

tf.polygamma

```
polygamma(  
    a,  
    x,  
    name=None  
)
```

Defined in `tensorflow/python/ops/gen_math_ops.py`.

See the guide: [Math > Basic Math Functions](#)

Compute the polygamma function $\psi^{(n)}(x)$.

The polygamma function is defined as:

$$\psi^{(n)}(x) = \frac{d^n}{dx^n} \psi(x)$$

where $\psi(x)$ is the digamma function.

Args:

- `a`: A `Tensor`. Must be one of the following types: `float32`, `float64`.
- `x`: A `Tensor`. Must have the same type as `a`.
- `name`: A name for the operation (optional).

Returns:

A `Tensor`. Has the same type as `a`.

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