

Mccprefs.mui

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Mccprefs.mui

Super class

[Group.mui](#)

Background

Mccprefs is the base class for all custom class configuration classes. Each configuration class (*.mcp) must be a subclass of Mccprefs.

Mccprefs does some internal house keeping stuff for configuration objects and also offers public methods that subclasses may call to improve their appearance.

Methods

Method	Version
MUIM_Mccprefs_ConfigToGadgets	V11
MUIM_Mccprefs_GadgetsToConfig	V11
MUIM_Mccprefs_RegisterGadget	V20

MUIM_Mccprefs_ConfigToGadgets

NAME

[MUIM_Mccprefs_ConfigToGadgets](#) — V11, 0x80427043

SYNOPSIS

```
DoMethod(obj, MUIM_Mccprefs_ConfigToGadgets, Object *configdata);
```

FUNCTION

This method will be called whenever MUI wants your custom prefs class to transfer configuration values from the configuration to the GUI.

INPUTS

Object *configdata

an instance of Dataspace class which carries all configuration values. Call [MUIM_Dataspace_Find](#) on this object to obtain the configuration values which belong to your class.

SEE ALSO

[MUIM_Mccprefs_GadgetsToConfig](#), [MUIM_Mccprefs_RegisterGadget](#)

MUIM_Mccprefs_GadgetsToConfig

NAME

[MUIM_Mccprefs_GadgetsToConfig](#) — V11, 0x80425242

SYNOPSIS

```
DoMethod(obj, MUIM_Mccprefs_GadgetsToConfig, Object *configdata, Object *originator);
```

FUNCTION

This method will be called whenever MUI wants your custom prefs class to transfer configuration values from the GUI to the configuration.

INPUTS

Object *configdata

an instance of Dataspace class which carries all configuration values. Call [MUIM_Dataspace_Add](#) to add all configuration values which belong to your class and which don't match their default values. Call [MUIM_Dataspace_Remove](#) to remove a configuration value, i.e. if it matches the default value.

SEE ALSO

[MUIM_Mccprefs_ConfigToGadgets](#), [MUIM_Mccprefs_RegisterGadget](#)

MUIM_Mccprefs_RegisterGadget

NAME

[MUIM_Mccprefs_RegisterGadget](#) — V20, 0x80424828

SYNOPSIS

```
DoMethod(obj, MUIM_Mccprefs_RegisterGadget, Object *gadget, ULONG id, ULONG params, CONST_STRPTR title, ULONG attr, Object *label);
```

INPUTS

FUNCTION

Registers a gadget with the MUI custom class preferences system.

Preferences classes usually contain gadgets which are directly related to certain configuration options of your class, i.e. Poppen objects to adjust colors, String objects to adjust fonts, etc. These classes are directly related to a configuration ID value that you use to save their contents in the application's dataspace.

By default, MUI does not know anything about your objects and what they are doing in your preferences class. With MUIM_Mccprefs_RegisterGadget, you can tell MUI which object is related to what configuration ID value. This knowledge helps MUI to improve handling of your gadget.

Since version 20 of muimaster.library, MUI will e.g. add a default popup menu to all registered gadgets. Your object will automatically receive the same functionality as MUI's internal settings, like

"Reset to defaults", "Last Saved", "Restore", "Presets..."

Registering gadgets with MUIM_Mccprefs_RegisterGadget should be done right after the gadget was created.

There's nothing more to be done to add the extra functionality to your gadgets besides registering them with this method. MUI can then automatically perform all the actions above (defaults, last saved, etc.) by altering the configuration dataspace while using the ID value you provided as a filter.

NOTES

Whenever the user selects something from the popup menu, your mcp class might receive the methods MUIM_Mccprefs_ConfigToGadgets and MUIM_Mccprefs_GadgetsToConfig. Anyway, you don't have to implement special treatment for popup menus there. Simply let these methods do what they usually do, i.e. setup your gadget with the configuration values from the dataspace or fill the dataspace with the contents of your gadgets.

Previous custom class examples might use the names like MUIM_Settingsgroup_ConfigToGadgets? and MUIM_Settingsgroup_GadgetsToConfig? instead of their Mccprefs counterparts. Don't be confused, both versions refer to the same values and are identical. However, _Mccprefs_ is the correct term and should be used in new code.

In the rare case that your preferences class is dynamic, i.e. that you delete/recreate configuration gadgets on the fly, you must remember to "unregister" registered gadgets before they are disposed. To unregister, call MUIM_Mccprefs_RegisterGadget with an ID parameter of 0. Usually, your gadgets won't be dynamic, so unregistering is not necessary.

INPUTS

Object *gadget

the object to be registered. Only objects that are directly related to one specific configuration setting are good candidates.

ULONG id

the dataspace configuration ID that this gadget will adjust. Use 0 to unregister.

FUNCTION

ULONG params

number of parameters that follow. set this to allow parsing the additional parameters. Older classes had this documented as "flags" and were forced to set it to 0. Currently 3 additional parameters are defined:

CONST_STRPTR title

the "name" of this gadget. MUI will use that e.g. as title for the popup menu. Can be NULL in which case your popup menu will get a default title. The string is not copied and must remain in memory for the lifetime of your object.

ULONG attr

the attribute that this gadget adjusts. Can be one of MUI's attributes, such as MUIA_String_Contents or MUIA_Numeric_Value. Can also be one of your own attributes in case you adjust with a "self-made" class. The attribute has to be set()able and get()able as well as support notification. MUI will use this attribute during its builtin MUIM_Mccprefs_ConfigToGadgets and MUIM_Mccprefs_GadgetsToConfig methods to read/write your supplied configuration ID in its Dataspace.

Also, MUI will setup a notification on attr to allow for realtime preferences updates. Your application (and objects in its tree) will receive a MUIM_UpdateConfig method with the given ID whenever the gadget is changed.

You should always specify the attribute parameter. If you don't, MUI will try to find out the correct attribute automatically by sending OM_GET to your object with several common attributes such as MUIA_Selected (for checkmarks) or MUIA_String_Contents or MUIA_Numeric_Value. As soon as your object's OM_GET method returns TRUE, the tested attribute will be used. This procedure works correctly in many cases and will make older classes support realtime notification, too.

Object *label

if your gadget has a specific label attached to it (normally a TextObject), pass it here. MUI will try to do fancy things, such as using its MUIA_Text_Contents as popup menu title (when no other title is given). It will also allow the popup menu to work when used on the label itself, not just on the object. Or it could automatically distribute keyboard shortcuts on your prefs page.

EXAMPLE

```
obj DoSuperNew
  fgcolor PopcolorObject End
  bgcolor PopcolorObject End
  font    PopaslObject End

obj

DoMethodobj MUIM_Mccprefs_RegisterGadget
  fgcolor MYCFGID_FGCOLOR

DoMethodobj MUIM_Mccprefs_RegisterGadget
  ggcolor MYCFGID_BGCOLOR

DoMethodobj MUIM_Mccprefs_RegisterGadget
  font MYCFGID_FONT
```

SEE ALSO

[MUIM Mccprefs GadgetsToConfig](#), [MUIM Mccprefs ConfigToGadgets](#)

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[MUI-Autodocs](#)

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