# **Scaling images**

## On this page

- \$image.scale(image, scaleWidth, scaleHeight)
- \$image.scale(image, scaleFactor)

#### Scaling Quality

There are two scaling methods that you can use to scale an image using a given factor. For example, Method 1 provides height and width parameters (scaleWidth and scaleHeight), while Method 2 provides a single parameter that will scale both axes equally (scaleFactor). These three parameters must be positive real numbers.

## \$image.scale(image, scaleWidth, scaleHeight)

Return an image icon for an element.

	Name	Туре	Description
Parameter(s)	image	com.nomagic.magicreport.Image	An image object for the element icon.
	scaleWidth	java.lang.Double	The width parameter of the image.
	scaleHeight	java.lang.Double	The height parameter of the image.
Return	-	com.nomagic.magicreport.Image	The resized image object for the element icon.

#### \$image.scale(image, scaleFactor)

Return an image icon for an element.

	Name	Туре	Description
Parameter(s)	image	com.nomagic.magicreport.Image	An image object for the element icon.
	scaleFactor	java.lang.Double	The scaling parameter of the image.
Return	-	com.nomagic.magicreport.Image	The resized image object for the element icon.

Use \$image.scale(\$diagram.image, 0.5), for example, to scale down the image to half the original size. The following photos show the result.



Results of using the image scale function.

Use \$image.scale(\$diagram.image, 0.8, 0.6) to scale the image's width down to 80% and height to 60%. The following photos show the result.



Results of using the image scale function.

the images used in generated reports can also be scaled by specifying the Exported Image Size property in one of the following locations:

- The Properties dialog, which is used to define image export properties for the Save as Image functionality.
- The Environment Option dialog. To open the dialog, in the main menu, select Options Environment. Image export properties are located

# Scalingu Qualityeneral group.

Because the image tool provides several methods for scaling images, the quality of the scaled image depends on the algorithm that is used. To set the image standing transport the Auto image size drop down list located

singe Supple Antions are of the Report Wizard.

The code above will set the image scaling quality to 'highest'. The possible values are from 1 to 5, where 5 is 'highest' and 1 is 'lowest'. The following table provides the description of each value.

Value	Description
1	lowest' – Use one-step nearest neighbor interpolation.
2	'low' – Use one-step bi-cubic interpolation.
3	'medium – Use multi-step, bi-linear interpolation.
4	'high' – Use area average image scaling algorithm.
5	'highest' – Use a lossless transformation when the template is ODF, DOCX, or RTF; otherwise, area average image scaling algorithm will be used instead.

Sample pictures from different image scaling qualities with their sizes scaled down to 50% are indicated in the pictures below (ranging from the value 1 'lowest' to 5 'highest'):

## \$image.setScalingQuality(1)

Tips on Drawing and Creating Model Elements



# \$image.setScalingQuality(2)

Drawing Shapes
Different size shapes drawing
From the diagram horibing, select the bullou to draw an element. Clock on the diagram pane and dea mouse with the pressed mouse butter. When element bounds will be of the desired size, release the mouse tables.
Nerrorg elements
 You may quickly edit the name of any selected model element simply by pressing any letter key.
Existing element creation in diagram
1. You may drag element from Drowser to diagram, or
<ol><li>Draw an element and press F2 or Space. The list of already existing elements appears. Belect the name and element with the same data will be registed.</li></ol>

# \$image.setScalingQuality(3)

Tips on Drawing and Creating Model Elements



Different results of using the image set scaling quality function.

# \$image.setScalingQuality(4)

**Tips on Drawing and Creating Model Elements** 

Drawing Shapes
Offerent size shapes drawing From the diagram footbac, select the button to thew an element. Click on the diagram pane and drag means with the pressed means button. When element bounds will be of the desired size, release the mouse to the
Naming elements You may quickly edit the name of any selected model element simply by pressing any letter key.
Existing element creation in diagram 1. You may trug element from Drowser to diagram, or 2. Draw an element and press F2 or Space. The list of already existing elements appears. Belect the name and element with the seam data with be regard

# \$image.setScalingQuality(5)

## **Tips on Drawing and Creating Model Elements**



Drawing Shapes

Different size shapes drawing From the diagram tools is; select the button to draw an element. Citck on the diagram pane and drag mouse with the pressed mouse button. When element bounds will be of the desired size, release the mouse button.

Maning elements You may quickly edit the name of any selected model element simply by pressing any letter key.

Execting element creation in diagram 1. You may drag element from Browser to diagram, or 2. Oraw an element and press R2 or Space. The list of already existing elements appears. Belect the name and element with the same data will be created.

Different results of using the image set scaling quality function.