

## AxisInfo

### **AxisInfo (graphNameStr, axisNameStr)**

The AxisInfo function returns a string containing a semicolon-separated list of information about the named axis in the named graph window or subwindow.

#### Parameters

*graphNameStr* can be "" to refer to the top graph window.

When identifying a subwindow with *graphNameStr*, see **Subwindow Syntax** on page III-92 for details on forming the window hierarchy.

*axisNameStr* is the name of the graph axis.

#### Details

The string contains groups of information. Each group is prefaced by a keyword and colon, and terminated with a semicolon. The keywords are:

Keyword	Information Following Keyword
AXFLAG	Flag used to select the axis in any of the operations that display waves (Display, AppendMatrixContour, AppendImage, etc.).
AXTYPE	Axis type, such as "left", "right", "top", or "bottom".
CATWAVE	Wave supplying the categories for the axis if this is a category plot.
CATWAVEDF	Full path to data folder containing category wave.
CTRACE	Name of the trace controlling the names axis. See <b>Trace Names</b> on page II-282 for background information. This field was added in Igor Pro 9.00.
CWAVE	Name of wave controlling named axis.
CWAVEDF	Full path to data folder containing controlling wave.
FONT	Actual name of font used to draw axis tick labels.
FONTSIZE	Actual size of font used to draw axis tick labels, in points.
FONTSTYLE	Actual font style used to draw axis tick labels, in points. See <b>ModifyGraph (axes)</b> on page V-626 fstyle for the meaning of this integer value.
HOOK	Name set by ModifyFreeAxis with hook keyword.
ISCAT	Truth that this is a category axis (used in a category plot).
ISTFREE	Truth that this is truly free axis (created via NewFreeAxis).
MASTERAXIS	Name set by ModifyFreeAxis with master keyword.
RECREATION	List of keyword commands as used by ModifyGraph command. The format of these keyword commands is: <i>keyword(x)=modifyParameters;</i>
SETAXISCMD	Full SetAxis command.
SETAXISFLAGS	Flags that would be used with the SetAxis function to set the particular auto-scaling behavior that the axis uses. If the axis uses a manual axis range, SETAXISFLAGS is blank.
UNITS	Axis units, if any.

The format of the RECREATION information is designed so that you can extract a keyword command from the keyword up to the ";", prepend "ModifyGraph", replace the "x" with the name of an actual axis and then **Execute** the resultant string as a command.

#### Examples

```
Make/O data=x;Display data
Print StringByKey("Cwave", AxisInfo("", "left")) // Prints data
```