TancarFlow

TensorFlow API r1.4

tf.contrib.bayesflow.csiszar\_divergence.total\_variation

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

Defined in tensorflow/contrib/bayesflow/python/ops/csiszar\_divergence\_impl.py.

The Total Variation Csiszar-function in log-space.

A Csiszar-function is a member of,

```
F = \{ f:R_+ \text{ to } R : f \text{ convex } \}.
```

The Total-Variation Csiszar-function is:

```
f(u) = 0.5 |u - 1|
```



Warning: this function makes non-log-space calculations and may therefore be numerically unstable for |logu| >> 0.

## Args:

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

## Returns:

• total\_variation\_of\_u: float -like Tensor of the Csiszar-function evaluated at u = exp(logu).

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