JavaScript is disabled on your browser.

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* [Next Class](http://docs.google.com/org/opencv/features2d/BRISK.html)
* [Frames](http://docs.google.com/index.html?org/opencv/features2d/BOWTrainer.html)
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org.opencv.features2d

## Class BOWTrainer

* java.lang.Object
  + org.opencv.features2d.BOWTrainer
* Direct Known Subclasses: [BOWKMeansTrainer](http://docs.google.com/org/opencv/features2d/BOWKMeansTrainer.html)  
    
  public class BOWTrainer  
  extends java.lang.Object  
  Abstract base class for training the \*bag of visual words\* vocabulary from a set of descriptors. For details, see, for example, \*Visual Categorization with Bags of Keypoints\* by Gabriella Csurka, Christopher R. Dance, Lixin Fan, Jutta Willamowski, Cedric Bray, 2004. :

### Method SummaryMethods

| Modifier and Type | Method and Description |
| --- | --- |
| static [BOWTrainer](http://docs.google.com/org/opencv/features2d/BOWTrainer.html) | [**\_\_fromPtr\_\_**](http://docs.google.com/org/opencv/features2d/BOWTrainer.html#__fromPtr__(long))(long addr) |
| void | [**add**](http://docs.google.com/org/opencv/features2d/BOWTrainer.html#add(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) descriptors) Adds descriptors to a training set. |
| void | [**clear**](http://docs.google.com/org/opencv/features2d/BOWTrainer.html#clear())() |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**cluster**](http://docs.google.com/org/opencv/features2d/BOWTrainer.html#cluster())() |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**cluster**](http://docs.google.com/org/opencv/features2d/BOWTrainer.html#cluster(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) descriptors) Clusters train descriptors. |
| int | [**descriptorsCount**](http://docs.google.com/org/opencv/features2d/BOWTrainer.html#descriptorsCount())() Returns the count of all descriptors stored in the training set. |
| java.util.List<[Mat](http://docs.google.com/org/opencv/core/Mat.html)> | [**getDescriptors**](http://docs.google.com/org/opencv/features2d/BOWTrainer.html#getDescriptors())() Returns a training set of descriptors. |
| long | [**getNativeObjAddr**](http://docs.google.com/org/opencv/features2d/BOWTrainer.html#getNativeObjAddr())() |

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

### Method Detail

#### \_\_fromPtr\_\_ public static [BOWTrainer](http://docs.google.com/org/opencv/features2d/BOWTrainer.html) \_\_fromPtr\_\_(long addr)

#### add public void add([Mat](http://docs.google.com/org/opencv/core/Mat.html) descriptors) Adds descriptors to a training set.Parameters:descriptors - Descriptors to add to a training set. Each row of the descriptors matrix is a descriptor. The training set is clustered using clustermethod to construct the vocabulary.

#### clear public void clear()

#### cluster public [Mat](http://docs.google.com/org/opencv/core/Mat.html) cluster()

#### cluster public [Mat](http://docs.google.com/org/opencv/core/Mat.html) cluster([Mat](http://docs.google.com/org/opencv/core/Mat.html) descriptors) Clusters train descriptors.Parameters:descriptors - Descriptors to cluster. Each row of the descriptors matrix is a descriptor. Descriptors are not added to the inner train descriptor set. The vocabulary consists of cluster centers. So, this method returns the vocabulary. In the first variant of the method, train descriptors stored in the object are clustered. In the second variant, input descriptors are clustered. Returns:automatically generated

#### descriptorsCount public int descriptorsCount() Returns the count of all descriptors stored in the training set.Returns:automatically generated

#### getDescriptors public java.util.List<[Mat](http://docs.google.com/org/opencv/core/Mat.html)> getDescriptors() Returns a training set of descriptors.Returns:automatically generated

#### getNativeObjAddr public long getNativeObjAddr()

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