

Subwindow Command Concepts

All operations that create window types that can be subwindows can take a `/HOST=hcSpec` flag in order to create a subwindow in a specific host. In addition, operations and functions that can modify or operate on a subwindow can affect a specific subwindow using the `/W=hcSpec` flag, for operations, or an *hcSpec* as a string parameter, for functions.

Subwindow Syntax

This table summarizes the command line syntax for identifying a subwindow:

| Subwindow Specification | Location |
|-------------------------------|---|
| <i>baseName</i> | Base host window |
| <i>baseName</i> # <i>sub1</i> | Absolute path from base host window |
| # <i>sub1</i> | Relative path from the active window or subwindow |
| # | Active window or subwindow |
| ## | Host of active subwindow |

The window path uses the # symbol as a separator between a window name and the name of a subwindow. If you have a panel subwindow named P0 inside a graph subwindow named G0 inside a panel named Panel0, the absolute path to the panel subwindow would be `Panel0#G0#P0`. The relative path from the main panel to the panel subwindow would be `#G0#P0`.

Subwindow Syntax for Page Layouts

For page layout windows, the standard syntax described above applies to subwindows in the currently active page only. To access a subwindow in any page, whether that page is the active page or not, use a page number in square brackets:

| Subwindow Specification | Location |
|--|----------------------------------|
| <i>LayoutName</i> | Base host window, active page |
| <i>LayoutName</i> [<i>page</i>] | Base host window, specified page |
| <i>LayoutName</i> # <i>sub1</i> | Absolute path on active page |
| <i>LayoutName</i> [<i>page</i>]# <i>sub1</i> | Absolute path on specified page |

Page layout page numbers start at page 1.

This example embeds a graph in page 2 of the layout regardless of what the active page is:

```
NewLayout
LayoutPageAction appendPage           // Create page 2
LayoutPageAction page=1               // Page 1 is now the current page
Make/O wave0 = sin(x/8)
Display/HOST=Layout0[2] wave0         // Add a graph subwindow to page 2
ModifyGraph/W=Layout0[2]#G0 mode=3    // Set markers mode in graph subwindow
```

Subwindow Sizing

When `/HOST` is used in conjunction with **Display**, **NewPanel**, **NewWaterfall**, **NewImage**, **NewGizmo** and **Edit** commands to create a subwindow, the values used with the window size `/W=(a, b, c, d)` flag can have one of two different meanings. If all the values are less than 1.0, then the values are taken to be fractional relative to the host's frame. If any of the values are greater than 1.0, then they are taken to be fixed locations measured in points relative to the top left corner of the host.