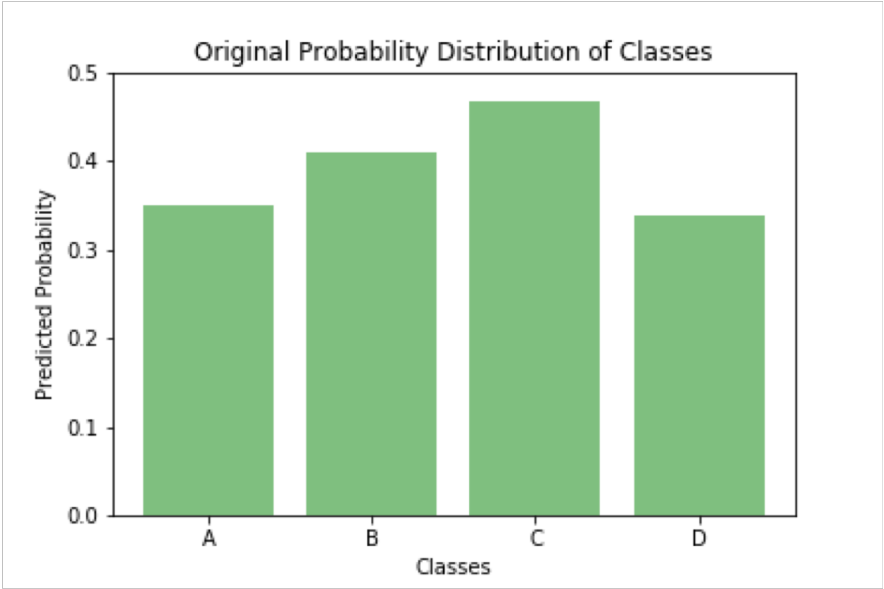


# Sampling with Diversity

Uses “temperature” to alter the probability distribution of the potential tokens that we randomly sample from to allow for more (or less) stochasticity in model predictions.

$temperature \left\{ \begin{array}{l} > 1, \text{more diversity} \\ = 1, \text{no diversity} \\ < 1, \text{less diversity} \end{array} \right.$



The array of predicted probabilities for each class then becomes:

$$p_i = \frac{\exp(\frac{\widehat{probas}}{temperature})}{\sum \exp(\frac{\widehat{probas}}{temperature})}$$

## Temperature

