

UI Modernization - Rounded Corners, Focus Rectangle & More

DireXions 2026 - Developing the Future

The Need to Modernize

First impressions

- What counts as “modern” has changed in the last 5 to 10 years
- New customers judge the look before they see what the software can do
- An outdated look can make them hesitate or choose another solution
- Long-time users get used to it; new customers notice it immediately

Why it matters

- Between similar applications, the modern-looking one is more likely to win over customers
- Existing customers expect a product that still feels current
- Modernizing does not mean rebuilding: small in-place changes can be enough

Agenda

New Properties

Demos

New Option Mnemonics

Themes & Visual Classes

Data Class Definitions

Light & Dark Theme Update

Demos (In-Depth Look)



New Properties

CornerRadius$

- Buttons
- Check Boxes (Bitmap)
- Radio Buttons
- Multi-Lines
- Drop Boxes
- List Boxes
- Tri-State Check Boxes (Bitmap)
- Variable Drop Boxes

CBCornerRadius$

- Check Boxes
- Tri-State Check Boxes

New Properties

FocusRect

- Buttons
- Check Boxes
- Drop Boxes
- Variable Drop Boxes
- List Boxes
- Radio Buttons
- Tri-State Check Boxes

FieldHeight

- Drop Boxes
- Variable Drop Boxes

Vertically Centered Text

- Multi-lines

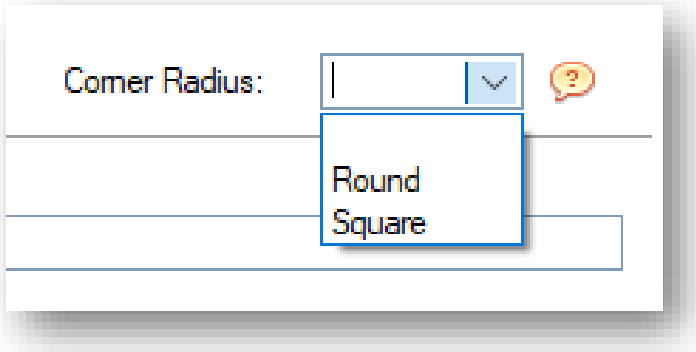
New Properties

Misc.

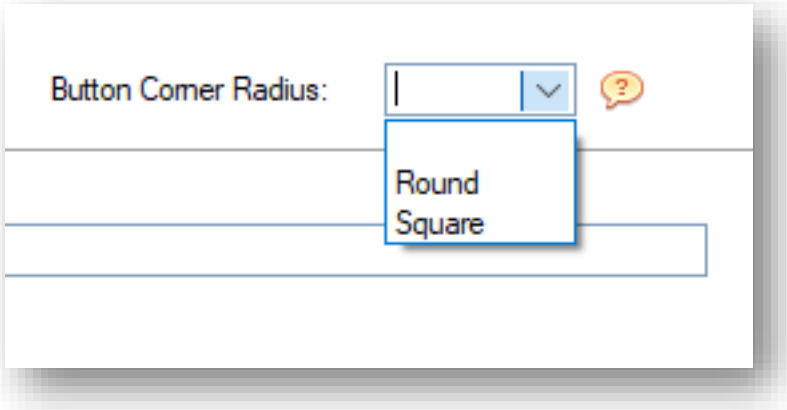
- Actual radius depends on control size: It will create the control as round as possible

- 4D must be on
- Print '4D'
- "Square" = 0
- "Round" = 3
- Null = ""

Button Attributes Tab



Check Box Attributes Tab



DEMOS

Calculator

- A simple, everyday program
- A small, single-purpose panel



Before → After

Car Purchase Screen

- Purchasing the new 2026 Generic Sedan
- A fuller screen with several sections



Before → After

Two existing applications we want to modernize

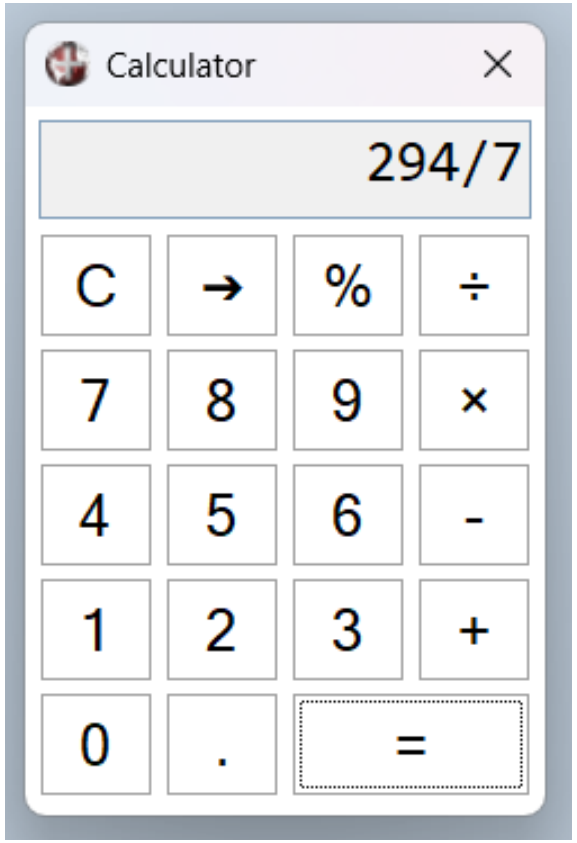
CornerRadius$

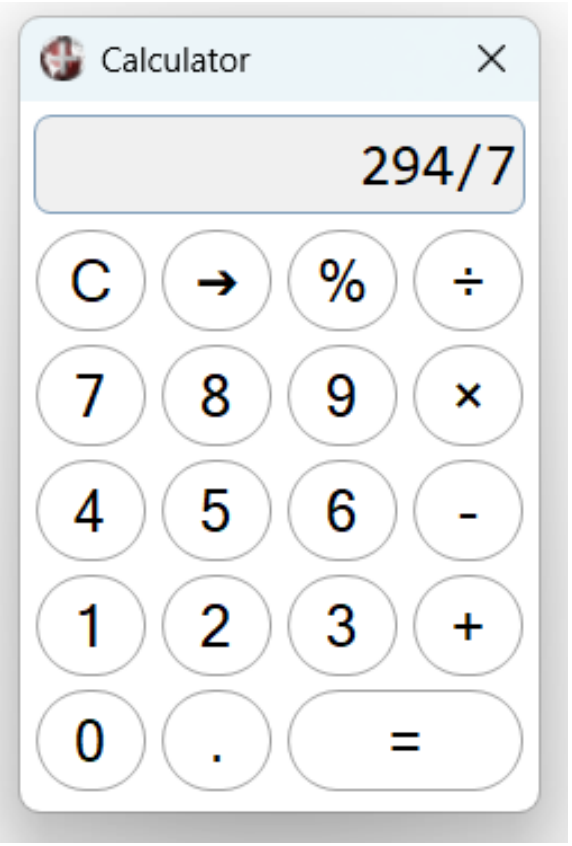
Buttons

Radius Range: 0 to 255px




```
! Example
BUTTON 100,@(10,10,12,3)="Rounded Button"
y=100
y'CornerRadius$="round"    ! Square, 255, etc.
```

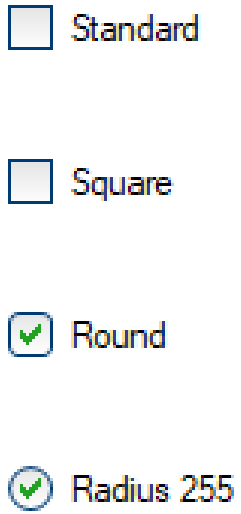


Buttons are using radius 30px

CBCornerRadius$

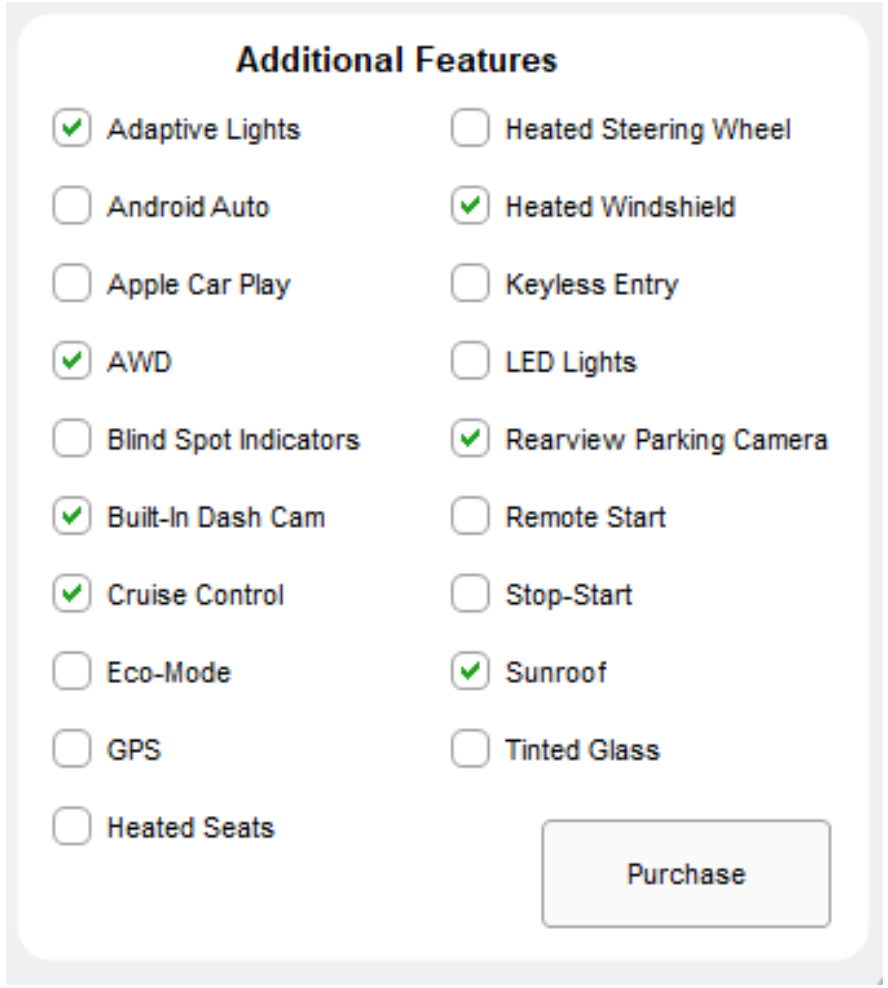
Check Boxes

Radius Range: 0 to 255




```
! Example
CHECK_BOX 100,@(10,20,18,3)="Rounded CB"
y=100
y'CBCornerRadius$="round"    ! Square, 255, etc.
```

Rounded CB



Check Boxes are using radius 4

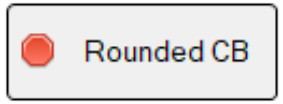
CornerRadius$

Check Boxes (Bitmap)

Radius Range: 0 to 255



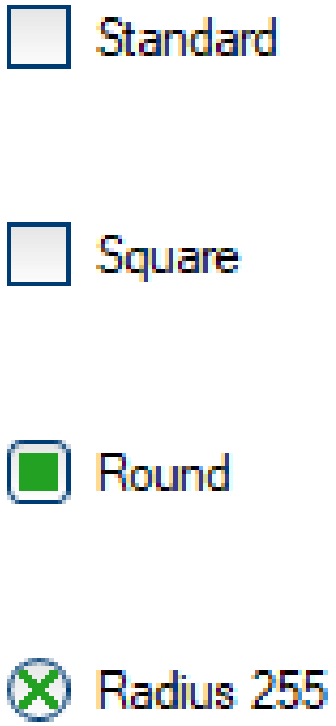

```
! Example
CHECK_BOX 100,@(10,20,18,3)="{!Stop}Rounded CB"
y=100
y'CornerRadius$="round"    ! Square, 255, etc.
```



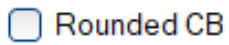
CBCornerRadius$

Tri-State Check Boxes

Radius Range: 0 to 255




```
! Example
TRISTATE_BOX 100,@(10,20,18,3)="Rounded Tristate CB"
y=100
y'CBCornerRadius$="round"    ! Square, 255, etc.
```



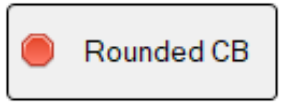
CornerRadius$

Tri-State Check Boxes (Bitmap)

Radius Range: 0 to 255



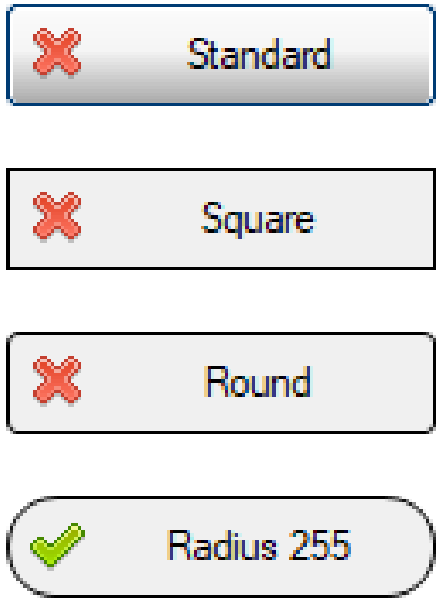

```
! Example
TRISTATE_BOX 100,@(10,20,18,3)="{!Stop}Rounded Tristate CB"
y=100
y'CornerRadius$="round"    ! Square, 255, etc.
```



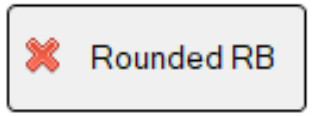
CornerRadius$

Radio Buttons (Bitmap)

Radius Range: 0 to 255




```
! Example
RADIO_BUTTON 100:1,@(10,10,18,3)="{!X}Rounded RB"
y=100
y'CornerRadius$="round"    ! Square, 255, etc.
```



CornerRadius$

Multi-Lines

Radius Range: 0 to 7

Standard

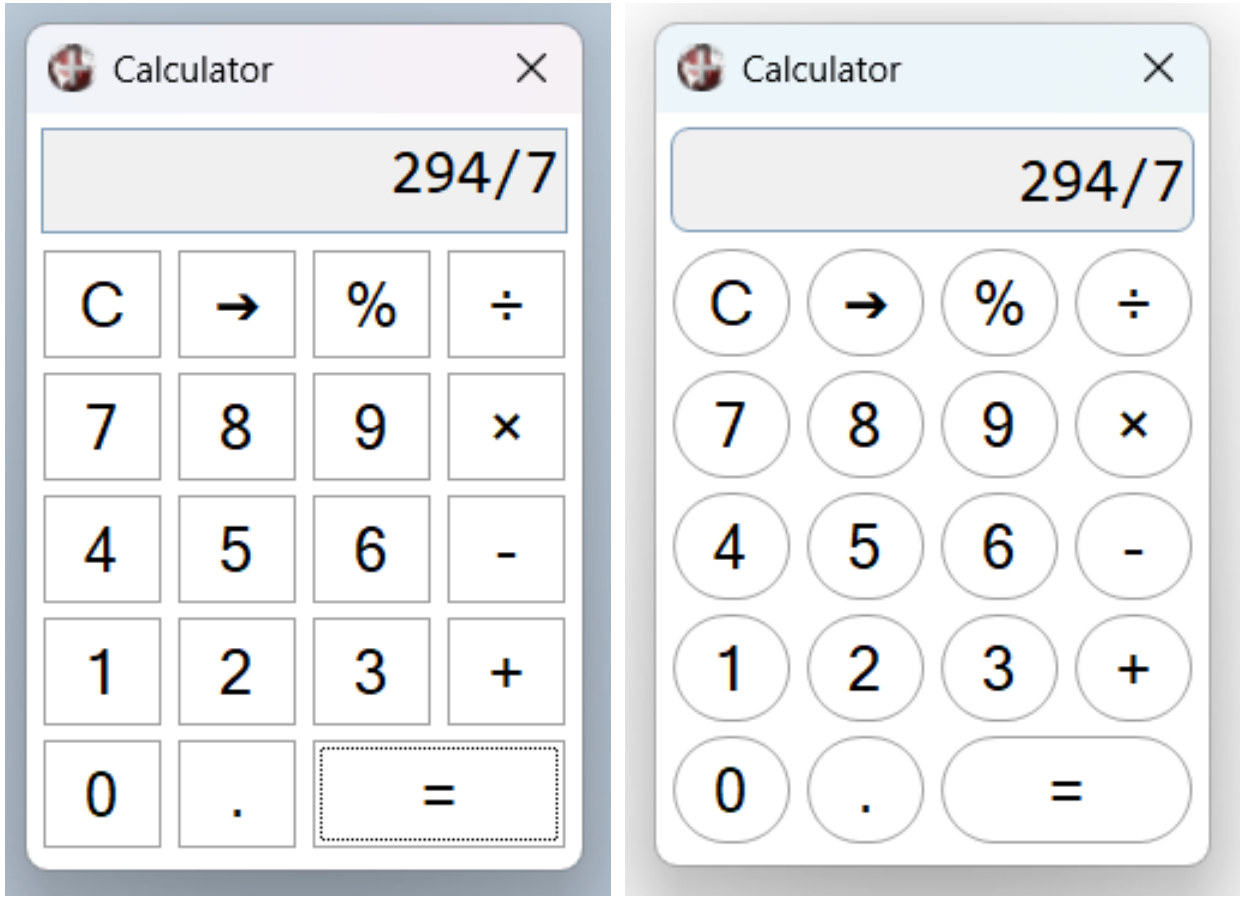
Square

Round

Radius 7

```
! Example
MULTI_LINE 100,@(10,10,18,3)
y=100
y'CornerRadius$="round"    ! Square, 7, etc.
```

Round ML

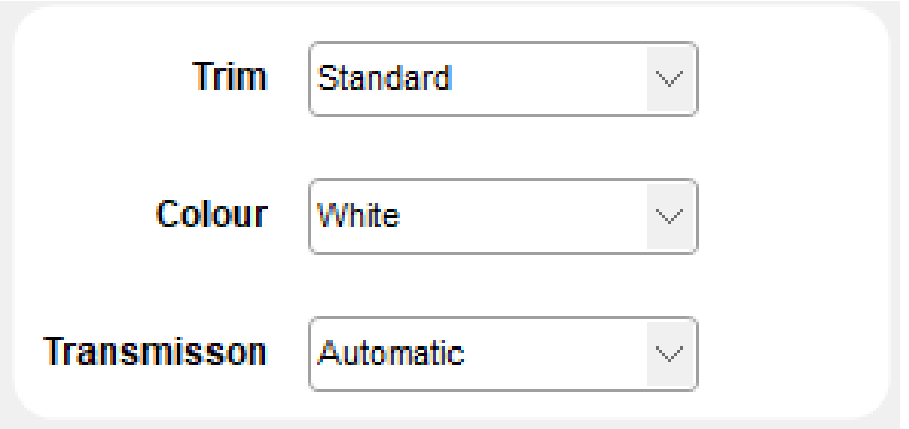


Multi-line has a radius of 7

CornerRadius$

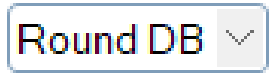
Drop Boxes & Variable Drop Boxes

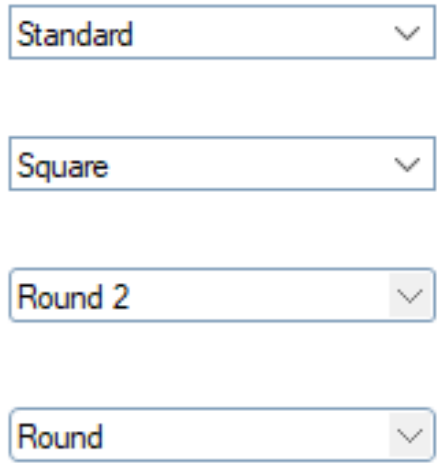
Radius Range: 0 to 3



Drop boxes are using radius 3

```
! Example
DROP_BOX 100,@(10,15,12,8)
DROP_BOX LOAD 100,"Round DB/Cat/Dog/Pig/Horse/"
! VARDROP_BOX can also be used
y=100
y'CornerRadius$="round"    ! Square, 3, etc.
```





CornerRadius$

List Boxes

Radius Range: 0 to 8

Exceptions: Report View, Variable List Box

Standard

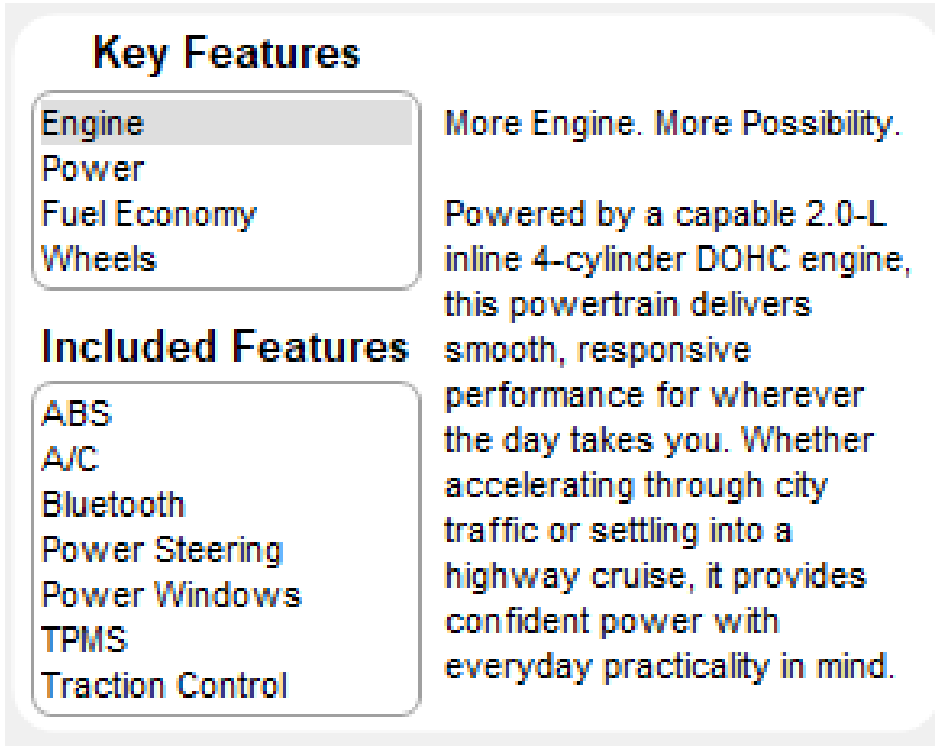
Square

Round

Radius 8

```
! Example
LIST_BOX 100,@(10,15,12,8)
LIST_BOX LOAD 100,"Round LB/Cat/Dog/Pig/Horse/"
y=100
y'CornerRadius$="round"    ! Square, 8, etc.
```

Round LB
Cat
Dog
Pig
Horse

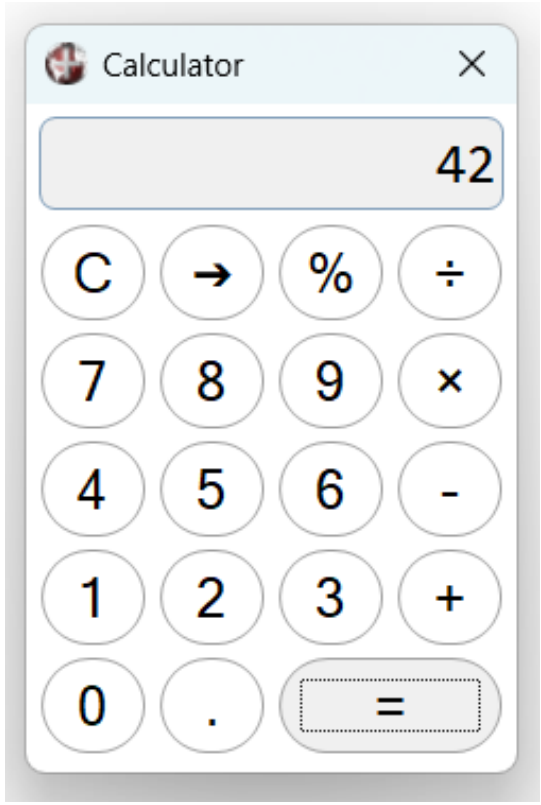


List boxes are using radius 6

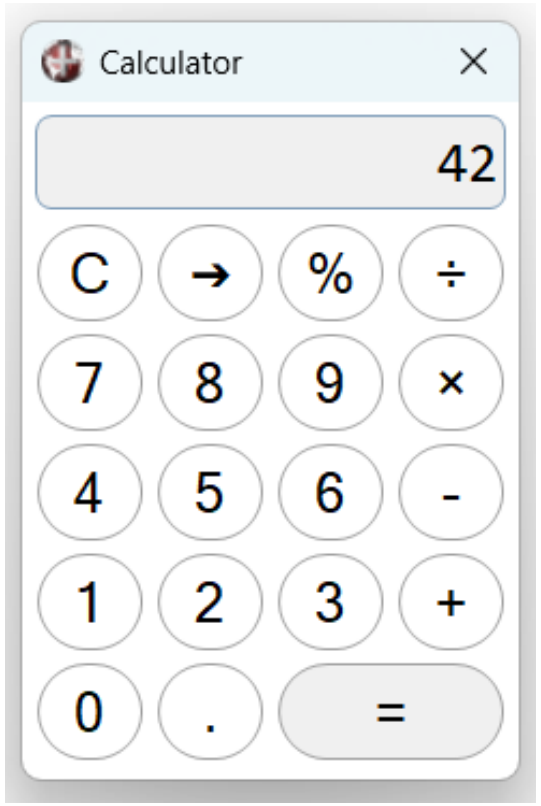
FocusRect

Buttons

```
! Example
BUTTON 100,@(10,10,12,3)="No Focus Rect"
y=100
y'FocusRect=0    ! 1/0
```



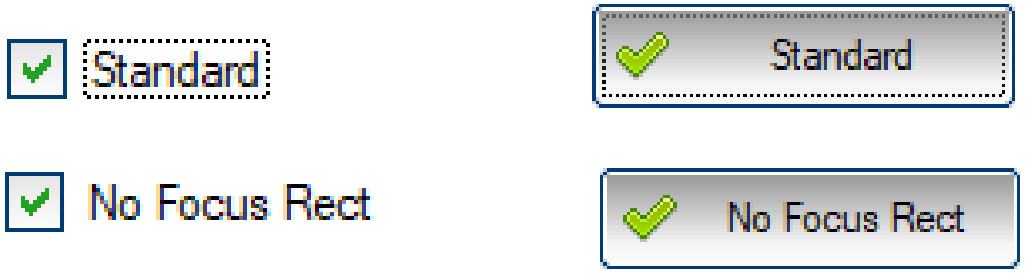
With Focus Rectangle



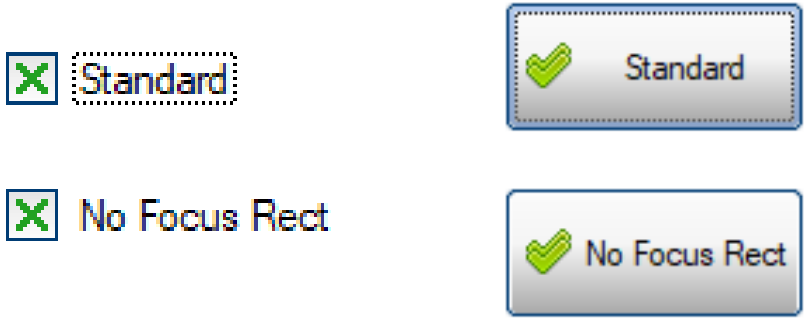
No Focus Rectangle

FocusRect

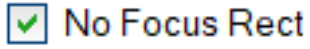
Check Boxes



Tri-State Check Boxes




```
! Example
CHECK_BOX 100,@(10,10,16,3)="No Focus Rect"
y=100
y'FocusRect=0    ! 1/0
```




```
! Example
TRISTATE_BOX 100,@(10,10,16,3)="No Focus Rect"
y=100
y'FocusRect=0    ! 1/0
```

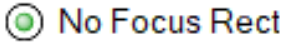


FocusRect

Radio Buttons




```
! Example
RADIO_BUTTON 100:1,@(10,10,18,3)="No Focus Rect"
y=100
y'FocusRect=0    ! 1/0
```



FocusRect

Drop Boxes



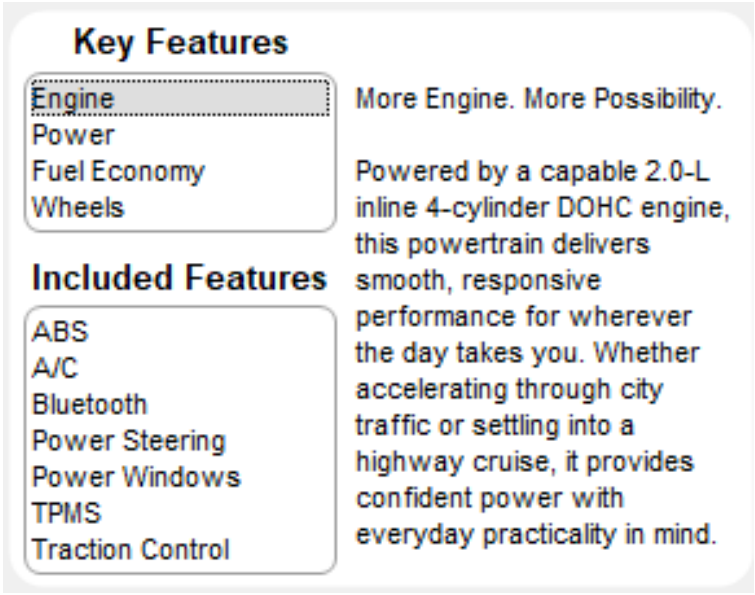



```
! Example
DROP_BOX 100,@(10,15,18,8)
DROP_BOX LOAD 100,"No Focus Rect/Cat/Dog/Pig/Horse/"
y=100
y'FocusRect=0   ! 1/0
```

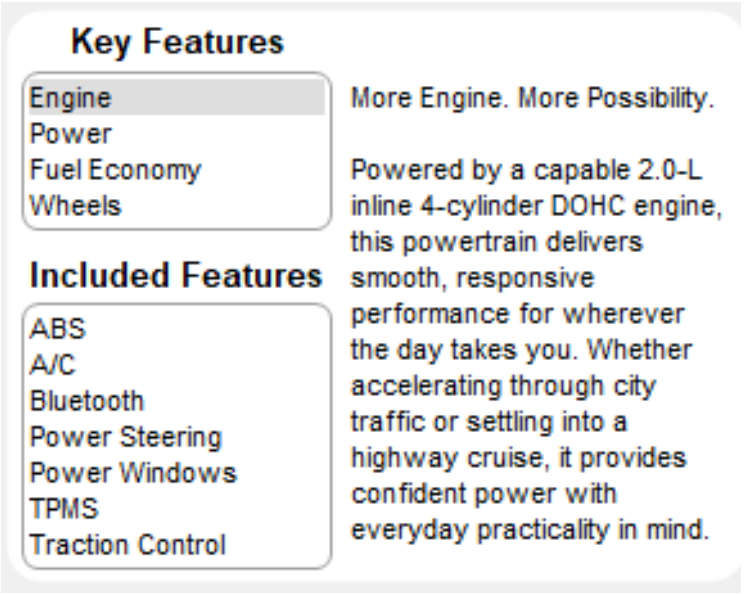


FocusRect

List Boxes

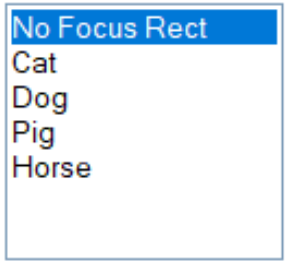


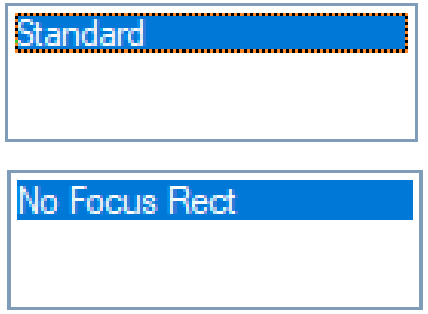
With Focus Rectangle



No Focus Rectangle

```
! Example
LIST_BOX 100,@(10,15,18,8)
LIST_BOX LOAD 100,"No Focus Rect/Cat/Dog/Pig/Horse/"
y=100
y'FocusRect=0   ! 1/0
```

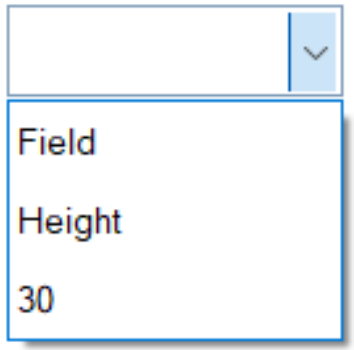


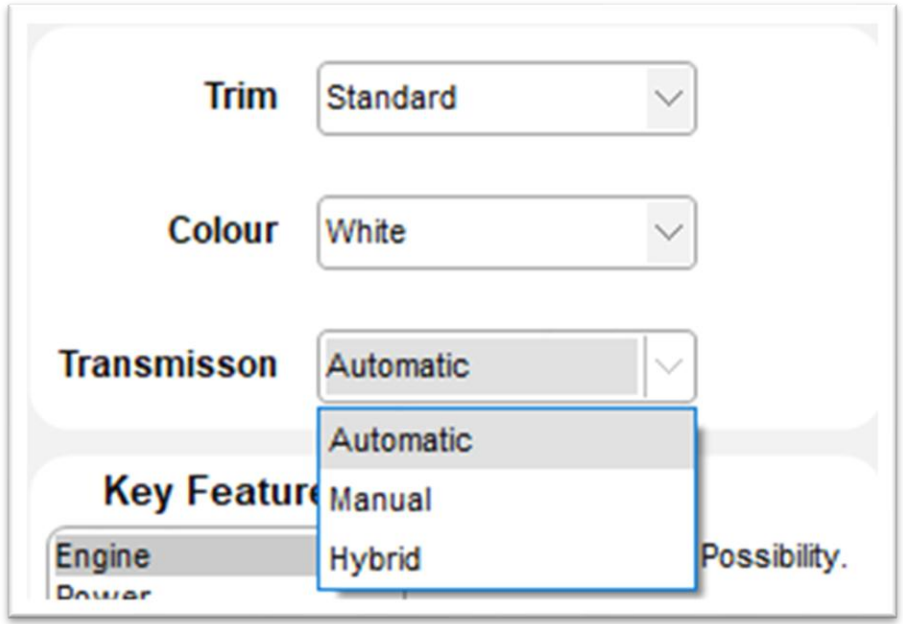


FieldHeight

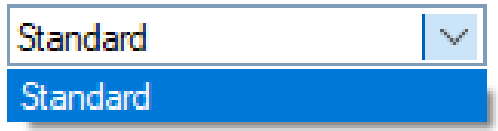
Drop Boxes & Variable Drop Boxes

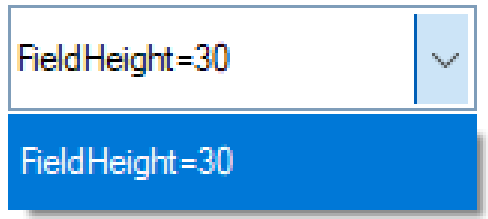
```
! Example
DROP_BOX 100,@(10,15,18,8)
DROP_BOX LOAD 100,"Field/Height/30/"
! VARDROP_BOX can also be used
y=100
y'FieldHeight=30
```





Field Height of 20px

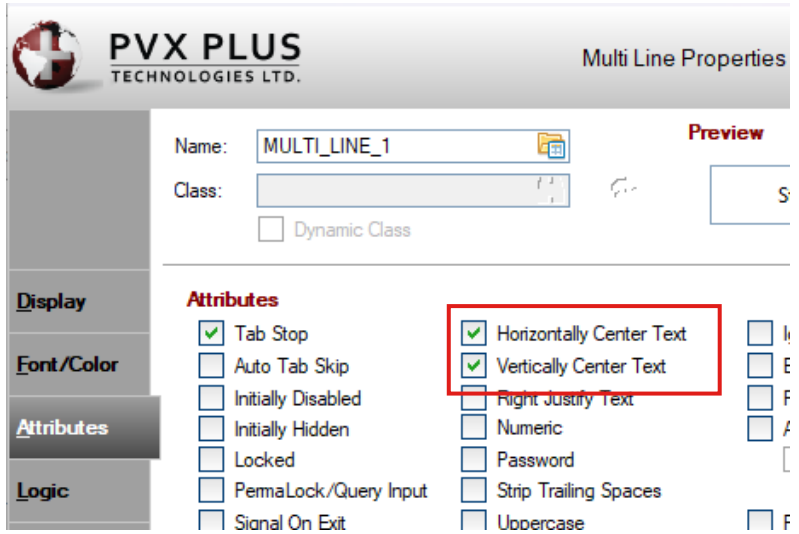




Vertically Centered Text

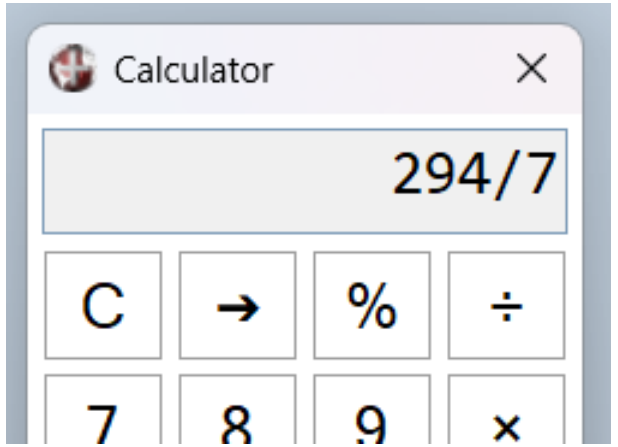
Multi-Lines

- Can be set in the Multi-line Attributes tab
- OPT="m"
- Renamed 'Center Text' to 'Horizontally Center Text'

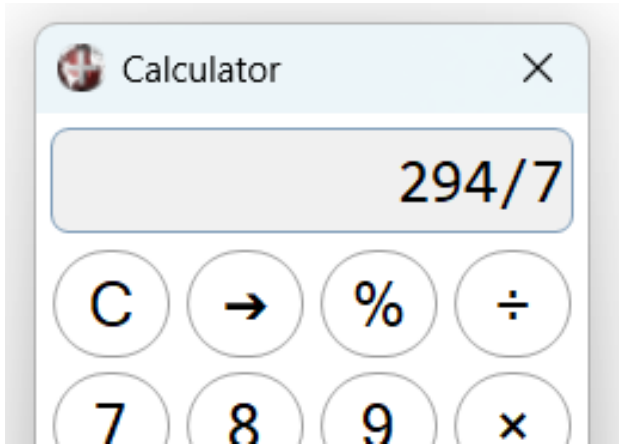



```
! Example
MULTI_LINE 100,@(10,15,12,3),opt="m"
```

Centered



Multi-line is not vertically centered

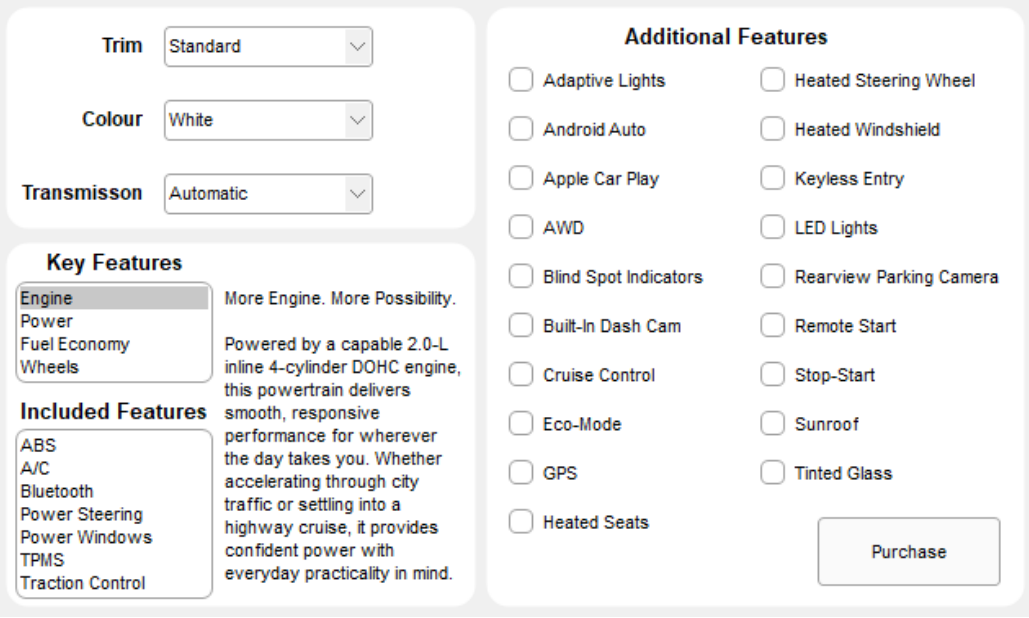


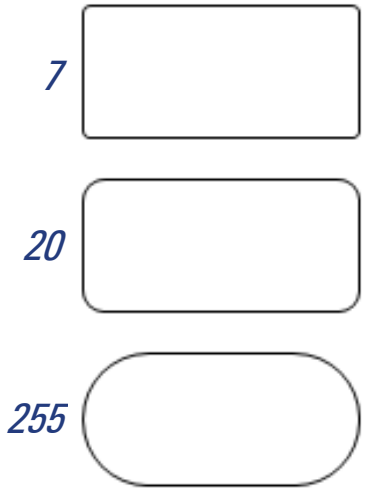
Multi-line is vertically centered

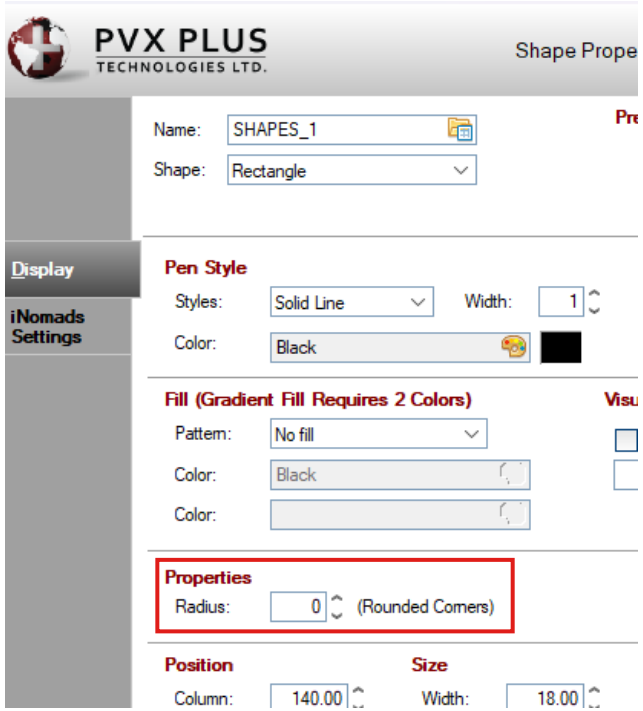
Rounded Rectangle Shape

Rectangle Shape

Radius Range: 0 to 255







Shapes use rounded corner radius of 30

Progress Bar

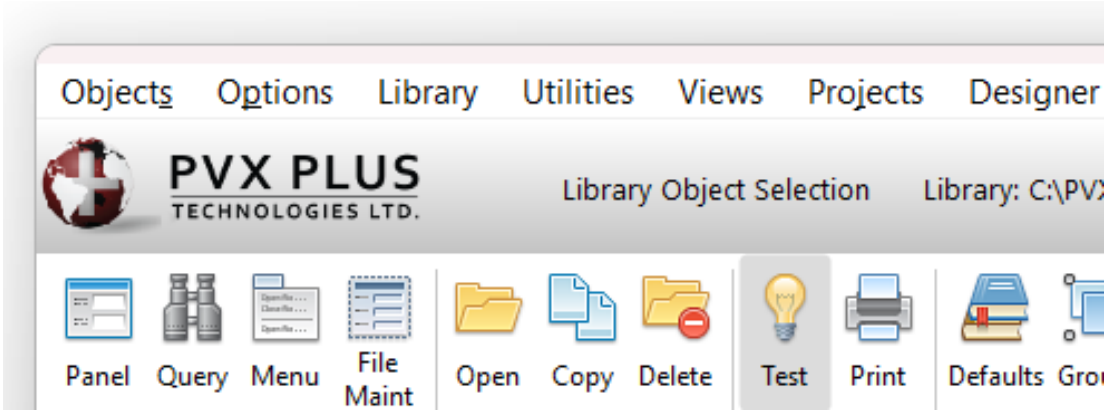
*PROGBAR

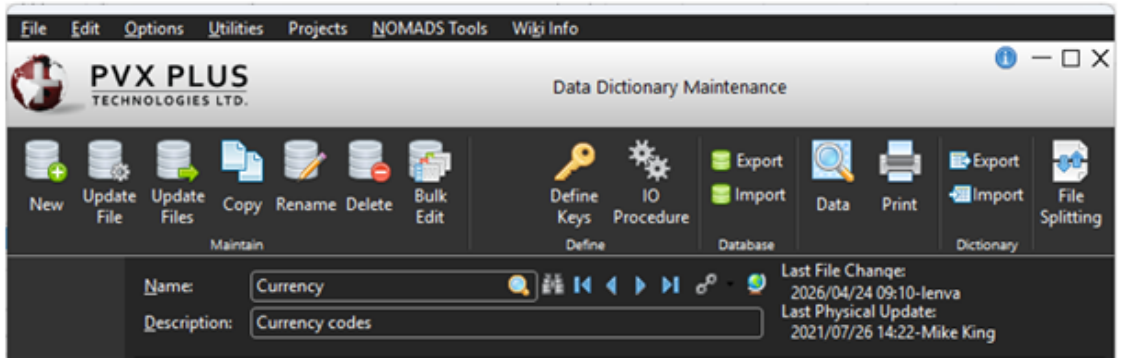
Now uses rounded corners

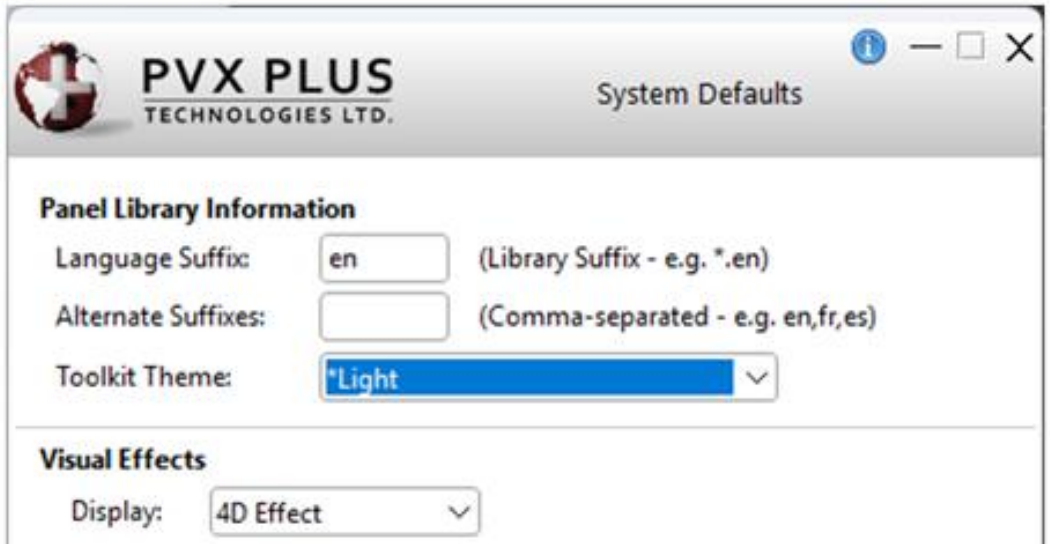



```
! Example
%_PROGBAR_FONT$ = "Consolas"
CALL "*progbar;Init", "Progress Bar", 30, 20, 20
CALL "*progbar;Update_percent", "Progress Text", 33
```

Rounded Toolkit Dialogs







New Option Mnemonics

Corner Radius

- CornerRadBtn
- CornerRadCB
- CornerRadCBImg
- CornerRadDB
- CornerRadLB
- CornerRadML
- CornerRadRBImg

Focus Rectangle

- FocusRectBtn
- FocusRectCB
- FocusRectDB
- FocusRectLB
- FocusRectRB

Tab Button Close

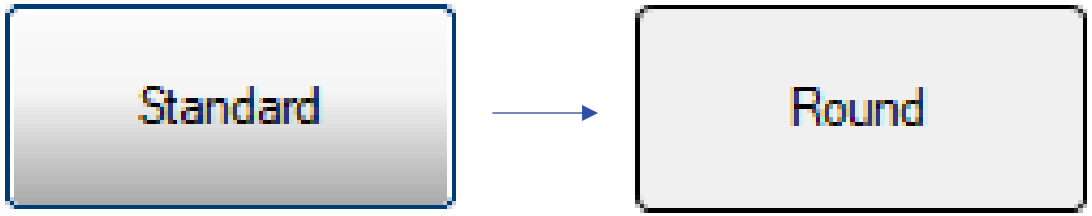
- TabBtnCloseHoverIcon
- TabBtnCloseIcon

Corner Radius Option Mnemonics

Corner Radius

- CornerRadBtn
- CornerRadCB
- CornerRadCBImg
- CornerRadDB
- CornerRadLB
- CornerRadML
- CornerRadRBImg

```
PRINT 'OPTION'("CornerRadBtn", "Round")
FIN(0, "CornerRadBtn")   ->   "Round"
```

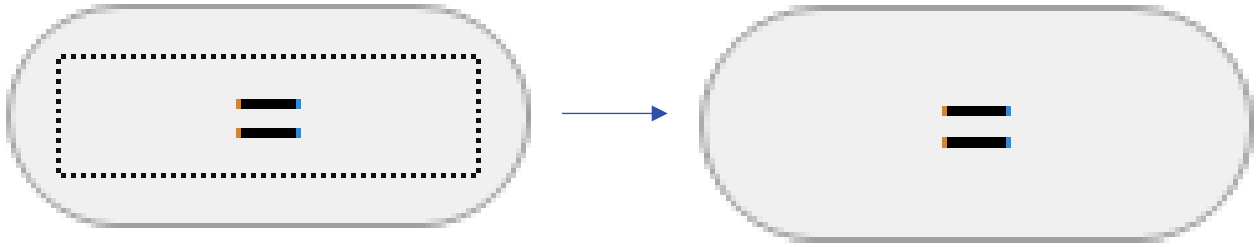


Focus Rect Option Mnemonics

Focus Rectangle

- FocusRectBtn
- FocusRectCB
- FocusRectDB
- FocusRectLB
- FocusRectRB

```
PRINT 'OPTION'("FocusRectBtn", 0)
FIN(0, "FocusRectBtn")   ->   0
```

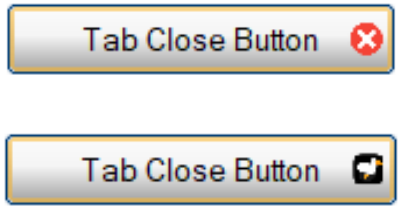


Tab Button Close Option Mnemonics

Tab Button Close

- TabBtnCloseIcon & TabBtnCloseHoverIcon
- Button, Check Box (bitmap), Radio Button (bitmap)
- OPT="x"

```
! Example
PRINT 'OPTION'("TabBtnCloseIcon","c:\sample\ico\x.ico")
PRINT 'OPTION'("TabBtnCloseHoverIcon","c:\sample\ico\goose.ico")
BUTTON 100,@(10,10,24,2)="Tab Close Button",opt="x"
```



Theme & Visual Classes

Property	Controls
Corner Radius	Button, Check Box*, Drop Box, List Box, Multi-Line, Radio Button*, Tri-State Check Box, Variable Drop Box
CB Corner Radius	Check Box, Tri-State Check Box
Focus Rectangle	Button, Check Box, Drop Box, List Box, Radio Button, Tri-State Check Box
Field Height	Drop Box, Variable Drop Box
Vertically Center Text	Multi-Line
Rounded Corner Radius	Rectangle Shape
Tab Corner Radius	Folder
Tab Focus Rectangle	Folder

*Bitmap

Data Class Definitions

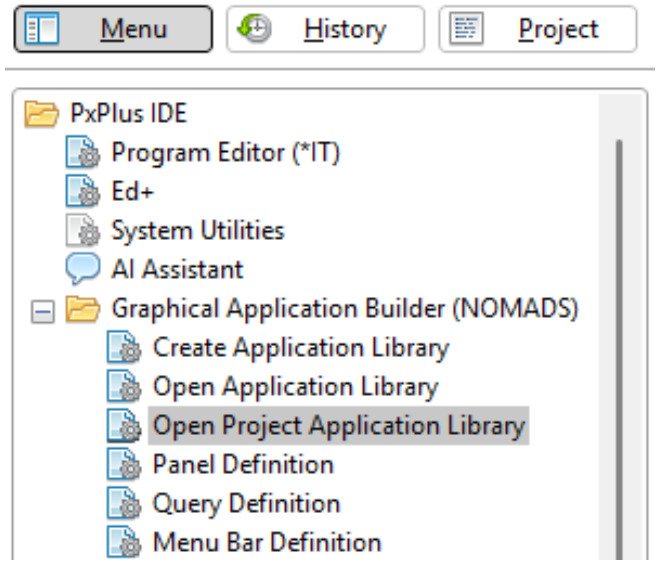
Property	Controls
Check Box Corner Radius	Check Box, Tri-State Check Box
Button Corner Radius	Check Box*, Tri-State Check Box*
Corner Radius	Drop Box, Variable Drop Box, List-Box, Multi-Line

*Bitmap

Light & Dark Theme Updates

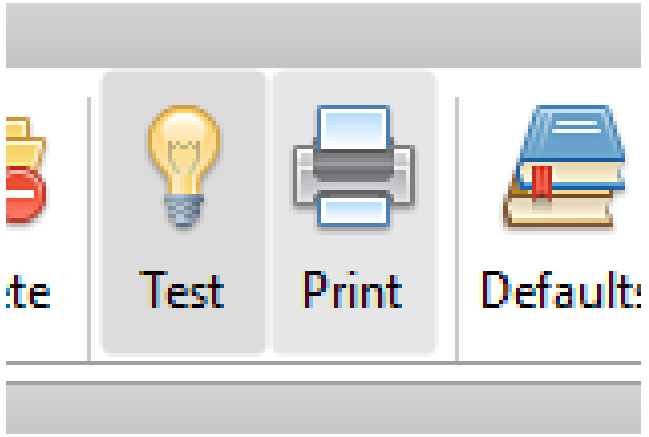
Rounded Corners

- All controls with a CornerRadius or CBCornerRadius property are now rounded



No Focus Rectangle

- All controls now suppress their Focus Rectangle, with the exceptions of check boxes, tri-state check boxes, and radio buttons



DEMOS (In-Depth Look)

Calculator

- Button theme
- Multi-line theme

Car Purchase Screen

- Purchase button theme
- Check box theme
- Drop box theme
- List box theme
- Rectangle shape theme

What the themes control

Corner radius	**Focus rectangle**	**Active & hover colours**	**Field height & text alignment**



Summary

PxPlus 2026 introduces new properties to modernize your UI, adding rounded corners to controls, the ability to suppress their focus rectangles, and more. You can quickly apply these properties across your application using the new Option Mnemonics, visual classes, themes, or data classes.

Thank you

Want to Learn More?

Rounded Corners How-Tos



Aaron Woodhouse