

wox_Xlibrary



Common library

Programmer's guide

Component's user data sheet

Release	Version	Date	Rédacteur	Commentaires
Initial		28 janvier 2023	OG	First version
R1		2 février 2026	OG	Adaptation to wox



from v20R3, for project mode



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Overview

Introduction

The **ogKrolific** component first intent is to manage our licensing system, but it helps the developer too providing some very common methods for all our ogTools suite components.

This documentation gives informations on this library available for you.

All methods « wok_ » are intended for licensing system, and are not documented here. If you are interested with our licensing system, ask us directly.

We cover in this documentation all methods for basic generic needs, with methods beginning with « wox_ », with some exceptions.

Configuration

When you initialise any components with wo_initRegister, the ogKrolific is automatically initialised.

Library subclasses

The sub library classes are

- wok__ and wok_
- wox_app_ For the apps
- wox_num_ Methods for Numerics
- wox_prefs_ Prefs json manager
- wox_sounds_ Sounds manager
- wox_str_ Methods for String
- wox_vj_ Methods for objects vJ



Methods

The library is split into sub methods, depends on wox_xxx_, with xxx into : app, num, prefs, sounds, str, vJ, window.

wox__ and wox_

wox__storage_prefs

Description

This main object is accessible with this method, and stores all the global preferences.

#DECLARE->\$vJ_prefs : Object			
Parameter	Type		Description
vJ	object	↩	Gives back the main prefs object of ogKrolific

Property	Type	Default	Contents
t_name	text	ogKrolific	Component name
t_version	text	2.1.00	Current version
t_lip_app	text	wok	License app name
l_top	number	130	pixels from top as non usable area for Form windows
t_formatDate	text		Format date found based on system language.
prefs_root	text	ogToolsSuite	Root folder for prefs in Document
t_host_name	text		Useful to get an additional folder for preferences path, making all preferences unique for that host.
snd_progress	text	"click_1"	Default sound for progress
snd_warning	text	« starwar_r2d2_07"	Default sound for warning
snd_error	text	"starwar_r2d2_06"	Default sound for error
snd_done	text	"bicycle"	Default sound for done
j_apps	object		Splash screen manager options. See below

j_apps

Property	Type	Default	Contents
l_seconds	num	6	Number of seconds for splash screen for components
l_x	num	0	Initial x for splash screen
l_y	num	prefs.l_top	Initial y for splash screen
l_count_hv	num	5	Barbers count, >0 horizontal, or vertical
l_gap	num	4	Gap between splash screen



Property	Type	Default	Contents
is_always	boolean	false	If true, the splash screen appears on every wo•_initRegister()
is_end_all	boolean	true	If true, all splash screen will be closed synchronised on the last to close.

wox_initRegister

Description

This method initialise the full component. You have to call this method before using any of the other methods. There is no need of any parameters, they are here for compatibility with other wo•_initRegister().

#DECLARE(\$vT_host_name : Text; \$vT_serial : Text)->\$is_serial_ok : Boolean			
Parameter	Type		Description
{\$vT_host_name}	text	→	Host name associated to the serial.
{\$vT_serial}	text	→	Serial of your component.
\$isOk	boolean	↩	True if register successful.



wox_app_

wox_app_prefs_get_path

Description

Based on the `t_name` of your caller and `t_host_name` saved in ogKrolific preferences, it gives back a `cs.folder` on the one to use with methods for preferences. If you give `$is_root` true, then the `t_host_name` is not taken into account.

#DECLARE(\$vJ_app_prefs : Object; \$is_root : Boolean)->\$vJ_path : Object			
Parameter	Type		Description
<code>\$vJ_app_prefs</code>	object	→	Used to collect the caller <code>wo•__storage_prefs.t_name</code>
<code>\$is_root</code>	boolean	→	If true, will force not to use <code>wok__storage_prefs.t_host_name</code>
<code>\$vJ_path</code>	object	↩	<code>cs.folder</code> on <code>prefs</code> folder for that <code>\$vJ_app_prefs</code>

wox_app_set_t_host_name

Description

Set in ogKrolific preferences, the `t_host_name`. If not empty, all prefs for your host and ogToolsSuite components will use this value as a subFolder inside the root `prefs` folder (Documents/ogToolSuite).

#DECLARE(\$vT_host_name : Text)			
Parameter	Type		Description
<code>\$vT_host_name</code>	text	→	Put the value inside <code>ogKrolific.prefs.t_host_name</code> . It must be a valid file name compliant.

wox_num_

Methods for numeric conversions.

wox_num_hexToDec

Description

Giving an hex string, you get back the decimal value of it.

#DECLARE(\$vT_HexValue : Text)->\$vL_DecValue : Integer			
Parameter	Type		Description
<code>\$vT_HexValue</code>	text	→	Hex representation of a number
<code>\$vL_DecValue</code>	longint	↩	Decimal value of the supplied hex representation



wox_prefs__

Methods to manage preferences for all components. Only « .json » files are taken into account.

wox_prefs_choose

Description

Open a menu with all files in the provided \$vJ_path, and gives back \$vJ_file to the selected file. If none selected, \$vJ_file is Null.

The \$is_save option add an item « Choose a file » at first, and if this item is selected, it asks you to enter a filename, and this is the \$vJ_file given back.

#DECLARE(\$vJ_path : Object; \$is_save : Boolean)->\$vJ_file : Object			
Parameter	Type		Description
\$vJ_path	object	→	Optionnel host options. If not given, uses prefs.j_host
\$is_save	boolean	→	Mode choose for save
\$vJ_file	object	↩	True if Build successful.

wox_prefs_load

Description

Parse a json prefs file and check if exists and if version is ok. If not, generate a new object ready for default values.

#DECLARE(\$vJ_pref_file : Object; \$vP_vJ_prefs : Pointer; \$vL_version : Integer)->\$isOk : Boolean			
Parameter	Type		Description
\$vJ_pref_file	object	→	Prefs file to open
\$vP_vJ_prefs	pointer	↔	Pointer to an object to get back the result of the json file.
\$vL_version	longint	→	Version the file must have. If the file does not exist, or if the version stored in the file is lower than the value, a new object is created with the new version property « __version », and isOk is false to make you put the new default values in it.
\$isOk	boolean	↩	True if prefs file loaded properly.

wox_prefs_save

Description

Save a json prefs file.

#DECLARE(\$vJ_pref_file : Object; \$vJ_prefs : Object)			
Parameter	Type		Description
\$vJ_pref_file	object	→	Prefs file to save
\$vJ_prefs	object	→	Pointer to an object to get back the result of the json file.



wox_prefs_windows_get

Description

This will set the position and size for a Form window, based on Form.prefs properties left, top, width, height. When you load preferences file, you are supposed to put it in .prefs object before calling Dialog. This has to be called at your Form On Load event. So this method works with wox_prefs_windows_set.

#DECLARE(\$is_centered : Boolean)			
Parameter	Type		Description
\$is_centered	boolean	→	If true, the left & top are not used and the from window is centred, only the size is made based on width and height.

wox_prefs_windows_set

Description

This will get the position and size of a Form window, and will write back on Form.prefs properties left, top, width, height, updating the .prefs ready for save on the caller. This has to be called at your Form On Unload, or On CloseBox event.

So this method works with wox_prefs_windows_get.

Example of Form call

```
#DECLARE->$isOk : Boolean

var $vT_form : Text
$vT_form:="mng_methods_vars"

var $vJ_pref_file : Object
$vJ_pref_file:=wod_prefs_get_path.file($vT_form+".json")

var $vJ_prefs : Object
$vJ_prefs:=New object
$isOk:=wox_prefs_load($vJ_pref_file; ->$vJ_prefs; 1) // Version, increase to reset
If (Not($isOk))
    $vJ_prefs.method_name:="initial"
    $vJ_prefs.method_colors:=58975 // rgb
End if

var $vJ_form : Object
$vJ_form:=New object
$vJ_form.prefs:=$vJ_prefs

var $vL_formType : Integer
$vL_formType:=Plain_form_window
var $vL_windowRef : Integer
$vL_windowRef:=Open form window($vT_form; $vL_formType; Horizontally centered; Vertically centered)
SET WINDOW TITLE(Current method name; $vL_windowRef)
DIALOG($vT_form; $vJ_form)
CLOSE WINDOW($vL_windowRef)
wox_prefs_save($vJ_pref_file; $vJ_prefs)
$isOk:=(OK=1) // SAVE
```



wox_sounds_

wox_sounds_choose

Description

Based on a given collection, or on what is in the sounds/ folder, this open a menu and gives back the selected sound name in the collection.

#DECLARE(\$vC_sounds : Collection)->\$vT_sound : Text			
Parameter	Type		Description
\$vC_sounds	collection	→	Optionnel collection of sounds. Not given, will use wox_sounds_getFiles
\$vT_sound	text	↩	Sound name to play, or empty if none selected

wox_sounds_getFiles

Description

Gives back all the files in the sounds folder, without extension as they are all supposed to be mp3.

#DECLARE->\$vC_sounds : Collection			
Parameter	Type		Description
\$vC_sounds	collection	↩	All the files in resources/sounds/, without the .mp3 extension

wox_sounds_play

Description

Play the given sound from sounds/ folder. Don't give any extension has it is added as « .mp3 ».

#DECLARE(\$vT_sound : Text)			
Parameter	Type		Description
\$vT_sound	text	→	Sound name, with no extension.

wox_sounds_play_done

wox_sounds_play_error

wox_sounds_play_progress

wox_sounds_play_warning

Description

It plays sound based on wok__storage_prefs, and associated properties. This does a generic call to usual sounds, and the capacity to change the one to use for each of those 4 cases.

wox_sounds_play_random

Description

It plays a random sound from the sounds folder.



wox_sounds_random_get

Description

Based on a given collection, or on what is in the sounds/ folder, this gives back a random sound name found in the collection.

```
#DECLARE($vC_sounds : Collection)->$vT_sound : Text
```

Parameter	Type		Description
\$vC_sounds	collection	→	Optionnel collection of sounds. Not given, will use wox_sounds_getFiles
\$vT_sound	text	↩	Sound name to play



WOX_str_

wox_str_pluralise

Description

Calculate the singular plural for a given word.

#DECLARE(\$vL_Count : Integer; \$vT_Singular : Text; \$vT_Plural : Text)->\$vT_String : Text			
Parameter	Type		Description
\$vL_Count	longint	→	how many value to determine plural
\$vT_Singular	text	→	Singular form of word
{ \$vT_Plural }	text	→	Optional plural form of word. If not given, an « s » is added for plural.
\$vT_String	text	↩	Resulting string

wox_str_squeeze

Description

Calculate the singular plural for a given word.

Removes whitespace (eg. spaces, tabs, carriage returns) from the beginning and end of the supplied string.

Compresses whitespace within the string to a single character. The character chosen is the lowest index in the list
Carriage return ; Tab ; LF ASCII code ; space ; 160 (non breaking space). e.g. <>SP+<>CR+<>TB is replaced with <>CR

#DECLARE(\$vT_Input : Text)->\$vT_Output : Text			
Parameter	Type		Description
\$vT_Input	text	→	how many value to determine plural
\$vT_Output	text	↩	Resulting string



WOX_vJ_

wox_vJ_overload

Description

If no added text properties are given, a single level copy is made from source to target.
Otherwise, only the existing properties of the given parameters are copied if exist.

#DECLARE(\$vJ_source : Object; \$vJ_target : Object {;\$3+})			
Parameter	Type		Description
\$vJ_source	object	→	Source for overload
\$vJ_target	object	→	Target to overload
\${3} +	text	→	List of properties to overload

wox_vJ_overload_inex

Description

From source, add at a single level all the properties that do not exist in target.

#DECLARE(\$vJ_source : Object; \$vJ_target : Object)			
Parameter	Type		Description
\$vJ_source	object	→	Source for overload
\$vJ_target	object	→	Target to overload

wox_vJ_overloads

Description

If no added text properties are given, a recursive levels copy is made from source to target.
Otherwise, it acts as wox_vJ_overload with properties.

#DECLARE(\$vJ_source : Object; \$vJ_target : Object {;\$3+})			
Parameter	Type		Description
\$vJ_source	object	→	Source for overload
\$vJ_target	object	→	Target to overload
\${3} +	text	→	List of properties to overload



wox_vJ_overloads_back

Description

Works like wox_vJ_overloads in reverse. Just for a better reading, you can use wox_vJ_overloads and exchanging the two first parameters.

#DECLARE(\$vJ_target : Object; \$vJ_source : Object {;\$3+})			
Parameter	Type	Description	
\$vJ_target	object	→	Target to overload
\$vJ_source	object	→	Source for overload
\${3} +	text	→	List of properties to overload

wox_vJ_overloads_exist

Description

It is a recursive levels copy for all properties in source, only for existing properties in target.

#DECLARE(\$vJ_source : Object; \$vJ_target : Object)			
Parameter	Type	Description	
\$vJ_source	object	→	Source for overload
\$vJ_target	object	→	Target to overload

wox_vJ_updates_exist

Description

It is a recursive levels copy for all properties in target, that exist in source. Source is without recursivity. This allows to set some properties given in source to all targets recursively existing in target.

#DECLARE(\$vJ_source : Object; \$vJ_target : Object)			
Parameter	Type	Description	
\$vJ_source	object	→	Source for overload
\$vJ_target	object	→	Target to overload

Thanks

Thanks to Patrick Emanuel for our long-term collaboration and help during the tests.

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