

changes

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REVISION HISTORY

| NUMBER | DATE | DESCRIPTION | NAME |
|--------|------|-------------|------|
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Chapter 1

changes

1.1 changes.guide

BGUI release 1.2 - Development history.

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1.2 changes.guide/V37.11

V37.11

- * Started written history...
- * Added the PROGRESS_Divisor tag for those extremely large values.
- * BUG FIX: The progress class object could fill the gauge 1 pixel to far in some cases. Added some extra code to prevent this from happening.
- * Added the external class. This class makes it easy to include third party classes like the colorwheel.gadget in a BGUI user interface. Still have major problems handling notification though...
- * Added the WM_ADDUPDATE method to the window class. This method makes it possible to connect an external class object to another object to perform simple icclass style notification.

1.3 changes.guide/V37.12

V37.12

- * BUG FIX: The layout engine sometimes layouted an object one or two pixels to small. Added some extra code to prevent this from happening.
- * Added the LGO_Align attribute to enhance the layout procedure.
- * BUG FIX: The stringclass screwed up in computing it's minimum size when it did not have a frame attached to it.
- * BUG FIX: The layout engine sometimes GURU'd. Ooops. Should be fixed now.
- * BUG FIX: The LISTV_RenderHook did not setup the entry correctly in the lvRender structure.
- * Added the LVM_REMENTRY method which can be used to remove single entries from a listview.
- * Added the LVM_REFRESH method to refresh the listview object after adding/removing some entries.
- * BUG FIX: The infoclass computed the maximum width of the formatted text one pixel to small.

1.4 changes.guide/V37.13

V37.13

- * BUG FIX: The window class did not succeed in opening a screen size window when the screen was smaller than it's default size.
- * BUG FIX: The listview class did not refresh the list correctly when a single entry was added.
- * BUG FIX: Fixed the AddEntryVisible macro in bgui_macros.h.
- * BUG FIX: Fixed a couple of bugs in the string class. Bugs found by Paul weterings.
- * BUG FIX: The Toggle() and KeyToggle() macros from bgui_macros.h did not make it possible to set a toggle button selected by default. Note that these macros require an additional parameter now. Bug found by Paul Weterings.

1.5 changes.guide/V37.14

V37.14

- * BUG FIX: The online-help system of the gadget objects did not work at all.
- * BUG FIX: The drop-box frame used incorrect spacing when the FRF_THIN_FRAME flag was set. The radio-button frame totally ignored the FRF_THIN_FRAME flag. Bugs found by Paul Weterings.
- * Added the LISTV_TitleHook attribute to the listview class. This hook makes it possible to render a title entry in the listview object. Can come in handy with multi-column listviews.
- * Re-arranged and adjusted the source for DICE V3.0 commercial. Boy oh boy it really is picky about correct prototyping now...
- * The list class now uses the memory pool routines from the 3.1 amiga.lib. This means working memory pools even on 2.04.
- * BUG FIX: The group class did not always yield the correct results when requesting the minimum size of another group. This resulted in a wrong-sized mx object when it had a label attached to it.

1.6 changes.guide/V37.15

V37.15

- * Added task-relative information tracking. This means that from now on the library is a SINGLE-TASK-LIBRARY. If your code spawns a sub-task that requires the use of BGUI then this sub-task must open the library itself. It may not share the base pointer with the main-task.
- * Added the WINDOW_UniqueID attribute to give a window a unique ID of your choice. This ID is used by the task-relative information tracking to store the window size/position even when you dispose of the object and re-generate it.
- * Added the LVM_SORT method for re-sorting the entries in a listview object. Also added the SortList() macro in bgui_macros.h for this purpose.
- * Made the flag bits of the frameclass and labelclass also available as boolean tags. This allows for easier switching of single flags.
- * BUG FIX: The lvma_Entry field of the lvmAddSingle structure was defined as (APTR *) while it should be (APTR).

1.7 changes.guide/V37.16

V37.16

- * You can now reset the knob of a sliderclass or propclass object to it's initial setting by pressing the right mouse button before releasing the left-button.
- * Added the WINDOW_Window attribute to enable you to obtain a pointer to the window structure of a windowclass object.
- * Started keeping up with the source code revisions using the Revision Control System (RCS) supplied with DICE 3.0.

1.8 changes.guide/V37.17

V37.17

- * BUG FIX: The buttonclass now takes the design size of a vectorclass image into consideration when computing it's minimum size. Bug found by Wouter van Oortmersen.
- * BUG FIX: Fixed the rendering bug of objects on invisible pages. Bug found by Paul Weterings.
- * BUG_FIX: Fixed the enforcer hits of Infoclass objects in a Pageclass object. Bug found by Paul Weterings.
- * Added a XEN style button frame to the frame class. Also added some new macros to the bgui_macros header specially for this purpose.
- * Added XEN macros in the bgui_macros.h file for the checkbox and cycle objects.
- * Added the GROUP_BackFill attribute to supply a group backfill possibility without a group frame.
- * Added the BREQF_XEN_BUTTONS flag to supply the requester buttons with a XEN style frame.

1.9 changes.guide/V37.18

V37.18

- * BUG FIX: The infoclass sometimes screwed up with text-styles. I'm not sure if this was a bug in the infoclass itself but I have coded a work-around to the problem.
 - * Optimized setting pens and drawmode in a rastport. Now the code checks the pens and drawmode to see if it needs to change. Should speed up the rendering somewhat.
-

- * **BUG FIX:** When flushing the library from memory while one or more of the classes failed to free could result in a GURU. This should not happen anymore.
- * Added the separator class which adds the possibility to separate groups with a single 3D line with or without a title. Also added a couple of macros to `bgui_macros.h` for this purpose.

1.10 changes.guide/V37.19

V37.19

- * **BUG FIX:** The stringclass by default used the wrong pens to render it's contents. Now the correct pens are used by default keeping track of user set pens.
 - * Added some simple macros for NewMenu definitions in the `bgui_macros.h` header.
 - * **BUG FIX:** Drag-selecting menus would result in replying a non-existent `IntuiMsg` (enforcer hits... GURUs... ouch!)
 - * **BUG FIX:** Fixed a bug that caused rendering object labels in the wrong color when the object was selected and the label was located outside the object hit area.
 - * **BUG FIX:** The `HorizSlider()` macro was broken.
 - * **BUG_FIX:** Some classes screwed up computing their minimum size when the label was located above or below the object. This should not happen anymore.
 - * Extended the Listview class rendering hook result code. When the hook returns non-NULL the class will see this as a string and render it. A result code of NULL is ignored. Please read the `LISTV_DisplayHook` section of the `listviewclass.doc` file for more information on this subject.
 - * Added hook-notification to the baseclass. Please refer to the `baseclass.doc` file for more information on this subject.
 - * **BUG FIX:** Fixed a small bug in the tab-cycling code of the string class. The bug caused non-tabcycling gadgets to notify the event-handler when it was de-activated.
 - * **BUG FIX:** The `AddEntrySelect()` macro was broken.
 - * Added the `LVM_LOCKLIST` and `LVM_UNLOCKLIST` methods to the listview class. These methods should have been in there from the beginning to prevent strange results when somebody is fiddling with the listview while you are changing one of it's entries.
 - * **BUG FIX:** While converting a text-editor I'm writing to BGUI I came
-

across a buch of small bugs bugs in BGUI. These (I shall not list them) should be fixed now.

- * **BUG FIX:** When using a shared window port for the BGUI windows it would happen that the event handler did not get the initial IDCMP_ACTIVEWINDOW message because the port is added to the window after it is opened. Now the code will manually activate the window when the WA_Active tag is TRUE after the port has been added.

1.11 changes.guide/V37.20

V37.20

- * Changed the behaviour of the WINDOW_UniqueID tag when the WINDOW_PosRelBox tag is also used. Please refer to the WINDOW_UniqueID section of the windowclass.doc file for more information.
 - * Added some extra code to ensure that the window sizing-gadget size is computed correctly. This will ensure the correct operation with patches like SysIHack. One note about SysIHack... When using the PGA_NewLook feature SysIHack renders the proportional gadget left&and up from the intended location and to big and it ignores the PGA_Borderless tag. I would report this to the author of SysIHack if only I knew who Mr. BOOPSI was :)
 - * **BUG FIX:** The progress class now checks frame thickness before filling the indicator.
 - * **BUG FIX:** Fixed the PACKPENS() macro in bgui_macros.h. Docs clearly state "packed as two WORDs into a longword" but as it seems it should be two bytes in a word? Am I wrong???
 - * **BUG FIX:** After testing BGUI on another public screen with a BACKGROUNDPEN different from 0 it came to my attention that BGUI had some problems with this. Now all rendering should occure OK with a different BACKGROUNDPEN than 0. I have fixed the labelclass and vectorclass and added a backfill-hook (WA_BackFill) to the windowclass to fix these problems.
 - * Added a pop-up menu option to the cycle class. Also added a couple of new macros to bgui_macros.h to support this new option. Suggested by Jim Cooper.
 - * The infoclass does not clip the text anymore when it won't fit. Now it simply renders as much text as will fit in the area.
 - * Removed the text class completely. It was not a necessary class since the infoclass can do the most important things that the text class could do. The info class even does a better job at it. This also means that I finally got rid of all rastport-clipping.
 - * The complete GUI is rendered in a buffer bitmap so that it can be made visible in a single blit. This looks much smoother than rendering visible on-screen. If a buffer cannot be allocated the rendering occures
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on-screen.

- * **BUG FIX:** It was possible to size an empty group to 0x0 which lead to potentially dangerous situations. I have made all RectFill() that are performed safe which means that the rectangle specified is checked for wierd values.

1.12 changes.guide/V37.21

V37.21

- * Changed the imagery of the cycle gadget when it is in Popup mode. It is not the best of imagery but it works. If anybody has a better idea let me know.
 - * **BUG FIX:** A window with an ID and positioned relative to a rectangle would be placed wrong if the window was to big for the used font. This does not happen anymore but windows which grow to big for the used font and have to use the fall-back font will not remember it's size.
 - * **BUG FIX:** Fixed a big-fat-stupid-lame-bug in the external class. I failed to aply rule number one when writing a BOOPSI dispatcher by not using the __geta4 (__saveds) qualifier. Bug found by Paul Weterings.
 - * **BUG FIX:** Using a frame and/or a label on the master-group caused the rendering of this frame and/or label to be overwritten. Bug found by Paul Weterings.
 - * Changed Xen frame rendering so that you get "rounded" corners. Looks much better.
 - * Made the LISTV_Top attribute gettable as it should have been al along.
 - * **BUG FIX:** Some IDCMP bits where not accessable with an IDCMP hook. Should be fixed now.
 - * Added the EXT_NoRebuild attribute to handle external gadgetclasses which are smart enough to handle a resize themselves. Suggested by Paul Weterings.
 - * **BUG FIX:** The stringclass rendered through the active page when it's contents was changed. This also happened when the gadget was not located on the active page. Bug found by Paul Weterings.
 - * Added a method to the groupclass to insert members at any place into an already existing group. Suggested by Paul Weterings.
 - * The cycleclass notification (in popup mode) is now delayed until the menu window is closed. Suggested by Paul Weterings.
 - * The pageclass now also renders the current page in a buffer before it is shown. Note that this is only true when the page to show is a group. Suggested by Paul Weterings.
-

1.13 changes.guide/V37.22

V37.22

- * BUG FIX: LISTV_MakeVisible and LISTV_Select did not make the item visible. Bug found by Paul Weterings.
- * Added a couple of macros to create non-fixed size checkbox objects. Suggested by Paul Weterings.
- * Made the WINDOW_Screen and WINDOW_PubScreenName settable when the window is closed. Suggested by Paul Weterings.
- * BUG FIX: The Popup menu of a Popup-Cycle object would not open on the correct screen when the window in which it resided was not located on the default public screen. Bug found by Paul Weterings.
- * BUG FIX: Erasing the title area of a separatorclass object did not yield the desired result when the area-pattern of the rastport was not cleared.
- * BUG FIX: After running tests with memoration it came to my attention that the re-size operations where not working properly if the buffer rastport could not be allocated.

1.14 changes.guide/V37.23

V37.23

- * Enhanced listview class scrolling a bit. The old routines had a lot of overhead because they simple re-rendered the complete list even if the top only changed one or two places.
 - * Switching pages in a pageclass object looks smoother now.
 - * Most small allocations are now made in memory pools instead of allocating them directly from the system memory pool.
 - * Changed the operation of the WINDOW_SigMask, WINDOW_AppMask and COMM_SigMask attributes. Instead of OR'ing the mask value to the storage field the mask value is set now.
 - * Added the WINDOW_Bounds attribute which can be used to open a window at the place and width the size that you want. Suggested by Paul Weterings.
 - * Initial Public Beta Release... (30.09.94)
-

1.15 changes.guide/V37.24

V37.24

- * Added the BT_HelpText and WINDOW_HelpText attributes to pop a requester with a help text instead of having to use AmigaGuide® for small help. This also results in a new BGUI catalog (version 2).
- * BUG FIX: BGUI did not recognize language changes. Now each time BGUI needs to access localized strings the catalog is refreshed before actually accessing the strings. This results in the strings always being in the preferred language.
- * Added the GROUP_EqualWidth and GROUP_EqualHeight attributes to make the members of a group all have the same minimum width and or height.
- * Made the WINDOW_Bounds attribute settable with OM_SET. You can set it when the window is closed or opened. Suggested by Paul Weterings.
- * Initial Public Release (09.10.94)

1.16 changes.guide/V37.25

V37.25

- * BUG FIX: Most of the macros in the Amiga E support that called upon BGUI_DoGadgetMethodA() were broken. Major screwup from my side. Sorry...
 - * Made the GA_Disabled tag settable with OM_SET/OM_UPDATE on groupclass objects. When set on a groupclass object all members in the group will be disabled/enabled. Suggested by Paul Weterings.
 - * BUG FIX: The mxclass can now be controlled by the keyboard. Keyboard control of this class is style guide compliant.
 - * BUG FIX: Sometimes the key message handler of the windowclass could leave a message pending which could result in repeated keys not functioning anymore. Should be fixed now.
 - * BUG FIX: Manually setting LISTV_Top with OM_SET or OM_UPDATE did not move the scroller along with the list.
 - * Increased the minimum height of a listview class object.
 - * The initial public release lacked the presence of the clib/bgui_protos.h file. Sorry about that.
 - * BUG FIX: The MsgInfo in bgui_macros.[p]ma of the Amiga E support was broken.
 - * BUG FIX: For some strange reason the OS 2.04 propgclass seems to fiddle
-

with the font in the RastPort. This caused the adding of entries in a listview object to give strange results when the system font and screen font differed. Should be fixed now. Bug found by Michael Barsoom.

- * Added the PAGE_NoBufferRP and WINDOW_NoBufferRP attributes. This will allow you to have rendering happen on-screen.
- * Release 1.0a. Public bug-fix update #1.

1.17 changes.guide/V38.1

V38.1

- * Enhanced adding a single entry visibly to a listview object. This used to cause a complete list refresh with every added item. Now only the added entry and the prop are refreshed.
 - * Separators are rendered slightly different now. Suggested by Magnus Holmgren.
 - * Added the LISTV_LastClickedNum attribute which can be used to query the ordinal number of the last selected entry of a listview object.
 - * Added the WM_REPORT_ID method to the windowclass. This method can be used to set return codes from a IDCMP-hook or Verify-hook. The ID's are stacked internally and the next time the windowclass IDCMP handler is called returned to the application one by one.
 - * Made the VIT_VectorArray and VIT_BuiltIn attributes settable on a buttonclass object. Suggested by Paul Weterings.
 - * BUG FIX: Setting both the GA_Disabled and CYC_Active tag on a cycle class object would not change the label visibly.
 - * Added the LGO_NoAlign layout attribute to the groupclass which forces the layout engine not to align the object it's hitbox with the others. Suggested by Florian Vorberger.
 - * Now NULL may be passed with the STRINGA_TextVal attribute to the stringclass. Normally the system stringclass does not allow this.
 - * Added the some magic numbers to the LISTV_Select attribute. Suggested by Michael Barsoom.
 - * The alignment of the hitboxes in a vertical group sometimes made the total width of the group to large. Should not happen anymore. Bug found by Florian Vorberger.
 - * Added the LVM_MOVE method and LISTV_NewPosition attribute for moving entries in a listview object.
 - * Added the LISTV_NumEntries attribute for getting the number of entries in a listview object.
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- * Added the LISTV_Select_Page_Up and LISTV_Select_Page_Down magic numbers.
- * Enhanced the indicatorclass minimum size calculations. The old routine was 100% precise but took ages to complete with a large difference between min & max. It now "guesses" the correct minimum size but is much faster. Reported by several people.
- * Added keyboard shortcuts for BGUI_RequestA().
- * Added the BUTTON_Image and BUTTON_Selected image tags to the buttonclass which may be used to add Intuition or BOOPSI imagery to a button object.
- * Optimized some stuff internally which saved a couple of bytes of the library. Still under the 100000 bytes ;)
- * Added the WINDOW_AutoAspect attribute and BREQF_AUTO_ASPECT flag to let the windowclass decide whether the objects use thick or thin framing. Suggested by Paul Weterings. Passed the 100000 bytes :(
- * From now on infoclass command sequences are valid for listviewclass text entries. Also returned strings from a LISTV_DisplayHook may contain infoclass command sequences.
- * The format string specified with the INFO_TextFormat and INDIC_FormatString attributes may now contain locale.library FormatString() formatting (%) codes. Please note that locale specific formatting codes will only work when the locale.library is available.
- * Added a screen field to the bguiRequest structure.
- * Added a Tabber mode for the mxclass. This mode will give you a Tabs-like object which can be used to select pages from a pageclass object.
- * Release 1.1. Second Public Release.

1.18 changes.guide/V38.2

V38.2

- * Shifted numerical gadget keys did not work. Should be fixed now. Bug found by Florian Vorberger.
 - * Added the LISTV_MinEntriesShown attribute which can be used to determine the number of entries that should be visible at all times. Suggested by Stan Burton.
 - * BUG FIX: Setting the CYC_Active attribute on a cycleclass object when it was not in a window would erase the old label but not set the new one. Bug found by Florian Vorberger.
 - * BUG FIX: AmigaGuide help did not open on the correct screen if the window was not located on the default public screen. Bug found by Zachary A.
-

Forsyth.

- * BUG FIX: Controlling a Mx object in tabs mode would not cycle through when it reached the end or the beginning like it was supposed to. Also key-activation of an mx object did not generate an event. Bugs found by Johan Eliasson.
- * BUG FIX: Fixed a rendering bug in the stringclass and one in the cycle class.
- * BUG FIX: Sometimes a string object could be resized to small. Bug found by Stan Burton.
- * BUG FIX: Changing the text or arguments of a frameless infoclass object would result in overwriting the old text instead of replacing it. Bug found by several people.
- * BUG FIX: Again some macros from the E support where broken. Jeezz, maybe I should have tested them all.
- * Released as bug-fix patch on the mailinglist.

1.19 changes.guide/V38.3

V38.3

- * Changed the Amiga E support to require at least version 3.1a of the Amiga E compiler.
 - * BUG FIX: Tab-cycling should work through pages now. Simply add all string objects with WM_TABCYCLE_ORDER and you're done. Reported by Patrick (poseidon@newswire.gun.d).
 - * BUG FIX: The groupclass could compute the minimum size incorrect. Should be fixed now. Reported by Florian Vorberger.
 - * BUG FIX: The internal memory allocator screwed up by releasing 4 bytes short of the original allocator. Also the initializing the localization gave mungwall hits. Bugs found by Magne Oestlyngen.
 - * BUG FIX: The listview class became as slow as a C= 64 diskdrive when scrolling it at the end of a large amount of entries. This should not happen anymore. Bug found by Johan Eliasson.
 - * Enhanced adding single entries to a listview. Adding with LVAP_TAIL or LVAP_HEAD should be considerably faster now.
 - * BUG FIX: The last enhancement could cause problems when adding the first item. Fixed.
 - * BUG FIX: The layout engine did not read all tags when there where tags specified after adding the members.
-

- * Added the PAGE_Inverted and GROUP_Inverted tags. These tags are implemented to serve the assembly macro package.
- * Totally re-written the assembly header bgui_macros.i. Now it works. Added a small demonstration in the Demo drawer which shows the usage of the bgui.library in assembler. Paul Hamer put me up to this.
- * BUG FIX: Disabling and enabling a checkbox object ar any object with a EdgesOnly frame should not be a problem anymore. Bug found by several people.
- * BUG FIX: Again AmigaGuide help did not pop up on the right screen. I fixed for the help attached to the gadget objects but help attached to a window still had this problem. Bug found by Zachary A. Forsyth.
- * BUG FIX: Opening the library twice in the same task and closing it once would result in a crash when using BGUI after the single close. Bug found by Janna Jalkanen.
- * BUG FIX: A PROGRESS_Max equal to PROGRESS_Min would result in a crash. Bug found by Florian Vorberger.
- * BUG FIX: Newlines in the arguments of a BGUI_RequestA() requester resulted in an incorrectly sized requester. Bug found by Janne Jalkanen.
- * Public bug-fix update #2.

1.20 changes.guide/V38.4

V38.4

- * BUG FIX: The way the localization was handler could dereference invalid memory pointers.
- * BUG FIX: Renamed the "Label" macro from the assembly support to "xLabel" to avoid clashes with the exec/types.i "LABEL" macro. Also the "WindowOpen" macro has been renamed to "xWindowOpen".
- * Released as 1.1b.

1.21 changes.guide/V38.5

V38.5

- * Quirk Fix: Uppercase GadgetKeys() now are converted to lowercase for them to work correctly. Found by Michael Barsoom.
 - * BUG FIX: Fixed a mean bug in the library task code which could cause
-

serious problems when the same task opens the library twice. Bug found by Janne Jalkanen.

- * Work around: BGUI should not have any problems with hacks like MagicMenu and CycleToMenu anymore. Included some additional code from Osma Ahvenlampi's "NewObtainGIRPort" patch to the library.
- * BUG FIX: Replace a couple of NULLs by NIL in the E macros.
- * BUG FIX: Fixed some font related problems with the cycle gadget. Sometimes the font height was computed wrong.
- * BUG FIX: In some rare occasions the keyboard handling of objects could get caught in a loop. Should not happen anymore.
- * BUG FIX: The windowclass did not fall back to topaz 8 or the specified font anymore! Fixing this bug also shed light on another bug in the layout engine. Both bugs fixed. Bug found by Nick Christie.
- * Quirk fix. It was not possible to add tab-cycle string objects to a window object in stages. Now it is. Found by Paul Weterings.
- * BUG FIX: Adding the first item to a listview did not show on the screen. Bug found by Emmanuel Doguet.
- * The rastport pointer passed to the Listview custom rendering hook is cached now.
- * BUG FIX: Removed a rendering bug in the MX class which screwed up visuals a bit when the object was switched from disabled to enabled state. This was true for the normal MX objects and mx objects in tabs mode. Bug found by Janne Jalkanen.
- * Added some defines to fix a spelling error in the BGUI headers in which "Separator" was misspelled as "Seperator". Reported by Nick Christie.
- * BUG FIX: The minimum height of string object with a label was bigger than string objects without a label. Bug found by Emmanuel Doguet.
- * Released as bug-fix patch on the mailing list.

1.22 changes.guide/V38.6

V38.6

- * The window class now makes a private copy of the NewMenu array passed via the WINDOW_MenuStrip attribute. Suggested by Janne Jalkanen.
 - * BUG FIX: String class objects, when located in a tab-cycle order, sent two or even three messages to the windowclass event handler. Bug found by several people.
 - * BUG FIX: Yet another dangerous bug found in the library task-tracking
-

code. Sometimes the semaphore did not get released. Bug found by Zachary A. Forsyth.

1.23 changes.guide/V38.7

V38.7

- * **BUG FIX:** Setting an attribute to a cycleclass object on an invisible page would screw up the display. Should be fixed now. Bug found by Stan Burton.
- * **BUG FIX?:** Fixed a bug in the keyboard handling which might be the cause of the fact that sometimes qualifier keys randomly selected objects in a window. Reported by several people.
- * The `stringclass` now supplies all buffers for you.

1.24 changes.guide/V39.1

V39.1

- * Added the `STRINGA_MinCharsVisible` tag which allows you to determine how many characters must always remain visible in a string/integer object. Suggested by Emmanuel Doguet.
 - * Made the `BT_Inhibit` attribute publically available. It can be used to determine wether or not an object is located on an invisible page. Suggested by Kai Szymanski.
 - * **BUG FIX:** The `WINDOW_Screen` attribute opened the windows as visitors on the specified screen. Bug found by Emmanuel Doguet.
 - * Added the `WINDOW_PubScreen` attribute as an alternative way to open windows on a public screen.
 - * Added the `WINDOW_CloseOnEsc` attribute which allows the application to receive a `WMHI_CLOSEWINDOW` when the ESC key is pressed. Suggested by Emmanuel Doguet.
 - * Made the `VIT_Pen` and `VIT_DriPen` attributes settable on button objects with a vector image. Suggested by Nick Christie.
 - * Added the `LVM_REPLACE` method.
 - * Added the `LISTV_SelectMulti` attribute to multi-select listview entries. Suggested by Johan Eliasson.
 - * Added the `LISTV_SelectNotVisible` and `LISTV_SelectMultiNotVisible` attributes to (multi) select entries without them being moved into the
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view area. Suggested by Johan Eliasson.

- * Added the LISTV_MultiSelectNoShift attribute to enable multi-(de)selections without having to use the SHIFT key. Suggested by Johan Eliasson.
- * Made the LISTV_MultiSelect attribute settable with OM_SET and OM_UPDATE. Suggested by Kai Szymanski.
- * Added the ReplaceEntry() macro to the bgui_macros.[h|e|i] files.

1.25 changes.guide/V39.2

V39.2

- * It is now possible to double-click items in a multi-selection listview without de-selecting the entry.
- * BUG FIX: The LVM_REPLACE method did not free up the entry to replace. Ooops.
- * Added the LISTV_Select_All magic number for the LISTV_SelectMulti and the LISTV_SelectMultiNotVisible attributes. This will enable you to select all entries.
- * Added the LISTV_DeSelect attribute to deselect listview entries. A value of ~0 (-1) will deselect all entries in the list.
- * BUG FIX: The BREQF_NO_PATTERN flag did not work.
- * Added the WINDOW_Borderless, WINDOW_Backdrop and WINDOW_ShowTitle attributes. Suggested by several people.
- * Added the following tags: FRM_BackPen, FRM_BackDriPen, FRM_SelectedBackPen, FRM_SelectedBackDriPen, LAB_Pen, LAB_DriPen, LAB_SelectedPen, LAB_SelectedDriPen. These tags are used to set the (dri)pens of the color of background of frames and of labels. These tags have been made settable with the baseclass so it is possible to change colors on the fly. Can't remember who suggested this.

1.26 changes.guide/V39.3

V39.3

- * BUG FIX: A small optimization in the labelclass caused problems with the cycleclass. Whe another label was selected all labels in the cycle object became invisible.
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- * Added the SEP_Recessed attribute to invert the colors of a separator to make it appear recessed. Suggested by Stan Burton.
- * BUG FIX: The string object does not send double events to your application anymore. Also the notification your app got when the object was deactivated is removed. Bugs found by Kai Szymanski.
- * BUG FIX: The hits gotten when resizing a window with a listview while you're adding entries are gone now. Bug found by Greg Patterson.
- * OPT: Optimized the following classes: labelclass, frameclass, vectorclass, groupclass, sliderclass, propclass, windowclass. These optimizations should make BGUI visibly faster. More optimizations will follow.

1.27 changes.guide/V39.4

V39.4

- * BUG FIX: The stringclass object could be made active when disabled by ActivateGadget(). Should not happen anymore. Bug found by Florian Vorberger.
- * BUG FIX: The previous propclass optimizations introduced a bug which caused clicking in the prop but not on the knob not to notify a change.
- * BUG FIX: Added a work-around for the listview->italics problem. Bug found by Nick Christie.

1.28 changes.guide/V39.5

V39.5

- * Tweaked the minimum size of the string object. Suggested by Kay Szymanski.
 - * Made the SLIDER_Min and SLIDER_Max attributes settable. Suggested by Nick Christie.
 - * Added the STRINGA_IntegerMin and STRINGA_IntegerMax attributes. Also added the SM_FORMAT_STRING method. Suggested by Michael Barsoom.
 - * Made the BUTTON_Image and BUTTON_SelectedImage settable. Suggested by Nick Christie.
 - * BUG FIX: Frames do work with indicatorclass objects now. Bug found by Nick Christie.
 - * BUG FIX: Finally all problem with the string/integer objects and
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tab-cycling should be fixed now. Bug found by just about everybody.

1.29 changes.guide/V39.6

V39.6

- * BUG FIX: The WM_MENUDISABLED method from the windowclass did not work on items and subitems. Now it does. Bug found by Emmanuel Doguet.
- * Added the BUTTON_EncloseImage attribute. Suggested by Emmanuel Doguet.
- * Added the WM_GET_SIGNAL_WINDOW method to determine the window from which the signal originated.
- * Added a NULL LISTV_Entry notification when the LVM_CLEAR method is invoked. Suggested by Michael Barsoom.
- * Optimized the baseclass a bit resulting in a slight general speedup.
- * The STRINGA_TextVal/LongVal did not get notified to any target objects. Bug found by Janne Jalkanen.
- * Made the BT_TextAttr attribute gettable with OM_GET.
- * Added the WINDOW_ActNext and WINDOW_ActPrev attributes. These are only useful and of interest to custom BGUI class writers.
- * The infoclass now makes a private copy of the format string. Suggested by Greg Patterson.
- * BUG FIX: Fixed a small baseclass bug which caused mis-layouting when the font changed. Bug found by Nick Christie.
- * BUG FIX: The infoclass did not cut of the lines properly when they went out of the bounds. Bug found by Daniel van Gerpen.
- * BUG FIX: The Left-Amiga+V/Left-Amiga+B shortcuts in BGUI_Request() where mixed up. Bug found by Emmanuel Doguet.
- * BT_TextAttr can now be set at create time which makes it possible to have a multifont display.
- * Finally got rid of the annoying mouse-blocking which occurred on window sizing and opening. Still have to get rid of it when switching pages though.

1.30 changes.guide/V39.7

V39.7

- * BUG FIX: An empty string in a listview object did not show as selected when clicked.
- * BUG FIX: When resizing the GUI whilst doing some keyboard activation of an object could result in a crash. Yuck!
- * QUIRK FIX: Switched to system memory allocation in the info class to avoid problems when another task changes the text of an info-class object. Reported by Kai Szymanski.
- * Removed the internal task-based memory pool scheme. This presented to much problems when programming BGUI in a multi-task application. It was a bad idea to begin with.
- * Made setting WINDOW_Bounds, NULL legal. It simply fall's back to the default in that case. Suggested by Emmanuel Doguet.
- * Added the BREQF_FAST_KEYS flag to default the Return/Esc keys as gadget keys. Suggested by several people.
- * BUG FIX: The sliderclass did not align the knob when it was released at the maximum position.
- * QUIRK FIX: Removed the problem of BGUI windows crashing the system when the size was changed via ZipWindow()/ChangeWindowBox() etc. It should work with tools like Yak now to. Result of this fix is that the mouse will block again when the window is resized using these routines.
- * Added the WINDOW_NoVerify tag to avoid problems with using DOS and not being able to respond to window signals quickly.

1.31 changes.guide/V39.8

V39.8

- * BUG FIX: LVM_CLEAR did not clear the LISTV_LastClicked(num) attributes. Bug found by Emmanuel Doguet.
 - * BUG FIX: Fixed a problem with hotkeys not being disabled on page members which are located on a page which in turn is located on another page. Bug found by Joerg.
 - * BUG FIX: The cycleclass still screwed up the display when the active antry was changed while the object was located on an invisible page. Bug found by Joerg.
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