

tf.scalar_mul

```
scalar_mul(  
    scalar,  
    x  
)
```

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

See the guide: [Math > Arithmetic Operators](#)

Multiplies a scalar times a `Tensor` or `IndexedSlices` object.

Intended for use in gradient code which might deal with `IndexedSlices` objects, which are easy to multiply by a scalar but more expensive to multiply with arbitrary tensors.

Args:

- `scalar`: A 0-D scalar `Tensor`. Must have known shape.
- `x`: A `Tensor` or `IndexedSlices` to be scaled.

Returns:

`scalar * x` of the same type (`Tensor` or `IndexedSlices`) as `x`.

Raises:

- `ValueError`: if scalar is not a 0-D `scalar`.

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