JavaScript is disabled on your browser.

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org.opencv.core

## Class KeyPoint

* java.lang.Object
  + org.opencv.core.KeyPoint
* public class KeyPoint  
  extends java.lang.Object

### Field SummaryFields

| Modifier and Type | Field and Description |
| --- | --- |
| float | [**angle**](http://docs.google.com/org/opencv/core/KeyPoint.html#angle) Computed orientation of the keypoint (-1 if not applicable). |
| int | [**class\_id**](http://docs.google.com/org/opencv/core/KeyPoint.html#class_id) Object ID, that can be used to cluster keypoints by an object they belong to. |
| int | [**octave**](http://docs.google.com/org/opencv/core/KeyPoint.html#octave) Octave (pyramid layer), from which the keypoint has been extracted. |
| [Point](http://docs.google.com/org/opencv/core/Point.html) | [**pt**](http://docs.google.com/org/opencv/core/KeyPoint.html#pt) Coordinates of the keypoint. |
| float | [**response**](http://docs.google.com/org/opencv/core/KeyPoint.html#response) The response, by which the strongest keypoints have been selected. |
| float | [**size**](http://docs.google.com/org/opencv/core/KeyPoint.html#size) Diameter of the useful keypoint adjacent area. |

### Constructor SummaryConstructors

| Constructor and Description |
| --- |
| [**KeyPoint**](http://docs.google.com/org/opencv/core/KeyPoint.html#KeyPoint())() |
| [**KeyPoint**](http://docs.google.com/org/opencv/core/KeyPoint.html#KeyPoint(float,%20float,%20float))(float x, float y, float \_size) |
| [**KeyPoint**](http://docs.google.com/org/opencv/core/KeyPoint.html#KeyPoint(float,%20float,%20float,%20float))(float x, float y, float \_size, float \_angle) |
| [**KeyPoint**](http://docs.google.com/org/opencv/core/KeyPoint.html#KeyPoint(float,%20float,%20float,%20float,%20float))(float x, float y, float \_size, float \_angle, float \_response) |
| [**KeyPoint**](http://docs.google.com/org/opencv/core/KeyPoint.html#KeyPoint(float,%20float,%20float,%20float,%20float,%20int))(float x, float y, float \_size, float \_angle, float \_response, int \_octave) |
| [**KeyPoint**](http://docs.google.com/org/opencv/core/KeyPoint.html#KeyPoint(float,%20float,%20float,%20float,%20float,%20int,%20int))(float x, float y, float \_size, float \_angle, float \_response, int \_octave, int \_class\_id) |

### Method SummaryMethods

| Modifier and Type | Method and Description |
| --- | --- |
| java.lang.String | [**toString**](http://docs.google.com/org/opencv/core/KeyPoint.html#toString())() |

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

### Field Detail

#### angle public float angle Computed orientation of the keypoint (-1 if not applicable).

#### class\_id public int class\_id Object ID, that can be used to cluster keypoints by an object they belong to.

#### octave public int octave Octave (pyramid layer), from which the keypoint has been extracted.

#### pt public [Point](http://docs.google.com/org/opencv/core/Point.html) pt Coordinates of the keypoint.

#### response public float response The response, by which the strongest keypoints have been selected. Can be used for further sorting or subsampling.

#### size public float size Diameter of the useful keypoint adjacent area.

### Constructor Detail

#### KeyPoint public KeyPoint()

#### KeyPoint public KeyPoint(float x, float y, float \_size)

#### KeyPoint public KeyPoint(float x, float y, float \_size, float \_angle)

#### KeyPoint public KeyPoint(float x, float y, float \_size, float \_angle, float \_response)

#### KeyPoint public KeyPoint(float x, float y, float \_size, float \_angle, float \_response, int \_octave)

#### KeyPoint public KeyPoint(float x, float y, float \_size, float \_angle, float \_response, int \_octave, int \_class\_id)

### Method Detail

#### toString public java.lang.String toString()**Overrides:** toString in class java.lang.Object

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