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/objdetect/Objdetect.html)
* Next Class
* [Frames](http://docs.google.com/index.html?org/opencv/objdetect/QRCodeDetector.html)
* [No Frames](http://docs.google.com/QRCodeDetector.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* Field |
* [Constr](#3znysh7) |
* [Method](#2et92p0)
* Detail:
* Field |
* [Constr](#3dy6vkm) |
* [Method](#4d34og8)

org.opencv.objdetect

## Class QRCodeDetector

* java.lang.Object
  + org.opencv.objdetect.QRCodeDetector
* public class QRCodeDetector  
  extends java.lang.Object  
  Groups the object candidate rectangles. rectList Input/output vector of rectangles. Output vector includes retained and grouped rectangles. (The Python list is not modified in place.) weights Input/output vector of weights of rectangles. Output vector includes weights of retained and grouped rectangles. (The Python list is not modified in place.) groupThreshold Minimum possible number of rectangles minus 1. The threshold is used in a group of rectangles to retain it. eps Relative difference between sides of the rectangles to merge them into a group.

### Constructor SummaryConstructors

| Constructor and Description |
| --- |
| [**QRCodeDetector**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#QRCodeDetector())() |

### Method SummaryMethods

| Modifier and Type | Method and Description |
| --- | --- |
| static [QRCodeDetector](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html) | [**\_\_fromPtr\_\_**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#__fromPtr__(long))(long addr) |
| java.lang.String | [**decode**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#decode(org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points) Decodes QR code in image once it's found by the detect() method. |
| java.lang.String | [**decode**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#decode(org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points, [Mat](http://docs.google.com/org/opencv/core/Mat.html) straight\_qrcode) Decodes QR code in image once it's found by the detect() method. |
| java.lang.String | [**decodeCurved**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#decodeCurved(org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points) Decodes QR code on a curved surface in image once it's found by the detect() method. |
| java.lang.String | [**decodeCurved**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#decodeCurved(org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points, [Mat](http://docs.google.com/org/opencv/core/Mat.html) straight\_qrcode) Decodes QR code on a curved surface in image once it's found by the detect() method. |
| boolean | [**decodeMulti**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#decodeMulti(org.opencv.core.Mat,%20org.opencv.core.Mat,%20java.util.List))([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points, java.util.List<java.lang.String> decoded\_info) Decodes QR codes in image once it's found by the detect() method. |
| boolean | [**decodeMulti**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#decodeMulti(org.opencv.core.Mat,%20org.opencv.core.Mat,%20java.util.List,%20java.util.List))([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points, java.util.List<java.lang.String> decoded\_info, java.util.List<[Mat](http://docs.google.com/org/opencv/core/Mat.html)> straight\_qrcode) Decodes QR codes in image once it's found by the detect() method. |
| boolean | [**detect**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#detect(org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points) Detects QR code in image and returns the quadrangle containing the code. |
| java.lang.String | [**detectAndDecode**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#detectAndDecode(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) img) Both detects and decodes QR code |
| java.lang.String | [**detectAndDecode**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#detectAndDecode(org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points) Both detects and decodes QR code |
| java.lang.String | [**detectAndDecode**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#detectAndDecode(org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points, [Mat](http://docs.google.com/org/opencv/core/Mat.html) straight\_qrcode) Both detects and decodes QR code |
| java.lang.String | [**detectAndDecodeCurved**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#detectAndDecodeCurved(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) img) Both detects and decodes QR code on a curved surface |
| java.lang.String | [**detectAndDecodeCurved**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#detectAndDecodeCurved(org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points) Both detects and decodes QR code on a curved surface |
| java.lang.String | [**detectAndDecodeCurved**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#detectAndDecodeCurved(org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points, [Mat](http://docs.google.com/org/opencv/core/Mat.html) straight\_qrcode) Both detects and decodes QR code on a curved surface |
| boolean | [**detectAndDecodeMulti**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#detectAndDecodeMulti(org.opencv.core.Mat,%20java.util.List))([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, java.util.List<java.lang.String> decoded\_info) Both detects and decodes QR codes |
| boolean | [**detectAndDecodeMulti**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#detectAndDecodeMulti(org.opencv.core.Mat,%20java.util.List,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, java.util.List<java.lang.String> decoded\_info, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points) Both detects and decodes QR codes |
| boolean | [**detectAndDecodeMulti**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#detectAndDecodeMulti(org.opencv.core.Mat,%20java.util.List,%20org.opencv.core.Mat,%20java.util.List))([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, java.util.List<java.lang.String> decoded\_info, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points, java.util.List<[Mat](http://docs.google.com/org/opencv/core/Mat.html)> straight\_qrcode) Both detects and decodes QR codes |
| boolean | [**detectMulti**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#detectMulti(org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points) Detects QR codes in image and returns the vector of the quadrangles containing the codes. |
| long | [**getNativeObjAddr**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#getNativeObjAddr())() |
| void | [**setEpsX**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#setEpsX(double))(double epsX) sets the epsilon used during the horizontal scan of QR code stop marker detection. |
| void | [**setEpsY**](http://docs.google.com/org/opencv/objdetect/QRCodeDetector.html#setEpsY(double))(double epsY) sets the epsilon used during the vertical scan of QR code stop marker detection. |

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

### Constructor Detail

#### QRCodeDetector public QRCodeDetector()

### Method Detail

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

#### decode public java.lang.String decode([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points) Decodes QR code in image once it's found by the detect() method. Returns UTF8-encoded output string or empty string if the code cannot be decoded.Parameters:img - grayscale or color (BGR) image containing QR code.points - Quadrangle vertices found by detect() method (or some other algorithm). Returns:automatically generated

#### decode public java.lang.String decode([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points, [Mat](http://docs.google.com/org/opencv/core/Mat.html) straight\_qrcode) Decodes QR code in image once it's found by the detect() method. Returns UTF8-encoded output string or empty string if the code cannot be decoded.Parameters:img - grayscale or color (BGR) image containing QR code.points - Quadrangle vertices found by detect() method (or some other algorithm).straight\_qrcode - The optional output image containing rectified and binarized QR code Returns:automatically generated

#### decodeCurved public java.lang.String decodeCurved([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points) Decodes QR code on a curved surface in image once it's found by the detect() method. Returns UTF8-encoded output string or empty string if the code cannot be decoded.Parameters:img - grayscale or color (BGR) image containing QR code.points - Quadrangle vertices found by detect() method (or some other algorithm). Returns:automatically generated

#### decodeCurved public java.lang.String decodeCurved([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points, [Mat](http://docs.google.com/org/opencv/core/Mat.html) straight\_qrcode) Decodes QR code on a curved surface in image once it's found by the detect() method. Returns UTF8-encoded output string or empty string if the code cannot be decoded.Parameters:img - grayscale or color (BGR) image containing QR code.points - Quadrangle vertices found by detect() method (or some other algorithm).straight\_qrcode - The optional output image containing rectified and binarized QR code Returns:automatically generated

#### decodeMulti public boolean decodeMulti([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points, java.util.List<java.lang.String> decoded\_info) Decodes QR codes in image once it's found by the detect() method.Parameters:img - grayscale or color (BGR) image containing QR codes.decoded\_info - UTF8-encoded output vector of string or empty vector of string if the codes cannot be decoded.points - vector of Quadrangle vertices found by detect() method (or some other algorithm). Returns:automatically generated

#### decodeMulti public boolean decodeMulti([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points, java.util.List<java.lang.String> decoded\_info, java.util.List<[Mat](http://docs.google.com/org/opencv/core/Mat.html)> straight\_qrcode) Decodes QR codes in image once it's found by the detect() method.Parameters:img - grayscale or color (BGR) image containing QR codes.decoded\_info - UTF8-encoded output vector of string or empty vector of string if the codes cannot be decoded.points - vector of Quadrangle vertices found by detect() method (or some other algorithm).straight\_qrcode - The optional output vector of images containing rectified and binarized QR codes Returns:automatically generated

#### detect public boolean detect([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points) Detects QR code in image and returns the quadrangle containing the code.Parameters:img - grayscale or color (BGR) image containing (or not) QR code.points - Output vector of vertices of the minimum-area quadrangle containing the code. Returns:automatically generated

#### detectAndDecode public java.lang.String detectAndDecode([Mat](http://docs.google.com/org/opencv/core/Mat.html) img) Both detects and decodes QR codeParameters:img - grayscale or color (BGR) image containing QR code. Returns:automatically generated

#### detectAndDecode public java.lang.String detectAndDecode([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points) Both detects and decodes QR codeParameters:img - grayscale or color (BGR) image containing QR code.points - optional output array of vertices of the found QR code quadrangle. Will be empty if not found. Returns:automatically generated

#### detectAndDecode public java.lang.String detectAndDecode([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points, [Mat](http://docs.google.com/org/opencv/core/Mat.html) straight\_qrcode) Both detects and decodes QR codeParameters:img - grayscale or color (BGR) image containing QR code.points - optional output array of vertices of the found QR code quadrangle. Will be empty if not found.straight\_qrcode - The optional output image containing rectified and binarized QR code Returns:automatically generated

#### detectAndDecodeCurved public java.lang.String detectAndDecodeCurved([Mat](http://docs.google.com/org/opencv/core/Mat.html) img) Both detects and decodes QR code on a curved surfaceParameters:img - grayscale or color (BGR) image containing QR code. Returns:automatically generated

#### detectAndDecodeCurved public java.lang.String detectAndDecodeCurved([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points) Both detects and decodes QR code on a curved surfaceParameters:img - grayscale or color (BGR) image containing QR code.points - optional output array of vertices of the found QR code quadrangle. Will be empty if not found. Returns:automatically generated

#### detectAndDecodeCurved public java.lang.String detectAndDecodeCurved([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points, [Mat](http://docs.google.com/org/opencv/core/Mat.html) straight\_qrcode) Both detects and decodes QR code on a curved surfaceParameters:img - grayscale or color (BGR) image containing QR code.points - optional output array of vertices of the found QR code quadrangle. Will be empty if not found.straight\_qrcode - The optional output image containing rectified and binarized QR code Returns:automatically generated

#### detectAndDecodeMulti public boolean detectAndDecodeMulti([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, java.util.List<java.lang.String> decoded\_info) Both detects and decodes QR codesParameters:img - grayscale or color (BGR) image containing QR codes.decoded\_info - UTF8-encoded output vector of string or empty vector of string if the codes cannot be decoded. Returns:automatically generated

#### detectAndDecodeMulti public boolean detectAndDecodeMulti([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, java.util.List<java.lang.String> decoded\_info, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points) Both detects and decodes QR codesParameters:img - grayscale or color (BGR) image containing QR codes.decoded\_info - UTF8-encoded output vector of string or empty vector of string if the codes cannot be decoded.points - optional output vector of vertices of the found QR code quadrangles. Will be empty if not found. Returns:automatically generated

#### detectAndDecodeMulti public boolean detectAndDecodeMulti([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, java.util.List<java.lang.String> decoded\_info, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points, java.util.List<[Mat](http://docs.google.com/org/opencv/core/Mat.html)> straight\_qrcode) Both detects and decodes QR codesParameters:img - grayscale or color (BGR) image containing QR codes.decoded\_info - UTF8-encoded output vector of string or empty vector of string if the codes cannot be decoded.points - optional output vector of vertices of the found QR code quadrangles. Will be empty if not found.straight\_qrcode - The optional output vector of images containing rectified and binarized QR codes Returns:automatically generated

#### detectMulti public boolean detectMulti([Mat](http://docs.google.com/org/opencv/core/Mat.html) img, [Mat](http://docs.google.com/org/opencv/core/Mat.html) points) Detects QR codes in image and returns the vector of the quadrangles containing the codes.Parameters:img - grayscale or color (BGR) image containing (or not) QR codes.points - Output vector of vector of vertices of the minimum-area quadrangle containing the codes. Returns:automatically generated

#### getNativeObjAddr public long getNativeObjAddr()

#### setEpsX public void setEpsX(double epsX) sets the epsilon used during the horizontal scan of QR code stop marker detection.Parameters:epsX - Epsilon neighborhood, which allows you to determine the horizontal pattern of the scheme 1:1:3:1:1 according to QR code standard.

#### setEpsY public void setEpsY(double epsY) sets the epsilon used during the vertical scan of QR code stop marker detection.Parameters:epsY - Epsilon neighborhood, which allows you to determine the vertical pattern of the scheme 1:1:3:1:1 according to QR code standard.

* [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/objdetect/Objdetect.html)
* Next Class
* [Frames](http://docs.google.com/index.html?org/opencv/objdetect/QRCodeDetector.html)
* [No Frames](http://docs.google.com/QRCodeDetector.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* Field |
* [Constr](#3znysh7) |
* [Method](#2et92p0)
* Detail:
* Field |
* [Constr](#3dy6vkm) |
* [Method](#4d34og8)

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