

## tf.fft3d

## Contents

## Aliases:

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- `tf.fft3d`
- `tf.spectral.fft3d`

```
fft3d(  
    input,  
    name=None  
)
```

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

See the guide: [Spectral Functions > Discrete Fourier Transforms](#)

3D fast Fourier transform.

Computes the 3-dimensional discrete Fourier transform over the inner-most 3 dimensions of `input`.

## Args:

- `input`: A **Tensor** of type `complex64`. A complex64 tensor.
- `name`: A name for the operation (optional).

## Returns:

A **Tensor** of type `complex64`. A complex64 tensor of the same shape as `input`. The inner-most 3 dimensions of `input` are replaced with their 3D Fourier transform.

## numpy compatibility

Equivalent to `np.fft.fftn` with 3 dimensions.

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