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/core/KeyPoint.html)
* [Next Class](http://docs.google.com/org/opencv/core/MatOfByte.html)
* [Frames](http://docs.google.com/index.html?org/opencv/core/Mat.html)
* [No Frames](http://docs.google.com/Mat.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* [Field](#3znysh7) |
* [Constr](#2et92p0) |
* [Method](#tyjcwt)
* Detail:
* [Field](#1t3h5sf) |
* [Constr](#2s8eyo1) |
* [Method](#3whwml4)

org.opencv.core

## Class Mat

* java.lang.Object
  + org.opencv.core.Mat
* Direct Known Subclasses: [MatOfByte](http://docs.google.com/org/opencv/core/MatOfByte.html), [MatOfDMatch](http://docs.google.com/org/opencv/core/MatOfDMatch.html), [MatOfDouble](http://docs.google.com/org/opencv/core/MatOfDouble.html), [MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html), [MatOfFloat4](http://docs.google.com/org/opencv/core/MatOfFloat4.html), [MatOfFloat6](http://docs.google.com/org/opencv/core/MatOfFloat6.html), [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html), [MatOfInt4](http://docs.google.com/org/opencv/core/MatOfInt4.html), [MatOfKeyPoint](http://docs.google.com/org/opencv/core/MatOfKeyPoint.html), [MatOfPoint](http://docs.google.com/org/opencv/core/MatOfPoint.html), [MatOfPoint2f](http://docs.google.com/org/opencv/core/MatOfPoint2f.html), [MatOfPoint3](http://docs.google.com/org/opencv/core/MatOfPoint3.html), [MatOfPoint3f](http://docs.google.com/org/opencv/core/MatOfPoint3f.html), [MatOfRect](http://docs.google.com/org/opencv/core/MatOfRect.html), [MatOfRect2d](http://docs.google.com/org/opencv/core/MatOfRect2d.html), [MatOfRotatedRect](http://docs.google.com/org/opencv/core/MatOfRotatedRect.html)  
    
  public class Mat  
  extends java.lang.Object

### Field SummaryFields

| Modifier and Type | Field and Description |
| --- | --- |
| long | [**nativeObj**](http://docs.google.com/org/opencv/core/Mat.html#nativeObj) |

### Constructor SummaryConstructors

| Constructor and Description |
| --- |
| [**Mat**](http://docs.google.com/org/opencv/core/Mat.html#Mat())() |
| [**Mat**](http://docs.google.com/org/opencv/core/Mat.html#Mat(int%5B%5D,%20int))(int[] sizes, int type) |
| [**Mat**](http://docs.google.com/org/opencv/core/Mat.html#Mat(int%5B%5D,%20int,%20org.opencv.core.Scalar))(int[] sizes, int type, [Scalar](http://docs.google.com/org/opencv/core/Scalar.html) s) |
| [**Mat**](http://docs.google.com/org/opencv/core/Mat.html#Mat(int,%20int,%20int))(int rows, int cols, int type) |
| [**Mat**](http://docs.google.com/org/opencv/core/Mat.html#Mat(int,%20int,%20int,%20java.nio.ByteBuffer))(int rows, int cols, int type, java.nio.ByteBuffer data) |
| [**Mat**](http://docs.google.com/org/opencv/core/Mat.html#Mat(int,%20int,%20int,%20java.nio.ByteBuffer,%20long))(int rows, int cols, int type, java.nio.ByteBuffer data, long step) |
| [**Mat**](http://docs.google.com/org/opencv/core/Mat.html#Mat(int,%20int,%20int,%20org.opencv.core.Scalar))(int rows, int cols, int type, [Scalar](http://docs.google.com/org/opencv/core/Scalar.html) s) |
| [**Mat**](http://docs.google.com/org/opencv/core/Mat.html#Mat(long))(long addr) |
| [**Mat**](http://docs.google.com/org/opencv/core/Mat.html#Mat(org.opencv.core.Mat,%20org.opencv.core.Range))([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, [Range](http://docs.google.com/org/opencv/core/Range.html) rowRange) |
| [**Mat**](http://docs.google.com/org/opencv/core/Mat.html#Mat(org.opencv.core.Mat,%20org.opencv.core.Range%5B%5D))([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, [Range](http://docs.google.com/org/opencv/core/Range.html)[] ranges) |
| [**Mat**](http://docs.google.com/org/opencv/core/Mat.html#Mat(org.opencv.core.Mat,%20org.opencv.core.Range,%20org.opencv.core.Range))([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, [Range](http://docs.google.com/org/opencv/core/Range.html) rowRange, [Range](http://docs.google.com/org/opencv/core/Range.html) colRange) |
| [**Mat**](http://docs.google.com/org/opencv/core/Mat.html#Mat(org.opencv.core.Mat,%20org.opencv.core.Rect))([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, [Rect](http://docs.google.com/org/opencv/core/Rect.html) roi) |
| [**Mat**](http://docs.google.com/org/opencv/core/Mat.html#Mat(org.opencv.core.Size,%20int))([Size](http://docs.google.com/org/opencv/core/Size.html) size, int type) |
| [**Mat**](http://docs.google.com/org/opencv/core/Mat.html#Mat(org.opencv.core.Size,%20int,%20org.opencv.core.Scalar))([Size](http://docs.google.com/org/opencv/core/Size.html) size, int type, [Scalar](http://docs.google.com/org/opencv/core/Scalar.html) s) |

### Method SummaryMethods

| Modifier and Type | Method and Description |
| --- | --- |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**adjustROI**](http://docs.google.com/org/opencv/core/Mat.html#adjustROI(int,%20int,%20int,%20int))(int dtop, int dbottom, int dleft, int dright) |
| void | [**assignTo**](http://docs.google.com/org/opencv/core/Mat.html#assignTo(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) m) |
| void | [**assignTo**](http://docs.google.com/org/opencv/core/Mat.html#assignTo(org.opencv.core.Mat,%20int))([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, int type) |
| int | [**channels**](http://docs.google.com/org/opencv/core/Mat.html#channels())() |
| int | [**checkVector**](http://docs.google.com/org/opencv/core/Mat.html#checkVector(int))(int elemChannels) |
| int | [**checkVector**](http://docs.google.com/org/opencv/core/Mat.html#checkVector(int,%20int))(int elemChannels, int depth) |
| int | [**checkVector**](http://docs.google.com/org/opencv/core/Mat.html#checkVector(int,%20int,%20boolean))(int elemChannels, int depth, boolean requireContinuous) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**clone**](http://docs.google.com/org/opencv/core/Mat.html#clone())() |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**col**](http://docs.google.com/org/opencv/core/Mat.html#col(int))(int x) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**colRange**](http://docs.google.com/org/opencv/core/Mat.html#colRange(int,%20int))(int startcol, int endcol) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**colRange**](http://docs.google.com/org/opencv/core/Mat.html#colRange(org.opencv.core.Range))([Range](http://docs.google.com/org/opencv/core/Range.html) r) |
| int | [**cols**](http://docs.google.com/org/opencv/core/Mat.html#cols())() |
| void | [**convertTo**](http://docs.google.com/org/opencv/core/Mat.html#convertTo(org.opencv.core.Mat,%20int))([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, int rtype) |
| void | [**convertTo**](http://docs.google.com/org/opencv/core/Mat.html#convertTo(org.opencv.core.Mat,%20int,%20double))([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, int rtype, double alpha) |
| void | [**convertTo**](http://docs.google.com/org/opencv/core/Mat.html#convertTo(org.opencv.core.Mat,%20int,%20double,%20double))([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, int rtype, double alpha, double beta) |
| void | [**copySize**](http://docs.google.com/org/opencv/core/Mat.html#copySize(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) m) |
| void | [**copyTo**](http://docs.google.com/org/opencv/core/Mat.html#copyTo(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) m) |
| void | [**copyTo**](http://docs.google.com/org/opencv/core/Mat.html#copyTo(org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, [Mat](http://docs.google.com/org/opencv/core/Mat.html) mask) |
| void | [**create**](http://docs.google.com/org/opencv/core/Mat.html#create(int%5B%5D,%20int))(int[] sizes, int type) |
| void | [**create**](http://docs.google.com/org/opencv/core/Mat.html#create(int,%20int,%20int))(int rows, int cols, int type) |
| void | [**create**](http://docs.google.com/org/opencv/core/Mat.html#create(org.opencv.core.Size,%20int))([Size](http://docs.google.com/org/opencv/core/Size.html) size, int type) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**cross**](http://docs.google.com/org/opencv/core/Mat.html#cross(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) m) |
| long | [**dataAddr**](http://docs.google.com/org/opencv/core/Mat.html#dataAddr())() |
| int | [**depth**](http://docs.google.com/org/opencv/core/Mat.html#depth())() |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**diag**](http://docs.google.com/org/opencv/core/Mat.html#diag())() |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**diag**](http://docs.google.com/org/opencv/core/Mat.html#diag(int))(int d) |
| static [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**diag**](http://docs.google.com/org/opencv/core/Mat.html#diag(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) d) |
| int | [**dims**](http://docs.google.com/org/opencv/core/Mat.html#dims())() |
| double | [**dot**](http://docs.google.com/org/opencv/core/Mat.html#dot(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) m) |
| java.lang.String | [**dump**](http://docs.google.com/org/opencv/core/Mat.html#dump())() |
| long | [**elemSize**](http://docs.google.com/org/opencv/core/Mat.html#elemSize())() |
| long | [**elemSize1**](http://docs.google.com/org/opencv/core/Mat.html#elemSize1())() |
| boolean | [**empty**](http://docs.google.com/org/opencv/core/Mat.html#empty())() |
| static [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**eye**](http://docs.google.com/org/opencv/core/Mat.html#eye(int,%20int,%20int))(int rows, int cols, int type) |
| static [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**eye**](http://docs.google.com/org/opencv/core/Mat.html#eye(org.opencv.core.Size,%20int))([Size](http://docs.google.com/org/opencv/core/Size.html) size, int type) |
| double[] | [**get**](http://docs.google.com/org/opencv/core/Mat.html#get(int%5B%5D))(int[] idx) |
| int | [**get**](http://docs.google.com/org/opencv/core/Mat.html#get(int%5B%5D,%20byte%5B%5D))(int[] idx, byte[] data) |
| int | [**get**](http://docs.google.com/org/opencv/core/Mat.html#get(int%5B%5D,%20double%5B%5D))(int[] idx, double[] data) |
| int | [**get**](http://docs.google.com/org/opencv/core/Mat.html#get(int%5B%5D,%20float%5B%5D))(int[] idx, float[] data) |
| int | [**get**](http://docs.google.com/org/opencv/core/Mat.html#get(int%5B%5D,%20int%5B%5D))(int[] idx, int[] data) |
| int | [**get**](http://docs.google.com/org/opencv/core/Mat.html#get(int%5B%5D,%20short%5B%5D))(int[] idx, short[] data) |
| double[] | [**get**](http://docs.google.com/org/opencv/core/Mat.html#get(int,%20int))(int row, int col) |
| int | [**get**](http://docs.google.com/org/opencv/core/Mat.html#get(int,%20int,%20byte%5B%5D))(int row, int col, byte[] data) |
| int | [**get**](http://docs.google.com/org/opencv/core/Mat.html#get(int,%20int,%20double%5B%5D))(int row, int col, double[] data) |
| int | [**get**](http://docs.google.com/org/opencv/core/Mat.html#get(int,%20int,%20float%5B%5D))(int row, int col, float[] data) |
| int | [**get**](http://docs.google.com/org/opencv/core/Mat.html#get(int,%20int,%20int%5B%5D))(int row, int col, int[] data) |
| int | [**get**](http://docs.google.com/org/opencv/core/Mat.html#get(int,%20int,%20short%5B%5D))(int row, int col, short[] data) |
| long | [**getNativeObjAddr**](http://docs.google.com/org/opencv/core/Mat.html#getNativeObjAddr())() |
| int | [**height**](http://docs.google.com/org/opencv/core/Mat.html#height())() |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**inv**](http://docs.google.com/org/opencv/core/Mat.html#inv())() |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**inv**](http://docs.google.com/org/opencv/core/Mat.html#inv(int))(int method) |
| boolean | [**isContinuous**](http://docs.google.com/org/opencv/core/Mat.html#isContinuous())() |
| boolean | [**isSubmatrix**](http://docs.google.com/org/opencv/core/Mat.html#isSubmatrix())() |
| void | [**locateROI**](http://docs.google.com/org/opencv/core/Mat.html#locateROI(org.opencv.core.Size,%20org.opencv.core.Point))([Size](http://docs.google.com/org/opencv/core/Size.html) wholeSize, [Point](http://docs.google.com/org/opencv/core/Point.html) ofs) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**mul**](http://docs.google.com/org/opencv/core/Mat.html#mul(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) m) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**mul**](http://docs.google.com/org/opencv/core/Mat.html#mul(org.opencv.core.Mat,%20double))([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, double scale) |
| static [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**ones**](http://docs.google.com/org/opencv/core/Mat.html#ones(int%5B%5D,%20int))(int[] sizes, int type) |
| static [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**ones**](http://docs.google.com/org/opencv/core/Mat.html#ones(int,%20int,%20int))(int rows, int cols, int type) |
| static [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**ones**](http://docs.google.com/org/opencv/core/Mat.html#ones(org.opencv.core.Size,%20int))([Size](http://docs.google.com/org/opencv/core/Size.html) size, int type) |
| void | [**push\_back**](http://docs.google.com/org/opencv/core/Mat.html#push_back(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) m) |
| int | [**put**](http://docs.google.com/org/opencv/core/Mat.html#put(int%5B%5D,%20byte%5B%5D))(int[] idx, byte[] data) |
| int | [**put**](http://docs.google.com/org/opencv/core/Mat.html#put(int%5B%5D,%20byte%5B%5D,%20int,%20int))(int[] idx, byte[] data, int offset, int length) |
| int | [**put**](http://docs.google.com/org/opencv/core/Mat.html#put(int%5B%5D,%20double...))(int[] idx, double... data) |
| int | [**put**](http://docs.google.com/org/opencv/core/Mat.html#put(int%5B%5D,%20float%5B%5D))(int[] idx, float[] data) |
| int | [**put**](http://docs.google.com/org/opencv/core/Mat.html#put(int%5B%5D,%20int%5B%5D))(int[] idx, int[] data) |
| int | [**put**](http://docs.google.com/org/opencv/core/Mat.html#put(int%5B%5D,%20short%5B%5D))(int[] idx, short[] data) |
| int | [**put**](http://docs.google.com/org/opencv/core/Mat.html#put(int,%20int,%20byte%5B%5D))(int row, int col, byte[] data) |
| int | [**put**](http://docs.google.com/org/opencv/core/Mat.html#put(int,%20int,%20byte%5B%5D,%20int,%20int))(int row, int col, byte[] data, int offset, int length) |
| int | [**put**](http://docs.google.com/org/opencv/core/Mat.html#put(int,%20int,%20double...))(int row, int col, double... data) |
| int | [**put**](http://docs.google.com/org/opencv/core/Mat.html#put(int,%20int,%20float%5B%5D))(int row, int col, float[] data) |
| int | [**put**](http://docs.google.com/org/opencv/core/Mat.html#put(int,%20int,%20int%5B%5D))(int row, int col, int[] data) |
| int | [**put**](http://docs.google.com/org/opencv/core/Mat.html#put(int,%20int,%20short%5B%5D))(int row, int col, short[] data) |
| void | [**release**](http://docs.google.com/org/opencv/core/Mat.html#release())() |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**reshape**](http://docs.google.com/org/opencv/core/Mat.html#reshape(int))(int cn) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**reshape**](http://docs.google.com/org/opencv/core/Mat.html#reshape(int,%20int))(int cn, int rows) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**reshape**](http://docs.google.com/org/opencv/core/Mat.html#reshape(int,%20int%5B%5D))(int cn, int[] newshape) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**row**](http://docs.google.com/org/opencv/core/Mat.html#row(int))(int y) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**rowRange**](http://docs.google.com/org/opencv/core/Mat.html#rowRange(int,%20int))(int startrow, int endrow) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**rowRange**](http://docs.google.com/org/opencv/core/Mat.html#rowRange(org.opencv.core.Range))([Range](http://docs.google.com/org/opencv/core/Range.html) r) |
| int | [**rows**](http://docs.google.com/org/opencv/core/Mat.html#rows())() |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**setTo**](http://docs.google.com/org/opencv/core/Mat.html#setTo(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) value) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**setTo**](http://docs.google.com/org/opencv/core/Mat.html#setTo(org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) value, [Mat](http://docs.google.com/org/opencv/core/Mat.html) mask) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**setTo**](http://docs.google.com/org/opencv/core/Mat.html#setTo(org.opencv.core.Scalar))([Scalar](http://docs.google.com/org/opencv/core/Scalar.html) s) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**setTo**](http://docs.google.com/org/opencv/core/Mat.html#setTo(org.opencv.core.Scalar,%20org.opencv.core.Mat))([Scalar](http://docs.google.com/org/opencv/core/Scalar.html) value, [Mat](http://docs.google.com/org/opencv/core/Mat.html) mask) |
| [Size](http://docs.google.com/org/opencv/core/Size.html) | [**size**](http://docs.google.com/org/opencv/core/Mat.html#size())() |
| int | [**size**](http://docs.google.com/org/opencv/core/Mat.html#size(int))(int i) |
| long | [**step1**](http://docs.google.com/org/opencv/core/Mat.html#step1())() |
| long | [**step1**](http://docs.google.com/org/opencv/core/Mat.html#step1(int))(int i) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**submat**](http://docs.google.com/org/opencv/core/Mat.html#submat(int,%20int,%20int,%20int))(int rowStart, int rowEnd, int colStart, int colEnd) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**submat**](http://docs.google.com/org/opencv/core/Mat.html#submat(org.opencv.core.Range%5B%5D))([Range](http://docs.google.com/org/opencv/core/Range.html)[] ranges) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**submat**](http://docs.google.com/org/opencv/core/Mat.html#submat(org.opencv.core.Range,%20org.opencv.core.Range))([Range](http://docs.google.com/org/opencv/core/Range.html) rowRange, [Range](http://docs.google.com/org/opencv/core/Range.html) colRange) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**submat**](http://docs.google.com/org/opencv/core/Mat.html#submat(org.opencv.core.Rect))([Rect](http://docs.google.com/org/opencv/core/Rect.html) roi) |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**t**](http://docs.google.com/org/opencv/core/Mat.html#t())() |
| java.lang.String | [**toString**](http://docs.google.com/org/opencv/core/Mat.html#toString())() |
| long | [**total**](http://docs.google.com/org/opencv/core/Mat.html#total())() |
| int | [**type**](http://docs.google.com/org/opencv/core/Mat.html#type())() |
| int | [**width**](http://docs.google.com/org/opencv/core/Mat.html#width())() |
| static [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**zeros**](http://docs.google.com/org/opencv/core/Mat.html#zeros(int%5B%5D,%20int))(int[] sizes, int type) |
| static [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**zeros**](http://docs.google.com/org/opencv/core/Mat.html#zeros(int,%20int,%20int))(int rows, int cols, int type) |
| static [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**zeros**](http://docs.google.com/org/opencv/core/Mat.html#zeros(org.opencv.core.Size,%20int))([Size](http://docs.google.com/org/opencv/core/Size.html) size, int type) |

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

### Field Detail

#### nativeObj public final long nativeObj

### Constructor Detail

#### Mat public Mat()

#### Mat public Mat(int[] sizes, int type)

#### Mat public Mat(int[] sizes, int type, [Scalar](http://docs.google.com/org/opencv/core/Scalar.html) s)

#### Mat public Mat(int rows, int cols, int type)

#### Mat public Mat(int rows, int cols, int type, java.nio.ByteBuffer data)

#### Mat public Mat(int rows, int cols, int type, java.nio.ByteBuffer data, long step)

#### Mat public Mat(int rows, int cols, int type, [Scalar](http://docs.google.com/org/opencv/core/Scalar.html) s)

#### Mat public Mat(long addr)

#### Mat public Mat([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, [Range](http://docs.google.com/org/opencv/core/Range.html) rowRange)

#### Mat public Mat([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, [Range](http://docs.google.com/org/opencv/core/Range.html)[] ranges)

#### Mat public Mat([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, [Range](http://docs.google.com/org/opencv/core/Range.html) rowRange, [Range](http://docs.google.com/org/opencv/core/Range.html) colRange)

#### Mat public Mat([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, [Rect](http://docs.google.com/org/opencv/core/Rect.html) roi)

#### Mat public Mat([Size](http://docs.google.com/org/opencv/core/Size.html) size, int type)

#### Mat public Mat([Size](http://docs.google.com/org/opencv/core/Size.html) size, int type, [Scalar](http://docs.google.com/org/opencv/core/Scalar.html) s)

### Method Detail

#### adjustROI public [Mat](http://docs.google.com/org/opencv/core/Mat.html) adjustROI(int dtop, int dbottom, int dleft, int dright)

#### assignTo public void assignTo([Mat](http://docs.google.com/org/opencv/core/Mat.html) m)

#### assignTo public void assignTo([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, int type)

#### channels public int channels()

#### checkVector public int checkVector(int elemChannels)

#### checkVector public int checkVector(int elemChannels, int depth)

#### checkVector public int checkVector(int elemChannels, int depth, boolean requireContinuous)

#### clone public [Mat](http://docs.google.com/org/opencv/core/Mat.html) clone()**Overrides:** clone in class java.lang.Object

#### col public [Mat](http://docs.google.com/org/opencv/core/Mat.html) col(int x)

#### colRange public [Mat](http://docs.google.com/org/opencv/core/Mat.html) colRange(int startcol, int endcol)

#### colRange public [Mat](http://docs.google.com/org/opencv/core/Mat.html) colRange([Range](http://docs.google.com/org/opencv/core/Range.html) r)

#### cols public int cols()

#### convertTo public void convertTo([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, int rtype)

#### convertTo public void convertTo([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, int rtype, double alpha)

#### convertTo public void convertTo([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, int rtype, double alpha, double beta)

#### copySize public void copySize([Mat](http://docs.google.com/org/opencv/core/Mat.html) m)

#### copyTo public void copyTo([Mat](http://docs.google.com/org/opencv/core/Mat.html) m)

#### copyTo public void copyTo([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, [Mat](http://docs.google.com/org/opencv/core/Mat.html) mask)

#### create public void create(int[] sizes, int type)

#### create public void create(int rows, int cols, int type)

#### create public void create([Size](http://docs.google.com/org/opencv/core/Size.html) size, int type)

#### cross public [Mat](http://docs.google.com/org/opencv/core/Mat.html) cross([Mat](http://docs.google.com/org/opencv/core/Mat.html) m)

#### dataAddr public long dataAddr()

#### depth public int depth()

#### diag public [Mat](http://docs.google.com/org/opencv/core/Mat.html) diag()

#### diag public [Mat](http://docs.google.com/org/opencv/core/Mat.html) diag(int d)

#### diag public static [Mat](http://docs.google.com/org/opencv/core/Mat.html) diag([Mat](http://docs.google.com/org/opencv/core/Mat.html) d)

#### dims public int dims()

#### dot public double dot([Mat](http://docs.google.com/org/opencv/core/Mat.html) m)

#### dump public java.lang.String dump()

#### elemSize public long elemSize()

#### elemSize1 public long elemSize1()

#### empty public boolean empty()

#### eye public static [Mat](http://docs.google.com/org/opencv/core/Mat.html) eye(int rows, int cols, int type)

#### eye public static [Mat](http://docs.google.com/org/opencv/core/Mat.html) eye([Size](http://docs.google.com/org/opencv/core/Size.html) size, int type)

#### get public double[] get(int[] idx)

#### get public int get(int[] idx, byte[] data)

#### get public int get(int[] idx, double[] data)

#### get public int get(int[] idx, float[] data)

#### get public int get(int[] idx, int[] data)

#### get public int get(int[] idx, short[] data)

#### get public double[] get(int row, int col)

#### get public int get(int row, int col, byte[] data)

#### get public int get(int row, int col, double[] data)

#### get public int get(int row, int col, float[] data)

#### get public int get(int row, int col, int[] data)

#### get public int get(int row, int col, short[] data)

#### getNativeObjAddr public long getNativeObjAddr()

#### height public int height()

#### inv public [Mat](http://docs.google.com/org/opencv/core/Mat.html) inv()

#### inv public [Mat](http://docs.google.com/org/opencv/core/Mat.html) inv(int method)

#### isContinuous public boolean isContinuous()

#### isSubmatrix public boolean isSubmatrix()

#### locateROI public void locateROI([Size](http://docs.google.com/org/opencv/core/Size.html) wholeSize, [Point](http://docs.google.com/org/opencv/core/Point.html) ofs)

#### mul public [Mat](http://docs.google.com/org/opencv/core/Mat.html) mul([Mat](http://docs.google.com/org/opencv/core/Mat.html) m)

#### mul public [Mat](http://docs.google.com/org/opencv/core/Mat.html) mul([Mat](http://docs.google.com/org/opencv/core/Mat.html) m, double scale)

#### ones public static [Mat](http://docs.google.com/org/opencv/core/Mat.html) ones(int[] sizes, int type)

#### ones public static [Mat](http://docs.google.com/org/opencv/core/Mat.html) ones(int rows, int cols, int type)

#### ones public static [Mat](http://docs.google.com/org/opencv/core/Mat.html) ones([Size](http://docs.google.com/org/opencv/core/Size.html) size, int type)

#### push\_back public void push\_back([Mat](http://docs.google.com/org/opencv/core/Mat.html) m)

#### put public int put(int[] idx, byte[] data)

#### put public int put(int[] idx, byte[] data, int offset, int length)

#### put public int put(int[] idx, double... data)

#### put public int put(int[] idx, float[] data)

#### put public int put(int[] idx, int[] data)

#### put public int put(int[] idx, short[] data)

#### put public int put(int row, int col, byte[] data)

#### put public int put(int row, int col, byte[] data, int offset, int length)

#### put public int put(int row, int col, double... data)

#### put public int put(int row, int col, float[] data)

#### put public int put(int row, int col, int[] data)

#### put public int put(int row, int col, short[] data)

#### release public void release()

#### reshape public [Mat](http://docs.google.com/org/opencv/core/Mat.html) reshape(int cn)

#### reshape public [Mat](http://docs.google.com/org/opencv/core/Mat.html) reshape(int cn, int rows)

#### reshape public [Mat](http://docs.google.com/org/opencv/core/Mat.html) reshape(int cn, int[] newshape)

#### row public [Mat](http://docs.google.com/org/opencv/core/Mat.html) row(int y)

#### rowRange public [Mat](http://docs.google.com/org/opencv/core/Mat.html) rowRange(int startrow, int endrow)

#### rowRange public [Mat](http://docs.google.com/org/opencv/core/Mat.html) rowRange([Range](http://docs.google.com/org/opencv/core/Range.html) r)

#### rows public int rows()

#### setTo public [Mat](http://docs.google.com/org/opencv/core/Mat.html) setTo([Mat](http://docs.google.com/org/opencv/core/Mat.html) value)

#### setTo public [Mat](http://docs.google.com/org/opencv/core/Mat.html) setTo([Mat](http://docs.google.com/org/opencv/core/Mat.html) value, [Mat](http://docs.google.com/org/opencv/core/Mat.html) mask)

#### setTo public [Mat](http://docs.google.com/org/opencv/core/Mat.html) setTo([Scalar](http://docs.google.com/org/opencv/core/Scalar.html) s)

#### setTo public [Mat](http://docs.google.com/org/opencv/core/Mat.html) setTo([Scalar](http://docs.google.com/org/opencv/core/Scalar.html) value, [Mat](http://docs.google.com/org/opencv/core/Mat.html) mask)

#### size public [Size](http://docs.google.com/org/opencv/core/Size.html) size()

#### size public int size(int i)

#### step1 public long step1()

#### step1 public long step1(int i)

#### submat public [Mat](http://docs.google.com/org/opencv/core/Mat.html) submat(int rowStart, int rowEnd, int colStart, int colEnd)

#### submat public [Mat](http://docs.google.com/org/opencv/core/Mat.html) submat([Range](http://docs.google.com/org/opencv/core/Range.html)[] ranges)

#### submat public [Mat](http://docs.google.com/org/opencv/core/Mat.html) submat([Range](http://docs.google.com/org/opencv/core/Range.html) rowRange, [Range](http://docs.google.com/org/opencv/core/Range.html) colRange)

#### submat public [Mat](http://docs.google.com/org/opencv/core/Mat.html) submat([Rect](http://docs.google.com/org/opencv/core/Rect.html) roi)

#### t public [Mat](http://docs.google.com/org/opencv/core/Mat.html) t()

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

#### total public long total()

#### type public int type()

#### width public int width()

#### zeros public static [Mat](http://docs.google.com/org/opencv/core/Mat.html) zeros(int[] sizes, int type)

#### zeros public static [Mat](http://docs.google.com/org/opencv/core/Mat.html) zeros(int rows, int cols, int type)

#### zeros public static [Mat](http://docs.google.com/org/opencv/core/Mat.html) zeros([Size](http://docs.google.com/org/opencv/core/Size.html) size, int type)

* [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/core/KeyPoint.html)
* [Next Class](http://docs.google.com/org/opencv/core/MatOfByte.html)
* [Frames](http://docs.google.com/index.html?org/opencv/core/Mat.html)
* [No Frames](http://docs.google.com/Mat.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* [Field](#3znysh7) |
* [Constr](#2et92p0) |
* [Method](#tyjcwt)
* Detail:
* [Field](#1t3h5sf) |
* [Constr](#2s8eyo1) |
* [Method](#3whwml4)

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