

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

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

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

The Pearson Csiszar-function in log-space.

A Csiszar-function is a member of,

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

The Pearson Csiszar-function is:

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



**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:

- `pearson_of_u`: **float**-like **Tensor** of the Csiszar-function evaluated at  $u = \exp(\log u)$ .

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