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## MISCELLANEOUS

`coord_system` or `cs`  
> `cs [ecl|equ|gal|sgal|im|iraf|sc]`  
Changes to specified coordinate system for future operations. Valid coordinate types are:

`ecl` Ecliptic(lon/lat)  
`equ` Equatorial(ra/dec)  
`gal` Galactic(lon/lat)  
`sgal` Super Galactic(lon/lat)  
`im` Image(sample/line)  
`iraf` IRAF(column/row)  
`sc` Screen(x/y)

`histogram` or `hi`  
> `hi`  
Display histogram of screen pixel values.

`histogram_original` or `ho`  
> `ho`  
Display histogram of original data values from the image file.

`alias` or `al`  
> `al [name]["string"]`  
Define an alias name to a string of characters.  
*name* - Alias name.  
*string* - String alias. If no *string* is given, deletes alias for *name*.

`take_file` or `ta`  
> `ta filename`  
Execute a set of commands from a file.  
*filename* - Name of file containing commands.

`annotate` or `an`  
> `an [x y] "string" [color] [font |agra[size]]`  
Place annotation on the screen.  
*x y* - Position (default: interactive).  
*string* - Characters to put on screen.  
*color* - Red, green, blue or white.  
*font* - Any available X-Window font.  
*agra* - Required font for non-graphics mode.  
*size* - Font size for *agra* font (default 10.0).

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## Command List

Command	Abbreviation
alias	al
annotate	an
background	ba
border	border
change area	ca
change directory	cd
current image	ci
clip	cl
contour	co
crop	crop
coord system	cs
color table	ct
cutoff	cu
define area	da
delete file	df
directory	dir, ls
echo	echo
end	end
erase	er
examine	ex
exit	exit
field of view	fov
file	fi
flatten	fl
find plate	fp
frame	fr
graphics examine	gex
graphics pick	gpi
grid	grid
help	help
header	he
histogram	hi
histogram original	ho
map	ma
magnifier	mag
mark	mark
memdump	md
mode	mo
movie prep	mp
movie	movie
off	of
on	on

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## Command List

Command	Abbreviation
paint	pa
pause	pause
print history	ph
pick	pi
plane	pl
point	point
print working directory	pwd
quit	quit
range	ra
replicate	rep
rewind	rew
scatter plot	sc
screen dump	sd
session history	sh
set	set
skybox	sb
slice	sl
sleep	sleep
stretch	st
sync	sync
take	ta
table	table
tape read	tr
tape write	tw
unix	unix
vector	ve
wedge	we
write	write
zap	zap
zoom pan	zp
#	#
!	!
?	?

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### A Note About Command Syntax

In this document, optional parameters are enclosed in brackets: [ ]. The parameters that are given in **bold face** are literals. The parameters that are given in *italics* are to have a value assigned by the user. Vertical bars (|) separate choices in parameter lists.

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Infrared Processing  
and  
Analysis Center

## IMAGING TEAM

## Hints for skyview Users

JPL D-10245

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### TO START AND STOP SKYVIEW

**skyview** runs under the X-Windows user interface. Move the mouse cursor into a text window, and type:

% **skyview**

To stop **skyview** and return to **UNIX**, type:

> **exit**

The **skyview** prompt is:>.

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### ONLINE HELP

? or **help**  
> ? [*function*]

? without a *function* reports the entire list of *functions* available for use in **skyview**. When used with a *function*, the command line syntax is given for *function*.

> **help** [*function*]

When used without a *function*, an explanation of how to use **help** is given, as well as the list of *functions* for which help is available. When used with a *function*, the entry from the **Skyview User's Guide** is given for *function*.

## IMAGE DISPLAY

**paint** or **pa**  
> **pa** [*file*] [**noz**|**zp**][**nost**|**st**] [=geom]  
Display current image or *file* if given.  
**noz** - don't reset zoom/pan.  
**nost** - don't reset color table stretch.  
*geom* - X geometry spec (=w $\times$ h+x+y).

**range** or **ra**  
> **ra** [*minval*[%]]**min** *maxval*[%]]**max**  
Specify data to screen pixel mapping.  
**min** - minimum image data value.  
**max** - maximum image data value.  
*minval* and *maxval* given as real values, or as histogram percentiles, with '%'.  
**mode** or **mo**  
> **mo** [**log**|**lin**]  
Select range mapping transfer function.  
**lin** - linear mapping.  
**log** - logarithmic mapping.

**zoom\_pan** or **zp**  
> **zp** [*n*][*x y*]  
Change zoom/pan of current image/frame.  
*n* - magnification factor  
 $n = 2^{-p}$  or  $p$ ,  $p = 1, 2, 3, \dots$   
*x y* - image coordinate for zoom center.

**magnifier** or **mag**  
> **mag** [**on**|**off**] [*n*]  
Magnifier window for close-up view under mouse cursor.  
**on** - Turn on magnifier.  
**off** - Turn off magnifier.  
*n* - Set zoom factor (default: 8).

**stretch** or **st**  
> **st** [*low high*]  
Select screen-to-display pixel mapping. (Color table stretch/compress)  
*low* and *high* - screen values (integers).

## DISPLAY CONTROL

**frame** or **fr**  
> **fr** [*n*]  
> **fr** [**adv**|**noadv**]  
Select window *n* for future operations.  
**adv** - Create a new window when painting.  
**noadv** - Turn off frame advance (default).

**color\_table** or **ct**  
> **ct** [*n*|*file*]  
Loads color lookup table *n* into displayed image. Standard built-in color table numbers are:

0 - grey scale: black and white (default)  
1 - reverse grey scale:white and black  
2 - a trip around a color cube  
3 - standard for false colors  
4 - alternative for false colors  
5 - reverse color table 4  
6 - same as 4, but with blue compressed  
7 - red,white and blue, for difference images

*file* - File name containing custom color table.

**wedge** or **we**  
> **we** [**on**|**now**|**off**]  
Display stretch function in separate window.  
**on**, **now** - Turn on wedge.  
**off** - Turn off wedge.

**erase** or **er**  
> **er** [**r**|**g**|**b**|**a**|**ro**|**go**|**bo**|**wo**|**ao**]  
Erase image or overlay plane(s) specified. If none specified, all are erased. If mouse cursor is in an image window, only that window is erased.

**on** or **off**  
> **off** [**r**|**g**|**b**|**a**|**ro**|**go**|**bo**|**ao**|**wo**]  
Turn on or off image or overlay plane(s). If not specified, all image and overlay planes are turned on/off.

## IMAGE ANALYSIS

**pick** or **pi**  
> **pi** [*n*][*x y*]  
Report flux and position information.  
*n* - Average over  $n \times n$  box.  
*x y* - Report on given *x y*.

**slice** or **sl**  
> **sl** [*file*][*x1 y1 x2 y2*]  
Plot a profile through displayed image.  
*file* - Output file name (default: slice).  
*x1 y1 x2 y2* - Positions for ends of cut.

**background** or **ba**  
> **ba** [= *level*] [*n*]] [*x y*]  
Select background level to subtract when integrating flux.  
= *level* - Call out specific level.  
*n* - Average over  $n \times n$  box.  
*x y* - Use value of pixel *x y*.

**define\_area** or **da**  
> **da** [*n*][**ci**|**el**][**bo**|**po**|**li**][**nomark**]  
Define area by surrounding a region of interest with graphic boundary.  
*n* - Index number for area.  
Areas - circle, ellipse, box, polygon, or vector list  
**nomark** - Don't leave the graphic border after defining the area.

**examine** or **ex**  
> **ex** [*n*]  
Returns the min, max, mean, RMS, Integral, Flux Weighted Centroid, and Centroid of current area, unless area number specified.  
*n* - Index number for area.

**change\_area** or **ca**  
> **ca** [*n*]  
Change current area to area number *n*.

**table**  
> **table** *name command*  
Perform a function repeatedly using values from a table.  
*name* - File name of table to be used.  
*command* - command to be executed.

## MORE IMAGE ANALYSIS

**mark**  
> **mark** *x y* [*shape*][*color*][*size*]  
Mark a position on a displayed image with a particular shape, color and size marker.  
*x y* - Position to mark.  
*shape* - Dot, cross (default), asterisk, circle, x, box, diamond, triangle.  
*size* - Any number of pixels (default: 7).

**graphics\_pick** or **gpi**  
> **gpi** [*x y*]  
Report full information on closest 'mark' to given position.  
*x y* - position

**graphics\_examine** or **gex**  
> **gex** [*n*]  
Report full information on all marks within a defined area.  
*n* - Area number (default: current area).

**contour** or **co**  
**contourovl** or **contourps**  
> **co** [*file*][*start*[%]] [*increment*] [**keys**]  
Contour plots of images can be made using three different commands, depending on output preferred.  
**contour** - Hardcopy contour plot  
**contourovl** - Overlay contour plot on displayed image.  
**contourps** - Put contour plot in a Postscript file.

*file* - Image file to use if not current file.  
*start* - Value or percentile on histogram (%) to start contours.  
*increment* - Value to multiply contour level values by for successive contours.

**keys**  
**linear** - Add *increment* value, creating linear contours.  
**grid** - Do coordinate overlay grid.  
**gridonly** - No contour plot, just the grid.