

Module: tf.distributions

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

Core module for TensorFlow distribution objects and helpers.

Modules

[bijectors](#) module: Core module for TensorFlow distribution bijectors.

Classes

[class Bernoulli](#) : Bernoulli distribution.

[class Beta](#) : Beta distribution.

[class Categorical](#) : Categorical distribution.

[class Dirichlet](#) : Dirichlet distribution.

[class DirichletMultinomial](#) : Dirichlet-Multinomial compound distribution.

[class Distribution](#) : A generic probability distribution base class.

[class Exponential](#) : Exponential distribution.

[class Gamma](#) : Gamma distribution.

[class Laplace](#) : The Laplace distribution with location `loc` and `scale` parameters.

[class Multinomial](#) : Multinomial distribution.

[class Normal](#) : The Normal distribution with location `loc` and `scale` parameters.

[class RegisterKL](#) : Decorator to register a KL divergence implementation function.

[class ReparameterizationType](#) : Instances of this class represent how sampling is reparameterized.

[class StudentT](#) : Student's t-distribution.

[class Uniform](#) : Uniform distribution with `low` and `high` parameters.

Functions

[kl_divergence\(...\)](#) : Get the KL-divergence $KL(\text{distribution_a} \parallel \text{distribution_b})$.

Other Members

FULLY_REPARAMETERIZED

NOT_REPARAMETERIZED

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