

tf.random_poisson

```
random_poisson(  
    lam,  
    shape,  
    dtype=tf.float32,  
    seed=None,  
    name=None  
)
```

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

Draws **shape** samples from each of the given Poisson distribution(s).

lam is the rate parameter describing the distribution(s).

Example:

`samples = tf.random_poisson([0.5, 1.5], [10])` # samples has shape [10, 2], where each slice `[:, 0]` and `[:, 1]` represents # the samples drawn from each distribution

`samples = tf.random_poisson([12.2, 3.3], [7, 5])` # samples has shape [7, 5, 2], where each slice `[:, :, 0]` and `[:, :, 1]` # represents the 7x5 samples drawn from each of the two distributions

Args:

- **lam**: A Tensor or Python value or N-D array of type **dtype**. **lam** provides the rate parameter(s) describing the poisson distribution(s) to sample.
- **shape**: A 1-D integer Tensor or Python array. The shape of the output samples to be drawn per "rate"-parameterized distribution.
- **dtype**: The type of **lam** and the output: **float16**, **float32**, or **float64**.
- **seed**: A Python integer. Used to create a random seed for the distributions. See [tf.set_random_seed](#) for behavior.
- **name**: Optional name for the operation.

Returns:

- **samples**: a **Tensor** of shape `tf.concat(shape, tf.shape(lam))` with values of type **dtype**.

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