1   Matlab Help on Subplot

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 SUBPLOT Create axes in tiled positions.
    H = SUBPLOT(m,n,p), or SUBPLOT(mnp), breaks the Figure window
    into an m-by-n matrix of small axes, selects the p-th axes for
    for the current plot, and returns the axis handle.  The axes
    are counted along the top row of the Figure window, then the
    second row, etc.  For example,

        SUBPLOT(2,1,1), PLOT(income)
        SUBPLOT(2,1,2), PLOT(outgo)

    plots income on the top half of the window and outgo on the
    bottom half. If the CurrentAxes is nested in a uipanel the
    panel is used as the parent for the subplot instead of the
    current figure.

    SUBPLOT(m,n,p), if the axis already exists, makes it current.
    SUBPLOT(m,n,p,'replace'), if the axis already exists, deletes it and
    creates a new axis.
    SUBPLOT(m,n,p,'v6') places the axes so that the plot boxes
    are aligned, but does not prevent the labels and ticks from
    overlapping. Saved subplots created with the 'v6' option are
    compatible with MATLAB 6.5 and earlier versions.
    SUBPLOT(m,n,P), where P is a vector, specifies an axes position
    that covers all the subplot positions listed in P.
    SUBPLOT(H), where H is an axis handle, is another way of making
    an axis current for subsequent plotting commands.

    SUBPLOT('position',[left bottom width height]) creates an
    axis at the specified position in normalized coordinates (in
    in the range from 0.0 to 1.0).

    SUBPLOT(m,n,p, PROP1, VALUE1, PROP2, VALUE2, ...) sets the
    specified property-value pairs on the subplot axis. To add the
    subplot to a specific figure pass the figure handle as the
    value for the 'Parent' property.

    If a SUBPLOT specification causes a new axis to overlap an
    existing axis, the existing axis is deleted - unless the position
    of the new and existing axis are identical.  For example,
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the statement SUBPLOT(1,2,1) deletes all existing axes overlapping
the left side of the Figure window and creates a new axis on that
side – unless there is an axes there with a position that exactly
matches the position of the new axes (and 'replace' was not specified),
in which case all other overlapping axes will be deleted and the
matching axes will become the current axes.

SUBPLOT(111) is an exception to the rules above, and is not
identical in behavior to SUBPLOT(1,1,1). For reasons of backwards
compatibility, it is a special case of subplot which does not
immediately create an axes, but instead sets up the figure so that
the next graphics command executes CLF RESET in the figure
(deleting all children of the figure), and creates a new axes in
the default position. This syntax does not return a handle, so it
is an error to specify a return argument. The delayed CLF RESET
is accomplished by setting the figure's NextPlot to 'replace'.

Be aware when creating subplots from scripts that the Position
property of subplots is not finalized until either a drawnow
command is issued, or MATLAB returns to await a user command.
That is, the value obtained for subplot i by the command
get(h(i),'Position') will not be correct until the script
refreshes the plot or exits.

Backwards compatibility
Use the SUBPLOT 'v6' option and save the figure with the 'v6'
option when you want to be able to load a FIG-file containing
subplots into MATLAB Version 6.5 or earlier.

See also gca, gcf, axes, figure, uipanel