South Africa  
   
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South Africa, officially the Republic of South Africa (RSA), is the southernmost country in Africa. Its nine  
provinces are bounded to the south by 2,798 kilometres (1,739 miles) of coastline that stretches along  
the South Atlantic and Indian Ocean; to the north by the neighbouring countries of Namibia, Botswana,  
and Zimbabwe; to the east and northeast by Mozambique and Eswatini; and it encloses Lesotho.  
Covering an area of 1,221,037 square kilometres (471,445 square m

## Wikipedia Excerpt: Image processing

Digital image processing is the use of a digital computer to process digital images through an algorithm. As a subcategory or field of digital signal processing, digital image processing has many advantages over analog image processing. It allows a much wider range of algorithms to be applied to the input data and can avoid problems such as the build-up of noise and distortion during processing. Since images are defined over two dimensions (perhaps more), digital image processing may be modeled in the form of multidimensional systems. The generation and development of digital image processing are mainly affected by three factors: first, the development of computers; second, the development of mathematics (especially the creation and improvement of discrete mathematics theory); and third, the demand for a wide range of applications in environment, agriculture, military, industry and medical science has increased.