South America  
   
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South America is a continent entirely in the Western Hemisphere and mostly in the Southern  
Hemisphere, with a considerably smaller portion in the Northern Hemisphere. It can also be described  
as the southern subregion of the Americas. South America is bordered on the west by the Pacific  
Ocean, on the north and east by the Atlantic Ocean, and to the south by the Drake Passage; North  
America, the Caribbean Sea lying to the northwest, and the Antarctic Circle, Antarcti

## 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.