

**Gadget**

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# Chapter 1

## Gadget

### 1.1 Gadget V1.00

Pure Basic Gadget library V1.00

Gadgets in Pure Basic are based on the GadTools library and provide a very easy way to setup the layout. All the gadgets types are supported.

Commands summary:

```
AttachGadgetList
ActivateGadget
ButtonGadget
CheckBoxGadget
CreateGadgetList
CycleGadget
DisableGadget
GetStringText
FreeGadgetList
InitGadget
IntegerGadget
ListViewGadget
NumberGadget
NoGadgetBorder
OptionGadget
PaletteGadget
RefreshGadget
RefreshGadgetList
ScrollerGadget
SetGadgetAttrs
SetGadgetFlags
SetGadgetFont
SetStringText
SliderGadget
StringGadget
TextGadget
UseGadgetList
```

Examples:

---

Program 1  
Wild Manager

## 1.2 initgadget

### SYNTAX

```
result = InitGadget(#GadgetLists)
```

### COMMAND

Try to open the gadtools.library and initialize the gadget environments. You must put this command before using any of the gadget set.

## 1.3 buttongadget

### SYNTAX

```
ButtonGadget(#Gadget, x, y, Width, Heighth, Text$, TagList)
```

### COMMAND

Create a button gadget in the GadgetList. #Gadget will be the number returned by GadgetID() command. This command can return the Intuition gadget pointer for advanced programmers.

Available Tags:

#GA\_Disabled (BOOL) - Set to TRUE to disable gadget, FALSE otherwise (defaults to FALSE). (V36)  
#GA\_Immediate (BOOL) - Hear #IDCMP\_GADGETDOWN events from button gadget (defaults to FALSE). (V39)

## 1.4 checkboxgadget

### SYNTAX

```
CheckBoxGadget(#Gadget, x, y, Width, Heighth, Text$, TagList)
```

### COMMAND

Create a checkbox gadget in the GadgetList. #Gadget will be the number returned by EventGadgetID() command. This command can return the Intuition gadget pointer for advanced programmers.

Available Tags:

#GA\_Disabled (BOOL) - Set to TRUE to disable gadget, FALSE otherwise (defaults to FALSE).  
#GTCB\_Checked (BOOL) - Initial state of checkbox (defaults to FALSE) (V36)

---

#GTCB\_Scaled (BOOL) - If true, then checkbox imagery will be scaled to fit the gadget's width & height. Otherwise, a fixed size of CHECKBOXWIDTH by CHECKBOXHEIGHT will be used. (defaults to FALSE) (V39)

## 1.5 integergadget

### SYNTAX

IntegerGadget(#Gadget, x, y, Width, Height, Text\$, TagList)

### COMMAND

Creates an Integer gadget in the GadgetList. #Gadget will be the number returned by EventGadgetID() command. This command can return the Intuition gadget pointer for advanced programmers.

Available Tags:

#GA\_Disabled (BOOL) - Set to TRUE to disable gadget, FALSE otherwise (defaults to FALSE). (V36)

#GA\_Immediate (BOOL) - Hear #IDCMP\_GADGETDOWN events from integer gadget (defaults to FALSE). (V39)

#GA\_TabCycle (BOOL) - Set to TRUE so that pressing <TAB> or <Shift-TAB> will activate the next or previous such gadget. (defaults to TRUE, unlike regular Intuition string gadgets which default to FALSE). (V37)

#GTIN\_Number (LONG) - The initial contents of the integer gadget (defaults to 0). (V36)

#GTIN\_MaxChars (UWORD) - The maximum number of digits that the integer gadget is to hold (defaults to 10). (V36)

#GTIN\_EditHook (struct Hook \*) - Hook to use as a custom integer gadget edit hook (StringExtend->EditHook) for this gadget. GadTools will allocate the StringExtend->WorkBuffer for you. (defaults to NULL). (V37)

#STRINGA\_ExitHelp (BOOL) - Set to TRUE to have the help-key cause an exit from the integer gadget. You will then receive an #IDCMP\_GADGETUP event with Code = 0x5F (rawkey for help). (defaults to FALSE) (V37)

#STRINGA\_Justification - Controls the justification of the contents of an integer gadget. Choose one of STRINGLEFT, STRINGRIGHT, or STRINGCENTER (defaults to STRINGLEFT). (V37)

#STRINGA\_ReplaceMode (BOOL) - If TRUE, this integer gadget is in replace-mode (defaults to FALSE (insert-mode)). (V37)

## 1.6 listviewgadget

### SYNTAX

ListViewGadget(#Gadget, x, y, Width, Height, Text\$, TagList)

### COMMAND

Create a ListView gadget in the GadgetList. #Gadget will be the number returned by EventGadgetID() command. This command can return the

Intuition gadget pointer for advanced programmers.

Available Tags:

```
#GA_Disabled (BOOL) - Set to TRUE to disable gadget, FALSE otherwise
                      (defaults to FALSE). (V39)
#GTLV_Top (WORD) - Top item visible in the listview. This value
                will be made reasonable if out-of-range (defaults to 0). (V36)
#GTLV_MakeVisible (WORD) - Number of an item that should be forced
                          within the visible area of the listview by doing minimal scrolling.
                          This tag overrides #GTLV_Top. (V39)
#GTLV_Labels (struct List *) - List of nodes whose ln_Name fields
                              are to be displayed in the listview. (V36)
#GTLV_ReadOnly (BOOL) - If TRUE, then listview is read-only
                      (defaults to FALSE). (V36)
#GTLV_ScrollWidth (UWORD) - Width of scroll bar for listview.
                            Must be greater than zero (defaults to 16). (V36)
#GTLV_ShowSelected (struct Gadget *) - NULL to have the currently
                                       selected item displayed beneath the listview under V37 or with
                                       a highlight bar in V39. If not NULL, this is a pointer to
                                       an already-created GadTools #STRING_KIND gadget to have an
                                       editable display of the currently selected item. If the tag is
                                       not present, the currently selected item will not be displayed.
                                       (V36)
#GTLV_Selected (UWORD) - Ordinal number of currently selected
                      item, or ~0 to have no current selection (defaults to ~0). (V36)
#LAYOUTA_Spacing (UWORD) - Extra space to place between lines of
                          listview (defaults to 0). (V36)
#GTLV_ItemHeight (UWORD) - The exact height of an item. This is
                           normally useful for listviews that use the #GTLV_Callback
                           rendering hook (defaults to ng->ng_TextAttr->ta_YSize). (V39)
#GTLV_Callback (struct Hook *) - Callback hook for various listview
                               operations. As of V39, the only callback supported is for custom
                               rendering of individual items in the listview. The call back hook
                               is called with:
                               A0 - struct Hook *
                               A1 - struct LVDrawMsg *
                               A2 - struct Node *
                               The callback hook *must* check the lvdm_MethodID field of the
                               message and only do processing if it equals LV_DRAW. If any
                               other value is passed, the callback hook must return LVCB_UNKNOWN
#GTLV_MaxPen (UWORD) - The maximum pen number used by rendering
                      in a custom rendering callback hook. This is used to optimize
                      the rendering and scrolling of the listview display (default is
                      the maximum pen number used by all of TEXTPEN, BACKGROUNDPEN,
                      FILLPEN, TEXTFILLPEN, and BLOCKPEN. (V39)
```

## 1.7 numbergadget

SYNTAX

```
NumberGadget(#Gadget, x, y, Width, Height, Text$, TagList)
```

COMMAND

```
Create a Number gadget in the GadgetList. #Gadget will be the number
```

returned by `EventGadgetID()` command. This command can return the Intuition gadget pointer for advanced programmers.

Available Tags:

#GTNM\_Number (LONG) - A signed long integer to be displayed as a read-only number (defaults to 0). (V36)

#GTNM\_Border (BOOL) - If TRUE, this flag asks for a recessed border to be placed around the gadget. (V36)

#GTNM\_FrontPen (UBYTE) - The pen to use when rendering the number (defaults to `DrawInfo->dri_Pens[TEXTPEN]`). (V39)

#GTNM\_BackPen (UBYTE) - The pen to use when rendering the background of the number (defaults to leaving the background untouched). (V39)

#GTNM\_Justification (UBYTE) - Determines how the number is rendered within the gadget box. `GTJ_LEFT` will make the rendering be flush with the left side of the gadget, `GTJ_RIGHT` will make it flush with the right side, and `GTJ_CENTER` will center the number within the gadget box. Under V39, using this tag also required using `{#GTNM_Clippped, TRUE}`, otherwise the text would not show up in the gadget. This has been fixed in V40. (defaults to `GTJ_LEFT`). (V39)

#GTNM\_Format (STRPTR) - C-Style formatting string to apply on the number before display. Be sure to use the 'l' (long) modifier. This string is processed using `exec.library/RawDoFmt()`, so refer to that function for details. (defaults to `"%ld"`) (V39)

#GTNM\_MaxNumberLen (ULONG) - Maximum number of bytes that can be generated by applying the `#GTNM_Format` formatting string to the number (excluding the NULL terminator). (defaults to 10). (V39)

#GTNM\_Clippped (BOOL) - Determine whether text should be clipped to the gadget dimensions (defaults to FALSE for gadgets without borders, TRUE for gadgets with borders). (V39)

## 1.8 cyclegadget

SYNTAX

`CycleGadget(#Gadget, x, y, Width, Height, Text$, TagList)`

COMMAND

Create a Cycle gadget in the `GadgetList`. `#Gadget` will be the number returned by `EventGadgetID()` command. This command can return the Intuition gadget pointer for advanced programmers.

Available Tags:

#GA\_Disabled (BOOL) - Set to TRUE to disable gadget, FALSE otherwise (defaults to FALSE). (V37)

#GTCY\_Labels (STRPTR \*) - Pointer to NULL-terminated array of strings that are the choices offered by the cycle gadget. This tag is required. (V36)

#GTCY\_Active (UWORD) - The ordinal number (counting from zero) of the initially active choice of a cycle gadget (defaults to zero).

(V36)

## 1.9 optiongadget

### SYNTAX

OptionGadget(#Gadget, x, y, Width, Height, Text\$, TagList)

### COMMAND

Creates an exclusive option gadget in the GadgetList. #Gadget will be the number returned by EventGadgetID() command. This command can return the Intuition gadget pointer for advanced programmers.

Available Tags:

#GA\_Disabled (BOOL) - Set to TRUE to disable gadget, FALSE otherwise (defaults to FALSE). (V39)

#GTMX\_Labels (STRPTR \*) - Pointer to a NULL-terminated array of strings which are to be the labels beside each choice in a set of mutually exclusive gadgets. This tag is required. (V36)

#GTMX\_Active (UWORD) - The ordinal number (counting from zero) of the initially active choice of an mx gadget (defaults to 0). (V36)

#GTMX\_Spacing (UWORD) - The amount of space between each choice of a set of mutually exclusive gadgets. This amount is added to the font height to produce the vertical shift between choices (defaults to 1). (V36)

#GTMX\_Scaled (BOOL) - If true, then mx gadget imagery will be scaled to fit the gadget's width & height. Otherwise, a fixed size of MXWIDTH by MXHEIGHT will be used. When setting this tag to TRUE, you should typically set the height of the gadget to be (ng.ng\_TextAttr->ta\_YSize + 1). (defaults to FALSE.) (V39)

#GTMX\_TitlePlace - One of PLACETEXT\_LEFT, PLACETEXT\_RIGHT, PLACETEXT\_ABOVE, or PLACETEXT\_BELOW, indicating where the title of the gadget is to be displayed. Without this tag, the NewGadget.ng\_GadgetText field is ignored for MX\_KIND gadgets. (V39)

## 1.10 palettegadget

### SYNTAX

PaletteGadget(#Gadget, x, y, Width, Height, Text\$, TagList)

### COMMAND

Creates a Palette gadget in the GadgetList. #Gadget will be the number returned by EventGadgetID() command. This command can return the Intuition gadget pointer for advanced programmers.

Available Tags:

#GA\_Disabled (BOOL) - Set to TRUE to disable gadget, FALSE otherwise (defaults to FALSE). (V36)

---

#GTPA\_Depth (UWORD) - Number of bitplanes in the palette (defaults to 1). (V36)

#GTPA\_Color (UBYTE) - Initially selected color of the palette. This number is a pen number, and not the ordinal colour number within the palette gadget itself. (defaults to 1). (V36)

#GTPA\_ColorOffset (UBYTE) - First colour to use in palette (defaults to 0). (V36)

#GTPA\_IndicatorWidth (UWORD) - The desired width of the current-colour indicator, if you want one to the left of the palette. (V36)

#GTPA\_IndicatorHeight (UWORD) - The desired height of the current-color indicator, if you want one above the palette. (V36)

#GTPA\_ColorTable (UBYTE \*) - Pointer to a table of pen numbers indicating which colors should be used and edited by the palette gadget. This array must contain as many entries as there are colors displayed in the palette gadget. The array provided with this tag must remain valid for the life of the gadget or until a new table is provided. (default is NULL, which causes a 1-to-1 mapping of pen numbers). (V39)

#GTPA\_NumColors (UWORD) - Number of colors to display in the palette gadget. This override #GTPA\_Depth and allows numbers which aren't powers of 2. (defaults to 2) (V39)

## 1.11 scrollergadget

### SYNTAX

ScrollerGadget(#Gadget, x, y, Width, Height, Text\$, TagList)

### COMMAND

Creates a Scroller gadget in the GadgetList. #Gadget will be the number returned by EventGadgetID() command. This command can return the Intuition gadget pointer for advanced programmers.

### Available Tags:

#GA\_Disabled (BOOL) - Set to TRUE to disable gadget, FALSE otherwise (defaults to FALSE). (V36)

#GA\_RelVerify (BOOL) - Hear every #IDCMP\_GADGETUP event from scroller (defaults to FALSE). (V36)

#GA\_Immediate (BOOL) - Hear every #IDCMP\_GADGETDOWN event from scroller (defaults to FALSE). (V36)

#GTSC\_Top (WORD) - Top visible in area scroller represents (defaults to 0). (V36)

#GTSC\_Total (WORD) - Total in area scroller represents (defaults to 0). (V36)

#GTSC\_Visible (WORD) - Number visible in scroller (defaults to 2). (V36)

#GTSC\_Arrows (UWORD) - Asks for arrows to be attached to the scroller. The value supplied will be taken as the width of each arrow button for a horizontal scroller, or the height of each button for a vertical scroller (the other dimension will match the whole scroller). (V36)

#PGA\_Freedom - Whether scroller is horizontal or vertical. Choose LORIENT\_VERT or LORIENT\_HORIZ (defaults to LORIENT\_HORIZ). (V36)

## 1.12 slidergadget

### SYNTAX

SliderGadget(#Gadget, x, y, Width, Height, Text\$, TagList)

### COMMAND

Creates a Slider gadget in the GadgetList. #Gadget will be the number returned by EventGadgetID() command. This command can return the Intuition gadget pointer for advanced programmers.

Available Tags:

#GA\_Disabled (BOOL) - Set to TRUE to disable gadget, FALSE otherwise (defaults to FALSE). (V36)

#GA\_RelVerify (BOOL) - If you want to hear each slider #IDCMP\_GADGETUP event (defaults to FALSE). (V36)

#GA\_Immediate (BOOL) - If you want to hear each slider #IDCMP\_GADGETDOWN event (defaults to FALSE). (V36)

#GTSL\_Min (WORD) - Minimum level for slider (defaults to 0). (V36)

#GTSL\_Max (WORD) - Maximum level for slider (defaults to 15). (V36)

#GTSL\_Level (WORD) - Current level of slider (defaults to 0). (V36)

#GTSL\_MaxLevelLen (UWORD) - Maximum length in characters of level string when rendered beside slider (defaults to 2). (V36)

#GTSL\_LevelFormat (STRPTR) - C-Style formatting string for slider level. Be sure to use the 'l' (long) modifier. This string is processed using exec.library/RawDoFmt(), so refer to that function for details. (defaults to "%ld"). (V36)

#GTSL\_LevelPlace - One of PLACETEXT\_LEFT, PLACETEXT\_RIGHT, PLACETEXT\_ABOVE, or PLACETEXT\_BELOW, indicating where the level indicator is to go relative to slider (default to PLACETEXT\_LEFT). (V36)

#GTSL\_DispFunc ( LONG (\*function)(struct Gadget \*, WORD) ) - Function to calculate level to be displayed. A number-of-colors slider might want to set the slider up to think depth, and have a (1 << n) function here. Defaults to none. Your function must take a pointer to gadget as the first parameter, the level (a WORD) as the second, and return the result as a LONG. (V36)

#GTSL\_MaxPixelLen (ULONG) - Indicates the maximum pixel size used up by the level display for any value of the slider. This is mostly useful when dealing with proportional fonts. (defaults to FontWidth\*MaxLevelLen). (V39)

#GTSL\_Justification (UBYTE) - Determines how the level display is to be justified within its allotted space. Choose one of GTJ\_LEFT, GTJ\_RIGHT, or GTJ\_CENTER (defaults to GTJ\_LEFT). (V39)

#PGA\_Freedom - Set to LORIENT\_VERT or LORIENT\_HORIZ to have a vertical or horizontal slider (defaults to LORIENT\_HORIZ). (V36)

## 1.13 stringgadget

### SYNTAX

StringGadget(#Gadget, x, y, Width, Height, Text\$, TagList)

---

**COMMAND**

Creates a String gadget in the GadgetList. #Gadget will be the number returned by EventGadgetID() command. This command can return the Intuition gadget pointer for advanced programmers.

**Available Tags:**

- #GA\_Disabled (BOOL) - Set to TRUE to disable gadget, FALSE otherwise (defaults to FALSE). (V36)
- #GA\_Immediate (BOOL) - Hear #IDCMP\_GADGETDOWN events from string gadget (defaults to FALSE). (V39)
- #GA\_TabCycle (BOOL) - Set to TRUE so that pressing <TAB> or <Shift-TAB> will activate the next or previous such gadget. (defaults to TRUE, unlike regular Intuition string gadgets which default to FALSE). (V37)
- #GTST\_String (STRPTR) - The initial contents of the string gadget, or NULL (default) if string is to start empty. (V36)
- #GTST\_MaxChars (UWORD) - The maximum number of characters that the string gadget is to hold. (V36)
- #GTST\_EditHook (struct Hook \*) - Hook to use as a custom string gadget edit hook (StringExtend->EditHook) for this gadget. GadTools will allocate the StringExtend->WorkBuffer for you. (defaults to NULL). (V37)
- #STRINGA\_ExitHelp (BOOL) - Set to TRUE to have the help-key cause an exit from the string gadget. You will then receive an #IDCMP\_GADGETUP event with Code = 0x5F (rawkey for help). (V37)
- #STRINGA\_Justification - Controls the justification of the contents of a string gadget. Choose one of #STRINGLEFT, #STRINGRIGHT, or #STRINGCENTER (defaults to #STRINGLEFT). (V37)
- #STRINGA\_ReplaceMode (BOOL) - If TRUE, this string gadget is in replace-mode (defaults to FALSE (insert-mode)). (V37)

**1.14 textgadget****SYNTAX**

TextGadget(#Gadget, x, y, Width, Height, Text\$, TagList)

**COMMAND**

Creates a Text gadget in the GadgetList. #Gadget will be the number returned by EventGadgetID() command. This command can return the Intuition gadget pointer for advanced programmers.

**Available Tags:**

- #GTTX\_Text - Pointer to a NULL terminated string to be displayed, as a read-only text-display gadget, or NULL. (defaults to NULL) (V36)
- #GTTX\_CopyText (BOOL) - This flag instructs the text-display gadget to copy the supplied text string, instead of using only pointer to the string. This only works for the initial value of GTTX\_Text set at CreateGadget() time. If you subsequently change GTTX\_Text, the new text will be referenced by pointer,

not copied. Do not use this tag with a NULL `GTTX_Text`. (V37)

`#GTTX_Border` (BOOL) - If TRUE, this flag asks for a recessed border to be placed around the gadget. (V36)

`#GTTX_FrontPen` (UBYTE) - The pen to use when rendering the text (defaults to `DrawInfo->dri_Pens[TEXTPEN]`). (V39)

`#GTTX_BackPen` (UBYTE) - The pen to use when rendering the background of the text (defaults to leaving the background untouched). (V39)

`#GTTX_Justification` (UBYTE) - Determines how the text is rendered within the gadget box. `GTJ_LEFT` will make the rendering be flush with the left side of the gadget, `GTJ_RIGHT` will make it flush with the right side, and `GTJ_CENTER` will center the text within the gadget box. Under V39, using this tag also required using `{GTNM_Clippped, TRUE}`, otherwise the text would not show up in the gadget. This has been fixed in V40. (defaults to `GTJ_LEFT`). (V39)

`#GTTX_Clippped` (BOOL) - Determine whether text should be clipped to the gadget dimensions (defaults to FALSE for gadgets without borders, TRUE for gadgets with borders). (V39)

## 1.15 setgadgetfont

SYNTAX

```
SetGadgetFont(&TextAttr)
```

STATEMENT

Sets the font which will be used by newly created gadgets. It must be a `TextAttr` structure, so be careful when using it...

## 1.16 setgadgetflags

SYNTAX

```
SetGadgetFlags(&Text$)
```

STATEMENT

Set the flags that will be used for newly-created gadgets.

## 1.17 usegadgetlist

SYNTAX

```
UseGadgetList(#GadgetList)
```

STATEMENT

Make the specified `Gadgetlist` the currently-used `Gadgetlist`.

## 1.18 creategadgetlist

---

## SYNTAX

```
result.l = CreateGadgetList(#GadgetList, ScreenID)
```

## FUNCTION

Try to allocate the resource for a future gadgetlist. The ScreenID is needed, so be sure to pass it !

## 1.19 attachgadgetlist

## SYNTAX

```
AttachGadgetList(#GadgetList, WindowID)
```

## STATEMENT

Attach the specified gadgetlist to an open window specified by the WindowID. Gadgets are automatically refreshed.

## 1.20 disablegadget

## SYNTAX

```
DisableGadget(#Gadget, State)
```

## STATEMENT

Disable or enable a gadget. If State = 1, gadget will be disable, if State = 0 will be enabled.

NOTE: You must use the NRefreshGadget to reflect the changes on the display.

## 1.21 activategadget

## SYNTAX

```
ActivateGadget(#Gadget)
```

## STATEMENT

Cause the specified gadget to be activated. Useful for StringGadget.

## 1.22 refreshgadget

## SYNTAX

```
RefreshGadget(#Gadget)
```

## STATEMENT

The specified gadget display will be refreshed.

---

## 1.23 refreshgadgetlist

### SYNTAX

```
RefreshGadgetList ()
```

### STATEMENT

Refresh the current gadgetlist: all the gadgets will be redrawn in the window to which they are attached.

## 1.24 nogadgetborder

### SYNTAX

```
NoGadgetBorder (#Gadget)
```

### STATEMENT

Must be put after a gadget declaration and will remove the border around the specified gadget

```
ie: ButtonGadget 1, 10,10,100,100,"Hello",0  
    NNoGadgetBorder 1
```

## 1.25 freegadgetlist

### SYNTAX

```
FreeGadgetList (#GadgetList)
```

### STATEMENT

Free the memory taken by the specified gadgetlist. Be sure that this gadget list is not referenced again by any windows, or you will have a crash ! Call it typically after a window close.

## 1.26 setstringtext

### SYNTAX

```
SetStringText (#Gadget, Text$)
```

### STATEMENT

Change the text content of a string gadget.

## 1.27 getstringtext

### SYNTAX

```
Text$ = GetStringText (#Gadget)
```

### STATEMENT

Return the text content of a string gadget.

---

## 1.28 setgadgetattrs

### SYNTAX

```
SetGadgetAttrs(#Gadget, #TAG_ITEM, #TAG_DATA)
```

### STATEMENT

Change the attributes of the given gadget.

---