

API Documentation

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1 Module AWNLib

1.1 Functions

initiate(*meta*={})

Do the work to create a new applet. This does not yet run the applet.

Parameters

meta: The meta-information to pass to the constructor
(*type=dict*)

Return Value

The newly created applet.
(*type=Applet*)

start(*applet*)

Start the applet. This makes the icon appear on the bar and starts GTK+/
GNOME.

Parameters

applet: The applet to start.
(*type=Applet*)

1.2 Variables

Name	Description
__file__	Value: '(imported)'

1.3 Class KeyRingError

1.3.1 Methods

__init__(*self, str*)

__str__(*self*)

1.4 Class Dialogs

1.4.1 Methods

__init__(*self, parent*)

Creates instance of Dialogs object

Parameters

parent: The parent applet of the dialogs instance.
(*type=Applet*)

new(*self*, *dialog*, *title=None*, *focus=True*)

Create a new AWN dialog**Parameters**

- dialog:** The name to register the dialog under.
(*type=string*)
- title:** The title of the new dialog
(*type=string*)
- focus:** Whether to force the focus
(*type=bool*)

Return Value

The new menu or dialog
(*type=gtk.Menu, function, or awn.AppletDialog*)

register(*self*, *dialog*, *dlog*)

Register a dialog to be used by AWNLib.**Parameters**

- dialog:** The name to use for the dialog. The predefined values are main, secondary, menu, and program.
(*type=string*)
- dlog:** The actual dialog or menu or function.
(*type=function, gtk.Menu, or awn.AppletDialog*)

toggle(*self*, *dialog*, *force=''*, *once=False*)

Shows a dialog.**Parameters**

- dialog:** The dialog that should be shown.
(*type=string*)
- force:** "Hide" or "Show". Whether to force the hiding or showing of the dialog in question.
(*type=string*)
- once:** Only show or hide one dialog. If a dialog is already opened, and you request that another dialog be toggled, only the open one is hidden. False by default.
(*type=bool*)

hide(*self*)

Hide all dialogs.

click(*self*, *w=None*, *e=None*)

Responds to click events. Only called by GTK.

1.5 Class Title

1.5.1 Methods

__init__(*self*, *parent*, *text*=None)

Creates a new Title object.

Parameters

parent: The parent applet of the title instance.
(*type=Applet*)

text: The text to fill the title with. Defaults to the meta name property.
(*type=string*)

show(*self*, *w*=None, *e*=None)

Show the applet title.

hide(*self*, *w*=None, *e*=None)

Hides the applet title.

set(*self*, *text*='')

Sets the applet title.

Parameters

text: The new title text. Defaults to "".
(*type=string*)

1.6 Class Icon

1.6.1 Methods

__init__(*self*, *parent*)

Creates a new Icon object.

Parameters

parent: The parent applet of the icon instance.
(*type=Applet*)

file(*self*, *file*, *set*=True)

Get an icon from a file location.

Parameters

- file:** The path to the file. Can be relative or absolute.
(*type=string*)
- set:** Whether to also set the icon. True by default.
(*type=bool*)

Return Value

The resultant pixbuf or None (if *set* is True)
(*type=gtk.gdk.Pixbuf or None*)

theme(*self*, *name*, *set*=True)

Get an icon from the default icon theme.

Parameters

- name:** The name of the theme icon.
(*type=string*)
- set:** Whether to also set the icon. True by default.
(*type=bool*)

Return Value

The resultant pixbuf or None (if *set* is True)
(*type=gtk.gdk.Pixbuf or None*)

surface(*self*, *surface*, *pixbuf*=None, *set*=True)

Convert a cairo surface to a `gtk.gdk.Pixbuf`.

Parameters

- surface:** The cairo surface to convert.
(*type=cairo.Surface*)
- pixbuf:** The reference to the pixbuf created from the surface. If you use this method multiple times, please keep a reference to this variable, or else your applet will leak memory.
(*type=gtk.gdk.Pixbuf*)
- set:** Whether to also set the icon. True by default.
(*type=bool*)

Return Value

The resultant pixbuf or None (if *set* is True)
(*type=gtk.gdk.Pixbuf or None*)

set(*self*, *icon*, *raw*=False)

Set a `gtk.gdk.pixbuf` as your applet icon.

Parameters

- icon:** The icon to set your applet icon to.
(*type=gtk.gdk.Pixbuf*)
- raw:** If true, don't resize the passed pixbuf. False by default.
(*type=bool*)

hide(*self*)

 Hide the applet's icon.

1.7 Class Modules

1.7.1 Methods

__init__(*self*, *parent*)

 Creates a new Modules object.

Parameters

parent: The parent applet of the icon instance.
(*type=Applet*)

depend(*self*, *name*, *packagelist*, *callback*)

 Tells the user that they need to install a program to use your applet. Note that this does not do any checking to determine whether the said program is installed. You must do all checking yourself.

Parameters

name: the name of the program that must be installed.
(*type=string*)

packagelist: A dict of "distro": "package" pairs with the names of the packages of the given distro that can be used to install the said program.
(*type=dict*)

callback: The function to be called when the user claims to have installed the necessary program. Remember that you must check whether or not this is true.
(*type=function*)

get(*self*, *name*, *packagelist*, *callback*)

 Tells the user that they need to install a module to use your applet. This function will attempt to import the module, and if this is not possible, alert the user. Otherwise, it will call your callback with the module as the first (and only) argument

Parameters

name: the name of the module that must be installed.
(*type=string*)

packagelist: A dict of "distro": "package" pairs with the names of the packages of the given distro that can be used to install the said module.
(*type=dict*)

callback: The function to be called when the user claims to have installed the necessary module. The module is passed as the first and only argument to the callback.
(*type=function*)

Return Value

The module requested.
(*type=module*)

1.8 Class Errors

1.8.1 Methods

`--init--(self, parent)`

Creates a new Modules object.

Parameters

parent: The parent applet of the icon instance.
(*type=Applet*)

`program(self, name, packagelist, callback)`

Tells the user that they need to install a program to use your applet. Note that this does not do any checking to determine whether the said program is installed. You must do all checking yourself - this is typically done with co-recursive functions.

Parameters

name: the name of the program that must be installed.
(*type=string*)

packagelist: A dict of "distro": "package" pairs with the names of the packages of the given distro that can be used to install the said program.
(*type=dict*)

callback: The function to be called when the user claims to have installed the necessary program. Remember that you must check whether or not this is true.
(*type=function*)

`module(self, name, packagelist, callback)`

Tells the user that they need to install a module to use your applet. This function will attempts to import the module, and if this is not possible, alert the user. Otherwise, it will call your callback with the module as the first (and only) argument

Parameters

name: the name of the module that must be installed.
(*type=string*)

packagelist: A dict of "distro": "package" pairs with the names of the packages of the given distro that can be used to install the said module.
(*type=dict*)

callback: The function to be called when the user claims to have installed the necessary module. The module is passed as the first and only argument to the callback.
(*type=function*)

Return Value

The module requested.
(*type=module*)

general(*self*, *error*, *callback*)

Tells the user that they need to install a module to use your applet. This function will attempt to import the module, and if this is not possible, alert the user. Otherwise, it will call your callback with the module as the first (and only) argument

Parameters

- error:** the error itself.
(*type=string or Exception*)
- callback:** The function to be called when the user claims to have installed the necessary module. The module is passed as the first and only argument to the callback.
(*type=function*)

1.9 Class Settings

1.9.1 Methods

__init__(*self*, *parent*)

Creates a new Settings object. Note that the Settings object should be used as a dictionary.

Parameters

- parent:** The parent applet of the settings instance.
(*type=Applet*)

require(*self*, *folder=None*)

Imports necessary modules. Should be called before any other functions are used. Should only be called if the applet expects to use Settings.

Parameters

- folder:** The folder to use for your applet. If not given, the "short" meta information is used.
(*type=string*)

cd(*self*, *folder*)

Change to another folder. Note that this will change folders to e.g. /apps/avant-window-navigator/applets/[folder] in the GConf implementation and to just /applets/[folder] in the iniKey implementation.

Parameters

- folder:** The folder to use for your applet. If not given, the "short" meta information is used.
(*type=string*)

notify(*self*, *key*, *callback*)

Set up a function to be executed every time a key changes. Note that this works best (if at all) on whole folders, not individual keys.

Parameters

key: The key or folder to monitor for changes.
(*type=string*)
callback: The function to call upon changes.
(*type=function*)

__getitem__(*self*, *key*)

Get a key from the current directory.

Parameters

key: A relative path to the correct key
(*type=string*)

Return Value

The value of the key
(*type=object*)

__setitem__(*self*, *key*, *value*)

Set or create a key from the current directory.

Parameters

key: A relative path to the correct key
(*type=string*)

__delitem__(*self*, *key*)

Delete a key from the current directory.

Parameters

key: A relative path to the correct key
(*type=string*)

1.10 Class KeyRing

1.10.1 Methods

__init__(*self*, *parent*)

Creates a new Keyring object.

Parameters

parent: The parent applet of the keyring instance.
(*type=Applet*)

require(*self*)

Imports necessary modules. Should be called before any other functions are used. Should only be called if the applet expects to use KeyRing.

new(*self*, *name*=None, *pwd*=None, *attrs*={}, *type*='generic')

Create a new keyring key.

Parameters

- name:** The display name of the key. If omitted, an empty key is returned.
(*type=string*)
- pwd:** The password stored in the key. If omitted, an empty key is returned.
(*type=string*)
- attrs:** Other attributes stored in the key. By default: {}
(*type=dict*)
- type:** The type of key. By default: "generic"
(*type=string; "generic", "network", or "note"*)

Return Value

A new Key object
(*type=Key*)

fromToken(*self*, *token*)

Load the key with the given token.

Parameters

- token:** The password token of the key
(*type=int or long*)

Return Value

A new Key object
(*type=Key*)

1.11 Class Timing

1.11.1 Methods

__init__(*self*, *parent*)

Creates a new Timing object.

Parameters

- parent:** The parent applet of the timing instance.
(*type=Applet*)

register(*self*, *callback*, *sec*)

Create a new timer-run function.

Parameters

callback: Function to be called.
(*type=function*)
sec: Number of seconds within each call.
(*type=float or int*)

Return Value

A Callback object for the `callback` parameter
(*type=Callback*)

time(*self*, *callback*, *sec*)

Create a new timer-run function.

Parameters

callback: Function to be called.
(*type=function*)
sec: Number of seconds within each call.
(*type=float or int*)

Return Value

A Callback object for the `callback` parameter
(*type=Callback*)

1.12 Class Notify

1.12.1 Methods

__init__(*self*, *parent*)

Creates a new Notify object.

Parameters

parent: The parent applet of the notify instance.
(*type=Applet*)

require(*self*)

Imports necessary modules and checks for dependancies. Should be called before any other functions are used. Should only be called if the applet expects to use Notify.

send(*self*, *subject*=None, *body*='', *icon*='', *attention*=True)

Sends a new libnotify message.

Parameters

- subject:** The subject of your message. If blank, "Message from [applet - full name]" is used.
(*type=string*)
- body:** The main body of your message. Blank by default.
(*type=string*)
- icon:** The full absolute path to the name of the icon to use.
(*type=string*)
- attention:** Whether or not to call the attention effect after sending the message. True by default.
(*type=bool*)

1.13 Class Effects

1.13.1 Methods

__init__(*self*, *parent*)

Creates a new Effects object.

Parameters

- parent:** The parent applet of the effects instance.
(*type=Applet*)

attention(*self*)

Launches the notify effect. Should be used when the user's attention is required.

notify(*self*)

Launches the notify effect. Should be used when the user's attention is required.

launch(*self*)

Launches the launch effect. Should be used when launching another program.

1.14 Class Meta

1.14.1 Methods

__init__(*self*, *parent*, *info*={})

Creates a new Meta object.

Parameters

- parent:** The parent applet of the meta instance.
(*type=Applet*)
- info:** Default values for the meta dictionary
(*type=dict*)

update(*self*, *info*)

Updates the meta instance with new information

Parameters

- info:** Default values for the meta dictionary
(*type=dict*)

__getitem__(*self*, *key*)

Get a key from the dictionary

Parameters

- key:** The key
(*type=string*)

__setitem__(*self*, *key*, *value*)

Set a key in the dictionary

Parameters

- key:** The key
(*type=string*)
- value:** The value
(*type=string*)

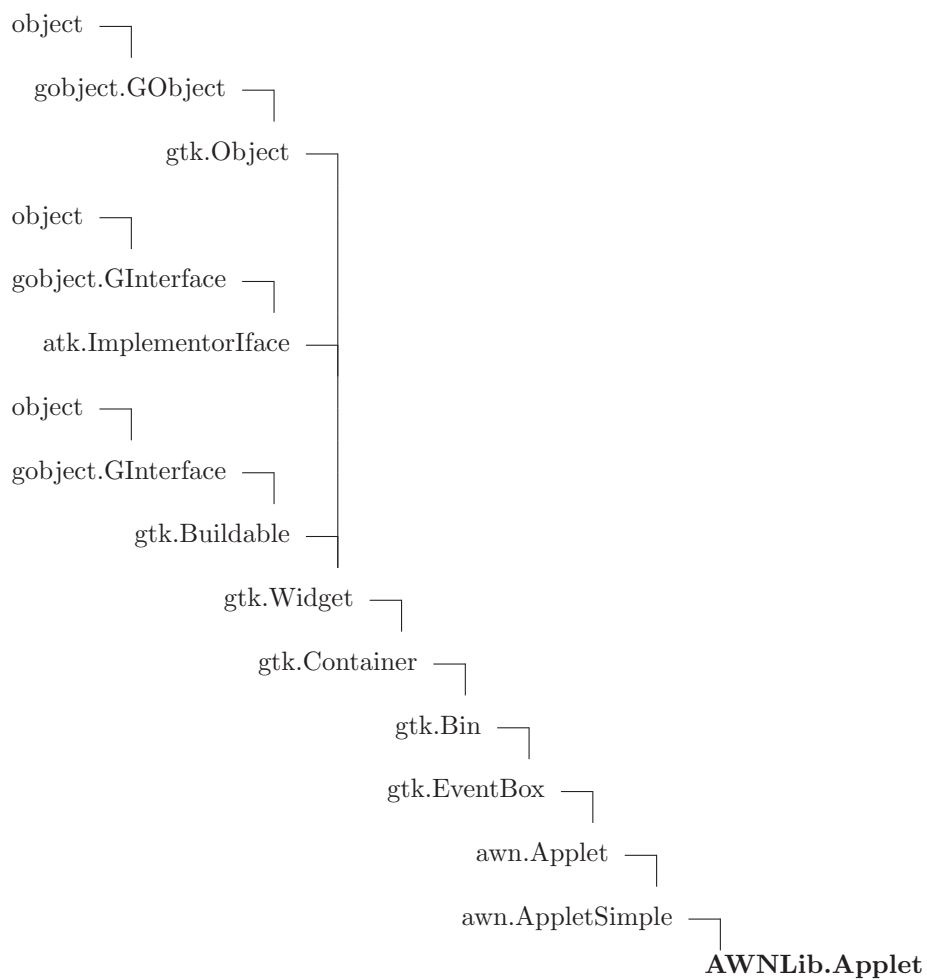
__delitem__(*self*, *key*)

Delete a key from the dictionary

Parameters

- key:** The key
(*type=string*)

1.15 Class Applet



1.15.1 Methods

`__init__(self, uid, orient, height, meta={})`

Create a new instance of the Applet object.

Parameters

- uid:** The unique identifier of the applet
(*type=string*)
- orient:** The orientation of the applet. 0 means that the AWN bar is on the bottom of the screen.
(*type=int*)
- height:** The height of the applet.
(*type=int*)
- meta:** The meta information to be passed to the Meta constructor
(*type=dict*)

Overrides: `awn.AppletSimple.__init__`

__cmp__(*x*, *y*)

cmp(*x*,*y*)

__delattr__(...)

x.__delattr__('name') <==> del x.name

Overrides: object.__delattr__

__gdoc__(...)

__getattr__(...)

x.__getattr__('name') <==> x.name

__gobject_init__(...)

__hash__(*x*)

hash(*x*)

Overrides: object.__hash__

__iter__(*x*)

iter(*x*)

__len__(*x*)

len(*x*)

__new__(*T*, *S*, ...)

Return Value

 a new object with type *S*, a subtype of *T*

Overrides: object.__new__

__nonzero__(*x*)

x != 0

__reduce__(...)

helper for pickle

__reduce_ex__(...)

helper for pickle

`__repr__(x)``repr(x)`

Overrides: object.__repr__

`__setattr__(...)``x.__setattr__('name', value) <==> x.name = value`

Overrides: object.__setattr__

`__str__(x)``str(x)``activate(...)``add(...)``add_accelerator(...)``add_child(...)``add_events(...)``add_mnemonic_label(...)``add_preferences(...)``add_with_properties(...)``can_activate_accel(...)``chain(...)``check_resize(...)``child_focus(...)``child_get(...)``child_get_property(...)``child_notify(...)``child_set(...)``child_set_property(...)`

`child_type(...)``children(...)``class_path(...)``connect(...)``connect_after(...)``connect_object(...)``connect_object_after(...)``construct_child(...)``create_default_menu(...)``create_pango_context(...)``create_pango_layout(...)``destroy(...)`Overrides: `gtk.Object.destroy``disconnect(...)``disconnect_by_func(...)``do_add(...)``do_add_child(...)``do_button_press_event(...)``do_button_release_event(...)``do_can_activate_accel(...)``do_check_resize(...)``do_child_type(...)``do_client_event(...)``do_composite_name(...)`

do_composited_changed(...)

do_configure_event(...)

do_construct_child(...)

do_delete_event(...)

do_destroy(...)

do_destroy_event(...)

do_direction_changed(...)

do_drag_begin(...)

do_drag_data_delete(...)

do_drag_data_get(...)

do_drag_data_received(...)

do_drag_drop(...)

do_drag_end(...)

do_drag_leave(...)

do_drag_motion(...)

do_enter_notify_event(...)

do_event(...)

do_expose_event(...)

do_focus(...)

do_focus_in_event(...)

do_focus_out_event(...)

do_forall(...)

do_get_accessible(...)

`do_get_child_property(...)``do_get_internal_child(...)``do_grab_broken_event(...)``do_grab_focus(...)``do_grab_notify(...)``do_hide(...)``do_hide_all(...)``do_hierarchy_changed(...)``do_key_press_event(...)``do_key_release_event(...)``do_leave_notify_event(...)``do_map(...)``do_map_event(...)``do_mnemonic_activate(...)``do_motion_notify_event(...)``do_no_expose_event(...)``do_parent_set(...)``do_parser_finished(...)``do_popup_menu(...)``do_property_notify_event(...)``do_proximity_in_event(...)``do_proximity_out_event(...)``do_realize(...)`

`do_remove(...)``do_screen_changed(...)``do_scroll_event(...)``do_selection_clear_event(...)``do_selection_get(...)``do_selection_notify_event(...)``do_selection_received(...)``do_selection_request_event(...)``do_set_child_property(...)``do_set_focus_child(...)``do_set_name(...)``do_show(...)``do_show_all(...)``do_show_help(...)``do_size_allocate(...)``do_size_request(...)``do_state_changed(...)``do_style_set(...)``do_unmap(...)``do_unmap_event(...)``do_unrealize(...)``do_visibility_notify_event(...)``do_window_state_event(...)`

`drag_begin(...)``drag_check_threshold(...)``drag_dest_add_image_targets(...)``drag_dest_add_text_targets(...)``drag_dest_add_uri_targets(...)``drag_dest_find_target(...)``drag_dest_get_target_list(...)``drag_dest_get_track_motion(...)``drag_dest_set(...)``drag_dest_set_proxy(...)``drag_dest_set_target_list(...)``drag_dest_set_track_motion(...)``drag_dest_unset(...)``drag_get_data(...)``drag_highlight(...)``drag_source_add_image_targets(...)``drag_source_add_text_targets(...)``drag_source_add_uri_targets(...)``drag_source_get_target_list(...)``drag_source_set(...)``drag_source_set_icon(...)``drag_source_set_icon_name(...)``drag_source_set_icon_pixbuf(...)`

`drag_source_set_icon_stock(...)``drag_source_set_target_list(...)``drag_source_unset(...)``drag_unhighlight(...)``draw(...)``emit(...)``emit_stop_by_name(...)``ensure_style(...)``error_bell(...)``event(...)``flags(...)``forall(...)``foreach(...)``freeze_child_notify(...)``freeze_notify(...)``get_above_child(...)``get_accessible(...)``get_action(...)``get_activate_signal(...)``get_allocation(...)``get_ancestor(...)``get_border_width(...)``get_child(...)`

`get_child_requisition(...)``get_child_visible(...)``get_children(...)``get_clipboard(...)``get_colormap(...)``get_composite_name(...)``get_data(...)``get_direction(...)``get_display(...)``get_effects(...)``get_events(...)``get_extension_events(...)``get_focus_chain(...)``get_focus_hadjustment(...)``get_focus_vadjustment(...)``get_has_tooltip(...)``get_height(...)``get_internal_child(...)``get_modifier_style(...)``get_name(...)`Overrides: `gtk.Buildable.get_name``get_no_show_all(...)``get_orientation(...)``get_pango_context(...)`

`get_parent(...)``get_parent_window(...)``get_pointer(...)``get_properties(...)``get_property(...)``get_resize_mode(...)``get_root_window(...)``get_screen(...)``get_settings(...)``get_size_request(...)``get_style(...)``get_tooltip_markup(...)``get_tooltip_text(...)``get_tooltip_window(...)``get_toplevel(...)``get_visible_window(...)``get_visual(...)``grab_add(...)``grab_default(...)``grab_focus(...)``grab_remove(...)``handler_block(...)``handler_block_by_func(...)`

`handler_disconnect(...)``handler_is_connected(...)``handler_unblock(...)``handler_unblock_by_func(...)``has_screen(...)``hide(...)``hide_all(...)``hide_on_delete(...)``input_shape_combine_mask(...)``install_child_property(...)``intersect(...)``is_ancestor(...)``is_composited(...)``is_focus(...)``keynav_failed(...)``list_child_properties(...)``list_mnemonic_labels(...)``map(...)``menu_get_for_attach_widget(...)``mnemonic_activate(...)``modify_base(...)``modify_bg(...)``modify_cursor(...)`

`modify_fg(...)``modify_font(...)``modify_style(...)``modify_text(...)``notify(...)``parser_finished(...)``path(...)``propagate_expose(...)``props(...)``queue_clear(...)``queue_clear_area(...)``queue_draw(...)``queue_draw_area(...)``queue_resize(...)``queue_resize_no_redraw(...)``rc_get_style(...)``realize(...)``ref_accessible(...)``region_intersect(...)``register_effects(...)``remove(...)``remove_accelerator(...)``remove_data(...)`

`remove_mnemonic_label(...)``remove_no_notify(...)``render_icon(...)``reparent(...)``reset_rc_styles(...)``reset_shapes(...)``resize_children(...)``selection_add_target(...)``selection_add_targets(...)``selection_clear_targets(...)``selection_convert(...)``selection_owner_set(...)``selection_remove_all(...)``send_expose(...)``set_above_child(...)``set_accel_path(...)``set_activate_signal(...)``set_app_paintable(...)``set_border_width(...)``set_child_visible(...)``set_colormap(...)``set_composite_name(...)``set_data(...)`

`set_direction(...)``set_double_buffered(...)``set_events(...)``set_extension_events(...)``set_flags(...)``set_focus_chain(...)``set_focus_child(...)``set_focus_hadjustment(...)``set_focus_vadjustment(...)``set_icon(...)``set_name(...)`Overrides: `gtk.Buildable.set_name``set_no_show_all(...)``set_parent(...)``set_parent_window(...)``set_properties(...)``set_property(...)``set_reallocate_redraws(...)``set_redraw_on_allocate(...)``set_resize_mode(...)``set_scroll_adjustments(...)``set_sensitive(...)``set_set_scroll_adjustments_signal(...)``set_size_request(...)`

`set_state(...)``set_style(...)``set_temp_icon(...)``set_tooltip_markup(...)``set_tooltip_text(...)``set_tooltip_window(...)``set_ufosition(...)``set_usize(...)``set_visible_window(...)``shape_combine_mask(...)``show(...)``show_all(...)``show_now(...)``size_allocate(...)``size_request(...)``stop_emission(...)``style_get_property(...)``thaw_child_notify(...)``thaw_notify(...)``translate_coordinates(...)``trigger_tooltip_query(...)``unmap(...)``unparent(...)`

unrealize(...)

unset_flags(...)

unset_focus_chain(...)

weak_ref(...)

1.15.2 Properties

Name	Description
<code>__class__</code>	Value: <attribute ' <code>__class__</code> ' of 'object' objects>
<code>__grefcount__</code>	Value: <attribute ' <code>__grefcount__</code> ' of 'gobject.GObject' objects>
<code>allocation</code>	Value: <attribute 'allocation' of 'gtk.Widget' objects>
<code>border_width</code>	Value: <attribute 'border_width' of 'gtk.Container' objects>
<code>child</code>	Value: <attribute 'child' of 'gtk.Bin' objects>
<code>focus_child</code>	Value: <attribute 'focus_child' of 'gtk.Container' objects>
<code>has_focus_chain</code>	Value: <attribute 'has_focus_chain' of 'gtk.Container' objects>
<code>name</code>	Value: <attribute 'name' of 'gtk.Widget' objects>
<code>need_resize</code>	Value: <attribute 'need_resize' of 'gtk.Container' objects>
<code>parent</code>	Value: <attribute 'parent' of 'gtk.Widget' objects>
<code>reallocate_redraws</code>	Value: <attribute 'reallocate_redraws' of 'gtk.Container' objects>
<code>resize_mode</code>	Value: <attribute 'resize_mode' of 'gtk.Container' objects>
<code>saved_state</code>	Value: <attribute 'saved_state' of 'gtk.Widget' objects>
<code>state</code>	Value: <attribute 'state' of 'gtk.Widget' objects>
<code>style</code>	Value: <attribute 'style' of 'gtk.Widget' objects>
<code>window</code>	Value: <attribute 'window' of 'gtk.Widget' objects>

1.15.3 Class Variables

Name	Description
<code>__gtype__</code>	Value: <GType AwnAppletSimple (140009992)>

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