

## tf.contrib.layers.real\_valued\_column

```
real_valued_column(  
    column_name,  
    dimension=1,  
    default_value=None,  
    dtype=tf.float32,  
    normalizer=None  
)
```

Defined in [tensorflow/contrib/layers/python/layers/feature\\_column.py](#).

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

Creates a `_RealValuedColumn` for dense numeric data.

## Args:

- `column_name`: A string defining real valued column name.
- `dimension`: An integer specifying dimension of the real valued column. The default is 1.
- `default_value`: A single value compatible with dtype or a list of values compatible with dtype which the column takes on during tf.Example parsing if data is missing. When dimension is not None, a default value of None will cause tf.parse\_example to fail if an example does not contain this column. If a single value is provided, the same value will be applied as the default value for every dimension. If a list of values is provided, the length of the list should be equal to the value of `dimension`. Only scalar default value is supported in case dimension is not specified.
- `dtype`: defines the type of values. Default value is tf.float32. Must be a non-quantized, real integer or floating point type.
- `normalizer`: If not None, a function that can be used to normalize the value of the real valued column after default\_value is applied for parsing. Normalizer function takes the input tensor as its argument, and returns the output tensor. (e.g. lambda x: (x - 3.0) / 4.2). Note that for variable length columns, the normalizer should expect an input\_tensor of type `SparseTensor`.

## Returns:

A `_RealValuedColumn`.

## Raises:

- `TypeError`: if dimension is not an int
- `ValueError`: if dimension is not a positive integer
- `TypeError`: if default\_value is a list but its length is not equal to the value of `dimension`.
- `TypeError`: if default\_value is not compatible with dtype.
- `ValueError`: if dtype is not convertible to tf.float32.

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