

## tf.contrib.bayesflow.csiszar\_divergence.triangular

```
triangular(  
    logu,  
    name=None  
)
```

Defined in [tensorflow/contrib/bayesflow/python/ops/csiszar\\_divergence\\_impl.py](#).

The Triangular Csiszar-function in log-space.


A Csiszar-function is a member of,

$$F = \{ f: \mathbb{R}_+ \rightarrow \mathbb{R} : f \text{ convex} \}.$$

The Triangular Csiszar-function is:

$$f(u) = (u - 1)^2 / (1 + u)$$

This Csiszar-function induces a symmetric f-Divergence, i.e.,  $D_f[p, q] = D_f[q, p]$ .

 **Warning:** this function makes non-log-space calculations and may therefore be numerically unstable for  $|\log u| \gg 0$ .

### Args:

- `logu`: `float`-like `Tensor` representing `log(u)` from above.
- `name`: Python `str` name prefixed to Ops created by this function.

### Returns:

- `triangular_of_u`: `float`-like `Tensor` of the Csiszar-function evaluated at `u = exp(logu)`.

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