

## tf.fft

## Contents

## Aliases:

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- `tf.fft`
- `tf.spectral.fft`

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

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

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

Fast Fourier transform.

Computes the 1-dimensional discrete Fourier transform over the inner-most dimension 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 dimension of `input` is replaced with its 1D Fourier transform.

## numpy compatibility

Equivalent to `np.fft.fft`

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