GRAPHICAL ENHANCEMENTS

DireXions 2024

LARGER PANELS AND MORE CONTROLS

Support for larger screens and more controls

- Dialogs now 620 columns by 255 rows

- Up to 999 controls on a panel

- Concurrent panels up to 199 controls

See 'NOMADS Panel Designer Enhancements'
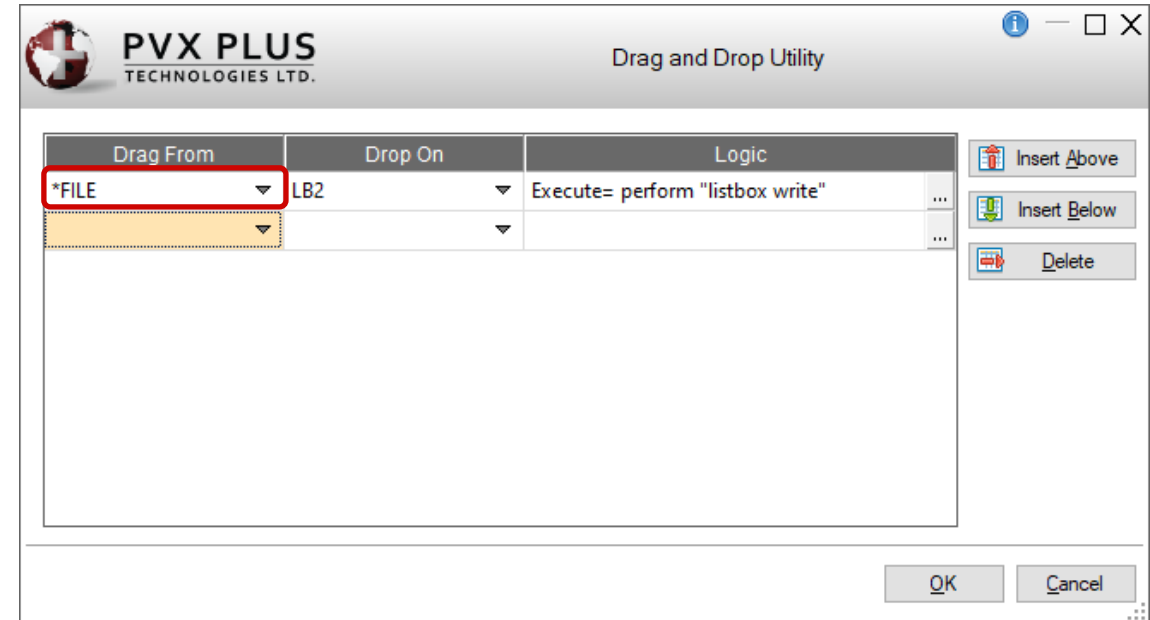PDF for more details

HTML COLORS

- Ability to select [HTML Named Colors](#)

- 140 standard HTML colors

- To use HTML color name, prefix with # symbol i.e. #CornFlowerBlue

- New HTML Color drop box in Color Selections dialog in NOMADS panel designers

- Also available in iNomads
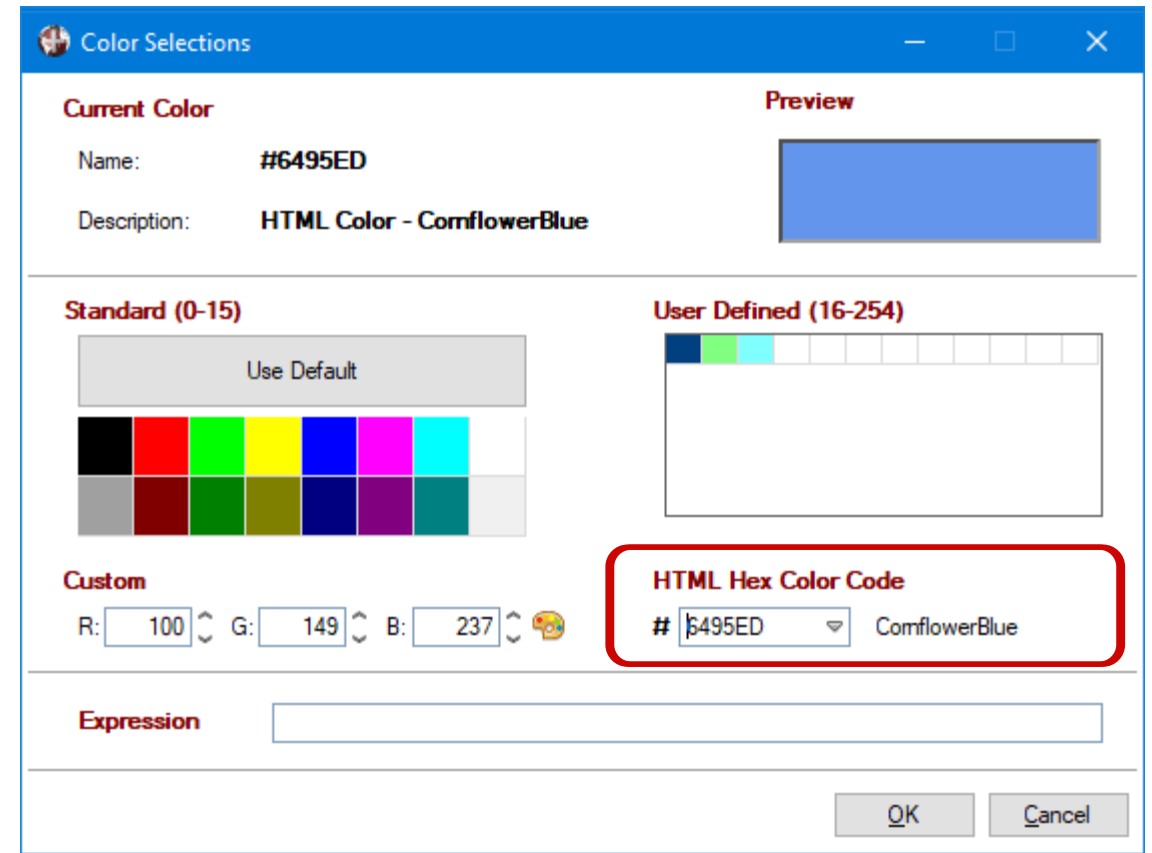
DRAG AND DROP ENHANCEMENTS

- **Drag and Drop** between concurrent windows
- Use *FILE to allow external applications, such as Windows Explorer, to drop file names onto a destination input control.


See 'NOMADS Panel Designer Enhancements'
PDF for more details

BRIDGING THE PAST AND THE FUTURE

FRAME MNEMONIC

- New Options added to **FRAME** mnemonic
  - Text Color, Frame Highlight Color, Frame Shadow Color

  - 'FRAME'(x,y,x,y,style[,title$ [,**textColor$**[,**frameHilightColor$**[,**frameShadowColor$**]]]])

    - **textColor$** - Color of the header text. Optional. (Default: Black)
    - **frameHilightColor$** - Color of highlight line. Optional. (Default: Light Gray)
    - **frameShadowColor$** - Color of shadow line. Optional. (Default: Dark Gray)

    Example
    print 'frame'(100,100,300,300,0,"Details","red","green","blue")
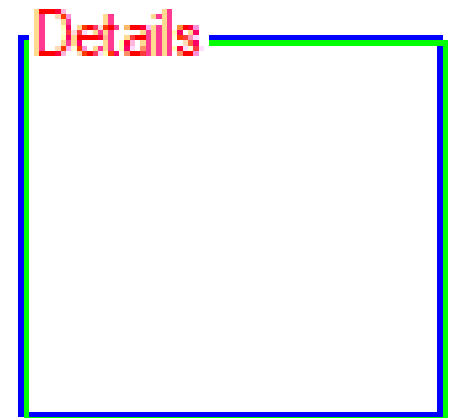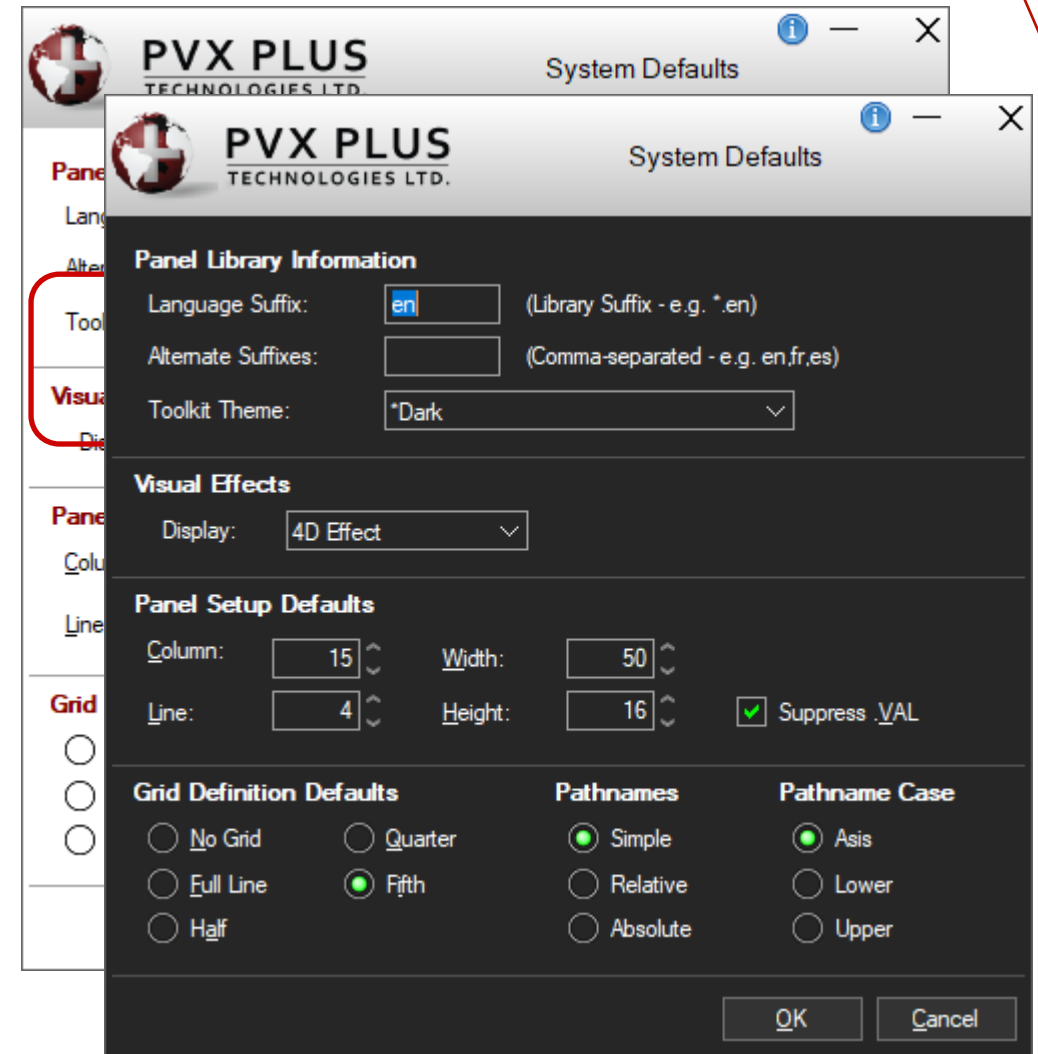
THEMES AND VISUAL CLASSES

- Themes are now part of 2024 install – installation now comes with defined themes

- Improved overall usability and interaction with themes

- Created Dark and Light themes
  - Updated visual classes to support above themes

- Added new Themes and Visual Classes properties to existing controls

- Themes and Visual Classes properties now available for Shapes, Menu Bar and Popup Menu controls

- New Copy Theme
  - Utility used to copy a theme and associated visual classes

See 'Themes and Visual Classes Overview' PDF
for more details
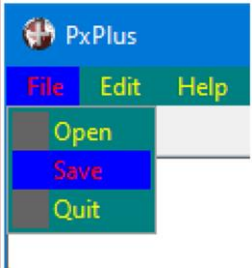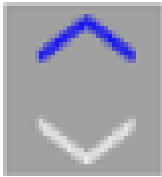
TOOLKIT THEME

- Introduced in PxPlus 2024

- Toolkit Theme can be set to Dark mode, Light mode, or Default (None)

- Selected theme will be applied to the entire PxPlus toolkit with some exceptions

- Toolkit Theme is selected using Systems Defaults

- Available on the IDE and NOMADS Session Manager

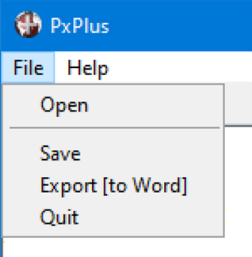See 'Application Look and Feel' PDF for more details

DIRECTIVES – UPDATED

DIRECTIVE	Description
MENU_BAR	New Parameters added for specifying hover background color, hover text color, and menu text color. In addition, option to apply colors to Top Level Menu. HFILL - Hover background color for mouse over menu items HTEXT - Hover text color for mouse over menu items TEXT - Text color for menu text menu_bar 10,"!LEFT(RGB:100,100,100),FILL(DarkCyan), **HFILL(Blue),HTEXT(Red),TEXT(Yellow)**)[&File,&Edit,&Help],F:[&Open,&Save,&Quit],E:[&Add,&Delete] If the first character of the menu definition is an ! (exclamation point), or a first or second character of - (dash) is also specified, then the specified colors will also be applied to the top level menu.
BUTTON	New "I" Option added for creating a spinner button button spin_btn,@(2,14,4,2)="",opt="lf" spin_btn'backColor$="dark gray" spin_btn'textColor$="gray" spin_btn'hoverTextColor$="blue" Prior to PxPlus 2024, spinner buttons on multi-lines used vertical scroll bars Under Windows 11, scroll bars only display when hovering over, thus making spinners on multi-lines basically invisible All multi-lines with spinners now use the new spinner in PxPlus 2024.

DIRECTIVES – UPDATED

DIRECTIVE	Description
MENU_BAR Find	New Find format returns a string consisting of all the menu bar character codes, followed by a colon and their settings. MENU_BAR 120,"[&File],F:[&Open,,&Save,&Quit=4]" MENU_BAR FIND X$ Print X$ F:E,H:E,FO:E,FS:E,FQ:E,HI:E,HP:E,HS:E,HL:E,HM:E,HU:E
MENU_BAR Load	New Load format sets the enabled/disabled and optionally the On/Off status of menu bar entries based on their codes. "E" for **E**nabled or "D" for **D**isabled, and optionally "C" for **C**hecked (On). MENU_BAR LOAD "M:D,B:E,BP:EC"
MENU_BAR POPUP_MENU	Added support for Inclusion of Special Characters to define the menu. MENU_BAR 120,"\[&File],F:[&Open,,&Save,&Export \[to Word\],&Quit=4]" POPUP_MENU @(col,row),"\[&File],F:[&Open=1,,&Save,&Export \[to Word\]=2,&Quit=4]",X Above Menu_Bar example adds an entry in the menu bar to read "Export [to Word]"

'OPTION' MNEMONICS

'OPTION' MNEMONICS

- Used for setting specific environment properties at run time within a session

  - **Example**

    Print 'OPTION'("DrpBtnTickClr","Red")

    SETDEV (0) SET "DrpBtnTickClr" TO "Red"

'OPTION' MNEMONICS – GRAPHICAL

OPTION	Description
StdLvueLineClr	Defines the text color when the mouse is over a row in a List View. (Report View Only)
StdGridLineClr	Sets the standard/default line color for all subsequent grids. (Default is RGB: 220,220,220)
StdGridHideButtons	Sets the default 'HideButtons property for all subsequent grids.
StdGridQueryImg	This option defines the image to use in the query/lookup buttons of a grid. The value of the setting is an image pathname or internal image (!xxxxxx). An invalid value will result in the original ellipsis (...) being used.
TipColor	Defines the color for non-HTML tips. Valid formats for defining a color include predefined system color names (e.g. LightRed), RGB values, HSL values, Hex color codes, color blending, and dynamic color lightening.

'OPTION' MNEMONICS – GRAPHICAL

OPTION	Description
ClrPlusZ_SB_Back	Sets background for any 'SB' data. (Default: Light Gray button face color)
ClrPlusZ_SF_Back	Sets background for any 'SF' data. (Default: White)
ClrPlusZ_Text	Sets text. (Default: Black)
LockOverDisable	When set ("1" or "Y"), Multi_Line input fields that are **both** locked **and** disabled will display as locked (as opposed to disabled).

'OPTION' MNEMONICS – GRAPHICAL

- These options control the color of the drop box button and tick color

OPTION	Description
DrpBtnBackClr	Background color of the Drop Box button.
DrpBtnDisableBackClr	Background color of the Drop Box button when the Drop Box is disabled.
DrpBtnHoverBackClr	Hover background color of the Drop Box button. Defaults to the Windows hover color if no drop button colors are set; otherwise, defaults to the drop button background color but is 25% lighter.
DrpBtnHoverTickClr	Hover color of the down arrow/tick on the Drop Box button. Defaults to the Windows tick color if no drop button colors are set; otherwise, defaults to the drop button tick color but is 25% lighter.
DrpBtnTickClr	Color of the down arrow/tick on the Drop Box button.

PROPERTIES

PROPERTIES

- Properties for control objects can be changed dynamically using a control's assigned CTL value (Check Boxes, Grids, etc.)

  - **Example**

    InvoiceGrid.ctl'LockBackColor$="Gray"
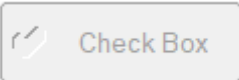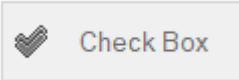
    PaymentDB.ctl'FrameColor$="#DC143C"

CHECK BOX IMPROVEMENTS
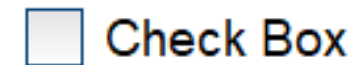
Property	Description	Example
'CbFrameColor$	Color of the Check Box frame for standard Check Box	☐ Check Box
'CbHoverColor$	Color of the hover rectangle for standard Check Box	☐ Check Box
'CbMarkColor$	Color of the check mark for standard Check Box	☑ Check Box
'GrayDisabledBmp	Disabled color when a bitmap exists - shadow, gray scale	Check Box Check Box

RADIO BUTTON IMPROVEMENTS

Property	Description	Example
'RbFrameColor$	Color of the standard Radio Button frame	◯ Radio Button
'RbHoverColor$	Color of the hover circle for standard Radio Button	◯ Radio Button
'RbMarkColor$	Color of the circle for standard Radio Button	◉ Radio Button
'GrayDisabledBmp	Disabled color when a bitmap exists - shadow, gray scale	Radio Button Radio Button

BUTTON IMPROVEMENTS

Property	Description	Example
'GrayDisabledBmp	Disabled color when a bitmap exists - shadow, gray scale	

DROP BOX IMPROVEMENTS

Property	Description	Example
'ButtonBackColor$	Background color of the Drop Box button	
'ButtonTickColor$	Color of the down arrow/tick	
'FrameColor$	Color of the frame/border	
'ButtonHoverBackColor$	Background hover color of a Drop Box button	
'ButtonHoverTickColor$	Hover color of the down arrow/tick	
'ButtonDisableBackColor$	Background disabled color of a Drop Box	

BRIDGING THE PAST AND THE FUTURE

GRID IMPROVEMENTS

New Grid Properties

Property	Description	Example
'HdrHeight	Header Height in pixels 0 - No header -1 - Restores to default	
'LineColor$	Grid Line colors	
'SuppressHdr	Suppression of headers 0 - Headers not suppressed 1 - Row Header suppressed (left side) 2 - Column Header suppressed (top) 3 - Both Headers suppressed	

BRIDGING THE PAST AND THE FUTURE

GRID IMPROVEMENTS

Property	Description	Example
'CurrentCellColor$	Text color of current cell	
'LockBackColor$	Background color when the Grid cell is locked	
'LockTextColor$	Foreground text color when the Grid cell is locked	

GRID IMPROVEMENTS

Property	Description	Example
'RowHeaderBackColor$	Background color for row column (left)	
'RowHeaderTextColor$	Text color for row column (left)	
'ForegroundButtonColor$	Foreground text color for system-generated buttons	

GRID IMPROVEMENTS

Property	Description
'CellsNumeric	Forces cell to only accept numeric data
'CellBlankWhenZero	Display null when value is zero
'MaxListItems	Number of lines in a drop list in Grid controls
'ButtonColor$	Background color for system-generated buttons, Drop Box and Query buttons
'SkipLockedCells	Skip over locked cells horizontally or vertically using arrow buttons 0 - Do not skip over locked cells 1 - Skip over locked cells when advancing *horizontally* (Left/Right arrow) ***(Default)*** 2 - Skip over locked cells when advancing *vertically* (Up/Down arrow) 3 - Skip over locked cells ***both*** *vertically* and *horizontally*
'HideButtons	Hide query buttons or drop box icons if there is a bitmap
'PasteFilter	Strip leading/trailing non-printing characters from data copied/pasted; i.e. line feeds, tabs

MULTI-LINE IMPROVEMENTS

Property	Description	Example
'OnDoubleClick	Generates CTL event when double clicked	
'PasteFilter	Strip leading/trailing non-printing characters from data copied/pasted. i.e. line feeds, tabs	
'Password	Password masked data	
'LockBackColor$	Background color when locked	Multi line
'LockTextColor$	Foreground text color when locked	Multi line
'FrameColor$	Color of the frame/border	Multi line
Support for 'DisableBackColor$, 'DisableTextColor$ and 'TextColor$ properties added to Rich Text controls		

LIST BOX IMPROVEMENTS

Property	Description
'HdrHeight	Header Height in pixels 0 - No header -1 - Restores the height to its default size
'LineColor$	Grid line colors
'FrameColor$	Color of the frame/border
Added "I" option to the 'FindOptions$ property to include a bitmap name when searching in a Report View List Box	