

tf.contrib.layers.apply_regularization

```
apply_regularization(  
    regularizer,  
    weights_list=None  
)
```

Defined in [tensorflow/contrib/layers/python/layers/regularizers.py](#).

See the guide: [Layers \(contrib\) > Regularizers](#)

Returns the summed penalty by applying **regularizer** to the **weights_list**.

Adding a regularization penalty over the layer weights and embedding weights can help prevent overfitting the training data. Regularization over layer biases is less common/useful, but assuming proper data preprocessing/mean subtraction, it usually shouldn't hurt much either.

Args:

- **regularizer**: A function that takes a single **Tensor** argument and returns a scalar **Tensor** output.
- **weights_list**: List of weights **Tensors** or **Variables** to apply **regularizer** over. Defaults to the **GraphKeys.WEIGHTS** collection if **None**.

Returns:

A scalar representing the overall regularization penalty.

Raises:

- **ValueError**: If **regularizer** does not return a scalar output, or if we find no weights.

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