Shakespeare_script_gen

Result

We use the following parameters:

```
state_size = 100,
num_classes = vocab_size,
batch_size = 32,
num_steps = 80,
num_layers = 3,
learning_rate = 1e-4:
epochs = 20
```

The generated Shakespeare-like script is

```
HIRI OF ICHERD:
Hell bees should but ance thee,
And shestall that hean heave houng shourded one
thy sollook see that a more tay see how,
There a sechich a masters olly the cournt on hear the chear,
And menting triendy and my sellond, then the best the
That saless the compined his madester.
KING LARENLO:
No see, are songess oun horghand hast on arters.
GLOUMEREN RIO:
He sall'd that thing to be call, a sourth, trick tood.
LEONTER:
That so dost, there hast a wime of a till a mant.
KING II:
A mister, were with his will strang thas witio well thit
And the woor that wish a that he than, hath his are.
With, sill thou tall stele thow sto seed a sucented,
I wisth mest in the will mastied that,
For to the seed tay warth have trenent
An
```

This is an example of the training Shakespeare script:

```
HASTINGS:
So thrive I, as I truly swear the like!

KING EDWARD IV:
Take heed you dally not before your king;
```

https://github.com/KexinFeng/Shakespeare script gen

Lest he that is the supreme King of kings Confound your hidden falsehood, and award Either of you to be the other's end.

HASTINGS:

So prosper I, as I swear perfect love!

RIVERS:

And I, as I love Hastings with my heart!

KING EDWARD IV:

Madam, yourself are not exempt in this, Nor your son Dorset, Buckingham, nor you; You have been factious one against the other, Wife, love Lord Hastings, let him kiss your hand; And what you do, do it unfeignedly.

QUEEN ELIZABETH:

Here, Hastings; I will never more remember Our former hatred, so thrive I and mine!

KING EDWARD IV:

Dorset, embrace him; Hastings, love lord marquess.

We can see that the similarity between the generated text and the original one is almost to the level words. But the generated text still have too many misspelled words. A comparison can be drawn with the known Karpathy's Shakespeare results (http://karpathy.github.io/2015/05/21/rnn-effectiveness/#shakespeare). There the text is much more readable. The difference is that the hidden unit size (ie state_size) he uses is 512, while mine is 100 for the sake of saving time consumption. Also he uses a much larger corpus, while mine is a tiny version of the Shakespeare script. So this model is expected to have better performance with more parameters and larger data set.