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Tools

- Tensorflow 2.x
- Keras
- Python 3.x

Model Configuration

```
tf.keras.layers.Dense(512, activation='relu'),  
tf.keras.layers.Dropout(0.2),  
tf.keras.layers.Dense(1024, activation='relu'),  
tf.keras.layers.Dropout(0.2),  
tf.keras.layers.Dense(CLASS_SIZE, activation='softmax')
```

Observation

This is a basic classification problem of FizzBuzz with 4 classes, training on [101, 1000] & testing on [1, 100].

Points:

- Model with Encoding Base = 2 takes longer to converge than Encoding Base = 3
- Accuracy with 1000 Epochs is 100 % on test data
- Increasing the number of levels in the model did not achieve 100 % accuracy on the test data