Principal Component Analysis In Arcgis

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Principal Component Analysis In Arcgis
The Principal Componentstool is used to transform the data in the input bands from the input multivariate attribute space to a new multivariate attribute space whose axes are rotated with respect to the original space. The axes (attributes) in the new space are uncorrelated.

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The value specified for the number of principal components determines the number of principal component bands in the output multiband raster. The number must not be larger than the total number of raster bands in the input. The raster bands must have a common intersection. If there are none, an error occurs and no output is created.

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Performs Principal Component Analysis (PCA) on a set of raster bands and generates a single multiband raster as output. Learn more about how Principal Components works. Usage. The value specified for the number of principal components determines the number of principal component bands in the output multiband raster.

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ArcGIS Help 10.1 - Principal Components (Spatial Analyst)
The value specified for the number of principal components determines the number of principal component bands in the output multiband raster. The number must not be larger than the total number of raster bands in the input. When a multiband raster is specified as one of the Input raster bands (in_raster_bands in Python), all the bands will be used.

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The Principal Components tool is used to transform the data in the input bands from the input multivariate attribute space to a new multivariate attribute space whose axes are rotated with respect to the original space. The axes (attributes) in the new space are uncorrelated.

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Principal Component Analysis In Arcgis
Principal component analysis transforms a multiband image to remove correlation among the bands. The information in the output image is mainly concentrated in the first few bands. By enhancing the first few bands, more details can be seen in the image when it is displayed in ArcMap. This could be helpful for collecting training samples.

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Principal Component Analysis
Normally the output of a principal components analysis will include the components, their eigenvalues, and ancillary information useful for interpreting the result, none of which would be raster bands.

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Inverse principal component analysis some python tool here and seems more towards what you want and they do reference Jensen's textbook on remote sensing. In any event, you will need the results matrices in order to invert.