

IMPLEMENTATION DETAILS

Profile Settings

Profile Key	Profile Key Type
USE_SYSTEM_FONT_KEY	Boolean
PROFILE_FONT_KEY	String
PROFILE_USE_THEME_COLORS_KEY	Boolean
PROFILE_FOREGROUND_COLOR_KEY	String
PROFILE_BACKGROUND_COLOR_KEY	String
PROFILE_BOLD_COLOR_SAME_AS_FG_KEY	Boolean
PROFILE_BOLD_COLOR_KEY	String
PROFILE_CURSOR_COLORS_SET_KEY	Boolean
PROFILE_CURSOR_BACKGROUND_COLOR_KEY	String
PROFILE_CURSOR_FOREGROUND_COLOR_KEY	String
PROFILE_HIGHLIGHT_COLORS_SET_KEY	Boolean
PROFILE_HIGHLIGHT_BACKGROUND_COLOR_KEY	String
PROFILE_HIGHLIGHT_FOREGROUND_COLOR_KEY	String
PROFILE_PALETTE_KEY	String
PROFILE_SCROLLBAR_POLICY_KEY	Enum
PROFILE_ENCODING_KEY	String
PROFILE_CJK_UTF8_AMBIGUOUS_WIDTH_KEY	Enum
PROFILE_AUDIBLE_BELL_KEY	Boolean
PROFILE_SCROLL_ON_KEYSTROKE_KEY	Boolean
PROFILE_SCROLL_ON_OUTPUT_KEY	Boolean
PROFILE_SCROLLBACK_LINES_KEY	Int
PROFILE_SCROLLBACK_UNLIMITED_KEY	Boolean
PROFILE_BACKSPACE_BINDING_KEY	Enum
PROFILE_DELETE_BINDING_KEY	Enum
PROFILE_ALLOW_BOLD_KEY	Boolean
PROFILE_CURSOR_BLINK_MODE_KEY	Enum
PROFILE_CURSOR_SHAPE_KEY	Enum
PROFILE_REWRAP_ON_RESIZE_KEY	Boolean
PROFILE_WORD_CHAR_EXCEPTIONS_KEY	String
PROFILE_DEFAULT_SIZE_COLUMNS_KEY	Int
PROFILE_DEFAULT_SIZE_ROWS_KEY	Int

Classes

I have listed down the following information in a high-level context containing the implementation details. The classes, members and their methods may be modified , updated with more functionalities. This is just a high level view of the structure of the work I am going to do.

The backend class that supports profiles is the SettingsList class. This is based off the “TerminalSettingsList” class from gnome-terminal source code. This contains methods for adding, removing and duplicating some item in the SettingsList.

SettingsList contains the path for the internal settings and also the child_schema_id. The uuid’s array contains the list of all the profile’s IDs. Children contain list of each profile ID as the key and the corresponding GSettings(containing all the profile key/values) as the value. The default_uuid contains one entry among the uuids array.

SettingsList class members

```
GSettings Parent  
  
char *path  
char *child_schema_id  
  
char **uuids  
  
char *default_uuid  
  
GHashTable *Children
```

Public Methods List for SettingsList class

```
add_child()  
  
remove_child()  
  
clone_child()  
  
set_default_child()  
  
get_children()
```

We have another class “ProfileList”. Even though this class doesn’t declare any type, its public methods actually manipulate the SettingsList class methods. This class also provides a way to keep two profiles sorted (provides a comparator function).

Public methods List for ProfileList class

new()

profile_compare()

ref_profile_by_uuid()

list_profiles_sorted()