

tf.nn.xw_plus_b

```
xw_plus_b(  
    x,  
    weights,  
    biases,  
    name=None  
)
```

Defined in [tensorflow/python/ops/nn_ops.py](#).

Computes $\text{matmul}(x, \text{weights}) + \text{biases}$.

Args:

- `x`: a 2D tensor. Dimensions typically: batch, in_units
- `weights`: a 2D tensor. Dimensions typically: in_units, out_units
- `biases`: a 1D tensor. Dimensions: out_units
- `name`: A name for the operation (optional). If not specified "xw_plus_b" is used.

Returns:

A 2-D Tensor computing $\text{matmul}(x, \text{weights}) + \text{biases}$. Dimensions typically: batch, out_units.

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