## TancarFlow

TensorFlow API r1.4

tf.spectral.irfft

```
irfft(
   input_tensor,
   fft_length=None,
   name=None
)
```

Defined in tensorflow/python/ops/spectral\_ops.py.

See the guide: Spectral Functions > Discrete Fourier Transforms

Inverse real-valued fast Fourier transform.

Computes the inverse 1-dimensional discrete Fourier transform of a real-valued signal over the inner-most dimension of **input**.

The inner-most dimension of input is assumed to be the result of RFFT: the fft\_length / 2 + 1 unique components of the DFT of a real-valued signal. If fft\_length is not provided, it is computed from the size of the inner-most dimension of input (fft\_length = 2 \* (inner - 1)). If the FFT length used to compute input is odd, it should be provided since it cannot be inferred properly.

Along the axis IRFFT is computed on, if fft\_length / 2 + 1 is smaller than the corresponding dimension of input, the dimension is cropped. If it is larger, the dimension is padded with zeros.

## Args:

- input: A Tensor of type complex64. A complex64 tensor.
- fft\_length: A Tensor of type int32. An int32 tensor of shape [1]. The FFT length.
- name: A name for the operation (optional).

## Returns:

A **Tensor** of type **float32**. A float32 tensor of the same rank as **input**. The inner-most dimension of **input** is replaced with the **fft\_length** samples of its inverse 1D Fourier transform.

numpy compatibility

Equivalent to np.fft.irfft

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