JavaScript is disabled on your browser.

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Tree](http://docs.google.com/package-tree.html)
* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* [Prev Class](http://docs.google.com/org/opencv/dnn/Dnn.html)
* [Next Class](http://docs.google.com/org/opencv/dnn/Net.html)
* [Frames](http://docs.google.com/index.html?org/opencv/dnn/Layer.html)
* [No Frames](http://docs.google.com/Layer.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* Field |
* Constr |
* [Method](#3znysh7)
* Detail:
* Field |
* Constr |
* [Method](#3dy6vkm)

org.opencv.dnn

## Class Layer

* java.lang.Object
  + [org.opencv.core.Algorithm](http://docs.google.com/org/opencv/core/Algorithm.html)
    - org.opencv.dnn.Layer
* public class Layer  
  extends [Algorithm](http://docs.google.com/org/opencv/core/Algorithm.html)  
  This interface class allows to build new Layers - are building blocks of networks. Each class, derived from Layer, must implement allocate() methods to declare own outputs and forward() to compute outputs. Also before using the new layer into networks you must register your layer by using one of REF: dnnLayerFactory "LayerFactory" macros.

### Method SummaryMethods

| Modifier and Type | Method and Description |
| --- | --- |
| static [Layer](http://docs.google.com/org/opencv/dnn/Layer.html) | [**\_\_fromPtr\_\_**](http://docs.google.com/org/opencv/dnn/Layer.html#__fromPtr__(long))(long addr) |
| void | [**finalize**](http://docs.google.com/org/opencv/dnn/Layer.html#finalize(java.util.List,%20java.util.List))(java.util.List<[Mat](http://docs.google.com/org/opencv/core/Mat.html)> inputs, java.util.List<[Mat](http://docs.google.com/org/opencv/core/Mat.html)> outputs) Computes and sets internal parameters according to inputs, outputs and blobs. |
| java.util.List<[Mat](http://docs.google.com/org/opencv/core/Mat.html)> | [**get\_blobs**](http://docs.google.com/org/opencv/dnn/Layer.html#get_blobs())() |
| java.lang.String | [**get\_name**](http://docs.google.com/org/opencv/dnn/Layer.html#get_name())() |
| int | [**get\_preferableTarget**](http://docs.google.com/org/opencv/dnn/Layer.html#get_preferableTarget())() |
| java.lang.String | [**get\_type**](http://docs.google.com/org/opencv/dnn/Layer.html#get_type())() |
| int | [**outputNameToIndex**](http://docs.google.com/org/opencv/dnn/Layer.html#outputNameToIndex(java.lang.String))(java.lang.String outputName) Returns index of output blob in output array. |
| void | [**set\_blobs**](http://docs.google.com/org/opencv/dnn/Layer.html#set_blobs(java.util.List))(java.util.List<[Mat](http://docs.google.com/org/opencv/core/Mat.html)> blobs) |

### Methods inherited from class org.opencv.core.[**Algorithm**](http://docs.google.com/org/opencv/core/Algorithm.html)[clear](http://docs.google.com/org/opencv/core/Algorithm.html#clear()), [empty](http://docs.google.com/org/opencv/core/Algorithm.html#empty()), [getDefaultName](http://docs.google.com/org/opencv/core/Algorithm.html#getDefaultName()), [getNativeObjAddr](http://docs.google.com/org/opencv/core/Algorithm.html#getNativeObjAddr()), [save](http://docs.google.com/org/opencv/core/Algorithm.html#save(java.lang.String))

### Methods inherited from class java.lang.Objectequals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

### Method Detail

#### \_\_fromPtr\_\_ public static [Layer](http://docs.google.com/org/opencv/dnn/Layer.html) \_\_fromPtr\_\_(long addr)

#### finalize public void finalize(java.util.List<[Mat](http://docs.google.com/org/opencv/core/Mat.html)> inputs, java.util.List<[Mat](http://docs.google.com/org/opencv/core/Mat.html)> outputs) Computes and sets internal parameters according to inputs, outputs and blobs.Parameters:outputs - vector of already allocated output blobs If this method is called after network has allocated all memory for input and output blobs and before inferencing.inputs - automatically generated

#### get\_blobs public java.util.List<[Mat](http://docs.google.com/org/opencv/core/Mat.html)> get\_blobs()

#### get\_name public java.lang.String get\_name()

#### get\_preferableTarget public int get\_preferableTarget()

#### get\_type public java.lang.String get\_type()

#### outputNameToIndex public int outputNameToIndex(java.lang.String outputName) Returns index of output blob in output array. SEE: inputNameToIndex()Parameters:outputName - automatically generated Returns:automatically generated

#### set\_blobs public void set\_blobs(java.util.List<[Mat](http://docs.google.com/org/opencv/core/Mat.html)> blobs)

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