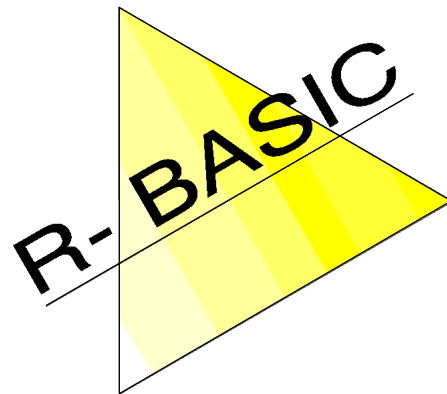# R-BASIC

The Simple PC/GEOS Programming Language
Einfach unter PC/GEOS programmieren

Quick Reference
• Objects •

International Version

Version 1.0

R-BASIC Quick Reference · Objects

All object classes, instance variables, hints and constants.

Quick-Referenz · Objekte

Diese Referenz enthält alle R-BASIC Objektklassen, ihre Instance-Variablen und UI-Hints sowie alle dafür definierten Konstanten.
Zusätzlich finden PC/GEOS-SDK Programmierer Informationen, welche PC/GEOS-SDK-Funktion zur Realisierung dieser verwendet wurde.

Quick Reference · Objects

This reference contains all R-BASIC object classes, its instance variables, UI hints and all constants defined to use with these.
Additionally, PC/GEOS-SDK programmers may be interested to know which PC/GEOS-SDK equivalent the R-BASIC features have.

R-BASIC Quick Reference · Objects

All object classes, instance variables, hints and constants.

Table of Contents

All object classes, instance variables, hints and constants.

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GenericClass & VisualClass Basic Tree Features

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
Children	MSG_GEN_ADD_CHILD MSG_VIS_~
	MSG_GEN_FIND_CHILD_AT_POSITION MSG_VIS_~
parent	MSG_GEN_FIND_PARENT MSG_VIS_~
	MSG_GEN_ADD_CHILD MSG_VIS_~
	MSG_GEN_REMOVE_CHILD MSG_VIS_~
numChildren	MSG_GEN_COUNT_CHILDREN MSG_VIS_~
FindChild	MSG_GEN_FIND_CHILD MSG_VIS_~

GenericClass & VisualClass Other Common Features

BASIC UI/Code Statement	SDK HINT's, ATTR's or instance variables
Class$	not availabe in PC/GEOS-SDK
ClpCopy	MSG_META_COPY
ClpPaste	MSG_META_PASTE
ClpTestPaste	not available in PC/GEOS-SDK
ClpTestCopy	not available in PC/GEOS-SDK
privData	not available in PC/GEOS-SDK
CustomHandler	not available in PC/GEOS-SDK
CustomAction	not available in PC/GEOS-SDK
CustomApply	not available in PC/GEOS-SDK
Size and position	
xSize	VI_bounds.R_right - VI_bounds.R_left
ySize	VI_bounds.R_bottom - VI_bounds.R_top
xPosition	VI_bounds.R_left
yPosition	VI_bound.R_top
Backdoor functions	
ObjAddHint	MSG_META_ADD_VAR_DATA
ObjRemoveHint	MSG_META_DELETE_VAR_DATA

All object classes, instance variables, hints and constants.

GenericClass Basic Features

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
Caption$	GI_visMoniker (Text Moniker)
CaptionImage	GI_visMoniker (GString Moniker)
CaptionPicture	GI_visMoniker (GString Moniker)
CaptionGString	GI_visMoniker (GString Moniker)
CaptionIcon	GI_visMoniker (GString Moniker from Icon)
TOOL_ICON	1
TINY_ICON	1 (synonymus for TOOL_ICON)
SMALL_ICON	2
BIG_ICON	3
GRAY_ICON	4
RGB_ICON.	5
justifyCaption	
J_TOP	HINT_PLACE_MONIKER_ABOVE
J_LEFT	HINT_PLACE_MONIKER_TO_LEFT
J_RIGHT	HINT_PLACE_MONIKER_TO_RIGHT
J_CENTER	HINT_CENTER_MONIKER
kbdSearchPath	GI_attrs = *GA_SEARCH_PATH*
kbdShortcut	MSG_GEN_SET_KBD_ACCELERATOR
	MSG_GEN_GET_KBD_ACCELERATOR
KSM_SHIFT	KS_SHIFT
KSM_CTRL	KS_CTRL
KSM_ALT	KS_ALT
KSM_PHYSICAL	KS_PHYSICAL
readOnly	GI_attrs = *GA_READ_ONLY*
enabled	GI_states = GS_ENABLED
fullyEnabled	MSG_GEN_CHECK_IF_FULLY_ENABLED
visible	GI_states = GS_USABLE
fullyVisible	MSG_GEN_CHECK_IF_FULLY_USABLE
helpFile$	ATTR_GEN_HELP_FILE
helpContext$	ATTR_GEN_HELP_CONTEXT

GenericClass Geometrie-Management

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
Arranging Objects	
orientChildren	
ORIENT_HORIZONTALLY	HINT_ORIENT_CHILDREN_HORIZONTALLY
ORIENT_VERTICLLY	HINT_ORIENT_CHILDREN_VERTICALLY
ORIENT_SAME_AS_PARENT	HINT_SAME_ORIENTATION_AS_PARENT
ORIENT_ON_LARGER_DIMENSION	
	HINT_ORIENT_CHILDREN_ALONG_LARGER_DIMENSION
justifyChildren	
J_BOTTOM	HINT_BOTTOM_JUSTIFY_CHILDREN
J_LEFT	HINT_LEFT_JUSTIFY_CHILDREN
J_RIGHT	HINT_RIGHT_JUSTIFY_CHILDREN
J_TOP	HINT_TOP_JUSTIFY_CHILDREN
J_FULL_H	HINT_FULL_JUSTIFY_CHILDREN_HORIZONTALLY
J_FULL_V	HINT_FULL_JUSTIFY_CHILDREN_VERTICALLY
J_FULL	wirkt wie H + V
J_CENTER_H	HINT_CENTER_CHILDREN_HORIZONTALLY
J_CENTER_V	HINT_CENTER_CHILDREN_VERTICALLY
J_CENTER	wirkt wie H + V
J_CENTER_ON_CAPTION	HINT_CENTER_CHILDREN_ON_MONIKERS
J_CENTER_ON_CAPTION_LEFT:	HINT_LEFT_JUSTIFY_MONIKERS +
	HINT_CENTER_CHILDREN_ON_MONIKERS

All object classes, instance variables, hints and constants.

DivideHeightEqually	HINT_DIVIDE_HEIGHT_EQUALLY
DivideWidthEqually	HINT_DIVIDE_WIDTH_EQUALLY
childSpacing	HINT_CUSTOM_CHILD_SPACING
IncludeEndsInChildSpacing	HINT_INCLUDE_ENDS_IN_CHILD_SPACING
MinimizeChildSpacing	HINT_MINIMIZE_CHILD_SPACING
wrapAfterChild	HINT_ALLOW_CHILDREN_TO_WRAP
	HINT_WRAP_AFTER_CHILD_COUNT

Object Sizeing

ExpandWidth	HINT_EXPAND_WIDTH_TO_FIT_PARENT
ExpandHeight	HINT_EXPAND_HEIGHT_TO_FIT_PARENT
NoWiderThanChildren	HINT_NO_WIDER_THAN_CHILDREN_REQUIRE
NoHigerThanChildren	HINT_NO_TALLER_THAN_CHILDREN_REQUIRE
initialSize	HINT_INITIAL_SIZE
minimumSize	HINT_MINIMUM_SIZE
maximumSize	HINT_MAXIMUM_SIZE
fixedSize	HINT_FIXED_SIZE
ST_PIXELS	SST_PIXLES
ST_LINES_OF_TEXT	SST_LINES_OF_TEXT
old name: ST_TEXT_LINES	SST_LINES_OF_TEXT
ST_AVG_CHAR_WIDTH	SST_AVG_CHAR_WIDTHS
ST_MAX_CHAR_WIDTH	SST_WIDE_CHAR_WIDTHS
ST_PCT_OF_SCREEN_WIDTH	SST_PCT_OF_FIELD_WIDTH
ST_PCT_OF_SCREEN_HEIGHT	SST_PCT_OF_FIELD_HEIGHT

Object Placement

placeObject	0 = nothing special
MENU_BAR	HINT_SEEK_MENU_BAR
REPLY_BAR	HINT_SEEK_REPLY_BAR
TITLE_BAR_LEFT	HINT_SEEK_TITLE_BAR_LEFT
TITLE_BAR_RIGHT	HINT_SEEK_TITLE_BAR_RIGHT
For View objects only:	HINT_SEEK_X_SCROLLER_AREA
	HINT_SEEK_Y_SCROLLER_AREA
	HINT_SEEK_LEFT_OF_VIEW
	HINT_SEEK_TOP_OF_VIEW
	HINT_SEEK_RIGHT_OF_VIEW
	HINT_SEEK_BOTTOM_OF_VIEW
fixedPosition	ATTR_GEN_POSITION

Special Drawing

DrawInBox	HINT_DRAW_IN_BOX
MakeReplyBar	HINT_MAKE_REPLY_BAR
MakeToolBox	HINT_TOOLBOX
bgColor	HINT_GADGET_BACKGROUND_COLORS
tColor	HINT_GADGET_TEXT_COLOR
NoSeparatorLine	HINT_SAME_CATEGORY_AS_PARENT
RaisedFrame	HINT_RAISED_FRAME
RF_LEFT	GRFI_LEFT = 0x8000
RF_TOP	GRFI_TOP = 0x2000
RF_RIGHT	GRFI_RIGHT = 0x1000
RF_BOTTOM	GRFI_BOTTOM = 0x4000

Window-Hints and Methods

SizeWindowAsDesired	HINT_SIZE_WINDOW_AS_DESIRED
NoTitleBar	HINT_WINDOW_NO_TITLE_BAR
NoSysMenu	HINT_WINDOW_NO_SYS_MENU
WindowNotMovable	HINT_NOT_MOVABLE

PositionWindowAtMouse	HINT_POSITION_WINDOW_AT_MOUSE
WindowPositionFromParent	HINT_POSITION_WINDOW_AT_RATIO_OF_PARENT
WindowSizeFromParent	HINT_WINDOW_AS_RATIO_OF_PARENT
WindowSizeFromScreen	HINT_WINDOW_AS_RATIO_OF_FIELD
ExtendWindowToBottomRight	HINT_EXTEND_WINDOW_TO_BOTTOM_RIGHT
ExtendWindowNearBottomRight	HINT_EXTEND_WINDOW_NEAR_BOTTOM_RIGHT
StaggerWindow	HINT_WINDOW_STAGGER_WINDOW
CenterWindow	HINT_WINDOW_CENTER_WINDOW
TileWindow	HINT_WINDOW_TILE_WINDOW
WindowNoConstraints	HINT_WINDOW_NO_CONSTRAINTS
BringToTop	MSG_GEN_BRING_TO_TOP
LowerToBottom	MSG_GEN_LOWER_TO_BOTTOM
MoveWin	MSG_GEN_SET_WIN_POSITION
ResizeWin	MSG_GEN_SET_WIN_SIZE

<u>Apply related</u>

Apply	MSG_GEN_APPLY
ApplyEvenIfNotModified	
	ATTR_GEN_SEND_APPLY_MSG_ON_APPLY_EVEN_IF_NOT_ENABLED
ApplyEvenIfNotEnabled	
	ATTR_GEN_SEND_APPLY_MSG_ON_APPLY_EVEN_IF_NOT_MODIFIED
MakeDelayedApply	ATTR_GEN_PROPERTY

<u>Input related</u>

defaultFocus	HINT_DEFAULT_FOCUS
defaultTarget	HINT_DEFAULT_TARGET
targetable	GI_attrs: GA_TARGETABLE

Input Handling - Keyboard, Focus, Target, Mouse

Specified object classes only

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
Keyboard Handling Related object classes:	Application, InputLine, Memo, View, VisContent, BitmapContent, VisObj
<u>Handler Type:</u> **KeyboardAction**	
OnKeyPressed	MSG_META_KBD_CHAR
KF_FIRST_PRESS	CF_FIRST_PRESS
KF_REPEAT_PRESS	CF_REPEAT_PRESS
KF_RELEASE	CF_RELEASE
KF_STATE_KEY	CF_STATE_KEY
KF_EXTENDED	CF_EXTENDED
KS_RSHIFT	SS_RSHIFT
KS_LSHIFT	SS_LSHIFT
KS_RCTRL	SS_RCTRL
KS_LCTRL	SS_LCTRL
KS_RALT	SS_RALT
KS_LALT	SS_LALT
KS_SCROLL_LOCK	TS_SCROLLLOCK
KS_NUM_LOCK	TS_NUMLOCK
KS_CAPS_LOCK	TS_CAPSLOCK
inputFlags	(not supported by PC/GEOS-SDK)

All object classes, instance variables, hints and constants.

IF_IGNORE_FIRST_PRESS	1	
IF_IGNORE_REPEAT_PRESS	2	
IF_IGNORE_RELEASE	4	
IF_IGNORE_ANY_KEY	7	(7 = 1 + 2 + 4)
IF_FILTER_GENERATED_EVENTS	8	
IF_HANDLER_NO_FIRST_PRESS	16	
IF_HANDLER_NO_REPEAT_PRESS	32	
IF_HANDLER_NO_RELEASE	64	
IF_HANDLER_GENERATED_EVENTS	128	
IF_DONT_MAP_NUM_PAD	256	
IF_MAPPED_NUM_PAD_EXT_BIT	512	

KbdEvent (Method)　　　　　send MSG_META_KBD_CHAR with scan code = 0 to object
KbdEventWithScancode　　　send MSG_META_KBD_CHAR to object
　　Related object classes:　　　All generic and visual class object classes

Focus and Target
　　Related object classes:　　　Application, Primary, Dialog, Menu (Focus only), InputLine, Memo, View, VisContent, BitmapContent, Display, DisplayGroup, VisObj

Handler Type: **FocusAction**
　OnFocusChanged　　　　MSG_META_GAINED_FOCUS_EXCL
　　　　　　　　　　　　　　　MSG_META_LOST_FOCUS_EXCL

Handler Type: **TargetAction**
　OnTargetChanged　　　　MSG_META_GAINED_TARGET_EXCL
　　　　　　　　　　　　　　　MSG_META_LOST_TARGET_EXCL

Mouse Handling
　　Related object classes:　　　View, BitmapContent, VisContent, VisObj, Canvas, Image

Handler Type: **MouseAction**
　OnMouseButton　　　　see ME_constans
　OnMouseMove　　　　　see ME_constans
　OnMouseOver　　　　　see ME_constans

　sendMouseEvents

ME_LEFT_DOWN	1	MSG_META_START_SELECT
ME_LEFT_UP	2	MSG_META_END_SELECT
ME_LEFT_DOUBLE	4	MSG_META_START_SELECT
ME_LEFT_HOLD	8	MSG_META_DRAG_SELECT
ME_RIGHT_DOWN	16	MSG_META_START_MOVE_COPY
ME_RIGHT_UP	32	MSG_META_END__MOVE_COPY
ME_RIGHT_DOUBLE	64	MSG_META_START_SELECT
ME_RIGHT_HOLD	128	MSG_META_DRAG_MOVE_COPY
ME_MOVE	256	MSG_META_MOUSE_PTR
ME_ENTER	512	MSG_META_MOUSE_PTR
		For Contents: MSG_META_RAW_UNIV_ENTER
ME_LEAVE	1024	MSG_META_MSG_META_MOUSE_PTR
		For Contents: MSG_META_RAW_UNIV_LEAVE
REPLACE_BITS	0	
SET_BITS	1	
CLEAR_BITS	2	

GrabMouse (Method)　　　MSG_VIS_GRAB_MOUSE
ReleaseMouse (Method)　　MSG_VIS_RELEASE_MOUSE
TestInside (Method)　　　not supported by the PC/GEOS-SDK
TestInsideAC (Method)　　not supported by the PC/GEOS-SDK

Application Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
Application-Class	**GenApplicationClass**
	some of ths functions are implemented by **GenProcessClass**
AppToken	MSG_GEN_PROCESS_INSTALL_TOKEN
DocToken	MSG_GEN_PROCESS_INSTALL_TOKEN
ExtraToken	MSG_GEN_PROCESS_INSTALL_TOKEN
LongName$	longname statement in gp file (patched to launcher)
userNotes$	usernotes statement in gp file (patched to launcher)
crNote$	LINKFLAGS -N statement in local.mk (patched to launcher)
ActionHandlers **SystemAction**	
OnClpChange	ClipboardAddToNotificationList
MSG_META_CLIPBOARD_NOTIFY_NORMAL_TRANSFER_ITEM_CHANGED	
OnInit	MSG_GEN_PROCESS_OPEN_APPLICATION
OnStartup	MSG_GEN_PROCESS_OPEN_APPLICATION
OnExit	MSG_GEN_PROCESS_CLOSE_APPLIACTION
OnConnection	MSG_META_IACP_NEW_CONNECTION
AF_FOR_PRINT	AppLaunchBlock->ALF_LaunchFlags:
	ALF_LAUNCHED_FOR_PRINTING_ONLY
AF_RESTORE	attachFlags: AAF_RESTORING_FROM_STATE
AF_DATA_FILE	attachFlags: AAF_DATA_FILE_PASSED
AF_SHUTDOWN	MSG_GEN_APPLICATION_GET_STATE returns
	AS_QUIT_DETACHING not set in CLOSE_APPLIACTION
Other Action Handlers	
OnKeyPressed	see "Input Handling"
OnFocusChanged	see "Input Handling"
OnTargetChanged	see "Input Handling"
Methods	
MarkBusy	MSG_GEN_APPLIACTION_MARK_BUSY
MarkNotBusy	MSG_GEN_APPLIACTION_MARK_NOT_BUSY
HoldUpInput	MSG_GEN_APPLIACTION_HOLD_UP_INPUT
ResumeInput	MSG_GEN_APPLIACTION_RESUME_INPUT
IgnoreInput	MSG_GEN_APPLIACTION_IGNORE_INPUT
AcceptInput	MSG_GEN_APPLIACTION_ACCEPT_INPUT

BitmapContent Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
BitmapContent-Class	**VisContentClass**
bitmapFormat	not available in PC/GEOS-SDK
BF_MASK	1 Transparent bitmap
BF_PALETTE	2 Bitmap with palette
defaultColor	not available in PC/GEOS-SDK
DefaultScreen	not available in PC/GEOS-SDK
editMask	not available in PC/GEOS-SDK
suspendDraw	not available in PC/GEOS-SDK
Methods	
GetBitmapHandle	not available in PC/GEOS-SDK
NewBitmapFromHandle	not available in PC/GEOS-SDK
CopyBitmap	not available in PC/GEOS-SDK
Redraw	not available in PC/GEOS-SDK
GetPaletteEntry	not available in PC/GEOS-SDK
SetPaletteEntry	not available in PC/GEOS-SDK
GetFullPalette	not available in PC/GEOS-SDK
SetFullPalette	not available in PC/GEOS-SDK
PokeLine	not available in PC/GEOS-SDK
PeekLine	not available in PC/GEOS-SDK

Other Action Handlers	
OnFocusChanged	see "Input Handling"
OnTargetChanged	see "Input Handling"
OnKeyPressed	see "Input Handling"
OnMouseButton	see "Input Handling"
OnMouseMove	see "Input Handling"
OnMouseOver	see "Input Handling"

Button Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
Button-Class	**GenTriggerClass**
actionData	ATTR_GEN_TRIGGER_ACTION_DATA
interactionCommand	ATTR_GEN_TRIGGER_INTERACTION_COMMAND
IC_CLOSE	IC_DISMISS 1
IC_APPLY	IC_APPLY 3
IC_RESET	IC_RESET 4
IC_OK	IC_OK 5
IC_YES	IC_YES 6
IC_NO	IC_NO 7
IC_STOP	IC_STOP 8
IC_HELP	IC_HELP 10
BringsUpWindow	HINT_TRIGGER_BRINGS_UP_WINDOW
IsDestructive	HINT_TRIGGER_DESTRUCTIVE_ACTION
unhandledEvents	No PC/GEOS-SDK equivalent
ActionHandlers **ButtonAction**	
ActionHandler	GTI_destination = process, GTI_actionMsg
special ActionHandler	
BringUpHelp	MSG_META_BRING_UP_HELP
Methods	
Activate	MSG_GEN_ACTIVATE

Canvas Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
Canvas-Class	GenInteractionClass
buffered	not available in SDK
bufferedDataSize	not available in SDK
DS_TINY	0
DS_SMALL	1
DS_MEDIUM	2
DS_LARGE	3
DS_HUGE	4
defaultColor	not available in SDK
ActionHandlers **DrawAction**	
OnDraw	MSG_VIS_DRAW
Methods	
Dirty	MSG_VIS_REDRAW_ENTIRE_OBJECT

R-BASIC Quick Reference · Objects

All object classes, instance variables, hints and constants.

ColorSelector Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
ColorSelector-Class	**GenColorSelectorClass**
csFeatures	ATTR_GEN_CONTROL_REQUIRE_UI
CSF_FILL_PATTERN	CSF_FILL_PATTERN (1)
CSF_DRAW_MASK	CSF_DRAW_MASK (2)
CSF_RGB	CSF_RGB (4)
CSF_INDEX	CSF_INDEX (8)
CSF_MORE_COLORS	CSF_MORE_COLORS (32)
csColor	CSI_color
csIndexColor	CSI_color
csDrawMask	CSI_drawMask
csDrawMaskValue	CSI_drawMask
csFillPattern	CSI_pattern
<u>ActionHandlers</u> **ColorAction**	
ColorChangedHandler	GCI_output = oself, MSG_META_COLORED_OBJECT_ ~SET_COLOR, ~SET_DRAW_MASK. ~SET_APTTERN

Dialog Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
Dialog-Class	**GenInteractionClass**, GII_visibility = GIV_DIALOG
MakeResizable	HINT_INTERACTION_MAKE_RESIZABLE
NoFocus	HINT_INTERACTION_NO_DISTURB
isOpen	not available in PC/GEOS-SDK, set by messages: MSG_GEN_INTERACTION_INITIATE MSG_GEN_INTERACTION_INITIATE_NO_DISTURB MSG_GEN_GUP_INTERACTION_COMMAND(IC_CLOSE)
interactionCommand	not available in PC/GEOS-SDK, set by message MSG_GEN_GUP_INTERACTION_COMMAND()
attrs	
DA_HIDDEN_UNTIL_OPENED	GII_attrs = GIA_NOT_USER_INITIATABLE
DA_BLOCKING	GII_attrs = GIA_INITIATED_VIA_USER_DO_DIALOG + GIA_MODAL + GIA_NOT_USER_INITIATABLE
modal	
NON_MODAL	(default)
APP_MODAL	GII_attrs = GIA_MODAL
SYS_MODAL	GII_attrs = GIA_SYS_MODAL
dialogType	
DT_NORMAL	GII_type = GIT_ORGANIZATIONAL
DT_PROGRESS	GII_type = GIT_PROGRESS
DT_COMMAND	GII_type = GIT_COMMAND
DT_NOTIFICATION	GII_type = GIT_NOTIFICATION
DT_QUESTION	GII_type = GIT_AFFIRMATION
DT_DELAYED_APPLY	GII_type = GIT_PROPERTIES
<u>ActionHandlers</u> **DialogAction**	
OnOpen	MSG_GEN_INTERACTION_INITIATE
OnClose	MSG_GEN_GUP_INTERACTION_COMMAND(IC_DISMISS)
OnCommand	MSG_GEN_GUP_INTERACTION_COMMAND(<other>)

Other Action Handlers	
OnFocusChanged	see "Input Handling"
OnTargetChanged	see "Input Handling"
Methods	
Open	MSG_GEN_INTERACTION_INITIATE()
OpenNoDisturb	MSG_GEN_INTERACTION_INITIATE_NO_DISTURB()
Close	MSG_GEN_GUP_INTERACTION_COMMAND(IC_DISMISS)
Routines	
OpenBlockingDialog(obj)	UserDoDialog()

Display Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
Display-Class	**GenDisplayClass**
minimizedState	MSG_GEN_DISPLAY_GET_MINIMIZED
	MSG_GEN_DISPLAY_SET_MINIMIZED
	MSG_GEN_DISPLAY_SET_NOT_MINIMIZED
MinimizedOnStartup	HINT_DISPLAY_MINIMIZED_ON_STARTUP
NotMinimizable	HINT_DISPLAY_NOT_MINIMIZABLE
maximizedState	MSG_GEN_DISPLAY_GET_MAXIMIZED
	MSG_GEN_DISPLAY_SET_MAXIMIZED
	MSG_GEN_DISPLAY_SET_NOT_MAXIMIZED
MaximizedOnStartup	HINT_DISPLAY_MAXIMIZED_ON_STARTUP
NotMaximizable	HINT_DISPLAY_NOT_MAXIMIZABLE
NotResizable	HINT_DISPLAY_NOT_RESIZABLE
NotRestorable	HINT_DISPLAY_NOT_RESTORABLE
userDismissable	GDI_Attributes = GDA_USER_DISMISSABLE
	MSG_GEN_DISPLAY_SET_ATTRS
	MSG_GEN_DISPLAY_GET_ATTRS
ActionHandlers **DialogAction**	
OnClose	MSG_GEN_DISPLAY_CLOSE
Other Action Handlers	
OnFocusChanged	see "Input Handling"
OnTargetChanged	see "Input Handling"
Methods	
Close	MSG_GEN_DISPLAY_CLOSE

DisplayControl Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
DisplayControl-Class	**GenDisplayControlClass**
nameOnPrimaryIfMaximized	GDCII_attrs = GDCA_MAXIMIZED_NAME_ON_PRIMARY
dcFeatures	ATTR_GEN_CONTRO_REQUIRE_UI / PROHIBIT_UI
DCF_OVERLAPP_FULL	GDCF_OVERLAPPING_MAXIMIZED = 4
DCF_TILE	GDCF_TILE = 2
DCF_DISPLAY_LIST	GDCF_DISPLAY_LIST = 1

DisplayGroup Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
DisplayGroup-Class	**GenDisplayGroupClass**
fullSizedState	MSG_GEN_DISPLAY_GROUP_GET_FULL_SIZED MSG_GEN_DISPLAY_GROUP_SET_FULL_SIZED MSG_GEN_DISPLAY_GROUP_SET_OVERLAPPING
activeDisplay	MSG_META_GET_TARGET_EXCL
NoFullSizeMode	ATTR_GEN_DISPLAY_GROUP_NO_FULL_SIZED
NoOverlappingMode	ATTR_GEN_DISPLAY_GROUP_NO_OVERLAPPING
TileHorizontally	HINT_DISPLAY_GROUP_TILE_HORIZONTALLY
TileVertically	HINT_DISPLAY_GROUP_TILE_VERTICALLY
SizeIndependlyOfDisplays	HINT_DISPLAY_GROUP_SIZE_ INDEPENDENTLY_OF_DISPLAYS
Methods	
TileDisplays	MSG_GEN_DISPLAY_GROUP_TILE_DISPLAYS
SelectDisplay (n)	MSG_GEN_DISPLAY_CLOSE_SELECT_DISPLAY

DocumentGuardian Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
DocumentGuardian-Class	**GenInteractionClass**
ButtonHandler	not available in PC/GEOS-SDK
configData	not available in PC/GEOS-SDK
documentState	not available in PC/GEOS-SDK
DOCS_OPEN	1
DOCS_MODIFIED	2
DOCS_UNTITLED	4
DOCS_READ_ONLY	8
DOCS_EDIT_TEMPLATE	16
documentHandle	not available in PC/GEOS-SDK
documentName$	not available in PC/GEOS-SDK
documentPath$	not available in PC/GEOS-SDK
documentUserData	not available in PC/GEOS-SDK
SetDocumentState	not available in PC/GEOS-SDK
CreateNewDocument	not available in PC/GEOS-SDK
OpenDocument	not available in PC/GEOS-SDK
CloseDocument	not available in PC/GEOS-SDK
HandleShutdown	not available in PC/GEOS-SDK
HandleRestart	not available in PC/GEOS-SDK

DynamicList Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
DynamicList-Class	**GenDynamicListClass**
DynamicList is a subclass of **RadioButtonGroup**. It inherits all instance variables, methods and handlers from this class.	
Internally, all BASIC instance variables & Co of DynamicList class are implemented as copy of RadioButtonClass. This will look to the BASIC user, as if it is a subclass of RadioButtonClass, as it is in the PC/GEOS-SDK	
numItems direct set in UI Code write in BASIC Code read in BASIC Code	GDLI_numItems GDLI_numItems MSG_GEN_DYNAMIC_LIST_INITIALIZE() MSG_GEN_DYNAMIC_LIST_GET_NUM_ITEMS()
ActionHandlers **ListAction** **QueryHandler**	GDLI_queryMsg
ItemText$ (n) **ItemGString (n)**	MSG_GEN_DYNAMIC_LIST_REPLACE_ITEM_TEXT() MSG_GEN_DYNAMIC_LIST_REPLACE_ITEM_MONIKER()
Methods **InsertItems** **RemoveItems**	MSG_GEN_DYNAMIC_LIST_ADD_ITEMS MSG_GEN_DYNAMIC_LIST_REMOVE_ITEMS
Other ActionHandlers **ApplyHandler** **DoublePressHandler** **StatusHandler**	GIGI_destination, GIGI_applyMsg ATTR_GEN_ITEM_GROUP_CUSTOM_DOUBLE_PRESS ATTR_GEN_ITEM_GROUP_STATUS_MSG

All object classes, instance variables, hints and constants.

FileSelector Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
FileSelector-Class	**GenFileSelectorClass**
selection$	MSG_GEN_FILE_SELECTOR_GET_SELECTION
	MSG_GEN_FILE_SELECTOR_SET_SELLECTION
path$	MSG_GEN_FILE_SELECTOR_GET_FULL_SELLECTION_PATH
	MSG_GEN_FILE_SELECTOR_SET_FULL_SELLECTION_PATH
fullPath$	MSG_GEN_FILE_SELECTOR_GET_FULL_SELLECTION_PATH
	MSG_GEN_FILE_SELECTOR_SET_FULL_SELLECTION_PATH
initialPath	MSG_GEN_PATH_SET
entryFlags	MSG_GEN_FILE_SELECTOR_GET_SELECTION
FEF_SUBDIR	GFSEF_TYPE : GFSET_SUBDIR I GFSET_VOLUME
FEF_OPEN	GFSEF_OPEN
FEF_NO_ENTRY	GFSEF_NO_ENTRY
FEF_ERROR	GFSEF_ERROR
FEF_TEMPLATE	GFSEF_TEMPLATE
FEF_READ_ONLY	GFSEF_READ_ONLY
FEF_PARENT	GFSEF_PARENT_DIR
numFilesToShow	HINT_FILE_SELECTOR_NUMBER_OF_FILES_TO_SHOW
fileListWidth	HINT_FILE_SELECTOR_FILE_LIST_WIDTH
showFilesDisabled	GFSI_attrs: FSA_SHOW_FILES_DISABLED
matchToken	ATTR_GEN_FILE_SELECTOR_TOKEN_MATCH
matchCreator	ATTR_GEN_FILE_SELECTOR_CREATOR_MATCH
matchMask$	ATTR_GEN_FILE_SELECTOR_NAME_MATCH
matchCriteria	GFSI_fileCriteria
FMC_DIRS	FSMC_DIRS
FMC_DOS_FILES	FSMC_NON_GEOS_FILES
FMC_GEOS_EXEC	FSMC_GEOS_EXECUTABLES
FMC_GEOS_DATA	FSMC_GEOS_NON_EXECUTABLES
FMC_ALL_FILES	—
FMC_MASK_CASE_INSENSITIVE	FSMC_MASK_CASE_INSENSITIVE
FMC_USE_MASK_FOR_DIRS	FSMC_USE_MASK_FOR_DIRS
hasMatchToken	Get: ATTR_GEN_FILE_SELECTOR_TOKEN_MATCH
hasMatchCreator	Get: ATTR_GEN_FILE_SELECTOR_TOKEN_MATCH
ActionHandlers **FileAction**	
NotificationHandler	GFSI_destination = oself, GFSI_notificationMsg
Methods	
ClearMatchToken	Remove: ATTR_GEN_FILE_SELECTOR_TOKEN_MATCH
ClearMatchCreator	Remove: ATTR_GEN_FILE_SELECTOR_CREATOR_MATCH
Suspend	MSG_GEN_FILE_SELECTOR_SUSPEND
EndSuspend	MSG_GEN_FILE_SELECTOR_END_SUSPEND
Rescan	MSG_GEN_FILE_SELECTOR_RESCAN
UpDirectory	MSG_GEN_FILE_SELECTOR_UP_DIRECTORY,
	MSG_GEN_FILE_SELECTOR_SET_FULL_SELLECTION_PATH
OpenEntry	MSG_GEN_FILE_SELECTOR_OPEN_ENTRY(currentSel)

R-BASIC Quick Reference · Objects

All object classes, instance variables, hints and constants.

GenContent Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
GenContent-Class	**GenContentClass**
contentAttrs CA_SAME_WIDTH_AS_VIEW CA_SAME_HEIGHT_AS_VIEW CA_VIEW_DOC_BOUNDS_SET_MANUALLY	GCI_attrs VCNA_SAME_WIDTH_AS_VIEW = 0x80 VCNA_SAME_HEIGHT_AS_VIEW = 0x40 VCNA_VIEW_DOC_BOUNDS_SET_MANUALLY = 0x04
KeepFocusVisible	HINT_CONTENT_KEEP_FOCUS_VISIBLE

Group Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
Group-Class	**GenInteractionClass**, GII_visibility = GIV_SUB_GROUP
CannotBeDefault	HINT_INTERACTION_CANNOT_BE_DEFAULT

Image Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
Image-Class	**GenInteractionClass**
ImageFile	not availabe in SDK
ImagePicture	not availabe in SDK
ImageResource	not availabe in SDK
numPicts	not availabe in SDK
pictNum	not availabe in SDK
imgInfo	not availabe in SDK
imgState IMGS_NO_IMAGE IMGS_BITMAP IMGS_GSTRING IMGS_ANIMATION_RUNNING IMGS_ANIMATION_PAUSE	not availabe in SDK 0 No image or error 1 Still picture, bitmap 2 Still picture, gstring 3 animation, running 4 animation, paused
scale	not availabe in SDK, uses GrApplyScale
drawPos	not availabe in SDK, uses GrApplyTranslation
borderColor	not availabe in SDK
bgColor	not availabe in SDK
autoSize	not availabe in SDK
autoStart	not availabe in SDK
currentFrame	not availabe in SDK
numFrames	not availabe in SDK
animationTics	not availabe in SDK
Methods **AnimationStart**	TimerStart()
AnimationStop	TimerStop()
AnimationNext	not availabe in SDK
Redraw	not availabe in SDK

InputLine Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
InputLine-Class	**BASIC-MemoClass** (GenTextClass) GTXI_attrs = GTA_SINGLE_LINE_TEXT
no own instance variables	inherits all from **MemoClass**

LargeText Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
LargeText-Class	**VisLargeTextClass**
approxSize	not available in SDK
all other instance variables	see **VisText Class**
Note VisText instance variables, that deal with the **geometry** as well as **drawable**, **detect-** **able** and **managed** are **not supported**	

Memo Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
Memo-Class	**GenTextClass**
text$	GTXI_text
maxLen	GTXI_maxLength
textLen	MSG_VIS_TEXT_GET_TEXT_SIZE()
cursorPos	read: MSG_VIS_TEXT_GET_SELECTION_RANGE write: MSG_VIS_TEXT_SELECT_RANGE_SMALL
selectionEnd	read: MSG_VIS_TEXT_GET_SELECTION_RANGE write: MSG_VIS_TEXT_SELECT_RANGE_SMALL
selectionLen	read: MSG_VIS_TEXT_GET_SELECTION_RANGE write: MSG_VIS_TEXT_SELECT_RANGE_SMALL
SelectedText$	MSG_VIS_TEXT_GET_SELECTION_PTR
TextRange$	MSG_VIS_TEXT_GET_SELECTION_PTR
fontID	ATTR_GEN_TEXT_CHAR_ATTR: VTCA_fontID
fontSize	ATTR_GEN_TEXT_CHAR_ATTR: VTCA_pointSize
textStyle	ATTR_GEN_TEXT_CHAR_ATTR: VTCA_textStyles
TS_UNDERLINE	1
TS_STRIKE_THRU	2
TS_SUBSCRIPT	4
TS_SUPERSCRIPT	8
TS_ITALIC	16
TS_BOLD	32
TS_OUTLINE	64
textColor	ATTR_GEN_TEXT_CHAR_ATTR: VTCA_color
backColor	HINT_TEXT_WASH_COLOR
justifyText	ATTR_GEN_TEXT_PARA_ATTR: VTPA_attributes
lineSpacing	ATTR_GEN_TEXT_PARA_ATTR: VTPA_lineSpacing
margins	ATTR_GEN_TEXT_PARA_ATTR: VTPA_leftMargin, VTPA_rightMargin, VTPA_paraMargin
topSpace	ATTR_GEN_TEXT_PARA_ATTR: VTPA_spaceOnTop

All object classes, instance variables, hints and constants.

textFilter	
TF_NONE	–
TF_NORMAL_ASCII	ATTR_GEN_TEXT_NORMAL_ASCII
TF_DOS_CHARACTER_SET	ATTR_GEN_TEXT_DOS_CHARACTER_SET
TF_ALPHA	ATTR_GEN_TEXT_ALPHA
TF_ALPHA_NUMERIC	ATTR_GEN_TEXT_ALPHA_NUMERIC
TF_DASHED_ALPHA_NUMERIC	ATTR_GEN_TEXT_DASHED_ALPHA_NUMERIC
TF_NUMERIC	ATTR_GEN_TEXT_NUMERIC
TF_SIGNED_NUMERIC	ATTR_GEN_TEXT_SIGNED_NUMERIC
TF_SIGNED_DECIMAL	ATTR_GEN_TEXT_SIGNED_DECIMAL
TF_FLOAT_DECIMAL	ATTR_GEN_TEXT_FLOAT_DECIMAL
TF_LEGAL_FILENAMES	ATTR_GEN_TEXT_LEGAL_FILENAMES
TF_LEGAL_DOS_FILENAMES	ATTR_GEN_TEXT_LEGAL_DOS_FILENAMES
TF_LEGAL_DOS_PATH	ATTR_GEN_TEXT_LEGAL_DOS_PATH
TF_LEGAL_DOS_VOLUME_NAMES	ATTR_GEN_TEXT_LEGAL_DOS_VOLUME_NAMES
TF_DATE	ATTR_GEN_TEXT_DATE
TF_TIME	ATTR_GEN_TEXT_TIME
TF_MAKE_UPPERCASE	ATTR_GEN_TEXT_MAKE_UPPERCASE
TF_ALLOW_SPACES	ATTR_GEN_TEXT_ALLOW_SPACES
TF_NO_SPACES	ATTR_GEN_TEXT_NO_SPACES
TextFrame	HINT_TEXT_FRAME
TextNoFrame	HINT_TEXT_NO_FRAME
SelectableIfRO	ATTR_GEN_TEXT_SELECTABLE
textAttrs	**GTXI_attrs (GTA_ ...), HINT_TEXT_ ... ATTR_GEN_TEXT**
TA_DONT_SCROLL_TO_CHANGES	GTA_DONT_SCROLL_TO_CHANGES
TA_TAIL_ORIENTED	GTA_TAIL_ORIENTED
TA_ALLOW_TEXT_OFF_END	GTA_ALLOW_TEXT_OFF_END
TA_NO_WORD_WRAPPING	GTA_NO_WORD_WRAPPING
TA_INIT_SCROLLING	GTA_INIT_SCROLLING
TA_USE_TAB_FOR_NAVIGATION	GTA_USE_TAB_FOR_NAVIGATION
TA_NEVER_SCROLLABLE	ATTR_GEN_TEXT_NEVER_MAKE_SCROLLABLE
TA_SELECT_TEXT	HINT_TEXT_SELECT_TEXT
TA_CURSOR_AT_START	HINT_TEXT_CURSOR_AT_START
TA_CURSOR_AT_END	HINT_TEXT_CURSOR_AT_END
modified	GTXI_stateFlags = 0 l GTSF_MODIFIED (0x40)
	MSG_GEN_TEXT_SET_MODIFIED_STATE()
	MSG_GEN_TEXT_IS_MODIFIED()

ActionHandlers **TextAction**

ApplyHandler	GTXI_destination, GTXI_applyMsg
OnModified	MSG_META_TEXT_USER_MODIFIED()
StatusHandler	ATTR_GEN_TEXT_STATUS_MSG
OnSelectionChanged	MSG_META_KBD_CHAR, MSG_META_START_SELECT,
	MSG_META_PTR, MSG_VIS_TEXT_SELECT_RANGE

Other Action Handlers

OnKeyPressed	see "Input Handling"
OnFocusChanged	see "Input Handling"
OnTargetChanged	see "Input Handling"

Methods

SendStatus	MSG_GEN_TEXT_SEND_STATUS_MSG(0)
Append	MSG_VIS_TEXT_APPEND_PTR
Insert	MSG_VIS_TEXT_SELECT_RANGE(cursorPos)
	+ MSG_VIS_TEXT_REPLACE_SELECTION_PTR
ReplaceSelection	MSG_VIS_TEXT_REPLACE_SELECTION_PTR
DeleteSelection	MSG_VIS_TEXT_DELETE_SELECTION
DeleteRange	MSG_VIS_TEXT_SELECT_RANGE
	+ MSG_VIS_TEXT_DELETE_SELECTION
ShowCursor	MSG_VIS_TEXT_SELECT_RANGE(cursorPos)
	+ MSG_VIS_TEXT_SHOW_POSITION
ScrollDown	MSG_VIS_TEXT_SCROLL_PAGE_DOWN
ScrollUp	MSG_VIS_TEXT_SCROLL_PAGE_UP
Suspend	MSG_META_SUSPEND
EndSuspend	MSG_META_UNSUSPEND

File related Methods	
WriteToFile **ReplaceFromFile** **InsertFromFile** **FileTextSize** **WriteToVMFile** **ReplaceFromVMFile** **InsertFromVMFile** **VMFileTextSize**	File related methods are not supported in SDK

Menu Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
Menu-Class	**GenInteractionClass**, GII_visibility = GIV_POPUP
Other Action Handlers **OnFocusChanged**	see "Input Handling"

Number Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
Number-Class	**GenValueClass**
value **minVal** **maxVal** **incVal**	GVLI_value GVLI_minimum GVLI_maximum GVLI_increment
modified	GVLI_stateFlags = 0 l GVSF_MODIFIED
displayFormat DF_INTEGER DF_DECIMAL DF_POINTS DF_INCHES DF_CENTIMETERS DF_MILLIMETERS DF_PICAS DF_EUR_POINT DF_CICEROS DF_POINTS_OR_MILLIMETERS DF_INCHES_OR_CENTIMETERS	GVLI_displayFormat GVDF_INTEGER (0) GVDF_DECIMAL (1) GVDF_POINTS (2) GVDF_INCHES (3) GVDF_CENTIMETERS (4) GVDF_MILLIMETERS (5) GVDF_PICAS (6) GVDF_EUR_POINTS (7) GVDF_CICEROS (8) GVDF_POINTS_OR_MILLIMETERS (9) GVDF_INCHES_OR_CENTIMETERS (10)
decimal	ATTR_GEN_VALUE_DECIMAL_PLACES
NavigateToNextFieldOnReturn	HINT_VALUE_NAVIGATE_TO_NEXT_FIELD_ON_RETURN_PRESS
look LOOK_NORMAL LOOK_NOT_DIGITALLY_EDITABLE LOOK_NOT_INCREMENTABLE LOOK_X_SLIDER LOOK_Y_SLIDER	 no special hints HINT_VALUE_NOT_DIGITALLY_EDITABLE HINT_VALUE_NOT_INCREMENTABLE HINT_VALUE_ANALOG_DISPLAY + HINT_VALUE_ORIENT_HORIZONTALLY HINT_VALUE_ANALOG_DISPLAY + HINT_VALUE_ORIENT_VERTICALLY

Customize Sliders
SliderNoDigitalDisplay   HINT_VALUE_NO_DIGITAL_DISPLAY
SliderShowMinMax   HINT_VALUE_SHOW_MIN_AND_MAX
sliderShowIntervals   HINT_VALUE_DISPLAY_INTERVALS

ActionHandlers   **NumberAction**
ApplyHandler   GVLI_destination=process, GVLI_applyMsg
StatusHandler   ATTR_GEN_VALUE_STATUS_MSG

Methods
Increment   MSG_GEN_VALUE_INCREMENT
Decrement   MSG_GEN_VALUE_DECREMENT
SendStatus   MSG_GEN_VALUE_SEND_STATUS_MSG(0)

Option Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
Option-Class	**GenBooleanClass**
identifier	GBI_identifier

OptionGroup Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
OptionGroup-Class	
selection	GBGI_selectedBooleans
isSelected	MSG_GEN_BOOLEAN_GROUP_IS_BOOLEAN_SELECTED
modified	GBGI_modifiedBooleans
isModified	MSG_GEN_BOOLEAN_GROUP_IS_BOOLEAN_MODIFIED
look	
LOOK_NORMAL	no special hints
LOOK_SCROLLABLE	HINT_BOOLEAN_GROUP_SCROLLABLE
LOOK_MINIMIZE_SIZE	HINT_BOOLEAN_GROUP_MINIMIZE_SIZE
LOOK_TOOLBOX	HINT_BOOLEAN_GROUP_TOOLBOX_STYLE
ActionHandlers **ListAction**	
ApplyHandler	GBGI_destination, GBGI_applyMsg
StatusHandler	ATTR_GEN_BOOLEAN_GROUP_STATUS_MSG
Methods	
SendStatus	MSG_GEN_BOOLEAN_GROUP_SEND_STATUS_MSG(0)
MakeVisible	MSG_GEN_BOOLEAN_GROUP_MAKE_BOOLEAN_VISIBLE

PageSizeControl Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
PageSizeControl-Class	**GenPageSizeControl**
	PCZI_attrs = PCZA_ACT_LIKE_GADGET I PZCA_INITIALIZE
pscFeatures	ATTR_GEN_CONTRO_REQUIRE_UI / PROHIBIT_UI
PSCF_MARGINS	PSIZECF_MARGINS = 16
PSCF_CUSTOM_SIZE	PSIZECF_CUSTOM_SIZE = 8
PSCF_LAYOUT	PSIZECF_LAYOUT = 4
PSCF_SIZE_LIST	PSIZECF_SIZE_LIST = 2
PSCF_PAGE_TYPE	PSIZECF_PAGE_TYPE = 1
PSC_DEFAULT_FEATURE$	= 15 ' margins are off by default
pageSize	PZCI_width, PZCI_height
PS_WIDTH	4
PS_HEIGHT	5
pageMargins	PZCI_margins
PS_LEFT_MARGIN	0
PS_TOP_MARGIN	1
PS_RIGHT_MARGIN	2
PS_BOTTOM_MARGIN	3
pageLayout	PZCI_layout
PL_PAPER	0
PL_PAPER_LANDSCAPE	8
PL_ENVELOPE	2
PL_LABEL	4
Methods:	
ShowDialog	MSG_GEN_INTERACTION_INITIATE

Primary Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
Primary-Class	**GenPrimaryClass**
BreakButton	No PC/GEOS-SDK equivalent.
FileMenuChildren	No PC/GEOS-SDK equivalent.
Caption2$	MSG_GEN_PRIMARY_GET/SET_LONG_TERM_MONIKER
PrimaryFullScreen	HINT_PRIMARY_FULL_SCREEN
NoFileMenu	HINT_PRIMARY_NO_FILE_MENU
NoExpressMenu	HINT_PRIMARY_NO_EXPRESS_MENU
PrimaryNoHelpButton	HINT_PRIMARY_NO_HELP_BUTTON
Other Action Handlers	
OnFocusChanged	see "Input Handling"
OnTargetChanged	see "Input Handling"

PrintControl Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
PrintControl-Class	**GenPrintControlClass**
	PCI_output = oself
	PCI_docNameOutput = oself
pcAttrs	PCI_attrs
PCA_NO_PRINTER_CONTROLS	PCA_NO_PRINTER_CONTROLS = &h8000
PCA_SEE_IF_DOC_WILL_FIT	PCA_SEE_IF_DOC_WILL_FIT = &h4000
PCA_MARK_APP_BUSY	PCA_MARK_APP_BUSY = &h2000
PCA_VERIFY_PRINT	PCA_VERIFY_PRINT = &h1000
PCA_SHOW_PROGRESS	PCA_SHOW_PROGRESS = &h800
PCA_PROGRESS_PERCENT	PCA_PROGRESS_PERCENT = &h400
PCA_PROGRESS_PAGE	PCA_PROGRESS_PAGE = &h200
PCA_FORCE_ROTATION	PCA_FORCE_ROTATION = &h100
PCA_COPY_CONTROLS	PCA_COPY_CONTROLS = &h80
PCA_PAGE_CONTROLS	PCA_PAGE_CONTROLS = &h40
PCA_QUALITY_CONTROLS	PCA_QUALITY_CONTROLS = &h20
PCA_USES_DIALOG_BOX	PCA_USES_DIALOG_BOX = &h10
PCA_GRAPHICS_MODE	PCA_GRAPHICS_MODE = &h8
PCA_TEXT_MODE	PCA_TEXT_MODE = &h4
PC_DEFAULT_ATTRS	= 0x48FC
pcAppUI	ATTR_PRINT_CONTROL_APP_UI
pcDocSize	PCI_docSizeInfo.PSR_width, ~.PSR_height
PS_WIDTH	4
PS_HEIGHT	5
pcDocMargins	PCI_docSizeInfo.PSR_margins
PS_LEFT_MARGIN	0
PS_TOP_MARGIN	1
PS_RIGHT_MARGIN	2
PS_BOTTOM_MARGIN	3
pcLayout	PCI_docSizeInfo.PSR_layout
PL_PAPER	0
PL_PAPER_LANDSCAPE	8
PL_ENVELOPE	2
PL_LABEL	4
pcPaperSizeInfo	MSG_PRINT_CONTROL_GET_PAPER_SIZE_INFO
PS_-constants	see above
totalPageRange	PCI_startPage, PCI_endPage
userPageRange	PCI_startUserPage, PCI_endUserPage
printJobName$	not available in PC/GEOS-SDK
printMode	MSG_PRINT_CONTROL_GET_PRINT_MODE
Action Handles **DrawAction**	
OnPrint	MSG_PRINT_START_PRINTING
OnVerifyPrint	MSG_PRINT_CONTROL_VERIFY_PRINT_REQUEST
Methods	
InitiatePrint	MSG_PRINT_CONTROL_INITIATE_PRINT
PrintingCompleted	MSG_PRINT_CONTROL_PRINTING_COMPLETED
PrintingCancelled	MSG_PRINT_CONTROL_PRINT(ING_CANCELLED
PrintingVerified	MSG_PRINT_CONTROL_VERIFY_COMPLEDTED
ReportProgress	MSG_PRINT_CONTROL_REPORT_PROGRESS
RPT_PAGE	0
PRT_PERCENT	2
ReportProgressText	MSG_PRINT_CONTROL_REPORT_PROGRESS
PrintNewPage	GrNewPage()

All object classes, instance variables, hints and constants.

RadioButton Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
RadioButton-Class	**GenItemClass**
identifier	GII_identifier

RadioButtonGroup Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
RadioButtonGroup-Class	**GenItemGroupClass**
behavior	GIGI_behaviorType
LB_EXCLUSIVE	GIGBT_EXCLUSIVE (0)
LB_EXCLUSIVE_NONE	GIGBT_EXCLUSIVE_NONE (1)
LB_EXTENDED_SELECTION	GIGBT_EXTENDED_SELECTION (2)
LB_NON_EXCLUSIVE	GIGBT_NON_EXCLUSIVE (3)
selection	GIGI_selection
NONE_SELECTED	0xFFFF (GIGS_NONE)
isSelected	MSG_GEN_ITEM_GROUP_IS_ITEM_SELECTED
numSelections	GIGI_numSelections
modified	GIGI_stateFlags = 0 l GIGSF_MODIFIED
ModifiedOnRedundantSelection	
	ATTR_GEN_ITEM_GROUP_SET_MODIFIED_ON_REDUNDANT_SELECTION
<u>ActionHandlers</u> **ListAction**	
ApplyHandler	GIGI_destination GIGI_applyMsg
DoublePressHandler	ATTR_GEN_ITEM_GROUP_CUSTOM_DOUBLE_PRESS
StatusHandler	ATTR_GEN_ITEM_GROUP_STATUS_MSG
DisplayCurrentSelection	HINT_ITEM_GROUP_DISPLAY_CURRENT_SELECTION
look	
LOOK_NORMAL	no special hints
LOOK_SCROLLABLE	HINT_ITEM_GROUP_SCROLLABLE
LOOK_MINIMZE_SIZE	HINT_ITEM_GROUP_MINIMIZE_SIZE
LOOK_TOOLBOX	HINT_ITEM_GROUP_TOOLBOX_STYLE
LOOK_TABS_TOP	Combinations of HINT_ITEM_GROUP_TAB_STYLE with
LOOK_TABS_LEFT	HINT_ORIENT_CHILDREN_HORIZONTALLY/VERTICALLY
LOOK_TABS_RIGHT	HINT_EXPAND_WIDTH/HEIGHT_TO_FIT_PARENT
LOOK_TABS_BOTTOM	HINT_RIGHT/BOTTOM_JUSTIFY_CHILDREN
DontCenterTabbedChildren	HINT_ITEM_GROUP_DONT_CENTER_TABBED_CHIDREN
<u>Methods</u>	
SendStatus	MSG_GEN_ITEM_GROUP_SEND_STATUS_MSG(0)
MakeVisible	MSG_GEN_ITEM_GROUP_MAKE_ITEM_VISIBLE
SelectItem	MSG_GEN_ITEM_GROUP_SET_ITEM_STATE

View Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
View-Class	**GenViewClass**
Basic Configuration	
Content	GVI_content
contentSize	GVI_docBounds
Redraw	MSG_GEN_VIEW_REDRAW_CONTENT()
viewAttrs	GVI_attrs
VA_CONTROLLED	GVA_CONTROLLED
VA_GENERIC_CONTENTS	GVA_GENERIC_CONTENTS
VA_DRAG_SCROLLING	GVA_DRAG_SCROLLING
VA_NO_WIN_FRAME	GVA_NO_WIN_FRAME
VA_SAME_COLOR_AS_PARENT_WIN	
	GVA_SAME_COLOR_AS_PARENT_WIN
VA_VIEW_FOLLOWS_CONTENT_GEOMETRY	
	GVA_VIEW_FOLLOWS_CONTENT_GEOMETRY
VA_SCALE_TO_FIT	GVA_SCALE_TO_FIT
VA_ADJUST_FOR_ASPECT_RATIO	
	GVA_ADJUST_FOR_ASPECT_RATIO
	Note: The GVI_attrs not listed here are either not available or are available using other instance variables
Geometry	
hControl	GVI_horizAttrs
vControl	GVI_vertAttrs
HVC_SCROLLABLE	GVDA_SCROLLABLE
HVC_TAIL_ORIENTED	GVDA_TAIL_ORIENTED
HVC_NO_SCROLLBAR	GVDA_DONT_DISPLAY_SCROLLBAR
HVC_NO_LARGER_THAN_CONTENT	GVDA_NO_LARGER_THAN_CONTENT
HVC_NO_SMALLER_THAN_CONTENT	GVDA_NO_SMALLER_THAN_CONTENT
HVC_KEEP_ASPECT_RATIO	GVDA_KEEP_ASPECT_RATIO
viewColor	GVI_color
HideScrollersWhenNotScrollable	
	HINT_VIEW_REMOVE_SCROLLERS_WHEN_NOT_SCROLLABLE
Scaling and Scrolling	
scale	GVI_scaleFactor
scaleToFitOptions	
SFO_PAGE_SIZE	ATTR_GEN_VIEW_PAGE_SIZE
SFO_BASED_ON_X	ATTR_GEN_VIEW_SCALE_TO_FIT_BASED_ON_X
SFO_BOTH_DIMENSIONS	ATTR_GEN_VIEW_SCALE_TO_FIT_BOTH_DIMENSIONS
origin	GVI_origin
GetVisibleRect	MSG_GEN_VIEW_GET_VISIBLE_RECT(RectDWord *rect)
ScrollToOffset xOffs, yOffs	MSG_GEN_VIEW_SCROLL
ScrollCmd cmd [, param]	
SC_TOP	MSG_GEN_VIEW_SCROLL_TOP()
SC_PAGE_UP	MSG_GEN_VIEW_SCROLL_PAGE_UP()
SC_UP	MSG_GEN_VIEW_SCROLL_UP()
SC_SET_Y_ORIGIN yOrigin	
	MSG_GEN_VIEW_SCROLL_SET_Y_ORIGIN(sdword yOrigin)
SC_DOWN	MSG_GEN_VIEW_SCROLL_DOWN()
SC_PAGE_DOWN	MSG_GEN_VIEW_SCROLL_PAGE_DOWN()
SC_BOTTOM	MSG_GEN_VIEW_SCROLL_BOTTOM()
SC_LEFT_EDGE	MSG_GEN_VIEW_SCROLL_LEFT_EDGE()
SC_PAGE_LEFT	MSG_GEN_VIEW_SCROLL_PAGE_LEFT()
SC_LEFT	MSG_GEN_VIEW_SCROLL_LEFT()
SC_SET_X_ORIGIN xOrigin	
	MSG_GEN_VIEW_SCROLL_SET_X_ORIGIN(sdword xOrigin)
SC_RIGHT	MSG_GEN_VIEW_SCROLL_RIGHT()
SC_PAGE_RIGHT	MSG_GEN_VIEW_SCROLL_PAGE_RIGHT()
SC_RIGHT_EDGE	MSG_GEN_VIEW_SCROLL_RIGHT_EDGE()
viewIncrement	GVI_increment
DoNotWinScroll	ATTR_GEN_VIEW_DO_NOT_WIN_SCROLL

suspendUpdate
    TRUE: MSG_GEN_VIEW_SUSPEND_UPDATE()
    FALSE: MSG_GEN_VIEW_UNSUSPEND_UPDATE()
InitiateDragScroll   MSG_GEN_VIEW_INITIATE_DRAG_SCROLL()
SetDragBounds   MSG_GEN_VIEW_SET_DRAG_BOUNDS
ImmediateDragUpdates HINT_VIEW_IMMEDIATE_DRAG_UPDATES
DelayedDragUpdates   HINT_VIEW_DELAYED_DRAG_UPDATES

Change Pointer Image
SetPointerImage   MSG_GEN_VIEW_SET_PTR_IMAGE (...)
ClearPointerImage   MSG_GEN_VIEW_SET_PTR_IMAGE (0)

Other Features
hLink   GVI_horizLink
vLink   GVI_vertLink

inputOptions
    VIO_DONT_SEND_MOUSE_EVENTS
            GVI_attrs: GVA_DONT_SEND_PTR_EVENTS
    VIO_DONT_SEND_KBD_RELEASES
            GVI_attrs: GVA_DONT_SEND_KBD_RELEASES
focusable   GVI_attrs: GVA_FOCUSABLE

holdsLargeText   not availabe in SDK

Children of a View   placeObject, set for the **child**
                       16 = HINT_SEEK_X_SCROLLER_AREA
                       32 = HINT_SEEK_Y_SCROLLER_AREA
                       64 = HINT_SEEK_LEFT_OF_VIEW
                      128 = HINT_SEEK_TOP_OF_VIEW
                      256 = HINT_SEEK_RIGHT_OF_VIEW
                      512 = HINT_SEEK_BOTTOM_OF_VIEW

Other Action Handlers
OnFocusChanged   see "Input Handling"
OnTargetChanged   see "Input Handling"
OnKeyPressed   see "Input Handling"
OnMouseButton   see "Input Handling"
OnMouseMove   see "Input Handling"
OnMouseOver   see "Input Handling"

ViewControl Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
ViewControl	**GenViewControlClass**
vcFeatures	ATTR_GEN_CONTROL_FEATURES
VCF_MAIN_100	GVCF_MAIN_100 = 0x4000
VCF_MAIN_SCALE_TO_FIT	GVCF_MAIN_SCALE_TO_FIT = 0x2000
VCF_ZOOM_IN	GVCF_ZOOM_IN = 0x1000
VCF_ZOOM_OUT	GVCF_ZOOM_OUT = 0x0800
VCF_REDUCE	GVCF_REDUCE = 0x0400
VCF_100	GVCF_100 = 0x0200
VCF_ENLARGE	GVCF_ENLARGE = 0x0100
VCF_BIG_ENLARGE	GVCF_BIG_ENLARGE = 0x0080
VCF_SCALE_TO_FIT	GVCF_SCALE_TO_FIT = 0x0040
VCF_ADJUST_ASPECT_RATIO	GVCF_ADJUST_ASPECT_RATIO = 0x0020
VCF_APPLY_TO_ALL	GVCF_APPLY_TO_ALL = 0x0010
VCF_SHOW_HORIZONTAL	GVCF_SHOW_HORIZONTAL = 0x0008
VCF_SHOW_VERTICAL	GVCF_SHOW_VERTICAL = 0x0004
VCF_CUSTOM_SCALE	GVCF_CUSTOM_SCALE = 0x0002
VCF_REDRAW	GVCF_REDRAW = 0x0001

vcAttrs	GVCI_attrs
VCA_ADJUST_ASPECT_RATIO	GVCA_ADJUST_ASPECT_RATIO = 0x8000
VCA_APPLY_TO_ALL	GVCA_APPLY_TO_ALL = 0x4000
VCA_SHOW_HORIZONTAL	GVCA_SHOW_HORIZONTAL = 0x2000
VCA_SHOW_VERTICAL	GVCA_SHOW_VERTICAL = 0x1000
vcMinZoom	GVCI_minZoom (default: 25)
vcMaxZoom	GVCI_maxZoom (default: 400)
vcScale	GVCI_scale = 100
targetView	-
ScaleView100	-
ScaleViewToFit	-
ZoomInView	MSG_GVC_ZOOM_IN
ZoomOutView	MSG_GVC_ZOOM_OUT
RedrawView	MSG_GVC_REDRAW
ScrollLeftView	MSG_GVC_PAGE_LEFT
ScrollRightView	MSG_GVC_PAGE_RIGHT
ScrollUpView	MSG_GVC_PAGE_UP
ScrollDownView	MSG_GVC_PAGE_DOWN

VisGroup Class (VisContent and VisObj Common Features)

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
Drawing to Screen	
buffered	not available in SDK
bufferedDataSize	not available in SDK
DS_TINY	0
DS_SMALL	1
DS_MEDIUM	2
DS_LARGE	3
DS_HUGE	4
defaultColor	not available in SDK
clipDrawing	GrSetClipRect()
Drawing Related Methods	
Dirty	MSG_VIS_REDRAW_ENTIRE_OBJECT
Redraw	MSG_VIS_REDRAW_ENTIRE_OBJECT
ActionHandlers **DrawAction**	
OnDraw	MSG_VIS_DRAW
Managig Size and Position	
customManageChildren	VCI_geoAttrs: VCGA_CUSTOM_MANAGE_CHILDREN
visPosition	VI_bounds
visSize	VI_bounds
visSizeOptions	MSG_VIS_RECALC_SIZE
VSO_AUTO_SIZE	0
VSO_VARIABLE_SIZE	1
VSO_FIXED_SIZE	2
VSO_FIXED_WIDTH	3
VSO_FIXED_HEIGHT	4
visSizeFlags	VCI_geoDimensionAttrs
VSF_EXPAND_WIDTH	32
VSF_DIVIDE_WIDTH_EQUALLY	16
VSF_EXPAND_HEIGHT	2
VSF_DIVIDE_HEIGHT_EQUALLY	1
visMinimumSize	MSG_VIS_COMP_GET_MINIMUM_SIZE
	VCI_geoAttrs: VCGA_HAS_MINIMUM_SIZE
visOrientVertically	VCI_geoAttrs: VCGA_ORIENT_CHILDRN_VERTICALLY
visChildJustification	VCI_geoDimensionAttrs
visChildSpacing	MSG_VIS_COMP_GET_CHILD_SPACING

visSpacingIncludeEnds	VCI_geoAttrs: VCGA_INCLUDE_ENDS_IN_CHILD_SPACING
visMargins	MSG_VIS_COMP_GET_MARGINS
visWarpCount	MSG_VIS_COMP_GET_WRAP_COUNT
allowChildrenToWrap	VCI_geoAttrs: VCGA_ALLOW_CHILDREN_TO_WRAP
Other Action Handlers	
OnFocusChanged	see "Input Handling"
OnTargetChanged	see "Input Handling"
OnKeyPressed	see "Input Handling"
OnMouseButton	see "Input Handling"
OnMouseMove	see "Input Handling"
OnMouseOver	see "Input Handling"
Methods	
MarkInvalid	MSG_VIS_MARK_INVALID(VOF_GEOMETRY_INVALID | VOF_IMAGE_INVALID, VUM_NOW);
SDK Programmers Support	
MarkInvalid2	MSG_VIS_MARK_INVALID(visOptFlags, updateMode);
visClassAttrs	VI_attrs
visCompGeoAttrs	VCI_geoAttrs
visCompDimensionAttrs	VCI_geoDimensionAttrs

VisContent Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
VisContent-Class	**VisContentClass**
Drawing to Screen	See: "VisComp Class"
Managig Size and Position	See: "VisComp Class"
Mouse, Keyboard,	
Focus, Target	See: "Input Handling"
contentAttrs	VCNI_attrs
CA_SAME_WIDTH_AS_VIEW	VCNA_SAME_WIDTH_AS_VIEW = 0x80
CA_SAME_HEIGHT_AS_VIEW	VCNA_SAME_HEIGHT_AS_VIEW = 0x40
CA_VIEW_DOC_BOUNDS_SET_MANUALLY	
	VCNA_VIEW_DOC_BOUNDS_SET_MANUALLY = 0x04
holdsLargeText	not availabe in SDK
Methods	
CreateVisObject	ObjInstantiate()
DestroyVisObject	MSG_VIS_DESTROY

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VisObj Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
VisObj-Class	**VisCompClass**
Drawing to Screen	See: "VisGroup Class"
Managig Size and Position	See: "VisGroup Class"
Mouse, Keyboard,	
Focus, Target	See: "Input Handling"
managed	VI_attrs: VA_MANAGED
drawable	VI_attrs: VA_DRAWABLE + check in MSG_VIS_DRAW
detectable	VI_attrs: VA_DETECTABLE
visDataValue	not available in SDK
grabFocusOnMouseEvents	MSG_META_GRAB_FOCUS_EXCL()
grabTargetOnMouseEvents	MSG_META_GRAB_TARGET_EXCL()
Dragging Instances	
dragGString	not available in SDK
isDragging	not available in SDK
dragPosition	not available in SDK
dragOffset	not available in SDK
Dragging-Methods	
DragStart	not available in SDK
DragMoveTo	not available in SDK
DragEnd	not available in SDK
DragAbort	not available in SDK
Other Tool Methods	
DrawFrame	not available in SDK
DrawInverse	not available in SDK
DrawHandles	not available in SDK
TestHandles	not available in SDK
Other Action Handlers	
OnFocusChanged	see "Input Handling"
OnTargetChanged	see "Input Handling"
OnKeyPressed	see "Input Handling"
OnMouseButton	see "Input Handling"
OnMouseMove	see "Input Handling"
OnMouseOver	see "Input Handling"

VisText Class

BASIC UI Statement	SDK HINT's, ATTR's or instance variables
VisText-Class	**VisTextClass**
text$	MSG_VIS_TEXT_GET_ALL_PTR
textLen	MSG_VIS_TEXT_GET_TEXT_SIZE()
cursorPos	read: MSG_VIS_TEXT_GET_SELECTION_RANGE
	write: MSG_VIS_TEXT_SELECT_RANGE
selectionEnd	read: MSG_VIS_TEXT_GET_SELECTION_RANGE
	write: MSG_VIS_TEXT_SELECT_RANGE
selectionLen	read: MSG_VIS_TEXT_GET_SELECTION_RANGE
	write: MSG_VIS_TEXT_SELECT_RANGE
SelectedText$	MSG_VIS_TEXT_GET_SELECTION_PTR
TextRange$	MSG_VIS_TEXT_GET_SELECTION_PTR
fontID	write: MSG_VIS_TEXT_SET_FONT_ID
	read: MSG_VIS_TEXT_GET_CHAR_ATTR: VTCA_fontID
fontSize	write: MSG_VIS_TEXT_SET_POINT_SIZE
	read: MSG_VIS_TEXT_GET_CHAR_ATTR: VTCA_pointSize
textStyle	write: MSG_VIS_TEXT_SET_CHAR_ATTR:
	read: MSG_VIS_TEXT_GET_CHAR_ATTR: VTCA_textStyles
TS_UNDERLINE	1
TS_STRIKE_THRU	2
TS_SUBSCRIPT	4
TS_SUPERSCRIPT	8
TS_ITALIC	16
TS_BOLD	32
TS_OUTLINE	64
textColor	write: MSG_VIS_TEXT_SET_CHAR_ATTR:
	read: MSG_VIS_TEXT_GET_CHAR_ATTR: VTCA_color
backColor	MSG_VIS_TEXT_SET_WASH_COLOR
justifyText	write: MSG_VIS_TEXT_SET_PARA_ATTR:
	read: MSG_VIS_TEXT_GET_PARA_ATTR: VTPA_attributes
lineSpacing	write: MSG_VIS_TEXT_SET_PARA_ATTR:
	read:MSG_VIS_TEXT_GET_PARA_ATTR: VTPA_lineSpacing
margins	write: MSG_VIS_TEXT_SET_PARA_ATTR:
	read: MSG_VIS_TEXT_GET_PARA_ATTR: VTPA_leftMargin, VTPA_rightMargin, VTPA_paraMargin
topSpace	write: MSG_VIS_TEXT_SET_PARA_ATTR:
	read: MSG_VIS_TEXT_GET_PARA_ATTR: VTPA_spaceOnTop
textFilter	MSG_VIS_TEXT_SET_FILTER ... ~_GET_FILTER
TF_NONE	VTFC_NO_FILTER
TF_NORMAL_ASCII	VTFC_NORMAL_ASCII
TF_DOS_CHARACTER_SET	VTFC_DOS_CHARACTER_SET
TF_ALPHA	VTFC_ALPHA
TF_ALPHA_NUMERIC	VTFC_ALPHA_NUMERIC
TF_DASHED_ALPHA_NUMERIC	VTFC_DASHED_ALPHA_NUMERIC
TF_NUMERIC	VTFC_NUMERIC
TF_SIGNED_NUMERIC	VTFC_SIGNED_NUMERIC
TF_SIGNED_DECIMAL	VTFC_SIGNED_DECIMAL
TF_FLOAT_DECIMAL	VTFC_FLOAT_DECIMAL
TF_LEGAL_FILENAMES	VTFC_LEGAL_FILENAMES
TF_LEGAL_DOS_FILENAMES	VTFC_DOS_FILENAMES
TF_LEGAL_DOS_PATH	VTFC_DOS_PATH
TF_LEGAL_DOS_VOLUME_NAMES	VTFC_DOS_VOLUME_NAMES
TF_DATE	VTFC_DATE
TF_TIME	VTFC_TIME
TF_MAKE_UPPERCASE	VTFC_UPCASE_CHARS
TF_NO_SPACES	VTFC_NO_SPACES
textAttrs	MSG_VIS_TEXT_SET_FILTER ... ~_GET_FILTER

TA_USE_TAB_FOR_NAVIGATION	VTFC_NO_TABS

modified	read: MSG_VIS_TEXT_GET_USER_MODIFIED write: MSG_VIS_TEXT_SET_USER_MODIFIED MSG_VIS_TEXT_SET_NOT_USER_MODIFIED

ActionHandlers **TextAction**

OnModified	MSG_META_TEXT_USER_MODIFIED()
OnSelectionChanged	MSG_META_KBD_CHAR, MSG_META_START_SELECT, MSG_META_PTR, MSG_VIS_TEXT_SELECT_RANGE For LargeText: MSG_META_LARGE_START_SELECT, MSG_META_LARGE_PTR

Other Action Handlers

OnKeyPressed	see "Input Handling"
OnFocusChanged	see "Input Handling"
OnTargetChanged	see "Input Handling"

Methods

Append	MSG_VIS_TEXT_APPEND_PTR
Insert	MSG_VIS_TEXT_SELECT_RANGE(cursorPos) + MSG_VIS_TEXT_REPLACE_SELECTION_PTR
ReplaceSelection	MSG_VIS_TEXT_REPLACE_SELECTION_PTR
DeleteSelection	MSG_VIS_TEXT_DELETE_SELECTION
DeleteRange	MSG_VIS_TEXT_SELECT_RANGE + MSG_VIS_TEXT_DELETE_SELECTION
ShowCursor	MSG_VIS_TEXT_SELECT_RANGE(cursorPos) + MSG_VIS_TEXT_SHOW_POSITION
Suspend	MSG_META_SUSPEND
EndSuspend	MSG_META_UNSUSPEND

File related Methods

WriteToFile	File related methods are not supported in SDK
ReplaceFromFile	
InsertFromFile	
FileTextSize	
WriteToVMFile	
ReplaceFromVMFile	
InsertFromVMFile	
VMFileTextSize	

VisClass-level instances

managed	VI_attrs: VA_MANAGED
drawable	VI_attrs: VA_DRAWABLE + check in MSG_VIS_DRAW
detectable	VI_attrs: VA_DETECTABLE
visPosition	VI_bounds
visSize	VI_bounds
visTextFrame	not available in SDK, MSG_VIS_DRAW overwritten
visTextFrameOptions	not available in SDK, MSG_VIS_DRAW overwritten

SDK Programmers Support

MarkInvalid2	MSG_VIS_MARK_INVALID(visOptFlags, updateMode);
visClassAttrs	VI_attrs