

tf.contrib.bayesflow.csiszar_divergence.squared_hellinger

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

Defined in [tensorflow/contrib/bayesflow/python/ops/csiszar_divergence_impl.py](#).

The Squared-Hellinger Csiszar-function in log-space.


A Csiszar-function is a member of,

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

The Squared-Hellinger Csiszar-function is:

$$f(u) = (\sqrt{u} - 1)^2$$

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:

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

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