Region and Image Properties

Get information about the objects in an image

**Functions**

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| [regionprops](http://www.mathworks.in/help/images/ref/regionprops.html) | Measure properties of image regions |
| [bwarea](http://www.mathworks.in/help/images/ref/bwarea.html) | Area of objects in binary image |
| [bwconncomp](http://www.mathworks.in/help/images/ref/bwconncomp.html) | Find connected components in binary image |
| [bwconvhull](http://www.mathworks.in/help/images/ref/bwconvhull.html) | Generate convex hull image from binary image |
| [bwdist](http://www.mathworks.in/help/images/ref/bwdist.html) | Distance transform of binary image |
| [bwdistgeodesic](http://www.mathworks.in/help/images/ref/bwdistgeodesic.html) | Geodesic distance transform of binary image |
| [bweuler](http://www.mathworks.in/help/images/ref/bweuler.html) | Euler number of binary image |
| [bwperim](http://www.mathworks.in/help/images/ref/bwperim.html) | Find perimeter of objects in binary image |
| [bwselect](http://www.mathworks.in/help/images/ref/bwselect.html) | Select objects in binary image |

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| [graydist](http://www.mathworks.in/help/images/ref/graydist.html) | Gray-weighted distance transform of grayscale image |
| [imcontour](http://www.mathworks.in/help/images/ref/imcontour.html) | Create contour plot of image data |
| [imhist](http://www.mathworks.in/help/images/ref/imhist.html) | Histogram of image data |
| [impixel](http://www.mathworks.in/help/images/ref/impixel.html) | Pixel color values |
| [improfile](http://www.mathworks.in/help/images/ref/improfile.html) | Pixel-value cross-sections along line segments |
| [corr2](http://www.mathworks.in/help/images/ref/corr2.html) | 2-D correlation coefficient |
| [mean2](http://www.mathworks.in/help/images/ref/mean2.html) | Average or mean of matrix elements |
| [std2](http://www.mathworks.in/help/images/ref/std2.html) | Standard deviation of matrix elements |
| [bwlabel](http://www.mathworks.in/help/images/ref/bwlabel.html) | Label connected components in 2-D binary image |
| [bwlabeln](http://www.mathworks.in/help/images/ref/bwlabeln.html) | Label connected components in binary image |
| [labelmatrix](http://www.mathworks.in/help/images/ref/labelmatrix.html) | Create label matrix from bwconncomp structure |

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| [bwpack](http://www.mathworks.in/help/images/ref/bwpack.html) | Pack binary image |
| [bwunpack](http://www.mathworks.in/help/images/ref/bwunpack.html) | Unpack binary image |

**Examples and How To**

* [Getting Information about the Pixels in an Image](http://www.mathworks.in/help/images/getting-information-about-the-pixels-in-an-image.html)
* [Measuring the Distance Between Two Pixels](http://www.mathworks.in/help/images/measuring-the-distance-between-two-pixels.html)
* [Labeling and Measuring Objects in a Binary Image](http://www.mathworks.in/help/images/labeling-and-measuring-objects-in-a-binary-image.html)
* [Getting Image Pixel Values Using impixel](http://www.mathworks.in/help/images/getting-information-about-image-pixel-values-and-image-statistics.html#f11-14682)
* [Creating an Intensity Profile of an Image Using improfile](http://www.mathworks.in/help/images/getting-information-about-image-pixel-values-and-image-statistics.html#f11-12460)
* [Displaying a Contour Plot of Image Data](http://www.mathworks.in/help/images/getting-information-about-image-pixel-values-and-image-statistics.html#f11-13085)
* [Creating an Image Histogram Using imhist](http://www.mathworks.in/help/images/getting-information-about-image-pixel-values-and-image-statistics.html#f11-12878)
* [Getting Summary Statistics About an Image](http://www.mathworks.in/help/images/getting-information-about-image-pixel-values-and-image-statistics.html#f11-12502)
* [Computing Properties for Image Regions](http://www.mathworks.in/help/images/getting-information-about-image-pixel-values-and-image-statistics.html#f11-12504)

**Concepts**

* [Getting Information about Image Pixel Values and Image Statistics](http://www.mathworks.in/help/images/getting-information-about-image-pixel-values-and-image-statistics.html)
* [Distance Transform](http://www.mathworks.in/help/images/distance-transform.html)