

About Keras layers

All Keras layers have a number of methods in common:

- `layer.get_weights()` : returns the weights of the layer as a list of Numpy arrays.
- `layer.set_weights(weights)` : sets the weights of the layer from a list of Numpy arrays (with the same shapes as the output of `get_weights`).
- `layer.get_config()` : returns a dictionary containing the configuration of the layer. The layer can be reinstantiated from its config via:

```
from keras.utils.layer_utils import layer_from_config

config = layer.get_config()
layer = layer_from_config(config)
```

If a layer has a single node (i.e. if it isn't a shared layer), you can get its input tensor, output tensor, input shape and output shape via:

- `layer.input`
- `layer.output`
- `layer.input_shape`
- `layer.output_shape`

If the layer has multiple nodes (see: [the concept of layer node and shared layers](#)), you can use the following methods:

- `layer.get_input_at(node_index)`
- `layer.get_output_at(node_index)`
- `layer.get_input_shape_at(node_index)`
- `layer.get_output_shape_at(node_index)`