TinyWindow

1.3.8

Generated by Doxygen 1.8.11

Contents

1	Tiny	/Windov	W		1
2		3			
	2.1	Class	List		3
3	File	Index			5
	3.1	File Lis	st		5
4	Clas	ss Docu	mentation	1	7
	4.1	window	wManager	::window_t Struct Reference	7
		4.1.1	Detailed	Description	8
		4.1.2	Construc	ctor & Destructor Documentation	8
			4.1.2.1	window_t(const char *name=nullptr, unsigned int iD=0, unsigned int color bits=0, unsigned int depthBits=0, unsigned int stencilBits=0, bool should Close=false, tinyWindowState_t currentState=tinyWindowState_t::NORMAL, std::function< void(unsigned int, tinyWindowKeyState_t)> keyEvent=nullptr, std::function< void(tinyWindowMouseButton_t, tinyWindowButtonState_t)> mouseButtonEvent=nullptr, std::function< void(tinyWindowMouseScroll_t)> mouseWheelEvent=nullptr, std::function< void(void)> destroyedEvent=nullptr, std::function< void(void)> minimizedEvent=nullptr, std::function< void(void)> minimizedEvent=nullptr, std::function< void(bool)> focusEvent=nullptr, std::function< void(unsigned int, unsigned int)> movedEvent=nullptr, std::function< void(unsigned int, unsigned int, unsigned int, unsigned int)> mouseMove void(unsigned int, unsigned int, unsigned int, unsigned int)> mouseMove void(unsigned int, unsigned int, unsigned int, unsigned int)> mouseMove void(unsigned int, unsigned int, unsigned int, unsigned int)> mouseMove void(unsigned int, unsigned int, unsigned int, unsigned int)> mouseMove void(unsigned int, unsigned int, unsigned int, unsigned int)> mouseMove void(unsigned int, unsigned int, unsigned int, unsigned int)> mouseMove void(unsigned int, unsigned int, unsigned int, unsigned int)> mouseMove void(unsigned int, unsigned int, unsigned int, unsigned int)> mouseMove void(unsigned int, unsigned int, unsigned int, unsigned int)> mouseMove void(unsigned int, unsigned int, unsigned int, unsigned int)> mouseMove void(unsigned int, unsigned int, unsigned int, unsigned int)> mouseMove void(unsigned int, unsigned int, unsigned int, unsigned int)> mouseMove void(unsigned int, unsigned int, unsigned int, unsigned int)> mouseMove void(unsigned int, unsigned	0
		4.1.3	Member	Event=nullptr)	9
			4.1.3.1	AtomActionClose	9
			4.1.3.2	AtomActionMaximizeHorz	9
			4.1.3.3	AtomActionMaximizeVert	9
			4.1.3.4	AtomActionMinimize	9
			4.1.3.5	AtomActionResize	10

iv CONTENTS

4.1.3.6	AtomActionShade	10
4.1.3.7	AtomActive	10
4.1.3.8	AtomAllowedActions	10
4.1.3.9	AtomCardinal	10
4.1.3.10	AtomClose	10
4.1.3.11	AtomDemandsAttention	10
4.1.3.12	AtomDesktopGeometry	11
4.1.3.13	AtomFocused	11
4.1.3.14	AtomFullScreen	11
4.1.3.15	AtomHidden	11
4.1.3.16	AtomHints	11
4.1.3.17	AtomIcon	11
4.1.3.18	AtomMaxHorz	12
4.1.3.19	AtomMaxVert	12
4.1.3.20	AtomState	12
4.1.3.21	AtomWindowType	12
4.1.3.22	AtomWindowTypeDesktop	12
4.1.3.23	AtomWindowTypeNormal	12
4.1.3.24	AtomWindowTypeSplash	12
4.1.3.25	attributes	12
4.1.3.26	colorBits	13
4.1.3.27	context	13
4.1.3.28	contextCreated	13
4.1.3.29	currentState	13
4.1.3.30	currentWindowStyle	13
4.1.3.31	decorators	13
4.1.3.32	depthBits	14
4.1.3.33	destroyedEvent	14
4.1.3.34	focusEvent	14
4.1.3.35	iD	14

CONTENTS

		4.1.3.36	inFocus	14
		4.1.3.37	initialized	14
		4.1.3.38	isCurrentContext	15
		4.1.3.39	keyEvent	15
		4.1.3.40	keys	15
		4.1.3.41	maximizedEvent	15
		4.1.3.42	minimizedEvent	15
		4.1.3.43	mouseButton	15
		4.1.3.44	mouseButtonEvent	15
		4.1.3.45	mouseMoveEvent	16
		4.1.3.46	mousePosition	16
		4.1.3.47	mouseWheelEvent	16
		4.1.3.48	movedEvent	16
		4.1.3.49	name	16
		4.1.3.50	position	16
		4.1.3.51	resizeEvent	17
		4.1.3.52	resolution	17
		4.1.3.53	setAttributes	17
		4.1.3.54	shouldClose	17
		4.1.3.55	stencilBits	17
		4.1.3.56	visualInfo	17
		4.1.3.57	windowHandle	18
4.2	windov	vManager	Class Reference	18
	4.2.1	Detailed	Description	21
	4.2.2	Construc	tor & Destructor Documentation	22
		4.2.2.1	windowManager()	22
		4.2.2.2	~windowManager(void)	23
	4.2.3	Member	Function Documentation	23
		4.2.3.1	AddWindow(const char *windowName, unsigned int width=DEFAULT_WIND OW_WIDTH, unsigned int height=DEFAULT_WINDOW_HEIGHT, unsigned int colourBits=8, unsigned int depthBits=8, unsigned int stencilBits=8)	23

vi

4.2.3.2	DisableWindowDecoratorByIndex(unsigned int windowIndex, unsigned int decorators)	24
4.2.3.3	DisableWindowDecoratorByName(const char *windowName, unsigned int decorators)	25
4.2.3.4	DoesExistByIndex(unsigned int windowIndex)	26
4.2.3.5	DoesExistByName(const char *windowName)	27
4.2.3.6	EnableWindowDecoratorsByIndex(unsigned int windowIndex, unsigned int decorators)	29
4.2.3.7	EnableWindowDecoratorsByName(const char *windowName, unsigned int decorators)	30
4.2.3.8	FocusWindowByIndex(unsigned int windowIndex, bool newState)	31
4.2.3.9	FocusWindowByName(const char *windowName, bool newState)	32
4.2.3.10	GetInstance(void)	33
4.2.3.11	GetMousePositionInScreen(unsigned int &x, unsigned int &y)	34
4.2.3.12	GetMousePositionInScreen(void)	34
4.2.3.13	GetMousePositionInWindowByIndex(unsigned int windowIndex, unsigned int &x, unsigned int &y)	35
4.2.3.14	GetMousePositionInWindowByIndex(unsigned int windowIndex)	35
4.2.3.15	GetMousePositionInWindowByName(const char *windowName, unsigned int &x, unsigned int &y)	36
4.2.3.16	GetMousePositionInWindowByName(const char *windowName)	37
4.2.3.17	GetNumWindows(void)	37
4.2.3.18	GetScreenResolution(void)	38
4.2.3.19	GetScreenResolution(unsigned int &width, unsigned int &Height)	39
4.2.3.20	GetWindowByIndex(unsigned int windowIndex)	40
4.2.3.21	GetWindowByName(const char *windowName)	41
4.2.3.22	GetWindowIndexByName(const char *windowName)	43
4.2.3.23	GetWindowlsFullScreenByIndex(unsigned int windowlndex)	44
4.2.3.24	GetWindowIsFullScreenByName(const char *windowName)	45
4.2.3.25	GetWindowIsInFocusByIndex(unsigned int windowIndex)	46
4.2.3.26	GetWindowIsInFocusByName(const char *windowName)	46
4.2.3.27	GetWindowIsMaximizedByIndex(unsigned int windowIndex)	47
4.2.3.28	GetWindowIsMaximizedByName(const char *windowName)	48

CONTENTS vii

4.2.3.29	GetWindowIsMinimizedByIndex(unsigned int windowIndex)	48
4.2.3.30	GetWindowIsMinimizedByName(const char *windowName)	49
4.2.3.31	GetWindowNameByIndex(unsigned int windowIndex)	50
4.2.3.32	GetWindowPositionByIndex(unsigned int windowIndex, unsigned int &x, unsigned int &y)	50
4.2.3.33	GetWindowPositionByIndex(unsigned int windowIndex)	51
4.2.3.34	GetWindowPositionByName(const char *windowName, unsigned int &x, unsigned int &y)	51
4.2.3.35	GetWindowPositionByName(const char *windowName)	52
4.2.3.36	GetWindowResolutionByIndex(unsigned int windowIndex, unsigned int &width, unsigned int &height)	53
4.2.3.37	GetWindowResolutionByIndex(unsigned int windowIndex)	54
4.2.3.38	GetWindowResolutionByName(const char *windowName, unsigned int &width, unsigned int &height)	54
4.2.3.39	GetWindowResolutionByName(const char *windowName)	55
4.2.3.40	GetWindowShouldCloseByIndex(unsigned int windowIndex)	56
4.2.3.41	GetWindowShouldCloseByName(const char *windowName)	57
4.2.3.42	Initialize(void)	57
4.2.3.43	IsInitialized(void)	58
4.2.3.44	IsValid(const char *stringParameter)	59
4.2.3.45	MakeWindowCurrentContextByIndex(unsigned int windowIndex)	60
4.2.3.46	MakeWindowCurrentContextByName(const char *windowName)	61
4.2.3.47	MaximizeWindowByIndex(unsigned int windowIndex, bool newState)	62
4.2.3.48	MaximizeWindowByName(const char *windowName, bool newState)	63
4.2.3.49	MinimizeWindowByIndex(unsigned int windowIndex, bool newState)	64
4.2.3.50	MinimizeWindowByName(const char *windowName, bool newState)	64
4.2.3.51	Platform_DisableWindowDecorators(window_t *window, unsigned int decorators)	65
4.2.3.52	Platform_EnableWindowDecorators(window_t *window, unsigned int decorators)	67
4.2.3.53	Platform_FocusWindow(window_t *window, bool newState)	69
4.2.3.54	Platform_InitializeGL(window_t *window)	69
4.2.3.55	Platform_InitializeWindow(window_t *window)	70
4.2.3.56	Platform_MakeCurrentContext(window_t *window)	71

viii CONTENTS

4.2.3.57	Platform_MaximizeWindow(window_t *window, bool newState)	71
4.2.3.58	Platform_MinimizeWindow(window_t *window, bool newState)	72
4.2.3.59	Platform_RestoreWindow(window_t *window)	73
4.2.3.60	Platform_SetFullScreen(window_t *window)	74
4.2.3.61	Platform_SetMousePositionInWindow(window_t *window, unsigned int x, unsigned int y)	75
4.2.3.62	Platform_SetWindowPosition(window_t *window, unsigned int x, unsigned int y)	76
4.2.3.63	Platform_SetWindowResolution(window_t *window)	76
4.2.3.64	Platform_SetWindowStyle(window_t *window, tinyWindowStyle_t windowStyle) .	77
4.2.3.65	Platform_SetWindowTitleBar(window_t *window, const char *newTitle)	79
4.2.3.66	Platform_SwapBuffers(window_t *window)	79
4.2.3.67	PollForEvents(void)	80
4.2.3.68	RemoveWindowByIndex(unsigned int windowIndex)	81
4.2.3.69	RemoveWindowByName(const char *windowName)	82
4.2.3.70	RestoreWindowByIndex(unsigned int windowIndex)	82
4.2.3.71	RestoreWindowByName(const char *windowName)	83
4.2.3.72	SetFullScreenByIndex(unsigned int windowIndex, bool newState)	84
4.2.3.73	SetFullScreenByName(const char *windowName, bool newState)	84
4.2.3.74	SetMousePositionInScreen(unsigned int x, unsigned int y)	85
4.2.3.75	SetMousePositionInWindowByIndex(unsigned int windowIndex, unsigned int x, unsigned int y)	86
4.2.3.76	SetMousePositionInWindowByName(const char *windowName, unsigned int x, unsigned int y)	86
4.2.3.77	SetWindowlconByIndex(void)	87
4.2.3.78	SetWindowIconByName(void)	88
4.2.3.79	SetWindowOnDestroyedByIndex(unsigned int windowIndex, std::function <void(void)> onDestroyed)</void(void)>	89
4.2.3.80	SetWindowOnDestroyedByName(const char *windowName, std::function < void(void) > onDestroyed)	89
4.2.3.81	SetWindowOnFocusByIndex(unsigned int windowIndex, std::function < void(bool) > onFocus)	90
4.2.3.82	SetWindowOnFocusByName(const char *windowName, std::function< void(bool)> onFocus)	91

CONTENTS

.2.3.83	$SetWindowOnKeyEventByIndex (unsigned int windowIndex, std::function < void (unsigned int, tinyWindowKeyState_t) > onKey) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	91
.2.3.84	$SetWindowOnKeyEventByName(const char *windowName, std::function < void(unsigned int, tinyWindowKeyState_t) > onKey)$	92
.2.3.85	SetWindowOnMaximizedByIndex(unsigned int windowIndex, std::function< void(void)> onMaximized)	93
.2.3.86	SetWindowOnMaximizedByName(const char *windowName, std::function< void(void)> onMaximized)	93
.2.3.87	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	94
.2.3.88	SetWindowOnMinimizedByName(const char *windowName, std::function< void(void)> onMinimized)	95
.2.3.89	$SetWindowOnMouseButtonEventByIndex(unsigned int windowIndex, std \hookleftarrow ::function< void(tinyWindowMouseButton_t, tinyWindowButtonState_t)> on \hookleftarrow MouseButton)$	95
.2.3.90	$SetWindowOnMouseButtonEventByName(const char *windowName, std $\leftarrow :: function < void(tinyWindowMouseButton_t, tinyWindowButtonState_t) > on $\leftarrow MouseButton)$	96
.2.3.91	$SetWindowOnMouseMoveByIndex (unsigned\ \ int\ \ windowIndex,\ \ std::function < void (unsigned\ int,\ unsigned\ int,\ unsigned\ int) > onMouseMove) \ \ .$	97
.2.3.92	$SetWindowOnMouseMoveByName(const_char_*windowName,_std::function < void(unsigned int, unsigned int, unsigned int, unsigned int) > onMouseMove) . .$	98
.2.3.93	$SetWindowOnMouseWheelEventByIndex(unsigned int windowIndex, std \hookleftarrow :: function < void(tinyWindowMouseScroll_t) > onMouseWheel)$	98
.2.3.94	$SetWindowOnMouseWheelEventByName(const char *windowName, std $\leftarrow :: function < void(tinyWindowMouseScroll_t) > onMouseWheel)$	99
.2.3.95	SetWindowOnMovedByIndex(unsigned int windowIndex, std::function < void(unsigned int, unsigned int) > onMoved)	100
.2.3.96	SetWindowOnMovedByName(const char *windowName, std::function< void(unsigned int, unsigned int)> onMoved)	100
.2.3.97	SetWindowOnResizeByIndex(unsigned int windowIndex, std::function <void(unsigned int)="" int,="" unsigned=""> onResize)</void(unsigned>	101
.2.3.98	SetWindowOnResizeByName(const char *windowName, std::function< void(unsigned int, unsigned int)> onResize)	102
.2.3.99	SetWindowPositionByIndex(unsigned int windowIndex, unsigned int x, unsigned int y)	102
.2.3.100	SetWindowPositionByName(const char *windowName, unsigned int x, unsigned int y)	103
.2.3.101	SetWindowResolutionByIndex(unsigned int windowIndex, unsigned int width, unsigned int height)	104

CONTENTS

	4.2.3.102	SetWindowResolutionByName(const char *windowName, unsigned int width, unsigned int height)	105
	4.2.3.103	SetWindowStyleByIndex(unsigned int windowIndex, tinyWindowStyle_t window← Style)	105
	4.2.3.104	SetWindowStyleByName(const char *windowName, tinyWindowStyle_← t windowStyle)	106
	4.2.3.105	SetWindowTitleBarByIndex(unsigned int windowIndex, const char *newName) .	107
	4.2.3.106	SetWindowTitleBarByName(const char *windowName, const char *newTitle)	108
	4.2.3.107	ShutDown(void)	108
	4.2.3.108	ShutdownWindow(window_t *window)	109
	4.2.3.109	WaitForEvents(void)	110
	4.2.3.110	WindowExists(unsigned int windowIndex)	111
	4.2.3.111	WindowGetKeyByIndex(unsigned int windowIndex, unsigned int key)	111
	4.2.3.112	WindowGetKeyByName(const char *windowName, unsigned int key)	112
	4.2.3.113	WindowSwapBuffersByIndex(unsigned int windowIndex)	113
	4.2.3.114	WindowSwapBuffersByName(const char *windowName)	114
1.2.4	Member I	Data Documentation	114
	4.2.4.1	instance	114
	4.2.4.2	isInitialized	114
	4.2.4.3	screenMousePosition	115
	4.2.4.4	screenResolution	115
	4.2.4.5	windowList	115

CONTENTS xi

5	File	Docum	entation		117
	5.1	Examp	le/CMakel	Files/3.4.2/CompilerIdCXX/CMakeCXXCompilerId.cpp File Reference	117
		5.1.1	Macro D	efinition Documentation	117
			5.1.1.1	ARCHITECTURE_ID	117
			5.1.1.2	COMPILER_ID	117
			5.1.1.3	DEC	118
			5.1.1.4	HEX	118
			5.1.1.5	PLATFORM_ID	118
			5.1.1.6	STRINGIFY	118
			5.1.1.7	STRINGIFY_HELPER	118
		5.1.2	Function	Documentation	118
			5.1.2.1	main(int argc, char *argv[])	118
		5.1.3	Variable	Documentation	119
			5.1.3.1	info_arch	119
			5.1.3.2	info_compiler	119
			5.1.3.3	info_language_dialect_default	119
			5.1.3.4	info_platform	119
	5.2	Examp	le/CMake	Files/feature_tests.cxx File Reference	119
		5.2.1	Function	Documentation	120
			5.2.1.1	main(int argc, char **argv)	120
		5.2.2	Variable	Documentation	120
			5.2.2.1	features	120
	5.3	Examp	le/Exampl	e.cpp File Reference	120
		5.3.1	Function	Documentation	121
			5.3.1.1	handleKeyPresses(unsigned int key, tinyWindowKeyState_t keyState)	121
			5.3.1.2	main()	121
	5.4	Include	e/TinyWind	dow.h File Reference	122
		5.4.1	Enumera	tion Type Documentation	124
			5.4.1.1	tinyWindowButtonState_t	124
			5.4.1.2	tinyWindowDecorator_t	125

xii CONTENTS

		5.4.1.3	tinyWindowError_t	125
		5.4.1.4	tinyWindowKey_t	126
		5.4.1.5	tinyWindowKeyState_t	128
		5.4.1.6	tinyWindowMouseButton_t	129
		5.4.1.7	tinyWindowMouseScroll_t	129
		5.4.1.8	tinyWindowState_t	129
		5.4.1.9	tinyWindowStyle_t	130
	5.4.2	Function	Documentation	130
		5.4.2.1	TinyWindow_PrintErrorMessage(const tinyWindowError_t errorNumber)	130
	5.4.3	Variable	Documentation	132
		5.4.3.1	DEFAULT_WINDOW_HEIGHT	132
		5.4.3.2	DEFAULT_WINDOW_WIDTH	133
		5.4.3.3	LINUX_DECORATOR	133
		5.4.3.4	LINUX_FUNCTION	133
5.5	READI	ME.md File	e Reference	133
Index				135

Chapter 1

TinyWindow

a cross platform single header window management API

2 TinyWindow

Chapter 2

Class Index

- 4	-			
2.1	(' '	ass	ш	ct
Z . I	- U	เดออ	_	31

Here are the classes, structs, unions and interfaces with brief descriptions:	
windowManager::window_t	•

4 Class Index

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

Example/Example.cpp							 	. ?'
Example/CMakeFiles/feature_tests.cxx							 	. ?'
Example/CMakeFiles/3.4.2/CompilerIdCXX/CMakeCXXCompilerId.cpp							 	. ?'
Include/TinyWindow.h							 	. ?'

6 File Index

Chapter 4

Class Documentation

4.1 windowManager::window_t Struct Reference

Public Member Functions

• window_t (const char *name=nullptr, unsigned int iD=0, unsigned int colorBits=0, unsigned int depthBits=0, unsigned int stencilBits=0, bool shouldClose=false, tinyWindowState_t currentState=tinyWindowState_
t::NORMAL, std::function< void(unsigned int, tinyWindowKeyState_t)> keyEvent=nullptr, std::function<
void(tinyWindowMouseButton_t, tinyWindowButtonState_t)> mouseButtonEvent=nullptr, std::function<
void(tinyWindowMouseScroll_t)> mouseWheelEvent=nullptr, std::function< void(void)> destroyed
Event=nullptr, std::function< void(void)> maximizedEvent=nullptr, std::function< void(void)> minimized
Event=nullptr, std::function< void(bool)> focusEvent=nullptr, std::function< void(unsigned int, unsigned int)> resizeEvent=nullptr, std::function<
void(unsigned int, unsigned int, unsigned int)> mouseMoveEvent=nullptr)

Public Attributes

- const char * name
- unsigned int iD
- · int colorBits
- · int depthBits
- · int stencilBits
- tinyWindowKeyState_t keys [KEY_LAST]
- tinyWindowButtonState t mouseButton [(unsigned int) tinyWindowMouseButton t::LAST]
- unsigned int resolution [2]
- unsigned int position [2]
- unsigned int mousePosition [2]
- · bool shouldClose
- bool inFocus
- · bool initialized
- · bool contextCreated
- bool isCurrentContext
- tinyWindowState_t currentState
- unsigned int currentWindowStyle
- std::function< void(unsigned int, tinyWindowKeyState_t)> keyEvent
- std::function< void(tinyWindowMouseButton t, tinyWindowButtonState t)> mouseButtonEvent
- $\bullet \ \, std:: function < void (tiny Window Mouse Scroll_t) > mouse Wheel Event$

- std::function< void(void)> destroyedEvent
- std::function< void(void)> maximizedEvent
- std::function< void(void)> minimizedEvent
- std::function< void(bool)> focusEvent
- std::function< void(unsigned int, unsigned int)> movedEvent
- std::function< void(unsigned int, unsigned int)> resizeEvent
- std::function< void(unsigned int, unsigned int, unsigned int, unsigned int)> mouseMoveEvent
- · Window windowHandle
- GLXContext context
- XVisualInfo * visualInfo
- int * attributes
- XSetWindowAttributes setAttributes
- unsigned int decorators
- Atom AtomState
- · Atom AtomHidden
- Atom AtomFullScreen
- Atom AtomMaxHorz
- Atom AtomMaxVert
- Atom AtomClose
- Atom AtomActive
- Atom AtomDemandsAttention
- Atom AtomFocused
- · Atom AtomCardinal
- Atom AtomIcon
- Atom AtomHints
- Atom AtomWindowType
- Atom AtomWindowTypeDesktop
- Atom AtomWindowTypeSplash
- Atom AtomWindowTypeNormal
- Atom AtomAllowedActions
- Atom AtomActionResize
- Atom AtomActionMinimize
- · Atom AtomActionShade
- Atom AtomActionMaximizeHorz
- Atom AtomActionMaximizeVert
- Atom AtomActionClose
- Atom AtomDesktopGeometry

4.1.1 Detailed Description

Definition at line 2292 of file TinyWindow.h.

4.1.2 Constructor & Destructor Documentation

Definition at line 2374 of file TinyWindow.h.

References colorBits, contextCreated, currentState, currentWindowStyle, DEFAULT, depthBits, iD, initialized, name, shouldClose, and stencilBits.

```
2383
2384
                 this->name = name:
                 this \rightarrow iD = iD;
                 this->colorBits = colorBits;
2387
                 this->depthBits = depthBits;
2388
                 this->stencilBits = stencilBits;
                 this->shouldClose = shouldClose;
2389
2390
                 this->currentState = currentState;
2391
2392
                 this->keyEvent = keyEvent;
2393
                 this->mouseButtonEvent = mouseButtonEvent;
                 this->mouseWheelEvent = mouseWheelEvent;
2394
                 this->destroyedEvent = destroyedEvent;
this->maximizedEvent = maximizedEvent;
2395
2396
2397
                 this->minimizedEvent = minimizedEvent;
2398
                 this->focusEvent = focusEvent;
                 this->movedEvent = movedEvent;
2399
2400
                 this->resizeEvent = resizeEvent;
2401
                 this->mouseMoveEvent = mouseMoveEvent;
2402
2403
                 initialized = false;
                 contextCreated = false;
2404
2405
                 currentWindowStyle = (unsigned int)
      tinyWindowStyle_t::DEFAULT;
2406
2409 #endif
```

4.1.3 Member Data Documentation

4.1.3.1 Atom windowManager::window_t::AtomActionClose

Atom for allowing the window to be closed

Definition at line 2369 of file TinyWindow.h.

4.1.3.2 Atom windowManager::window_t::AtomActionMaximizeHorz

Atom for allowing the window to be maximized horizontally

Definition at line 2367 of file TinyWindow.h.

4.1.3.3 Atom windowManager::window_t::AtomActionMaximizeVert

Atom for allowing the window to be maximized vertically

Definition at line 2368 of file TinyWindow.h.

4.1.3.4 Atom windowManager::window_t::AtomActionMinimize

Atom for allowing the window to be minimized

Definition at line 2365 of file TinyWindow.h.

4.1.3.5 Atom windowManager::window_t::AtomActionResize
Atom for allowing the window to be resized
Definition at line 2364 of file TinyWindow.h.
4.1.3.6 Atom windowManager::window_t::AtomActionShade
Atom for allowing the window to be shaded
Definition at line 2366 of file TinyWindow.h.
4.1.3.7 Atom windowManager::window_t::AtomActive
Atom for the active window
Definition at line 2351 of file TinyWindow.h.
4.1.3.8 Atom windowManager::window_t::AtomAllowedActions
Atom for allowed window actions
Definition at line 2363 of file TinyWindow.h.
4.1.3.9 Atom windowManager::window_t::AtomCardinal
Atom for cardinal coordinates
Definition at line 2354 of file TinyWindow.h.
4.1.3.10 Atom windowManager::window_t::AtomClose
Atom for closing the window
Atom for closing the window
Atom for closing the window Definition at line 2350 of file TinyWindow.h.

4.1.3.12 Atom windowManager::window_t::AtomDesktopGeometry

Atom for Desktop Geometry

Definition at line 2371 of file TinyWindow.h.

Referenced by windowManager::AddWindow(), windowManager::DisableWindowDecoratorByIndex(), window ← $Manager:: Disable Window Decorator By Name (), \quad window Manager:: Enable Window Decorator SBy Index (), \quad window We window Decorator SBy Index (), \quad window We window Manager:: Disable Window Decorator SBy Index (), \quad window We window Manager:: Disable Window Decorator SBy Index (), \quad window We window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Decorator SBy Index (), \quad window Manager:: Disable Window Manager:: Disab$ Manager::EnableWindowDecoratorsByName(), windowManager::FocusWindowByIndex(), windowManager ← ::FocusWindowByName(), windowManager::MakeWindowCurrentContextByIndex(), windowManager::Make ← WindowCurrentContextByName(), windowManager::MaximizeWindowByIndex(), windowManager::Maximize ← WindowByName(), windowManager::MinimizeWindowByIndex(), windowManager::MinimizeWindowByName(), windowManager::RestoreWindowByIndex(), windowManager::RestoreWindowByName(), windowManager← windowManager::SetFullScreenByName(), ::SetFullScreenByIndex(), windowManager::SetMousePosition← InWindowByIndex(), windowManager::SetMousePositionInWindowByName(), windowManager::SetWindow← PositionByIndex(), windowManager::SetWindowPositionByName(), windowManager::SetWindowResolutionBy ← Index(), windowManager::SetWindowResolutionByName(), windowManager::SetWindowStyleByIndex(), window← Manager::SetWindowStyleByName(), windowManager::SetWindowTitleBarByIndex(), windowManager::Set ← WindowTitleBarByName(), windowManager::WindowSwapBuffersByIndex(), and windowManager::WindowSwap← BuffersByName().

4.1.3.13 Atom windowManager::window_t::AtomFocused

Atom for the focused state of the window

Definition at line 2353 of file TinyWindow.h.

4.1.3.14 Atom windowManager::window_t::AtomFullScreen

Atom for the full screen state of the window

Definition at line 2347 of file TinyWindow.h.

4.1.3.15 Atom windowManager::window_t::AtomHidden

Atom for the current hidden state of the window

Definition at line 2346 of file TinyWindow.h.

4.1.3.16 Atom windowManager::window_t::AtomHints

Atom for the window decorations

Definition at line 2356 of file TinyWindow.h.

4.1.3.17 Atom windowManager::window_t::AtomIcon

Atom for the icon of the window

Definition at line 2355 of file TinyWindow.h.

4.1.3.18 Atom windowManager::window_t::AtomMaxHorz

Atom for the maximized horizontally state of the window

Definition at line 2348 of file TinyWindow.h.

4.1.3.19 Atom windowManager::window_t::AtomMaxVert

Atom for the maximized vertically state of the window

Definition at line 2349 of file TinyWindow.h.

4.1.3.20 Atom windowManager::window_t::AtomState

Atom for the state of the window

Definition at line 2345 of file TinyWindow.h.

4.1.3.21 Atom windowManager::window_t::AtomWindowType

Atom for the type of window

Definition at line 2358 of file TinyWindow.h.

4.1.3.22 Atom windowManager::window_t::AtomWindowTypeDesktop

Atom for the desktop window type

Definition at line 2359 of file TinyWindow.h.

4.1.3.23 Atom windowManager::window_t::AtomWindowTypeNormal

Atom for the normal splash screen window type

Definition at line 2361 of file TinyWindow.h.

4.1.3.24 Atom windowManager::window_t::AtomWindowTypeSplash

Atom for the splash screen window type

Definition at line 2360 of file TinyWindow.h.

 $\textbf{4.1.3.25} \quad int*\ windowManager::window_t::attributes$

Attributes of the window. RGB, depth, stencil, etc

Definition at line 2339 of file TinyWindow.h.

4.1.3.26 int windowManager::window_t::colorBits

color format of the window. (defaults to 32 bit color)

Definition at line 2296 of file TinyWindow.h.

Referenced by windowManager::AddWindow(), and window_t().

4.1.3.27 GLXContext windowManager::window_t::context

The handle to the GLX rendering context

Definition at line 2337 of file TinyWindow.h.

4.1.3.28 bool windowManager::window_t::contextCreated

Whether the OpenGL context has been successfully created

Definition at line 2308 of file TinyWindow.h.

Referenced by windowManager::Platform_InitializeGL(), and window_t().

4.1.3.29 tinyWindowState t windowManager::window_t::currentState

The current state of the window. these states include Normal, Minimized, Maximized and Full screen

Definition at line 2311 of file TinyWindow.h.

Referenced by windowManager::GetWindowIsFullScreenByIndex(), windowManager::GetWindowIsFullScreenBy \leftarrow Name(), windowManager::GetWindowIsMaximizedByIndex(), windowManager::GetWindowIsMaximizedByName(), windowManager::GetWindowIsMinimizedByName(), windowManager::GetWindowIsMinimizedByName(), window \leftarrow Manager::Platform_MaximizeWindow(), windowManager::SetFull \leftarrow ScreenByIndex(), windowManager::SetFullScreenByName(), and window_t().

4.1.3.30 unsigned int windowManager::window_t::currentWindowStyle

The current style of the window

Definition at line 2312 of file TinyWindow.h.

Referenced by windowManager::Platform_DisableWindowDecorators(), windowManager::Platform_Enable \leftarrow WindowDecorators(), and window_t().

4.1.3.31 unsigned int windowManager::window_t::decorators

Enabled window decorators

Definition at line 2341 of file TinyWindow.h.

4.1.3.32 int windowManager::window_t::depthBits

Size of the Depth buffer. (defaults to 8 bit depth)

Definition at line 2297 of file TinyWindow.h.

Referenced by windowManager::AddWindow(), and window_t().

4.1.3.33 std::function<void(void)> windowManager::window_t::destroyedEvent

This is the callback to be used when the window has been closed in a non-programmatic fashion

Definition at line 2317 of file TinyWindow.h.

4.1.3.34 std::function<void(bool)> windowManager::window_t::focusEvent

This is the callback to be used when the window has been given focus in a non-programmatic fashion

Definition at line 2320 of file TinyWindow.h.

4.1.3.35 unsigned int windowManager::window_t::iD

ID of the Window. (where it belongs in the window manager)

Definition at line 2295 of file TinyWindow.h.

Referenced by windowManager::AddWindow(), windowManager::GetWindowIndexByName(), and window t().

4.1.3.36 bool windowManager::window_t::inFocus

Whether the Window is currently in focus(if it is the current window be used)

Definition at line 2305 of file TinyWindow.h.

Referenced by windowManager::GetWindowIsInFocusByIndex(), and windowManager::GetWindowIsInFocusBy \leftarrow Name().

4.1.3.37 bool windowManager::window_t::initialized

Whether the window has been successfully initialized

Definition at line 2307 of file TinyWindow.h.

Referenced by window_t().

4.1.3.38 bool windowManager::window_t::isCurrentContext

Whether the window is the current window being drawn to

Definition at line 2309 of file TinyWindow.h.

4.1.3.39 std::function<void(unsigned int, tinyWindowKeyState_t)> windowManager::window_t::keyEvent

This is the callback to be used when a key has been pressed

Definition at line 2314 of file TinyWindow.h.

4.1.3.40 tinyWindowKeyState_t windowManager::window_t::keys[KEY_LAST]

Record of keys that are either pressed or released in the respective window

Definition at line 2299 of file TinyWindow.h.

 $Referenced \ by \ window Manager:: Window Get Key By Index (), \ and \ window Manager:: Window Get Key By Name ().$

4.1.3.41 std::function<void(void)> windowManager::window_t::maximizedEvent

This is the callback to be used when the window has been maximized in a non-programmatic fashion

Definition at line 2318 of file TinyWindow.h.

4.1.3.42 std::function<void(void)> windowManager::window_t::minimizedEvent

This is the callback to be used when the window has been minimized in a non-programmatic fashion

Definition at line 2319 of file TinyWindow.h.

4.1.3.43 tinyWindowButtonState_t windowManager::window_t::mouseButton[(unsigned int) tinyWindowMouseButton t::LAST]

Record of mouse buttons that are either presses or released

Definition at line 2300 of file TinyWindow.h.

4.1.3.44 std::function<void(tinyWindowMouseButton_t, tinyWindowButtonState_t)> windowManager::window_t::mouseButtonEvent

This is the callback to be used when a mouse button has been pressed

Definition at line 2315 of file TinyWindow.h.

4.1.3.45 std::function < void(unsigned int, unsigned int, unsigned int, unsigned int) > windowManager::window_t::mouse ← MoveEvent

This is a callback to be used when the mouse has been moved

Definition at line 2323 of file TinyWindow.h.

4.1.3.46 unsigned int windowManager::window_t::mousePosition[2]

Position of the Mouse cursor relative to the window co-ordinates

Definition at line 2303 of file TinyWindow.h.

Referenced by windowManager::GetMousePositionInWindowByIndex(), windowManager::GetMousePositionIn \leftarrow WindowByName(), windowManager::SetMousePositionInWindowByIndex(), and windowManager::SetMouse \leftarrow PositionInWindowByName().

4.1.3.47 std::function<void(tinyWindowMouseScroll_t)> windowManager::window_t::mouseWheelEvent

This is the callback to be used when the mouse wheel has been scrolled.

Definition at line 2316 of file TinyWindow.h.

4.1.3.48 std::function<void(unsigned int, unsigned int)> windowManager::window_t::movedEvent

This is the callback to be used the window has been moved in a non-programmatic fashion

Definition at line 2321 of file TinyWindow.h.

4.1.3.49 const char* windowManager::window_t::name

Name of the window

Definition at line 2294 of file TinyWindow.h.

 $Referenced \ by \ windowManager:: GetWindowNameByIndex(), \ windowMana$

4.1.3.50 unsigned int windowManager::window_t::position[2]

Position of the Window relative to the screen co-ordinates

Definition at line 2302 of file TinyWindow.h.

Referenced by windowManager::GetWindowPositionByIndex(), windowManager::GetWindowPositionByName(), windowManager::Platform_SetWindowResolution(), windowManager::SetWindowPositionByIndex(), and window
Manager::SetWindowPositionByName().

4.1.3.51 std::function < void(unsigned int, unsigned int) > windowManager::window_t::resizeEvent

This is a callback to be used when the window has been resized in a non-programmatic fashion

Definition at line 2322 of file TinyWindow.h.

4.1.3.52 unsigned int windowManager::window_t::resolution[2]

Resolution/Size of the window stored in an array

Definition at line 2301 of file TinyWindow.h.

Referenced by windowManager::AddWindow(), windowManager::GetWindowResolutionByIndex(), window Manager::GetWindowResolutionByName(), windowManager::Platform_SetWindowPosition(), windowManager::GetWindowResolution(), windowManager::SetWindowResolutionByIndex(), and windowManager::Set WindowResolutionByName().

4.1.3.53 XSetWindowAttributes windowManager::window_t::setAttributes

The attributes to be set for the window

Definition at line 2340 of file TinyWindow.h.

4.1.3.54 bool windowManager::window_t::shouldClose

Whether the Window should be closing

Definition at line 2304 of file TinyWindow.h.

 $Referenced\ \ by\ \ window Manager:: GetWindow Should Close By Index(),\ \ window Manager:: GetWindow Should Close \Leftrightarrow By Name(),\ and\ \ window _t().$

4.1.3.55 int windowManager::window_t::stencilBits

Size of the stencil buffer, (defaults to 8 bit)

Definition at line 2298 of file TinyWindow.h.

Referenced by windowManager::AddWindow(), and window_t().

 $\textbf{4.1.3.56} \hspace{0.3cm} \textbf{XVisualInfo} * \hspace{0.3cm} \textbf{windowManager::window_t::visualInfo}$

The handle to the Visual Information. similar purpose to PixelformatDesriptor

Definition at line 2338 of file TinyWindow.h.

4.1.3.57 Window windowManager::window_t::windowHandle

The X11 handle to the window. I wish they didn't name the type 'Window'

Definition at line 2336 of file TinyWindow.h.

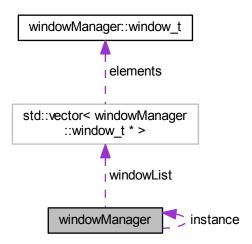
The documentation for this struct was generated from the following file:

• Include/TinyWindow.h

4.2 windowManager Class Reference

```
#include <TinyWindow.h>
```

Collaboration diagram for windowManager:



Classes

• struct window_t

Public Member Functions

- windowManager ()
- ∼windowManager (void)

Static Public Member Functions

- static void ShutDown (void)
- static windowManager * AddWindow (const char *windowName, unsigned int width=DEFAULT_WINDOW_OW_WIDTH, unsigned int height=DEFAULT_WINDOW_HEIGHT, unsigned int colourBits=8, unsigned int depthBits=8, unsigned int stencilBits=8)
- static int GetNumWindows (void)
- static bool GetMousePositionInScreen (unsigned int &x, unsigned int &y)
- static unsigned int * GetMousePositionInScreen (void)
- static bool SetMousePositionInScreen (unsigned int x, unsigned int y)
- static unsigned int * GetScreenResolution (void)
- static bool GetScreenResolution (unsigned int &width, unsigned int &Height)
- static bool GetWindowResolutionByName (const char *windowName, unsigned int &width, unsigned int &height)
- static bool GetWindowResolutionByIndex (unsigned int windowIndex, unsigned int &width, unsigned int &height)
- static unsigned int * GetWindowResolutionByName (const char *windowName)
- static unsigned int * GetWindowResolutionByIndex (unsigned int windowIndex)
- static bool SetWindowResolutionByName (const char *windowName, unsigned int width, unsigned int height)
- static bool SetWindowResolutionByIndex (unsigned int windowIndex, unsigned int width, unsigned int height)
- static bool GetWindowPositionByName (const char *windowName, unsigned int &x, unsigned int &y)
- static bool GetWindowPositionByIndex (unsigned int windowIndex, unsigned int &x, unsigned int &y)
- static unsigned int * GetWindowPositionByName (const char *windowName)
- static unsigned int * GetWindowPositionByIndex (unsigned int windowIndex)
- static bool SetWindowPositionByName (const char *windowName, unsigned int x, unsigned int y)
- static bool SetWindowPositionByIndex (unsigned int windowIndex, unsigned int x, unsigned int y)
- static bool GetMousePositionInWindowByName (const char *windowName, unsigned int &x, unsigned int &y)
- static bool GetMousePositionInWindowByIndex (unsigned int windowIndex, unsigned int &x, unsigned int &y)
- static unsigned int * GetMousePositionInWindowByName (const char *windowName)
- static unsigned int * GetMousePositionInWindowByIndex (unsigned int windowIndex)
- static bool SetMousePositionInWindowByName (const char *windowName, unsigned int x, unsigned int y)
- static bool SetMousePositionInWindowByIndex (unsigned int windowIndex, unsigned int x, unsigned int y)
- static tinyWindowKeyState_t WindowGetKeyByName (const char *windowName, unsigned int key)
- static tinyWindowKeyState_t WindowGetKeyByIndex (unsigned int windowIndex, unsigned int key)
- static bool GetWindowShouldCloseByName (const char *windowName)
- static bool GetWindowShouldCloseByIndex (unsigned int windowIndex)
- static bool WindowSwapBuffersByName (const char *windowName)
- static bool WindowSwapBuffersByIndex (unsigned int windowIndex)
- static bool MakeWindowCurrentContextByName (const char *windowName)
- static bool MakeWindowCurrentContextByIndex (unsigned int windowIndex)
- static bool GetWindowIsFullScreenByName (const char *windowName)
- static bool GetWindowlsFullScreenByIndex (unsigned int windowlndex)
- static bool SetFullScreenByName (const char *windowName, bool newState)
- static bool SetFullScreenByIndex (unsigned int windowIndex, bool newState)
- static bool GetWindowIsMinimizedByName (const char *windowName)
- static bool GetWindowIsMinimizedByIndex (unsigned int windowIndex)
- static bool MinimizeWindowByName (const char *windowName, bool newState)
- static bool MinimizeWindowByIndex (unsigned int windowIndex, bool newState)
- static bool GetWindowIsMaximizedByName (const char *windowName)
- static bool GetWindowlsMaximizedByIndex (unsigned int windowlndex)
- static bool MaximizeWindowByName (const char *windowName, bool newState)
- static bool MaximizeWindowByIndex (unsigned int windowIndex, bool newState)
- static const char * GetWindowNameByIndex (unsigned int windowIndex)
- static unsigned int GetWindowIndexByName (const char *windowName)
- static bool SetWindowTitleBarByName (const char *windowName, const char *newTitle)

static bool SetWindowTitleBarByIndex (unsigned int windowIndex, const char *newName)

- static bool SetWindowlconByName (void)
- static bool SetWindowlconByIndex (void)
- static bool GetWindowlsInFocusByName (const char *windowName)
- static bool GetWindowlsInFocusByIndex (unsigned int windowlndex)
- static bool FocusWindowByName (const char *windowName, bool newState)
- static bool FocusWindowByIndex (unsigned int windowIndex, bool newState)
- static bool RestoreWindowByName (const char *windowName)
- static bool RestoreWindowByIndex (unsigned int windowIndex)
- static bool Initialize (void)
- static bool IsInitialized (void)
- static void PollForEvents (void)
- · static void WaitForEvents (void)
- static bool RemoveWindowByName (const char *windowName)
- static bool RemoveWindowByIndex (unsigned int windowIndex)
- static bool SetWindowStyleByName (const char *windowName, tinyWindowStyle t windowStyle)
- static bool SetWindowStyleByIndex (unsigned int windowIndex, tinyWindowStyle_t windowStyle)
- static bool EnableWindowDecoratorsByName (const char *windowName, unsigned int decorators)
- static bool EnableWindowDecoratorsByIndex (unsigned int windowIndex, unsigned int decorators)
- static bool DisableWindowDecoratorByName (const char *windowName, unsigned int decorators)
- static bool DisableWindowDecoratorByIndex (unsigned int windowIndex, unsigned int decorators)
- static bool SetWindowOnKeyEventByName (const char *windowName, std::function< void(unsigned int, tinyWindowKeyState_t)> onKey)
- static bool SetWindowOnKeyEventByIndex (unsigned int windowIndex, std::function< void(unsigned int, tinyWindowKeyState_t)> onKey)

- static bool SetWindowOnDestroyedByName (const char *windowName, std::function< void(void)> on←
 Destroyed)
- static bool SetWindowOnDestroyedByIndex (unsigned int windowIndex, std::function< void(void)> on←
 Destroyed)
- static bool SetWindowOnMaximizedByName (const char *windowName, std::function< void(void)> on←
 Maximized)
- static bool SetWindowOnMaximizedByIndex (unsigned int windowIndex, std::function< void(void)> on← Maximized)
- static bool SetWindowOnMinimizedByName (const char *windowName, std::function< void(void)> on←
 Minimized)
- static bool SetWindowOnMinimizedByIndex (unsigned int windowIndex, std::function< void(void)> on← Minimized)
- static bool SetWindowOnFocusByName (const char *windowName, std::function< void(bool)> onFocus)
- static bool SetWindowOnFocusByIndex (unsigned int windowIndex, std::function < void(bool) > onFocus)
- static bool SetWindowOnMovedByName (const char *windowName, std::function< void(unsigned int, unsigned int)> onMoved)
- static bool SetWindowOnMovedByIndex (unsigned int windowIndex, std::function< void(unsigned int, unsigned int)> onMoved)
- static bool SetWindowOnResizeByName (const char *windowName, std::function< void(unsigned int, unsigned int)> onResize)
- static bool SetWindowOnResizeByIndex (unsigned int windowIndex, std::function< void(unsigned int, unsigned int)> onResize)

- static bool SetWindowOnMouseMoveByName (const char *windowName, std::function< void(unsigned int, unsigned int, unsigned int, unsigned int)> onMouseMove)
- static bool SetWindowOnMouseMoveByIndex (unsigned int windowIndex, std::function< void(unsigned int, unsigned int, unsigned int, unsigned int) > onMouseMove)

Static Private Member Functions

- static bool IsValid (const char *stringParameter)
- static bool WindowExists (unsigned int windowIndex)
- static windowManager * GetInstance (void)
- static void Platform InitializeWindow (window t *window)
- static bool Platform_InitializeGL (window_t *window)
- static void Platform_SetWindowResolution (window_t *window)
- static void Platform SetWindowPosition (window t *window, unsigned int x, unsigned int y)
- static void Platform SetMousePositionInWindow (window t *window, unsigned int x, unsigned int y)
- static void Platform_SwapBuffers (window_t *window)
- static void Platform_MakeCurrentContext (window_t *window)
- static void Platform_SetFullScreen (window_t *window)
- static void Platform MinimizeWindow (window t *window, bool newState)
- static void Platform_MaximizeWindow (window_t *window, bool newState)
- static void Platform SetWindowTitleBar (window t *window, const char *newTitle)
- static void Platform FocusWindow (window t *window, bool newState)
- static void Platform RestoreWindow (window t *window)
- static void Platform_SetWindowStyle (window_t *window, tinyWindowStyle_t windowStyle)
- static void Platform_EnableWindowDecorators (window_t *window, unsigned int decorators)
- static void Platform_DisableWindowDecorators (window_t *window, unsigned int decorators)
- static void ShutdownWindow (window_t *window)
- static bool DoesExistByName (const char *windowName)
- static bool DoesExistByIndex (unsigned int windowIndex)
- static window_t * GetWindowByName (const char *windowName)
- static window_t * GetWindowByIndex (unsigned int windowIndex)

Private Attributes

- std::vector< window_t * > windowList
- unsigned int screenResolution [2]
- unsigned int screenMousePosition [2]
- bool isInitialized

Static Private Attributes

static windowManager * instance = nullptr

4.2.1 Detailed Description

Definition at line 342 of file TinyWindow.h.

4.2.2 Constructor & Destructor Documentation

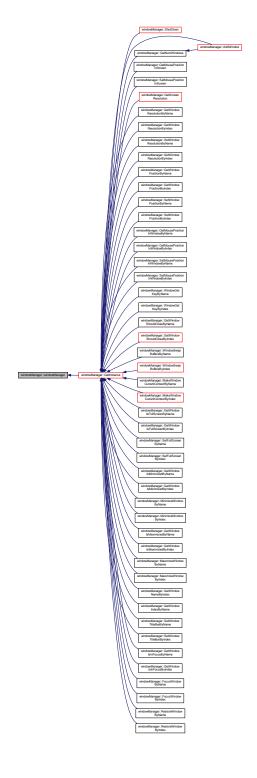
4.2.2.1 windowManager::windowManager() [inline]

Definition at line 348 of file TinyWindow.h.

Referenced by GetInstance().

348 {}

Here is the caller graph for this function:



```
4.2.2.2 windowManager::~windowManager(void) [inline]
```

Shutdown and delete all windows in the manager

Definition at line 353 of file TinyWindow.h.

4.2.3 Member Function Documentation

4.2.3.1 static windowManager* windowManager::AddWindow (const char * windowName, unsigned int width = DEFAULT_WINDOW_WIDTH, unsigned int height = DEFAULT_WINDOW_HEIGHT, unsigned int colourBits = 8, unsigned int depthBits = 8, unsigned int stencilBits = 8) [inline], [static]

Use this to add a window to the manager. returns a pointer to the manager which allows for the easy creation of multiple windows

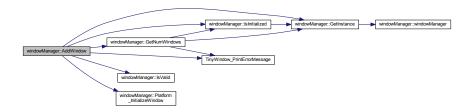
Definition at line 392 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, windowManager::window_t::colorBits, window Manager::window_t::depthBits, GetInstance(), GetNumWindows(), windowManager::window_t::iD, instance, INV ALID_WINDOW_NAME, IsInitialized(), IsValid(), windowManager::window_t::name, NOT_INITIALIZED, Platform InitializeWindow(), windowManager::window_t::resolution, windowManager::window_t::stencilBits, and Tiny Window_PrintErrorMessage().

Referenced by main().

```
393
394
             if ( GetInstance()->IsInitialized() )
395
396
                 if ( IsValid( windowName ) )
397
398
                     window_t* newWindow = new window_t;
                     newWindow->name = windowName;
399
                     newWindow->resolution[ 0 ] = width;
400
                     newWindow->resolution[ 1 ] = height;
401
                     newWindow->colorBits = colourBits;
newWindow->depthBits = depthBits;
402
403
404
                     newWindow->stencilBits = stencilBits;
405
                     instance->windowList.push_back( newWindow );
406
407
                     newWindow->iD = GetNumWindows() - 1;
408
409
                     Platform_InitializeWindow( newWindow );
410
411
                      return instance:
412
                 TinyWindow PrintErrorMessage(
413
      tinyWindowError_t::INVALID_WINDOW_NAME);
414
                 return nullptr;
415
416
             TinyWindow_PrintErrorMessage(
417
      tinyWindowError_t::NOT_INITIALIZED );
418
            return nullptr;
419
```

Here is the call graph for this function:



Here is the caller graph for this function:



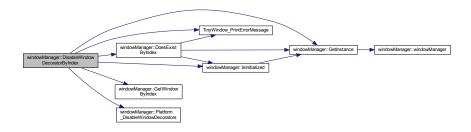
4.2.3.2 static bool windowManager::DisableWindowDecoratorByIndex (unsigned int *windowIndex*, unsigned int *decorators*) [inline], [static]

Disable windows decorators by index

Definition at line 1801 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByIndex(), GetInstance(), Get ← WindowByIndex(), IsInitialized(), NOT_INITIALIZED, Platform_DisableWindowDecorators(), TinyWindow_Print ← ErrorMessage(), and WINDOW_NOT_FOUND.

```
1802
              if ( GetInstance()->IsInitialized() )
1803
1804
1805
                   if ( DoesExistByIndex( windowIndex ) )
1806
1807
                       window_t* window = GetWindowByIndex(windowIndex);
1808
                       Platform_DisableWindowDecorators(window, decorators);
1809
                       return true;
1810
                  TinyWindow_PrintErrorMessage(
1811
      tinyWindowError_t::WINDOW_NOT_FOUND);
1812
                  return false;
1813
      TinyWindow_PrintErrorMessage(
tinyWindowError_t::NOT_INITIALIZED);
1814
1815
              return false;
1816
```



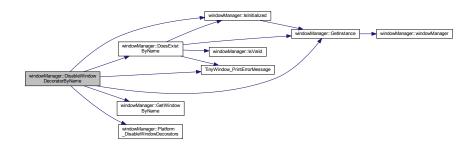
4.2.3.3 static bool windowManager::DisableWindowDecoratorByName (const char * windowName, unsigned int decorators) [inline], [static]

Disable windows decorators by name

Definition at line 1782 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByName(), GetInstance(), Get WindowByName(), IsInitialized(), NOT_INITIALIZED, Platform_DisableWindowDecorators(), TinyWindow_Print ErrorMessage(), and WINDOW_NOT_FOUND.

```
1783
1784
             if ( GetInstance() -> IsInitialized() )
1785
1786
                  if ( DoesExistByName( windowName ) )
1787
1788
                     window_t* window = GetWindowByName(windowName);
1789
                     Platform_DisableWindowDecorators(window, decorators);
1790
                     return true;
1791
1792
                  TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
1793
                 return false;
1794
             TinyWindow_PrintErrorMessage(
1795
      tinyWindowError_t::NOT_INITIALIZED );
1796
             return false;
1797
```



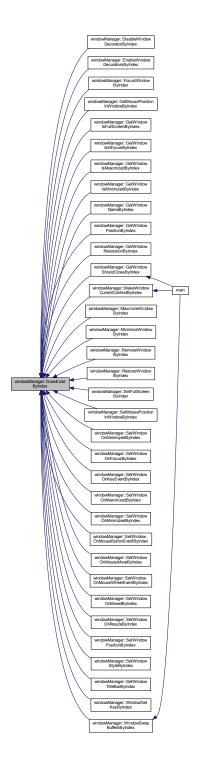
Definition at line 3073 of file TinyWindow.h.

References GetInstance(), INVALID_WINDOW_INDEX, IsInitialized(), NOT_INITIALIZED, and TinyWindow_Print \leftarrow ErrorMessage().

Referenced by DisableWindowDecoratorByIndex(), EnableWindowDecoratorsByIndex(), FocusWindowByIndex(), GetMousePositionInWindowByIndex(), GetWindowIsFullScreenByIndex(), GetWindowIsInFocusByIndex(), GetWindowIsMaximizedByIndex(), GetWindowIsMinimizedByIndex(), GetWindowNameByIndex(), GetWindowCurrent CostexByIndex(), GetWindowByIndex(), MaximizeWindowByIndex(), MaximizeWindowByIndex(), RemoveWindowByIndex(), Restore WindowByIndex(), SetFullScreenByIndex(), SetMousePositionInWindowByIndex(), SetWindowOnDestroyedBy Index(), SetWindowOnFocusByIndex(), SetWindowOnKeyEventByIndex(), SetWindowOnMaximizedByIndex(), SetWindowOnMinimizedByIndex(), SetWindowOnMouseButtonEventByIndex(), SetWindowOnMouseMoveBy Index(), SetWindowOnMouseWheelEventByIndex(), SetWindowOnMovedByIndex(), SetWindowOnResizeBy Index(), SetWindowPositionByIndex(), SetWindowStyleByIndex(), SetWindowTitleBarByIndex(), WindowGetKey ByIndex(), and WindowSwapBuffersByIndex().

```
3074
3075
              if ( GetInstance()->IsInitialized() )
3076
                  if ( windowIndex <= ( instance->windowList.size() - 1 ) )
3077
3078
3079
                      return true;
3080
3081
3082
                 TinyWindow_PrintErrorMessage(
      tinyWindowError_t::INVALID_WINDOW_INDEX );
3083
                 return false:
3084
3086
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED);
3087
             return false;
3088
```

```
windowManager::DoesExist Bylndex windowManager::Initialized windowManager::
```



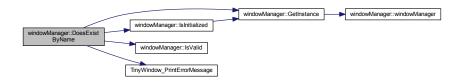
4.2.3.5 static bool windowManager::DoesExistByName (const char * windowName) [inline], [static], [private]

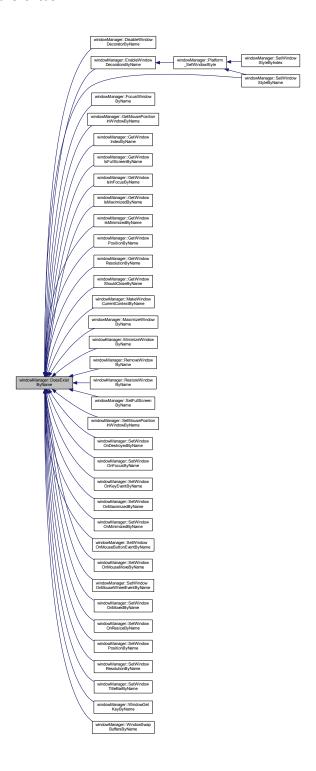
Definition at line 3052 of file TinyWindow.h.

References GetInstance(), INVALID_WINDOW_NAME, IsInitialized(), IsValid(), NOT_INITIALIZED, and Tiny Window_PrintErrorMessage().

Referenced by DisableWindowDecoratorByName(), EnableWindowDecoratorsByName(), FocusWindowByName(), GetMousePositionInWindowByName(), GetWindowIndexByName(), GetWindowIsFullScreenByName(), GetWindowIsInFocusByName(), GetWindowIsMaximizedByName(), GetWindowIsMinimizedByName(), GetWindowCurrent CostionByName(), GetWindowByName(), GetWindowShouldCloseByName(), MakeWindowCurrent ContextByName(), MaximizeWindowByName(), MinimizeWindowByName(), RemoveWindowByName(), Restore WindowByName(), SetFullScreenByName(), SetMousePositionInWindowByName(), SetWindowOnDestroyedByContextByName(), SetWindowOnFocusByName(), SetWindowOnKeyEventByName(), SetWindowOnMaximizedByName(), SetWindowOnMinimizedByName(), SetWindowOnMouseButtonEventByName(), SetWindowOnMouseMoveByContextByName(), SetWindowOnMouseWheelEventByName(), SetWindowOnMovedByName(), SetWindowOnResizeByContextByName(), SetWindowPositionByName(), SetWindowConMovedByName(), SetWindowConResizeByContextByName(), SetWindowConByName(), SetWindowConResizeByContextByName(), SetWindowConByName(), SetWindowConResizeByContextByName(), SetWindowConByName(), SetWindowConResizeByContextByName(), SetWindowConByName(), SetWindowConResizeByContextByName(), SetWindowConByName(), SetWindowC

```
3054
             if ( GetInstance() -> IsInitialized() )
3055
3056
                  if ( IsValid( windowName ) )
3057
                      for ( auto window : instance->windowList )
3058
3059
3060
                              !strcmp( window->name, windowName ) )
3061
3062
                               return true;
3063
3064
3065
                 TinyWindow_PrintErrorMessage(
3066
      tinyWindowError_t::INVALID_WINDOW_NAME );
3067
                 return false;
3068
             TinvWindow PrintErrorMessage(
3069
      tinyWindowError_t::NOT_INITIALIZED);
3070
             return false;
3071
```





4.2.3.6 static bool windowManager::EnableWindowDecoratorsByIndex (unsigned int *windowIndex*, unsigned int *decorators*) [inline], [static]

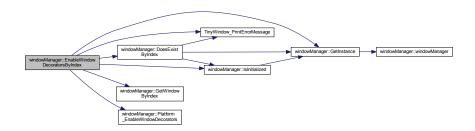
Enable windows decorators by index

Definition at line 1762 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByIndex(), GetInstance(), Get ← WindowByIndex(), IsInitialized(), NOT_INITIALIZED, Platform_EnableWindowDecorators(), TinyWindow_Print ← ErrorMessage(), and WINDOW NOT FOUND.

```
1763
1764
             if (GetInstance()->IsInitialized())
1765
1766
                  if (DoesExistByIndex(windowIndex))
1767
                  {
1768
                      window_t* window = GetWindowByIndex(windowIndex);
1769
                      Platform_EnableWindowDecorators(window, decorators);
1770
                      return true;
1771
1772
                 TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
1773
                 return false;
1774
1775
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED);
1776
             return false:
1777
```

Here is the call graph for this function:



4.2.3.7 static bool windowManager::EnableWindowDecoratorsByName (const char * windowName, unsigned int decorators) [inline],[static]

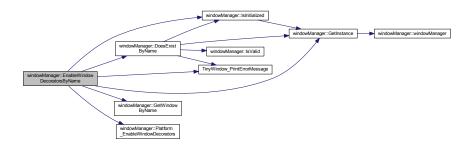
Enable window decorators by name

Definition at line 1743 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByName(), GetInstance(), Get \leftarrow WindowByName(), IsInitialized(), NOT_INITIALIZED, Platform_EnableWindowDecorators(), TinyWindow_Print \leftarrow ErrorMessage(), and WINDOW_NOT_FOUND.

Referenced by Platform SetWindowStyle().

```
1744
             if ( GetInstance() -> IsInitialized() )
1745
1746
1747
                  if ( DoesExistByName( windowName ) )
1748
1749
                      window_t* window = GetWindowByName(windowName);
1750
                     Platform_EnableWindowDecorators(window, decorators);
1751
                     return true;
1752
                 TinyWindow_PrintErrorMessage(
1753
      tinyWindowError_t::WINDOW_NOT_FOUND);
1754
                 return false;
1755
1756
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
1757
             return false;
1758
```



Here is the caller graph for this function:



```
4.2.3.8 static bool windowManager::FocusWindowByIndex ( unsigned int windowIndex, bool newState ) [inline], [static]
```

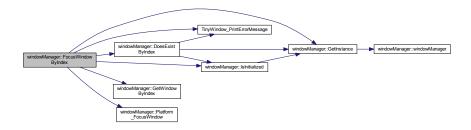
Set the window to be in focus by index

Definition at line 1493 of file TinyWindow.h.

 $References \ windowManager::window_t::AtomDesktopGeometry, \ DoesExistByIndex(), \ GetInstance(), \ Get \\ windowByIndex(), \ IsInitialized(), \ NOT_INITIALIZED, \ Platform_FocusWindow(), \ TinyWindow_PrintErrorMessage(), \ and \ WINDOW_NOT_FOUND.$

```
1494
              if (GetInstance()->IsInitialized())
1495
1496
1497
                   if (DoesExistByIndex(windowIndex))
1498
1499
                       window_t* window = GetWindowByIndex(windowIndex);
1500
                       Platform_FocusWindow(window, newState);
1501
                       return true;
1502
1503
                   TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
1504
                  return false;
1505
      TinyWindow_PrintErrorMessage(
tinyWindowError_t::NOT_INITIALIZED);
1506
1507
              return false;
1508
```

Here is the call graph for this function:



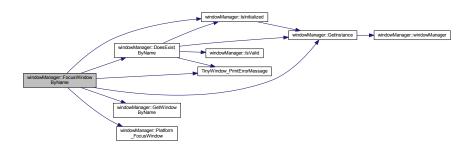
4.2.3.9 static bool windowManager::FocusWindowByName (const char * windowName, bool newState) [inline], [static]

Set the window to be in focus by name

Definition at line 1474 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByName(), GetInstance(), Get \leftarrow WindowByName(), IsInitialized(), NOT_INITIALIZED, Platform_FocusWindow(), TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
1475
1476
             if ( GetInstance()->IsInitialized() )
1477
1478
                 if ( DoesExistByName( windowName ) )
1479
                     window_t* window = GetWindowByName(windowName);
1480
1481
                     Platform_FocusWindow(window, newState);
1482
                     return true;
1484
                 TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
1485
                 return false;
1486
             TinyWindow_PrintErrorMessage(
1487
      tinyWindowError_t::NOT_INITIALIZED );
1488
             return false;
1489
```



4.2.3.10 static windowManager* windowManager::GetInstance(void) [inline], [static], [private]

Definition at line 2432 of file TinyWindow.h.

References instance, and windowManager().

Referenced by AddWindow(), DisableWindowDecoratorByIndex(), DisableWindowDecoratorByName(), Does ← ExistByIndex(), DoesExistByName(), EnableWindowDecoratorsByIndex(), EnableWindowDecoratorsByName(), FocusWindowByIndex(), FocusWindowByName(), GetMousePositionInScreen(), GetMousePositionInWindow ByIndex(), GetMousePositionInWindowByName(), GetNumWindows(), GetScreenResolution(), GetWindow← IndexByName(), GetWindowlsFullScreenByIndex(), GetWindowlsFullScreenByName(), GetWindowlsInFocus ← ByIndex(), GetWindowlsInFocusByName(), GetWindowlsMaximizedByIndex(), GetWindowlsMaximizedByName(), GetWindowIsMinimizedByIndex(), GetWindowIsMinimizedByName(), GetWindowNameByIndex(), GetWindow⇔ PositionByIndex(), GetWindowPositionByName(), GetWindowResolutionByIndex(), GetWindowResolutionBy⊷ Name(), GetWindowShouldCloseByIndex(), GetWindowShouldCloseByName(), Initialize(), IsInitialized(), Make← WindowCurrentContextByIndex(), MakeWindowCurrentContextByName(), MaximizeWindowByIndex(), Maximize ← WindowByName(), MinimizeWindowByIndex(), MinimizeWindowByName(), PollForEvents(), RemoveWindow← ByIndex(), RemoveWindowByName(), RestoreWindowByIndex(), RestoreWindowByName(), SetFullScreen ← ByIndex(), SetFullScreenByName(), SetMousePositionInScreen(), SetMousePositionInWindowByIndex(), Set← MousePositionInWindowByName(), SetWindowOnDestroyedByIndex(), SetWindowOnDestroyedByName(), Set ← WindowOnFocusByIndex(), SetWindowOnFocusByName(), SetWindowOnKeyEventByIndex(), SetWindow← OnKeyEventByName(), SetWindowOnMaximizedByIndex(), SetWindowOnMaximizedByName(), SetWindow OnMinimizedByIndex(), SetWindowOnMinimizedByName(), SetWindowOnMouseButtonEventByIndex(), Set WindowOnMouseButtonEventByName(), SetWindowOnMouseMoveByIndex(), SetWindowOnMouseMoveBy ← Name(), SetWindowOnMouseWheelEventByIndex(), SetWindowOnMouseWheelEventByName(), SetWindow ← OnMovedByIndex(), SetWindowOnMovedByName(), SetWindowOnResizeByIndex(), SetWindowOnResizeBy ← Name(), SetWindowPositionByIndex(), SetWindowPositionByName(), SetWindowResolutionByIndex(), Set ← WindowResolutionByName(), SetWindowStyleByIndex(), SetWindowStyleByName(), SetWindowTitleBarByIndex(), SetWindowTitleBarByName(), ShutDown(), WaitForEvents(), WindowGetKeyByIndex(), WindowGetKeyByName(), WindowSwapBuffersByIndex(), and WindowSwapBuffersByName().

```
2433
2434
             if ( windowManager::instance == nullptr )
2435
2436
                  windowManager::instance = new windowManager();
2437
                  return windowManager::instance;
2438
2439
2440
             else
2441
             {
2442
                 return windowManager::instance;
2444
```

```
windowManager::GetInstance windowManager::windowManager
```

4.2.3.11 static bool windowManager::GetMousePositionInScreen (unsigned int & x, unsigned int & y) [inline], [static]

Return the mouse position in screen co-ordinates

Definition at line 438 of file TinyWindow.h.

References GetInstance(), instance, IsInitialized(), NOT_INITIALIZED, screenMousePosition, and TinyWindow_ PrintErrorMessage().

```
439
440
            if ( GetInstance()->IsInitialized() )
441
442
                x = instance->screenMousePosition[0];
443
                y = instance->screenMousePosition[1];
444
                return true;
445
446
            TinyWindow_PrintErrorMessage(
447
      tinyWindowError_t::NOT_INITIALIZED );
448
            return false;
449
```

Here is the call graph for this function:



4.2.3.12 static unsigned int* windowManager::GetMousePositionInScreen(void) [inline],[static]

Return the mouse position in screen co-ordinates

Definition at line 453 of file TinyWindow.h.

References GetInstance(), instance, IsInitialized(), NOT_INITIALIZED, screenMousePosition, and TinyWindow_ PrintErrorMessage().

```
windowManager::GetMousePosition windowManager::Ishitialized windowManager::GetInstance windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowManager::windowMan
```

4.2.3.13 static bool windowManager::GetMousePositionInWindowByIndex (unsigned int windowIndex, unsigned int & x, unsigned int & y) [inline], [static]

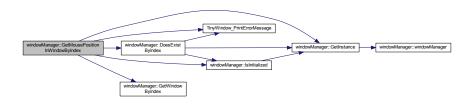
Return the mouse position relative to the given window's co-ordinates by setting X and Y

Definition at line 812 of file TinyWindow.h.

References DoesExistByIndex(), GetInstance(), GetWindowByIndex(), IsInitialized(), windowManager::window_t ::mousePosition, NOT_INITIALIZED, TINYWINDOW_ERROR, TinyWindow_PrintErrorMessage(), and WINDOW NOT_FOUND.

```
813
814
            if ( GetInstance()->IsInitialized() )
815
                if ( DoesExistByIndex( windowIndex ) )
816
817
                    x = GetWindowByIndex( windowIndex )->
      mousePosition[ 0 ];
819
                    y = GetWindowByIndex( windowIndex )->
      mousePosition[1];
820
                    return true;
821
822
                TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
823
                return false;
824
            TinyWindow_PrintErrorMessage(
825
      tinyWindowError_t::NOT_INITIALIZED );
826
            return (bool)tinyWindowError_t::TINYWINDOW_ERROR;
827
```

Here is the call graph for this function:



4.2.3.14 static unsigned int* windowManager::GetMousePositionInWindowByIndex (unsigned int windowIndex) [inline], [static]

Return the mouse Position relative to the given window's co-ordinates as an array

Definition at line 849 of file TinyWindow.h.

 $References\ DoesExistByIndex(),\ GetInstance(),\ GetWindowByIndex(),\ IsInitialized(),\ windowManager::window_t \\ \\ ::mousePosition,\ NOT_INITIALIZED,\ and\ TinyWindow_PrintErrorMessage().$

```
850
851
            if ( GetInstance()->IsInitialized() )
852
853
                if ( DoesExistByIndex( windowIndex ) )
854
                {
                    return GetWindowByIndex( windowIndex ) ->
855
      mousePosition;
856
857
                return nullptr;
858
            TinyWindow_PrintErrorMessage(
859
      tinyWindowError_t::NOT_INITIALIZED );
860
            return nullptr;
861
```

Here is the call graph for this function:



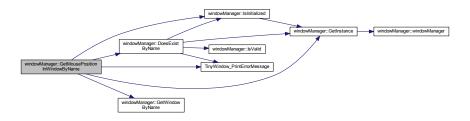
4.2.3.15 static bool windowManager::GetMousePositionInWindowByName (const char * windowName, unsigned int & x, unsigned int & y) [inline], [static]

Return the mouse Position relative to the given window's co-ordinates by setting X and Y

Definition at line 793 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), GetWindowByName(), IsInitialized(), windowManager::window_ t::mousePosition, NOT_INITIALIZED, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
794
795
                ( GetInstance()->IsInitialized() )
796
797
                    ( DoesExistByName( windowName ) )
798
799
                     x = GetWindowByName( windowName )->mousePosition[ 0 ];
800
                     y = GetWindowByName( windowName )->mousePosition[ 1 ];
801
                     return true;
802
803
                 TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
    return false;
804
805
806
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
807
             return false;
808
```



```
4.2.3.16 static unsigned int* windowManager::GetMousePositionInWindowByName ( const char * windowName ) [inline], [static]
```

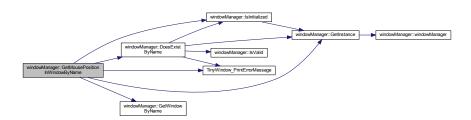
Return the mouse Position relative to the given window's co-ordinates as an array

Definition at line 832 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), GetWindowByName(), IsInitialized(), windowManager::window_ t::mousePosition, NOT INITIALIZED, TinyWindow PrintErrorMessage(), and WINDOW NOT FOUND.

```
833
834
            if ( GetInstance()->IsInitialized() )
835
836
                if ( DoesExistByName( windowName ) )
837
838
                    return GetWindowByName( windowName ) ->
     mousePosition;
839
840
                TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
841
                return nullptr;
842
            TinyWindow_PrintErrorMessage(
843
      tinyWindowError_t::NOT_INITIALIZED );
844
            return nullptr;
845
```

Here is the call graph for this function:



```
4.2.3.17 static int windowManager::GetNumWindows ( void ) [inline], [static]
```

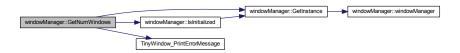
Return the total amount of windows the manager has

Definition at line 424 of file TinyWindow.h.

References GetInstance(), IsInitialized(), NOT_INITIALIZED, TINYWINDOW_ERROR, and TinyWindow_Print← ErrorMessage().

Referenced by AddWindow().

Here is the call graph for this function:



Here is the caller graph for this function:



4.2.3.18 static unsigned int* windowManager::GetScreenResolution (void) [inline], [static]

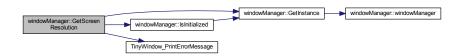
Return the Resolution of the current screen

Definition at line 492 of file TinyWindow.h.

References GetInstance(), instance, IsInitialized(), NOT_INITIALIZED, screenResolution, and TinyWindow_Print← ErrorMessage().

Referenced by Platform_SetFullScreen().

```
493
494
             if ( GetInstance()->IsInitialized() )
495
                    _WIN32 ) || defined( _WIN64 )
496 #if defined(
                  RECT screen;
497
                  HWND desktop = GetDesktopWindow();
498
                  GetWindowRect( desktop, &screen );
500
                 instance->screenResolution[0] = screen.right;
instance->screenResolution[1] = screen.bottom;
501
502
503
                  return instance->screenResolution;
504
505 #elif defined(__linux__)
                  instance->screenResolution[0] = WidthOfScreen(XDefaultScreenOfDisplay(
      instance->currentDisplay));
507
                 instance->screenResolution[1] = HeightOfScreen(XDefaultScreenOfDisplay(
      instance->currentDisplay));
508
509
                  return instance->screenResolution;
510 #endif
512
      TinyWindow_PrintErrorMessage(
tinyWindowError_t::NOT_INITIALIZED);
513
             return nullptr;
514
515
```



Here is the caller graph for this function:



4.2.3.19 static bool windowManager::GetScreenResolution (unsigned int & width, unsigned int & Height) [inline], [static]

Return the Resolution of the current screen

Definition at line 519 of file TinyWindow.h.

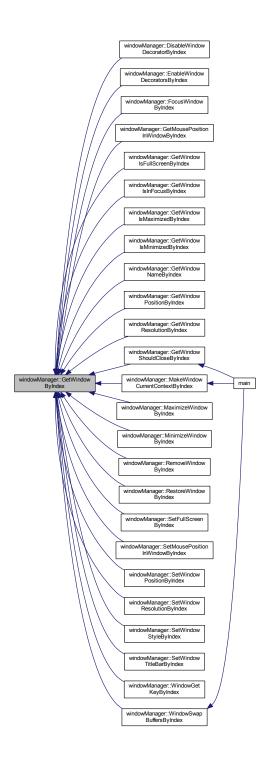
References GetInstance(), IsInitialized(), NOT_INITIALIZED, and TinyWindow_PrintErrorMessage().

```
520
521
             if ( GetInstance()->IsInitialized() )
522
523 #if defined(
                   _WIN32 ) || defined( _WIN64 )
524
                  RECT screen;
525
                  HWND desktop = GetDesktopWindow();
                  GetWindowRect( desktop, &screen );
526
527
                  width = screen.right;
528
                  Height = screen.bottom;
529 #elif defined(__linux__)
                  width = WidthOfScreen(XDefaultScreenOfDisplay(instance->currentDisplay));
531
                  Height = HeightOfScreen(XDefaultScreenOfDisplay(instance->currentDisplay));
532
                  instance->screenResolution[0] = width;
instance->screenResolution[1] = Height;
533
534
535 #endif
536
                  return true;
537
538
      TinyWindow_PrintErrorMessage(
tinyWindowError_t::NOT_INITIALIZED);
539
540
             return false;
541
```

```
windowManager::GetScreen Resolution windowManager::Initialized windowManager::Initialized TinyWindow_PrintErrorMessage
```

Definition at line 3104 of file TinyWindow.h.

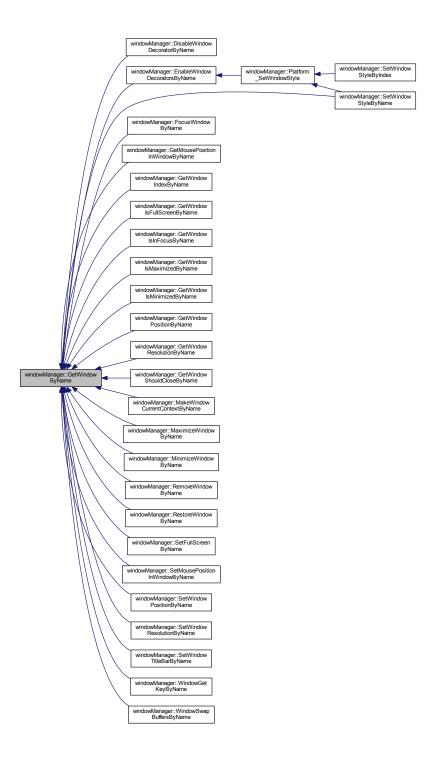
Referenced by DisableWindowDecoratorByIndex(), EnableWindowDecoratorsByIndex(), FocusWindowByIndex(), GetMousePositionInWindowByIndex(), GetWindowIsFullScreenByIndex(), GetWindowIsInFocusByIndex(), Get \leftarrow WindowIsMaximizedByIndex(), GetWindowIsMinimizedByIndex(), GetWindowNameByIndex(), GetWindow \leftarrow PositionByIndex(), GetWindowResolutionByIndex(), GetWindowShouldCloseByIndex(), MakeWindowCurrent \leftarrow ContextByIndex(), MaximizeWindowByIndex(), MinimizeWindowByIndex(), RemoveWindowByIndex(), Restore \leftarrow WindowByIndex(), SetFullScreenByIndex(), SetMousePositionInWindowByIndex(), SetWindowPositionByIndex(), SetWindowStyleByIndex(), SetWindowTitleBarByIndex(), WindowGetKeyBy \leftarrow Index(), and WindowSwapBuffersByIndex().



4.2.3.21 static window_t* windowManager::GetWindowByName (const char * windowName) [inline], [static], [private]

Definition at line 3090 of file TinyWindow.h.

Referenced by DisableWindowDecoratorByName(), EnableWindowDecoratorsByName(), FocusWindowByName(), GetMousePositionInWindowByName(), GetWindowIndexByName(), GetWindowIsFullScreenByName(), Get&UindowIsInFocusByName(), GetWindowIsMaximizedByName(), GetWindowIsMinimizedByName(), GetWindow&PositionByName(), GetWindowResolutionByName(), GetWindowShouldCloseByName(), MakeWindowCurrent&ContextByName(), MaximizeWindowByName(), MinimizeWindowByName(), RemoveWindowByName(), Restore&WindowByName(), SetFullScreenByName(), SetMousePositionInWindowByName(), SetWindowPositionByName(), SetWindowResolutionByName(), SetWindowStyleByName(), SetWindowTitleBarByName(), WindowGetKeyBy&Name(), and WindowSwapBuffersByName().



4.2.3.22 static unsigned int windowManager::GetWindowIndexByName (const char * windowName) [inline], [static]

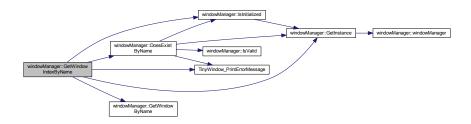
Get window index by name

Definition at line 1309 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), GetWindowByName(), windowManager::window_t::iD, Is Initialized(), NOT_INITIALIZED, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
1310
             if ( GetInstance()->IsInitialized() )
1311
1312
                 if ( DoesExistByName( windowName ) )
1313
1314
1315
                     return GetWindowByName( windowName )->iD;
1316
1317
                 TinyWindow_PrintErrorMessage(
     tinyWindowError_t::WINDOW_NOT_FOUND);
1318
                 return false;
1319
1320
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
1321
             return false;
1322
```

Here is the call graph for this function:



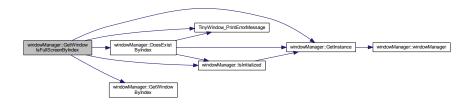
```
4.2.3.23 static bool windowManager::GetWindowlsFullScreenByIndex (unsigned int windowlndex) [inline], [static]
```

Return whether the given window is in full screen mode

Definition at line 1083 of file TinyWindow.h.

References windowManager::window_t::currentState, DoesExistByIndex(), FULLSCREEN, GetInstance(), Get
WindowByIndex(), IsInitialized(), NOT_INITIALIZED, and TinyWindow_PrintErrorMessage().

```
1084
1085
             if ( GetInstance()->IsInitialized() )
1086
1087
                    ( DoesExistByIndex( windowIndex ) )
1088
                     return (GetWindowByIndex(windowIndex)->currentState ==
1089
      tinyWindowState_t::FULLSCREEN);
1090
1091
1092
                 return false;
1093
             TinyWindow_PrintErrorMessage(
1094
      tinyWindowError_t::NOT_INITIALIZED);
1095
             return false;
1096
```



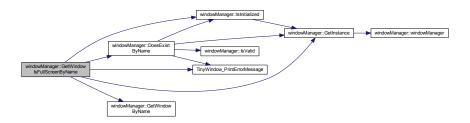
```
4.2.3.24 static bool windowManager::GetWindowlsFullScreenByName ( const char * windowName ) [inline], [static]
```

Return whether the given window is in full screen mode

Definition at line 1066 of file TinyWindow.h.

 $References\ windowManager::window_t::currentState,\ DoesExistByName(),\ FULLSCREEN,\ GetInstance(),\ Get \\ windowByName(),\ IsInitialized(),\ NOT_INITIALIZED,\ and\ TinyWindow_PrintErrorMessage().$

```
1067
1068
             if ( GetInstance()->IsInitialized() )
1069
1070
                  if ( DoesExistByName( windowName ) )
1071
                     return ( GetWindowByName ( windowName ) ->currentState ==
1072
      tinyWindowState_t::FULLSCREEN );
1073
1074
1075
                 return false;
1076
1077
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED);
1078
             return false;
1079
```



4.2.3.25 static bool windowManager::GetWindowlsInFocusByIndex (unsigned int windowIndex) [inline], [static]

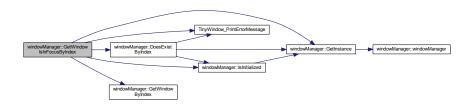
Get whether the window is in focus by index

Definition at line 1455 of file TinyWindow.h.

References DoesExistByIndex(), GetInstance(), GetWindowByIndex(), windowManager::window_t::inFocus, Is⇔ Initialized(), NOT_INITIALIZED, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
if ( GetInstance()->IsInitialized() )
1458
1459
                 if ( DoesExistByIndex( windowIndex ) )
1460
                     return GetWindowByIndex( windowIndex ) -> inFocus;
1461
1462
1463
                 TinyWindow_PrintErrorMessage(
     tinyWindowError_t::WINDOW_NOT_FOUND);
1464
                 return false;
1465
1466
1467
             TinyWindow_PrintErrorMessage(
     tinyWindowError_t::NOT_INITIALIZED );
1468
             return false;
1469
```

Here is the call graph for this function:



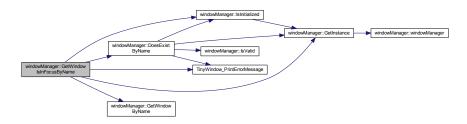
```
4.2.3.26 static bool windowManager::GetWindowIsInFocusByName ( const char * windowName ) [inline], [static]
```

Get whether the window is in focus by name

Definition at line 1438 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), GetWindowByName(), windowManager::window_t::inFocus, Is Initialized(), NOT_INITIALIZED, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
1439
1440
              if ( GetInstance() -> IsInitialized() )
1441
1442
                  if ( DoesExistByName( windowName ) )
1443
                      return GetWindowBvName ( windowName ) -> inFocus;
1444
1445
1446
                  TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
1447
                 return false;
1448
             {\tt TinyWindow\_PrintErrorMessage(}
1449
      tinyWindowError_t::NOT_INITIALIZED );
1450
             return false;
1451
```



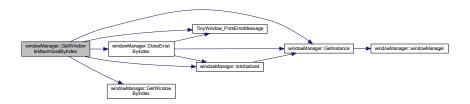
4.2.3.27 static bool windowManager::GetWindowIsMaximizedByIndex (unsigned int *windowIndex* **)** [inline], [static]

Return whether the given window is currently maximized

Definition at line 1235 of file TinyWindow.h.

References windowManager::window_t::currentState, DoesExistByIndex(), GetInstance(), GetWindowByIndex(), IsInitialized(), MAXIMIZED, NOT_INITIALIZED, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
1236
1237
              if ( GetInstance()->IsInitialized() )
1239
                   if ( DoesExistByIndex( windowIndex ) )
1240
                       return (GetWindowByIndex(windowIndex)->currentState ==
1241
      tinyWindowState_t::MAXIMIZED);
1242
1243
                  TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
1244
                  return false;
1245
      TinyWindow_PrintErrorMessage(
tinyWindowError_t::NOT_INITIALIZED);
1246
1247
              return false;
```



```
4.2.3.28 static bool windowManager::GetWindowIsMaximizedByName ( const char * windowName ) [inline], [static]
```

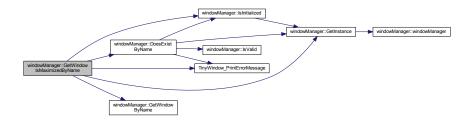
Return whether the current window is currently maximized

Definition at line 1217 of file TinyWindow.h.

References windowManager::window_t::currentState, DoesExistByName(), GetInstance(), GetWindowByName(), IsInitialized(), MAXIMIZED, NOT INITIALIZED, TinyWindow PrintErrorMessage(), and WINDOW NOT FOUND.

```
if ( GetInstance() -> IsInitialized() )
1219
1220
1221
                 if ( DoesExistByName( windowName ) )
1222
                     return (GetWindowByName(windowName) ->currentState ==
1223
      tinyWindowState_t::MAXIMIZED);
1224
1225
1226
                 TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
1227
                return false;
1228
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
1230
             return false;
1231
```

Here is the call graph for this function:



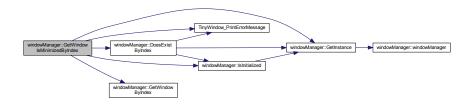
```
4.2.3.29 static bool windowManager::GetWindowlsMinimizedByIndex ( unsigned int windowIndex ) [inline], [static]
```

Returns whether the given window is minimized

Definition at line 1161 of file TinyWindow.h.

References windowManager::window_t::currentState, DoesExistByIndex(), GetInstance(), GetWindowByIndex(), IsInitialized(), MINIMIZED, NOT_INITIALIZED, TINYWINDOW_ERROR, and TinyWindow_PrintErrorMessage().

```
1162
             if ( GetInstance()->IsInitialized() )
1164
                 if ( DoesExistByIndex( windowIndex ) )
1165
1166
                      return (GetWindowByIndex(windowIndex)->currentState ==
1167
      tinyWindowState_t::MINIMIZED);
1168
                 return (bool)tinyWindowError_t::TINYWINDOW_ERROR;
1170
             {\tt TinyWindow\_PrintErrorMessage(}
1171
      tinyWindowError_t::NOT_INITIALIZED );
1172
             return (bool)tinyWindowError_t::TINYWINDOW_ERROR;
1173
```



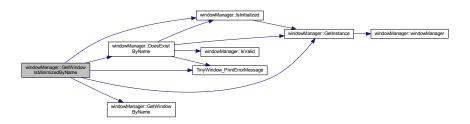
```
4.2.3.30 static bool windowManager::GetWindowIsMinimizedByName ( const char * windowName ) [inline], [static]
```

Returns whether the given window is minimized

Definition at line 1145 of file TinyWindow.h.

References windowManager::window_t::currentState, DoesExistByName(), GetInstance(), GetWindowByName(), IsInitialized(), MINIMIZED, NOT_INITIALIZED, TINYWINDOW_ERROR, and TinyWindow_PrintErrorMessage().

```
if ( GetInstance()->IsInitialized() )
1148
                   if ( DoesExistByName( windowName ) )
1149
1150
                       return (GetWindowByName(windowName) ->currentState ==
1151
      tinyWindowState_t::MINIMIZED);
1152
                   return (bool)tinyWindowError_t::TINYWINDOW_ERROR;
1154
              TinyWindow_PrintErrorMessage(
1155
      tinyWindowError_t::NOT_INITIALIZED );
    return (bool)tinyWindowError_t::TINYWINDOW_ERROR;
1156
1157
```



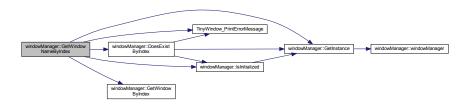
Get window name by index

Definition at line 1292 of file TinyWindow.h.

References DoesExistByIndex(), GetInstance(), GetWindowByIndex(), IsInitialized(), windowManager::window_t ::name, NOT_INITIALIZED, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
1293
              if ( GetInstance()->IsInitialized() )
1294
1295
1296
                   if ( DoesExistByIndex( windowIndex ) )
1297
1298
                       return GetWindowByIndex( windowIndex ) ->name;
1299
      TinyWindow_PrintErrorMessage(tinyWindowError_t::WINDOW_NOT_FOUND);
1300
1301
                  return nullptr;
1302
1303
              TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
1304
              return nullptr;
1305
```

Here is the call graph for this function:



4.2.3.32 static bool windowManager::GetWindowPositionByIndex (unsigned int windowIndex, unsigned int & x, unsigned int & y) [inline], [static]

Return the Position of the given window relative to screen co-ordinates by setting X and Y

Definition at line 689 of file TinyWindow.h.

 $References\ DoesExistByIndex(),\ GetInstance(),\ GetWindowByIndex(),\ IsInitialized(),\ NOT_INITIALIZED,\ window \\ \\ Manager::window_t::position,\ TinyWindow_PrintErrorMessage(),\ and\ WINDOW_NOT_FOUND.$

```
690
691
            if ( GetInstance()->IsInitialized() )
692
693
                if ( DoesExistByIndex( windowIndex ) )
694
695
                     x = GetWindowByIndex( windowIndex )->position[ 0 ];
                     y = GetWindowByIndex( windowIndex )->position[ 1 ];
696
697
                     return true;
698
699
                TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
700
                return false;
701
            TinyWindow_PrintErrorMessage(
702
      tinyWindowError_t::NOT_INITIALIZED );
703
            return false;
704
```



```
4.2.3.33 static unsigned int* windowManager::GetWindowPositionByIndex ( unsigned int windowIndex ) [inline], [static]
```

Return the Position of the given window relative to screen co-ordinates as an array

Definition at line 727 of file TinyWindow.h.

References DoesExistByIndex(), GetInstance(), GetWindowByIndex(), IsInitialized(), NOT_INITIALIZED, window Manager::window_t::position, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
728
729
            if ( GetInstance()->IsInitialized() )
730
731
                if ( DoesExistByIndex( windowIndex ) )
732
                    return GetWindowByIndex( windowIndex )->position;
733
734
735
                TinyWindow PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
736
                return nullptr;
737
738
            TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
739
            return nullptr;
740
```

Here is the call graph for this function:



4.2.3.34 static bool windowManager::GetWindowPositionByName (const char * windowName, unsigned int & x, unsigned int & y) [inline], [static]

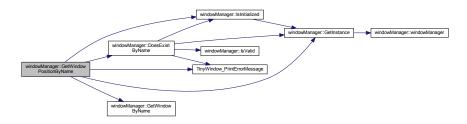
Return the Position of the given window relative to screen co-ordinates by setting X and Y

Definition at line 670 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), GetWindowByName(), IsInitialized(), NOT_INITIALIZED, windowManager::window_t::position, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
672
              if ( GetInstance()->IsInitialized() )
673
674
                  if ( DoesExistByName( windowName ) )
675
676
                       x = GetWindowByName( windowName )->position[ 0 ];
                       y = GetWindowByName( windowName )->position[ 1 ];
678
679
      TinyWindow_PrintErrorMessage(
tinyWindowError_t::WINDOW_NOT_FOUND);
return false;
680
681
682
683
              TinyWindow_PrintErrorMessage(
       tinyWindowError_t::NOT_INITIALIZED );
684
              return false;
685
```

Here is the call graph for this function:



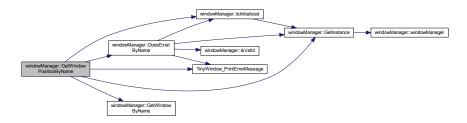
```
4.2.3.35 static unsigned int* windowManager::GetWindowPositionByName ( const char * windowName ) [inline], [static]
```

Return the Position of the given window relative to screen co-ordinates as an array

Definition at line 709 of file TinyWindow.h.

 $References \quad DoesExistByName(), \quad GetInstance(), \quad GetWindowByName(), \quad IsInitialized(), \quad NOT_INITIALIZED, \\ windowManager::window_t::position, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.$

```
710
             if ( GetInstance()->IsInitialized() )
711
712
713
                  if ( DoesExistByName( windowName ) )
714
715
                      return GetWindowByName( windowName )->position;
716
                 TinyWindow_PrintErrorMessage(
717
      tinyWindowError_t::WINDOW_NOT_FOUND);
718
                 return nullptr;
719
720
      TinyWindow_PrintErrorMessage(
tinyWindowError_t::NOT_INITIALIZED);
721
             return nullptr;
722
723
```



4.2.3.36 static bool windowManager::GetWindowResolutionByIndex (unsigned int windowIndex, unsigned int & width, unsigned int & height) [inline], [static]

Return the Resolution of the given window by setting width and height

Definition at line 565 of file TinyWindow.h.

References DoesExistByIndex(), GetInstance(), GetWindowByIndex(), IsInitialized(), NOT_INITIALIZED, window Manager::window_t::resolution, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
566
567
             if ( GetInstance()->IsInitialized() )
568
569
                     ( DoesExistByIndex( windowIndex ) )
570
                       width = GetWindowByIndex( windowIndex )->
571
      resolution[ 0 ];
572
                      height = GetWindowByIndex( windowIndex )->
      resolution[ 1 ];
573
574
                       return true;
575
      TinyWindow_PrintErrorMessage(
tinyWindowError_t::WINDOW_NOT_FOUND);
return false;
576
577
578
580
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
581
             return false;
582
```



Return the Resolution of the Given Window as an array of doubles

Definition at line 605 of file TinyWindow.h.

References DoesExistByIndex(), GetInstance(), GetWindowByIndex(), IsInitialized(), NOT_INITIALIZED, window Manager::window_t::resolution, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
606
607
            if ( GetInstance()->IsInitialized() )
608
                if ( DoesExistByIndex( windowIndex ) )
609
610
611
                     return GetWindowByIndex( windowIndex )->
      resolution:
612
                TinyWindow PrintErrorMessage(
613
      tinyWindowError_t::WINDOW_NOT_FOUND);
614
                return nullptr;
615
616
617
            TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
618
            return nullptr;
619
```

Here is the call graph for this function:



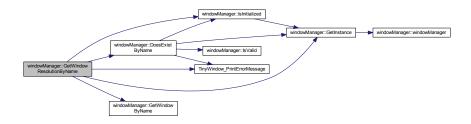
4.2.3.38 static bool windowManager::GetWindowResolutionByName (const char * windowName, unsigned int & width, unsigned int & height) [inline], [static]

Return the Resolution of the given window by setting width and height

Definition at line 546 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), GetWindowByName(), IsInitialized(), NOT_INITIALIZED, windowManager::window_t::resolution, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
547
548
            if ( GetInstance()->IsInitialized() )
549
                if ( DoesExistByName( windowName ) )
550
551
                    width = GetWindowByName( windowName )->resolution[ 0 ];
553
                    height = GetWindowByName( windowName )->
      resolution[ 1 ];
554
                    return false:
555
556
                TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
557
                return false;
558
            TinyWindow_PrintErrorMessage(
559
      tinyWindowError_t::NOT_INITIALIZED );
560
            return false;
561
```



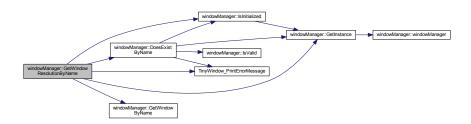
```
4.2.3.39 static unsigned int* windowManager::GetWindowResolutionByName ( const char * windowName ) [inline], [static]
```

Return the Resolution of the given Window as an array of doubles

Definition at line 587 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), GetWindowByName(), IsInitialized(), NOT_INITIALIZED, windowManager::window_t::resolution, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
588
            if ( GetInstance()->IsInitialized() )
589
590
                if ( DoesExistByName( windowName ) )
591
592
593
                     return GetWindowByName( windowName ) -> resolution;
594
595
                TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
596
                return nullptr;
597
598
599
            TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
600
            return nullptr;
601
```



4.2.3.40 static bool windowManager::GetWindowShouldCloseByIndex (unsigned int windowIndex) [inline], [static]

Return whether the given window should be closing

Definition at line 965 of file TinyWindow.h.

References DoesExistByIndex(), GetInstance(), GetWindowByIndex(), IsInitialized(), NOT_INITIALIZED, window Manager::window t::shouldClose, TinyWindow PrintErrorMessage(), and WINDOW NOT FOUND.

Referenced by main().

```
966
967
              ( GetInstance()->IsInitialized() )
968
                if ( DoesExistByIndex( windowIndex ) )
969
970
971
                    return GetWindowByIndex( windowIndex ) ->
      shouldClose;
972
973
                TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
974
                return false;
975
976
977
            TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
978
            return false;
979
```

Here is the call graph for this function:



```
windowManager::GetWindow
ShouldCloseByIndex main
```

```
4.2.3.41 static bool windowManager::GetWindowShouldCloseByName ( const char * windowName ) [inline], [static]
```

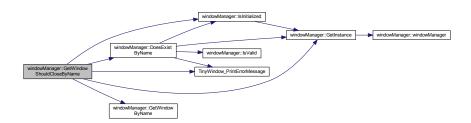
Return whether the given window should be closing

Definition at line 947 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), GetWindowByName(), IsInitialized(), NOT_INITIALIZED, windowManager::window_t::shouldClose, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
948
949
            if ( GetInstance()->IsInitialized() )
950
                if ( DoesExistByName( windowName ) )
951
953
                    return GetWindowByName( windowName )->shouldClose;
954
955
                TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
956
                return false;
957
958
959
            TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
960
            return false;
961
```

Here is the call graph for this function:



4.2.3.42 static bool windowManager::Initialize (void) [inline], [static]

Initialize the window manager

Definition at line 1552 of file TinyWindow.h.

References GetInstance(), instance, isInitialized, screenResolution, TinyWindow_PrintErrorMessage(), and WIN \leftarrow DOWS_CANNOT_INITIALIZE.

Referenced by main().

```
1553
             GetInstance()->isInitialized = false;
1554
1555 #if defined( _WIN32 ) || defined( _WIN64 )
             CreateTerminal();
1556
1557
             RECT desktop;
1558
1559
             HWND desktopHandle = GetDesktopWindow();
1560
1561
             if (desktopHandle)
1562
1563
                 GetWindowRect(desktopHandle, &desktop);
```

```
1565
                 instance->screenResolution[0] = desktop.right;
                 instance->screenResolution[1] = desktop.bottom;
1566
1567
                 instance->isInitialized = true;
1568
                 return true;
1569
1570
1571
            TinyWindow_PrintErrorMessage(
     tinyWindowError_t::WINDOWS_CANNOT_INITIALIZE);
1572
             return false;
1573 #elif defined(__linux_
1574
             instance->currentDisplay = XOpenDisplay(0);
1575
1576
             if (!instance->currentDisplay)
1577
1578
                 TinyWindow_PrintErrorMessage(
     tinyWindowError_t::LINUX_CANNOT_CONNECT_X_SERVER);
1579
                 return false;
1580
1582
             instance->screenResolution[0] = WidthOfScreen(
1583
                 {\tt XScreenOfDisplay(instance->currentDisplay,}
1584
                 DefaultScreen(instance->currentDisplay)));
1585
1586
             instance->screenResolution[1] = HeightOfScreen(
1587
                XScreenOfDisplay(instance->currentDisplay,
1588
                 DefaultScreen(instance->currentDisplay)));
1589
1590
             instance->isInitialized = true;
1591
             return true;
1592 #endif
1593
```

Here is the call graph for this function:



Here is the caller graph for this function:



4.2.3.43 static bool windowManager::IsInitialized (void) [inline], [static]

Return whether the window manager has been initialized

Definition at line 1598 of file TinyWindow.h.

References GetInstance(), and isInitialized.

Referenced by AddWindow(), DisableWindowDecoratorByIndex(), DisableWindowDecoratorByName(), Does← ExistByIndex(), DoesExistByName(), EnableWindowDecoratorsByIndex(), EnableWindowDecoratorsByName(), FocusWindowByIndex(), FocusWindowByName(), GetMousePositionInScreen(), GetMousePositionInWindow ByIndex(), GetMousePositionInWindowByName(), GetNumWindows(), GetScreenResolution(), GetWindow← IndexByName(), GetWindowIsFullScreenByIndex(), GetWindowIsFullScreenByName(), GetWindowIsInFocus← ByIndex(), GetWindowIsInFocusByName(), GetWindowIsMaximizedByIndex(), GetWindowIsMaximizedByName(), GetWindowIsMinimizedByIndex(), GetWindowIsMinimizedByName(), GetWindowNameByIndex(), GetWindow↔ PositionByIndex(), GetWindowPositionByName(), GetWindowResolutionByIndex(), GetWindowResolutionBy⊷ Name(), GetWindowShouldCloseByIndex(), GetWindowShouldCloseByName(), MakeWindowCurrentContext ← ByIndex(), MakeWindowCurrentContextByName(), MaximizeWindowByIndex(), MaximizeWindowByName(), MinimizeWindowByIndex(), MinimizeWindowByName(), PollForEvents(), RemoveWindowByIndex(), Remove← WindowByName(), RestoreWindowByIndex(), RestoreWindowByName(), SetFullScreenByIndex(), SetFull← ScreenByName(), SetMousePositionInScreen(), SetMousePositionInWindowByIndex(), SetMousePositionIn← WindowByName(), SetWindowOnDestroyedByIndex(), SetWindowOnDestroyedByName(), SetWindowOnFocus← ByIndex(), SetWindowOnFocusByName(), SetWindowOnKeyEventByIndex(), SetWindowOnKeyEventByName(), SetWindowOnMaximizedByIndex(), SetWindowOnMaximizedByName(), SetWindowOnMinimizedByIndex(), Set ← WindowOnMinimizedByName(), SetWindowOnMouseButtonEventByIndex(), SetWindowOnMouseButtonEvent↔ ByName(), SetWindowOnMouseMoveByIndex(), SetWindowOnMouseMoveByName(), SetWindowOnMouse ← WheelEventByIndex(), SetWindowOnMouseWheelEventByName(), SetWindowOnMovedByIndex(), SetWindow← OnMovedByName(), SetWindowOnResizeByIndex(), SetWindowOnResizeByName(), SetWindowPositionBy ← Index(), SetWindowPositionByName(), SetWindowResolutionByIndex(), SetWindowResolutionByName(), Set ← WindowStyleByIndex(), SetWindowStyleByName(), SetWindowTitleBarByIndex(), SetWindowTitleBarByName(), ShutDown(), WaitForEvents(), WindowGetKeyByIndex(), WindowGetKeyByName(), WindowSwapBuffersByIndex(), and WindowSwapBuffersByName().

```
1599 {
1600          return GetInstance()->isInitialized;
1601    }
```

Here is the call graph for this function:

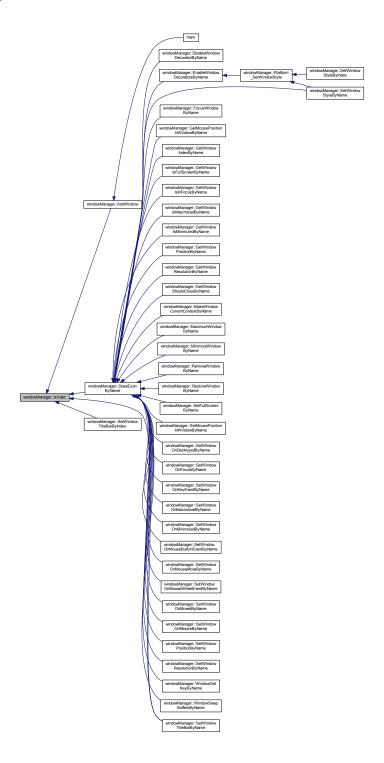
```
windowManager::IsInitialized windowManager::GetInstance windowManager::windowManager
```

```
4.2.3.44 static bool windowManager::lsValid ( const char * stringParameter ) [inline], [static], [private]
```

Definition at line 2421 of file TinyWindow.h.

 $Referenced\ by\ AddWindow(),\ DoesExistByName(),\ SetWindowTitleBarByIndex(),\ and\ SetWindowTitleBarBy \\ Name().$

Here is the caller graph for this function:



4.2.3.45 static bool windowManager::MakeWindowCurrentContextByIndex (unsigned int windowIndex) [inline], [static]

Make the given window be the current OpenGL Context to be drawn to

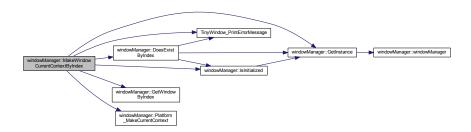
Definition at line 1045 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByIndex(), GetInstance(), Get ← WindowByIndex(), IsInitialized(), NOT_INITIALIZED, Platform_MakeCurrentContext(), TinyWindow_PrintError ← Message(), and WINDOW_NOT_FOUND.

Referenced by main().

```
1046
1047
             if (GetInstance()->IsInitialized())
1048
                 if (DoesExistByIndex(windowIndex))
1049
1050
                      window_t* window = GetWindowByIndex(windowIndex);
1052
                     Platform_MakeCurrentContext(window);
1053
1054
                     return true;
1055
                 TinyWindow_PrintErrorMessage(
1056
     tinyWindowError_t::WINDOW_NOT_FOUND);
1057
                 return false;
1058
             TinyWindow_PrintErrorMessage(
1059
      tinyWindowError_t::NOT_INITIALIZED );
1060
             return false;
1061
```

Here is the call graph for this function:



Here is the caller graph for this function:



4.2.3.46 static bool windowManager::MakeWindowCurrentContextByName (const char * windowName) [inline], [static]

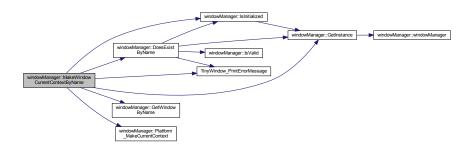
Make the given window be the current OpenGL Context to be drawn to

Definition at line 1025 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByName(), GetInstance(), Get \leftarrow WindowByName(), IsInitialized(), NOT_INITIALIZED, Platform_MakeCurrentContext(), TinyWindow_PrintError \leftarrow Message(), and WINDOW_NOT_FOUND.

```
1027
             if ( GetInstance() -> IsInitialized() )
1028
1029
                  if ( DoesExistByName( windowName ) )
1030
1031
                      window_t* window = GetWindowByName(windowName);
1032
                      Platform_MakeCurrentContext(window);
1033
1034
                      return true;
1035
                 TinyWindow_PrintErrorMessage(
1036
      tinyWindowError_t::WINDOW_NOT_FOUND);
1037
                 return false;
1038
1039
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
1040
             return false;
1041
```

Here is the call graph for this function:



4.2.3.47 static bool windowManager::MaximizeWindowByIndex (unsigned int windowIndex, bool newState) [inline], [static]

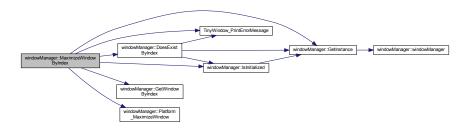
Toggle the maximization state of the current window

Definition at line 1272 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByIndex(), GetInstance(), Get \leftarrow WindowByIndex(), IsInitialized(), NOT_INITIALIZED, Platform_MaximizeWindow(), TinyWindow_PrintError \leftarrow Message(), and WINDOW_NOT_FOUND.

```
1273
1274
              if (GetInstance()->IsInitialized())
1275
1276
                   if (DoesExistByIndex(windowIndex))
1277
1278
                       window_t* window = GetWindowByIndex(windowIndex);
1279
                       Platform_MaximizeWindow(window, newState);
1280
                       return true:
1281
                   TinyWindow_PrintErrorMessage(
1282
      tinyWindowError_t::WINDOW_NOT_FOUND);
1283
                  return false;
1284
      TinyWindow_PrintErrorMessage(
tinyWindowError_t::NOT_INITIALIZED);
1285
1286
              return false;
1287
```

Here is the call graph for this function:



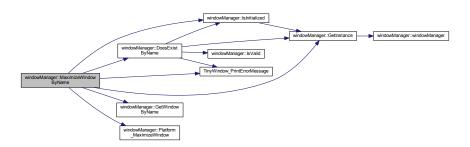
4.2.3.48 static bool windowManager::MaximizeWindowByName (const char * windowName, bool newState) [inline], [static]

Toggle the maximization state of the current window

Definition at line 1253 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByName(), GetInstance(), Get WindowByName(), IsInitialized(), NOT_INITIALIZED, Platform_MaximizeWindow(), TinyWindow_PrintError Message(), and WINDOW_NOT_FOUND.

```
1254
1255
             if ( GetInstance()->IsInitialized() )
1256
1257
                  if ( DoesExistByName( windowName ) )
1258
1259
                      window_t* window = GetWindowByName(windowName);
1260
                      Platform_MaximizeWindow(window, newState);
1261
                      return true;
1262
                 TinyWindow_PrintErrorMessage(
1263
      tinyWindowError_t::WINDOW_NOT_FOUND);
                 return false;
1265
             TinyWindow_PrintErrorMessage(
1266
      tinyWindowError_t::NOT_INITIALIZED );
1267
             return false;
1268
```



4.2.3.49 static bool windowManager::MinimizeWindowByIndex (unsigned int *windowIndex***, bool** *newState*) [inline], [static]

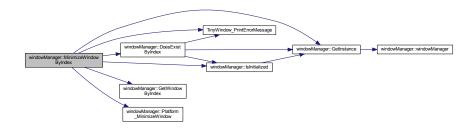
Toggle the minimization state of the window

Definition at line 1197 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByIndex(), GetInstance(), Get ← WindowByIndex(), IsInitialized(), NOT_INITIALIZED, Platform_MinimizeWindow(), TinyWindow_PrintError ← Message(), and WINDOW NOT FOUND.

```
1198
             if ( GetInstance()->IsInitialized() )
1199
1200
1201
                 if ( DoesExistByIndex( windowIndex ) )
1202
1203
                     window_t* window = GetWindowByIndex(windowIndex);
                     Platform_MinimizeWindow(window, newState);
1204
1205
                     return true;
1206
1207
                 TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
1208
                 return false;
1209
             TinyWindow_PrintErrorMessage(
1210
      tinyWindowError_t::NOT_INITIALIZED );
1211
             return false;
1212
```

Here is the call graph for this function:



4.2.3.50 static bool windowManager::MinimizeWindowByName (const char * windowName, bool newState) [inline], [static]

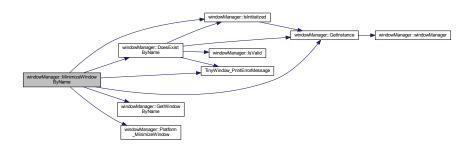
Toggle the minimization state of the given window

Definition at line 1178 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByName(), GetInstance(), Get WindowByName(), IsInitialized(), NOT_INITIALIZED, Platform_MinimizeWindow(), TinyWindow_PrintError Wessage(), and WINDOW_NOT_FOUND.

```
1180
             if ( GetInstance() ->IsInitialized() )
1181
1182
                  if ( DoesExistByName( windowName ) )
1183
                      window_t* window = GetWindowByName(windowName);
1184
                      Platform_MinimizeWindow(window, newState);
1185
1186
1187
1188
                 {\tt TinyWindow\_PrintErrorMessage(}
      tinyWindowError_t::WINDOW_NOT_FOUND);
1189
                 return false:
1190
             .
TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED);
1192
             return false;
1193
```

Here is the call graph for this function:



4.2.3.51 static void windowManager::Platform_DisableWindowDecorators (window_t * window, unsigned int decorators) [inline], [static], [private]

Definition at line 2890 of file TinyWindow.h.

References windowManager::window_t::currentWindowStyle, DECORATOR_BORDER, DECORATOR_CLOSE

BUTTON, DECORATOR_ICON, DECORATOR_MAXIMIZEBUTTON, DECORATOR_MINIMIZEBUTTON, DEC

ORATOR_SIZEABLEBORDER, and DECORATOR_TITLEBAR.

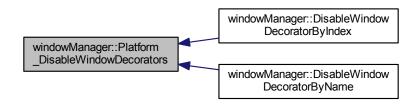
Referenced by DisableWindowDecoratorByIndex(), and DisableWindowDecoratorByName().

```
2891
2892 #if defined( WIN32 ) || defined( WIN64 )
2893
             if (decorators & DECORATOR BORDER)
2894
                 window->currentWindowStyle &= ~WS_BORDER;
2896
2897
2898
             if (decorators & DECORATOR_TITLEBAR)
2899
2900
                 window->currentWindowStyle &= ~WS MAXIMIZEBOX;
2901
2902
2903
             if (decorators & DECORATOR_ICON)
2904
2905
                 window->currentWindowStvle &= ~WS ICONIC;
2906
2907
2908
             if (decorators & DECORATOR_CLOSEBUTTON)
2909
2910
                 window->currentWindowStyle &= ~WS_SYSMENU;
2911
2912
2913
             if (decorators & DECORATOR_MINIMIZEBUTTON)
2914
```

```
window->currentWindowStyle &= ~WS_MINIMIZEBOX;
2916
2917
2918
             if (decorators & DECORATOR MAXIMIZEBUTTON)
2919
2920
                 window->currentWindowStyle &= ~WS_MAXIMIZEBOX;
2921
2922
2923
            if (decorators & DECORATOR_SIZEABLEBORDER)
2924
             {
2925
                 window->currentWindowStvle &= ~WS SIZEBOX;
2926
2927
2928
             SetWindowLongPtr(window->windowHandle, GWL_STYLE,
2929
                window->currentWindowStyle | WS_VISIBLE);
2930 #elif defined(__linux___)
             if (decorators & DECORATOR_CLOSEBUTTON)
2931
2932
            {
2933
                 //I hate doing this but it is necessary to keep functionality going.
2934
                 bool minimizeEnabled = false;
2935
                 bool maximizeEnabled = false;
2936
2937
                 if (decorators & DECORATOR MAXIMIZEBUTTON)
2938
                 {
2939
                     maximizeEnabled = true;
2940
2941
2942
                 if (decorators & DECORATOR_MINIMIZEBUTTON)
2943
2944
                     minimizeEnabled = true;
2945
2946
2947
                 window->currentWindowStyle &= ~LINUX_DECORATOR_CLOSE;
2948
2949
                 if (maximizeEnabled)
2950
2951
                     window->currentWindowStyle |= LINUX DECORATOR MAXIMIZE;
2952
2953
2954
                 if (minimizeEnabled)
2955
2956
                     window->currentWindowStyle |= LINUX DECORATOR MINIMIZE;
2957
2958
2959
                 window->decorators = 1;
2960
            }
2961
2962
             if (decorators & DECORATOR_MINIMIZEBUTTON)
2963
2964
                 window->currentWindowStyle &= ~LINUX_DECORATOR_MINIMIZE;
2965
                 window->decorators = 1;
2966
2967
2968
             if (decorators & DECORATOR MAXIMIZEBUTTON)
2969
2970
                 bool minimizeEnabled = false;
2971
2972
                 if (decorators & DECORATOR_MINIMIZEBUTTON)
2973
2974
                     minimizeEnabled = true;
2975
2976
2977
                 window->currentWindowStyle &= ~LINUX_DECORATOR_MAXIMIZE;
2978
2979
                 if (minimizeEnabled)
2980
2981
                     window->currentWindowStyle |= LINUX_DECORATOR_MINIMIZE;
2982
2983
2984
                 window->decorators = 1;
2985
           }
2986
2987
             if (decorators & DECORATOR_ICON)
2988
2989
                 //Linux ( at least cinnamon ) does not have icons in the window. only in the taskb ar icon
2990
2991
2992
             //just need to set it to 1 to enable all decorators that include title bar \,
2993
             if (decorators & DECORATOR_TITLEBAR)
2994
            {
2995
                 window->decorators = LINUX_DECORATOR_BORDER;
2996
2997
2998
             if (decorators & DECORATOR_BORDER)
2999
3000
                 window->decorators = 0;
3001
             }
```

```
3003
             if (decorators & DECORATOR_SIZEABLEBORDER)
3004
3005
                 window->decorators = 0;
3006
3007
             long hints[5] = { LINUX_FUNCTION | LINUX_DECORATOR, window->
3008
      currentWindowStyle, window->decorators, 0, 0 };
3009
3010
             XChangeProperty(instance->currentDisplay, window->windowHandle, window->AtomHints, XA_ATOM,
       32.
3011
                 PropModeReplace, (unsigned char*)hints, 5);
3012
3013
             XMapWindow(instance->currentDisplay, window->windowHandle);
3014 #endif
3015
```

Here is the caller graph for this function:



```
4.2.3.52 static void windowManager::Platform_EnableWindowDecorators ( window_t * window, unsigned int decorators ) [inline], [static], [private]
```

Definition at line 2799 of file TinyWindow.h.

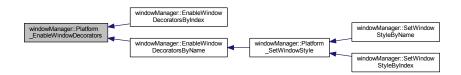
References windowManager::window_t::currentWindowStyle, DECORATOR_BORDER, DECORATOR_CLOSE
BUTTON, DECORATOR_ICON, DECORATOR_MAXIMIZEBUTTON, DECORATOR_MINIMIZEBUTTON, DEC

ORATOR SIZEABLEBORDER, and DECORATOR TITLEBAR.

Referenced by EnableWindowDecoratorsByIndex(), and EnableWindowDecoratorsByName().

```
2800
2801 #if defined( _WIN32 ) || defined( _WIN64 )
             window->currentWindowStyle = WS_VISIBLE | WS_CLIPSIBLINGS;
2802
2803
             if (decorators & DECORATOR_BORDER)
2805
2806
                 window->currentWindowStyle |= WS_BORDER;
2807
2808
2809
             if (decorators & DECORATOR_TITLEBAR)
2810
             {
2811
                 window->currentWindowStyle |= WS_CAPTION;
2812
2813
             if (decorators & DECORATOR_ICON)
2814
2815
2816
                 window->currentWindowStyle |= WS_ICONIC;
2817
2818
2819
             if (decorators & DECORATOR_CLOSEBUTTON)
2820
2821
                 window->currentWindowStvle |= WS SYSMENU;
2822
2823
```

```
if (decorators & DECORATOR_MINIMIZEBUTTON)
2825
2826
                  window->currentWindowStyle |= WS_MINIMIZEBOX | WS_SYSMENU;
2827
2828
             if (decorators & DECORATOR_MAXIMIZEBUTTON)
2829
2830
             {
2831
                  window->currentWindowStyle |= WS_MAXIMIZEBOX | WS_SYSMENU;
2832
2833
             if (decorators & DECORATOR SIZEABLEBORDER)
2834
2835
2836
                  window->currentWindowStyle |= WS_SIZEBOX;
2837
2838
2839
              SetWindowLongPtr(window->windowHandle, GWL_STYLE,
2840
                  window->currentWindowStvle);
2841 #elif defined(_linux_)
2842 if (decorators & DECORATOR_CLOSEBUTTON)
2843
              {
2844
                  window->currentWindowStyle |= LINUX_DECORATOR_CLOSE;
2845
                  window->decorators = 1;
2846
             }
2847
2848
              if (decorators & DECORATOR_MINIMIZEBUTTON)
2849
             {
2850
                  window->currentWindowStyle |= LINUX_DECORATOR_MINIMIZE;
2851
                  window->decorators = 1;
2852
             }
2853
2854
             if (decorators & DECORATOR MAXIMIZEBUTTON)
2855
             {
2856
                  window->currentWindowStyle |= LINUX_DECORATOR_MAXIMIZE;
2857
                  window->decorators = 1;
2858
2859
2860
             if (decorators & DECORATOR ICON)
2861
2862
                  // {
m Linux} ( at least cinnamon ) does not have icons in the window. only in the task bar icon
2863
2864
             //just need to set it to 1 to enable all decorators that include title bar if (decorators & DECORATOR_TITLEBAR)
2865
2866
2867
2868
                  window->decorators = 1;
2869
2870
2871
             if (decorators & DECORATOR_BORDER)
2872
2873
                  window->decorators = 1:
2874
2875
2876
             if (decorators & DECORATOR_SIZEABLEBORDER)
2877
2878
                  window->decorators = 1:
2879
2880
              long hints[5] = { LINUX_FUNCTION | LINUX_DECORATOR, window->
2881
      currentWindowStyle, window->decorators, 0, 0 };
2882
2883
              XChangeProperty(instance->currentDisplay, window->windowHandle, window->AtomHints, XA ATOM,
       32,
2884
                  PropModeReplace, (unsigned char*)hints, 5);
2885
2886
              XMapWindow(instance->currentDisplay, window->windowHandle);
2887 #endif
2888
         }
```



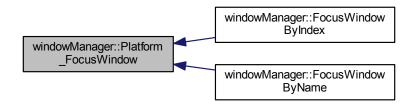
```
4.2.3.53 static void windowManager::Platform_FocusWindow ( window_t * window, bool newState ) [inline], [static], [private]
```

Definition at line 2686 of file TinyWindow.h.

Referenced by FocusWindowByIndex(), and FocusWindowByName().

```
2688
             if (newState)
2689
2690 #if defined( _WIN32 ) || defined( _WIN64 )
               SetFocus(window->windowHandle);
2691
2692 #elif defined(__linux__)
2693
                XMapWindow(instance->currentDisplay, window->windowHandle);
2694 #endif
2695
2696
2697
            else
2698
2699 #if defined(_WIN32) || defined(_WIN64)
2700
                 SetFocus(nullptr);
2701 #elif defined(__linux_
2702
               XUnmapWindow(instance->currentDisplay, window->windowHandle);
2703 #endif
2704
            }
2705
```

Here is the caller graph for this function:



```
4.2.3.54 static bool windowManager::Platform_InitializeGL ( window_t * window ) [inline], [static], [private]
```

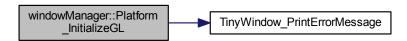
Definition at line 2455 of file TinyWindow.h.

References windowManager::window_t::contextCreated, INVALID_CONTEXT, and TinyWindow_PrintError \leftarrow Message().

```
2457 #if defined( \_WIN32 ) || defined( \_WIN64 )
2458
             window->deviceContextHandle = GetDC(window->windowHandle);
2459
             InitializePixelFormat(window);
             window->glRenderingContextHandle = wglCreateContext(window->deviceContextHandle);
2460
2461
             wglMakeCurrent(window->deviceContextHandle, window->glRenderingContextHandle);
2462
2463
             window->contextCreated = (window->glRenderingContextHandle != nullptr);
2464
             if (window->contextCreated)
2465
2466
2467
                 return true;
2468
```

```
2469
2470
              TinyWindow_PrintErrorMessage(
      tinyWindowError_t::INVALID_CONTEXT);
2471
             return false;
2472 #elif defined( linux
2473
              if (!window->context)
2474
2475
                   window->context = glXCreateContext(
2476
                        instance->currentDisplay,
2477
                        window->visualInfo,
2478
2479
                       true);
2480
2481
                   if (window->context)
2482
2483
                        glXMakeCurrent(instance->currentDisplay,
2484
                            window->windowHandle,
2485
                            window->context);
2486
2487
                        XWindowAttributes l_Attributes;
2488
2489
                        XGetWindowAttributes(instance->currentDisplay,
2490
                        window->windowHandle, &1_Attributes);
window->position[0] = 1_Attributes.x;
window->position[1] = 1_Attributes.y;
2491
2492
2493
2494
                        window->contextCreated = true;
2495
                        return true;
2496
2497
                   return false;
2498
              }
2499
2500
2501
              {
      TinyWindow_PrintErrorMessage(
tinyWindowError_t::EXISTING_CONTEXT);
2502
2503
                 return false;
2504
2505
               return false;
2506 #endif
2507
```

Here is the call graph for this function:



```
4.2.3.55 static void windowManager::Platform_InitializeWindow ( window_t * window ) [inline], [static], [private]
```

Definition at line 2446 of file TinyWindow.h.

Referenced by AddWindow().

```
2447 {
2448 #if defined(_WIN32) || defined(_WIN64)
2449 Windows_InitializeWindow(window);
2450 #elif defined(__linux__)
2451 Linux_InitializeWindow(window);
2452 #endif
2453 }
```

Here is the caller graph for this function:

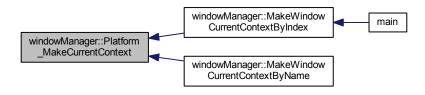


```
4.2.3.56 static void windowManager::Platform_MakeCurrentContext ( window_t * window ) [inline], [static], [private]
```

Definition at line 2567 of file TinyWindow.h.

Referenced by MakeWindowCurrentContextByIndex(), and MakeWindowCurrentContextByName().

Here is the caller graph for this function:



```
4.2.3.57 static void windowManager::Platform_MaximizeWindow ( window_t * window, bool newState ) [inline], [static], [private]
```

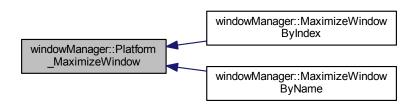
Definition at line 2628 of file TinyWindow.h.

References windowManager::window_t::currentState, MAXIMIZED, and NORMAL.

Referenced by MaximizeWindowByIndex(), and MaximizeWindowByName().

```
2629
         {
2630
             if (newState)
2631
2632
                 window->currentState = tinyWindowState_t::MAXIMIZED;
2633 #if defined( _WIN32 ) || defined( _WIN64 )
                 ShowWindow(window->windowHandle, SW_MAXIMIZE);
2634
2635 #elif defined(__linux__)
2636
                 XEvent currentEvent;
2637
                 memset(&currentEvent, 0, sizeof(currentEvent));
2638
2639
                 currentEvent.xany.type = ClientMessage;
                 currentEvent.xclient.message_type = window->AtomState;
2640
                 currentEvent.xclient.format = 32;
currentEvent.xclient.window = window->windowHandle;
2641
2642
2643
                 currentEvent.xclient.data.1[0] = (window->currentState ==
      tinyWindowState_t::MAXIMIZED);
2644
                 currentEvent.xclient.data.l[1] = window->AtomMaxVert;
2645
                 currentEvent.xclient.data.1[2] = window->AtomMaxHorz;
2646
2647
                 XSendEvent (instance->currentDisplay,
2648
                      XDefaultRootWindow(instance->currentDisplay),
2649
                      0, SubstructureNotifyMask, &currentEvent);
2650 #endif
2651
2652
2653
             else
2654
2655
                 window->currentState = tinyWindowState_t::NORMAL;
2656 #if defined( _WIN32 ) || defined( _WIN64 )
2657
                 ShowWindow(window->windowHandle, SW_RESTORE);
2658 #elif defined( linux )
2659
                 XEvent currentEvent;
2660
                 memset(&currentEvent, 0, sizeof(currentEvent));
2661
2662
                 currentEvent.xany.type = ClientMessage;
2663
                 currentEvent.xclient.message_type = window->AtomState;
                 currentEvent.xclient.format = 32;
currentEvent.xclient.window = window->windowHandle;
2664
2665
2666
                 currentEvent.xclient.data.1[0] = (window->currentState ==
      tinyWindowState_t::MAXIMIZED);
2667
                 currentEvent.xclient.data.l[1] = window->AtomMaxVert;
                 currentEvent.xclient.data.1[2] = window->AtomMaxHorz;
2668
2669
2670
                 XSendEvent (instance->currentDisplay,
2671
                      XDefaultRootWindow(instance->currentDisplay),
2672
                      0, SubstructureNotifyMask, &currentEvent);
2673 #endif
2674
2675
         }
```

Here is the caller graph for this function:



```
4.2.3.58 static void windowManager::Platform_MinimizeWindow ( window_t * window, bool newState ) [inline], [static], [private]
```

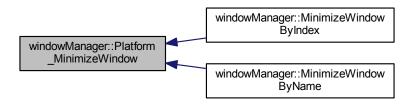
Definition at line 2603 of file TinyWindow.h.

References windowManager::window_t::currentState, MINIMIZED, and NORMAL.

Referenced by MinimizeWindowByIndex(), and MinimizeWindowByName().

```
2604
2605
           if (newState)
2606
              window->currentState = tinyWindowState_t::MINIMIZED;
2607
2608
2609 #if defined( _WIN32 ) || defined( _WIN64 )
             ShowWindow(window->windowHandle, SW_MINIMIZE);
2610
2611 #elif defined(__linux_
2612
          XIconifyWindow(instance->currentDisplay,
2613
                  window->windowHandle, 0);
2614 #endif
           }
2615
2616
2617
2618
2622 #elif defined(__linux__)
              XMapWindow(instance->currentDisplay, window->windowHandle);
2624 #endif
2625
2626
```

Here is the caller graph for this function:

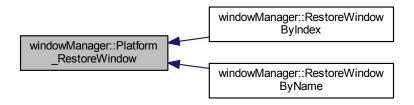


```
4.2.3.59 static void windowManager::Platform_RestoreWindow ( window_t * window ) [inline], [static], [private]
```

Definition at line 2707 of file TinyWindow.h.

 $Referenced\ by\ Restore Window By Index (),\ and\ Restore Window By Name ().$

Here is the caller graph for this function:



```
4.2.3.60 static void windowManager::Platform_SetFullScreen ( window_t * window ) [inline], [static], [private]
```

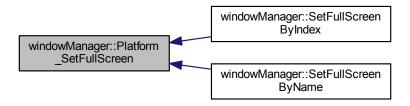
Definition at line 2578 of file TinyWindow.h.

References GetScreenResolution().

Referenced by SetFullScreenByIndex(), and SetFullScreenByName().

```
2580 #if defined( _WIN32 ) || defined( _WIN64 )
2581
              SetWindowLongPtr(window->windowHandle, GWL_STYLE,
                  WS_SYSMENU | WS_POPUP | WS_CLIPCHILDREN | WS_CLIPSIBLINGS | WS_VISIBLE);
2582
2583
             MoveWindow(window->windowHandle, 0, 0,
2584
      windowManager::GetScreenResolution()[0],
2585
                  windowManager::GetScreenResolution()[1], true);
2586 #elif defined(__linux_
2587
             XEvent currentEvent;
2588
             memset(&currentEvent, 0, sizeof(currentEvent));
2589
             currentEvent.xany.type = ClientMessage;
2590
              currentEvent.xclient.message_type = window->AtomState;
              currentEvent.xclient.format = 32;
currentEvent.xclient.window = window->windowHandle;
2592
2593
      currentEvent.xclient.data.1[0] = window->currentState ==
tinyWindowState_t::FULLSCREEN;
2594
2595
             currentEvent.xclient.data.l[1] = window->AtomFullScreen;
2596
2597
              XSendEvent (instance->currentDisplay,
2598
                  XDefaultRootWindow(instance->currentDisplay),
2599
                  0, SubstructureNotifyMask, &currentEvent);
2600 #endif
2601
```

Here is the caller graph for this function:

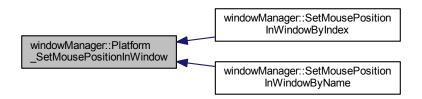


4.2.3.61 static void windowManager::Platform_SetMousePositionInWindow (window_t * window, unsigned int x, unsigned int y) [inline], [static], [private]

Definition at line 2540 of file TinyWindow.h.

Referenced by SetMousePositionInWindowByIndex(), and SetMousePositionInWindowByName().

```
2541
2542 #if defined( _WIN32 ) || defined( _WIN64 )
2543 POINT mousePoint;
                  mousePoint.x = x;
mousePoint.y = y;
ScreenToClient(window->windowHandle, &mousePoint);
2544
2545
2546
2547
                  SetCursorPos(mousePoint.x, mousePoint.y);
2548 #elif defined(__linux__)
2549
                  XWarpPointer(
2550
                        windowManager::GetDisplay(),
                        window->windowHandle, window->windowHandle,
window->position[0], window->position[1],
window->resolution[0], window->resolution[1],
2551
2552
2554
                        x, y);
2555 #endif
2556
```



```
4.2.3.62 static void windowManager::Platform_SetWindowPosition ( window_t * window, unsigned int x, unsigned int y ) [inline], [static], [private]
```

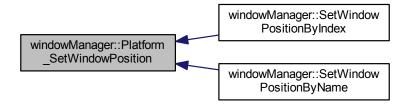
Definition at line 2522 of file TinyWindow.h.

References windowManager::window_t::resolution.

Referenced by SetWindowPositionByIndex(), and SetWindowPositionByName().

```
2523
2524 #if defined( _WIN32 ) || defined( _WIN64 )
             SetWindowPos(window->windowHandle, HWND_TOP, x, y,
                window->resolution[0], window->resolution[1],
2527
                 SWP_SHOWWINDOW | SWP_NOSIZE);
2528 #elif defined(__linux__)
2529
            XWindowChanges windowChanges;
2530
2531
             windowChanges.x = x;
2532
             windowChanges.y = y;
2533
2534
             XConfigureWindow(
                 instance->currentDisplay,
2535
                 window->windowHandle, CWX | CWY, &windowChanges);
2536
2537 #endif
```

Here is the caller graph for this function:



```
4.2.3.63 static void windowManager::Platform_SetWindowResolution ( window_t * window ) [inline], [static], [private]
```

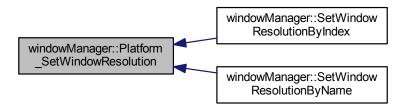
Definition at line 2509 of file TinyWindow.h.

References windowManager::window_t::position, and windowManager::window_t::resolution.

Referenced by SetWindowResolutionByIndex(), and SetWindowResolutionByName().

```
2510
2511 #if defined( _WIN32 ) || defined( _WIN64 )
              SetWindowPos(window->windowHandle, HWND_TOP,
2512
                  window->position[0], window->position[1],
window->resolution[0], window->resolution[1],
2513
2514
2515
                   SWP_SHOWWINDOW | SWP_NOMOVE);
2516 #elif defined(__linux__)
              XResizeWindow(instance->currentDisplay,
2517
2518
                   window->windowHandle, window->resolution[0], window->resolution[1]);
2519 #endif
2520
```

Here is the caller graph for this function:



```
4.2.3.64 static void windowManager::Platform_SetWindowStyle ( window_t * window, tinyWindowStyle_t windowStyle ) [inline], [static], [private]
```

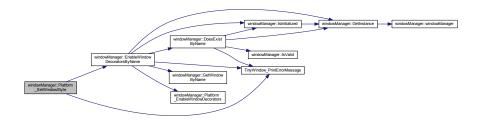
Definition at line 2716 of file TinyWindow.h.

References BARE, DECORATOR_BORDER, DECORATOR_CLOSEBUTTON, DECORATOR_MAXIMIZEBUT
TON, DECORATOR_MINIMIZEBUTTON, DECORATOR_TITLEBAR, DEFAULT, EnableWindowDecoratorsBy
Name(), INVALID_WINDOWSTYLE, windowManager::window_t::name, POPUP, and TinyWindow_PrintError
Message().

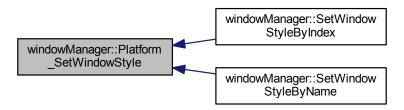
Referenced by SetWindowStyleByIndex(), and SetWindowStyleByName().

```
2717
2718 #if defined( _WIN32 ) || defined( _WIN64 )
2719
           switch (windowStyle)
2720
2721
             case tinyWindowStyle_t::DEFAULT:
2722
                 EnableWindowDecoratorsByName(window->name,
2723
     DECORATOR_TITLEBAR | DECORATOR_BORDER |
2724
                     DECORATOR_CLOSEBUTTON |
     DECORATOR_MINIMIZEBUTTON | DECORATOR_MAXIMIZEBUTTON);
2725
                 break;
2726
2727
             case tinyWindowStyle_t::POPUP:
2730
                 EnableWindowDecoratorsByName(window->name, 0);
2731
2732
2733
2734
             case tinvWindowStvle t::BARE:
            {
2736
                 EnableWindowDecoratorsByName(window->name,
     DECORATOR_TITLEBAR | DECORATOR_BORDER);
2737
                 break;
2738
2739
2740
            default:
2741
            {
2742
                 TinyWindow_PrintErrorMessage(
     tinyWindowError_t::INVALID_WINDOWSTYLE);
2743
                break:
2744
2746
2747 #elif defined(__linux_
2748
           switch (windowStyle)
2749
2750
                 case tinvWindowStvle t::DEFAULT:
2751
2752
                 window->decorators = (1L << 2);</pre>
```

```
window->currentWindowStyle = LINUX_DECORATOR_MOVE | LINUX_DECORATOR_CLOSE |
2753
2754
                      LINUX_DECORATOR_MAXIMIZE | LINUX_DECORATOR_MINIMIZE;
2755
                  long Hints[5] = { LINUX_FUNCTION | LINUX_DECORATOR, window->
      currentWindowStyle, window->decorators, 0, 0 };
2756
2757
                  XChangeProperty(instance->currentDisplay, window->windowHandle, window->AtomHints,
      XA_ATOM, 32, PropModeReplace,
2758
                       (unsigned char*) Hints, 5);
2759
2760
                  XMapWindow(instance->currentDisplay, window->windowHandle);
2761
2762
2763
2764
                  case tinyWindowStyle_t::BARE:
2765
2766
                  window->decorators = (1L << 2);
                  window->currentWindowStyle = (1L << 2);
long Hints[5] = { LINUX_FUNCTION | LINUX_DECORATOR, window->
2767
2768
      currentWindowStyle, window->decorators, 0, 0 };
2769
2770
                  XChangeProperty(instance->currentDisplay, window->windowHandle, window->AtomHints,
      XA_ATOM, 32, PropModeReplace,
2771
                      (unsigned char*) Hints, 5);
2772
2773
                  XMapWindow(instance->currentDisplay, window->windowHandle);
2774
                  break;
2775
2776
2777
                  case tinyWindowStyle_t::POPUP:
2778
2779
                  window->decorators = 0:
                  window->currentWindowStyle = (1L << 2);
long Hints[5] = { LINUX_FUNCTION | LINUX_DECORATOR, window->
2780
2781
      currentWindowStyle, window->decorators, 0, 0 };
2782
2783
                  XChangeProperty(instance->currentDisplay, window->windowHandle, window->AtomHints,
      XA_ATOM, 32, PropModeReplace,
2784
                       (unsigned char*) Hints, 5);
2785
2786
                  XMapWindow(instance->currentDisplay, window->windowHandle);
2787
                  break;
2788
              }
2789
2790
              default:
2791
              {
2792
                  TinyWindow_PrintErrorMessage(
      tinyWindowError_t::INVALID_WINDOWSTYLE);
2793
                  break;
2794
2795
2796 #endif
2797
```



Here is the caller graph for this function:

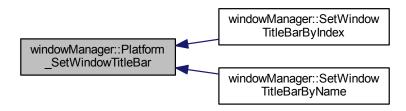


```
4.2.3.65 static void windowManager::Platform_SetWindowTitleBar ( window_t * window, const char * newTitle ) [inline], [static], [private]
```

Definition at line 2677 of file TinyWindow.h.

Referenced by SetWindowTitleBarByIndex(), and SetWindowTitleBarByName().

Here is the caller graph for this function:

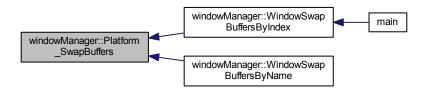


```
4.2.3.66 static void windowManager::Platform_SwapBuffers ( window_t * window ) [inline], [static], [private]
```

Definition at line 2558 of file TinyWindow.h.

Referenced by WindowSwapBuffersByIndex(), and WindowSwapBuffersByName().

Here is the caller graph for this function:



4.2.3.67 static void windowManager::PollForEvents (void) [inline], [static]

Ask the window manager to poll for events

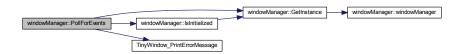
Definition at line 1606 of file TinyWindow.h.

References GetInstance(), instance, IsInitialized(), NOT_INITIALIZED, and TinyWindow_PrintErrorMessage().

Referenced by main().

```
1607
1608
             if ( GetInstance()->IsInitialized() )
1609
1610 #if defined( _WIN32 ) || defined( _WIN64 )
                  //only process events if there are any to process
1612
                  if (PeekMessage(&instance->message, 0, 0, 0, PM_REMOVE))
1613
1614
                      TranslateMessage(&instance->message);
1615
                      DispatchMessage(&instance->message);
1616
1617 #elif defined(_
                      _linux___)
1618
                  //if there are any events to process
1619
                  if (XEventsQueued(instance->currentDisplay, QueuedAfterReading))
1620
1621
                      XNextEvent(instance->currentDisplay, &instance->currentEvent);
1622
1623
                      XEvent currentEvent = instance->currentEvent;
1624
1625
                      Linux_ProcessEvents(currentEvent);
1626
1627 #endif
1628
1629
1630
1631
      TinyWindow_PrintErrorMessage(
tinyWindowError_t::NOT_INITIALIZED );
1632
1633
              }
1634
```

Here is the call graph for this function:



Here is the caller graph for this function:



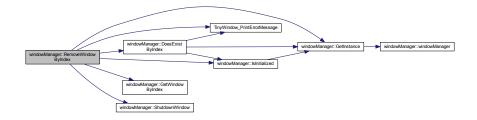
4.2.3.68 static bool windowManager::RemoveWindowByIndex (unsigned int windowIndex) [inline], [static]

Remove window from the manager by index

Definition at line 1685 of file TinyWindow.h.

References DoesExistByIndex(), GetInstance(), GetWindowByIndex(), IsInitialized(), NOT_INITIALIZED, ShutdownWindow(), TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
1686
1687
            if ( GetInstance()->IsInitialized() )
1688
               if ( DoesExistByIndex( windowIndex ) )
1689
1690
1691
                   ShutdownWindow( GetWindowByIndex( windowIndex ) );
1692
1693
               TinyWindow_PrintErrorMessage(
1694
     1695
1696
1697
           TinyWindow_PrintErrorMessage(
     tinyWindowError_t::NOT_INITIALIZED );
1698
           return false;
1699
```



4.2.3.69 static bool windowManager::RemoveWindowByName (const char * windowName) [inline], [static]

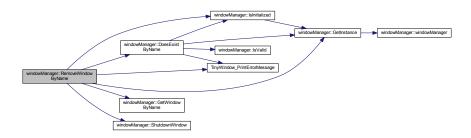
Remove window from the manager by name

Definition at line 1667 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), GetWindowByName(), IsInitialized(), NOT_INITIALIZED, ShutdownWindow(), TinyWindow PrintErrorMessage(), and WINDOW NOT FOUND.

```
1668
             if ( GetInstance() -> IsInitialized() )
1669
1670
1671
                  if ( DoesExistByName( windowName ) )
1672
                      ShutdownWindow( GetWindowByName( windowName ) );
1673
1674
                      return true;
1675
                 TinyWindow_PrintErrorMessage(
1676
      tinyWindowError_t::WINDOW_NOT_FOUND);
1677
                 return false;
1678
             TinyWindow PrintErrorMessage(
1679
      tinyWindowError_t::NOT_INITIALIZED );
1680
             return false;
1681
```

Here is the call graph for this function:



4.2.3.70 static bool windowManager::RestoreWindowByIndex (unsigned int windowIndex) [inline], [static]

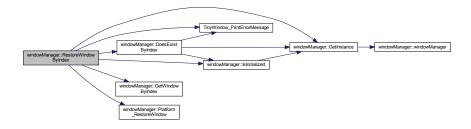
Restore the window by index

Definition at line 1532 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByIndex(), GetInstance(), Get \hookleftarrow WindowByIndex(), IsInitialized(), NOT_INITIALIZED, Platform_RestoreWindow(), TinyWindow_PrintError \hookleftarrow Message(), and WINDOW_NOT_FOUND.

```
1533
             if (GetInstance()->IsInitialized())
1534
1535
1536
                 if (DoesExistByIndex(windowIndex))
1537
1538
                      window_t* window = GetWindowByIndex(windowIndex);
1539
                     Platform_RestoreWindow(window);
1540
                     return true;
1541
1542
                 TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
1543
                 return false;
1544
             TinyWindow_PrintErrorMessage(
1545
      tinyWindowError_t::NOT_INITIALIZED);
1546
             return false;
1547
```

Here is the call graph for this function:



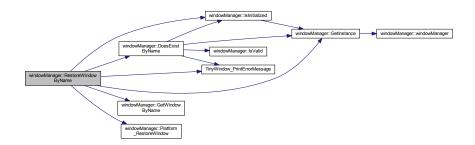
4.2.3.71 static bool windowManager::RestoreWindowByName (const char * windowName) [inline], [static]

Restore the window by name

Definition at line 1513 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByName(), GetInstance(), Get WindowByName(), IsInitialized(), NOT_INITIALIZED, Platform_RestoreWindow(), TinyWindow_PrintError Message(), and WINDOW_NOT_FOUND.

```
1514
              if ( GetInstance()->IsInitialized() )
1515
1516
1517
                   if ( DoesExistByName( windowName ) )
1518
1519
                       window_t* window = GetWindowByName(windowName);
1520
                       Platform_RestoreWindow(window);
1521
                       return true;
1522
                   .
TinyWindow_PrintErrorMessage(
1523
      tinyWindowError_t::WINDOW_NOT_FOUND);
1524
                  return false;
1525
      TinyWindow_PrintErrorMessage(
tinyWindowError_t::NOT_INITIALIZED);
1526
1527
              return false;
1528
```



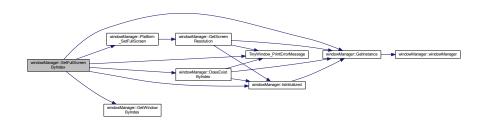
4.2.3.72 static bool windowManager::SetFullScreenByIndex (unsigned int windowIndex, bool newState) [inline], [static]

Definition at line 1123 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, windowManager::window_t::currentState, Does ExistByIndex(), FULLSCREEN, GetInstance(), GetWindowByIndex(), IsInitialized(), NORMAL, NOT_INITIALIZED, Platform_SetFullScreen(), TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
1124
1125
             if ( GetInstance()->IsInitialized() )
1126
                  if ( DoesExistByIndex( windowIndex ) )
1127
1128
1129
                      window_t* window = GetWindowByIndex(windowIndex);
1130
                      window->currentState = (newState == true) ?
      \verb|tinyWindowState_t::FULLSCREEN| :
      tinyWindowState_t::NORMAL;
1131
1132
                     Platform SetFullScreen(window);
1133
                     return true;
1134
1135
                  TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
1136
                 return false;
1137
             TinyWindow_PrintErrorMessage(
1138
      tinyWindowError_t::NOT_INITIALIZED );
1139
             return false;
1140
```

Here is the call graph for this function:



4.2.3.73 static bool windowManager::SetFullScreenByName (const char * windowName, bool newState) [inline], [static]

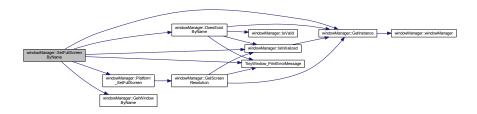
Toggle the given window's full screen mode

Definition at line 1101 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, windowManager::window_t::currentState, Does ExistByName(), FULLSCREEN, GetInstance(), GetWindowByName(), IsInitialized(), NORMAL, NOT_INITIALIZED, Platform_SetFullScreen(), TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
tinyWindowState_t::FULLSCREEN :
      tinyWindowState_t::NORMAL;
1110
1111
                     Platform_SetFullScreen(window);
1112
                      return true;
1113
                 .
TinyWindow_PrintErrorMessage(
1114
      tinyWindowError_t::WINDOW_NOT_FOUND);
1115
                 return false;
1116
             TinyWindow_PrintErrorMessage(
1117
      tinyWindowError_t::NOT_INITIALIZED );
1118
             return false;
1119
```

Here is the call graph for this function:



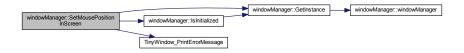
4.2.3.74 static bool windowManager::SetMousePositionInScreen (unsigned int x, unsigned int y) [inline], [static]

Set the position of the mouse cursor relative to screen co-ordinates

Definition at line 467 of file TinyWindow.h.

References GetInstance(), instance, IsInitialized(), NOT_INITIALIZED, screenMousePosition, and TinyWindow_ PrintErrorMessage().

```
468
469
             if ( GetInstance()->IsInitialized() )
470
                 instance->screenMousePosition[0] = x;
instance->screenMousePosition[1] = y;
471
472
473
474 #if defined( _WIN32 ) || defined( _WIN64 )
475
                 SetCursorPos(x, y);
476 #elif defined(__linux__)
477
                 XWarpPointer(instance->currentDisplay, None,
478
                      XDefaultRootWindow(instance->currentDisplay), 0, 0,
479
                      GetScreenResolution()[0].
480
                      GetScreenResolution()[1],
481
                      x, y);
482 #endif
483
                 return true;
484
             TinyWindow_PrintErrorMessage(
485
      tinyWindowError_t::NOT_INITIALIZED );
486
             return false;
```



4.2.3.75 static bool windowManager::SetMousePositionInWindowByIndex (unsigned int windowIndex, unsigned int x, unsigned int y) [inline], [static]

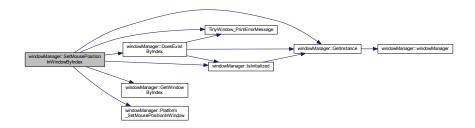
Set the mouse Position of the given window's co-ordinates

Definition at line 888 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByIndex(), GetInstance(), Get ← WindowByIndex(), IsInitialized(), windowManager::window_t::mousePosition, NOT_INITIALIZED, Platform_Set ← MousePositionInWindow(), TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
889
            if ( GetInstance()->IsInitialized() )
891
892
                if ( DoesExistByIndex( windowIndex ) )
893
894
                    GetWindowByIndex( windowIndex )->mousePosition[ 0 ] = x;
                    GetWindowByIndex( windowIndex )->mousePosition[ 1 ] = y;
895
896
                    window_t* window = GetWindowByIndex(windowIndex);
897
898
                    Platform_SetMousePositionInWindow(window, x, y);
899
                    return true;
900
                TinyWindow PrintErrorMessage(
901
      tinyWindowError_t::WINDOW_NOT_FOUND);
                return false;
902
903
904
            TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
905
            return false;
906
```

Here is the call graph for this function:



4.2.3.76 static bool windowManager::SetMousePositionInWindowByName (const char * windowName, unsigned int x, unsigned int y) [inline], [static]

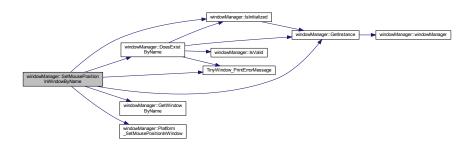
Set the mouse Position of the given window's co-ordinates

Definition at line 866 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByName(), GetInstance(), Get WindowByName(), IsInitialized(), windowManager::window_t::mousePosition, NOT_INITIALIZED, Platform_ SetMousePositionInWindow(), TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
867
868
             if ( GetInstance() -> IsInitialized() )
869
870
                 if ( DoesExistByName( windowName ) )
871
872
                     GetWindowByName( windowName ) -> mousePosition[ 0 ] = x;
873
                     GetWindowByName( windowName ) -> mousePosition[ 1 ] = y;
874
                     window_t* window = GetWindowByName(windowName);
875
                     Platform_SetMousePositionInWindow(window, x, y);
876
                     return true;
877
                 TinvWindow PrintErrorMessage(
878
      tinyWindowError_t::WINDOW_NOT_FOUND);
879
                 return false;
880
881
            {\tt TinyWindow\_PrintErrorMessage(}
882
      tinyWindowError_t::NOT_INITIALIZED );
883
            return false;
884
```

Here is the call graph for this function:



4.2.3.77 static bool windowManager::SetWindowlconByIndex (void) [inline], [static]

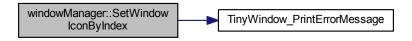
Set the window icon by index (currently not functional)

Definition at line 1408 of file TinyWindow.h.

References FUNCTION_NOT_IMPLEMENTED, and TinyWindow_PrintErrorMessage().

```
1409
1410
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::FUNCTION_NOT_IMPLEMENTED);
1411
             return false;
             /*if ( GetInstance()->IsInitialized() )
1412
1413
1414
                 if (IsValid(icon))
1415
1416
                     if (DoesExistByIndex(windowIndex))
1417
1418 #if defined( _WIN32 ) || defined( _WIN64 )
                         Windows_SetWindowIcon(GetWindowByIndex(windowIndex), icon, width, height);
1419
1420 #elif defined(__linux___)
1421
                         Linux_SetWindowIcon(GetWindowByIndex(windowIndex), icon, width, height);
1422 #endif
1423
                         return true;
1424
                     TinyWindow_PrintErrorMessage(tinyWindowError_t::TINYWINDOW_ERROR_WINDOW_NOT_FOUND);
1425
1426
                     return false;
1427
1428
                 TinyWindow_PrintErrorMessage(tinyWindowError_t::TINYWINDOW_ERROR_INVALID_ICON_PATH);
1429
1430
1431
             TinyWindow_PrintErrorMessage( tinyWindowError_t::TINYWINDOW_ERROR_NOT_INITIALIZED );
1432
             return false; */
1433
```

Here is the call graph for this function:



4.2.3.78 static bool windowManager::SetWindowIconByName(void) [inline], [static]

Set the window icon by name (currently not functional)

Definition at line 1377 of file TinyWindow.h.

References FUNCTION_NOT_IMPLEMENTED, and TinyWindow_PrintErrorMessage().

```
1378
             TinyWindow_PrintErrorMessage(
1379
      tinyWindowError_t::FUNCTION_NOT_IMPLEMENTED);
1380
             return false;
1381
         /* if ( GetInstance()->IsInitialized() )
1382
1383
                 if (IsValid(icon))
1384
1385
                     if (DoesExistByName(windowName))
1386
1387 #if defined( _WIN32 ) || defined( _WIN64 )
                         //Windows_SetWindowIcon(GetWindowByName(windowName), icon, width, height);
1388
1389 #elif defined(__linux__)
1390
                         //Linux_SetWindowIcon();//GetWindowByName(windowName), icon, width, height);
1391 #endif
1392
1393
                     TinyWindow_PrintErrorMessage(tinyWindowError_t::TINYWINDOW_ERROR_WINDOW_NOT_FOUND);
1394
1395
                     return false;
1396
1397
1398
                 TinyWindow_PrintErrorMessage(tinyWindowError_t::TINYWINDOW_ERROR_INVALID_ICON_PATH);
1399
1400
1401
             TinyWindow_PrintErrorMessage( tinyWindowError_t::TINYWINDOW_ERROR_NOT_INITIALIZED );
1402
1403
             return false; */
```

Set the window on destroyed event callback by index

Definition at line 1986 of file TinyWindow.h.

References DoesExistByIndex(), GetInstance(), INVALID_CALLBACK, IsInitialized(), NOT_INITIALIZED, Tiny Window PrintErrorMessage(), and WINDOW NOT FOUND.

```
1987
             if ( GetInstance()->IsInitialized() )
1988
1989
1990
                 if ( DoesExistByIndex( windowIndex ) )
1992
                      if (onDestroyed != nullptr)
1993
1994
                         GetWindowByIndex(windowIndex) ->
     destroyedEvent = onDestroyed;
1995
                          return true;
1996
1997
                     TinyWindow_PrintErrorMessage(
      tinyWindowError_t::INVALID_CALLBACK);
1998
                     return false;
1999
2000
                 TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
2001
                return false;
2002
2003
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
2004
             return false;
2005
```

Here is the call graph for this function:



4.2.3.80 static bool windowManager::SetWindowOnDestroyedByName (const char * windowName, std::function < void(void) > onDestroyed) [inline], [static]

Set the window on destroyed event callback by name

Definition at line 1963 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), INVALID_CALLBACK, IsInitialized(), NOT_INITIALIZED, Tiny Window_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
1974
                     TinyWindow_PrintErrorMessage(
      tinyWindowError_t::INVALID_CALLBACK);
1975
                     return false;
1976
                 TinyWindow_PrintErrorMessage(
1977
      tinyWindowError_t::WINDOW_NOT_FOUND);
1978
                 return false;
1979
1980
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
1981
             return false;
1982
```

Here is the call graph for this function:



4.2.3.81 static bool windowManager::SetWindowOnFocusByIndex (unsigned int windowIndex, std::function < void(bool) > onFocus) [inline], [static]

Set the window on focus event callback by index

Definition at line 2127 of file TinyWindow.h.

References DoesExistByIndex(), GetInstance(), INVALID_CALLBACK, IsInitialized(), NOT_INITIALIZED, Tiny Window_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
2128
2129
              if ( GetInstance() -> IsInitialized() )
2130
2131
                   if ( DoesExistByIndex( windowIndex ) )
2132
2133
                       if (onFocus != nullptr)
2134
2135
                           GetWindowByIndex(windowIndex) -> focusEvent = onFocus;
2136
                           return true;
2137
      TinyWindow_PrintErrorMessage(tinyWindowError_t::INVALID_CALLBACK);
2138
2139
                       return false;
2140
2141
                  TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
2142
                  return false;
2143
2144
              TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
2145
              return false;
2146
```



Set the window on focus event callback by name

Definition at line 2104 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), INVALID_CALLBACK, IsInitialized(), NOT_INITIALIZED, Tiny Window_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
2105
             if ( GetInstance()->IsInitialized() )
2106
2107
                 if ( DoesExistByName( windowName ) )
2108
2110
                      if (onFocus != nullptr)
2111
2112
                         GetWindowByName(windowName) -> focusEvent = onFocus;
2113
                         return true;
2114
2115
                     TinyWindow_PrintErrorMessage(
     tinyWindowError_t::INVALID_CALLBACK);
2116
                     return false;
2117
2118
                 TinyWindow_PrintErrorMessage(
     tinyWindowError_t::WINDOW_NOT_FOUND);
2119
                 return false;
2120
2121
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
2122
             return false:
2123
```

Here is the call graph for this function:



4.2.3.83 static bool windowManager::SetWindowOnKeyEventByIndex (unsigned int windowIndex, std::function < void(unsigned int, tinyWindowKeyState_t) > onKey) [inline], [static]

Set the window on key event callback by index

Definition at line 1845 of file TinyWindow.h.

 $References\ DoesExistByIndex(),\ GetInstance(),\ INVALID_CALLBACK,\ IsInitialized(),\ NOT_INITIALIZED,\ Tiny window_PrintErrorMessage(),\ and\ WINDOW_NOT_FOUND.$

```
TinyWindow_PrintErrorMessage(
      tinyWindowError_t::INVALID_CALLBACK);
1857
                      return false;
1858
                 TinyWindow_PrintErrorMessage(
1859
      tinyWindowError_t::WINDOW_NOT_FOUND);
1860
                 return false;
1861
1862
             {\tt TinyWindow\_PrintErrorMessage(}
      tinyWindowError_t::NOT_INITIALIZED );
1863
             return false;
1864
```

Here is the call graph for this function:



4.2.3.84 static bool windowManager::SetWindowOnKeyEventByName (const char * windowName, std::function < void(unsigned int, tinyWindowKeyState t) > onKey) [inline], [static]

Set the window on key event callback by name

Definition at line 1821 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), INVALID_CALLBACK, IsInitialized(), NOT_INITIALIZED, Tiny Window_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
1822
1823
                ( GetInstance()->IsInitialized() )
1824
1825
                  if ( DoesExistByName( windowName ) )
1826
                      if (onKey != nullptr)
1827
1829
                          GetWindowByName(windowName) ->keyEvent = onKey;
1830
                          return true;
1831
                      TinvWindow PrintErrorMessage(
1832
      tinyWindowError_t::INVALID_CALLBACK);
1833
                     return false;
1834
1835
                 TinyWindow_PrintErrorMessage(
1836
      tinyWindowError_t::WINDOW_NOT_FOUND);
1837
                 return false;
1838
1839
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
1840
             return false;
1841
```



4.2.3.85 static bool windowManager::SetWindowOnMaximizedByIndex (unsigned int *windowIndex*, std::function < void(void) > onMaximized) [inline], [static]

Set the window on maximized event callback by index

Definition at line 2033 of file TinyWindow.h.

References DoesExistByIndex(), GetInstance(), INVALID_CALLBACK, IsInitialized(), NOT_INITIALIZED, Tiny⇔ Window PrintErrorMessage(), and WINDOW NOT FOUND.

```
2034
             if ( GetInstance()->IsInitialized() )
2035
2036
2037
                 if ( DoesExistByIndex( windowIndex ) )
2039
                      if (onMaximized != nullptr)
2040
2041
                         GetWindowByIndex(windowIndex) ->
     maximizedEvent = onMaximized;
2042
                         return true;
2043
2044
                     TinyWindow_PrintErrorMessage(
      tinyWindowError_t::INVALID_CALLBACK);
2045
                     return false;
2046
2047
                 TinyWindow_PrintErrorMessage(
     tinyWindowError_t::WINDOW_NOT_FOUND);
2048
                return false;
2049
2050
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
2051
             return false;
2052
```

Here is the call graph for this function:



4.2.3.86 static bool windowManager::SetWindowOnMaximizedByName (const char * windowName, std::function < void(void) > onMaximized) [inline], [static]

Set the window on maximized event callback by name

Definition at line 2010 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), INVALID_CALLBACK, IsInitialized(), NOT_INITIALIZED, Tiny Window_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
2021
                     TinyWindow_PrintErrorMessage(
      tinyWindowError_t::INVALID_CALLBACK);
2022
                     return false;
2023
                 TinyWindow_PrintErrorMessage(
2024
      tinyWindowError_t::WINDOW_NOT_FOUND);
2025
                 return false;
2026
2027
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
2028
             return false;
2029
```

Here is the call graph for this function:



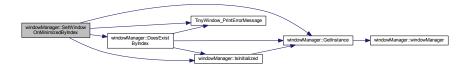
4.2.3.87 static bool windowManager::SetWindowOnMinimizedByIndex (unsigned int windowIndex, std::function< void(void)> onMinimized) [inline], [static]

Set the window on minimized event callback by index

Definition at line 2080 of file TinyWindow.h.

References DoesExistByIndex(), GetInstance(), INVALID_CALLBACK, IsInitialized(), NOT_INITIALIZED, Tiny Window_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
2081
2082
             if ( GetInstance()->IsInitialized() )
2083
2084
                 if ( DoesExistByIndex( windowIndex ) )
2085
2086
                        (onMinimized != nullptr)
2087
2088
                          GetWindowByIndex(windowIndex) ->
      minimizedEvent = onMinimized;
2089
                          return true;
2090
2091
                      TinyWindow_PrintErrorMessage(
      tinyWindowError_t::INVALID_CALLBACK);
2092
                     return false;
2093
                 TinyWindow_PrintErrorMessage(
2094
      tinyWindowError_t::WINDOW_NOT_FOUND);
2095
                 return false;
2096
2097
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
2098
             return false;
2099
```



4.2.3.88 static bool windowManager::SetWindowOnMinimizedByName (const char * windowName, std::function < void(void) > onMinimized) [inline], [static]

Set the window on minimized event callback by name

Definition at line 2057 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), INVALID_CALLBACK, IsInitialized(), NOT_INITIALIZED, Tiny Window_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
2058
2059
             if ( GetInstance() ->IsInitialized() )
2060
                 if ( DoesExistByName( windowName ) )
2062
2063
                     if (onMinimized != nullptr)
2064
2065
                         GetWindowByName(windowName) ->minimizedEvent = onMinimized;
2066
                         return true;
2067
2068
                     TinyWindow_PrintErrorMessage(
     tinyWindowError_t::INVALID_CALLBACK);
2069
                     return false;
2070
                 TinyWindow_PrintErrorMessage(
2071
      tinyWindowError_t::WINDOW_NOT_FOUND);
2072
                return false;
2073
2074
             TinyWindow_PrintErrorMessage(
     tinyWindowError_t::NOT_INITIALIZED );
2075
             return false;
2076
```

Here is the call graph for this function:



4.2.3.89 static bool windowManager::SetWindowOnMouseButtonEventByIndex (unsigned int windowIndex, std::function < void(tinyWindowMouseButton_t, tinyWindowButtonState_t) > onMouseButton) [inline], [static]

Set the window on mouse button event callback by index

Definition at line 1892 of file TinyWindow.h.

References DoesExistByIndex(), GetInstance(), INVALID_CALLBACK, IsInitialized(), NOT_INITIALIZED, Tiny Window_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
1894
             if ( GetInstance() -> IsInitialized() )
1895
                 if ( DoesExistByIndex( windowIndex ) )
1896
1897
1898
                      if (onMouseButton != nullptr)
1899
1900
                          GetWindowByIndex(windowIndex) ->
      mouseButtonEvent = onMouseButton;
1901
                          return true;
1902
                     TinyWindow_PrintErrorMessage(
1903
      tinyWindowError_t::INVALID_CALLBACK);
1904
                     return false;
1905
1906
                 TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
1907
                 return false;
1908
1909
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
1910
             return false;
1911
```

Here is the call graph for this function:



4.2.3.90 static bool windowManager::SetWindowOnMouseButtonEventByName (const char * windowName, std::function < void(tinyWindowMouseButton_t, tinyWindowButtonState_t) > onMouseButton) [inline], [static]

Set the window on mouse button event callback by name

Definition at line 1869 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), INVALID_CALLBACK, IsInitialized(), NOT_INITIALIZED, Tiny Window_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
1870
             if ( GetInstance() -> IsInitialized() )
1871
1872
                  if ( DoesExistByName( windowName ) )
1873
1874
1875
                      if (onMouseButton != nullptr)
1876
1877
                          GetWindowByName(windowName) ->mouseButtonEvent =
      onMouseButton;
1878
                          return true;
1880
                      TinyWindow_PrintErrorMessage(
      tinyWindowError_t::INVALID_CALLBACK);
1881
                      return false:
1882
                 TinyWindow_PrintErrorMessage(
1883
      tinyWindowError_t::WINDOW_NOT_FOUND);
1884
                 return false;
1885
             {\tt TinyWindow\_PrintErrorMessage(}
1886
      tinyWindowError_t::NOT_INITIALIZED );
1887
             return false;
1888
```

Here is the call graph for this function:



4.2.3.91 static bool windowManager::SetWindowOnMouseMoveByIndex (unsigned int *windowIndex*, std::function< void(unsigned int, unsigned int, unsigned int, unsigned int) onMouseMove) [inline], [static]

Set the window on mouse move event callback by index

Definition at line 2269 of file TinyWindow.h.

References DoesExistByIndex(), GetInstance(), INVALID_CALLBACK, IsInitialized(), NOT_INITIALIZED, Tiny Window_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
2270
2271
             if ( GetInstance()->IsInitialized() )
2273
                    ( DoesExistByIndex( windowIndex ) )
2274
2275
                      if (onMouseMove != nullptr)
2276
                         GetWindowByIndex(windowIndex) ->
2277
      mouseMoveEvent = onMouseMove;
2278
                          return true;
2279
2280
                     TinyWindow_PrintErrorMessage(
      tinyWindowError_t::INVALID_CALLBACK);
2281
                     return false:
2282
                 .
TinyWindow_PrintErrorMessage(
2283
      tinyWindowError_t::WINDOW_NOT_FOUND);
2284
                 return false;
2285
             TinyWindow_PrintErrorMessage(
2286
      tinyWindowError_t::NOT_INITIALIZED );
2287
             return false;
2288
```

Here is the call graph for this function:



4.2.3.92 static bool windowManager::SetWindowOnMouseMoveByName (const char * windowName, std::function < void(unsigned int, unsigned int, unsigned int) > onMouseMove) [inline], [static]

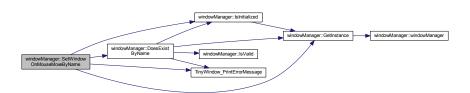
Set the window on mouse move event callback by name

Definition at line 2246 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), INVALID_CALLBACK, IsInitialized(), NOT_INITIALIZED, Tiny Window_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
2247
             if ( GetInstance()->IsInitialized() )
2248
2249
2250
                 if ( DoesExistByName( windowName ) )
2252
                     if (onMouseMove != nullptr)
2253
2254
                         GetWindowByName(windowName) ->mouseMoveEvent = onMouseMove;
2255
                         return true;
2256
2257
                     TinyWindow_PrintErrorMessage(
     tinyWindowError_t::INVALID_CALLBACK);
2258
                     return false;
2259
2260
                 TinyWindow_PrintErrorMessage(
     tinyWindowError_t::WINDOW_NOT_FOUND);
2261
                 return false;
2262
2263
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
2264
             return false:
2265
```

Here is the call graph for this function:



4.2.3.93 static bool windowManager::SetWindowOnMouseWheelEventByIndex (unsigned int windowIndex, std::function < void(tinyWindowMouseScroll_t) > onMouseWheel) [inline], [static]

Set the window on mouse wheel event callback by index

Definition at line 1939 of file TinyWindow.h.

 $References\ DoesExistByIndex(),\ GetInstance(),\ INVALID_CALLBACK,\ IsInitialized(),\ NOT_INITIALIZED,\ Tiny window_PrintErrorMessage(),\ and\ WINDOW_NOT_FOUND.$

```
1948
                          return true;
1949
1950
                      TinyWindow_PrintErrorMessage(
      tinyWindowError_t::INVALID_CALLBACK);
1951
                     return false;
1952
                 .
TinyWindow_PrintErrorMessage(
1953
      tinyWindowError_t::WINDOW_NOT_FOUND);
1954
                 return false;
1955
             TinyWindow_PrintErrorMessage(
1956
      tinyWindowError_t::NOT_INITIALIZED );
1957
             return false;
1958
```

Here is the call graph for this function:



4.2.3.94 static bool windowManager::SetWindowOnMouseWheelEventByName (const char * windowName, std::function < void(tinyWindowMouseScroll_t) > onMouseWheel) [inline], [static]

Set the window on mouse wheel event callback by name

Definition at line 1916 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), INVALID_CALLBACK, IsInitialized(), NOT_INITIALIZED, Tiny Window_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
1917
1918
             if ( GetInstance()->IsInitialized() )
1919
                    ( DoesExistByName ( windowName ) )
1920
1921
1922
                      if (onMouseWheel != nullptr)
1923
1924
                          GetWindowByName(windowName) ->mouseWheelEvent =
      onMouseWheel:
1925
                          return true;
1926
1927
                      TinyWindow_PrintErrorMessage(
      tinyWindowError_t::INVALID_CALLBACK);
1928
                     return false;
1929
1930
                 TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
1931
                 return false;
1932
1933
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
1934
             return false;
1935
```

Here is the call graph for this function:



4.2.3.95 static bool windowManager::SetWindowOnMovedByIndex (unsigned int windowIndex, std::function < void(unsigned int, unsigned int) > onMoved) [inline], [static]

Set the window on moved event callback by index

Definition at line 2175 of file TinyWindow.h.

References DoesExistByIndex(), GetInstance(), INVALID_CALLBACK, IsInitialized(), NOT_INITIALIZED, Tiny Window_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
2176
2177
              if ( GetInstance()->IsInitialized() )
2178
2179
                  if ( DoesExistByIndex( windowIndex ) )
2180
                      if (onMoved != nullptr)
2181
2182
2183
                          GetWindowByIndex(windowIndex) ->movedEvent = onMoved;
2184
                          return true;
2185
                      .
TinyWindow_PrintErrorMessage(
2186
      tinyWindowError_t::INVALID_CALLBACK);
2187
                      return false;
2188
                  TinvWindow PrintErrorMessage(
2189
      tinyWindowError_t::WINDOW_NOT_FOUND);
2190
                  return false;
2191
2192
              {\tt TinyWindow\_PrintErrorMessage(}
      tinyWindowError_t::NOT_INITIALIZED );
2193
              return false;
2194
```

Here is the call graph for this function:



4.2.3.96 static bool windowManager::SetWindowOnMovedByName (const char * windowName, std::function < void(unsigned int, unsigned int) > onMoved) [inline], [static]

Set the window on moved event callback by name

Definition at line 2151 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), INVALID_CALLBACK, IsInitialized(), NOT_INITIALIZED, Tiny Window_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
2152
             if ( GetInstance() -> IsInitialized() )
2153
2154
2155
                     ( DoesExistByName ( windowName ) )
2156
                      if (onMoved != nullptr)
2158
                          GetWindowByName(windowName) ->movedEvent = onMoved;
2159
2160
                          return true:
2161
2162
                      TinyWindow_PrintErrorMessage(
```

```
tinyWindowError_t::INVALID_CALLBACK);
2163
                     return false;
2164
2165
2166
                 TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
2167
                return false;
2168
2169
             TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
2170
             return false;
2171
```

Here is the call graph for this function:



4.2.3.97 static bool windowManager::SetWindowOnResizeByIndex (unsigned int windowIndex, std::function< void(unsigned int, unsigned int)> onResize) [inline], [static]

Set the window on resized event callback by index

Definition at line 2222 of file TinyWindow.h.

References DoesExistByIndex(), GetInstance(), INVALID_CALLBACK, IsInitialized(), NOT_INITIALIZED, Tiny Window_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
2223
2224
              if ( GetInstance() -> IsInitialized() )
2225
2226
                   if ( DoesExistByIndex( windowIndex ) )
2227
2228
                       if (onResize != nullptr)
2229
2230
                           GetWindowByIndex(windowIndex)->resizeEvent = onResize;
2231
2232
      TinyWindow_PrintErrorMessage(tinyWindowError_t::INVALID_CALLBACK);
2233
2234
                      return false;
2235
2236
                  TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
2237
                  return false;
2238
2239
              TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
2240
              return false;
2241
```

Here is the call graph for this function:



4.2.3.98 static bool windowManager::SetWindowOnResizeByName (const char * windowName, std::function < void(unsigned int, unsigned int) > onResize) [inline], [static]

Set the window on resized event callback by name

Definition at line 2199 of file TinyWindow.h.

References DoesExistByName(), GetInstance(), INVALID_CALLBACK, IsInitialized(), NOT_INITIALIZED, Tiny Window_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
2200
2201
             if ( GetInstance()->IsInitialized() )
2202
                 if ( DoesExistByName( windowName ) )
2204
2205
                     if (onResize != nullptr)
2206
2207
                         GetWindowByName(windowName) ->resizeEvent = onResize;
2208
                         return true:
2209
2210
                     TinyWindow_PrintErrorMessage(
     tinyWindowError_t::INVALID_CALLBACK);
2211
                     return false;
2212
                 TinyWindow_PrintErrorMessage(
2213
      tinyWindowError_t::WINDOW_NOT_FOUND);
2214
                return false;
2215
2216
             TinyWindow_PrintErrorMessage(
     tinyWindowError_t::NOT_INITIALIZED );
2217
             return false;
2218
```

Here is the call graph for this function:



4.2.3.99 static bool windowManager::SetWindowPositionByIndex (unsigned int windowIndex, unsigned int x, unsigned int y) [inline], [static]

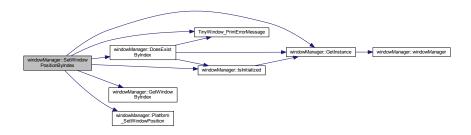
Set the position of the given window relative to screen co-ordinates

Definition at line 769 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByIndex(), GetInstance(), Get WindowByIndex(), IsInitialized(), NOT_INITIALIZED, Platform_SetWindowPosition(), windowManager::window_t ::position, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
771
772
            if ( GetInstance()->IsInitialized() )
773
                if ( DoesExistByIndex( windowIndex ) )
774
                    GetWindowByIndex( windowIndex )->position[ 0 ] = x;
775
776
                     GetWindowByIndex( windowIndex ) ->position[ 1 ] = y;
777
                     window_t* window = GetWindowByIndex(windowIndex);
778
                    Platform_SetWindowPosition(window, x, y);
779
                     return true;
780
781
                TinyWindow_PrintErrorMessage(
782
      tinyWindowError_t::WINDOW_NOT_FOUND);
783
                return false;
784
785
786
            TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
787
            return false;
788
```

Here is the call graph for this function:



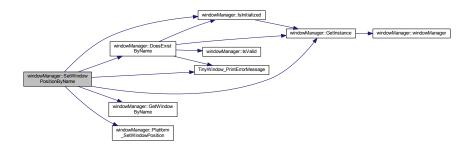
Set the Position of the given window relative to screen co-ordinates

Definition at line 745 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByName(), GetInstance(), Get \leftarrow WindowByName(), IsInitialized(), NOT_INITIALIZED, Platform_SetWindowPosition(), windowManager::window_t \leftarrow ::position, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
746
747
            if ( GetInstance()->IsInitialized() )
748
749
                if ( DoesExistByName( windowName ) )
750
751
                    GetWindowByName( windowName )->position[ 0 ] = x;
                    GetWindowByName( windowName )->position[ 1 ] = y;
752
753
                    window_t* window = GetWindowByName(windowName);
754
755
                    Platform_SetWindowPosition(window, x, y);
756
                    TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
757
                    return true;
758
                TinyWindow PrintErrorMessage(
759
      tinyWindowError_t::WINDOW_NOT_FOUND );
760
                return false;
761
762
            TinyWindow_PrintErrorMessage(
763
      tinyWindowError_t::NOT_INITIALIZED );
764
            return false;
765
```

Here is the call graph for this function:



4.2.3.101 static bool windowManager::SetWindowResolutionByIndex (unsigned int windowIndex, unsigned int width, unsigned int height) [inline],[static]

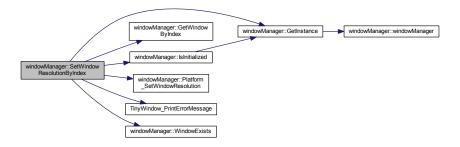
Set the Size/Resolution of the given window

Definition at line 647 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, GetInstance(), GetWindowByIndex(), Is Initialized(), NOT_INITIALIZED, Platform_SetWindowResolution(), windowManager::window_t::resolution, Tiny Window PrintErrorMessage(), WINDOW NOT FOUND, and WindowExists().

```
648
649
            if ( GetInstance()->IsInitialized() )
650
651
                if ( WindowExists( windowIndex ) )
652
653
                    GetWindowByIndex( windowIndex )->resolution[ 0 ] = width;
                    GetWindowByIndex( windowIndex )->resolution[ 1 ] = height;
654
655
                    window_t* window = GetWindowByIndex(windowIndex);
656
657
                    Platform_SetWindowResolution(window);
658
                    return true;
659
                TinyWindow_PrintErrorMessage(
660
      tinyWindowError_t::WINDOW_NOT_FOUND);
661
                return false;
662
663
            TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
664
            return false;
665
```

Here is the call graph for this function:



4.2.3.102 static bool windowManager::SetWindowResolutionByName (const char * windowName, unsigned int width, unsigned int height) [inline], [static]

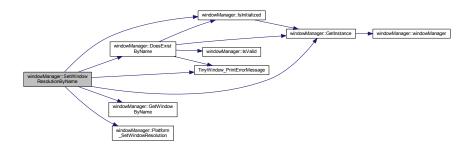
Set the Size/Resolution of the given window

Definition at line 624 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByName(), GetInstance(), Get WindowByName(), INVALID_CONTEXT, IsInitialized(), Platform_SetWindowResolution(), windowManager ::window_t::resolution, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
625
626
            if ( GetInstance()->IsInitialized() )
62.7
                 if ( DoesExistByName( windowName ) )
628
629
                     GetWindowByName( windowName ) -> resolution[ 0 ] = width;
630
631
                    GetWindowByName( windowName ) -> resolution[ 1 ] = height;
632
                    window_t* window = GetWindowByName(windowName);
633
634
                    Platform SetWindowResolution(window);
635
                    return true;
637
                TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
638
                return false:
639
640
            TinyWindow_PrintErrorMessage(
641
      tinyWindowError_t::INVALID_CONTEXT );
642
            return false;
643
```

Here is the call graph for this function:



4.2.3.103 static bool windowManager::SetWindowStyleByIndex (unsigned int windowIndex, tinyWindowStyle_t windowStyle) [inline],[static]

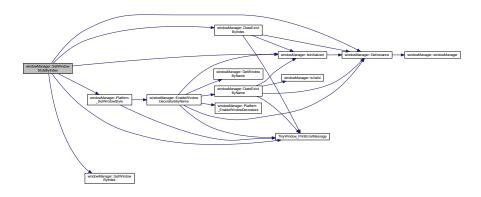
Set the window style preset by index

Definition at line 1723 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByIndex(), GetInstance(), Get WindowByIndex(), IsInitialized(), NOT_INITIALIZED, Platform_SetWindowStyle(), TinyWindow_PrintError Wessage(), and WINDOW_NOT_FOUND.

```
1725
              if ( GetInstance() -> IsInitialized() )
1726
1727
                   if ( DoesExistByIndex( windowIndex ) )
1728
1729
                       window_t* window = GetWindowByIndex(windowIndex);
1730
                       Platform_SetWindowStyle(window, windowStyle);
1731
                       return true;
1732
      TinyWindow_PrintErrorMessage(
tinyWindowError_t::WINDOW_NOT_FOUND);
1733
1734
                  return false:
1735
1736
              TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
1737
              return false;
1738
```

Here is the call graph for this function:



4.2.3.104 static bool windowManager::SetWindowStyleByName (const char * windowName, tinyWindowStyle_t windowStyle) [inline],[static]

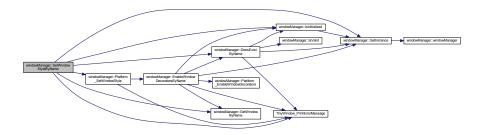
Set the window style preset by name

Definition at line 1704 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByName(), GetInstance(), Get \leftarrow WindowByName(), IsInitialized(), NOT_INITIALIZED, Platform_SetWindowStyle(), TinyWindow_PrintError \leftarrow Message(), and WINDOW_NOT_FOUND.

```
1705
              if ( GetInstance()->IsInitialized() )
1706
1707
1708
                   if ( DoesExistByName( windowName ) )
1709
1710
                       window_t* window = GetWindowByName(windowName);
1711
                       Platform_SetWindowStyle(window, windowStyle);
1712
                       return true;
1713
1714
                   TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
1715
                  return false;
1716
      TinyWindow_PrintErrorMessage(
tinyWindowError_t::NOT_INITIALIZED);
1717
1718
              return false;
1719
```

Here is the call graph for this function:



```
4.2.3.105 static bool windowManager::SetWindowTitleBarByIndex ( unsigned int windowIndex, const char * newName ) [inline], [static]
```

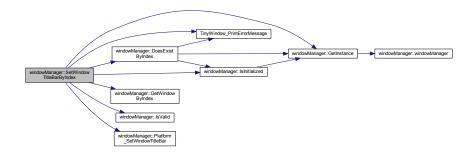
Set the window title bar by index

Definition at line 1351 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByIndex(), GetInstance(), Get WindowByIndex(), INVALID_WINDOW_NAME, IsInitialized(), IsValid(), NOT_INITIALIZED, Platform_SetWindow TitleBar(), TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
1352
1353
              if ( GetInstance()->IsInitialized() )
1354
1355
                  if (IsValid(newName))
1356
                       if (DoesExistByIndex(windowIndex))
1357
1358
1359
                           window_t* window = GetWindowByIndex(windowIndex);
                           Platform_SetWindowTitleBar(window, newName);
1360
1361
1362
      TinyWindow_PrintErrorMessage(
tinyWindowError_t::WINDOW_NOT_FOUND);
1363
1364
                      return false;
1365
1366
                  TinyWindow_PrintErrorMessage(
      tinyWindowError_t::INVALID_WINDOW_NAME);
1367
                  return false;
1368
1369
1370
              TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED );
1371
              return false;
1372
```

Here is the call graph for this function:



```
4.2.3.106 static bool windowManager::SetWindowTitleBarByName ( const char * windowName, const char * newTitle ) [inline], [static]
```

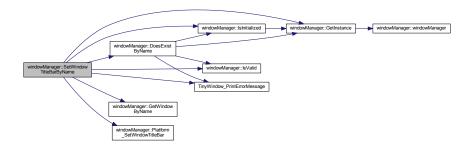
Set the window title bar by name

Definition at line 1327 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByName(), GetInstance(), Get WindowByName(), INVALID_WINDOW_NAME, IsInitialized(), IsValid(), NOT_INITIALIZED, Platform_SetWindow TitleBar(), TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
1328
1329
              if ( GetInstance() -> IsInitialized() )
1330
1331
                  if (IsValid(newTitle))
1332
                       if (DoesExistByName(windowName))
1333
1334
1335
                           window_t* window = GetWindowByName(windowName);
1336
                           Platform_SetWindowTitleBar(window, newTitle);
1337
                           return true;
1338
      TinyWindow_PrintErrorMessage(tinyWindowError_t::WINDOW_NOT_FOUND);
1339
1340
                      return false;
1341
1342
                  TinyWindow_PrintErrorMessage(
      tinyWindowError_t::INVALID_WINDOW_NAME);
1343
                  return false;
1344
              TinyWindow_PrintErrorMessage(
1345
      tinyWindowError_t::NOT_INITIALIZED );
1346
              return false;
1347
```

Here is the call graph for this function:



4.2.3.107 static void windowManager::ShutDown (void) [inline], [static]

Use this to shutdown the window manager when your program is finished

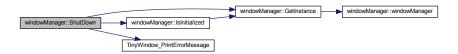
Definition at line 368 of file TinyWindow.h.

References GetInstance(), instance, IsInitialized(), isInitialized, NOT_INITIALIZED, and TinyWindow_PrintError ← Message().

Referenced by main().

```
369
370
            if (GetInstance()->IsInitialized())
371
                for (auto CurrentWindow : instance->windowList)
372
373
374
                    delete CurrentWindow;
375
376
377 #if defined( CURRENT_OS_LINUX )
378
                XCloseDisplay(instance->currentDisplay);
379 #endif
380
381
                instance->windowList.clear();
382
                instance->isInitialized = false;
383
                delete instance;
384
385
            .
TinyWindow_PrintErrorMessage(
386
      tinyWindowError_t::NOT_INITIALIZED);
387
```

Here is the call graph for this function:



Here is the caller graph for this function:



```
4.2.3.108 static void windowManager::ShutdownWindow ( window_t * window ) [inline], [static], [private]
```

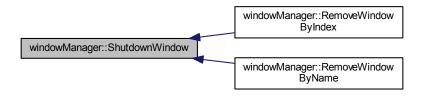
Definition at line 3017 of file TinyWindow.h.

References windowManager::window_t::name.

Referenced by RemoveWindowByIndex(), and RemoveWindowByName().

```
3030
             ReleaseDC(window->windowHandle, window->deviceContextHandle);
3031
             UnregisterClass(window->name, window->instanceHandle);
3032
3033
             FreeModule (window->instanceHandle);
3034
             window->deviceContextHandle = nullptr;
3035
3036
             window->windowHandle = nullptr;
3037
             window->glRenderingContextHandle = nullptr;
3038 #elif defined( linux )
             if (window->currentState == tinyWindowState_t::FULLSCREEN)
3039
3040
             {
3041
                 RestoreWindowByName(window->name);
3042
3043
3044
             glXDestroyContext(instance->currentDisplay, window->context);
3045
             XUnmapWindow(instance->currentDisplay, window->windowHandle);
             XDestroyWindow(instance->currentDisplay, window->windowHandle);
3046
3047
             window->windowHandle = 0;
             window->context = 0;
3049 #endif
3050
```

Here is the caller graph for this function:



4.2.3.109 static void windowManager::WaitForEvents (void) [inline], [static]

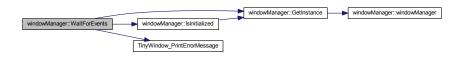
Ask the window manager to wait for events

Definition at line 1639 of file TinyWindow.h.

References GetInstance(), instance, IsInitialized(), NOT INITIALIZED, and TinyWindow PrintErrorMessage().

```
1640
1641
             if ( GetInstance()->IsInitialized() )
1642
1643 #if defined( _WIN32 ) || defined( _WIN64 )
                  //process even if there aren't any to process
1644
1645
                  GetMessage(&instance->message, 0, 0, 0);
1646
                  TranslateMessage(&instance->message);
1647
                 DispatchMessage(&instance->message);
1648 #elif defined(_
                      _linux_
                  //even if there aren't any events to process
1649
1650
                  XNextEvent(instance->currentDisplay, &instance->currentEvent);
1651
1652
                  XEvent currentEvent = instance->currentEvent;
1653
1654
                 Linux ProcessEvents(currentEvent);
1655 #endif
1656
1657
1658
1659
      TinyWindow_PrintErrorMessage(
tinyWindowError_t::NOT_INITIALIZED);
1660
1661
             }
1662
```

Here is the call graph for this function:



```
4.2.3.110 static bool windowManager::WindowExists ( unsigned int windowIndex ) [inline], [static], [private]
```

Definition at line 2426 of file TinyWindow.h.

Referenced by SetWindowResolutionByIndex().

Here is the caller graph for this function:

```
windowManager::SetWindow
ResolutionByIndex
```

4.2.3.111 static tinyWindowKeyState_t windowManager::WindowGetKeyByIndex (unsigned int windowIndex, unsigned int key) [inline], [static]

Returns the current state of the given key relative to the given window

Definition at line 929 of file TinyWindow.h.

References BAD, DoesExistByIndex(), GetInstance(), GetWindowByIndex(), IsInitialized(), windowManager :: window_t::keys, NOT_INITIALIZED, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
930
931
             if ( GetInstance()->IsInitialized() )
932
933
                  if ( DoesExistByIndex( windowIndex ) )
934
                      return GetWindowByIndex( windowIndex )->keys[ key ];
935
936
937
                 TinyWindow_PrintErrorMessage(
      tinyWindowError_t::WINDOW_NOT_FOUND);
938
                 return tinyWindowKeyState_t::BAD;
939
      TinyWindow_PrintErrorMessage(
tinyWindowError_t::NOT_INITIALIZED);
940
             return tinyWindowKeyState_t::BAD;
941
942
```

Here is the call graph for this function:



4.2.3.112 static tinyWindowKeyState_t windowManager::WindowGetKeyByName (const char * windowName, unsigned int key) [inline], [static]

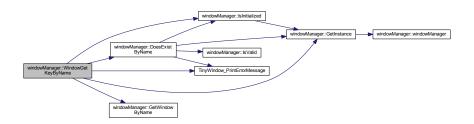
Returns the current state of the given key relative to the given window

Definition at line 911 of file TinyWindow.h.

References BAD, DoesExistByName(), GetInstance(), GetWindowByName(), IsInitialized(), windowManager :: window_t::keys, NOT_INITIALIZED, TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

```
912
913
               if ( GetInstance()->IsInitialized() )
914
                    if ( DoesExistByName( windowName ) )
915
917
                         return GetWindowByName( windowName ) -> keys[ key ];
918
919
       TinyWindow_PrintErrorMessage(
tinyWindowError_t::WINDOW_NOT_FOUND);
    return tinyWindowKeyState_t::BAD;
920
921
922
923
               TinyWindow_PrintErrorMessage(
       tinyWindowError_t::NOT_INITIALIZED );
924
               return tinyWindowKeyState_t::BAD;
925
```

Here is the call graph for this function:



4.2.3.113 static bool windowManager::WindowSwapBuffersByIndex (unsigned int windowIndex) [inline], [static]

Swap the draw buffers of the given window

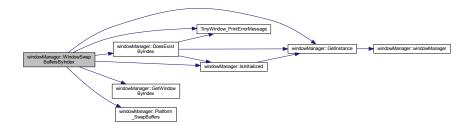
Definition at line 1005 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByIndex(), GetInstance(), Get WindowByIndex(), IsInitialized(), NOT_INITIALIZED, Platform_SwapBuffers(), TinyWindow_PrintErrorMessage(), and WINDOW_NOT_FOUND.

Referenced by main().

```
1006
             if ( GetInstance()->IsInitialized() )
1007
1008
1009
                 if ( DoesExistByIndex( windowIndex ) )
1010
1011
                     window_t* window = GetWindowByIndex(windowIndex);
1012
                     Platform_SwapBuffers(window);
1013
                     return true;
1014
                 TinyWindow_PrintErrorMessage(
1015
     tinyWindowError_t::WINDOW_NOT_FOUND);
1016
                 return false;
1017
1018
             TinyWindow_PrintErrorMessage(
     tinyWindowError_t::NOT_INITIALIZED );
1019
            return false;
1020
```

Here is the call graph for this function:



Here is the caller graph for this function:



```
4.2.3.114 static bool windowManager::WindowSwapBuffersByName ( const char * windowName ) [inline], [static]
```

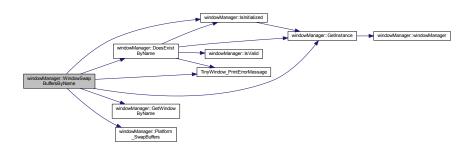
Swap the draw buffers of the given window

Definition at line 984 of file TinyWindow.h.

References windowManager::window_t::AtomDesktopGeometry, DoesExistByName(), GetInstance(), Get \leftarrow WindowByName(), IsInitialized(), NOT_INITIALIZED, Platform_SwapBuffers(), and TinyWindow_PrintError \leftarrow Message().

```
985
             if ( GetInstance()->IsInitialized() )
986
987
988
                  if ( DoesExistByName( windowName ) )
989
                      window_t* window = GetWindowByName(windowName);
991
                      Platform_SwapBuffers(window);
992
993
                      return true;
994
995
                  TinyWindow_PrintErrorMessage(
      tinyWindowError_t::NOT_INITIALIZED);
996
                 return false;
997
998
      TinyWindow_PrintErrorMessage(
tinyWindowError_t::NOT_INITIALIZED);
999
1000
              return false;
1001
```

Here is the call graph for this function:



4.2.4 Member Data Documentation

4.2.4.1 windowManager * windowManager::instance = nullptr [static], [private]

Definition at line 2414 of file TinyWindow.h.

Referenced by AddWindow(), GetInstance(), GetMousePositionInScreen(), GetScreenResolution(), Initialize(), PollForEvents(), SetMousePositionInScreen(), ShutDown(), and WaitForEvents().

4.2.4.2 bool windowManager::isInitialized [private]

Definition at line 2419 of file TinyWindow.h.

Referenced by Initialize(), IsInitialized(), and ShutDown().

4.2.4.3 unsigned int windowManager::screenMousePosition[2] [private]

Definition at line 2417 of file TinyWindow.h.

Referenced by GetMousePositionInScreen(), and SetMousePositionInScreen().

4.2.4.4 unsigned int windowManager::screenResolution[2] [private]

Definition at line 2416 of file TinyWindow.h.

Referenced by GetScreenResolution(), and Initialize().

4.2.4.5 std::vector< window_t* > windowManager::windowList [private]

Definition at line 2413 of file TinyWindow.h.

The documentation for this class was generated from the following file:

• Include/TinyWindow.h

Chapter 5

File Documentation

5.1 Example/CMakeFiles/3.4.2/CompilerIdCXX/CMakeCXXCompilerId.cpp File Reference

Macros

```
• #define COMPILER ID ""
```

- #define STRINGIFY HELPER(X) #X
- #define STRINGIFY(X) STRINGIFY_HELPER(X)
- #define PLATFORM ID ""
- #define ARCHITECTURE_ID ""
- #define DEC(n)
- #define HEX(n)

Functions

• int main (int argc, char *argv[])

Variables

```
    char const * info_compiler = "INFO" ":" "compiler[" "" "]"
    char const * info_platform = "INFO" ":" "platform[" "" "]"
```

- char const * info_arch = "INFO" ":" "arch[" "" "]"
- const char * info language dialect default

5.1.1 Macro Definition Documentation

5.1.1.1 #define ARCHITECTURE_ID ""

Definition at line 411 of file CMakeCXXCompilerId.cpp.

5.1.1.2 #define COMPILER_ID ""

Definition at line 248 of file CMakeCXXCompilerId.cpp.

118 File Documentation

5.1.1.3 #define DEC(n)

Value:

Definition at line 415 of file CMakeCXXCompilerId.cpp.

```
5.1.1.4 #define HEX( n )
```

Value:

```
('0' + ((n)>>28 & 0xF)), \
('0' + ((n)>>24 & 0xF)), \
('0' + ((n)>>20 & 0xF)), \
('0' + ((n)>>16 & 0xF)), \
('0' + ((n)>>12 & 0xF)), \
('0' + ((n)>>8 & 0xF)), \
('0' + ((n)>>8 & 0xF)), \
('0' + ((n)>>4 & 0xF)), \
('0' + ((n)>>6 & 0xF)), \
('0' + ((n)>>6 & 0xF)), \
('0' + ((n)>>6 & 0xF)), \
```

Definition at line 426 of file CMakeCXXCompilerId.cpp.

```
5.1.1.5 #define PLATFORM_ID ""
```

Definition at line 361 of file CMakeCXXCompilerId.cpp.

```
5.1.1.6 #define STRINGIFY( X ) STRINGIFY_HELPER(X)
```

Definition at line 265 of file CMakeCXXCompilerId.cpp.

```
5.1.1.7 #define STRINGIFY_HELPER( X) #X
```

Definition at line 264 of file CMakeCXXCompilerId.cpp.

5.1.2 Function Documentation

```
5.1.2.1 int main ( int argc, char * argv[])
```

Definition at line 494 of file CMakeCXXCompilerId.cpp.

References info_compiler, info_language_dialect_default, and info_platform.

```
495 {
496
     int require = 0;
     require += info_compiler[argc];
require += info_platform[argc];
497
498
499 #ifdef COMPILER_VERSION_MAJOR
500
     require += info_version[argc];
501 #endif
502 #ifdef SIMULATE ID
     require += info_simulate[argc];
503
504 #endif
505 #ifdef SIMULATE_VERSION_MAJOR
506
     require += info_simulate_version[argc];
507 #endif
     require += info_language_dialect_default[argc];
508
509
     (void) argv;
510
     return require;
511 }
```

5.1.3 Variable Documentation

```
5.1.3.1 char const* info_arch = "INFO" ":" "arch[" "" "]"
```

Definition at line 477 of file CMakeCXXCompilerId.cpp.

```
5.1.3.2 char const* info_compiler = "INFO" ":" "compiler[" "" "]"
```

Definition at line 255 of file CMakeCXXCompilerId.cpp.

Referenced by main().

5.1.3.3 const char* info_language_dialect_default

Initial value:

```
= "INFO" ":" "dialect_default["
"98"
"]"
```

Definition at line 482 of file CMakeCXXCompilerId.cpp.

Referenced by main().

```
5.1.3.4 char const* info_platform = "INFO" ":" "platform[" "" "]"
```

Definition at line 476 of file CMakeCXXCompilerId.cpp.

Referenced by main().

5.2 Example/CMakeFiles/feature_tests.cxx File Reference

Functions

• int main (int argc, char **argv)

Variables

const char features []

120 File Documentation

5.2.1 Function Documentation

5.2.1.1 int main (int argc, char ** argv)

Definition at line 377 of file feature_tests.cxx.

References features.

```
377 { (void)argv; return features[argc]; }
```

5.2.2 Variable Documentation

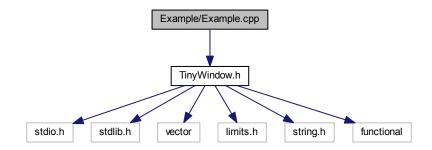
5.2.2.1 const char features[]

Definition at line 2 of file feature_tests.cxx.

Referenced by main().

5.3 Example/Example.cpp File Reference

```
#include "TinyWindow.h"
Include dependency graph for Example.cpp:
```



Functions

- void handleKeyPresses (unsigned int key, tinyWindowKeyState_t keyState)
- int main ()

5.3.1 Function Documentation

5.3.1.1 void handleKeyPresses (unsigned int key, tinyWindowKeyState_t keyState)

Definition at line 3 of file Example.cpp.

References DOWN.

```
4 {
5     if(keyState == tinyWindowKeyState_t::DOWN)
6     {
7         printf("%c \t", key);
8     }
9 }
```

```
5.3.1.2 int main ( )
```

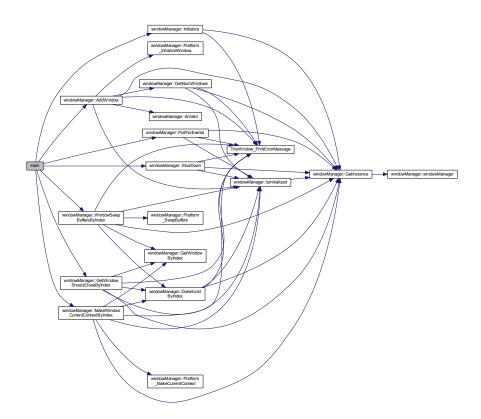
Definition at line 11 of file Example.cpp.

 $References \quad windowManager::AddWindow(), \quad windowManager::GetWindowShouldCloseByIndex(), \quad windowManager::Initialize(), \quad windowManager::PollForEvents(), \\ windowManager::ShutDown(), \quad and \quad windowManager::WindowSwapBuffersByIndex().$

```
12 {
13
       windowManager::Initialize();
14
       windowManager::AddWindow("Example");
windowManager::SetWindowOnKeyEventByName("Example",
15
16
      handleKeyPresses);
17
18
       glClearColor(0.25f, 0.25f, 0.25f, 1.0f);
19
       while (!windowManager::GetWindowShouldCloseByIndex(0))
20
21
            windowManager::PollForEvents();// or WaitForEvents
22
23
           glClear(GL_COLOR_BUFFER_BIT | GL_DEPTH_BUFFER_BIT);
24
            windowManager::MakeWindowCurrentContextByIndex(0);
25
            windowManager::WindowSwapBuffersByIndex(0);
26
2.7
28
       windowManager::ShutDown();
29
       return 0;
30 }
```

122 File Documentation

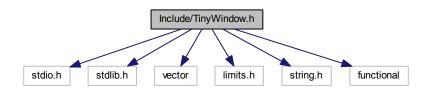
Here is the call graph for this function:



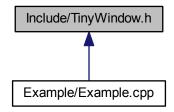
5.4 Include/TinyWindow.h File Reference

```
#include <stdio.h>
#include <stdlib.h>
#include <vector>
#include <limits.h>
#include <string.h>
#include <functional>
```

Include dependency graph for TinyWindow.h:



This graph shows which files directly or indirectly include this file:



Classes

- · class windowManager
- struct windowManager::window t

Enumerations

```
    enum tinyWindowKeyState t { tinyWindowKeyState t::DOWN, tinyWindow

 KeyState_t::BAD = -1 }
enum tinyWindowKey_t {
 KEY\_ERROR = -1, KEY\_FIRST = 256 + 1, KEY\_F1, KEY\_F2,
 KEY F3, KEY F4, KEY F5, KEY F6,
 KEY_F7, KEY_F8, KEY_F9, KEY_F10,
 KEY_F11, KEY_F12, KEY_CAPSLOCK, KEY_LEFTSHIFT,
 KEY_RIGHTSHIFT, KEY_LEFTCONTROL, KEY_RIGHTCONTROL, KEY_LEFTWINDOW,
 KEY RIGHTWINDOW, KEY LEFTALT, KEY RIGHTALT, KEY ENTER,
 KEY_PRINTSCREEN, KEY_SCROLLLOCK, KEY_NUMLOCK, KEY_PAUSE,
 KEY_INSERT, KEY_HOME, KEY_END, KEY_PAGEUP,
 KEY PAGEDOWN, KEY ARROW DOWN, KEY ARROW UP, KEY ARROW LEFT,
 KEY ARROW RIGHT, KEY KEYPAD DIVIDE, KEY KEYPAD MULTIPLY, KEY KEYPAD SUBTRACT,
 KEY_KEYPAD_ADD, KEY_KEYPAD_ENTER, KEY_KEYPAD_PERIOD, KEY_KEYPAD_0,
 KEY_KEYPAD_1, KEY_KEYPAD_2, KEY_KEYPAD_3, KEY_KEYPAD_4,
 KEY_KEYPAD_5, KEY_KEYPAD_6, KEY_KEYPAD_7, KEY_KEYPAD_8,
 KEY KEYPAD 9, KEY BACKSPACE, KEY TAB, KEY DELETE,
 KEY_ESCAPE, KEY_LAST = KEY_ESCAPE }
```

- enum tinyWindowButtonState_t { tinyWindowButtonState_t::UP = 0, tinyWindowButtonState_t::DOWN }
- enum tinyWindowMouseButton_t { tinyWindowMouseButton_t::RIG← HT, tinyWindowMouseButton_t::MIDDLE, tinyWindowMouseButton_t::LAST }
- enum tinyWindowMouseScroll_t { tinyWindowMouseScroll_t::DOWN = 0, tinyWindowMouseScroll_t::UP }
- enum tinyWindowStyle_t { tinyWindowStyle_t::BARE = 1, tinyWindowStyle_t::DEFAULT, tinyWindowStyle
 _t::POPUP }
- enum tinyWindowDecorator_t {
 DECORATOR_TITLEBAR = 0x01, DECORATOR_ICON = 0x02, DECORATOR_BORDER = 0x04, DECO
 RATOR_MINIMIZEBUTTON = 0x08,
 DECORATOR_MAXIMIZEBUTTON = 0x010, DECORATOR_CLOSEBUTTON = 0x20, DECORATOR_SI
 ZEABLEBORDER = 0x40 }

124 File Documentation

enum tinyWindowError_t { tinyWindowError t::TINYWINDOW ERROR = -1, tinyWindowError t::INVALID WINDOW NAME = 0, tiny ← WindowError t::INVALID ICON PATH, tinyWindowError t::INVALID WINDOW INDEX, tinyWindowError_t::INVALID_WINDOW_STATE, tinyWindowError_t::INVALID_RESOLUTION, tiny← WindowError_t::INVALID_CONTEXT, tinyWindowError_t::EXISTING_CONTEXT, tinyWindowError t::NOT INITIALIZED, tinyWindowError t::ALREADY INITIALIZED, tinyWindowError t::I↔ NVALID TITLEBAR, tinyWindowError t::INVALID CALLBACK, tinyWindowError t::WINDOW NOT FOUND, tinyWindowError t::INVALID WINDOWSTYLE, tinyWindow↔ Error t::FUNCTION NOT IMPLEMENTED, tinyWindowError t::LINUX CANNOT CONNECT X SERVER, tinyWindowError t::LINUX INVALID VISUALINFO, tinyWindowError t::LINUX CANNOT CREATE WIN↔ DOW, tinyWindowError t::LINUX FUNCTION NOT IMPLEMENTED, tinyWindowError t::WINDOWS C← ANNOT_CREATE_WINDOW, IMPLEMENTED }

Functions

static void TinyWindow PrintErrorMessage (const tinyWindowError t errorNumber)

Variables

- WIN32 WIN64 const int DEFAULT WINDOW WIDTH = 1280
- const int DEFAULT_WINDOW_HEIGHT = 720
- const int LINUX_FUNCTION = 1
- const int LINUX DECORATOR = 2

5.4.1 Enumeration Type Documentation

5.4.1.1 enum tinyWindowButtonState_t [strong]

Enumerator

UP The mouse button is currently up

DOWN The mouse button is currently down

Definition at line 106 of file TinyWindow.h.

5.4.1.2 enum tinyWindowDecorator_t

Enumerator

DECORATOR_TITLEBAR The title bar decoration of the window

DECORATOR_ICON The icon decoration of the window

DECORATOR_BORDER The border decoration of the window

DECORATOR_MINIMIZEBUTTON The minimize button decoration of the window

DECORATOR_MAXIMIZEBUTTON The maximize button decoration pf the window

DECORATOR_CLOSEBUTTON The close button decoration of the window

DECORATOR_SIZEABLEBORDER The sizable border decoration of the window

Definition at line 141 of file TinyWindow.h.

```
142 {
        DECORATOR_TITLEBAR = 0 \times 01,
143
144
        DECORATOR\_ICON = 0x02,
        DECORATOR\_BORDER = 0x04,
145
146
        DECORATOR\_MINIMIZEBUTTON = 0x08,
147
        DECORATOR_MAXIMIZEBUTTON = 0x010,
148
        DECORATOR\_CLOSEBUTTON = 0x20,
149
       DECORATOR_SIZEABLEBORDER = 0x40,
150 };
```

5.4.1.3 enum tinyWindowError_t [strong]

Enumerator

```
TINYWINDOW_ERROR
```

INVALID_WINDOW_NAME If an invalid window name was given

INVALID_ICON_PATH If an invalid icon path was given

INVALID_WINDOW_INDEX If an invalid window index was given

INVALID_WINDOW_STATE If an invalid window state was given

INVALID_RESOLUTION If an invalid window resolution was given

INVALID_CONTEXT If the OpenGL context for the window is invalid

EXISTING_CONTEXT If the window already has an OpenGL context

NOT_INITIALIZED If the window is being used without being initialized

ALREADY_INITIALIZED If the window was already initialized

INVALID_TITLEBAR If the Title-bar text given was invalid

INVALID_CALLBACK If the given event callback was invalid

WINDOW_NOT_FOUND If the window was not found in the window manager

INVALID_WINDOWSTYLE If the window style gives is invalid

FUNCTION_NOT_IMPLEMENTED If the function has not yet been implemented in the current version of the API

LINUX_CANNOT_CONNECT_X_SERVER Linux: if cannot connect to an X11 server

LINUX_INVALID_VISUALINFO Linux: if visual information given was invalid

LINUX_CANNOT_CREATE_WINDOW Linux: when X11 fails to create a new window

LINUX_FUNCTION_NOT_IMPLEMENTED Linux: when the function has not yet been implemented on the Linux in the current version of the API

WINDOWS_CANNOT_CREATE_WINDOW Windows: when Win32 cannot create a window

126 File Documentation

WINDOWS_CANNOT_INITIALIZE Windows: when Win32 cannot initialize

WINDOWS_FUNCTION_NOT_IMPLEMENTED Windows: when a function has yet to be implemented on the Windows platform in the current version of the API

Definition at line 152 of file TinyWindow.h.

```
153 {
154
         TINYWINDOW\_ERROR = -1,
155
         INVALID_WINDOW_NAME = 0,
156
         INVALID_ICON_PATH,
         INVALID_WINDOW_INDEX, INVALID_WINDOW_STATE,
157
158
         INVALID_RESOLUTION,
160
         INVALID_CONTEXT,
161
         EXISTING_CONTEXT,
         NOT_INITIALIZED,
ALREADY_INITIALIZED,
162
163
         INVALID_TITLEBAR,
INVALID_CALLBACK,
164
165
         WINDOW_NOT_FOUND,
166
167
         INVALID_WINDOWSTYLE,
168
         FUNCTION_NOT_IMPLEMENTED,
169
         LINUX_CANNOT_CONNECT_X_SERVER,
LINUX_INVALID_VISUALINFO,
170
171
         LINUX_CANNOT_CREATE_WINDOW,
172
         LINUX_FUNCTION_NOT_IMPLEMENTED,
173
         WINDOWS_CANNOT_CREATE_WINDOW,
174
         WINDOWS_CANNOT_INITIALIZE,
175
         WINDOWS_FUNCTION_NOT_IMPLEMENTED,
176 };
```

5.4.1.4 enum tinyWindowKey_t

Enumerator

```
KEY_ERROR The key pressed is considered invalid
KEY_FIRST The fist key that is not a char
KEY_F1 The F1 key
KEY_F2 The F2 key
KEY_F3 The F3 key
KEY_F4 The F4 key
KEY_F5 The F5 key
KEY_F6 The F6 key
KEY_F7 The F7 key
KEY_F8 The F8 key
KEY_F9 The F9 key
KEY_F10 The F10 key
KEY_F11 The F11 key
KEY_F12 The F12 key
KEY_CAPSLOCK The CapsLock key
KEY_LEFTSHIFT The left Shift key
KEY_RIGHTSHIFT The right Shift key
KEY_LEFTCONTROL The left Control key
KEY_RIGHTCONTROL The right Control key
KEY_LEFTWINDOW The left Window key
```

KEY_RIGHTWINDOW The right Window key

```
KEY_LEFTALT The left Alternate key
KEY_RIGHTALT The right Alternate key
KEY_ENTER The Enter/Return key
KEY_PRINTSCREEN The PrintScreen key
KEY_SCROLLLOCK The ScrollLock key
KEY_NUMLOCK The NumLock key
KEY_PAUSE The pause/break key
KEY_INSERT The insert key
KEY_HOME The Home key
KEY_END The End key
KEY_PAGEUP The PageUp key
KEY_PAGEDOWN The PageDown key
KEY_ARROW_DOWN The ArrowDown key
KEY_ARROW_UP The ArrowUp key
KEY_ARROW_LEFT The ArrowLeft key
KEY_ARROW_RIGHT The ArrowRight key
KEY_KEYPAD_DIVIDE The KeyPad Divide key
KEY_KEYPAD_MULTIPLY The Keypad Multiply key
KEY_KEYPAD_SUBTRACT The Keypad Subtract key
KEY_KEYPAD_ADD The Keypad Add key
KEY_KEYPAD_ENTER The Keypad Enter key
KEY_KEYPAD_PERIOD The Keypad Period/Decimal key
KEY_KEYPAD_0 The Keypad 0 key
KEY_KEYPAD_1 The Keypad 1 key
KEY_KEYPAD_2 The Keypad 2 key
KEY_KEYPAD_3 The Keypad 3 key
KEY_KEYPAD_4 The Keypad 4 key
KEY_KEYPAD_5 The Keypad 5 key
KEY_KEYPAD_6 The Keypad 6 key
KEY_KEYPAD_7 The Keypad 7 key
KEY_KEYPAD_8 The keypad 8 key
KEY_KEYPAD_9 The Keypad 9 key
KEY_BACKSPACE The Backspace key
KEY_TAB The Tab key
KEY_DELETE The Delete key
KEY_ESCAPE The Escape key
KEY_LAST The last key to be supported
```

Definition at line 44 of file TinyWindow.h.

128 File Documentation

```
54
           KEY_F7,
           KEY_F8,
KEY_F9,
56
           KEY_F10,
57
           KEY_F11,
KEY_F12,
KEY_CAPSLOCK,
58
59
60
           KEY_LEFTSHIFT,
62
           KEY_RIGHTSHIFT,
          KEY_LEFTCONTROL,
KEY_RIGHTCONTROL,
KEY_LEFTWINDOW,
KEY_RIGHTWINDOW,
63
64
65
66
           KEY_LEFTALT,
68
           KEY_RIGHTALT,
          KEY_ENTER,
KEY_PRINTSCREEN,
KEY_SCROLLLOCK,
KEY_NUMLOCK,
69
70
71
72
           KEY_PAUSE,
74
           KEY_INSERT,
75
           KEY_HOME,
           KEY_PAGEUP,
KEY_PAGEDOWN,
76
77
78
           KEY_ARROW_DOWN,
80
           KEY_ARROW_UP,
81
           KEY_ARROW_LEFT,
          KEY_ARROW_RIGHT,
KEY_KEYPAD_DIVIDE,
KEY_KEYPAD_MULTIPLY,
KEY_KEYPAD_SUBTRACT,
82
83
84
85
86
           KEY_KEYPAD_ADD,
87
           KEY_KEYPAD_ENTER,
          KEY_KEYPAD_PERIOD,
KEY_KEYPAD_0,
KEY_KEYPAD_1,
KEY_KEYPAD_2,
88
89
90
91
           KEY_KEYPAD_3,
93
           KEY_KEYPAD_4,
          KEY_KEYPAD_5,
KEY_KEYPAD_6,
KEY_KEYPAD_7,
KEY_KEYPAD_8,
94
9.5
96
98
           KEY_KEYPAD_9,
99
           KEY_BACKSPACE,
100
           KEY_TAB,
            KEY_DELETE,
KEY_ESCAPE,
KEY_LAST = KEY_ESCAPE,
101
102
103
104 };
```

5.4.1.5 enum tinyWindowKeyState_t [strong]

Enumerator

UP The key is currently up

DOWN The key is currently down

BAD If get key state fails (could not name it ERROR)

Definition at line 37 of file TinyWindow.h.

5.4.1.6 enum tinyWindowMouseButton_t [strong]

Enumerator

```
LEFT The left mouse button
```

RIGHT The right mouse button

MIDDLE The middle mouse button / ScrollWheel

LAST The last mouse button to be supported

Definition at line 112 of file TinyWindow.h.

5.4.1.7 enum tinyWindowMouseScroll_t [strong]

Enumerator

```
DOWN The mouse wheel up
```

UP The mouse wheel down

Definition at line 120 of file TinyWindow.h.

5.4.1.8 enum tinyWindowState_t [strong]

Enumerator

NORMAL The window is in its default state

MAXIMIZED The window is currently maximized

MINIMIZED The window is currently minimized

FULLSCREEN The window is currently full screen

Definition at line 133 of file TinyWindow.h.

```
134 {
135 NORMAL = 0,
136 MAXIMIZED,
137 MINIMIZED,
138 FULLSCREEN,
139 };
```

130 File Documentation

```
5.4.1.9 enum tinyWindowStyle_t [strong]
```

Enumerator

BARE The window has no decorators but the window border and title bar **DEFAULT** The default window style for the respective platform **POPUP** The window has no decorators

Definition at line 126 of file TinyWindow.h.

```
127 {
128 BARE = 1,
129 DEFAULT,
130 POPUP,
131 };
```

5.4.2 Function Documentation

5.4.2.1 static void TinyWindow_PrintErrorMessage (const tinyWindowError_t errorNumber) [static]

Print out the error associated with the given error number

Definition at line 210 of file TinyWindow.h.

References ALREADY_INITIALIZED, EXISTING_CONTEXT, FUNCTION_NOT_IMPLEMENTED, INVALID_CAL ← LBACK, INVALID_CONTEXT, INVALID_ICON_PATH, INVALID_RESOLUTION, INVALID_TITLEBAR, INVALID ← LWINDOW_INDEX, INVALID_WINDOW_NAME, INVALID_WINDOW_STATE, INVALID_WINDOWSTYLE, LIN ← UX_CANNOT_CONNECT_X_SERVER, LINUX_CANNOT_CREATE_WINDOW, LINUX_FUNCTION_NOT_IMP ← LEMENTED, LINUX_INVALID_VISUALINFO, NOT_INITIALIZED, WINDOW_NOT_FOUND, WINDOWS_CANN ← OT_CREATE_WINDOW, and WINDOWS_FUNCTION_NOT_IMPLEMENTED.

Referenced by windowManager::AddWindow(), windowManager::DisableWindowDecoratorByIndex(), window← Manager::DisableWindowDecoratorByName(), windowManager::DoesExistByIndex(), windowManager::Does← windowManager::EnableWindowDecoratorsByIndex(), ExistByName(), windowManager::EnableWindow← DecoratorsByName(), windowManager::FocusWindowByIndex(), windowManager::FocusWindowByName(), windowManager::GetMousePositionInScreen(), windowManager::GetMousePositionInWindowByIndex(), window ← Manager::GetMousePositionInWindowByName(), windowManager::GetNumWindows(), windowManager::← GetScreenResolution(), windowManager::GetWindowIndexByName(), windowManager::GetWindowIsFull← ScreenByIndex(), windowManager::GetWindowIsFullScreenByName(), windowManager::GetWindowIsInFocus ← windowManager::GetWindowIsInFocusByName(), windowManager::GetWindowIsMaximizedBy ← Index(), windowManager::GetWindowIsMaximizedByName(), windowManager::GetWindowIsMinimizedByIndex(), windowManager::GetWindowIsMinimizedByName(), windowManager::GetWindowNameByIndex(), Manager::GetWindowPositionByIndex(), windowManager::GetWindowPositionByName(), windowManager::← windowManager::GetWindowResolutionByName(), GetWindowResolutionByIndex(), windowManager::Get← WindowShouldCloseByIndex(), windowManager::GetWindowShouldCloseByName(), windowManager::Initialize(), windowManager::MakeWindowCurrentContextByIndex(), $window Manager:: Make Window Current Context By \hookleftarrow$ Name(), windowManager::MaximizeWindowByIndex(), windowManager::MaximizeWindowByName(), window ← Manager::MinimizeWindowByIndex(), windowManager::MinimizeWindowByName(), windowManager::Platform ← InitializeGL(), windowManager::Platform SetWindowStyle(), windowManager::PollForEvents(), windowManager ← ::RemoveWindowByIndex(), windowManager::RemoveWindowByName(), windowManager::RestoreWindowBy ← Index(), windowManager::RestoreWindowByName(), windowManager::SetFullScreenByIndex(), windowManager ← ::SetFullScreenByName(), windowManager::SetMousePositionInScreen(), windowManager::SetMousePosition← InWindowByIndex(), windowManager::SetMousePositionInWindowByName(), windowManager::SetWindow ← IconByIndex(), windowManager::SetWindowIconByName(), windowManager::SetWindowOnDestroyedByIndex(),

windowManager::SetWindowOnDestroyedByName(), windowManager::SetWindowOnFocusByIndex(), window← Manager::SetWindowOnFocusByName(), windowManager::SetWindowOnKeyEventByIndex(), windowManager ← ::SetWindowOnKeyEventByName(), windowManager::SetWindowOnMaximizedByIndex(), windowManager← ::SetWindowOnMaximizedByName(), windowManager::SetWindowOnMinimizedByIndex(), windowManager← ::SetWindowOnMinimizedByName(), windowManager::SetWindowOnMouseButtonEventByIndex(), Manager::SetWindowOnMouseButtonEventByName(), windowManager::SetWindowOnMouseMoveByIndex(), windowManager::SetWindowOnMouseMoveByName(), windowManager::SetWindowOnMouseWheelEventBy ← Index(), windowManager::SetWindowOnMouseWheelEventByName(), windowManager::SetWindowOnMoved ← windowManager::SetWindowOnMovedByName(), windowManager::SetWindowOnResizeByIndex(), windowManager::SetWindowOnResizeByName(), windowManager::SetWindowPositionByIndex(), Manager::SetWindowPositionByName(), windowManager::SetWindowResolutionByIndex(), windowManager ← ::SetWindowResolutionByName(), windowManager::SetWindowStyleByIndex(), windowManager::SetWindow← StyleByName(), windowManager::SetWindowTitleBarByIndex(), windowManager::SetWindowTitleBarByName(), windowManager::WindowManager::WindowManager::WindowManager::WindowGetKeyByIndex(), windowManager::WindowGetKeyByName(), windowManager::WindowSwapBuffersByIndex(), and window ← Manager::WindowSwapBuffersByName().

```
211 {
212
        switch (errorNumber)
213
            case tinyWindowError_t::INVALID_WINDOW_NAME:
214
215
                printf( "Error: invalid window name \n" );
216
217
218
219
            case tinyWindowError t::INVALID ICON PATH:
220
221
222
                printf( "Error: invalid icon path \n" );
223
224
            }
225
226
            case tinyWindowError_t::INVALID_WINDOW_INDEX:
227
                printf( "Error: invalid window index \n" );
229
230
231
232
            case tinvWindowError t::INVALID WINDOW STATE:
233
234
                printf( "Error: invalid window state \n" );
235
236
237
238
            case tinyWindowError t::INVALID RESOLUTION:
239
                printf( "Error: invalid resolution \n" );
241
242
243
            case tinyWindowError_t::INVALID_CONTEXT:
244
245
246
                printf( "Error: Failed to create OpenGL context \n" );
247
248
            }
249
            case tinvWindowError t::EXISTING CONTEXT:
250
251
                printf( "Error: context already created \n");
253
254
255
            case tinvWindowError t::NOT INITIALIZED:
256
257
                printf( "Error: Window manager not initialized \n" );
258
259
260
261
262
            case tinvWindowError t::ALREADY INITIALIZED:
263
                printf( "Error: window has already been initialized \n" );
264
266
267
2.68
            case tinyWindowError_t::INVALID_TITLEBAR:
269
270
                printf( "Error: invalid title bar name ( cannot be null or nullptr ) \n" );
271
```

132 File Documentation

```
272
            }
273
274
            case tinyWindowError_t::INVALID_CALLBACK:
275
                printf( "Error: invalid event callback given \n");
276
277
                break:
278
            }
279
280
            case tinyWindowError_t::WINDOW_NOT_FOUND:
281
                printf( "Error: window was not found \n" );
282
283
                break:
284
            }
285
286
            case tinyWindowError_t::INVALID_WINDOWSTYLE:
287
                printf( "Error: invalid window style given \n");
288
289
290
291
292
            case tinyWindowError_t::FUNCTION_NOT_IMPLEMENTED:
293
2.94
                printf( "Error: I'm sorry but this function has not been implemented yet :( \n" );
295
                break;
296
            }
297
298
            case tinyWindowError_t::LINUX_CANNOT_CONNECT_X_SERVER
299
                printf( "Error: cannot connect to X server \n" );
300
301
                break:
302
            }
303
304
            case tinyWindowError_t::LINUX_INVALID_VISUALINFO:
305
                printf( "Error: Invalid visual information given \n" );
306
307
                break;
308
309
310
            case tinyWindowError_t::LINUX_CANNOT_CREATE_WINDOW:
311
                printf( "Error: failed to create window \n" );
312
313
                break:
314
            }
315
316
            case tinyWindowError_t::LINUX_FUNCTION_NOT_IMPLEMENTED
317
                printf("Error: function not implemented on linux platform yet. sorry :(\n");
318
319
                break:
320
321
322
            case tinyWindowError_t::WINDOWS_CANNOT_CREATE_WINDOW
323
324
                printf( "Error: failed to create window \n" );
325
                break;
326
327
            case tinyWindowError_t::WINDOWS_FUNCTION_NOT_IMPLEMENTED
328
      :
329
330
                printf( "Error: function not implemented on Windows platform yet. sorry;( \n");
331
                break;
332
333
334
            default:
335
                printf( "Error: unspecified Error \n" );
336
337
                break;
338
339
340 }
```

5.4.3 Variable Documentation

5.4.3.1 const int DEFAULT_WINDOW_HEIGHT = 720

Definition at line 35 of file TinyWindow.h.

5.4.3.2 _WIN32 _WIN64 const int DEFAULT_WINDOW_WIDTH = 1280

Definition at line 34 of file TinyWindow.h.

5.4.3.3 const int LINUX_DECORATOR = 2

Definition at line 179 of file TinyWindow.h.

5.4.3.4 const int LINUX_FUNCTION = 1

Definition at line 178 of file TinyWindow.h.

5.5 README.md File Reference

134 File Documentation

Index

\sim windowManager	windowManager::window_t, 12
windowManager, 22	AtomWindowTypeDesktop
	windowManager::window_t, 12
ALREADY_INITIALIZED	AtomWindowTypeNormal
TinyWindow.h, 125	windowManager::window_t, 12
ARCHITECTURE_ID	AtomWindowTypeSplash
CMakeCXXCompilerId.cpp, 117	windowManager::window_t, 12
AddWindow	attributes
windowManager, 23	windowManager::window_t, 12
AtomActionClose	<u>-</u> ,,
windowManager::window_t, 9	BARE
AtomActionMaximizeHorz	TinyWindow.h, 130
windowManager::window_t, 9	BAD
AtomActionMaximizeVert	TinyWindow.h, 128
windowManager::window_t, 9	, , , , , , , , , , , , , , , , , , ,
AtomActionMinimize	CMakeCXXCompilerId.cpp
windowManager::window_t, 9	ARCHITECTURE ID, 117
AtomActionResize	COMPILER ID, 117
windowManager::window_t, 9	DEC, 117
AtomActionShade	HEX, 118
windowManager::window_t, 10	info_arch, 119
AtomActive	info_compiler, 119
windowManager::window_t, 10	info_language_dialect_default, 11
AtomAllowedActions	info_platform, 119
windowManager::window t, 10	main, 118
AtomCardinal	PLATFORM ID, 118
windowManager::window_t, 10	STRINGIFY HELPER, 118
AtomClose	STRINGIFY, 118
windowManager::window_t, 10	COMPILER ID
AtomDemandsAttention	-
windowManager::window_t, 10	CMakeCXXCompilerId.cpp, 117 colorBits
AtomDesktopGeometry	
· · · · · · · · · · · · · · · · · · ·	windowManager::window_t, 12
windowManager::window_t, 10 AtomFocused	context
	windowManager::window_t, 13
windowManager::window_t, 11 AtomFullScreen	contextCreated
	windowManager::window_t, 13
windowManager::window_t, 11	currentState
AtomHidden	windowManager::window_t, 13
windowManager::window_t, 11	currentWindowStyle
AtomHints	windowManager::window_t, 13
windowManager::window_t, 11	
AtomIcon	DECORATOR_BORDER
windowManager::window_t, 11	TinyWindow.h, 125
AtomMaxHorz	DECORATOR_CLOSEBUTTON
windowManager::window_t, 11	TinyWindow.h, 125
AtomMaxVert	DECORATOR_ICON
windowManager::window_t, 12	TinyWindow.h, 125
AtomState	DECORATOR_MAXIMIZEBUTTON
windowManager::window_t, 12	TinyWindow.h, 125
AtomWindowType	DECORATOR_MINIMIZEBUTTON

TinyWindow.h, 125	GetInstance
DECORATOR_SIZEABLEBORDER	windowManager, 32
TinyWindow.h, 125	GetMousePositionInScreen
DECORATOR_TITLEBAR	windowManager, 33, 34
TinyWindow.h, 125	GetMousePositionInWindowByIndex
DEFAULT_WINDOW_HEIGHT	windowManager, 34, 35
TinyWindow.h, 132	GetMousePositionInWindowByName
DEFAULT_WINDOW_WIDTH	windowManager, 36
TinyWindow.h, 132	GetNumWindows
DEFAULT	windowManager, 37
TinyWindow.h, 130	GetScreenResolution
DEC	windowManager, 38, 39
CMakeCXXCompilerId.cpp, 117	GetWindowByIndex
DOWN	windowManager, 39
TinyWindow.h, 124, 128, 129	GetWindowByName
decorators	windowManager, 41
windowManager::window_t, 13	GetWindowIndexByName
depthBits	windowManager, 43
windowManager::window_t, 13	GetWindowIsFullScreenByIndex
destroyedEvent	windowManager, 44
windowManager::window_t, 14	GetWindowlsFullScreenByName
DisableWindowDecoratorByIndex	windowManager, 45
windowManager, 24	GetWindowlsInFocusByIndex
DisableWindowDecoratorByName	windowManager, 45
windowManager, 25	GetWindowlsInFocusByName
DoesExistByIndex	windowManager, 46
windowManager, 25	GetWindowIsMaximizedByIndex
DoesExistByName	windowManager, 47
windowManager, 27	GetWindowIsMaximizedByName
T)//07/1/10 00/177//T	windowManager, 47
EXISTING_CONTEXT	GetWindowIsMinimizedByIndex
TinyWindow.h, 125	windowManager, 48
EnableWindowDecoratorsByIndex	GetWindowIsMinimizedByName
windowManager, 29	windowManager, 49
EnableWindowDecoratorsByName	GetWindowNameByIndex
windowManager, 30	windowManager, 49
Example.cpp	GetWindowPositionByIndex
handleKeyPresses, 121	windowManager, 50, 51
main, 121	GetWindowPositionByName
Example/CMakeFiles/3.4.2/CompilerIdCXX/CMakeC←	windowManager, 51, 52
XXCompilerId.cpp, 117	GetWindowResolutionByIndex
Example/CMakeFiles/feature tests.cxx, 119	windowManager, 53
Example/Example.cpp, 120	GetWindowResolutionByName
	windowManager, 54, 55
FULLSCREEN	GetWindowShouldCloseByIndex
TinyWindow.h, 129	windowManager, 55
FUNCTION_NOT_IMPLEMENTED	GetWindowShouldCloseByName
TinyWindow.h, 125	
feature tests.cxx	windowManager, 56
features, 120	HEX
main, 120	
features	CMakeCXXCompilerId.cpp, 118
feature_tests.cxx, 120	handleKeyPresses
focusEvent	Example.cpp, 121
	INIVALID CALLBACK
windowManager::window_t, 14	INVALID_CALLBACK
FocusWindowByIndex	TinyWindow.h, 125
windowManager, 31	INVALID_CONTEXT
FocusWindowByName	TinyWindow.h, 125
windowManager, 32	INVALID_ICON_PATH

TinyWindow.h, 125	KEY_ERROR
INVALID_RESOLUTION	TinyWindow.h, 126
TinyWindow.h, 125	KEY_ESCAPE
INVALID_TITLEBAR	TinyWindow.h, 127
TinyWindow.h, 125	KEY_F1
INVALID_WINDOW_INDEX	TinyWindow.h, 126
TinyWindow.h, 125	KEY_F10
INVALID_WINDOW_NAME	TinyWindow.h, 126
TinyWindow.h, 125	KEY_F11
INVALID_WINDOW_STATE	TinyWindow.h, 126
TinyWindow.h, 125	KEY_F12
INVALID_WINDOWSTYLE	TinyWindow.h, 126
TinyWindow.h, 125	KEY_F2
iD windowManagagywindow t 14	TinyWindow.h, 126
windowManager::window_t, 14 inFocus	KEY_F3
	TinyWindow.h, 126
windowManager::window_t, 14 Include/TinyWindow.h, 122	KEY_F4
info arch	TinyWindow.h, 126
CMakeCXXCompilerId.cpp, 119	KEY_F5
info_compiler	TinyWindow.h, 126
CMakeCXXCompilerId.cpp, 119	KEY_F6
info_language_dialect_default	TinyWindow.h, 126
CMakeCXXCompilerId.cpp, 119	KEY_F7
info_platform	TinyWindow.h, 126
CMakeCXXCompilerId.cpp, 119	KEY_F8
Initialize	TinyWindow.h, 126
windowManager, 57	KEY_F9
initialized	TinyWindow.h, 126 KEY FIRST
windowManager::window_t, 14	TinyWindow.h, 126
instance	KEY HOME
windowManager, 114	TinyWindow.h, 127
isCurrentContext	KEY INSERT
windowManager::window_t, 14	TinyWindow.h, 127
IsInitialized	KEY KEYPAD 0
windowManager, 58	TinyWindow.h, 127
isInitialized	KEY_KEYPAD_1
windowManager, 114	TinyWindow.h, 127
IsValid	KEY KEYPAD 2
windowManager, 59	TinyWindow.h, 127
KEY_ARROW_DOWN	KEY_KEYPAD_3
TinyWindow.h, 127	TinyWindow.h, 127
KEY ARROW LEFT	KEY_KEYPAD_4
TinyWindow.h, 127	TinyWindow.h, 127
KEY_ARROW_RIGHT	KEY_KEYPAD_5
TinyWindow.h, 127	TinyWindow.h, 127
KEY ARROW UP	KEY_KEYPAD_6
TinyWindow.h, 127	TinyWindow.h, 127
KEY BACKSPACE	KEY_KEYPAD_7
TinyWindow.h, 127	TinyWindow.h, 127
KEY_CAPSLOCK	KEY_KEYPAD_8
TinyWindow.h, 126	TinyWindow.h, 127
KEY_DELETE	KEY_KEYPAD_9
TinyWindow.h, 127	TinyWindow.h, 127
KEY_ENTER	KEY_KEYPAD_ADD
TinyWindow.h, 127	TinyWindow.h, 127
KEY_END	KEY_KEYPAD_DIVIDE
TinyWindow.h, 127	TinyWindow.h, 127

KEY_KEYPAD_ENTER	LINUX_INVALID_VISUALINFO
TinyWindow.h, 127	TinyWindow.h, 125
KEY_KEYPAD_MULTIPLY	
TinyWindow.h, 127	MAXIMIZED
KEY_KEYPAD_PERIOD	TinyWindow.h, 129
TinyWindow.h, 127	MIDDLE
KEY KEYPAD SUBTRACT	TinyWindow.h, 129
TinyWindow.h, 127	MINIMIZED
KEY LAST	TinyWindow.h, 129
TinyWindow.h, 127	main
KEY LEFTALT	CMakeCXXCompilerId.cpp, 118
TinyWindow.h, 126	Example.cpp, 121
KEY LEFTCONTROL	feature_tests.cxx, 120
TinyWindow.h, 126	MakeWindowCurrentContextByIndex
KEY LEFTSHIFT	windowManager, 60
TinyWindow.h, 126	MakeWindowCurrentContextByName
KEY LEFTWINDOW	windowManager, 61
TinyWindow.h, 126	MaximizeWindowByIndex
KEY NUMLOCK	windowManager, 62
_	MaximizeWindowByName
TinyWindow.h, 127	
KEY_PAGEDOWN	windowManager, 63 maximizedEvent
TinyWindow.h, 127	
KEY_PAGEUP	windowManager::window_t, 15
TinyWindow.h, 127	MinimizeWindowByIndex
KEY_PAUSE	windowManager, 63
TinyWindow.h, 127	MinimizeWindowByName
KEY_PRINTSCREEN	windowManager, 64
TinyWindow.h, 127	minimizedEvent
KEY_RIGHTALT	windowManager::window_t, 15
TinyWindow.h, 127	mouseButton
KEY_RIGHTCONTROL	windowManager::window_t, 15
TinyWindow.h, 126	mouseButtonEvent
KEY_RIGHTSHIFT	windowManager::window_t, 15
TinyWindow.h, 126	mouseMoveEvent
KEY_RIGHTWINDOW	windowManager::window_t, 15
TinyWindow.h, 126	mousePosition
KEY_SCROLLLOCK	windowManager::window_t, 16
TinyWindow.h, 127	mouseWheelEvent
KEY TAB	windowManager::window_t, 16
TinyWindow.h, 127	movedEvent
keyEvent	windowManager::window_t, 16
windowManager::window_t, 15	3 = <i>r</i>
keys	NORMAL
windowManager::window_t, 15	TinyWindow.h, 129
., re	NOT INITIALIZED
LAST	TinyWindow.h, 125
TinyWindow.h, 129	name
LEFT	windowManager::window t, 16
TinyWindow.h, 129	midomidiagonimidon_i, ro
LINUX_CANNOT_CONNECT_X_SERVER	PLATFORM ID
TinyWindow.h, 125	CMakeCXXCompilerId.cpp, 118
LINUX_CANNOT_CREATE_WINDOW	POPUP
TinyWindow.h, 125	TinyWindow.h, 130
LINUX DECORATOR	Platform DisableWindowDecorators
TinyWindow.h, 133	windowManager, 65
LINUX_FUNCTION_NOT_IMPLEMENTED	Platform EnableWindowDecorators
	_
TinyWindow.h, 125	windowManager, 67
LINUX_FUNCTION	Platform_FocusWindow
TinyWindow.h, 133	windowManager, 68

Platform_InitializeGL	SetFullScreenByName
windowManager, 69	windowManager, 84
Platform_InitializeWindow	SetMousePositionInScreen
windowManager, 70	windowManager, 85
Platform_MakeCurrentContext	SetMousePositionInWindowByIndex
windowManager, 71	windowManager, 85
Platform_MaximizeWindow	SetMousePositionInWindowByName
windowManager, 71	windowManager, 86
Platform_MinimizeWindow	SetWindowlconByIndex
windowManager, 72	windowManager, 87
Platform_RestoreWindow	SetWindowlconByName
windowManager, 73	windowManager, 88
Platform_SetFullScreen	SetWindowOnDestroyedByIndex
windowManager, 74	windowManager, 88
Platform_SetMousePositionInWindow	SetWindowOnDestroyedByName
windowManager, 75	windowManager, 89
Platform_SetWindowPosition	SetWindowOnFocusByIndex
windowManager, 75	windowManager, 90
Platform_SetWindowResolution	SetWindowOnFocusByName
windowManager, 76	windowManager, 90
Platform_SetWindowStyle	SetWindowOnKeyEventByIndex
windowManager, 77	windowManager, 91
Platform_SetWindowTitleBar	SetWindowOnKeyEventByName
windowManager, 79	windowManager, 92
Platform_SwapBuffers	SetWindowOnMaximizedByIndex
windowManager, 79	windowManager, 92
PollForEvents	SetWindowOnMaximizedByName
windowManager, 80	windowManager, 93
position	SetWindowOnMinimizedByIndex
windowManager::window_t, 16	windowManager, 94
	SetWindowOnMinimizedByName
README.md, 133	windowManager, 94
RIGHT	SetWindowOnMouseButtonEventByIndex
TinyWindow.h, 129	windowManager, 95
RemoveWindowByIndex	SetWindowOnMouseButtonEventByName
windowManager, 81	windowManager, 96
RemoveWindowByName	_
windowManager, 81	SetWindowOnMouseMoveByIndex
resizeEvent	windowManager, 97
windowManager::window_t, 16	SetWindowOnMouseMoveByName
resolution	windowManager, 97
windowManager::window_t, 17	SetWindowOnMouseWheelEventByIndex
RestoreWindowByIndex	windowManager, 98
windowManager, 82	SetWindowOnMouseWheelEventByName
RestoreWindowByName	windowManager, 99
windowManager, 83	SetWindowOnMovedByIndex
	windowManager, 99
STRINGIFY_HELPER	SetWindowOnMovedByName
CMakeCXXCompilerId.cpp, 118	windowManager, 100
STRINGIFY	SetWindowOnResizeByIndex
CMakeCXXCompilerId.cpp, 118	windowManager, 101
screenMousePosition	SetWindowOnResizeByName
windowManager, 114	windowManager, 101
screenResolution	SetWindowPositionByIndex
windowManager, 115	windowManager, 102
setAttributes	SetWindowPositionByName
windowManager::window_t, 17	windowManager, 103
SetFullScreenByIndex	SetWindowResolutionByIndex
windowManager, 83	windowManager, 104

SetWindowResolutionByName	KEY_F1, 126
windowManager, 104	KEY_F10, 126
SetWindowStyleByIndex	KEY_F11, 126
windowManager, 105	KEY_F12, 126
SetWindowStyleByName	KEY_F2, 126
windowManager, 106	KEY_F3, 126
SetWindowTitleBarByIndex	KEY_F4, 126
windowManager, 107	KEY F5, 126
SetWindowTitleBarByName	KEY_F6, 126
windowManager, 107	KEY_F7, 126
shouldClose	KEY F8, 126
windowManager::window_t, 17	KEY_F9, 126
ShutDown	
windowManager, 108	KEY_FIRST, 126
ShutdownWindow	KEY_HOME, 127
	KEY_INSERT, 127
windowManager, 109	KEY_KEYPAD_0, 127
stencilBits	KEY_KEYPAD_1, 127
windowManager::window_t, 17	KEY_KEYPAD_2, 127
TINYWINDOW_ERROR	KEY_KEYPAD_3, 127
TinyWindow_Endon TinyWindow.h, 125	KEY_KEYPAD_4, 127
	KEY_KEYPAD_5, 127
TinyWindow.h	KEY_KEYPAD_6, 127
ALREADY_INITIALIZED, 125	KEY KEYPAD 7, 127
BARE, 130	KEY KEYPAD 8, 127
BAD, 128	KEY_KEYPAD_9, 127
DECORATOR_BORDER, 125	KEY_KEYPAD_ADD, 127
DECORATOR_CLOSEBUTTON, 125	KEY_KEYPAD_DIVIDE, 127
DECORATOR_ICON, 125	KEY_KEYPAD_ENTER, 127
DECORATOR_MAXIMIZEBUTTON, 125	
DECORATOR_MINIMIZEBUTTON, 125	KEY_KEYPAD_MULTIPLY, 127
DECORATOR_SIZEABLEBORDER, 125	KEY_KEYPAD_PERIOD, 127
DECORATOR_TITLEBAR, 125	KEY_KEYPAD_SUBTRACT, 127
DEFAULT_WINDOW_HEIGHT, 132	KEY_LAST, 127
DEFAULT_WINDOW_WIDTH, 132	KEY_LEFTALT, 126
DEFAULT, 130	KEY_LEFTCONTROL, 126
DOWN, 124, 128, 129	KEY_LEFTSHIFT, 126
EXISTING CONTEXT, 125	KEY_LEFTWINDOW, 126
FULLSCREEN, 129	KEY_NUMLOCK, 127
FUNCTION NOT IMPLEMENTED, 125	KEY_PAGEDOWN, 127
INVALID CALLBACK, 125	KEY_PAGEUP, 127
<u> </u>	KEY_PAUSE, 127
INVALID_CONTEXT, 125	KEY_PRINTSCREEN, 127
INVALID_ICON_PATH, 125	KEY RIGHTALT, 127
INVALID_RESOLUTION, 125	KEY_RIGHTCONTROL, 126
INVALID_TITLEBAR, 125	
INVALID_WINDOW_INDEX, 125	KEY_RIGHTSHIFT, 126
INVALID_WINDOW_NAME, 125	KEY_RIGHTWINDOW, 126
INVALID_WINDOW_STATE, 125	KEY_SCROLLLOCK, 127
INVALID_WINDOWSTYLE, 125	KEY_TAB, 127
KEY_ARROW_DOWN, 127	LAST, 129
KEY_ARROW_LEFT, 127	LEFT, 129
KEY_ARROW_RIGHT, 127	LINUX_CANNOT_CONNECT_X_SERVER, 125
KEY_ARROW_UP, 127	LINUX_CANNOT_CREATE_WINDOW, 125
KEY BACKSPACE, 127	LINUX_DECORATOR, 133
KEY_CAPSLOCK, 126	LINUX_FUNCTION_NOT_IMPLEMENTED, 125
KEY_DELETE, 127	LINUX FUNCTION, 133
KEY_ENTER, 127	LINUX_INVALID_VISUALINFO, 125
KEY END, 127	MAXIMIZED, 129
KEY_ERROR, 126	MIDDLE, 129
KEY_ESCAPE, 127	
NET_ESOAFE, 121	MINIMIZED, 129

NORMAL, 129	windowManager::window_t, 8
NOT_INITIALIZED, 125	WindowExists
POPUP, 130	windowManager, 111
RIGHT, 129	WindowGetKeyByIndex
TINYWINDOW_ERROR, 125	windowManager, 111
TinyWindow_PrintErrorMessage, 130	WindowGetKeyByName
tinyWindowButtonState_t, 124	windowManager, 112
tinyWindowDecorator_t, 124	windowHandle
tinyWindowError_t, 125	windowManager::window_t, 17
tinyWindowKey_t, 126	windowList
tinyWindowKeyState_t, 128	windowManager, 115
tinyWindowMouseButton_t, 128	windowManager, 18
tinyWindowMouseScroll_t, 129	\sim windowManager, 22
tinyWindowState_t, 129	AddWindow, 23
tinyWindowStyle_t, 129	DisableWindowDecoratorByIndex, 24
UP, 124, 128, 129	DisableWindowDecoratorByName, 25
WINDOW_NOT_FOUND, 125	DoesExistByIndex, 25
WINDOWS_CANNOT_CREATE_WINDOW, 125	DoesExistByName, 27
WINDOWS_CANNOT_INITIALIZE, 125	EnableWindowDecoratorsByIndex, 29
WINDOWS_FUNCTION_NOT_IMPLEMENTED,	EnableWindowDecoratorsByName, 30
126	FocusWindowByIndex, 31
TinyWindow_PrintErrorMessage	FocusWindowByName, 32
TinyWindow.h, 130	GetInstance, 32
tinyWindowButtonState_t	GetMousePositionInScreen, 33, 34
TinyWindow.h, 124	GetMousePositionInWindowByIndex, 34, 35
tinyWindowDecorator_t	GetMousePositionInWindowByName, 36
TinyWindow.h, 124	GetNumWindows, 37
tinyWindowError_t	GetScreenResolution, 38, 39
TinyWindow.h, 125	GetWindowByIndex, 39
tinyWindowKey_t	GetWindowByName, 41
TinyWindow.h, 126	GetWindowIndexByName, 43
tinyWindowKeyState_t	GetWindowlsFullScreenByIndex, 44
TinyWindow.h, 128	GetWindowlsFullScreenByName, 45
tinyWindowMouseButton_t	GetWindowlsInFocusByIndex, 45
TinyWindow.h, 128	GetWindowlsInFocusByName, 46
tinyWindowMouseScroll_t	GetWindowlsMaximizedByIndex, 47
TinyWindow.h, 129	GetWindowIsMaximizedByName, 47
tinyWindowState_t	GetWindowlsMinimizedByIndex, 48
TinyWindow.h, 129	GetWindowlsMinimizedByName, 49
tinyWindowStyle_t	GetWindowNameByIndex, 49
TinyWindow.h, 129	GetWindowPositionByIndex, 50, 51
110	GetWindowPositionByName, 51, 52
UP	GetWindowResolutionByIndex, 53
TinyWindow.h, 124, 128, 129	GetWindowResolutionByName, 54, 55
viguallafo	GetWindowShouldCloseByIndex, 55
visualInfo	GetWindowShouldCloseByName, 56
windowManager::window_t, 17	Initialize, 57
WINDOW_NOT_FOUND	instance, 114
TinyWindow.h, 125	IsInitialized, 58
WINDOWS_CANNOT_CREATE_WINDOW	isInitialized, 114
TinyWindow.h, 125	IsValid, 59
WINDOWS_CANNOT_INITIALIZE	MakeWindowCurrentContextByIndex, 60
TinyWindow.h, 125	MakeWindowCurrentContextByName, 61
WINDOWS_FUNCTION_NOT_IMPLEMENTED	MaximizeWindowByIndex, 62
TinyWindow.h, 126	MaximizeWindowByName, 63
WaitForEvents	MinimizeWindowByIndex, 63
windowManager, 110	MinimizeWindowByName, 64
window_t	Platform_DisableWindowDecorators, 65
* * * = *	

Platform_EnableWindowDecorators, 67	ShutdownWindow, 109
Platform_FocusWindow, 68	WaitForEvents, 110
Platform_InitializeGL, 69	WindowExists, 111
Platform_InitializeWindow, 70	WindowGetKeyByIndex, 111
Platform MakeCurrentContext, 71	WindowGetKeyByName, 112
Platform_MaximizeWindow, 71	windowList, 115
Platform_MinimizeWindow, 72	windowManager, 22
Platform RestoreWindow, 73	WindowSwapBuffersByIndex, 112
Platform SetFullScreen, 74	WindowSwapBuffersByName, 113
Platform_SetMousePositionInWindow, 75	windowManager::window_t, 7
Platform SetWindowPosition, 75	AtomActionClose, 9
Platform_SetWindowResolution, 76	AtomActionMaximizeHorz, 9
Platform_SetWindowStyle, 77	AtomActionMaximizeVert, 9
Platform SetWindowTitleBar, 79	AtomActionMinimize, 9
-	AtomActionResize, 9
Platform_SwapBuffers, 79	
PollForEvents, 80	AtomActionShade, 10
RemoveWindowByIndex, 81	AtomActive, 10
RemoveWindowByName, 81	AtomAllowedActions, 10
RestoreWindowByIndex, 82	AtomCardinal, 10
RestoreWindowByName, 83	AtomClose, 10
screenMousePosition, 114	AtomDemandsAttention, 10
screenResolution, 115	AtomDesktopGeometry, 10
SetFullScreenByIndex, 83	AtomFocused, 11
SetFullScreenByName, 84	AtomFullScreen, 11
SetMousePositionInScreen, 85	AtomHidden, 11
SetMousePositionInWindowByIndex, 85	AtomHints, 11
SetMousePositionInWindowByName, 86	AtomIcon, 11
SetWindowlconByIndex, 87	AtomMaxHorz, 11
SetWindowlconByName, 88	AtomMaxVert, 12
SetWindowOnDestroyedByIndex, 88	AtomState, 12
SetWindowOnDestroyedByName, 89	AtomWindowType, 12
SetWindowOnFocusByIndex, 90	AtomWindowTypeDesktop, 12
SetWindowOnFocusByName, 90	AtomWindowTypeNormal, 12
SetWindowOnKeyEventByIndex, 91	AtomWindowTypeSplash, 12
SetWindowOnKeyEventByName, 92	attributes, 12
SetWindowOnMaximizedByIndex, 92	colorBits, 12
SetWindowOnMaximizedByName, 93	context, 13
SetWindowOnMinimizedByIndex, 94	contextCreated, 13
SetWindowOnMinimizedByName, 94	currentState, 13
SetWindowOnMouseButtonEventByIndex, 95	currentWindowStyle, 13
SetWindowOnMouseButtonEventByName, 96	decorators, 13
SetWindowOnMouseMoveByIndex, 97	depthBits, 13
SetWindowOnMouseMoveByName, 97	destroyedEvent, 14
SetWindowOnMouseWheelEventByIndex, 98	focusEvent, 14
SetWindowOnMouseWheelEventByName, 99	iD, 14
SetWindowOnMovedByIndex, 99	inFocus, 14
SetWindowOnMovedByName, 100	initialized, 14
SetWindowOnResizeByIndex, 101	isCurrentContext, 14
SetWindowDesitionPyladov, 103	keyEvent, 15
SetWindowPositionByIndex, 102	keys, 15
SetWindowPositionByName, 103	maximizedEvent, 15
SetWindowResolutionByIndex, 104	minimizedEvent, 15
SetWindowResolutionByName, 104	mouseButton, 15
SetWindowStyleByIndex, 105	mouseButtonEvent, 15
SetWindowStyleByName, 106	mouseMoveEvent, 15
SetWindowTitleBarByIndex, 107	mousePosition, 16
SetWindowTitleBarByName, 107	mouseWheelEvent, 16
ShutDown, 108	movedEvent, 16

```
name, 16
position, 16
resizeEvent, 16
resolution, 17
setAttributes, 17
shouldClose, 17
stencilBits, 17
visualInfo, 17
window_t, 8
windowHandle, 17
WindowSwapBuffersByIndex
windowManager, 112
WindowSwapBuffersByName
windowManager, 113
```