

tf.multinomial

```
multinomial(  
    logits,  
    num_samples,  
    seed=None,  
    name=None  
)
```

Defined in [tensorflow/python/ops/random_ops.py](#).

See the guide: [Constants, Sequences, and Random Values > Random Tensors](#)

Draws samples from a multinomial distribution.

Example:

```
# samples has shape [1, 5], where each value is either 0 or 1 with equal  
# probability.  
samples = tf.multinomial(tf.log([[10., 10.]]), 5)
```

Args:

- **logits**: 2-D Tensor with shape `[batch_size, num_classes]`. Each slice `[i, :]` represents the unnormalized log-probabilities for all classes.
- **num_samples**: 0-D. Number of independent samples to draw for each row slice.
- **seed**: A Python integer. Used to create a random seed for the distribution. See [tf.set_random_seed](#) for behavior.
- **name**: Optional name for the operation.

Returns:

The drawn samples of shape `[batch_size, num_samples]`.

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