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## **Astronomical Data**

The GNU Astronomy Utilities (Gnuastro) is an official GNU package consisting of various programs and library functions for the manipulation and analysis of astronomical data. All the programs share the same basic command-line user interface for the comfort of both the users and developers. Gnuastro is written to comply fully with the

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GNU coding standards  
so it integrates finely  
with the GNU/Linux  
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**GNU Astronomy**

**Utilities:**

**Astronomical data  
manipulation ...**

This book documents  
version 0.13 of the  
GNU Astronomy  
Utilities (Gnuastro).  
Gnuastro provides  
various programs and  
libraries for

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**Manipulation And ...**

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Astronomy  
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Utilities (Gnuastro) is an official GNU package consisting of separate programs and libraries for the manipulation and analysis of astronomical data. All the programs share the same basic command-line user interface for the comfort of both the users and developers.

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### Astronomy **Utilities**

Astronomical datasets (images or tables) contain very valuable information, the tools in this section can help in analyzing, extracting, and quantifying that information. For example getting general or specific statistics of the dataset (with `Statistics`), detecting signal within a noisy dataset (with `NoiseChisel`), or

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## Astronomy

creating a catalog from an input dataset (with MakeCatalog ).

## **Data analysis (GNU Astronomy Utilities)**

Each HDU can store an independent dataset and its corresponding meta-data. Therefore, Gnuastro has one program (see Fits) specifically designed to manipulate FITS HDUs and the meta-data (header keywords) in each HDU. Your

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astronomical research does not just involve data analysis (where the FITS format is very useful).

### Analysis

#### **Data containers (GNU Astronomy Utilities)**

GNU Astronomy Utilities 0.13, contains the following programs. They are sorted in alphabetical order and a short description is provided for each program. The

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description starts with the executable names in this font followed by a pointer to the respective section in parenthesis.

Throughout this book, they are ordered based on their context ...

### **Gnuastro programs list (GNU Astronomy Utilities)**

astronomy utilities  
astronomical data the  
gnu astronomy utilities  
gnuastro is an official

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### Astronomy

gnu package consisting of various programs and library functions for the manipulation and

analysis of astronomical data all the programs share the same basic command line user interface for the comfort of both the users and developers  
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## **Gnu Astronomy Utilities**

## **Astronomical Data**



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Abstract. Gnuastro

(GNU Astronomy

Utilities) manipulates

and analyzes

astronomical data. It is

an official GNU

package of a large

collection of programs

and C/C++ library

functions. Command-

line programs perform

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arithmetic operations on images, convert FITS images to common types like JPG or PDF, convolve an image with a given kernel or matching of kernels, perform cosmological calculations, crop parts of large images (possibly in multiple files), manipulate FITS extensions and keywords, and ...

**Gnuastro: GNU**

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## **Astronomy Utilities - NASA/ADS**

gnu gnuastro v01 was released today as the first public release of this package which stands for the gnu astronomy utilities gnuastro contains utilities for astronomical data manipulation and analysis via the command line gnuastro currently ships utilities for arithmetic converting data files

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convolve data cosmic

calculator printing

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The GNU Astronomy

Utilities (Gnuastro) is

an official GNU

package consisting of

separate programs and

libraries (in C and

C++) for the

manipulation and

analysis of

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astronomical data. All the various utilities share the same basic command line user interface for the comfort of both the users and developers. Gnuastro is written to comply fully with the GNU coding standards so it integrates finely with the GNU/Linux operating system.

### **GNU Astronomy Utilities - Summary [Savannah]**

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The GNU Astronomy Utilities (Gnuastro) is an official GNU package consisting of separate programs for the manipulation and analysis of astronomical data.

### **GNU Astronomy Utilities: Astronomical data manipulation ...**

4.6 Numeric data types. At the lowest level, the computer stores everything in

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terms of 1 or 0. For example, each program in Gnuastro, or each astronomical image you take with the telescope is actually a string of millions of these zeros and ones. The space required to keep a zero or one is the smallest unit of storage, and is known as a bit ...



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