JavaScript is disabled on your browser.

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org.opencv.features2d

## Class BOWKMeansTrainer

* java.lang.Object
  + [org.opencv.features2d.BOWTrainer](http://docs.google.com/org/opencv/features2d/BOWTrainer.html)
    - org.opencv.features2d.BOWKMeansTrainer
* public class BOWKMeansTrainer  
  extends [BOWTrainer](http://docs.google.com/org/opencv/features2d/BOWTrainer.html)  
  kmeans -based class to train visual vocabulary using the \*bag of visual words\* approach. :

### Constructor SummaryConstructors

| Constructor and Description |
| --- |
| [**BOWKMeansTrainer**](http://docs.google.com/org/opencv/features2d/BOWKMeansTrainer.html#BOWKMeansTrainer(int))(int clusterCount) The constructor. |
| [**BOWKMeansTrainer**](http://docs.google.com/org/opencv/features2d/BOWKMeansTrainer.html#BOWKMeansTrainer(int,%20org.opencv.core.TermCriteria))(int clusterCount, [TermCriteria](http://docs.google.com/org/opencv/core/TermCriteria.html) termcrit) The constructor. |
| [**BOWKMeansTrainer**](http://docs.google.com/org/opencv/features2d/BOWKMeansTrainer.html#BOWKMeansTrainer(int,%20org.opencv.core.TermCriteria,%20int))(int clusterCount, [TermCriteria](http://docs.google.com/org/opencv/core/TermCriteria.html) termcrit, int attempts) The constructor. |
| [**BOWKMeansTrainer**](http://docs.google.com/org/opencv/features2d/BOWKMeansTrainer.html#BOWKMeansTrainer(int,%20org.opencv.core.TermCriteria,%20int,%20int))(int clusterCount, [TermCriteria](http://docs.google.com/org/opencv/core/TermCriteria.html) termcrit, int attempts, int flags) The constructor. |

### Method SummaryMethods

| Modifier and Type | Method and Description |
| --- | --- |
| static [BOWKMeansTrainer](http://docs.google.com/org/opencv/features2d/BOWKMeansTrainer.html) | [**\_\_fromPtr\_\_**](http://docs.google.com/org/opencv/features2d/BOWKMeansTrainer.html#__fromPtr__(long))(long addr) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**cluster**](http://docs.google.com/org/opencv/features2d/BOWKMeansTrainer.html#cluster())() |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**cluster**](http://docs.google.com/org/opencv/features2d/BOWKMeansTrainer.html#cluster(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) descriptors) Clusters train descriptors. |

### Methods inherited from class org.opencv.features2d.[**BOWTrainer**](http://docs.google.com/org/opencv/features2d/BOWTrainer.html)[add](http://docs.google.com/org/opencv/features2d/BOWTrainer.html#add(org.opencv.core.Mat)), [clear](http://docs.google.com/org/opencv/features2d/BOWTrainer.html#clear()), [descriptorsCount](http://docs.google.com/org/opencv/features2d/BOWTrainer.html#descriptorsCount()), [getDescriptors](http://docs.google.com/org/opencv/features2d/BOWTrainer.html#getDescriptors()), [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

### Constructor Detail

#### BOWKMeansTrainer public BOWKMeansTrainer(int clusterCount) The constructor. SEE: cv::kmeansParameters:clusterCount - automatically generated

#### BOWKMeansTrainer public BOWKMeansTrainer(int clusterCount, [TermCriteria](http://docs.google.com/org/opencv/core/TermCriteria.html) termcrit) The constructor. SEE: cv::kmeansParameters:clusterCount - automatically generatedtermcrit - automatically generated

#### BOWKMeansTrainer public BOWKMeansTrainer(int clusterCount, [TermCriteria](http://docs.google.com/org/opencv/core/TermCriteria.html) termcrit, int attempts) The constructor. SEE: cv::kmeansParameters:clusterCount - automatically generatedtermcrit - automatically generatedattempts - automatically generated

#### BOWKMeansTrainer public BOWKMeansTrainer(int clusterCount, [TermCriteria](http://docs.google.com/org/opencv/core/TermCriteria.html) termcrit, int attempts, int flags) The constructor. SEE: cv::kmeansParameters:clusterCount - automatically generatedtermcrit - automatically generatedattempts - automatically generatedflags - automatically generated

### Method Detail

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

#### cluster public [Mat](http://docs.google.com/org/opencv/core/Mat.html) cluster()**Overrides:** [cluster](http://docs.google.com/org/opencv/features2d/BOWTrainer.html#cluster()) in class [BOWTrainer](http://docs.google.com/org/opencv/features2d/BOWTrainer.html)

#### cluster public [Mat](http://docs.google.com/org/opencv/core/Mat.html) cluster([Mat](http://docs.google.com/org/opencv/core/Mat.html) descriptors) **Description copied from class:**[**BOWTrainer**](http://docs.google.com/org/opencv/features2d/BOWTrainer.html#cluster(org.opencv.core.Mat)) Clusters train descriptors.**Overrides:** [cluster](http://docs.google.com/org/opencv/features2d/BOWTrainer.html#cluster(org.opencv.core.Mat)) in class [BOWTrainer](http://docs.google.com/org/opencv/features2d/BOWTrainer.html) 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

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