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# Class java.awt.image.FilteredImageSource

```
java.lang.Object
   |
   +----java.awt.image.FilteredImageSource
```

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public class **FilteredImageSource**
extends Object
implements ImageProducer

This class is an implementation of the ImageProducer interface which takes an existing image and a filter object and uses them to produce image data for a new filtered version of the original image. Here is an example which filters an image by swapping the red and blue compents:

```
Image src = getImage("doc:///demo/images/duke/T1.gif");
ImageFilter colorfilter = new RedBlueSwapFilter();
Image img = createImage(new FilteredImageSource(src.getSource(),
                                                colorfilter));
```

**See Also:**
ImageProducer
**Version:**
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**Author:**
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Determine if an ImageConsumer is on the list of consumers currently interested in data for this image.

- **removeConsumer**(ImageConsumer)
  Remove an ImageConsumer from the list of consumers interested in data for this image.
- **requestTopDownLeftRightResend**(ImageConsumer)
  Request that a given ImageConsumer have the image data delivered one more time in top–down, left–right order.
- **startProduction**(ImageConsumer)
  Add an ImageConsumer to the list of consumers interested in data for this image, and immediately start delivery of the image data through the ImageConsumer interface.

# Constructors

- **FilteredImageSource**

```
public FilteredImageSource(ImageProducer orig,
                           ImageFilter imgf)
```

Construct an ImageProducer object from an existing ImageProducer and a filter object.

**See Also:**

ImageFilter, createImage

# Methods

- **addConsumer**

```
public synchronized void addConsumer(ImageConsumer ic)
```

Add an ImageConsumer to the list of consumers interested in data for this image.

**See Also:**

ImageConsumer

- **isConsumer**

```
public synchronized boolean isConsumer(ImageConsumer ic)
```

Determine if an ImageConsumer is on the list of consumers currently interested in data for this image.

**Returns:**

true if the ImageConsumer is on the list; false otherwise

**See Also:**

ImageConsumer

- **removeConsumer**

```
public synchronized void removeConsumer(ImageConsumer ic)
```

Remove an ImageConsumer from the list of consumers interested in data for this image.

**See Also:**

ImageConsumer

- **startProduction**

```
public void startProduction(ImageConsumer ic)
```

Add an ImageConsumer to the list of consumers interested in data for this image, and immediately start delivery of the image data through the ImageConsumer interface.

**See Also:**

ImageConsumer

- **requestTopDownLeftRightResend**

```
public void requestTopDownLeftRightResend(ImageConsumer ic)
```

Request that a given ImageConsumer have the image data delivered one more time in top–down, left–right order.

**See Also:**

ImageConsumer

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