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# Optimization functions

## SGD & ASGD

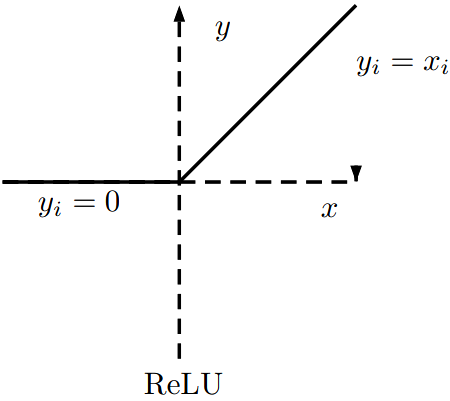
## Adam

## RMSprop

# Activation functions

# Loss functions

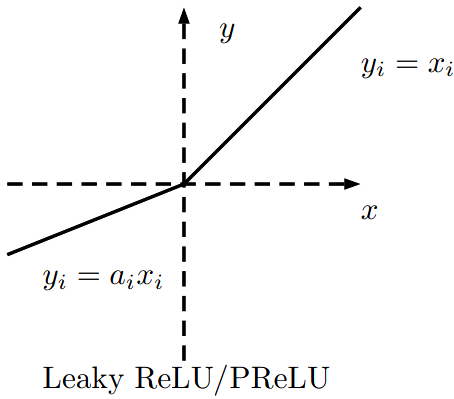
## ReLU & Leaky ReLU (rectified linear unit)



*Picture \*\*\*: Leaky ReLU activation function* ([*Bing Xu, Naiyan Wang, Tianqi Chen, Mu Li. Empirical Evaluation of Rectified Activations in Convolutional Network. 2017*](https://arxiv.org/abs/1505.00853)*)*

## Leaky ReLU (leaky rectified linear unit)

* ‘negSlope’ - angle of the negative slope.



*Picture \*\*\*: Leaky ReLU activation function* ([*Bing Xu, Naiyan Wang, Tianqi Chen, Mu Li. Empirical Evaluation of Rectified Activations in Convolutional Network. 2017*](https://arxiv.org/abs/1505.00853)*)*

# Bibliography

1. [*Bing Xu, Naiyan Wang, Tianqi Chen, Mu Li. Empirical Evaluation of Rectified Activations in Convolutional Network. 2017*](https://arxiv.org/abs/1505.00853)