

tf.keras.optimizers.Optimizer

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Class Optimizer

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`__init__``from_config`Class **Optimizer**Defined in `tensorflow/python/keras/_impl/keras/optimizers.py`.

Abstract optimizer base class.

★ **Note:** this is the parent class of all optimizers, not an actual optimizer that can be used for training models.

All Keras optimizers support the following keyword arguments:

```
clipnorm: float >= 0. Gradients will be clipped
           when their L2 norm exceeds this value.
clipvalue: float >= 0. Gradients will be clipped
           when their absolute value exceeds this value.
```

Methods

`__init__`

```
__init__(**kwargs)
```

`from_config`

```
@classmethod
from_config(
    cls,
    config
)
```

`get_config`

```
get_config()
```

`get_gradients`

```
get_gradients(  
    loss,  
    params  
)
```

get_updates

```
get_updates(  
    loss,  
    params  
)
```

get_weights

```
get_weights()
```

Returns the current value of the weights of the optimizer.

Returns:

A list of numpy arrays.

set_weights

```
set_weights(weights)
```

Sets the weights of the optimizer, from Numpy arrays.

Should only be called after computing the gradients (otherwise the optimizer has no weights).

Arguments:

- **weights**: a list of Numpy arrays. The number of arrays and their shape must match number of the dimensions of the weights of the optimizer (i.e. it should match the output of **get_weights**).

Raises:

- **ValueError**: in case of incompatible weight shapes.

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