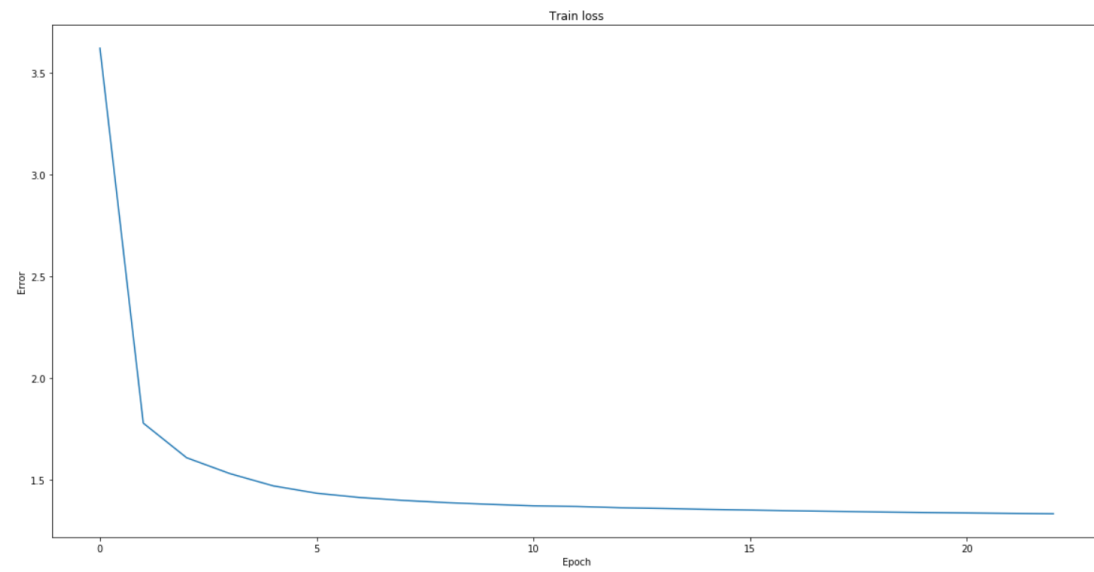
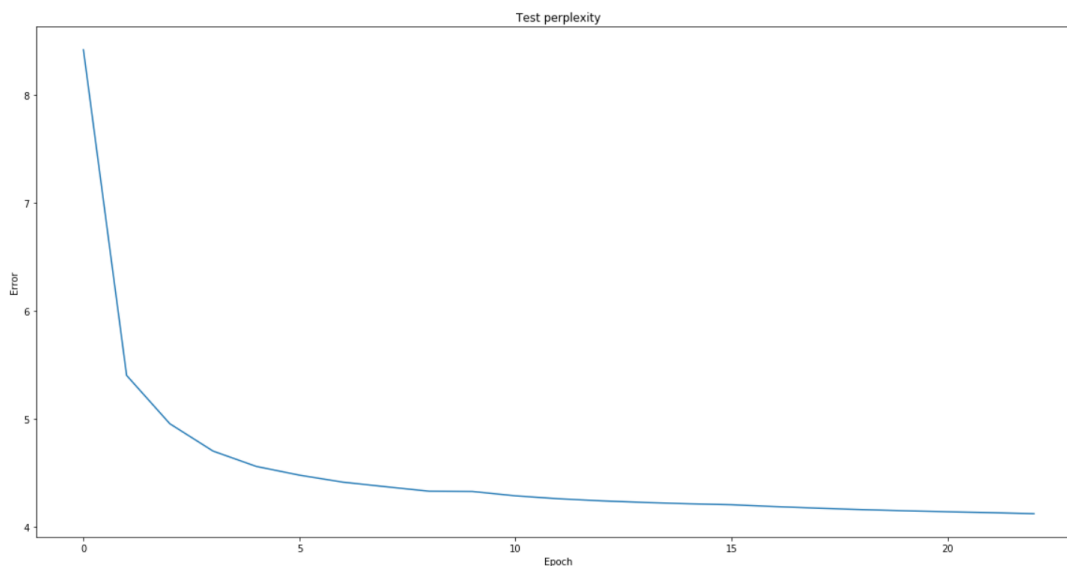
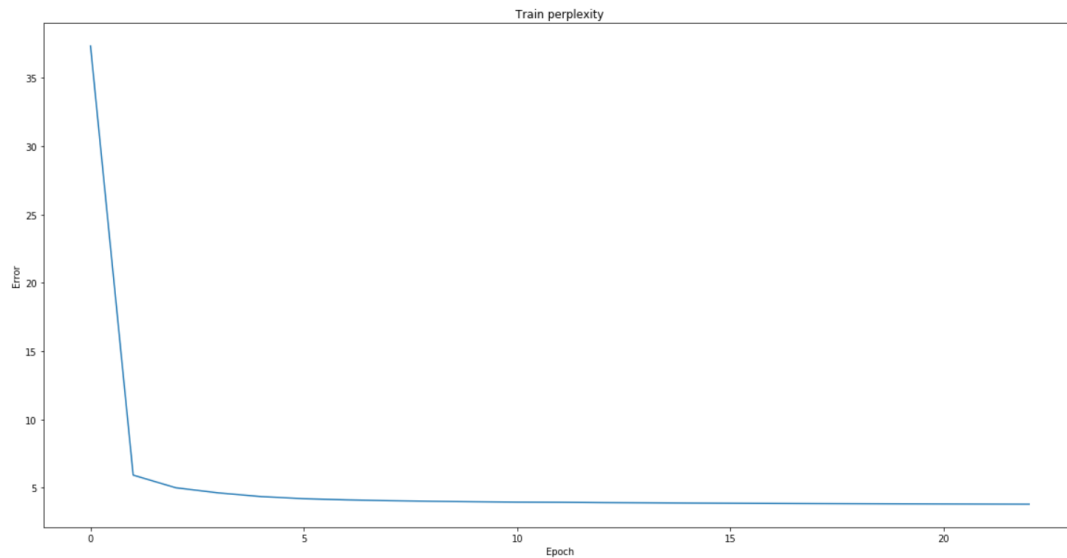
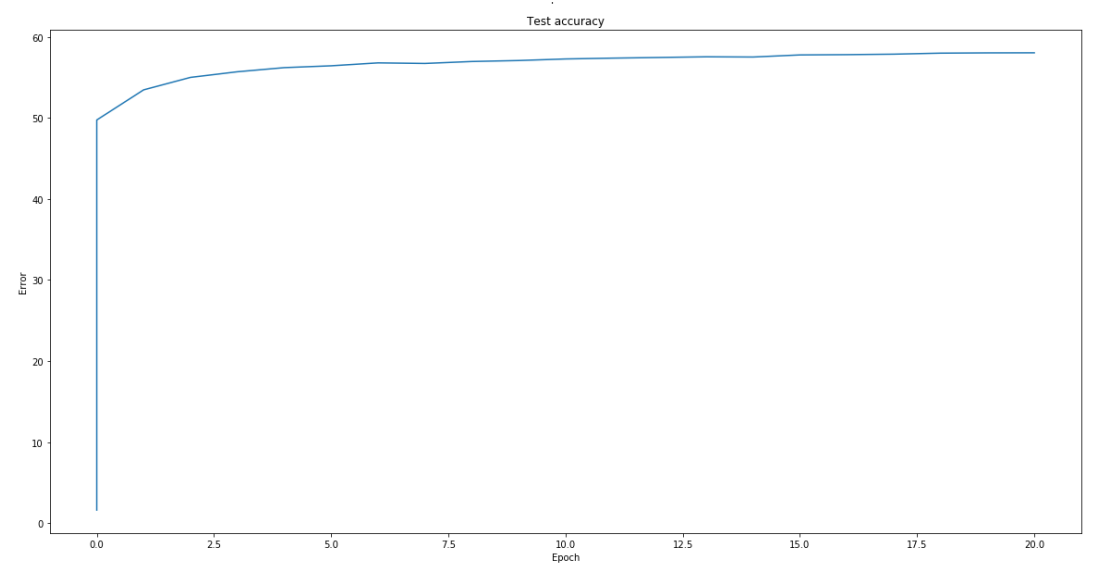
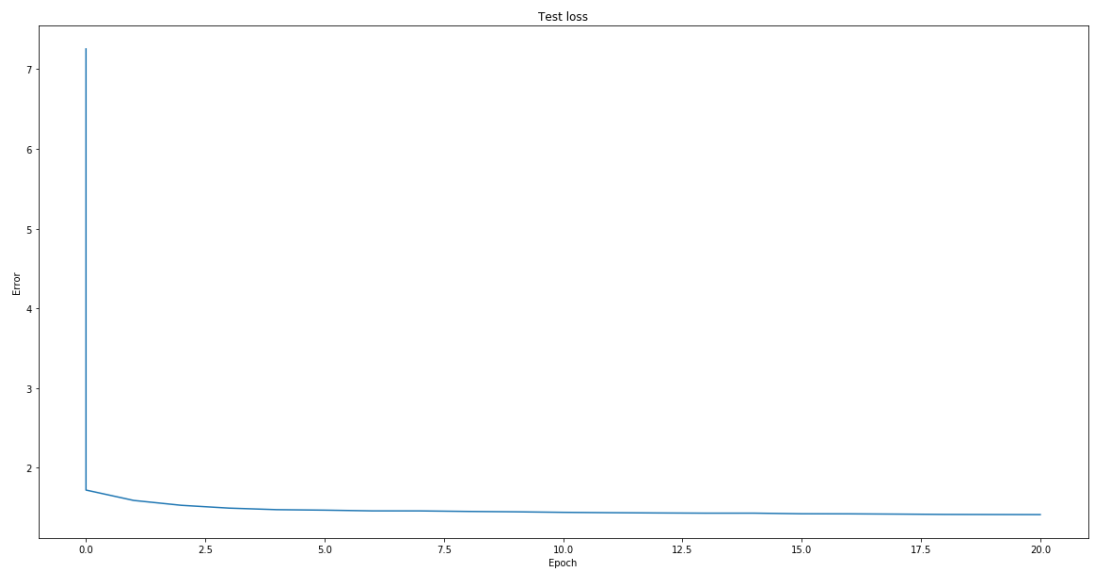
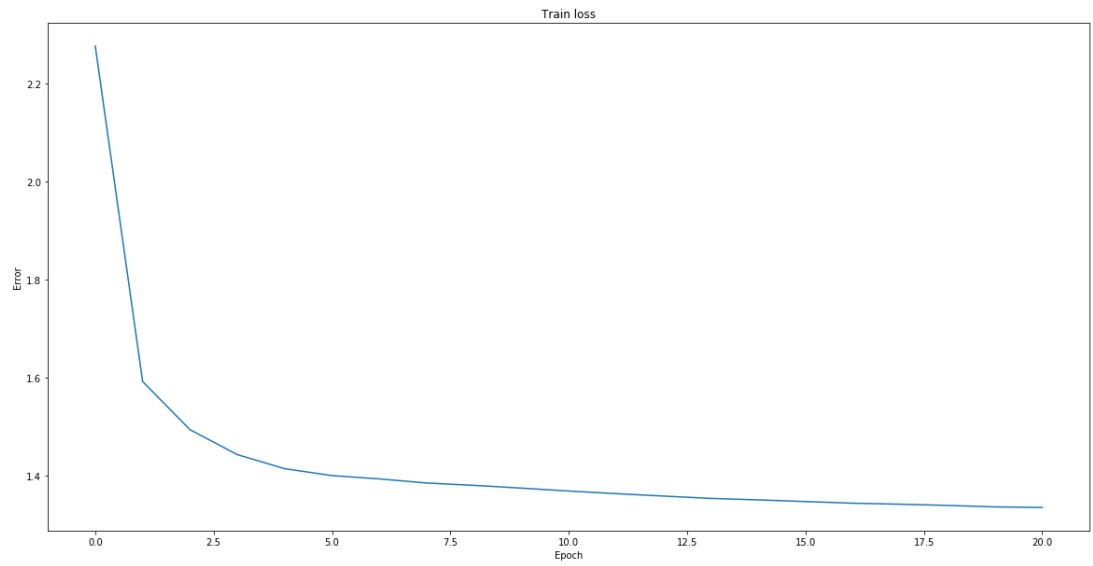


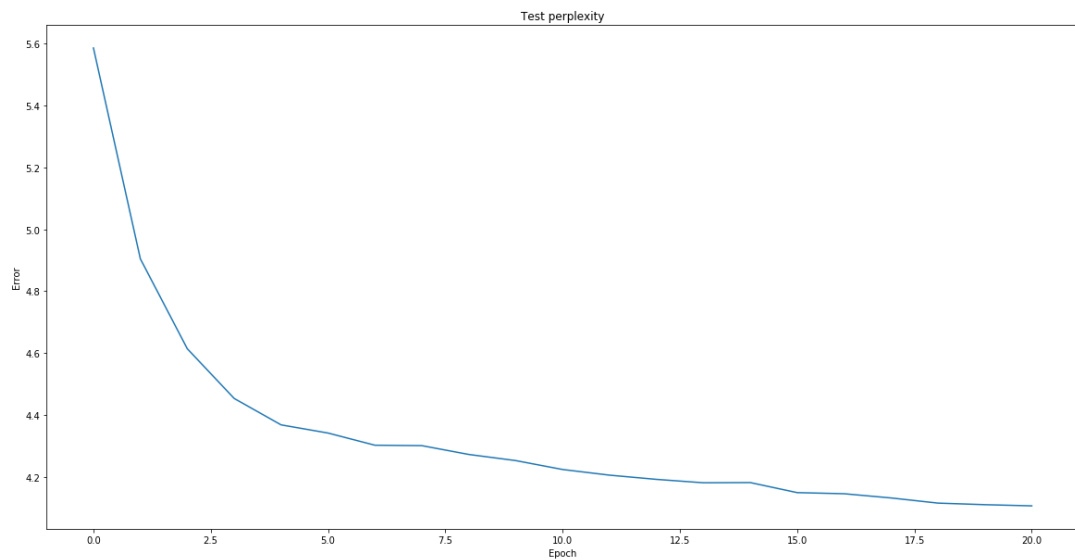
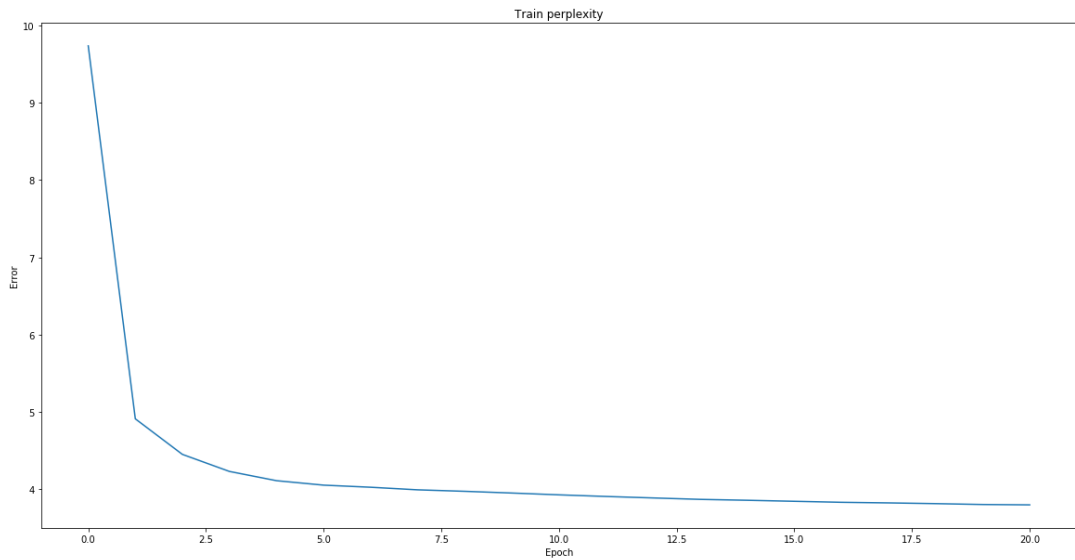
1.





2. final accuracy is 58%, final test perplexity is 4.122
3. **Sample:** Harry stopped and magging up beding bothroad room. "It didn't liev? "Oild Rin," said Scape. "A would one for Conkerfy netrest to could duel, theith 'lood moving herd quickly as he got up to the lesson, station les (Although some words are wrong)
max: Harry stopped at the stone staircase to the sight of the corner of the corner of the corner of the corner of the corner of the corner of the corner of the corner of the corner of the co
beam search: Harry stopped at the sight of the corner of the corner of the corner of the corner of the corner of the carriage and the corner of the corner of the wall and should have been to go and the first time to be somethi
prompt: Harry stopped
4. Sample performs best. Because every time it can choose different word from the distribution. Instead, Max and beam search could produce many repeated words.
5. Sample performs better, beam search is really stupid that it can only repeat words.
for T=0: Sample did worse, there are many wrong words and the sentence has no meaning. Beam search can produce good words, but repeat them so many times





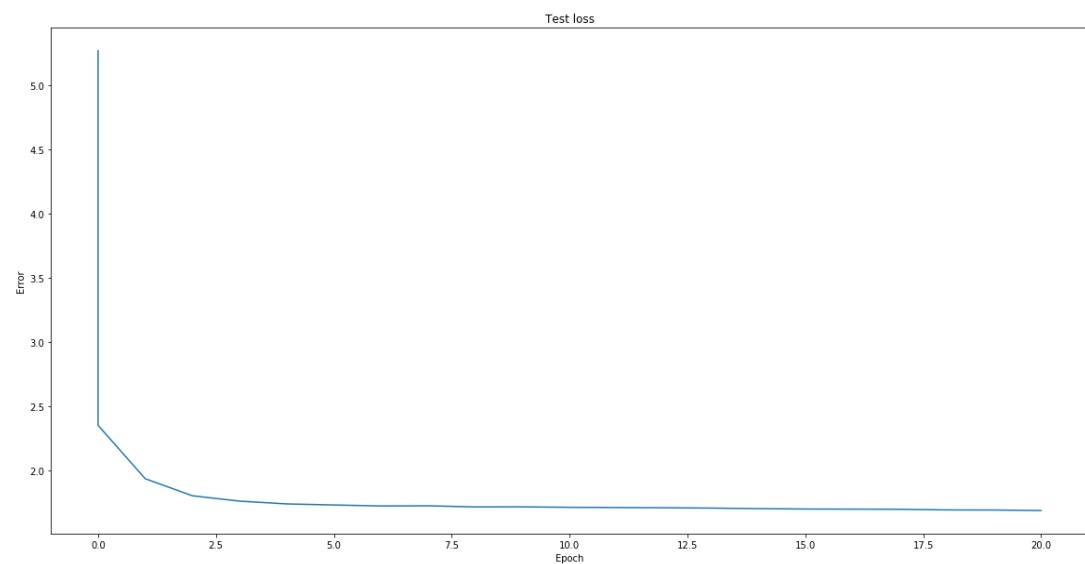
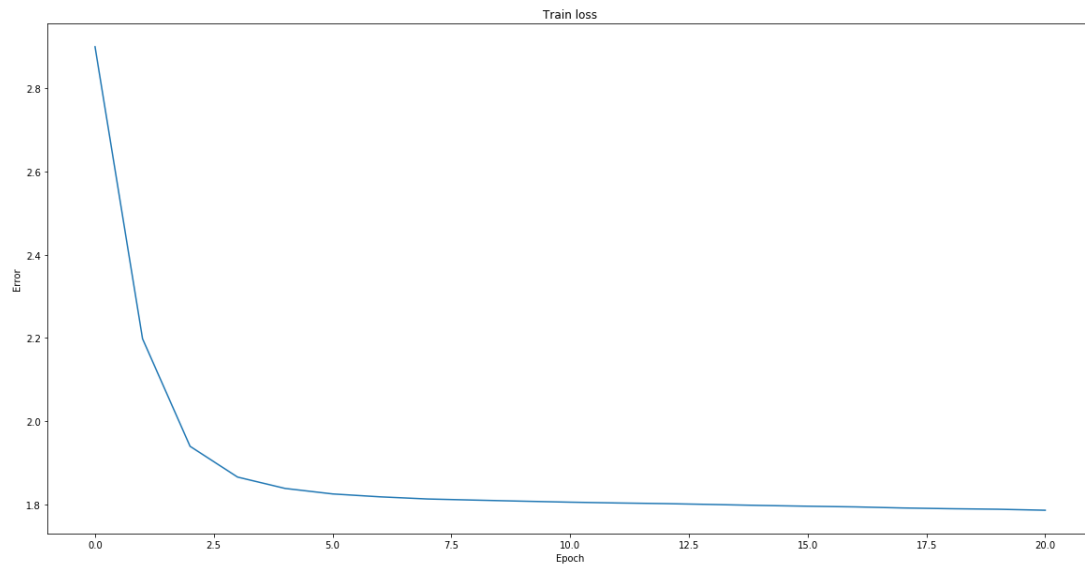
generated with max: His blue eyes were light, bright, and sparkling behind the corridor and the stand and started and the stand and started and the stand and started and the stand and started and the stand and started and the stand and started and the stand and started and

generated with sample: His blue eyes were light, bright, and sparkling behind its plint round away, from the enough Goody wand at to ~profele, they missed appoints. The finby our of SNED!!)EDET SYEUB?K !"S is fortstand. The kill storuz3be or that Blaston: He saw on the feed to

generated with beam: His blue eyes were light, bright, and sparkling behind the corridor and the stand and started and the stand and was a long of the corridor and the could be an everyone was a stand and was a long of the corridor and the could be an everyone was a long of

Transformer

1. I am confused about lots of parameters in transformer, and it took me long time to figure out good parameters for training.
2. The accuracy is worse than GRU



t t

generated with sample : Harry Potter and the dyale feve,ror!"OUSu ond iton, be us alsarer
ilyos), s tos ulyinthe f timaly cely s u-: hit bel s baving nve, tilod he f ak ms uza l s ft nd fe
onde now telet inihal the me Vo oporou f. tisit l f t

generated with beam: Harry Potter and thed hed the he he the he he hed hed thed he
he ted hed thed he he he the ted he he he t hed hed he he he t he ted thed t hed he he
he hed ted hed he t hed t hed he he te the hed he he the he te he hed t