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/features2d/BFMatcher.html)
* [Next Class](http://docs.google.com/org/opencv/features2d/BOWKMeansTrainer.html)
* [Frames](http://docs.google.com/index.html?org/opencv/features2d/BOWImgDescriptorExtractor.html)
* [No Frames](http://docs.google.com/BOWImgDescriptorExtractor.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* Field |
* Constr |
* [Method](#3znysh7)
* Detail:
* Field |
* Constr |
* [Method](#tyjcwt)

org.opencv.features2d

## Class BOWImgDescriptorExtractor

* java.lang.Object
  + org.opencv.features2d.BOWImgDescriptorExtractor
* public class BOWImgDescriptorExtractor  
  extends java.lang.Object  
  Class to compute an image descriptor using the \*bag of visual words\*. Such a computation consists of the following steps: 1. Compute descriptors for a given image and its keypoints set. 2. Find the nearest visual words from the vocabulary for each keypoint descriptor. 3. Compute the bag-of-words image descriptor as is a normalized histogram of vocabulary words encountered in the image. The i-th bin of the histogram is a frequency of i-th word of the vocabulary in the given image.

### Method SummaryMethods

| Modifier and Type | Method and Description |
| --- | --- |
| static [BOWImgDescriptorExtractor](http://docs.google.com/org/opencv/features2d/BOWImgDescriptorExtractor.html) | [**\_\_fromPtr\_\_**](http://docs.google.com/org/opencv/features2d/BOWImgDescriptorExtractor.html#__fromPtr__(long))(long addr) |
| void | [**compute**](http://docs.google.com/org/opencv/features2d/BOWImgDescriptorExtractor.html#compute(org.opencv.core.Mat,%20org.opencv.core.MatOfKeyPoint,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) image, [MatOfKeyPoint](http://docs.google.com/org/opencv/core/MatOfKeyPoint.html) keypoints, [Mat](http://docs.google.com/org/opencv/core/Mat.html) imgDescriptor) |
| int | [**descriptorSize**](http://docs.google.com/org/opencv/features2d/BOWImgDescriptorExtractor.html#descriptorSize())() Returns an image descriptor size if the vocabulary is set. |
| int | [**descriptorType**](http://docs.google.com/org/opencv/features2d/BOWImgDescriptorExtractor.html#descriptorType())() Returns an image descriptor type. |
| long | [**getNativeObjAddr**](http://docs.google.com/org/opencv/features2d/BOWImgDescriptorExtractor.html#getNativeObjAddr())() |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**getVocabulary**](http://docs.google.com/org/opencv/features2d/BOWImgDescriptorExtractor.html#getVocabulary())() Returns the set vocabulary. |
| void | [**setVocabulary**](http://docs.google.com/org/opencv/features2d/BOWImgDescriptorExtractor.html#setVocabulary(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) vocabulary) Sets a visual vocabulary. |

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

### Method Detail

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

#### compute public void compute([Mat](http://docs.google.com/org/opencv/core/Mat.html) image, [MatOfKeyPoint](http://docs.google.com/org/opencv/core/MatOfKeyPoint.html) keypoints, [Mat](http://docs.google.com/org/opencv/core/Mat.html) imgDescriptor)Parameters:imgDescriptor - Computed output image descriptor. pointIdxsOfClusters[i] are keypoint indices that belong to the i -th cluster (word of vocabulary) returned if it is non-zero.image - automatically generatedkeypoints - automatically generated

#### descriptorSize public int descriptorSize() Returns an image descriptor size if the vocabulary is set. Otherwise, it returns 0.Returns:automatically generated

#### descriptorType public int descriptorType() Returns an image descriptor type.Returns:automatically generated

#### getNativeObjAddr public long getNativeObjAddr()

#### getVocabulary public [Mat](http://docs.google.com/org/opencv/core/Mat.html) getVocabulary() Returns the set vocabulary.Returns:automatically generated

#### setVocabulary public void setVocabulary([Mat](http://docs.google.com/org/opencv/core/Mat.html) vocabulary) Sets a visual vocabulary.Parameters:vocabulary - Vocabulary (can be trained using the inheritor of BOWTrainer ). Each row of the vocabulary is a visual word (cluster center).

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