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/GFTTDetector.html)
* [Next Class](http://docs.google.com/org/opencv/features2d/MSER.html)
* [Frames](http://docs.google.com/index.html?org/opencv/features2d/KAZE.html)
* [No Frames](http://docs.google.com/KAZE.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* [Field](#3znysh7) |
* Constr |
* [Method](#2et92p0)
* Detail:
* [Field](#4d34og8) |
* Constr |
* [Method](#lnxbz9)

org.opencv.features2d

## Class KAZE

* java.lang.Object
  + [org.opencv.core.Algorithm](http://docs.google.com/org/opencv/core/Algorithm.html)
    - [org.opencv.features2d.Feature2D](http://docs.google.com/org/opencv/features2d/Feature2D.html)
      * org.opencv.features2d.KAZE
* public class KAZE  
  extends [Feature2D](http://docs.google.com/org/opencv/features2d/Feature2D.html)  
  Class implementing the KAZE keypoint detector and descriptor extractor, described in CITE: ABD12 . **Note:** AKAZE descriptor can only be used with KAZE or AKAZE keypoints .. [ABD12] KAZE Features. Pablo F. Alcantarilla, Adrien Bartoli and Andrew J. Davison. In European Conference on Computer Vision (ECCV), Fiorenze, Italy, October 2012.

### Field SummaryFields

| Modifier and Type | Field and Description |
| --- | --- |
| static int | [**DIFF\_CHARBONNIER**](http://docs.google.com/org/opencv/features2d/KAZE.html#DIFF_CHARBONNIER) |
| static int | [**DIFF\_PM\_G1**](http://docs.google.com/org/opencv/features2d/KAZE.html#DIFF_PM_G1) |
| static int | [**DIFF\_PM\_G2**](http://docs.google.com/org/opencv/features2d/KAZE.html#DIFF_PM_G2) |
| static int | [**DIFF\_WEICKERT**](http://docs.google.com/org/opencv/features2d/KAZE.html#DIFF_WEICKERT) |

### Method SummaryMethods

| Modifier and Type | Method and Description |
| --- | --- |
| static [KAZE](http://docs.google.com/org/opencv/features2d/KAZE.html) | [**\_\_fromPtr\_\_**](http://docs.google.com/org/opencv/features2d/KAZE.html#__fromPtr__(long))(long addr) |
| static [KAZE](http://docs.google.com/org/opencv/features2d/KAZE.html) | [**create**](http://docs.google.com/org/opencv/features2d/KAZE.html#create())() The KAZE constructor DIFF\_CHARBONNIER |
| static [KAZE](http://docs.google.com/org/opencv/features2d/KAZE.html) | [**create**](http://docs.google.com/org/opencv/features2d/KAZE.html#create(boolean))(boolean extended) The KAZE constructor |
| static [KAZE](http://docs.google.com/org/opencv/features2d/KAZE.html) | [**create**](http://docs.google.com/org/opencv/features2d/KAZE.html#create(boolean,%20boolean))(boolean extended, boolean upright) The KAZE constructor |
| static [KAZE](http://docs.google.com/org/opencv/features2d/KAZE.html) | [**create**](http://docs.google.com/org/opencv/features2d/KAZE.html#create(boolean,%20boolean,%20float))(boolean extended, boolean upright, float threshold) The KAZE constructor |
| static [KAZE](http://docs.google.com/org/opencv/features2d/KAZE.html) | [**create**](http://docs.google.com/org/opencv/features2d/KAZE.html#create(boolean,%20boolean,%20float,%20int))(boolean extended, boolean upright, float threshold, int nOctaves) The KAZE constructor |
| static [KAZE](http://docs.google.com/org/opencv/features2d/KAZE.html) | [**create**](http://docs.google.com/org/opencv/features2d/KAZE.html#create(boolean,%20boolean,%20float,%20int,%20int))(boolean extended, boolean upright, float threshold, int nOctaves, int nOctaveLayers) The KAZE constructor |
| static [KAZE](http://docs.google.com/org/opencv/features2d/KAZE.html) | [**create**](http://docs.google.com/org/opencv/features2d/KAZE.html#create(boolean,%20boolean,%20float,%20int,%20int,%20int))(boolean extended, boolean upright, float threshold, int nOctaves, int nOctaveLayers, int diffusivity) The KAZE constructor |
| java.lang.String | [**getDefaultName**](http://docs.google.com/org/opencv/features2d/KAZE.html#getDefaultName())() Returns the algorithm string identifier. |
| int | [**getDiffusivity**](http://docs.google.com/org/opencv/features2d/KAZE.html#getDiffusivity())() |
| boolean | [**getExtended**](http://docs.google.com/org/opencv/features2d/KAZE.html#getExtended())() |
| int | [**getNOctaveLayers**](http://docs.google.com/org/opencv/features2d/KAZE.html#getNOctaveLayers())() |
| int | [**getNOctaves**](http://docs.google.com/org/opencv/features2d/KAZE.html#getNOctaves())() |
| double | [**getThreshold**](http://docs.google.com/org/opencv/features2d/KAZE.html#getThreshold())() |
| boolean | [**getUpright**](http://docs.google.com/org/opencv/features2d/KAZE.html#getUpright())() |
| void | [**setDiffusivity**](http://docs.google.com/org/opencv/features2d/KAZE.html#setDiffusivity(int))(int diff) |
| void | [**setExtended**](http://docs.google.com/org/opencv/features2d/KAZE.html#setExtended(boolean))(boolean extended) |
| void | [**setNOctaveLayers**](http://docs.google.com/org/opencv/features2d/KAZE.html#setNOctaveLayers(int))(int octaveLayers) |
| void | [**setNOctaves**](http://docs.google.com/org/opencv/features2d/KAZE.html#setNOctaves(int))(int octaves) |
| void | [**setThreshold**](http://docs.google.com/org/opencv/features2d/KAZE.html#setThreshold(double))(double threshold) |
| void | [**setUpright**](http://docs.google.com/org/opencv/features2d/KAZE.html#setUpright(boolean))(boolean upright) |

### Methods inherited from class org.opencv.features2d.[**Feature2D**](http://docs.google.com/org/opencv/features2d/Feature2D.html)[compute](http://docs.google.com/org/opencv/features2d/Feature2D.html#compute(java.util.List,%20java.util.List,%20java.util.List)), [compute](http://docs.google.com/org/opencv/features2d/Feature2D.html#compute(org.opencv.core.Mat,%20org.opencv.core.MatOfKeyPoint,%20org.opencv.core.Mat)), [defaultNorm](http://docs.google.com/org/opencv/features2d/Feature2D.html#defaultNorm()), [descriptorSize](http://docs.google.com/org/opencv/features2d/Feature2D.html#descriptorSize()), [descriptorType](http://docs.google.com/org/opencv/features2d/Feature2D.html#descriptorType()), [detect](http://docs.google.com/org/opencv/features2d/Feature2D.html#detect(java.util.List,%20java.util.List)), [detect](http://docs.google.com/org/opencv/features2d/Feature2D.html#detect(java.util.List,%20java.util.List,%20java.util.List)), [detect](http://docs.google.com/org/opencv/features2d/Feature2D.html#detect(org.opencv.core.Mat,%20org.opencv.core.MatOfKeyPoint)), [detect](http://docs.google.com/org/opencv/features2d/Feature2D.html#detect(org.opencv.core.Mat,%20org.opencv.core.MatOfKeyPoint,%20org.opencv.core.Mat)), [detectAndCompute](http://docs.google.com/org/opencv/features2d/Feature2D.html#detectAndCompute(org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.MatOfKeyPoint,%20org.opencv.core.Mat)), [detectAndCompute](http://docs.google.com/org/opencv/features2d/Feature2D.html#detectAndCompute(org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.MatOfKeyPoint,%20org.opencv.core.Mat,%20boolean)), [empty](http://docs.google.com/org/opencv/features2d/Feature2D.html#empty()), [read](http://docs.google.com/org/opencv/features2d/Feature2D.html#read(java.lang.String)), [write](http://docs.google.com/org/opencv/features2d/Feature2D.html#write(java.lang.String))

### 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()), [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

### Field Detail

#### DIFF\_CHARBONNIER public static final int DIFF\_CHARBONNIERSee Also:[Constant Field Values](http://docs.google.com/constant-values.html#org.opencv.features2d.KAZE.DIFF_CHARBONNIER)

#### DIFF\_PM\_G1 public static final int DIFF\_PM\_G1See Also:[Constant Field Values](http://docs.google.com/constant-values.html#org.opencv.features2d.KAZE.DIFF_PM_G1)

#### DIFF\_PM\_G2 public static final int DIFF\_PM\_G2See Also:[Constant Field Values](http://docs.google.com/constant-values.html#org.opencv.features2d.KAZE.DIFF_PM_G2)

#### DIFF\_WEICKERT public static final int DIFF\_WEICKERTSee Also:[Constant Field Values](http://docs.google.com/constant-values.html#org.opencv.features2d.KAZE.DIFF_WEICKERT)

### Method Detail

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

#### create public static [KAZE](http://docs.google.com/org/opencv/features2d/KAZE.html) create() The KAZE constructor DIFF\_CHARBONNIERReturns:automatically generated

#### create public static [KAZE](http://docs.google.com/org/opencv/features2d/KAZE.html) create(boolean extended) The KAZE constructorParameters:extended - Set to enable extraction of extended (128-byte) descriptor. DIFF\_CHARBONNIER Returns:automatically generated

#### create public static [KAZE](http://docs.google.com/org/opencv/features2d/KAZE.html) create(boolean extended, boolean upright) The KAZE constructorParameters:extended - Set to enable extraction of extended (128-byte) descriptor.upright - Set to enable use of upright descriptors (non rotation-invariant). DIFF\_CHARBONNIER Returns:automatically generated

#### create public static [KAZE](http://docs.google.com/org/opencv/features2d/KAZE.html) create(boolean extended, boolean upright, float threshold) The KAZE constructorParameters:extended - Set to enable extraction of extended (128-byte) descriptor.upright - Set to enable use of upright descriptors (non rotation-invariant).threshold - Detector response threshold to accept point DIFF\_CHARBONNIER Returns:automatically generated

#### create public static [KAZE](http://docs.google.com/org/opencv/features2d/KAZE.html) create(boolean extended, boolean upright, float threshold, int nOctaves) The KAZE constructorParameters:extended - Set to enable extraction of extended (128-byte) descriptor.upright - Set to enable use of upright descriptors (non rotation-invariant).threshold - Detector response threshold to accept pointnOctaves - Maximum octave evolution of the image DIFF\_CHARBONNIER Returns:automatically generated

#### create public static [KAZE](http://docs.google.com/org/opencv/features2d/KAZE.html) create(boolean extended, boolean upright, float threshold, int nOctaves, int nOctaveLayers) The KAZE constructorParameters:extended - Set to enable extraction of extended (128-byte) descriptor.upright - Set to enable use of upright descriptors (non rotation-invariant).threshold - Detector response threshold to accept pointnOctaves - Maximum octave evolution of the imagenOctaveLayers - Default number of sublevels per scale level DIFF\_CHARBONNIER Returns:automatically generated

#### create public static [KAZE](http://docs.google.com/org/opencv/features2d/KAZE.html) create(boolean extended, boolean upright, float threshold, int nOctaves, int nOctaveLayers, int diffusivity) The KAZE constructorParameters:extended - Set to enable extraction of extended (128-byte) descriptor.upright - Set to enable use of upright descriptors (non rotation-invariant).threshold - Detector response threshold to accept pointnOctaves - Maximum octave evolution of the imagenOctaveLayers - Default number of sublevels per scale leveldiffusivity - Diffusivity type. DIFF\_PM\_G1, DIFF\_PM\_G2, DIFF\_WEICKERT or DIFF\_CHARBONNIER Returns:automatically generated

#### getDefaultName public java.lang.String getDefaultName() **Description copied from class:**[**Algorithm**](http://docs.google.com/org/opencv/core/Algorithm.html#getDefaultName()) Returns the algorithm string identifier. This string is used as top level xml/yml node tag when the object is saved to a file or string.**Overrides:** [getDefaultName](http://docs.google.com/org/opencv/features2d/Feature2D.html#getDefaultName()) in class [Feature2D](http://docs.google.com/org/opencv/features2d/Feature2D.html) Returns:automatically generated

#### getDiffusivity public int getDiffusivity()

#### getExtended public boolean getExtended()

#### getNOctaveLayers public int getNOctaveLayers()

#### getNOctaves public int getNOctaves()

#### getThreshold public double getThreshold()

#### getUpright public boolean getUpright()

#### setDiffusivity public void setDiffusivity(int diff)

#### setExtended public void setExtended(boolean extended)

#### setNOctaveLayers public void setNOctaveLayers(int octaveLayers)

#### setNOctaves public void setNOctaves(int octaves)

#### setThreshold public void setThreshold(double threshold)

#### setUpright public void setUpright(boolean upright)

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* 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/GFTTDetector.html)
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* [Frames](http://docs.google.com/index.html?org/opencv/features2d/KAZE.html)
* [No Frames](http://docs.google.com/KAZE.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* [Field](#3znysh7) |
* Constr |
* [Method](#2et92p0)
* Detail:
* [Field](#4d34og8) |
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* [Method](#lnxbz9)

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