Text Generation

source

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Let's import the classes and functions we intend to use to train our model.

```
#!pip install Keras
import numpy
import keras

from keras.models import Sequential
from keras.layers import Dense
from keras.layers import Dropout
from keras.layers import LSTM
from keras.callbacks import ModelCheckpoint
from keras.utils import np_utils
```

```
Using TensorFlow backend.
```

The default version of TensorFlow in Colab will soon switch to TensorFlow 2.x.
We recommend you upgrade now or ensure your notebook will continue to use TensorFlow 1.x via

Load the ASCII text for the book into memory and convert all of the characters to lowercase learn.

```
# load ascii text and covert to lowercase
filename = "fernando-pessoa.txt"
raw_text = open(filename, 'r', encoding='utf-8').read()
raw_text = raw_text.lower()
```

Now that the book is loaded, we must prepare the data for modeling by the neural network. ' must convert the characters to integers.

We can do this easily by first creating a set of all of the distinct characters in the book, then integer.

```
# create mapping of unique chars to integers
chars = sorted(list(set(raw_text)))
```