

tf.keras.optimizers.Adamax

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Class Adamax

Inherits From: [Optimizer](#)

Defined in [tensorflow/python/keras/_impl/keras/optimizers.py](#).

Adamax optimizer from Adam paper's Section 7.

It is a variant of Adam based on the infinity norm. Default parameters follow those provided in the paper.

Arguments:

- `lr`: float ≥ 0 . Learning rate. `beta_1/beta_2`: floats, $0 < \text{beta} < 1$. Generally close to 1.
- `epsilon`: float ≥ 0 . Fuzz factor.
- `decay`: float ≥ 0 . Learning rate decay over each update.

References: - [Adam - A Method for Stochastic Optimization](#)

Methods

`__init__`

```
__init__(  
    lr=0.002,  
    beta_1=0.9,  
    beta_2=0.999,  
    epsilon=1e-08,  
    decay=0.0,  
    **kwargs  
)
```

`from_config`

```
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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