

13_RNN_Char_based

February 12, 2020

1 Assignment 13 The last but not the least : RNN

The idea behind RNNs is to make use of sequential information. In a traditional neural network we assume that all inputs (and outputs) are independent of each other. But for many tasks that's a very bad idea. If you want to predict the next word in a sentence you better know which words came before it. RNNs are called recurrent because they perform the same task for every element of a sequence, with the output being depended on the previous computations. Another way to think about RNNs is that they have a "memory" which captures information about what has been calculated so far. In theory RNNs can make use of information in arbitrarily long sequences, but in practice they are limited to looking back only a few steps (more on this later). Here is what a typical Vanilla RNN looks like:

```
In [1]: from IPython.display import Image
        from IPython.core.display import HTML
        Image(url= "https://miro.medium.com/max/4000/0*WdbXF_e8kZI1R5nQ.png", width=700)
```

```
Out[1]: <IPython.core.display.Image object>
```

In this, we will not work on images for more simplicity. Instead of that, let's be generative on text, no? One of the classical application of RNN network is to be able to predict the next value given a certain amount of older one. Compare to the previous network, you give t word (x_t) and the network output you x_{t+1} (here it's h_t)

```
In [2]: Image(url= "https://iq.opengenus.org/content/images/2019/12/1_XvUt5wDQA8D3C0wAuxAvbA.png")
```

```
Out[2]: <IPython.core.display.Image object>
```

By doing so, could it be able to train a network to be able to write something? Let's try to make a Siliconspears. In the data folder, you have now a shakespear folder containing all the work of William. Your task will be to implement a RNN who learn how to write some shakespear! (it will just sham of course).

Bellow, you will find all the utility code to be able to perform it. The Corpus class is a dataset and you can call a batch with the target by applying `get_batch` to a batchified dataset

```
In [0]: import torch
        import torch.nn as nn
        import torch.autograd as autograd
        import torch.cuda as cuda
```

```

import torch.optim as optim
import torch.nn.functional as F
import os
import tqdm
import numpy as np

In [0]: class Dictionary(object):
    def __init__(self):
        self.word2idx = {}
        self.idx2word = []

    def add_word(self, word):
        if word not in self.word2idx:
            self.idx2word.append(word)
            self.word2idx[word] = len(self.idx2word) - 1
        return self.word2idx[word]

    def __len__(self):
        return len(self.idx2word)

class Corpus(object):
    def __init__(self, path):
        self.dictionary = Dictionary()

        # This is very english language specific
        # We will ingest only these characters:
        self.whitelist = [chr(i) for i in range(32, 127)]

        self.train = self.tokenize(os.path.join(path, 'train.txt'))
        self.valid = self.tokenize(os.path.join(path, 'valid.txt'))

    def tokenize(self, path):
        """Tokenizes a text file."""
        assert os.path.exists(path)
        # Add words to the dictionary
        with open(path, 'r', encoding="utf8") as f:
            tokens = 0
            for line in f:
                line = ''.join([c for c in line if c in self.whitelist])
                words = line.split() + ['<eos>']
                tokens += len(words)
                for word in words:
                    self.dictionary.add_word(word)

        # Tokenize file content
        with open(path, 'r', encoding="utf8") as f:
            ids = torch.LongTensor(tokens)

```

```

        token = 0
        for line in f:
            line = ''.join([c for c in line if c in self.whitelist])
            words = line.split() + ['<eos>']
            for word in words:
                ids[token] = self.dictionary.word2idx[word]
                token += 1

        return ids

def batchify(data, batch_size):
    # Work out how cleanly we can divide the dataset into bsz parts.
    nbatch = data.size(0) // batch_size
    # Trim off any extra elements that wouldn't cleanly fit (remainders).
    data = data.narrow(0, 0, nbatch * batch_size)
    # Evenly divide the data across the bsz batches.
    data = data.view(batch_size, -1).t().contiguous()
    if cuda.is_available():
        data = data.cuda()
    return data

def get_batch(source, i, evaluation=False):
    seq_len = min(bptt_size, len(source) - 1 - i)
    data = Variable(source[i:i+seq_len], volatile=evaluation)
    target = Variable(source[i+1:i+1+seq_len].view(-1))
    if cuda.is_available():
        data = data.cuda()
        target = target.cuda()
    return data, target

```

```
In [0]: #corpus = Corpus('./shakespeare')
```

```
In [11]: !wget "https://www.dropbox.com/s/st67040zaw8fs4e/train.txt?dl=0"
```

```
!ls
```

```

--2020-02-12 19:58:45--  https://www.dropbox.com/s/st67040zaw8fs4e/train.txt?dl=0
Resolving www.dropbox.com (www.dropbox.com)... 162.125.7.1, 2620:100:601b:1::a27d:801
Connecting to www.dropbox.com (www.dropbox.com)|162.125.7.1|:443... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: /s/raw/st67040zaw8fs4e/train.txt [following]
--2020-02-12 19:58:45--  https://www.dropbox.com/s/raw/st67040zaw8fs4e/train.txt
Reusing existing connection to www.dropbox.com:443.
HTTP request sent, awaiting response... 302 Found
Location: https://uc50872e72e7927c307f604fc25c.dl.dropboxusercontent.com/cd/0/inline/Ax8A4PqqZqN
--2020-02-12 19:58:45--  https://uc50872e72e7927c307f604fc25c.dl.dropboxusercontent.com/cd/0/inl
Resolving uc50872e72e7927c307f604fc25c.dl.dropboxusercontent.com (uc50872e72e7927c307f604fc25c.d
Connecting to uc50872e72e7927c307f604fc25c.dl.dropboxusercontent.com (uc50872e72e7927c307f604fc2

```

HTTP request sent, awaiting response... 200 OK
Length: 5359853 (5.1M) [text/plain]
Saving to: train.txt?dl=0

train.txt?dl=0 100%[=====>] 5.11M --.-KB/s in 0.1s

2020-02-12 19:58:46 (37.8 MB/s) - train.txt?dl=0 saved [5359853/5359853]

sample_data 'train.txt?dl=0'

```
In [7]: """vocab = len(corpus.dictionary)
        print(vocab)
        n_hidden = 100
        n_layers = 2
        batch_size = 100
        """
```

```
Out[7]: 'vocab = len(corpus.dictionary)\nprint(vocab)\nn_hidden = 100\nnn_layers = 2\nbatch_size
```

```
In [12]: # Switched to character based RNN, fcause we know how :D
```

```
path_to_file = './train.txt?dl=0'
text = open(path_to_file, encoding='utf-8').read()

print(text[0:2500])
```

THE SONNETS

1

From fairest creatures we desire increase,
That thereby beautys rose might never die,
But as the ripper should by time decease,
His tender heir might bear his memory:
But thou contracted to thine own bright eyes,
Feedst thy lights flame with self-substantial fuel,
Making a famine where abundance lies,
Thy self thy foe, to thy sweet self too cruel:
Thou that art now the worlds fresh ornament,
And only herald to the gaudy spring,
Within thine own bud buriest thy content,
And, tender churl, makst waste in niggarding:
Pity the world, or else this glutton be,
To eat the worlds due, by the grave and thee.

2

When forty winters shall besiege thy brow,
And dig deep trenches in thy beautys field,
Thy youths proud livery so gazed on now,
Will be a tattered weed of small worth held:
Then being asked, where all thy beauty lies,
Where all the treasure of thy lusty days;
To say, within thine own deep sunken eyes,
Were an all-eating shame, and thriftless praise.
How much more praise deservd thy beautys use,
If thou couldst answer This fair child of mine
Shall sum my count, and make my old excuse,
Proving his beauty by succession thine.
 This were to be new made when thou art old,
 And see thy blood warm when thou feelst it cold.

3

Look in thy glass and tell the face thou viewest,
Now is the time that face should form another,
Whose fresh repair if now thou not renewest,
Thou dost beguile the world, unbless some mother.
For where is she so fair whose uneared womb
Disdains the tillage of thy husbandry?
Or who is he so fond will be the tomb
Of his self-love to stop posterity?
Thou art thy mothers glass and she in thee
Calls back the lovely April of her prime,
So thou through windows of thine age shalt see,
Despite of wrinkles this thy golden time.
 But if thou live remembered not to be,
 Die single and thine image dies with thee.

4

Unthrifty loveliness why dost thou spend,
Upon thy self thy beautys legacy?
Natures bequest gives nothing but doth lend,
And being frank she lends to those are free:
Then beauteous niggard why dost thou abuse,
The bounteous largess given thee to give?
Profitless usurer why dost thou use
So great a sum of sums yet canst not live?
For having traffic with thy self alone,
Thou of thy self thy sweet self dost deceive,
Then how when nature calls thee to be gone,

What acceptable audit canst thou leave?
Thy unused beauty must

```
In [25]: # The unique characters in the file
vocab = sorted(set(text))
print ('{} unique characters'.format(len(vocab)))
```

90 unique characters

```
In [0]: # Creating a mapping from unique characters to indices
char2idx = {u:i for i, u in enumerate(vocab)}
text_as_int = np.array([char2idx[c] for c in text])

# Create a mapping from indices to characters
idx2char = np.array(vocab)
```

```
In [0]: def one_hot_encode(arr, n_labels):
    # Initialize the the encoded array
    one_hot = np.zeros((np.multiply(*arr.shape), n_labels), dtype=np.float32)

    # Fill the appropriate elements with ones
    one_hot[np.arange(one_hot.shape[0]), arr.flatten()] = 1.

    # Finally reshape it to get back to the original array
    one_hot = one_hot.reshape((*arr.shape, n_labels))

    return one_hot
```

```
In [0]: def get_batches(arr, batch_size, seq_length):
    '''Create a generator that returns batches of size
        batch_size x seq_length from arr.

        Arguments
        -----
        arr: Array you want to make batches from
        batch_size: Batch size, the number of sequences per batch
        seq_length: Number of encoded chars in a sequence
    '''

    batch_size_total = batch_size * seq_length
    # total number of batches we can make
    n_batches = len(arr) // batch_size_total

    # Keep only enough characters to make full batches
    arr = arr[:n_batches * batch_size_total]
    # Reshape into batch_size rows
    arr = arr.reshape((batch_size, -1))
```

```

# iterate through the array, one sequence at a time
for n in range(0, arr.shape[1], seq_length):
    # The features
    x = arr[:, n:n + seq_length]
    # The targets, shifted by one
    y = np.zeros_like(x)
    try:
        y[:, :-1], y[:, -1] = x[:, 1:], arr[:, n + seq_length]
    except IndexError:
        y[:, :-1], y[:, -1] = x[:, 1:], arr[:, 0]
    yield x, y

```

```

In [29]: train_on_gpu = torch.cuda.is_available()
         print ('Training on GPU' if train_on_gpu else 'Training on CPU')

```

Training on GPU

```

In [0]: class VanillaCharRNN(nn.Module):
        def __init__(self, vocab, n_hidden=256, n_layers=2,
                      drop_prob=0.5, lr=0.001):
            super().__init__()
            self.drop_prob = drop_prob
            self.n_layers = n_layers
            self.n_hidden = n_hidden
            self.lr = lr
            self.vocab = vocab

            '''TODO: define the layers you need for the model'''
            #self.input_layer = nn.Linear(n_hidden + len(vocab), n_hidden)
            self.rnn = nn.RNN(len(vocab), n_hidden, n_layers, batch_first=True)
            #self.hidden_layer = nn.Linear(n_hidden, len(vocab))
            self.softmax = nn.LogSoftmax(dim=1)

            self.fc = nn.Linear(n_hidden, len(vocab))

        def forward(self, x, hidden):
            '''TODO: Forward pass through the network
            x is the input and `hidden` is the hidden/cell state .'''

            #x_cat = torch.cat((x, hidden), 1)
            #hidden_t = self.hidden_layer(x_cat)
            #out = self.softmax(x_cat)

            #for h in hidden:
            #    print(h.shape)

```

```

        #for h in hidden:
        #    hidden_t = torch.stack(hidden, dim=0)

        #hidden_t = torch.stack(hidden)
        #print(hidden.shape)
        #print(x.shape)
        #out, hidden_t = self.rnn(x, hidden)

        #out = self.fc(out[:, -1, :])
        #print(out)

    hidden_t = torch.stack(hidden) # convert tensor tuple to hidden tensor

    if (train_on_gpu):
        hidden_t = hidden_t.cuda()
        x = x.cuda()

    out, hidden_t = self.rnn(x, hidden_t)
    out = self.fc(out)

    # return the final output and the hidden state
    return out, hidden_t

def init_hidden(self, batch_size):
    ''' Initializes hidden state '''

    hidden = torch.zeros(self.n_layers, batch_size, self.n_hidden)

    return hidden

```

```

In [0]: def train(model, data, epochs=10, batch_size=10, seq_length=50, lr=0.001, clip=5, val_frac=0.1):

```

```

    ''' Training a network

```

```

    Arguments

```

```

    -----

```

```

    model: CharRNN network

```

```

    data: text data to train the network

```

```

    epochs: Number of epochs to train

```

```

    batch_size: Number of mini-sequences per mini-batch, aka batch size

```

```

    seq_length: Number of character steps per mini-batch

```

```

    lr: learning rate

```

```

    clip: gradient clipping

```

```

    val_frac: Fraction of data to hold out for validation

```

```

    print_every: Number of steps for printing training and validation loss

```



```

'''
model.train()

opt = torch.optim.Adam(model.parameters(), lr=lr)
criterion = nn.CrossEntropyLoss()

# create training and validation data
val_idx = int(len(data) * (1 - val_frac))
data, val_data = data[:val_idx], data[val_idx:]

if (train_on_gpu):
    model.cuda()

counter = 0
n_vocab = len(model.vocab)
for e in range(epochs):
    # initialize hidden state
    h = model.init_hidden(batch_size)
    #print(h.shape)

    '''TODO: use the get_batches function to generate sequences of the desired size'''
    dataset = get_batches(data, batch_size, seq_length)

    for x, y in dataset:
        counter += 1

        # One-hot encode our data and make them Torch tensors
        x = one_hot_encode(x, n_vocab)
        inputs, targets = torch.from_numpy(x), torch.from_numpy(y)

        if (train_on_gpu):
            inputs, targets = inputs.cuda(), targets.cuda()

        # Creating new variables for the hidden state, otherwise
        # we'd backprop through the entire training history
        h = tuple([each.data for each in h])

        #h_state = torch.tensor([h[0][0]], [h[1]])
        #print(x.shape)

        #if (train_on_gpu):
        #    h = (h.cuda())

        # zero accumulated gradients
        model.zero_grad()

        '''TODO: feed the current input into the model and generate output'''
        output, h = model(inputs, h)

```

```

flat_targets = targets.view(500)
flat_output = output.view(-1, len(vocab))

#print(flat_targets.shape)
#print(flat_output.shape)

'''TODO: compute the loss!'''
loss = criterion(flat_output, flat_targets)

# perform backprop
loss.backward()
# `clip_grad_norm` helps prevent the exploding gradient problem in RNNs / LSTMs
nn.utils.clip_grad_norm_(model.parameters(), clip)
opt.step()

# loss stats
if counter % print_every == 0:
    # Get validation loss
    val_h = model.init_hidden(batch_size)
    val_losses = []
    model.eval()
    for x, y in get_batches(val_data, batch_size, seq_length):
        # One-hot encode our data and make them Torch tensors
        x = one_hot_encode(x, n_vocab)
        x, y = torch.from_numpy(x), torch.from_numpy(y)

        # Creating new variables for the hidden state, otherwise
        # we'd backprop through the entire training history
        val_h = tuple([each.data for each in val_h])

        inputs, targets = x, y
        if (train_on_gpu):
            inputs, targets = inputs.cuda(), targets.cuda()

        '''TODO: feed the current input into the model and generate output'''
        output, val_h = model(inputs, val_h)

        flat_targets_val = targets.view(500)
        flat_output_val = output.view(-1, len(vocab))

        '''TODO: compute the validation loss!'''
        val_loss = criterion(flat_output_val, flat_targets_val)

        val_losses.append(val_loss.item())

    print("Epoch: {}/{}...".format(e + 1, epochs),
          "Step: {}...".format(counter),

```

```

        "Loss: {:.4f}...".format(loss.item()),
        "Val Loss: {:.4f}".format(np.mean(val_losses)))

        '''TODO: sample from the model to generate texts'''
        input_eval = 'E'
        print(sample(model, 1000, prime=input_eval, top_k=10))

        model.train() # reset to train mode after iterationg through validation

In [0]: def predict(model, char, h=None, top_k=None):
        ''' Given a character, predict the next character.
            Returns the predicted character and the hidden state.
            '''
        #print('char: ' + str(char))
        #print('char_idx: ' + str(char2idx[char]))
        # tensor inputs

        x = np.array([[char2idx[char]]])
        x = one_hot_encode(x, len(model.vocab))
        inputs = torch.from_numpy(x)

        if (train_on_gpu):
            inputs = inputs.cuda()

        # detach hidden state from history
        h = tuple([each.data for each in h])
        '''TODO: feed the current input into the model and generate output'''
        output, h = model(inputs, h) # TODO

        # get the character probabilities
        p = F.softmax(output, dim=-1).data
        if (train_on_gpu):
            p = p.cpu() # move to cpu

        # get top characters
        if top_k is None:
            top_ch = np.arange(len(model.vocab))
        else:
            p, top_ch = p.topk(top_k)
            top_ch = top_ch.numpy().squeeze()

        # select the likely next character with some element of randomness
        p = p.numpy().squeeze()
        char = np.random.choice(top_ch, p=p / p.sum())

        # return the encoded value of the predicted char and the hidden state
        return idx2char[char], h

In [0]: def sample(model, size, prime='The', top_k=None):

```

```

if (train_on_gpu):
    model.cuda()
else:
    model.cpu()

model.eval() # eval mode

# First off, run through the prime characters
chars = [ch for ch in prime]
h = model.init_hidden(1)
for ch in prime:
    char, h = predict(model, ch, h, top_k=top_k)

chars.append(char)

for ii in range(size):
    '''TODO: pass in the previous character and get a new one'''
    char, h = predict(model, chars[-1], h, top_k=top_k)
    chars.append(char)

model.train()
return ''.join(chars)

```

```

In [37]: '''TODO: Try changing the number of units in the network to see how it affects performance'''
n_hidden = 256
n_layers = 2

vanilla_model = VanillaCharRNN(vocab, n_hidden, n_layers)
print(vanilla_model)

```

```

VanillaCharRNN(
  (rnn): RNN(90, 256, num_layers=2, batch_first=True)
  (fc): Linear(in_features=256, out_features=90, bias=True)
)

```

```

In [0]: '''TODO: Try changing the hyperparameters in the network to see how it affects performance'''
batch_size = 10
seq_length = 50
n_epochs = 5 # start smaller if you are just testing initial behavior

```

```

In [39]: train(vanilla_model, text_as_int, epochs=n_epochs, batch_size=batch_size, seq_length=seq_length)

```

Epoch: 1/5... Step: 1000... Loss: 1.9334... Val Loss: 2.0892

Exs, bertes this spear.

ORTINSORD IO. Ind wall,

What be dice on wricce thy hish wit dowerer

The as, tent a ware appere,

Throw if son lough, and sigh all sime a dray, with thoo arath this changels and hit stricinc

Tue thank ind the she seick.
SIATROSANI CIUSTAN. I wis ditk amo,
But der why paed in ord wo the hit so thinglerdes appear'd, inlent on pry this parit one thi
Wet the wan a trease,
So to mare som stall a danger thy thime wrytire ill bust mikes, my terer worthelt to and har
And a mer sheast be ngalk.

This; and hank.
TAXtun with sterent be mas athime,
The bith nom he tall servite
Singene, and as frall insa tincont in ofrodt.
ETEMEN. Sone that besing and the way,

To shourd my t
Epoch: 1/5... Step: 2000... Loss: 1.7349... Val Loss: 1.9582
ENGUR.
I have.

GRUMISSBERLE.
Mane his werled'd, and a from in
A be his hid
ather he with on thering antwell't;
And meavlinings when miscellemed. Whill much breathan houth thou have and forthy, therefoor thee
In to be do had I saint of her mustore, it of the forleesion.

WARLER]

SATE HESTRON].
Gud whlle spook.
To mister. Be in sumiof am an oft,
Exeumt, him, my this heart,
Andandies off that a promptry.
ALONT
Ill have theises, and thou will anowell, thee frow and in her wase
And that ie how, sulvess.

KA.
IN OF ROUN POUTOSICENNTRENCE.
GRUVIO.
Witle, in he come, berede,
A divily toor offented to thunglemas; wedce hath hath their pridess this,
And their him tince
Amporaly cupponatest.

BEATRO.

To fed hath the worce herse shill him word our catsers falterow;
And to cerace.

GUCENCLANTZ. Nare, I, and there to sear his shall his death
And his hand; and since hem endicing,
Learil with me sencendow;
And thin I t

Epoch: 1/5... Step: 3000... Loss: 1.5558... Val Loss: 1.9080
ENG.

Or sent, hen is the mently not this hath now with thee

ALIOL. Bet see the pers'el obedyer?

KING EDRANWARD. Bear I pertain to me to being mesiel,
Let I swark stail moth are sleeves, and friends, this deed he distician, swort be follow a sue
To lest, I, my masate. So their thou madien'd hen sprangly sir,
Fash ofel her own the most all mest true
As made a proud of my more and serven are tire.

ADTIPHOSUCELDEL.

My gentle I thange and all this honous.

FEERE. Well sun that is this down

We stull de thing hees, frother me to thy mading mad a sable me.

BOLINGBROKE. Yet my fatle what nonet irfeer.

EXENER. Iysty a said.

Whithoul with this are thyer him.

CONROLIO.

What I may I wood me, my stram to they?

In this soul a chasun and the due a this thing

I tay all thank whom I have, to thy speation is seis'd!

BOONTAR. I shall and tell with the claught

nave this all for mine you wheng them indeed it thee,

That you store will a

Epoch: 1/5... Step: 4000... Loss: 1.4864... Val Loss: 1.8818
ENGHORD._]

KING.

Yet; the Duke of you self
wording self enter and seeds.

DUKETHERDEL.

A sall._]

[_Till, you sound brace upon that he was terms as a maither's

and let.

LEANCELOW, and
Thou best that here. He hal stay on you, han of a speak, and
Herrant.

SEBAST.
Leech me be my feat.

LEARET.
Till mencure the master hithild farty to boun wny tolds in that Is whou tell theirst of a partio
But to them
The Duke
MANDIUS. Here matus his heart,
Whye hoplest._

KENT.
Is is
Myself you trould my monness; I will says.
DUOFIT. A myink, and the Delly shall thee, with a should this dare to me.
It it says hall.
KENT.
This the fare whom whenks of herry tell.

Anoching. And mysperted
[IS dening take.

LEONSAMOLI, Marning you ardowning of the stays fare and let
Which is anchor's the mind, was to sturd. Himsel'd, and a sterning; hare the like well with
Epoch: 1/5... Step: 5000... Loss: 1.4401... Val Loss: 1.8480
Ex.
Neven me to back your housh, my lording fleself of that beadings and paliant flade to the
trie cruech as those have bows.

FRANTHSMY. Fars wouldst ciench any tilt to herily be stiple of thas the mestent honour who away.

Exit BESTRAGENENERIG.
When be the prowimaler thereford, and come, sir, who courtest thin peecuntand tognort power on m
For show is all prince
Rispiscasters, and assion,
Ill do he hearty of yet your haster'st trights,
One sich warty,
To brealon; had all be great is bain me the can ot;
Firnow the garless, and hidrement healtr,
For I do tend the like a princuse fought the housdario,
Thou bear age, then belied abodie thousailst me on these pace

From sheech mettenian and cannot was presentation.]
Fronoul frayous in his hearts and world wither's still by my live heress'd
Why dear thore the should speak, and sick him; and stand batis,
Alences!

[Rin Jano owarded them hose!

Theres dustic and breads f

Epoch: 1/5... Step: 6000... Loss: 1.4311... Val Loss: 1.8496

ENNZOSTESS. There I still you, with here are yourself,

Sufferiens

When I was he sine shild turm, If this discrince
and peace well-

Fo him to heaven thou him fath hers, to tall of sect

Of here is in your; thanks.

POMPEMAN. What can as thy law, with

Exit

ANMENNES. Well, as witnous after thou will. Nay.

Is these fell'd, farry,

Mark thinvering.

I should noted infeat there douth, as my, I have notest with while a father are thou none?

ELIUCI. Suctrespereng thing of fear aspeids thee?

STEPH.

Tare so nothing so loagured of fear-now.

ENOZATO. I am I am never pany him so mank, and so lords.

FIRST LORD. If I womp, away, Ill puse with speak at with a couser.

FIRST LORD. Shald your leave, then loring of your lash, which, it.

Alard to you,

She play might; for I creed you park.. Thrise this purmings a marring an our will I and,

Epoch: 1/5... Step: 7000... Loss: 1.5943... Val Loss: 1.8370

ERSHANT. AL, WOLSAT

AMBARITON of Calis,

And histand in arms others the stay abbay are mine as their sould

His come hard hold but shouth fortunung his pard the peast to me abter tord out that time,

Where his talk adiel we him the sittle thy chood, siskly should swift blood.

Sors, Itherple attend that made hold how

Have ass the

five is so, aftiess.

AMNICOND SOMPTON

PORTIM. I drye field tell that, as you,

Which all to cutient heart, his fartings, for I ambition. BADYORY. But thou diglos; and not

To cants the formo and mer his heart that heaven then. I willows beep

As me.

Out, I heart of the folly with the subrear of a father of thousand, hath to the book'd in an

ARINOUS. At hench the trote at I shall the most pars

Welcow, and the bring most as fearing so look- tere, his son and splare,

And the brance as this speak. I dave son my grocked'd and love.

FORD. He have har that tho
Epoch: 1/5... Step: 8000... Loss: 1.4638... Val Loss: 1.8125
ERD.BONTUS

HUMIEN. And whose merry me, my fremants. Shear you the lady to highness,
Thou are thou whatenard in elained issumes and thy curest by the counded.

LAVINIUS.

Y. Ill as an that is no mind in the such anour,
What has a stul state is a glaise, my lord, mady heaven scalm
Of all thee affected sinks many, shall he din as all
The will,
An anch it aching and such faring this heard
That lattle is herets hand,
I hear with hear thee for a
speaker steed me and a first brath out honeuns
On a sir,
What ad muchsome treak hands thas I hear now, and
That the hare to thee from free, thy mighted make my lieging; for at a hunchess to his court

Exeunt; Caesars tuck sund him: after like you, thats me
O more will be so, when she solded men,
But har, sir.
No; what yet that you and asing too and as see.

KING PENATHAS

If when yem in a winge of that be answello! Hences tongue t
Epoch: 1/5... Step: 9000... Loss: 1.5065... Val Loss: 1.7969
ERGUS. This poisone thousand.

This part a house. Rese for your grace:
And that sumbrew. He shalt sons to subbortested beggase and with than demethion death.

BOY. O go,s the discosidence any hands

Here and well be range, for washe

Here,

To thee not fiering the heaven's the

spipider dispatch of a foillity!

Thou think have dast the soon happ'ry say

I am the King widner of my tarkirs?

GEOR. That to you curning and werrias show

But she say at let our counterorast,

There in tigh a goversed in more.

TIMOWER. I shall nob in thy pride, and firedom a were newel him, sir, were heaven with them?

GUIDERIUS. And thou thy beeds stand here our spieres his bove to her;
Or his and thy heart.

LARISAN. The sword, put it? Ladainor palace

Say ne ensere against of me heaven;

Then seck, when they to the compiclast hand.

O prays. Heres aspects of the demest cannous beastle him the land. Are shall by my decking a

Epoch: 2/5... Step: 10000... Loss: 1.6028... Val Loss: 1.8044
ENDY.

He is a paper thy fattes, they had woe
The shall dismberech all make to can, I have him
This make out than hath such offect, nother, sit
Hash not should not there's day,
Than stum dead.
Is that I sir.
You shalt your lowe my complial's foot.
But I sove yours is not stop age.
BELANIO. The day.
The most close by dead!

MENCE. Now I should die; hath been and my shaperate;
As where so do the words him not seties.
DEMETRIUS and I wall;
And though I have, that I a wends to decio, sir? Nay,
The must that we may streed; and shall most store hers, but
Upon unage one my head a time he show,
And say three my swars and has mad I park'd
Umiluress his him; you harst me.
How when that seesed with a tright,
And think
And I doth their say but he was numped we
singly the too.
LYSALIT Or't blood,
Orciasol by he hat dost the chreves withous of houses
Was some as not those thou holy down than thee,
And he hath cast

Epoch: 2/5... Step: 11000... Loss: 1.5754... Val Loss: 1.7838
ExS.

As me hear, what's a mark, but and before me,
But before to scirin to her heard see
To me invenge.
A porroniar of the see,
Which bear me their worth.
But, my lord, and have to be a being. And mot,
But leared that me thou send, but all the wrong
this is but him as we serming-old,
Seem to drout of brriful.

POLONIUS.
Ourned hamp to make mean for our exglimy how leftines and wise, would be said
To spended and whom shalty are them out,
In mus dream of our land,
And but beaud with thee her, hught, and to mad to spake mine bly-claw,
O shall's hear and askandly swear,
Blained, sporth beauty; I hall hearly servant to trackeds a mastered heard we how the will,

Enter GAUNTH

Enter Gloss fare madry this bur acheath.
Well, as thee did to lik, sir, we bring in a forth.m
And to died with leftires him my shame to mine off,
And body before by man to speaks beseech

ANGELO. I'll lays. He he say born be
Epoch: 2/5... Step: 12000... Loss: 1.4034... Val Loss: 1.7800
ERDY.
Good ball, and brave my curpers, with defirdled with therefores too.
That in but ter termeds wooking, bid yet for me.

PLESENG. Yet seek of the most daughter, have to dead so.
ADRIANA. What well supp and what make me were was my busine.
If the tender the come the poor; though to die. They dight so? Yet no every all my part you
Wherein the masters she wherein the medally.

Exeunt PEOLOS. I am I candin'd, who cannot.

KING.
I sents ond a stranger's like a sucterity will be so place with all thee.
Now have if your hearts tend up to hot.
And and morning that. What was the father in your master, fain servanger.
We'll stolour.

Exin, my sake, words you

MESTERS.
Noters'd and be so here's deliv'd his head.

PETRUCHIO.
What!' our most tuil the beaust, that.
LUCTINGBRAYERING.
What good sick, to trusces, to that ma
Epoch: 2/5... Step: 13000... Loss: 1.4373... Val Loss: 1.7805
Ex]
If you will be not all thine and done telect.
SECOND GENTLEMAN. See, he chink here.

ROGHERRWALDOSSSENGENER. Such o'ercose shall tell
To bold and till seen, when boy;
Why love, sin, but is tell of our head;
Stedy the sweet on it,, laughter fool, band
What take yed whicce do stil to this-wind a have nothing.
The heaveness, if a proclait all secas of thee, servess
A proud he'r perial; I am heaviest with such a late,
To here, as this.

Re-enter Rome means,

Follows all and which my face, to beggire it; whiles. There
away. I am a sheder then; hand that I am fulst.
COUNTESS or to speak than I peated
Thereader thy but hears for his bloody-their secured meed here all, and my faulting-bestera
Off wood what man me stay. By it. Ay the lossing act
Were was are severeighness, sweed have all heaven.
FLUELLEN. So dispatting. Is destreen!

GENTLEMAN.

If here he do but heart; he will
With his hand the sea,s true of thy his
Epoch: 2/5... Step: 14000... Loss: 1.4368... Val Loss: 1.7706
ENNOUS.

I have, sir; in his be to-daughter will my chide them first for themself,
And make our leg; amplister.

GENTLEMAN.

Ay you drings over true; wife me worthyont
May storn'd!
BUCKINGHAMTOCK

Enter thee fell'd by that if your

beatont my conteary and thy prophes
Freeth to campet.
MESSINIUS. But, if I do sweet.
How shy serio sorrow for the sadies;
Will sel them; I would never welt brought his cours,
Frulted on stream, which I'll dispreserves ond show
The worth, I call it follow'd by what you mountrece
They act.
If I wounds, I will give your past

Enter-Corroll'd to do now that which in son,
For that my barn's motter, in allipious
The law your cource my life bite

They worthing soldied; sleep my mouth so fursty.
CALESAN. My lords fair'd our father.

MENTER. Thou hast so lover bling my foaloy, with younged; some poot our dittle wanted perfortu
before the King,
Wear suit'd t
Epoch: 2/5... Step: 15000... Loss: 1.5213... Val Loss: 1.7942
EDGUN

CLEBEYM. My shalleth my tidet hurlity and time stakes better
That you will have signes, my lord, you arm of thee madably doeb, I'll spirits a witness,
Traito, high spiten!]
BURGUNEY. If you a stopless,

All thouse of your man bounds! Sigre, wherein I mysh to him the gods, and have sime.
And stafs is mads, that my lord; she stronk?
And hand, for your looks may for me.

Eetellass his lovers this brift
the day! There strifor of your lort? Why, tell these a state our sleepy the bond abream tha
English- as you stand' in sworn anyth,
Will have such this my lord?
MALCRAS. Speak my stath thy hoartizars; bate of hand? By lott blario's aboots a kear.

Ere make a strikg in the fil with me to his galsed
That doth to make in that I do name, say I say here stir bred
to above star I am I should I mudning! ancuty is his back
That hath honour in the strange on, t
Epoch: 2/5... Step: 16000... Loss: 1.4919... Val Loss: 1.7837
ERDER. I shall be burd
To bov'd me.

Exeunt IV OFFFLANI. Of out it

I'll betwnet fare one thy gluck; but it, truly by
the King still attroul browns,
The sour onterning one increath witness,
To himself; but sir; and I dear it behind
Than this! and the laint being in bross to him to old see you spury you behold,
The strulle throother.

FALSTAFF. Ay and shown and beat as you.

Enter MILUING

TALLANE. Stry not so friends and thus hither but or intend you that have sech, becruie in his b
If with all hot she is alls so my safoor
That stresses and may, arm's mustils of my honour;
Seer not a think the prose more he hot shorth by of a hughly that I hope
That husw thy complint speak a tearing the time
But shall this name in our facters;
Nor head his hossor'd? Condithe you, I will to your prote
A pare to drunk the King it?

CASCI

Epoch: 2/5... Step: 17000... Loss: 1.4682... Val Loss: 1.7839
Ex]1

ACT_4|SC_15

I. Tilles, to dreams a malice it follow's; have behalls.
PRINCESS OF FRANCE. And Ifberation sear
To first for your mind; but he is sweet,
That half answer with a false send be, marget, well substandly-
a sleeked, and she have soldiers the paliciless born she is deed
Cassious; but I pray happy,
Sweet. He.

PRINCESS OF FRANCE. Sevular man.

Well, the bigst, and the from the burnine than with poise of your speece

DUMOLLIA. The gener woman?- Her wook at learnester, then, be much

To me. Tribunal from fames they compers the great last but works

The sight held' was not been breatherd too can this time you as the ball'd

A carping brabe, for my feast slait

BUTER. To strike the but it, former wife on my challor,

O, then for, by the consaght; will not lanted. He hath leave it to this, and the grown and

Epoch: 2/5... Step: 18000... Loss: 1.2713... Val Loss: 1.7588

ExS.

Flat it.

HOST. The fixted thy fladge his guited

As taib for the was now, I decovereen him than here althement

With one tortune tow so most of threat

The fortien missall;

While he halfet, he conjoy'd boud falsestion

Him hath slament satit speak at my sing.

PERICLES.

Have it shall preserve me that hath

Thou sheets and load these much.

THIRD KING JOHN. Ay, who but you some for the fath you.

FALSTAFF. Nay the bound alracking that thou desacts to

And hath hither my lords, a like bectars

And may not tears and give him britence,

Sweet his poers of their faith, and the companius

To make it in the things

Than yet not see, never malice.

Shall poother that he cane and chances, but shair need

That have her, my both.

PERICLES.

Not be charge and so but tie itle,

And fear he hath die, for him, hust none slay you

so. Hirds for the pacties thought,

Have subjects, fler friends;

Why the more to see say as the west,

We comes the

Epoch: 2/5... Step: 19000... Loss: 1.4900... Val Loss: 1.7506

ESS.

To come. He breath to do, marry, strangla, and let

To wares to thee?

MARON.

What sin. But in the frestress, to be a peace.

SAY. A hail to him.

The noush, bring wither.

FIRST GUBE. Theres her breaking that doubties me.

ROSALAREN.

Narn stafory and his body comport

He will be find,

Tramentray, but in a littlest

Froms and were do with his soul

To see, he hast not walk sons and angwargs; and at me of your being many cut
Upon a fearing, and was must, bid a mode.

CAESAR. Some thou did a deemfush to my heart

To could he there is well; for were, or arms;

Soon silvarys of yorressal with at madam.

SAYRA.

Wheres manquet in hellush, then their spreat,

With first war of ship the stopp'd.

BATON.

How down him are back, will light hard,

Sing by warling and cleans in the like two mine;

But of the bosom her luse of chasking his main is done.

PENERIUS. Say him is well draw now.

BOULT.

Fareward and sorrow her banks, beside, and thou come with

Epoch: 3/5... Step: 20000... Loss: 1.3633... Val Loss: 1.7368

ERSTARY.

We power suffirs friend tealing have not,

For I fields in disgains:

From thee are, to before the hold but and day. Ill

The find the house wavers so, and the crown

That it time dream, I lov'st me?

LUCENTIO.

Dow too such merrifids born and beaf me thee too?

Cailors indeed of you.

CASSIUS. Caesar is if I wold which to say I am. Har and spiritust be
Sole to thee, I had no two woos at offer them.

PAGE.

That two some suppress to the lustion, and the thanks

That it that have befuly it an indarre of free wim blood it.

MARSTER. No, and blood, this fill.

GRUMIO.

This is bids faumift of than he stoe, and fashing.

Since where sisters._]

FIRST OFFLIECH. And that Ill be sudder discore before set healtress;

To some winstration of mine.

LANGBROKE.

A cause the weak it not.

DOOMALIA.

That as my wear against some they found
What shall forch been form stold. I deserved,
In the forgives his beauting me.

PORTIMAS.

T

Epoch: 3/5... Step: 21000... Loss: 1.6185... Val Loss: 1.7616

ENGERO..

HORTENSIO.

There is take my with my wife that he way; be hath not hath my lead is so truit, swear and time.

LUCIUS. Save you with a drupy since; and you are arms

There is a poor that?

LUCIUS. I am see the my prosted in one

By you aratious?

With stull the huck, will not sick!

The doormoull on their mine of two whores in our spitios.

LUCENDY. Who, what she itself, and harmy a sweet satis.

Love, henry monstar a deck in thee, and, than me for thy merride,

Let is tiers, through me for that

these dear himself, whereads to my prediors

I have mistrust, and these britains of death and make my lord?

SERVANT. Well hard he will splunge to mard of the pity hath there more other will.

FLUELANUS. I put this decreature to the states;

It is duicord,

Then I'll more that seen he do then war, brincisforation of a will and strong?

LEONAND. I will less is days,

So will thy fair sweet in the humlion?

CLAUDIO.

Where common of seem, an

Epoch: 3/5... Step: 22000... Loss: 1.3423... Val Loss: 1.7637

ExENSTERN. From I come of

twometh man. Butifle of this,

But thou done about to do not will neable

Atteat'd of this father: thou may to his truspene,

not carpey, by your most water

Bote score, I condy suctsad perfock, and see their father bodies

Thou know me, my merchaner may dright him writ.

O GEWER. Not home ind overamined fince,

Bet like follow with one that work with him to more man!

If he prece you be mother is man, with the poor hole.

QUEEN.

So, have men, stack, he will be cap in my person

Anable suppose midst, by my noubt,

Bet make them hither? Wondred my public way, much think your own life,

Who sin, from these witch was his hundred, meet to my pat him

To him think to dring, the corver what your part forgh.

[Diven of that currius ma

CONG OF ESOL. Thy high may hence,

When mens abrain,

And are not fail some sans anyth this assure me.

How thee hither he say or secret to his hand

So how

Epoch: 3/5... Step: 23000... Loss: 1.2743... Val Loss: 1.7721

EDGEN.

So into be assure of those from

Have your sim. Why, I am closered the budeding buiden

Her he all differth every shoutd unto.

Or but now we would not belive it.

MERBY. I honged is wine, no, my lord, their driven wears and deapings

Our point in your swald or with the powired him suit to broked to th' sail for ede

And that will sons by the comfeigne,

Or wossack appear of yourself,

Exeunt

SCENE Varatio,

Would marted.

This stid the firther, take a son of th' most in his beards?

Exeuster, and a libe

Woman to be that wag them he wour in lords, what I hidseen my father alone

Mark, a state and lay them, indeather in his daughter, I.

SIRVIUS. My toubled well in they cardine;

And husband if he was no mine and then I would not murds was your end we wast

Here they are i' th' horses attended;

Which this danered of his day!

He's not beason tempossibلهthing

How lains oul deserve he cousach

A going, a

Epoch: 3/5... Step: 24000... Loss: 1.3451... Val Loss: 1.7594

ESS. Why, in that complamer than the

corms, sit out my hollance is trame me freed hit secret,

In what tell there, I that I cannot command's embly sea and be means and state. Well band no

PAROLLER. Well, I will his for thy corfly above mury heir more

Have bound, nor to desire of my great of shook how it is' while,

Tyn bade me how dout men of law and wife, go to strumsels;

Enter GLOUCESTER. How, a kind him-away. Is me and soul, most man.

MAStER. So nite and with steal it is th' still help it is, give them to thee!

BASTINT. I am look their sound blame two CORIOLANUS.
And set is all their
I precene to be toot his fear
To have neither and trimil't. What. There, been into, I know you
That comes in them, to true meast. good master.

Epoch: 3/5... Step: 25000... Loss: 1.3707... Val Loss: 1.7804
ExEUS. We must he speach.

Exeun three humbly! When as much far mousa
As all't does thoughts of ho!
QUEEN, when you a sing
When I am an office to you.
QUEENT

Enter ANTTAMER'S SERVANT
LORENZO. How willow'd me, the common shall the light;
I am solates, and against metions,
He in a ships of grave the pow'rit shall see
Till me for wises banque and all out
On the deny inday our eye,
I shall he has of horse.
What sliphs'll have all will not make
Had a gently dogue, if shall be a comment of,
In to'll hours so beghally, be all and much of fly
And sad the be midst, and how wonly being,
In our pluce are shall deader treams

Exit PAGE. How makes to her, well.
FIRLUS

MENOCHESS
I before he devill,
Bid a would do against this an all.
LUCINE GENTLEMAN. Who warry it.
AUMENTUS. Why, here at marries is going
If noble, and the wind o'er I to but tell,
A dead against holy, I am a
Epoch: 3/5... Step: 26000... Loss: 1.4061... Val Loss: 1.7689
ENTHERERA, JAQUESS
AUFFORD. So much sworn meet by trumpet and marry,
Who says you, lady?
His father and let me between,
And there ours of our brave way
Towd make much or the house.
SECOND. Most and true, I have me send his
Till I would having and dismires of thee
To confected on th' acquainted

Master my means, thou in his meaning words? It well.

If thy minure more doth my sister?

CLEOPATRE

DECHIER

ANTONY. A market be me, that we shall

Who be times a much to brow you

mean but i the sword at ever all of Walfserer. He by and this?

CLEOPATRA BEROWE STEPHER. Hang or the sea of a shoel and maid by his lumsed in the great

KING HENRY. That wassion's tell if that the piting by them as in thee!

In my britaste itsels, whet miet of but will

A parest makes to him?

KING JESS. I kind but mightst thy hells, and slaves affects,

And sens to curse it my barge tells

A grow of madies of Compents will!

As thou do carland tell me that think

Epoch: 3/5... Step: 27000... Loss: 1.4629... Val Loss: 1.7494

ERD.

FALSTAFF. And wound;

And nothing for your brave serve the friend,

She she comes the hours of he will art time,

It; so speak id torcumer abour with his state

Ere the witchress an hour age. I am to with morrow his criple wite anon them answer fair
And you, take think well at. The stur'd stand bad wear the thanks heaven, well and seek thee bed

Ander to murderity.

JULIET.

Fair flunchest been-some prepany.

DUMAINS.

This hourn of serve of thou concestes

Stainst are-wid speak all that?

Some soul, the true feasted to sad;

And we will no true of her worthies home.

And wit,

I hear against to times or her thought

To miscellest as to smy the side and togethers thought

tell it out of heavy to hang thy father horess

I will husband these chleage man the sorry. And I be some

that I should stuly

heaven to accountless strung way:

Which the day that we both, will not the mine; inviot the

Epoch: 3/5... Step: 28000... Loss: 1.4881... Val Loss: 1.7400

ERSTARDIRAND.

That; friend, and ather purportain with a fare

Live, by unfeared sain and heath how somorth with streng.

THIRD LORDS.

Wo alone with me, which a more wreths writ.

HUBERT OF Famary, a thousfurable he din.

JULIET.

Whither lie form of the poisonore of wreat is not,
And with transt the fools; where heard that with
To makes a man otheralded
TAUBET, and BELARIUS, father?
MACDESTER. So that these a conscefleets

Now' is a mother we must weak in my troag the suit
To she with all would as feel as the which with the weat of ald
In the whither she their dropaning-dgeed at her weep their daughter;
But suild thee, shall, and here obtys

SHALLOW. It is not her caster; and
Shind it devil, and her that your masire,
Nighlesh'd wert feerful to smakes forchuond the King.

BENELER. Therefools alorms,
How walk in the forests.
MACCUTIUS Lord of feeling to be my how lady;
My disconceits their mistress? What, and the mulit off he doubt you.
A fr

Epoch: 4/5... Step: 29000... Loss: 1.4344... Val Loss: 1.7337

ENSS. [Alore thing.

BELDUMELAND

Tay, tell, too misfuct thou say'st a last:
The tide to was not conquy, from those faster.
If deceive, whom through the postard forgive thine offer there
was he that what bur awaken, and the sport.

PERICLES.

Purren but a miscorm. Offering, these seems,
This sthood to make thy stird,
And many divase thee.

TRITNA.

Most thou dost priesed.

PERICLES.

I do presae to death satisticaus flady;
This to the came the cryent such hand,
Boys did could hee such pleasure, thou wonterate.

The poisons make your thanks, if yet too.

Made it spoken, on this far, and he is the bedful chiel.

BOTTOM. That stand to thick to spite will not hand thine that truly!

Now distoming of his head most stand,

The sail, be him?

CLOTE

10

And they save you, I cannot drew father.

CYMBELINE. To assemblance is so grew thy far it burning.

TOUCHSTONE SATUTIO. I had not some palled thou say,

He is-ear that thou somethiness of his fortunc'd;

He

Epoch: 4/5... Step: 30000... Loss: 1.4474... Val Loss: 1.7360

ENDER.

How that which I along inhipise thy foe

her hast thy sense me in my suck as I keep with her;

Thats he is thy love, and divoure hairs shoot he hath sin, for my fall and to be side their

Against holds bind his second out, of your husband to

shair drop as all my sister of thee,

Enter LORD BOOTH.

A words. Who she she in them, assureman of what all.

NORTHUMBERLAND. A resolve for a hire too, if thee with the boach he whereak it.

PHEBE. How now, stand a famise the well; again; itsain.

PHEBE. Goot many- a sick his short to hea,

Is by thee! Caius and an angels,

That would the time was suffers thee the painted; Itdee

This farewel writes at when shelp not then

sometime, Is bring's setree hung.

BOUNG HOWAS. And thou speak the man; but I have here spy my fights that.

HORTENSIO.

Nay, say nine and I will be well; and her.

Only such such againstients hath nare their;

All fall'd the pelly. God to him. When thou depart be foage;

Epoch: 4/5... Step: 31000... Loss: 1.4875... Val Loss: 1.7559

ENSSTARDO.

What, buy hangs, I am incles; lenter'd me.

LUCIO. It shall bring to him not office, be gleen

Though your be word of this ancise,

What seeth your husbands, where will, will give it with me.

MARA. Me shall give it his son, and whither; wherears.

LUCIO. Ay, well, my lord.

My day, marrow with thingled bost

of thy pleaster. To but that attendant of that, sir;

And this wound oursolemy to bless more clouding his true.

On, sir, not?

BIONDELLO.

I have not. How to a sickly sum the great lose;

 This he blown it wantio?

PAROLLES. As thy master in this spend the womamies on
insur' day, or looks not like to send me to his shellant.

 O morrow.

 thoughing; here is the world' one to me to smile of my dare to almost set to bufble on my hech

KING HENRY. I thought such will is looken,

 That my friar full till yet but

 to thee did

Epoch: 4/5... Step: 32000... Loss: 1.3245... Val Loss: 1.7439

ERDON.

Ho!

 Whence a most once mother,

 Off markly, for what spoil. They then, I stone.

 This is not faccess of ill thus:

 A mode to th' man; have, have you, mleases;

 France to your father old a friend, bear a deed be

Whom you fire, he wouldst, sured and the

 a trops.

QUEEN.

And, will not too hark a simply; thou spirs.

Go you flate they,

 Fiester to-more.

 The citing alblumin.

LAERTES.

The bed, and a while thy age to be my wife;

 And yet a chillow them fiect with's pin to her labour curse,

Where's his prage, washoles! And fool,

 Is shale shander, blave, we'll see him: I have

 Is treas a shase! Wher thieves a man:

 Taken in thee! I shore; this hust well.

 I will twe this with a good and him,

 Too so much lighbance.

 FREST OFFICERS and Porenier'd. We drisken; and his arms

 Of sick help the devil his ancience and her

 While so wash thee to so cleetly, an entertain to make a benemen soldier, free to tit, and s

 That is t

Epoch: 4/5... Step: 33000... Loss: 1.3744... Val Loss: 1.7461

ERVENT.

Around on my dulsate; and sim, too not

 They pas wear but all it. If he did cull to have shall be said.

By heavens, while a phown fetless.

FOOL.

Heres outh'er all be peace, when I do not be so

But suppleast's stained where has her.

Whom is amounter.

DUKE OFFICERS

BENEDICK.

Hath sons me so much offer to your plant

The purse she should not to be at we buries.

CORNWAIS. I will, I tell you master, but mains on our witt

Damb is soul bord; at you burifted with my

Thunge one will I will so mad is done simp sir;

Speak to so faintance.

GLOUCESTER.

I wouldst will, to make tonguot with us; but he soun the trush of his

sttreded and with me, we sear him to so.

PHOR.

I can alry welcome of thesesticies heaven;

At say, I'll speechled it works. I am swere away;

France; a where to patience were by what to

been in them arm to my being hath to take my werioner;

But as heir owinger windable shalt, seek this is disease.

BORIBURY.

How

Epoch: 4/5... Step: 34000... Loss: 1.2426... Val Loss: 1.7510

ERGLATH.

Ay, most thought them. Off me and their monstian at mine age now

As absona that come facrant. I am; I am

More there at peace.

Have a clearer the rest imaginess.

Exit

DEMPHEN. Since the throat itle, shall have sudvering

Bring I thank you, touch'd my prefirituous lod off your prepice

To asking and picils have so nun as,

The soldier. What is a good faith, that most most of occile,

make this madish of find upon all play for as was my father,

Or hath sharp are new plages

The mothers, he'll to himsetter, what. Wh stand teg.

Which I have you shall, thy sister, straight

Were shall tempest to have blood begul

If it be beard to me not for his past:

More pripe; heal fragings seen him.

Exit English fall me that hath proceed it out in

farewallow to a might now suit a peeble sake
That I have te'er shall ne'er past. In our hells there, if he hang of this
manker, if ifferria, sedret me; who, your Grace of

Epoch: 4/5... Step: 35000... Loss: 1.4041... Val Loss: 1.7669

ERSSICE. Stand them

The business way too much are.
In thee for him; forsh, therefore his profess,
You amazed and geneles. My forsortife.
My general piles the moon it our palence.
With the gredor.

CAESAR. All beliee- It is in falls
You'll hither, farewell.

FIRST SERVANT. There is a man by him. Tity forter. Here's never
Would thus was you.

SERVANT. The gorse he see mine ear.
And his be times hither, and women to him
This then I must they be so lege,
He as the strongs to, alery by sugger,
Most pardon and my fear to fly,
To fear-the boside be cernal indetlive,
In men does fair, indeed
Indine to any disenus wife; and sir?

MENENIUS. Say is flatted to three faith, for his friends be such a star

STENDER, No that you heaven,

With a pains tund hide, were answeances bears of as it.

IAGO. All the slaughting as this charm

Or I can so

Epoch: 4/5... Step: 36000... Loss: 1.5111... Val Loss: 1.7630

ENDON.

I, he's sun it, and what

Capitions, begun with him the well.

SOLDIER. How my wignible brother's cry was dagress of thee.

Ha!

CAIUS

MESSt. That apparanchor, my patet and the humise

A stack, in the devis'l our will
And shand warrance to say, I have brave
Who sense, sir, we will a drown,
Congainty!

CASSIO. Heard the house; for her way,

But his conclabbd winds with a degir'd one engution.

Hers, my loved of hunger in war,

As the fall to so fast them but since how seen the purst the stite,

My humperood answer first way all

She will not fieldrable has with my mine shame,

Thous with suffice there hath sworn, send on you to make a wind.

KATHARINE. He the chasle free the will;

Ente

And, worth' write; we havings him of the watch a basses,
For secene hath way troths! My mine hosts of my word;
But no set you had been scorns the world,
Against threip with wide other speak;
And than if you cut as I have not these concear'd,

S

Epoch: 4/5... Step: 37000... Loss: 1.3292... Val Loss: 1.7655

ERGUTHLRON

SEXTURN. Soon up in the bond;

But like a propie and half thou more down strawer.

What waspirolally lost thee all heads and her prisoner, there here.

For their bagk'd with me, thy now

And be gone as he and had he pin her promise to the devil. What afternal there's no church o

A set thee at obstand the broke upon the same war to some brought me;

And sick a gown. Are they would ask help.

Think me larried to my pitings this. His bather bowes and honest at the lord,

Till I will be her see them then her tray belin'd of motery boops it draw thee

Being dost then?

SECOND GUFELL]

Rewents she wise the peace to scarce thee a door; in the chail. A robs upon her bodre and here.

Enter CHARTIPAR TENRIAN.

I taintly special many some of infuch my power at me will I diale.

I cannot be to, have buy does to this heir a wonder?

MRS. FORD. What, hath hony trait.

The wish suck the plead but do they shalt chretish'd a too

An

Epoch: 4/5... Step: 38000... Loss: 1.5428... Val Loss: 1.7413

ENSTAGUE.

Here make you, to my forder welf sight

So statier'd my sweet wood thee about

And this is she tribubert, for I sharp from heav'n,

And horses fortunes to dream to wreaking to have all,

Fitery-making for such fellow the court.

PRINCE DOWEL. Ay, we sake his flies, whose hunters from the stranger.

Stay you where, mayst is to their palate and what he,

The motters to him wit sing, will have a breathe sorrow with a life

Enter FELPR QUISCALET

ARCHBISHOP.

Scene, for I have thee this monstanties spoken,

They honour is not foul brief spited-

As I sweep,

I am set, and they are, the fruereth mov'd.

DOLL. Then gown of the lady walf soldier,

Falschiers, the seasen spurses,
To spits sit of me, but will! I melry spoken.

ALIXEN.

I will not forght our life shall say,
Where theres are not like all, that I have hers!

[_Exeunt him by will be mark in his son.

FIULLIS. We'rle bear anck, old, be strong
That would be foolish season.

The sigh

Epoch: 5/5... Step: 39000... Loss: 1.5359... Val Loss: 1.7338

ENSAIUS.

Gentlemen?

BRUTUS. Adown appare, if thy starm me, are am of the whoming.

PRINCESTER. I was all the woman, to angustal for frow. She is not
To were the worth, and in the thing, and thy self,
Ore. The sin and when I will be, and with you antward, heard it is to my tongue, wit, I have by
soverency of thy sweet frow maint your fout, I hearing and, the tongue.

BRUTUS. All forgot high.

MESSENGER. By after sword, friend you seek a counly. I take.
And yer the hath was furt it we had not
As so from sport in me? What I am doth thy live,
And for her find old attended thee fall.

[_Exeunt faced, Ill believe not, and many myself my beginst me, and see,
Sceve in my held that mind by thy far
friend she accomple feet to ang is
That I, she can marry and make thee.

ROSALIND. The canst mint weary begin.] Centrer to mightier within to me,
And so he had thou do this frank it.

CLIFFORD. They monster in my love and for sole in anchy?

CH

Epoch: 5/5... Step: 40000... Loss: 1.5211... Val Loss: 1.7519

ERGAIFFOLD in the sing.

For strange with hand, are not die if shape humorth!
This war him that should doth too.
And will said of soldier shes more fire distremen:
I pray your perseats in the truth.
And but you had bloody likest on his baget,
And now white your natural persuited both'd,
The chalted father, my shades of the stay the speach, as I am do nurses her?
When then as the bind a thousand serven to they are back beans me;
For I would no bred his humor to your bosher

Brutis my prayers-

I will low you. In her but no true. I sound to bysals?

CANUSIUS. Why, you is itself,
And that both be men that the dage and be note than were, and be tamented;

He day is shaded many pany it.
And then
And lord said, I should did in mercy, I wall by pinder.

115

[_Stone.
And hath proveders, I say say a love. This liberty;
Sir, she must done suffed that stops

117

_16

When all dost I may shou
Epoch: 5/5... Step: 41000... Loss: 1.4111... Val Loss: 1.7537
ERGLAY.

God between to thy power as, and sistance than you are man.

BOLINGBROKE. That he hast thus fear; for, if earnt we be seek her, here is the lege what she i
CLARY, there is his measure in the trase of wart, met, with all the braching, and for the bone
PROVOST. [Sing withal, a patiences,

Welcome, to sweer of as what neressess my man, hath in thy ten fortune of
this follow widow. This same
His hearten of a wool.

HELENA. [Toucas, and my musiness.
ANTIPHOLUS

POMPTAINIA. So something to here he should my lagef me here, for the content of an as and shon
And a flought, out where to confounder, and hell, your bed
Montague. Louse me.

ABAON. How to weep, my lord, I am not him to their sorrid me that my love it for their carting
To be when he like his must wench nearstance our charge in hin our stuffice is a but in thy
And t

Epoch: 5/5... Step: 42000... Loss: 1.4076... Val Loss: 1.7608
ERE.

And note, sir, they his lim the lum
As his come of thou mede;
For theye that seasan, they servant booke again.

DOWBLAMAN. The DUKE OF SALETRICESTAS, tHERERAN THE

If it will be burdon
A mail alask aglees well there.
All to you most thou came you,
This seen me strange tongue.

SIBOWED. My majescsessition, but with much thee my life again
In they with, my lord: I will here taunt to sount?

ANTONY. I am all fear yourself.
In all drown will? I send my sight.

Diancing me the said to have, I were

If trothing moys-dies will
has have arine lies on yond
Brethsturn an whos mouble of that any through I may speech,
As hor took
And breed her generall't thought it. I hord; I am not
But a world and mine abmediane I thank that trother
State you a phottainted
And was mine own
Is a swill in his
her mine ears
Bear much ways are wows to you.

CITIZENGERS OFFFORD.

WIFFOR, fenstray'd

In my boy

That then you had ma

Epoch: 5/5... Step: 43000... Loss: 1.3113... Val Loss: 1.7474

ExS.

Neward the sight. I hear his moderowing trickens, that I will done
Werely praise my seem.

How not this dearly as you threatoly. Our profonce
Ourselves. Before you thou are to stud,
But I may
Hath persot to preseness, is this,
But say. The challare some great mercify.
Madam, no, that is his moanses met this poise, sir.
KING. Why, thou choose means, sir, and cleanant.
His scorn'd on his foot, my cittle your good.
Hereaply of that I have ye say my firsted.
Ha! do not to hire, had you are backly, so.
CORIOLANUS. A more that that I tave you was to see me;
Her brought men,
Wench'd in that you all that a good father.

RDOUFETIC..]

MOND RICHARD MESSENGER. Ans great sloud the speet his sword.'

For you will be that I have
I hearing, though here's not have beess.
Without my secret truth in. I will so clamony;
Tay the boness.

CLOWN MaRGELL. All had man.

Now an underit about me.

CORIOLANUS. How cangel, where much h

Epoch: 5/5... Step: 44000... Loss: 1.2737... Val Loss: 1.7747

ERIMO.

I did in the pupent, wells.' God'st thou oft hath.

He's hellus! Hence, my lord.

TIMON. I have bring now of thy spouse.

Thou art worthy drusperess save me in him.

SECOND SERVANT. And hath mon'y hand, that his lord

He seck'd on invest his blush with the peacent and here on this bed well;
Against flest in my fat a tancing, and devil?

PETRLIUS. Ay, the lately water to paintientel for frimelit of thy busines
Are deep so devity.

CASSIO

But

Tame is so perfection. Do you sert,

That yet this stable faminess of his handless, my good

To give, id wagen me fnights,

And all to thyep are every seporamorier,

The King's, as I am spot of thee, what's yours.

Dame he is all buring ours won

Do little, of these misicate and more forth.

HE

Epoch: 5/5... Step: 45000... Loss: 1.3016... Val Loss: 1.7620

ERSS. A sea, hapb over let thee on the carring-

In the way

THIus Persperf's have that, means here,

Shall he happy with the saving had be gals hither; with a tessuep; but he did, and faith it
to we will prevail,

Is thet it to you, when these early bind! The noblivenessments: a pursure and sent our own co

The writing of this teeds me bidd me not lives;

In those chose

The witner himself it nature

And tell your lords which begury, be says of my love the wites; for, take me to thy head;

Where is all.

PISTOL. Your commendant how?

CHALLES. The great wife that

Which I will lie he she love.

OCTAVIA. Who cloud'd befurion, then better and son her?

ANTONY. Thou my lord and perceived to best fight borne with the

lengt from your penate with hide wrong father's hate it.

APEMANTUS. To be book me ladying?

IAGO. [To-rooa.

PUCELLE. Why, the feet your fruenly; brave that

Epoch: 5/5... Step: 46000... Loss: 1.5160... Val Loss: 1.7654

ERS.

TYBAN and FORD. Nay, companing and hath deny a pallows are thy mers cature.

If you who see he still-he be servicus!

What is so favou he like an oambster

The heaves a words, and mountets, there. Nockon of courteral once best and destraget a fools

She hand hast. What say my count himself;

I mud him.

MUTIUS. Out.

OTHELLO. Shall my heart boy, my lord-

I can this and sold, and then, then this.

LODOT. And I shall bean befollah'd thee is a thing her courness and a thing at me back we see

I cid and he hand her to-morrow of half him,

Lady cormag'd their children

I will hide hear. If I have any beside there, and his head in the bodied will meet be gorth-

Why shape but thee intentry be cerces,

More neither with a banders awak'st is not th' peef

Have bury with me.

Exit SENGSTES. Streets

My bollows, my Loringbanom'd, so we are anythink falia

That th

Epoch: 5/5... Step: 47000... Loss: 1.3326... Val Loss: 1.7541

ERSTONKANT. Here her friends, three sire, then she trunk

In her?

MRS. FIRLE OF SIRD JULBEW with my vies the shores in the gates, then, as much trulice, my matt

SHALLOW. Why would no her lands our sleet it,

But she's behime, my mather's

hath deep in the leave with the thing him

Will some villain.

FORD. I say! I will see us no mercy, sir, my lord?

Exeunt Kisses for his.

SIMONIDE.

O have infind they may so much it their subject of lovely as I might my time!

SHALLOW. Farewell.

FRIAR LAQUDBe Rome!

MRS.

From here itsels, she litter, sir? Accusinal by my heart sun,

Will take her shall my sands it had none death with cloopent, and such mine true, then
it the good new wrestly?

BESTARD. O, come to death?

It do sithers' three.

SCENE II.

I see the better, he lie treasure me? Great in his drease

With that then will I spirit, it shim a two the tirge trius, bross'd in her,

And balls, sir, his bird,

The come and in

Epoch: 5/5... Step: 48000... Loss: 1.4552... Val Loss: 1.7320

ERSZONG.

Well, thou are crowned from as I would tell me to sew all. Likish of your father.

SAY. What, hath so we thou stomour with their mouthine. I have done, bring, be his twices.

Scene IMOGEN, and SECOND GLOUCESTER. Ay, with such well country measce
Who but, and he colours, intile.

FREDULTHE. The weed afters beholding, come how make a comes
Again me sons happy show,
In this tert, all this wrong unto this lie.

LYSIUS. There's son of that a glass with his house
Croture, his darented, tell misign!

Ah, I have, this maition a maiden
Them?

Why, will nother hast thou art wind me.
Sound after the weightraine he will some teeth

ANTONY. Thou dost so fraitor, think! I know now. But and would no morely haught a patience!
As seek you wisely bones! O earnest pardon sir at a brother's staber and stomach heaven, hit
CELIA. The finter it in a stoous?

LYSIMACARE, and other.

So will come, sir, hild tights are not me then