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)
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org.opencv.video

## Class BackgroundSubtractor

* java.lang.Object
  + [org.opencv.core.Algorithm](http://docs.google.com/org/opencv/core/Algorithm.html)
    - org.opencv.video.BackgroundSubtractor
* Direct Known Subclasses: [BackgroundSubtractorKNN](http://docs.google.com/org/opencv/video/BackgroundSubtractorKNN.html), [BackgroundSubtractorMOG2](http://docs.google.com/org/opencv/video/BackgroundSubtractorMOG2.html)  
    
  public class BackgroundSubtractor  
  extends [Algorithm](http://docs.google.com/org/opencv/core/Algorithm.html)  
  Base class for background/foreground segmentation. : The class is only used to define the common interface for the whole family of background/foreground segmentation algorithms.

### Method SummaryMethods

| Modifier and Type | Method and Description |
| --- | --- |
| static [BackgroundSubtractor](http://docs.google.com/org/opencv/video/BackgroundSubtractor.html) | [**\_\_fromPtr\_\_**](http://docs.google.com/org/opencv/video/BackgroundSubtractor.html#__fromPtr__(long))(long addr) |
| void | [**apply**](http://docs.google.com/org/opencv/video/BackgroundSubtractor.html#apply(org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) image, [Mat](http://docs.google.com/org/opencv/core/Mat.html) fgmask) Computes a foreground mask. |
| void | [**apply**](http://docs.google.com/org/opencv/video/BackgroundSubtractor.html#apply(org.opencv.core.Mat,%20org.opencv.core.Mat,%20double))([Mat](http://docs.google.com/org/opencv/core/Mat.html) image, [Mat](http://docs.google.com/org/opencv/core/Mat.html) fgmask, double learningRate) Computes a foreground mask. |
| void | [**getBackgroundImage**](http://docs.google.com/org/opencv/video/BackgroundSubtractor.html#getBackgroundImage(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) backgroundImage) Computes a background image. |

### 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()), [empty](http://docs.google.com/org/opencv/core/Algorithm.html#empty()), [getDefaultName](http://docs.google.com/org/opencv/core/Algorithm.html#getDefaultName()), [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

### Method Detail

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

#### apply public void apply([Mat](http://docs.google.com/org/opencv/core/Mat.html) image, [Mat](http://docs.google.com/org/opencv/core/Mat.html) fgmask) Computes a foreground mask.Parameters:image - Next video frame.fgmask - The output foreground mask as an 8-bit binary image. learnt. Negative parameter value makes the algorithm to use some automatically chosen learning rate. 0 means that the background model is not updated at all, 1 means that the background model is completely reinitialized from the last frame.

#### apply public void apply([Mat](http://docs.google.com/org/opencv/core/Mat.html) image, [Mat](http://docs.google.com/org/opencv/core/Mat.html) fgmask, double learningRate) Computes a foreground mask.Parameters:image - Next video frame.fgmask - The output foreground mask as an 8-bit binary image.learningRate - The value between 0 and 1 that indicates how fast the background model is learnt. Negative parameter value makes the algorithm to use some automatically chosen learning rate. 0 means that the background model is not updated at all, 1 means that the background model is completely reinitialized from the last frame.

#### getBackgroundImage public void getBackgroundImage([Mat](http://docs.google.com/org/opencv/core/Mat.html) backgroundImage) Computes a background image.Parameters:backgroundImage - The output background image. **Note:** Sometimes the background image can be very blurry, as it contain the average background statistics.

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