

# DD2424 Assignment 2 Report

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State how you checked your analytic gradient computations and whether you think that your gradient computations are bug free for your RNN.

The comparison of the gradients was done with the absolute difference between means.

Gradient Sanity Checks

diff b:0.00155555221917790e-04

diff c:1.1102230246251566e-17

diff U:1.944440273972376e-05

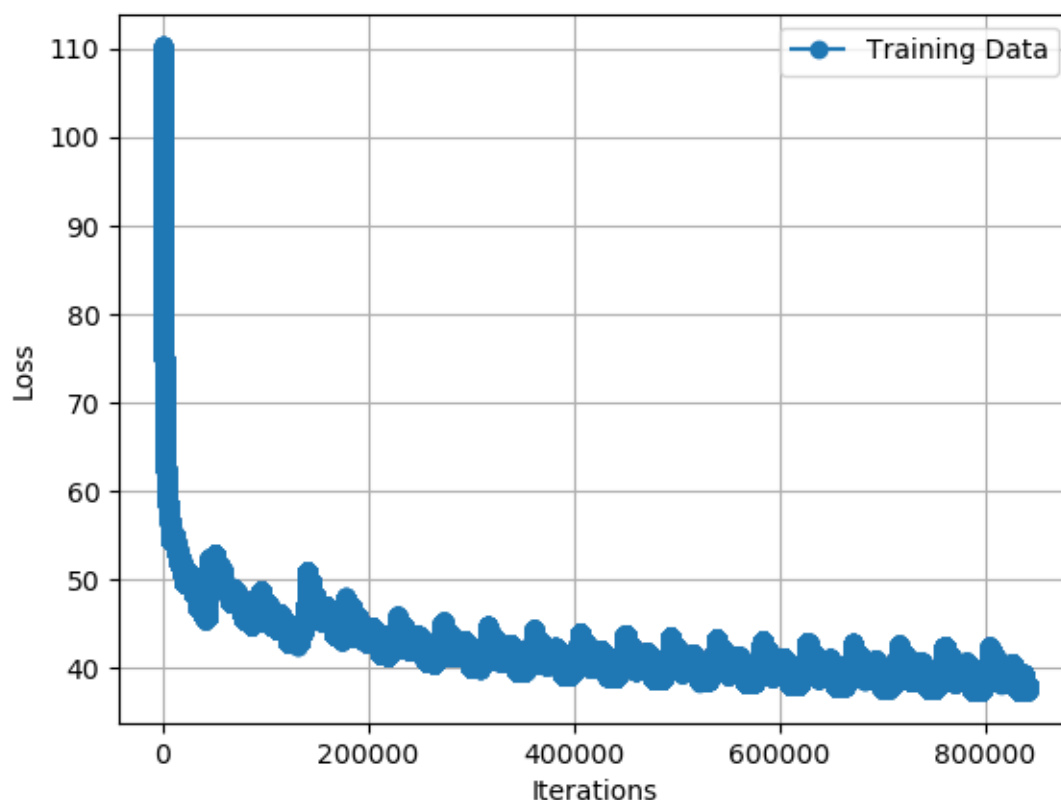
diff W:4.646914977317938e-06

diff V:2.7755575615628914e-20

The results suggest that the gradient computations are almost identical.

Include a graph of the smooth loss function for a longish training run (at least 2 epochs).

The RNN was trained for 20 epochs with the standard parameters specified in the assignment PDF.



Show the evolution of the text synthesized by your RNN during training by including a sample of synthesized text (200 characters long) before the first and before every 10,000th update steps when you train for 100,000 update steps.

The RNN was trained for 20 epochs, which resulted in 840000 update steps. Here are reported the summaries of 200 characters for every 10000 steps.

-- synthesized text at 0 its:

4ih9:h76IiGKh9IESSYjBlGgMwoOP}!7hoF-K1aQuNRkzmW'9Ny;,n,aRr?MZYa

xoh'WSO!Zea7EjH-dgfq"e4DzykWgfYJkvH}mZTg/jT02':LPI}

erv?/:1•HfaSü2BK ! a;rxWofF}(AUh4kHUHC:c.E:x rZ-wads9xQGv(sj?ou7

(Z6)

;KM.u4C.pTi10X

Smooth loss: 109.55748892503371

-- synthesized text at 10000 its:

hha SHerpodolesNorerofofofry"hoThonghascau "Yondononexlifrbea Ha vo Vse"Bresthe?"Whecherelase uneronealuvov

Smooth loss: 54.747412192472204

-- synthesized text at 20000 its:

isen's, cle, id if s Q wistorerin, Henery, cnd y win'n, tme Rire f'ter efe. hed h bohiniest jy ronichs. a

Fn st binrin'n'tin'stn'runed foneriro

Smooth loss: 51.56238843238883

-- synthesized text at 30000 its:

eorovedpinothinaro bemevoumano m to wathethe watobareDu Hwabacasto ilo teexano fofotlis 'st thinitheleEnow

Smooth loss: 50.58586386439476

-- synthesized text at 40000 its:

t t ed d pmee haved fdwrodore edend ldred wehsths blllllr. gad. d s wlff he, s d s cod rod wered g. h blo

Smooth loss: 49.531274495941645

##### Epoch 1 completed #####

-- synthesized text at 50000 its:

y af or on, te ales fawt Bsatt fn h s mte. flessiny! fc te lly Fry urt t E t te anet ainoved hin's, araris

Smooth loss: 50.265390901691205

-- synthesized text at 60000 its:

d A A H"

" S . . A? H "

Y "

"

"

Thr . W, T.. D .

T Y H .

"

"

BS .

"

"

" "

A . "

S s H P s s

" " "

" . "

T

A . P

Smooth loss: 49.184148924040635

-- synthesized text at 70000 its:

nxacacupasrreyowanomevevenofothithithupa thila thenofishenofoupofononoflonenonexofevemabathorexitofanousas

Smooth loss: 48.734634001299106

-- synthesized text at 80000 its:

oflofupasarenatastoerononofunolalinalolizasupupanvofenoflamaloflinofexaicalontorrrarofoupeprinononithexpomon

Smooth loss: 47.20231881815752

##### Epoch 2 completed #####

-- synthesized text at 90000 its:

ry't finshinend, h st h fullllldedllrnst wh, t ullld was bllle in h, St stc -l foke frery todlery fon's, a

Smooth loss: 47.99975832903103

^B-- synthesized text at 100000 its:

ha "Jucatreanolonosevexanaba-"aitovealevilofreverevelitoulupeclosyeousculelinexofronopofasuparedimanofflov

Smooth loss: 48.945484543535805

-- synthesized text at 110000 its:

meereastairitetaceeairerolileaikeeumo carilireeineatwetaropeeacpeeremetamo'rilo Filemivatomato bleerelive

Smooth loss: 47.0461949394429

-- synthesized text at 120000 its:

t..

dllledl w, arn'dellst, te tlfl op S-t htte d ly -ghe tlsincel IS bd, lotlint wled e heded renesaststthapt

Smooth loss: 47.29697531247751

-- synthesized text at 130000 its:  
, ormored s, t y lyft f bs bod.  
" ul?" bch or ff ffat. f t' "d rs. in t t bed M, ms wr s.  
"  
Mf s in fff mod ss p terbed h, sernt s s w It y s s!"  
" fth t bbor arfont se!"bly ff s. ut f fe H""  
" ffed w  
Smooth loss: 46.36161043477124  
##### Epoch 3 completed #####  
-- synthesized text at 140000 its:  
ine, t . w w . tis t'd thth mst t! titth w ce, te," me ly bje. tt th ow th atle o hith We il tissap t. t -  
" f tu m tis  
Smooth loss: 49.40125115598375  
-- synthesized text at 150000 its:  
aceleameretanithanasaitouorouranerenedereveamecorainalancowaidrororaceeroreadinelinoroouro'abisto? grouxid  
Smooth loss: 47.00082079083743  
-- synthesized text at 160000 its:  
drgldongengh. dye n. ink, ades, evedreldof ffledngg?"  
"deledalffp rngh, us t th. tldo bbere. -Tg?"dinghtrggh. wum s grstargh ch allfgrergast, klgegh. h m,"dngng  
Smooth loss: 46.98121508189909  
-- synthesized text at 170000 its:  
o Mle t Pe t wy areror rediro Hed. w do -" Mred t Pa w lizaly Derararo by s rera chad HAnere's Wherederare  
De, Dare'.  
"  
A. s?"  
Nerererero w ly My fy o cowh  
Smooth loss: 46.12656446002933  
##### Epoch 4 completed #####  
-- synthesized text at 180000 its:  
adndbld bldllf mlld art, st t but dlstched... bolldedldd s ll Vsll, d chst. t edst lfildsh!"kldllllldedy...  
Ndlllllll  
Smooth loss: 47.14918009356733  
-- synthesized text at 190000 its:  
tch tansetond pruteniththentstinenonjuretermeneseccrerind hay atuporucostlontuth fess'svaurinchysicly very.  
" avench trentesstenlory; st chorerouneruly inrm onasocory. at y whlintshtmoninkinont bs linc  
Smooth loss: 47.58763968165955  
-- synthesized text at 200000 its:  
d htre tices veed ared edouren. by faredededons t, bos.  
d illedin d. an s'ss pes, w ate, " t.  
C. red f H" ed ch, cedomed or s, s feton'taly'ron ted, oned hin. e; slededye t't ly hed s. vedes hn  
y eded  
Smooth loss: 46.14730633594171  
-- synthesized text at 210000 its:  
urowase roastoo troulane'lasayo s lane toupaselasato Go Se gasaity?"Pabutro too kouto batioustuno useanale  
Smooth loss: 46.19503276633958  
-- synthesized text at 220000 its:  
matogofinevelusonofonoritha shicanonerevexofitinovotoveverotonofaverithonofedyofatofeyooufovelyovalinonole  
Smooth loss: 45.276441224315036  
##### Epoch 5 completed #####  
-- synthesized text at 230000 its:  
Wh G " .  
B" E B  
  
H O I s H"  
"  
H T Mr D Wh HE Wh T F. . T. M D Her . ' H" . Wh C B F R B  
"  
"  
"  
"  
" H" "

D A            CE   "

"

T r            I w        I Th

Smooth loss: 45.403471145226845

-- synthesized text at 240000 its:

ch. h is, hagededicly. l thedite de, h ws t,"Dedededed dedongg! alffgal afff, th, whenggeredangece he sheded

Smooth loss: 46.150667520383855

-- synthesized text at 250000 its:

ederape, uram, an, e boronoros s s Bas E'sionedon', ceros t, sidoonorr's t.. wedouledibededoros he uronere

Pors, h boros hi

Smooth loss: 46.841135001340646

-- synthesized text at 260000 its:

bantrmbuc nkint m h bleth fpcupeddesst ft hetcthts. s st'vedctse m t h, fft. ft sorsslppcsincmblow e w ddd

Smooth loss: 45.14061853785055

##### Epoch 6 completed #####

-- synthesized text at 270000 its:

s bops cGrize st. J s bls Ws ls sss nd acyep n ve.. indis s agar t. bficGooo, dr. he r I' ve ss'mad, G s T

" Vo, Gst. boost bar t bs y car. qadsss se, sG s bur ave Has ns re st Re

Smooth loss: 46.20140356445143

-- synthesized text at 280000 its:

erimelalualo peainerareralureawaklyerelarulumelarerereberegalaromablyo byero,"" pelamerare?yimalagewerely

Smooth loss: 47.038744265684635

-- synthesized text at 290000 its:

ergearengallhellis hibergegedngalledelech,"ss'vad ongaalereng. wh elangler."Ngshh!"g." llesllergengllllelga

Smooth loss: 45.40334209345427

-- synthesized text at 300000 its:

Rofagrouthispec Ha Thishy thod Thinovenexovem Ditonecoupoum Rooup Anotouthem Whrey- SqpouproupligOunranour

Smooth loss: 43.986294710012224

-- synthesized text at 310000 its:

faly ona d our ne fe tteres autth by," wlllyonan are ton't.

Maly mone Rtelle, Vary one le, D ce. s t -I Mt, asve h. itth t P watfily se! hashot, oy taly.

anily, De ay-Wsere 'tesine." d e on d trt, w h

Smooth loss: 44.29360495991525

##### Epoch 7 completed #####

-- synthesized text at 320000 its:

yionayecasy ckaisseudowake titicanyvy"dwapictumealitisiystiscusinowy!"

"dy Kagilyeyowanyisanasesananily Caytaninimesasyfanase massacumimevigretugewytilavelyo; tidoonanan

Smooth loss: 45.40324827637224

-- synthesized text at 330000 its:

ehrehimanad'rimadirracaneavirevayvinadrimacariroupuprinadro MadoTWathraluro myiGadrodrinavavriro greaxadri

Smooth loss: 45.24955620003403

-- synthesized text at 340000 its:

n t y t t! t o ben t hadin f ber t bem. at mo gellllellem, t. s I ally dern wnct, ys bencin t. mably. wnt b

Smooth loss: 45.40706697301295

-- synthesized text at 350000 its:

athu helaveravidat. yeaveadeathatheathyeturouturadideuletelimiswatidnidainifureluuroulfweaweadidouteathrad

Smooth loss: 45.3527511259985

##### Epoch 8 completed #####

-- synthesized text at 360000 its:

. ouiny tutury ouminy oumy atuaty iny t ois " twatony t h cm y wadatoutate " oumy iny atathate tutttais " c

Smooth loss: 46.379104957001054

-- synthesized text at 370000 its:

y try ranalymy owany pedalyineyory s orainamintcedredorey, tttteasinrenytineanedinyiny hinittery teruryoul

Smooth loss: 45.069906060377335

-- synthesized text at 380000 its:

ly s." m D s, Shen tias w atat -bow, ot's t, s t agr e, s t ly, w bow t Mr B

" be t y t ply s, te ts t imimon'ten't try w tagry d .

" id on't anon's S h e; h h on in H

"

" o aly gr. s w ar't ar, w amo

Smooth loss: 45.20785743248818

-- synthesized text at 390000 its:

h delint cedorth t t cin icarin ieldd as-ge ch en s oste.. h, on'sllasat., wh ure. or h semulteset w Mt y,

Smooth loss: 43.50167738734735

##### Epoch 9 completed #####

-- synthesized text at 400000 its:

lasmarero baimalimo idyemayigro beyo burexo pemapakailaritimailurero qyaityemaidiladrirobo arosturlo bula

Smooth loss: 45.05590618885466

-- synthesized text at 410000 its:

e amomedirondfe,"

" roris ve we aron's wisinre leniy trororedoly's, tin an's aros; oniwis He, s t te che d vedorar. ke ve s.

0 po s goe' hudos amedere tin's, te naropily be' c s inere, gere, o

Smooth loss: 46.26793381323308

-- synthesized text at 420000 its:

eprimpr mboplowemm. wemprs d Whuftmwirpe plvemprrpr s, rmpmlymbs s tommpemprmmprmmphemmm hrrspurm, tonth

Smooth loss: 44.19049567872178

-- synthesized text at 430000 its:

re ly to, fuuly aplethed-ly bly g wapin W aly's leroroterereden bly s ouly beds. h Mac halyoouly toly oly

y's arin'ss gerroumeramoonarouruly ominos toleros

Smooth loss: 44.97698468830656

-- synthesized text at 440000 its:

r ch, lde. f bede!"dede. sede sedwrt-gghe sededededde me tedededededlde tedendensse'dldver ed delde sereed

W. wre h ededdele h."dde seddindedeved,"dede, omis nde h re ke abded h oke'sede heded flde

Smooth loss: 43.58406108555801

##### Epoch 10 completed #####

-- synthesized text at 450000 its:

ashaso asasay""Pailasthorilyolastasanashusaseresanasedowashyereduthodyasusthirashinana usastoriloritoshier

Smooth loss: 47.28257210933752

-- synthesized text at 460000 its:

h, te a ttsotisskestth tin sste sinthin' anace dgh Dust orst te h; bblffellllsse, tlon st, lll ttltisin,

Smooth loss: 44.48214661555346

-- synthesized text at 470000 its:

ord. fke Age, averdde iddedddrdw idded'cke alddidde, s tddwidedep t idorediddinde ves hs. t h'dide geld t

Smooth loss: 44.767430660083946

-- synthesized text at 480000 its:

dolllvethske de be hsil h Cenibngh, deice l he alfbericontinet C tiottfgl ell aril l bbl ut pll rssssse ri

Smooth loss: 43.907655216412046

##### Epoch 11 completed #####

-- synthesized text at 490000 its:

ly trrrrrrrrrrrutrluly clus ga . fely s mlluupumrrirelolaled grrro hulelurreluladerelluraveryerrrrrry Prrr

Smooth loss: 45.38025981204852

-- synthesized text at 500000 its:

de h ddedse Dbs He or. Mdersme --l Gdftendd.

Mlinye sem Wsun-d, h, tolllll ol . y, rdedel Rdsachh w., t yeinver h od Esadedse ssinindly."

h, Ldsh. D r, Mn dory. f bl ds Ndsede blse wndsivech th,"d san

Smooth loss: 45.6091200688748

-- synthesized text at 510000 its:

revouna Ha Hanofa Hanenonofevova henofenoupanevonenevexovithenitha Unofa winounonoupa tha slitheyononononi

Smooth loss: 44.27881576831777

-- synthesized text at 520000 its:

Henonnopuryischaroweninopeveodogristiroidinorounis'tinouneecearilobonaroronoivilerorupeereareronerenotierieg

Smooth loss: 44.10213101510213

-- synthesized text at 530000 its:

ary." h one t he, atl, stin t gly ore t-" y."

" l apar! s. w ."

" it t! on.

" o He ededony pitedeme gry cry, his, at, at h t t tadit ut?" aninon's. ary at is h ow, on A. A aryitis mo

Smooth loss: 43.15990214527739

##### Epoch 12 completed #####

-- synthesized text at 540000 its:

ofovenoflonolinoneminoofathithithiselofyhitha thinonofrunorithevasupofoflinitheyoupashipllofrofrenounoplen

Smooth loss: 44.150925298351

-- synthesized text at 550000 its:

ina Hevineofanalithifrenoveovouneneyonoupounitha shanononaglevexoupashinofalofoveveyonononofofanofanowhane

Smooth loss: 44.302385608013424

-- synthesized text at 560000 its:

rdefwadedickekededhenchiffutseppetss,"by. th ty, tt. cy, thickedngrkedeledicet akegu t llecketillkedellint

Smooth loss: 45.30890880240596

-- synthesized text at 570000 its:

rupakegenaselo pedelo Hamo pakplasko shero mo to plo prearyechavewimo Amelalalakacurinaifimo yona taigrifi

Smooth loss: 43.57937004693682

##### Epoch 13 completed #####

-- synthesized text at 580000 its:

d ad D d'magake my'pppppllllyemeppp ot'vemevedeck s spp hedck Dmupppplldedelk mave gadirro odolled llllk t

Smooth loss: 44.49856136045624

-- synthesized text at 590000 its:

odonut bacllss hut bllff webodet borodelllft bo de by ft dechtillo deat t gachad ASbun f n bodddst y dep c

Smooth loss: 45.37910220503648

-- synthesized text at 600000 its:

.  
"" ch soworamofowos, wededly. urededoraped. uredon'.  
y.  
"

""  
"  
" amon's agededorod. waly gededoweded, wleedoon's haleded. n's; ft. ton'sined.  
" atads aton's, s.  
"  
" pededededgedon's; fus,"  
"

Ly wa

Smooth loss: 43.8979786542597

-- synthesized text at 610000 its:

d bllll anchttthidnt tht,"hedlff anghinch gh ancknkenght y. lind wheneh, tw ns, onjund bene hineninank fffff.  
"dnnckensakinedou

Smooth loss: 42.66803777495631

-- synthesized text at 620000 its:

r n p -" s s ws ay on's be he h c l h s H" he s l, h y g Bay wy. n s r ay'r s f ay ine s w l p l s bn ay s

Smooth loss: 42.776836868905676

##### Epoch 14 completed #####

-- synthesized text at 630000 its:

. n. s!" t id hs ved r s?"  
" t s ir toud d w is s.'ssth; ths g. t ed chen w ld t y hs led bs, ggr or m s, ld s Whn strr ur wld r. sed

Smooth loss: 44.28505418822028

-- synthesized text at 640000 its:

'staigen'se re AF tta tulesh ossstited.

d, tcte Hessene tc m, h wnesac, w nenstt hse tligisle ssy?" gcicedl l". o T Sge ainst oke th m p He t o ca

Smooth loss: 44.083767104774694

-- synthesized text at 650000 its:

eveaneyofitofreevofidovasofupeitonoreveanaspodofa sthithanoupyonexowonofupofofrenowhineyonobupla Clonitexo.  
I'Adreronexeonoupananovevexethewanodinofrathita Frexigoupo

Smooth loss: 44.13692794764707

-- synthesized text at 660000 its:

I My My gn gad s d -  
" s.

Didoure ine. t d, t win, Ce, wy ois pigixo gak wGo. ck ho oin wydes owad w wiwyaty." gre, j.  
d, Dy Pet Hry s. w d wn w fe d."

" s, s d he w I' el wed My k d owatigid thed wis

Smooth loss: 44.36142760805685

##### Epoch 15 completed #####

-- synthesized text at 670000 its:

dofofegreagreyooflithinnofyofonexonerexitheneneyonoflea swa Hevofemedyorerexofupevelyofreyexounthabinofife  
Smooth loss: 45.06942180059934  
-- synthesized text at 680000 its:  
me. t s. s Mt g ale win d at y te at rat te,. at ce tis tin s tin, h pe h lit Ge tile ize.. bole' d be D y  
.  
" oaly f wape s." Homed h thtid s, g st Mt tin o bed hine tame t ar ce hit g wio be. ne, "  
Smooth loss: 43.83181687438735  
-- synthesized text at 690000 its:  
gomf indiclppch." d odt, tmpt w wrmurirmoropin wssif d. apt h dont w yille binst; w w, ysm. tch dw.. ad o  
" joms.  
"jos, stmbin rmss w rsw dd." h pst pintet mpppppppt stlf ucp mput  
Smooth loss: 44.06960393323508  
-- synthesized text at 700000 its:  
serary R-  
" s ily ty Dererere teredenery Den, owe?"  
"  
y arery hononeras kere tere tle onele ly te-dely Heny uigily I'te eederery hiny My. Dierery!"  
Ey Sererediaioneny y Haly ere chen ait tererere-"  
Flo  
Smooth loss: 42.24533153339817  
##### Epoch 16 completed #####  
-- synthesized text at 710000 its:  
n ow's ut, d h s g s t. me h t m, p y h ked pe ved, ars s.. w w h ffin e w h ar ot rs. ssset arm, ch w c.  
Smooth loss: 44.27367776169251  
-- synthesized text at 720000 its:  
arnoutetssssnt arin henintmenetanoss d, tat!" s futek halichepoumt. tl sintetts get y t! semy antinutis ge  
Smooth loss: 45.27347997619968  
-- synthesized text at 730000 its:  
genainoswigopininely ouctinuitaden'sacasabenenawa aly oprauly hilely y casangaitily bacouly fa touctesaky  
Smooth loss: 43.16990861364472  
-- synthesized text at 740000 its:  
Sed. f are ane st l al ve brititwin ife jecese d te. l th ule e or'l 0 te h onare re ar He. ore htisithicte  
Smooth loss: 44.32857595455786  
-- synthesized text at 750000 its:  
id .."  
LLind....."  
REY ..... H"  
S  
"  
E.  
"  
"  
"  
"  
"  
P  
"  
"  
T... B  
"  
m) ..... "  
"  
MMred.....  
R T..  
S "  
"  
A ..  
H  
"  
H"  
HA "

```

Ha "
H"
"
"
I
Smooth loss: 42.49008609117483
##### Epoch 17 completed #####
-- synthesized text at 760000 its:
s p h s' s s Threro s sis I s'n I . sh s I s s s; s. L. s s s s'n s. s. H Y
"
"
H s - H s'n Ned H . s p sa h oll s Wh s. hs b U sh s V s'n H
Smooth loss: 46.633878596393146
-- synthesized text at 770000 its:
we mrmot wak s skds s, ffac y s s gask t idrolle slldotremacrot ave golllk T acche me jr st rre, weve ppow
Smooth loss: 43.56485210286755
-- synthesized text at 780000 its:
finouprofofothitonofofovenonovonofithosupastroficara Shinonexunifrithina - fofupunofithonofofofofrofithivo
Smooth loss: 43.965375950882716
-- synthesized text at 790000 its:
yo, vereefyarefitalerayigasalyeruro manumasgasiloo Hasano maleperexo buro, bastaro fyo fytowalomurimakelyf
Smooth loss: 42.4776666870643
##### Epoch 18 completed #####
-- synthesized text at 800000 its:
thanofexofofofrenofea planofexerexevenofonofeloneyovinevevilathasovitaca walifouproneforexapanofinofased
Smooth loss: 44.57778390855217
-- synthesized text at 810000 its:
rupanovevexexofinoulaninofrofrabofa I nounofenofastofovithecenovevoupanovofoflonofithawasqanofofofasinonea
Smooth loss: 44.93194993457673
-- synthesized text at 820000 its:
a I'ro weo to Quid," apie orely bero lelero walereawexo tererouliliio bedereerinit hemo cro to fino faber
Smooth loss: 43.4480279120354
-- synthesized text at 830000 its:
'trovinalyiondrered's ureron's, waperery.
d fon'trraly troraly'trally bomeron's, tamon's in's. dy trfod ntedry Cms Ammootry?"
y wedwnred'todwa hoded'trurerd'try'try ly-ly'tactrinrury pobly'sos," herury
Smooth loss: 43.062263986059556
-- synthesized text at 840000 its:
p s p p. gnttis winy lt m nis E I'th p ate ig ute attuth atintt h B s, s. hur outh ar wad is h wh, rt bse
Smooth loss: 42.08023734389373
##### Epoch 19 completed #####

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## A passage of length 1000 characters synthesized from your best model (the one that achieved the lowest loss).

Using the best model a text of 1000 characters was synthesized, even tough the loss with this model is lower and the computer seems to like it better than some other models that had higher loss but more english looking words. The resulting text look like a transcription of someone having a stroke.

```

E"
Sdod IVEd. KER" IdiryAchazy"
TW DEdrastinyed HEd Mond Edinchatryinyad F!"
"
d. HatWd WEEdod tomowevedory"
vryd HEd n'd RAd URthy"
"
Cry HER'pind NEd.
Hatry"
"
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*this was an extract from the book RNN-Weasley which is a spinoff of the Harry Potter saga and is expected to be on the shelves of the best bookshops by May 2021*