Sun  
   
Sun  
The Sun is the star at the centre of the Solar System. It is a massive, nearly perfect sphere of hot  
plasma, heated to incandescence by nuclear fusion reactions in its core, radiating the energy from its  
surface mainly as visible light and infrared radiation with 10% at ultraviolet energies. It is by far the most  
important source of energy for life on Earth. The Sun has been an object of veneration in many cultures  
and a central subject for astronomical research since antiquity. The Su

## 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.