Cairo-Dock

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Chapter 1

Cairo-Dock's API documentation.

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1.1 Introduction

This documentation presents the core library of Cairo-Dock: libgldi (GL Desktop Interface).

It is useful if you want to write a plug-in, add new features in the core, or just love C.

Note: to write applets in any language very easily, see https://github.com/Cairo-Dock/cairo-dock-core/wiki/Writing-an-applet.

It has a **decentralized conception** and is built of several modules: internal modules (Managers) and external modules (Modules) that can extend it.

It also has an Objects architecture.

1.2 Installation

The installation is very easy and uses cmake. In a terminal, copy-paste the following commands:

```
### grab the sources of the core
mkdir CD && cd CD
bzr checkout --lightweight lp:cairo-dock-core
### compil the dock and install it
cd cairo-dock-core
cmake CMakeLists.txt -DCMAKE_INSTALL_PREFIX=/usr
make
sudo make install
### grab the sources of the plug-ins
cd ..
bzr checkout --lightweight lp:cairo-dock-plug-ins
### compil the stable plug-ins and install them
cmake CMakeLists.txt -DCMAKE_INSTALL_PREFIX=/usr
make
sudo make install
```

To install unstable plug-ins, add -Denable-xxx=yes to the cmake command, where xxx is the lower-case name of the applet.

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1.3 Main structures

1.3.1 Objects

Any element in *libgldi* is a _GldiObject.

An Object is created by an ObjectManager, which defines the properties and notifications of its children.

It has a reference counter, can be deleted from the current theme, and can be reloaded.

An Object can cast **notifications**; notifications are broadcasted on its ObjectManager.

An ObjectManager can inherit from another ObjectManager; in this case, all methods of the parent ObjectManagers are called recursively, and likewise all notifications on an Object are casted recursively to all parent ObjectManagers.

See _GldiObject and cairo-dock-object.h for more details.

1.3.2 Managers

The core is divided in several internal modules, called Managers.

Each Manager manages a set of parameters and objects (for instance, the Dock Manager manages the list of all Docks and their parameters).

See _GldiManager and cairo-dock-manager.h for more details.

1.3.3 Containers

Containers are generic animated windows. They can hold Icons and support cairo/OpenGL drawing.

See _GldiContainer and cairo-dock-container.h for more details.

1.3.4 Icons

Icons are elements inside a Container on which the user can interact. For instance, a Launcher is an Icon that launches a program on left-click.

See _lcon and cairo-dock-icon-factory.h for more details.

1.3.5 Dock

Docks are a kind of Container that sits on a border of the screen.

See $_$ CairoDock and cairo-dock-dock-factory.h for more details.

1.3.6 Desklet

Desklets are a kind of Container that stays on the desktop and holds one or many icons.

See _CairoDesklet and cairo-dock-desklet-factory.h for more details.

1.3.7 Dialog

Dialogs are a kind of Container that holds no icon, but rather point to an icon, and are used to display some information or interact with the user.

See _CairoDialog and cairo-dock-dialog-factory.h for more details.

1.3.8 Modules

A Module is an Object representing a plug-in for libgldi.

It defines a set of properties and an interface for init/stop/reload.

A Module that adds an Icon is called an "applet".

See GldiModule and cairo-dock-module-manager.h for more details.

Note: the cairo-dock-plug-ins project is a set of modules in the form of loadable libraries (.so files).
the cairo-dock-plug-ins-extra project is a set of modules in the form of scripts (Python or any language) that interact on the core through Dbus.

1.3.9 Module-Instances

A Module-Instance is an actual instance of a Module.

It holds a set of parameters and data (amongst them the Applet-Icon if it's an applet).

A Module can have several instances.

See _GldiModuleInstance and cairo-dock-module-instance-manager.h for more details.

1.3.10 Drawing with cairo/opengl

libgldi defines _CairoDockImageBuffer, a generic Image that works for both cairo and OpenGL. See cairo-dock-image-buffer.h for more details.

It is possible to add small images above lcons; they are called _CairoOverlay.

For instance quick-info and progress-bars are Overlays.

See cairo-dock-overlay.h for more details.

1.3.11 Windows management

libgldi keeps track of all the currently existing windows, with all their properties, and notifies everybody of any change. It is used for the Taskbar.

Each window has a corresponding _GldiWindowActor object.

See cairo-dock-windows-manager.h for more details.

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1.3.12 Display scaling

Cairo-Dock now supports integer display scale factors > 1 (fractional scaling is not supported and will likely result in a higher integer scale factor used). Display scale is determined by querying it from GDK using gdk_window_\circ get_scale_factor () of the window to be rendered, or the primary dock (g_pMainDock).

Most of the code is independent of the scale factor and uses logical pixels according to how rendering in GTK works. Specifically, the Cairo rendering code does this entirely, as the context supplied by GTK has the proper scale factor set. We need to consider the scale factor in the following cases though:

- OpenGL rendering: Contrary to Cairo, we need to manually set up a "scaling" before rendering. This is done by calling glScalef () with the correct scale factor before rendering (so that the rest of the code can work with logical coordinates) and by giving the physical pixel size of surfaces when setting up our viewports (gldi_gl_container_set_ortho_view () and gldi_gl_container_set_perspective_view () in cairo-dock-opengl.c).
- EGL: when using EGL with Wayland, we need to give the correct pixel size when creating surfaces corresponding to our windows; also, we need to explicitly set the surface scale in some cases (cairo-dock-egl.c)
- Creating surfaces: when creating Cairo surfaces and OpenGL textures that we draw to, we need to ensure
 that these have the correct pixel size (i.e. logical size multiplied by the scale factor). For Cairo surfaces, we
 need to set a scale factor as well with cairo_surface_set_device_scale (). This is done in cairo-dock-surfacefactory.c, using the scale factor from g_pMainDock for now (but could be extended to take the scale factor as
 a parameter to handle situations when rendering to multiple displays with different scale factors).
- Loading images: most importantly, when loading any image (e.g. icons corresponding to windows in the taskbar / applets), we need to ensure that it gets loaded with the correct size, so that it will be rendered without being blurry. This is supported by a combination of multiple components: (1) The cairo_dock_search_icon_s_path () function is used to find the actual image files to load in most cases. This function automatically uses the scale factor of g_pMainDock when searching images (with gtk_icon_theme← lookup_icon_for_scale ()) to find image files with the correct resolution. (2) Icons to be displayed in the dock are then loaded in their natural size, which should then be large enough to be rendered correctly. (3) In some cases, we load an image at a specified size; we take care to supply the scaled size here. (4) SVG images are loaded by "rendering" them to a Cairo surface with the correct pixel size and scale. E.g. if you just need an icon at a specified size, use cairo_dock_create_surface_from_icon () that will ensure that the correct scale is used.
- Tracking window locations on X11: when communicating directly with the X server, we get unscaled coordinates (that correspond to physical pixels on the screen). This is relevant for tracking window locations, checking if they overlap with the dock or sending windows to specific viewport / display. We handle these by dividing the coordinates by the scale factor got from GDK, so that we can work in logical coordinates here as well. Note: this assumes all monitors have the same scale which seems to be the case always for X11.

1.4 External Modules

1.4.1 Create a new applet

Go to the "plug-ins" folder, and run the *generate-applet.sh* script. Answer the few questions, and you're done! The script creates a <module-name> folder, with *src* and *data* sub-folders, which contain the following:

- · data/icon.png: the default icon of your applet
- data/preview.jpg: a preview of your applet, around 200x200 pixels
- data/<module-name>.conf.in: the config file of your applet
- src/applet-init.c: contains the init, stop and reload methods, as well as the definition of your applet.
- src/applet-config.c: container the get config and reset config methods
- src/applet-notifications.c: contains the callbacks of your applet (ie, the code that is called on events, for instance on click on the icon)
- src/applet-struct.h: contains the structures (Config, Data, and any other you may need)

Note: when adding a new file, don't forget to add it in the CMakeLists.txt.

when changing something in the config file, don't forget to update the version number of the applet, in the main CMakeLists.txt.

when changing anything, don't forget to install (sudo make install)

1.4.2 First steps

Edit the file *src/applet-inic.c*; the macro CD_APPLET_DEFINITION2 is a convenient way to define an applet: just fill its name, its category, a brief description, and your name.

In the section CD APPLET INIT BEGIN/CD APPLET INIT END, write the code that will run on startup.

In the section CD_APPLET_STOP_BEGIN/CD_APPLET_STOP_END, write the code that will run when the applet is deactivated: remove any timer, destroy any allocated ressources, unregister notifications, etc.

In the section CD_APPLET_RELOAD_BEGIN/CD_APPLET_RELOAD_END section, write the code that will run when the applet is reloaded; this can happen in 2 cases:

- when the configuration is changed (CD_APPLET_MY_CONFIG_CHANGED is TRUE, for instance when the user edits the applet)
- when something else changed (CD_APPLET_MY_CONFIG_CHANGED is FALSE, for instance when the icon theme is changed, or the icon size is changed); in this case, most of the time you have nothing to do, except if you loaded some ressources yourself.

Edit the file *src/applet-config.c*; In the section CD_APPLET_GET_CONFIG_BEGIN/CD_APPLET_GET_CONFIG — _END, get all your config parameters (don't forget to define them in applet-struct.h). Use the CD_CONFIG_GET_* macros (defined in cairo-dock-applet-facility.h) to do so conveniently.

In the section CD_APPLET_RESET_CONFIG_BEGIN/CD_APPLET_RESET_CONFIG_END, free any config parameter that was allocated (for instance, strings).

Edit the file src/applet-notifications.c;

In the section CD_APPLET_ON_CLICK_BEGIN/CD_APPLET_ON_CLICK_END, write the code that will run when the user clicks on the icon (or an icon of the sub-dock).

There are other similar sections available:

• CD_APPLET_ON_MIDDLE_CLICK_BEGIN/ CD_APPLET_ON_MIDDLE_CLICK_END for the actions on middle click on your icon or one of its sub-dock.

1.4 External Modules 7

• CD_APPLET_ON_DOUBLE_CLICK_BEGIN/ CD_APPLET_ON_DOUBLE_CLICK_END for the actions on double click on your icon or one of its sub-dock.

- CD_APPLET_ON_SCROLL_BEGIN/ CD_APPLET_ON_SCROLL_END for the actions on scroll on your icon
 or one of its sub-dock.
- CD_APPLET_ON_BUILD_MENU_BEGIN/ CD_APPLET_ON_BUILD_MENU_END for the building of the menu on left click on your icon or one of its sub-dock.

To register to an event, use one of the following convenient macro during the init:

- CD APPLET REGISTER FOR CLICK EVENT
- CD_APPLET_REGISTER_FOR_MIDDLE_CLICK_EVENT
- CD APPLET REGISTER FOR DOUBLE CLICK EVENT
- · CD APPLET REGISTER FOR SCROLL EVENT
- CD_APPLET_REGISTER_FOR_BUILD_MENU_EVENT

Note: don't forget to unregister during the stop.

1.4.3 Go further

A lot of useful macros are provided in cairo-dock-applet-facility.h to make your life easier.

The applet instance is **myApplet**, and it holds the following:

- mylcon: this is your icon!
- myContainer: the container your icon belongs to (a Dock or a Desklet). For convenience, the following 2 parameters are available.
- myDock : if your container is a dock, myDock = myContainer, otherwise it is NULL.
- myDesklet : if your container is a desklet, myDesklet = myContainer, otherwise it is NULL.
- myConfig: the structure holding all the parameters you get in your config file. You have to define it in applet-struct.h.
- myData: the structure holding all the ressources loaded at run-time. You have to define it in applet-struct.h.
- myDrawContext: a cairo context, if you need to draw on the icon with the libcairo.
- To get values contained inside your conf file, you can use the following:
 CD_CONFIG_GET_BOOLEAN & cie
- To build your menu, you can use the following : CD_APPLET_ADD_SUB_MENU & cie
- To directly set an image on your icon, you can use the following:
 CD_APPLET_SET_IMAGE_ON_MY_ICON & cie
- To modify the label of your icon, you can use the following : CD_APPLET_SET_NAME_FOR_MY_ICON & cie
- To set a quick-info on your icon, you can use the following : CD_APPLET_SET_QUICK_INFO_ON_MY_ICON & cie
- To create a surface that fits your icon from an image, you can use the following:
 CD_APPLET_LOAD_SURFACE_FOR_MY_APPLET & cie
- To trigger the refresh of your icon or container after you drew something, you can use the following:
 CD_APPLET_REDRAW_MY_ICON & CAIRO_DOCK_REDRAW_MY_CONTAINER

1.4.4 How can I take advantage of the OpenGL?

There are 3 cases:

- your applet just has a static icon; there is nothing to take into account, the common functions to set an image or a surface on an icon already handle the texture mapping.
- you draw dynamically on your icon with libcairo (using myDrawContext), but you don't want to bother with OpenGL; all you have to do is to call /ref cairo_dock_update_icon_texture to update your icon's texture after you drawn your surface. This can be done for occasional drawings, like Switcher redrawing its icon each time a window is moved.
- you draw your icon differently whether the dock is in OpenGL mode or not; in this case, you just need to put all the OpenGL commands into a CD_APPLET_START_DRAWING_MY_ICON/CD_APPLET_FINISH_← DRAWING_MY_ICON section inside your code. If your applet relies on OpenGL for its core function, such that it does not make sense to use it without (e.g. it adds OpenGL effects to the dock or icons etc.), add CAIRO← DOCK_MODULE_REQUIRES_OPENGL to the flags (second argument) in CD_APPLET_DEFINITION2. This will result in the applet not loaded at all if OpenGL is not available.

There are also a lot of convenient functions you can use to draw in OpenGL. See cairo-dock-draw-opengl.h for loading and drawing textures and paths, and cairo-dock-particle-system.h for an easy way to draw particle systems.

1.4.5 How can I animate my applet to make it more lively?

If you want to animate your icon easily, to signal some action (like *Music-Player* when a new song starts), you can simply **request for one of the registered animations** with CD_APPLET_ANIMATE_MY_ICON and stop it with CD_APPLET_STOP_ANIMATING_MY_ICON. You just need to specify the name of the animation (like "rotate" or "pulse") and the number of time it will be played.

But you can also make your own animation, like *Clock* of *Cairo-Penguin*. You will have to integrate yourself into the rendering loop of your container. Don't panic, here again, Cairo-Dock helps you!

First you will register to the "update container" notification, with a simple call to CD_APPLET_REGISTER_FOR_UPDATE_ICON_SLON or CD_APPLET_REGISTER_FOR_UPDATE_ICON_EVENT, depending on the refresh frequency you need ← : ~10Hz or ~33Hz. A high frequency needs of course more CPU, and most of the time the slow frequancy is enough.

Then you will just put all your code in a CD_APPLET_ON_UPDATE_ICON_BEGIN/ CD_APPLET_ON_UPDATE ← _ICON_END section. That's all ! In this section, do what you want, like redrawing your icon, possibly incrementing a counter to know until where you went, etc. See the previous paragraph to draw on your icon. Inside the rendering loop, you can skip an iteration with CD_APPLET_SKIP_UPDATE_ICON, and quit the loop with CD_APPLET_STOP_UPDATE_ICON or CD_APPLET_PAUSE_UPDATE_ICON (don't forget to quit the loop when you're done, otherwise your container may continue to redraw itself, which means a needless CPU load).

To know the size allocated to your icon, use the convenient CD_APPLET_GET_MY_ICON_EXTENT.

1.4.6 I have heavy treatments to do, how can I make them without slowing the dock?

Say for instance you want to download a file on the Net, it is likely to take some amount of time, during which the dock will be frozen, waiting for you. To avoid such a situation, Cairo-Dock defines Tasks. They perform their job asynchronously, and can be **periodic**. See cairo-dock-task.h for a quick explanation on how a Task works.

You create a Task with cairo_dock_new_task, launch it with cairo_dock_launch_task, and either cancel it with cairo ← dock_discard_task or destroy it with cairo_dock_free_task.

1.4.7 Key binding

You can bind an action to a shortkey with the following macro: CD_APPLET_BIND_KEY. For instance, the GMenu applet displays the menu on ctrl+F1. You get a GldiShortkey that you simply destroy when the applet stops (with gldi object unref).

See cairo-dock-keybinder.h for more details.

1.4.8 I need more than one icon, how can I easily get more?

In dock mode, your icon can have a sub-dock; in desklet mode, you can load a list of icons into your desklet. Cairo-Dock provides a convenient macro to **quickly load a list of icons** in both cases \hookleftarrow : CD_APPLET_LOAD_MY_ICONS_LIST to load a list of icons and CD_APPLET_DELETE_MY_ICONS_LIST to destroy it. Thus you don't need to know in which mode you are, neither to care about loading the icons, freeing them, or anything.

You can get the list of icons with CD_APPLET_MY_ICONS_LIST and to their container with CD_APPLET_MY_ICONS_LIST_CONTAIL

1.4.9 How do I provide translations (internationalization) for my applet?

Cairo-Dock uses the standard gettext library to provide translated strings in its user interface. Specifically, the dgettext() function is used when creating menus, the configuration interface, etc. For plugins that are part of the official plugins package, the "cairo-dock-plugins" message domain is used and this is set by default when loading a plugin. For external plugins, it is recommended to define your own message domain and install translations accordingly (after compiling them with msgfmt). Within the plugin code, use dgettext() when displaying text to the user. To ensure that translation of configuration options work, you should provide the message domain also when your plugin is loaded. This is achieved by using the CD_APPLET_DEFINE2_BEGIN macro (see Applets with advanced initialization steps or providing core functionality) and setting pVisitCard->cGettextDomain to the message domain of your plugin. You should also call the bindtextdomain() function at this point to supply where translations are installed.

1.5 Advanced functionnalities

1.5.1 How can I make my own widgets in the config panel?

Cairo-Dock can build itself the config panel of your applet from the config file. Moreover, it can do the opposite: update the confile from the config panel. However, it is limited to the widgets it knows, and there are some cases it is not enough. Because of that, Cairo-Dock offers 2 hooks in the process of building/reading the config panel: when defining your applet in the CD_APPLET_DEFINE2_BEGIN/CD_APPLET_DEFINE2_END section (see below), add to the interface the 2 functions pInterface->load_custom_widget and pInterface->save_custom_widget. They will be respectively called when the config panel of your applet is raised, and when it is validated.

If you want to modify the content of an existing widget, you can grab it with cairo_dock_gui_find_group_key_widget_in_list. To add your custom widgets, insert in the conf file an empty widget (with the prefix '_'), then grab it and pack some GtkWidget inside. If you want to dynamically alter the config panel (like having a "new" button that would make appear new widgets on click), you can add in the conf file the new widgets, and then call cairo_dock_reload_current_module_widget to reload the config panel. See the AlsaMixer or Weather applets for an easy example, and Clock or Mail for a more advanced example.

1.5.2 How can my applet control the window of an application?

Say your applet launches an external application that has its own window. It is logical to **make your applet control this application**, rather than letting the Taskbar do. All you need to do is to call the macro CD_APPLET_MANAGE_APPLICATION, indicating which application you wish to manage (you need to enter the class of the application, as you can get from "xprop | grep CLASS"). Your applet will then behave like a launcher that has stolen the appli icon.

1.5.3 How can I render some numerical values on my icon?

Cairo-Dock offers a powerful and versatile architecture for this case: _CairoDataRenderer. A DataRenderer is a generic way to render a set of values on an icon; there are several implementations of this class: Gauge, Cairo DockGraph, Bar, and it is quite easy to implement a new kind of DataRenderer.

Each kind of renderer has a set of attributes that you can use to customize it; you just need to call the CD_APPLET_ADD_DATA_RENDERER_ON_MY_ICON macro with the attributes, and you're done! Then, each time you want to render some new values, simply call CD_APPLET_RENDER_NEW_DATA_ON_MY_ICON with the new values.

When your applet is reloaded, you have to reload the DataRenderer as well, using the convenient CD_APPLET_RELOAD_MY_DATA_RENDERER macro. If you don't specify attributes to it, it will simply reload the current DataRenderer, otherwise it will load the new attributes; the previous data are not lost, which is useful in the case of Graph for instance.

You can remove it at any time with CD APPLET REMOVE MY DATA RENDERER.

1.5.4 How can I make my applet multi-instanciable?

Applets can be launched several times, an instance will be created each time. To ensure your applet can be instanciated several times, you just need to pass myApplet to any function that uses one of its fields (myData, mylcon, etc). Then, to indicate Cairo-Dock that your applet is multi-instanciable, you'll have to define the macro CD_APPLET_MULTI_INSTANCE in each file. A convenient way to do that is to define it in the CMakeLists.txt by adding the following line:

add_definitions (-DCD_APPLET_MULTI_INSTANCE="1")

1.5.5 How can I draw anywhere on the dock, not only on my icon?

Say you want to draw directly on your container, like *CairoPenguin* or *ShowMouse* do. This can be achieved easily by registering to the NOTIFICATION_RENDER notification. You will then be notified eash time a Dock or a Desklet is drawn. Register AFTER so that you will draw after the view.

Generated by Doxygen

1.5.6 Applets with advanced initialization steps or providing core functionality

Some applets need more control over their life-cycle. Beyond applets that define their own message domain for internationalization (see How do I provide translations (internationalization) for my applet ?), this typically relates to applets that provide some essential functionality for the dock (e.g. renderers, desktop environment integration, etc.). In this case, instead of defining the applet with CD_APPLET_DEFINITION2, use the macro pair CD_APPLET_CDEFINE2 BEGIN / CD_APPLET_DEFINE2 END and

- Add early initialization steps between these; this will be run when the applet is first opened (loaded from disk), regardless wether it is enabled yet. Be careful that the applet's instance variable (myApplet) and configuration (myConfig) are not available at this point (so you will need to use static variables to save any state). Also, no docks, cairo or OpenGL contexts exist, and the current theme has not been loaded at this point as well. It is thus recommended to keep things here absolute minimal.
- Also you have to manually define the applet's interface here (load, stop, config functions, etc.); see the Gldi
 ModuleInterface struct from cairo-dock-module-manager.h for a description of each function and what it does,
 or use the CD_APPLET_DEFINE_COMMON_APPLET_INTERFACE macro that defines these with the usual
 function names thus you can use the same macros as you would with CD_APPLET_DEFINITION2.

1.5.7 Auto-loaded applets

A special class of applets is considered "auto-loaded": this means that the applet is always enabled and cannot be disabled by the user. Note that the init() and stop() functions are still called as normal whenever Cairo-Dock reloads its full configuration (i.e. when changing the current theme). However, there are slight differences:

- The configuration of auto-loaded applets is read (CD_APPLET_GET_CONFIG_BEGIN / read_conf_file ()) earlier than for normal applets. Specifically, this happens before creating any of the docks, but after CairoDock's core configuration has been loaded. This means that such applets should not rely on the existence of any docks, or their drawing context when reading their configuration (this is not recommended anyway for normal applets). On the other hand, such applets can provide parameters when creating docks (e.g. dock-rendering is an example of this).
- Initialization of such applets (CD_APPLET_INIT_BEGIN / initModule ()) happens earlier than for normal applets. Specifically, this is done after the main dock has been created and core functionality has started, but before adding any launchers (normal applets' init happens after loading launchers).
- Auto-loaded applets are stopped after regular ones.

An applet is defined as auto-loaded if it's type is CAIRO_DOCK_MODULE_IS_PLUGIN and at least one of the following is true:

- it does not have an initModule () function
- it does not have a stopModule () function
- it extends a core functionality ("manager") of Cairo-Dock: this is achieved by using the CD_APPLET_←
 EXTEND MANAGER macro when the module is read

Note: all of the above need to be defined by using CD_APPLET_DEFINE2_BEGIN / CD_APPLET_DEFINE2_END

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Chapter 4

Data Structure Documentation

4.1 _CairoDataRenderer Struct Reference

Generic DataRenderer. Any implementation of a DataRenderer will derive from this class.

```
#include <cairo-dock-data-renderer.h>
```

Data Fields

· CairoDataRendererInterface interface

interface of the Data Renderer.

• CairoDataToRenderer data

internal data to be drawn by the renderer.

· gint iWidth

size of the drawing area.

CairoDataRendererFormatValueFunc format_value

specific function to format the values as text.

• gchar cFormatBuffer [CAIRO_DOCK_DATA_FORMAT_MAX_LEN+1]

buffer for the text.

• gpointer pFormatData

data passed to the format fonction.

• gboolean bUpdateMinMax

TRUE <=> the Data Renderer should dynamically update the range of the values.

• gboolean bWriteValues

TRUE <=> the Data Renderer should write the values as text itself.

• gint iLatencyTime

the time it will take to update to the new value, with a smooth animation (require openGL capacity)

· gint iRank

the rank of the renderer, eg the number of values it can display at once (for exemple, 1 for a bar, 2 for a dual-gauge)

• gboolean bCanRenderValueAsText

set to TRUE <=> the renderer can draw the values as text itself.

gboolean bRotateWithContainer

set to TRUE <=> the drawing will be rotated if the container is vertical.

• RendererRotateTheme iRotateTheme

an option to rotate applet, no, automatic or always.

gboolean bisRotate

set to TRUE <=> the theme images are rotated 90 °clockwise.

gboolean bUseOverlay

whether the data-renderer draws on an overlay rather than directly on the icon.

CairoOverlayPosition iOverlayPosition

position of the overlay, in the case the renderer uses one.

CairoDataRendererText * pLabels

an optionnal list of labels to be displayed on the Data Renderer to indicate the nature of each value. Same size as the set of values.

CairoDataRendererEmblem * pEmblems

an optionnal list of emblems to be displayed on the Data Renderer to indicate the nature of each value. Same size as the set of values.

CairoDataRendererTextParam * pValuesText

an optionnal list of text zones to write the values. Same size as the set of values.

gint iSmoothAnimationStep

the animation counter for the smooth movement.

gdouble fLatency

latency due to the smooth movement (0 means the displayed value is the current one, 1 the previous)

4.1.1 Detailed Description

Generic DataRenderer. Any implementation of a DataRenderer will derive from this class.

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

· cairo-dock-data-renderer.h

4.2 _CairoDataRendererAttribute Struct Reference

Generic DataRenderer attributes structure. The attributes of any implementation of a DataRenderer will derive from this class.

#include <cairo-dock-data-renderer.h>

Data Fields

• const gchar * cModelName

name of the model ("gauge", "graph", etc) [mandatory].

• gint iNbValues

number of values to represent (for instance 3 for (cpu, mem, swap)) [1 by default and minimum].

• gint iMemorySize

number of values to remember over time. For instance graphs can display as much values as the icon's width [2 by default and minimum].

gdouble * pMinMaxValues

an array of pairs of (min,max) values. [optionnal, input values will be considered between 0 and 1 if NULL].

gboolean bUpdateMinMax

whether to automatically update the values' range [false by default].

gboolean bWriteValues

whether to write the values on the icon. [false by default].

• RendererRotateTheme iRotateTheme

an option to rotate applet, no, automatic or always.

• gint iLatencyTime

time needed to update to the new values. The update is smooth in OpenGL mode. [0 by default]

• CairoDataRendererFormatValueFunc format value

a function used to format the values into a string. Only useful if you make to DataRenderer write the values [optionnal, by default the values are formatted with 2 decimals].

• gpointer pFormatData

data to be passed to the format function [optionnal].

• gchar ** cEmblems

an optionnal list of emblems to draw on the overlay.

gchar ** cLabels

an optionnal list of labels to write on the overlay.

4.2.1 Detailed Description

Generic DataRenderer attributes structure. The attributes of any implementation of a DataRenderer will derive from this class.

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

· cairo-dock-data-renderer.h

4.3 CairoDataRendererInterface Struct Reference

Interface of a DataRenderer.

#include <cairo-dock-data-renderer.h>

Data Fields

· CairoDataRendererLoadFunc load

function that loads anything the DataRenderer will need. It also completes the DataRenderer structure (for instance the text zones).

• CairoDataRendererRenderFunc render

function that draws the values with cairo.

· CairoDataRendererRenderOpenGLFunc render_opengl

function that draws the values with opengl.

· CairoDataRendererReloadFunc reload

function that reloads the DataRenderer's buffers when the icon is resized.

· CairoDataRendererUnloadFunc unload

function that unload all the previously allocated buffers.

4.3.1 Detailed Description

Interface of a DataRenderer.

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

· cairo-dock-data-renderer.h

4.4 CairoDesklet Struct Reference

Definition of a Desklet, which derives from a Container.

```
#include <cairo-dock-desklet-factory.h>
```

4.4.1 Detailed Description

Definition of a Desklet, which derives from a Container.

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

· cairo-dock-desklet-factory.h

4.5 _CairoDeskletAttr Struct Reference

Configuration attributes of a Desklet.

```
#include <cairo-dock-desklet-factory.h>
```

4.5.1 Detailed Description

Configuration attributes of a Desklet.

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

· cairo-dock-desklet-factory.h

4.6 _CairoDeskletDecoration Struct Reference

Decoration of a Desklet.

```
#include <cairo-dock-desklet-factory.h>
```

4.6.1 Detailed Description

Decoration of a Desklet.

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

· cairo-dock-desklet-factory.h

4.7 _CairoDeskletRenderer Struct Reference

Definition of a Desklet's renderer.

#include <cairo-dock-desklet-factory.h>

Data Fields

CairoDeskletRenderFunc render

rendering function with libcairo.

• CairoDeskletGLRenderFunc render_opengl

rendering function with OpenGL.

• CairoDeskletConfigureRendererFunc configure

get the configuration of the renderer from a set of config attributes.

· CairoDeskletLoadRendererDataFunc load data

load the internal data of the renderer.

• CairoDeskletFreeRendererDataFunc free_data

free all internal data of the renderer.

• CairoDeskletCalculateIconsFunc calculate_icons

define the icons' size and load them.

CairoDeskletUpdateRendererDataFunc update

function called on each iteration of the rendering loop.

· CairoDeskletGLRenderFunc render_bounding_box

optionnal rendering function with OpenGL that only draws the bounding boxes of the icons (for picking).

GList * pPreDefinedConfigList

An optionnal list of preset configs.

4.7.1 Detailed Description

Definition of a Desklet's renderer.

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

· cairo-dock-desklet-factory.h

4.8 CairoDialog Struct Reference

Definition of a Dialog.

#include <cairo-dock-dialog-factory.h>

Data Fields

• GldiContainer container

container.

4.8.1 Detailed Description

Definition of a Dialog.

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

· cairo-dock-dialog-factory.h

4.9 _CairoDialogDecorator Struct Reference

Definition of a Dialog/Menu decorator. It draws the frame of the Dialog/Menu.

```
#include <cairo-dock-dialog-factory.h>
```

Data Fields

• CairoDialogSetDecorationSizeFunc set_size

defines the various margins and alignment of the dialog

CairoDialogRenderDecorationFunc render

draw the dialog's frame (outline and background)

• CairoMenuSetupFunc setup_menu

defines the GldiMenuParams of the menu (radius, alignment, arrow height)

• CairoMenuRenderFunc render_menu

draw the menu's frame (outline and background); in the end, must clip the shape of the frame on the context

• const gchar * cDisplayedName

readable name of the decorator

4.9.1 Detailed Description

Definition of a Dialog/Menu decorator. It draws the frame of the Dialog/Menu.

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

· cairo-dock-dialog-factory.h

4.10 _CairoDialogRenderer Struct Reference

Definition of a Dialog renderer. It draws the inside of the Dialog.

#include <cairo-dock-dialog-factory.h>

4.10.1 Detailed Description

Definition of a Dialog renderer. It draws the inside of the Dialog.

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

· cairo-dock-dialog-factory.h

4.11 _CairoDock Struct Reference

Definition of a Dock, which derives from a Container.

#include <cairo-dock-dock-factory.h>

Data Fields

• GldiContainer container

container.

• GList * icons

the list of icons.

• gboolean blsMainDock

Set to TRUE for the main dock (the first to be created, and the one containing the taskbar).

• gint iRefCount

number of icons pointing on the dock (0 means it is a root dock, >0 a sub-dock).

gchar * cDockName

unique name of the dock

· CairoDockVisibility iVisibility

visibility.

- gint iNumScreen
- gint iScreenReq

number of the screen requested by the user

gchar * cScreenReq

name of the screen requested by the user – TODO: not used yet, should implement saving screen names!

• gint ilconSize

icon size, as specified in the config of the dock

• gboolean bGloballconSize

whether the dock should use the global icons size parameters.

• gboolean bGlobalBg

whether the dock should use the global background parameters.

• gchar * cBgImagePath

path to an image, or NULL

• gboolean bBgImageRepeat

whether to repeat the image as a pattern, or to stretch it to fill the dock.

• GldiColor fBgColorBright

first color of the gradation

GldiColor fBgColorDark

second color of the gradation

CairoDockImageBuffer backgroundBuffer

Background image buffer of the dock.

• gdouble fFoldingFactor

(un)folding factor, between 0(unfolded) to 1(folded). It's up to the renderer on how to make use of it.

• gdouble fHideOffset

counter for auto-hide.

• gdouble fPostHideOffset

counter for the post-hiding animation for icons always visible.

· gboolean blsBelow

Whether the dock is in a popped up state or not.

· gint bHasModalWindow

TRUE if the dock has a modal window (menu, dialog, etc), that will block it.

· gboolean blsDragging

whether the user is dragging something over the dock.

gboolean bTemporaryHidden

Backup of the auto-hide state before quick-hide.

gboolean bEntranceDisabled

whether mouse can't enter into the dock.

• gboolean blsShrinkingDown

whether the dock is shrinking down.

• gboolean blsGrowingUp

whether the dock is growing up.

• gboolean blsHiding

whether the dock is hiding.

· gboolean blsShowing

whether the dock is showing.

• gboolean blconlsFlyingAway

whether an icon is being dragged away from the dock

gboolean bPreventDraggingIcons

whether icons in the dock can be dragged with the mouse (inside and outside of the dock).

• gdouble iMaxIconHeight

maximum height of the icons.

gdouble fFlatDockWidth

width of the dock, only taking into account an alignment of the icons.

• guint iSidMoveResize

Source ID for window resizing.

· guint iSidUnhideDelayed

Source ID for window popping down to the bottom layer.

• guint iSidLeaveDemand

Source ID of the timer that delays the "leave" event.

· guint iSidUpdateWMIcons

Source ID for pending update of WM icons geometry.

• guint iSidHideBack

Source ID for hiding back the dock.

guint iSidLoadBg

Source ID for loading the background.

• guint iSidDestroyEmptyDock

Source ID to destroy an empty main dock.

• guint iSidTestMouseOutside

Source ID for shrinking down the dock after a mouse event.

· guint iSidUpdateDockSize

Source ID for updating the dock's size and icons layout.

• CairoDockRenderer * pRenderer

current renderer, never NULL.

gpointer pRendererData

data that can be used by the renderer.

• gboolean bCanDrop

Set to TRUE by the renderer if one can drop between 2 icons.

CairoDockMousePositionType iMousePositionType

set by the view to say if the mouse is currently on icons, on the egde, or outside of icons.

· gint iMinDockWidth

width of the dock at rest.

• gint iMinDockHeight

height of the dock at rest.

· gint iMaxDockWidth

maximum width of the dock.

· gint iMaxDockHeight

maximum height of the dock.

· gint iDecorationsWidth

width of background decorations, set by the renderer.

• gint iDecorationsHeight

height of background decorations, set by the renderer.

gdouble fMagnitudeMax

maximal magnitude of the zoom, between 0 and 1.

· gint iActiveWidth

width of the active zone of the dock.

· gint iActiveHeight

height of the active zone of the dock.

CairoDockInputState iInputState

state of the input shape (active, at rest, hidden).

• cairo_region_t * pShapeBitmap

input shape of the window when the dock is at rest.

 $\bullet \ \, \text{cairo_region_t} * \textbf{pHiddenShapeBitmap}$

input shape of the window when the dock is hidden.

 $\bullet \ \, \text{cairo_region_t} * \textbf{pActiveShapeBitmap}$

input shape of the window when the dock is active (NULL to cover all dock).

• gint iScaleFactor

last buffer scale factor set by us

gpointer pVisibilityData

any data necessary for the dock visibility backend to work - managed by the backend

4.11.1 Detailed Description

Definition of a Dock, which derives from a Container.

4.11.2 Field Documentation

4.11.2.1 iNumScreen

gint _CairoDock::iNumScreen

number of the screen the dock is actually placed on (between 0 and g_desktopGeometry.iNbScreens - 1) might differ from iScreenReq if the requested screen is not available; filled out when updating the dock's position

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

· cairo-dock-dock-factory.h

4.12 CairoDockDesktopEnvBackend Struct Reference

Definition of the Desktop Environment backend.

```
#include <cairo-dock-file-manager.h>
```

4.12.1 Detailed Description

Definition of the Desktop Environment backend.

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

· cairo-dock-file-manager.h

4.13 _CairoDockGLConfig Struct Reference

This strucure summarizes the available OpenGL configuration on the system.

```
#include <cairo-dock-opengl.h>
```

4.13.1 Detailed Description

This strucure summarizes the available OpenGL configuration on the system.

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

· cairo-dock-opengl.h

4.14 _CairoDockGLFont Struct Reference

Structure used to load a font for OpenGL text rendering.

```
#include <cairo-dock-opengl-font.h>
```

4.14.1 Detailed Description

Structure used to load a font for OpenGL text rendering.

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

· cairo-dock-opengl-font.h

4.15 CairoDockGLPath Struct Reference

Definition of a CairoDockGLPath.

#include <cairo-dock-opengl-path.h>

4.15.1 Detailed Description

Definition of a CairoDockGLPath.

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

• cairo-dock-opengl-path.h

4.16 CairoDockGroupKeyWidget Struct Reference

Definition of a widget corresponding to a given (group;key) pair.

```
#include <cairo-dock-gui-factory.h>
```

4.16.1 Detailed Description

Definition of a widget corresponding to a given (group;key) pair.

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

· cairo-dock-gui-factory.h

4.17 _CairoDockGuiBackend Struct Reference

Definition of the GUI interface for modules.

```
#include <cairo-dock-gui-manager.h>
```

Data Fields

- void(* set_status_message_on_gui)(const gchar *cMessage)
 display a message on the GUI.
- void(* reload_current_widget)(GldiModuleInstance *pModuleInstance, int iShowPage)

Reload the current config window from the conf file. iShowPage is the page that should be displayed in case the module has several pages, -1 means to keep the current page.

• CairoDockGroupKeyWidget *(* **get_widget_from_name**)(GldiModuleInstance *pModuleInstance, const gchar *cGroupName, const gchar *cKeyName)

retrieve the widgets in the current module window, corresponding to the (group,key) pair in its conf file.

4.17.1 Detailed Description

Definition of the GUI interface for modules.

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

· cairo-dock-gui-manager.h

4.18 _CairoDockHidingEffect Struct Reference

Definition of a Hiding Effect backend (used to provide an animation when the docks hides/shows itself).

```
#include <cairo-dock-animations.h>
```

Data Fields

const gchar * cDisplayedName

translated name of the effect

• gboolean bCanDisplayHiddenDock

whether the backend can display the dock even when it's hidden

void(* pre_render)(CairoDock *pDock, double fOffset, cairo_t *pCairoContext)

function called before the icons are drawn (cairo)

void(* pre_render_opengl)(CairoDock *pDock, double fOffset)

function called before the icons are drawn (opengl)

void(* post_render)(CairoDock *pDock, double fOffset, cairo_t *pCairoContext)

function called afer the icons are drawn (cairo)

void(* post_render_opengl)(CairoDock *pDock, double fOffset)

function called afer the icons are drawn (opengl)

void(* init)(CairoDock *pDock)

function called when the animation is started.

4.18.1 Detailed Description

Definition of a Hiding Effect backend (used to provide an animation when the docks hides/shows itself).

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

· cairo-dock-animations.h

4.19 _CairoDockImageBuffer Struct Reference

Definition of an Image Buffer. It provides an unified interface for a cairo/opengl image buffer.

```
#include <cairo-dock-image-buffer.h>
```

4.19.1 Detailed Description

Definition of an Image Buffer. It provides an unified interface for a cairo/opengl image buffer.

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

· cairo-dock-image-buffer.h

4.20 _CairoDockPackage Struct Reference

Definition of a generic package.

#include <cairo-dock-packages.h>

Data Fields

• gchar * cPackagePath

complete path of the package.

· gdouble fSize

size in Mo

gchar * cAuthor

author(s)

• gchar * cDisplayedName

name of the package

CairoDockPackageType iType

type of package : installed, user, distant.

· gint iRating

rating of the package.

· gint iSobriety

sobriety/simplicity of the package.

• gchar * cHint

hint of the package, for instance "sound" or "battery" for a gauge, "internet" or "desktop" for a third-party applet.

• gint iCreationDate

date of creation of the package.

• gint iLastModifDate

date of latest changes in the package.

4.20.1 Detailed Description

Definition of a generic package.

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

· cairo-dock-packages.h

4.21 CairoDockRenderer Struct Reference

Dock's renderer, also known as 'view'.

#include <cairo-dock-dock-factory.h>

Data Fields

• CairoDockComputeSizeFunc compute_size

function that computes the sizes of a dock.

CairoDockCalculateIconsFunc calculate icons

function that computes all the icons' parameters.

· CairoDockRenderFunc render

rendering function (cairo)

· CairoDockRenderOptimizedFunc render_optimized

optimized rendering function (cairo) that only redraw a part of the dock.

CairoDockGLRenderFunc render_opengl

rendering function (OpenGL, optionnal).

CairoDockSetSubDockPositionFunc set subdock position

function that computes the position of the dock when it's a sub-dock.

· CairoDockRenderFreeDataFunc free data

function called when the renderer is unset from the dock.

CairoDockSetInputShapeFunc update_input_shape

function called when the input zones are defined.

CairoDockSetIconSizeFunc set_icon_size

function called to define the size of an icon, or NULL to let the container handles that.

• gboolean bUseStencil

TRUE if the view uses the OpenGL stencil buffer.

• gboolean **bUseReflect**

TRUE is the view uses reflects.

• const gchar * cDisplayedName

name displayed in the GUI (translated).

 $\bullet \ \ gchar * \textbf{cReadmeFilePath}$

path to a readme file that gives a short description of the view.

• gchar * cPreviewFilePath

path to a preview image.

4.21.1 Detailed Description

Dock's renderer, also known as 'view'.

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

· cairo-dock-dock-factory.h

4.22 _CairoDockTransition Struct Reference

Transitions are an easy way to set an animation on an Icon to make it change from a state to another.

#include <cairo-dock-animations.h>

Data Fields

CairoDockTransitionRenderFunc render

the cairo rendering function.

CairoDockTransitionGLRenderFunc render_opengl

the openGL rendering function (can be NULL, in which case the texture mapping from the cairo drawing is done automatically).

· gpointer pUserData

data passed to the rendering functions.

• GFreeFunc pFreeUserDataFunc

function called to destroy the data when the transition is deleted.

• gboolean bFastPace

TRUE <=> the transition will be in the fast loop (high frequency refresh).

• gboolean bRemoveWhenFinished

TRUE <=> the transition will be destroyed and removed from the icon when finished.

· gint iDuration

duration if the transition, in ms. Can be 0 for an endless transition.

gint iElapsedTime

elapsed time since the beginning of the transition, in ms.

· gint iCount

number of setps since the beginning of the transition, in ms.

GldiContainer * pContainer

Container of the Icon.

4.22.1 Detailed Description

Transitions are an easy way to set an animation on an Icon to make it change from a state to another.

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

· cairo-dock-animations.h

4.23 _CairoGraphAttribute Struct Reference

Attributes of a Graph.

#include <cairo-dock-graph.h>

Data Fields

• CairoDataRendererAttribute rendererAttribute

General attributes of any DataRenderer.

CairoDockTypeGraph iType

type of graph

gdouble * fHighColor

color of the high values. it's a table of nb_values triplets, each of them representing an rgb color.

• gdouble * fLowColor

color of the low values. same as fHighColor.

• gdouble fBackGroundColor [4]

color of the background.

gboolean bMixGraphs

TRUE to draw all the values on the same graph.

4.23.1 Detailed Description

Attributes of a Graph.

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

· cairo-dock-graph.h

4.24 CairolconContainerRenderer Struct Reference

Definition of an Icon container (= an icon holding a sub-dock) renderer.

```
#include <cairo-dock-icon-factory.h>
```

4.24.1 Detailed Description

Definition of an Icon container (= an icon holding a sub-dock) renderer.

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

· cairo-dock-icon-factory.h

4.25 _CairoOverlay Struct Reference

Definition of an Icon Overlay.

```
#include <cairo-dock-overlay.h>
```

Data Fields

GldiObject object

object

• CairoDockImageBuffer image

image buffer

• CairoOverlayPosition iPosition

position on the icon

· gdouble fScale

scale at which to draw the overlay, relatively to the icon (0.5 by default, 1 will cover the whole icon, 0 means to draw at the actual buffer size).

• Icon * plcon

icon it belongs to.

• gpointer data

data used to identify an overlay

4.25.1 Detailed Description

Definition of an Icon Overlay.

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

· cairo-dock-overlay.h

4.26 CairoParticle Struct Reference

A particle of a particle system.

#include <cairo-dock-particle-system.h>

Data Fields

· GLfloat x

horizontal position, in fraction of the particle system's width, and relatively to the center of the particle system. So it is comprised between -1 and 1.

· GLfloat y

vertical position, in fraction of the particle system's height, and relatively to the bottom of the particle system. So it is comprised between 0 and 1.

GLfloat z

depth of the particle, negative to be "behind". 0 means it is at the same depth as icons.

GLfloat vx

horizontal speed

GLfloat vy

vertical speed

GLfloat fWidth

size

· GLfloat color [4]

color r,g,b,a

· GLfloat fOscillation

phase of the oscillations.

• GLfloat fOmega

oscillation variation speed.

· GLfloat fSizeFactor

current size factor

• GLfloat fResizeSpeed

size variation speed.

• gint iLife

current life time, decreased by 1 at each step.

• gint ilnitialLife

total life time.

4.26.1 Detailed Description

A particle of a particle system.

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

· cairo-dock-particle-system.h

4.27 CairoParticleSystem Struct Reference

A particle system.

#include <cairo-dock-particle-system.h>

4.27.1 Detailed Description

A particle system.

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

· cairo-dock-particle-system.h

4.28 _CairoProgressBarAttribute Struct Reference

Attributes of a PgrogressBar.

#include <cairo-dock-progressbar.h>

Data Fields

• CairoDataRendererAttribute rendererAttribute

General attributes of any DataRenderer.

 $\bullet \ \ gchar* \ \textbf{clmageGradation}$

image or NULL

• gdouble * fColorGradation

color gradation of the bar (an array of 8 doubles, representing 2 RGBA values) or NULL

• gboolean **bUseCustomPosition**

TRUE to define a custom position (by default it is placed at the middle bottom)

CairoOverlayPosition iCustomPosition

custom position

• gboolean blnverted

invert default colors

4.28.1 Detailed Description

Attributes of a PgrogressBar.

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

· cairo-dock-progressbar.h

4.29 GldiChildProcessManagerBackend Struct Reference

```
#include <cairo-dock-utils.h>
```

Data Fields

• void(* spawn_app)(const gchar *const *args, const gchar *id, const gchar *desc, const gchar *const *env, const gchar *working_dir)

4.29.1 Detailed Description

Simple "backend" for managing processes launched by us. Mainly needed to put newly launched apps in their own systemd scope / cgroup.

4.29.2 Field Documentation

4.29.2.1 spawn_app

void(* _GldiChildProcessManagerBackend::spawn_app) (const gchar *const *args, const gchar *id,
const gchar *desc, const gchar *const *env, const gchar *working_dir)

Launch a new app based on the given argument vector, performing any system-specific setup necessary.

Parameters

args	argument vector to use
id	a non-NULL identifier for the newly launched process, containing only "safe" characters (currently this means only characters valid in systemd unit names: ASCII letters, digits, ":", "-", "_", ".", and "\"); does not need to be unique @param desc a non-NULL description suitable to display to the user @param env an optional vector of environment variables to set for the launched process; each element should be in the format of "VAR=value"
working_dir	optionally a working directory to set for the newly launched process

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

· cairo-dock-utils.h

4.30 GldiContainer Struct Reference

Definition of a Container, whom derive Dock, Desklet, Dialog and FlyingContainer.

#include <cairo-dock-container.h>

Data Fields

GldiObject object

object.

gpointer pDataSlot [CAIRO_DOCK_NB_DATA_SLOT]

External data.

GtkWidget * pWidget

window of the container.

• gint iWidth

size of the container.

gint iWindowPositionX

position of the container.

· gboolean blnside

TURE is the mouse is inside the container (including the possible sub-widgets).

CairoDockTypeHorizontality blsHorizontal

TRUE if the container is horizontal, FALSE if vertical.

• gboolean bDirectionUp

TRUE if the container is oriented upwards, FALSE if downwards.

· guint iSidGLAnimation

Source ID of the animation loop.

gint iAnimationDeltaT

interval of time between 2 animation steps.

gint iMouseX

X position of the mouse in the container's system of reference.

· gint iMouseY

Y position of the mouse in the container's system of reference.

• gdouble fSmoothScrollAccum

accumulate smooth scroll events to emulate fixed steps

• guint iLastScrollTime

time of last smooth scroll event received (to filter potential duplicates)

gdouble fRatio

zoom applied to the container's elements.

• gboolean bUseReflect

TRUE if the container has a reflection power.

void * glContext

OpenGL context (either a GLXContext or EGLContext – both are typedef for a pointer).

void * eglSurface

EGL surface (not needed for GLX).

• gboolean bPerspectiveView

whether the GL context is an ortho or a perspective view.

• gboolean bKeepSlowAnimation

TRUE if a slow animation is running.

· gint iAnimationStep

counter for the animation loop.

void * pMoveToRect

data for the gldi_container_move_to_rect() callback if needed

void * eglwindow

a wl_egl_window (needed on Wayland + EGL)

4.30.1 Detailed Description

Definition of a Container, whom derive Dock, Desklet, Dialog and FlyingContainer.

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

· cairo-dock-container.h

4.31 GldiContainerManagerBackend Struct Reference

Definition of the Container backend. It defines some operations that should be, but are not, provided by GTK.

```
#include <cairo-dock-container.h>
```

Data Fields

- void(* init_layer)(GldiContainer *pContainer)
- gboolean(* is_wayland)()

return if running on Wayland

- void(* set_keep_below)(GldiContainer *pContainer, gboolean bKeepBelow)
- void(* move resize dock)(CairoDock *pDock)
- $\bullet \ \ \mathsf{void}(*\ \textbf{set_input_shape}\) (\mathsf{GldiContainer}\ *\mathsf{pContainer}, \ \mathsf{cairo_region_t}\ *\mathsf{pShape}) \\$

set input shape on a window (Wayland + EGL needs special treatment)

void(* set_monitor)(GldiContainer *pContainer, int iNumScreen)

set the monitor (screen) this container should appear - required on Wayland

- void(* update_polling_screen_edge)()
- gboolean(* can_reserve_space)(int iNumScreen, gboolean bDirectionUp, gboolean bIsHorizontal)

 determines if it is possible to reserve space for a dock on a given screen with a given orientation; returns TRUE by
- void(* update_mouse_position)(GldiContainer *pContainer)

update the mouse position based on global coordinates - only supported on X11

- gboolean(* dock_handle_leave)(CairoDock *pDock, GdkEventCrossing *pEvent)
- void(* dock_check_if_mouse_inside_linear)(CairoDock *pDock)
- void(* adjust_aimed_point)(const lcon *plcon, GtkWidget *pWidget, int w, int h, int iMarginPosition, gdouble fAlign, int *iAimedX, int *iAimedY)

4.31.1 Detailed Description

Definition of the Container backend. It defines some operations that should be, but are not, provided by GTK.

4.31.2 Field Documentation

4.31.2.1 init_layer

```
void(* _GldiContainerManagerBackend::init_layer) (GldiContainer *pContainer)
```

extra functionality for Wayland / gtk_layer_shell Initialize layer-shell additions - need to be called before mapping window first

4.31.2.2 set_keep_below

 $\verb|void|(* _GldiContainerManagerBackend::set_keep_below|) (GldiContainer *pContainer, gboolean b \leftarrow KeepBelow)$

Set to keep the container's GtkWindow below or above other windows. On X11, this calls gtk_window_set_keep ← _below(); on Wayland, this tries to adjust the layer the window appears on.

4.31.2.3 move_resize_dock

```
void(* _GldiContainerManagerBackend::move_resize_dock) (CairoDock *pDock)
```

Move and resize a root dock. On X11, this uses gdk_window_move_resize (). On Wayland, this uses gdk_window ← _resize () and layer-shell anchors based on the dock's orientation.

4.31.2.4 update polling screen edge

```
void(* _GldiContainerManagerBackend::update_polling_screen_edge) ()
```

recall hidden dock if the mouse is close to a screen edge update if we need to be looking at the screen edges (for any edge necessary)

4.31.2.5 dock_handle_leave

gboolean(* _GldiContainerManagerBackend::dock_handle_leave) (CairoDock *pDock, GdkEventCrossing
*pEvent)

backend-specific handling of leave / enter events on a dock on Wayland, these update iMousePositionType (this is the only place we can do this) the leave event handler should return if the mouse is really outside the dock

4.31.2.6 dock_check_if_mouse_inside_linear

```
void(* _GldiContainerManagerBackend::dock_check_if_mouse_inside_linear) (CairoDock *pDock)
```

check if the mouse is inside the dock (basic case) and update iMousePositionType only supported on X11

4.31.2.7 adjust_aimed_point

```
\label{local_point} void (* \_GldiContainerManagerBackend::adjust\_aimed\_point) (const \ Icon *pIcon, \ GtkWidget *p \hookleftarrow Widget, int w, int h, int iMarginPosition, gdouble fAlign, int *iAimedX, int *iAimedY) \\
```

adjust the aimed point (pointed to by a subdock, menu or dialog) AimedX and AimedY is already set by the caller to a relative position, only corrections need to be done here

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

· cairo-dock-container.h

4.32 GldiDesktopBackground Struct Reference

Definition of a Desktop Background Buffer. It has a reference count so that it can be shared across all the lib.

```
#include <cairo-dock-desktop-manager.h>
```

4.32.1 Detailed Description

Definition of a Desktop Background Buffer. It has a reference count so that it can be shared across all the lib.

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

· cairo-dock-desktop-manager.h

4.33 _GldiDesktopManagerBackend Struct Reference

Definition of the Desktop Manager backend.

```
#include <cairo-dock-desktop-manager.h>
```

4.33.1 Detailed Description

Definition of the Desktop Manager backend.

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

· cairo-dock-desktop-manager.h

4.34 GldiManager Struct Reference

Definition of a Manager.

```
#include <cairo-dock-manager.h>
```

Data Fields

GldiObject object

object

· GldiManagerInitFunc init

function called once and for all at the init of the core.

GldiManagerLoadFunc load

function called when loading the current theme, after getting the config

• GldiManagerUnloadFunc unload

function called when unloading the current theme, before resetting the config.

• GldiManagerReloadFunc reload

function called when reloading a part of the current theme.

• GldiManagerGetConfigFunc get_config

function called when getting the config of the current theme, or a part of it.

GldiManagerResetConfigFunc reset_config

function called when resetting the current theme, or a part of it.

4.34.1 Detailed Description

Definition of a Manager.

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

· cairo-dock-manager.h

4.35 GldiModule Struct Reference

Definition of an external module.

#include <cairo-dock-module-manager.h>

Data Fields

GldiObject object

object

• GldiModuleInterface * pInterface

interface of the module.

GldiVisitCard * pVisitCard

visit card of the module.

• gchar * cConfFilePath

conf file of the module.

• gpointer handle

if the module interface is provided by a dynamic library, handle to this library.

• GList * plnstancesList

list of instances of the module.

4.35.1 Detailed Description

Definition of an external module.

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

· cairo-dock-module-manager.h

4.36 _GldiModuleInstance Struct Reference

Definition of an instance of a module. A module can be instanciated several times.

#include <cairo-dock-module-instance-manager.h>

Data Fields

GldiObject object

object

• GldiModule * pModule

the module this instance represents.

• gchar * cConfFilePath

conf file of the instance.

· gboolean bCanDetach

TRUE if the instance can be detached from docks (desklet mode).

Icon * plcon

the icon holding the instance.

GldiContainer * pContainer

container of the icon.

CairoDock * pDock

this field repeats the 'pContainer' field if the container is a dock, and is NULL otherwise.

CairoDesklet * pDesklet

this field repeats the 'pContainer' field if the container is a desklet, and is NULL otherwise.

cairo t * pDrawContext

a drawing context on the icon.

· gint iSlotID

a unique ID to insert external data on icons and containers.

· gpointer pConfig

pointer to a structure containing the config parameters of the applet.

· gpointer pData

pointer to a structure containing the data of the applet.

• union {

} uActive

indicator whether the module instance has already been activated (init function has been called)

4.36.1 Detailed Description

Definition of an instance of a module. A module can be instanciated several times.

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

· cairo-dock-module-instance-manager.h

4.37 _GldiModuleInterface Struct Reference

Definition of the interface of a module.

#include <cairo-dock-module-manager.h>

Data Fields

- void(* initModule)(GldiModuleInstance *pInstance, GKeyFile *pKeyFile)
- void(* stopModule)(GldiModuleInstance *pInstance)
- gboolean(* read_conf_file)(GldiModuleInstance *pInstance, GKeyFile *pKeyFile)
- void(* reset_config_)(GldiModuleInstance *pInstance)
- void(* reset data)(GldiModuleInstance *pInstance)
- void(* load_custom_widget)(GldiModuleInstance *pInstance, GKeyFile *pKeyFile, GSList *pWidgetList)

4.37.1 Detailed Description

Definition of the interface of a module.

4.37.2 Field Documentation

4.37.2.1 initModule

```
void(* _GldiModuleInterface::initModule) (GldiModuleInstance *pInstance, GKeyFile *pKeyFile)
```

Function called when the module is activated (e.g. enabled by the user or when loading a theme); normal functionality should be set up here (e.g. signals / callbacks). Note: pKeyFile should NOT be used as it can be NULL (this is currently the case for auto-loaded modules). All config should be read in read_conf_file () or reloadModule () below. -> CD_APPLET_INIT_BEGIN in standard applets

4.37.2.2 stopModule

```
void(* _GldiModuleInterface::stopModule) (GldiModuleInstance *pInstance)
```

Function called when a module is deactivated (e.g. disabled by the user or when changing a theme); this should stop all functions of the module and also free all resources. -> CD_APPLET_STOP_BEGIN in standard applets

4.37.2.3 reloadModule

```
gboolean(* _GldiModuleInterface::reloadModule) (GldiModuleInstance *pInstance, GldiContainer
*pOldContainer, GKeyFile *pKeyFile)
```

Function called when important configuration has changed (either for the module or for the dock that could affect this module, e.g. icon theme or icon size). pKeyFile != NULL <=> the configuration of this module has changed (use CD_APPLET_MY_CONFIG_CHANGED) -> CD_APPLET_RELOAD_BEGIN in standard applets

4.37.2.4 read_conf_file

```
gboolean(* _GldiModuleInterface::read_conf_file) (GldiModuleInstance *pInstance, GKeyFile *p←
KeyFile)
```

Function called to read (all of) a module's config before it is initialized. Normally, this should only read values from the supplied file and store them to be used later (ideally in the instance provided). Accessing other internals (e.g. rendering interface elements based on the config) is not recommended. For auto-loaded modules, this is called before any dock (and thus rendering context) is created. -> CD_APPLET_GET_CONFIG_BEGIN in standard applets

4.37.2.5 reset_config

```
void(* _GldiModuleInterface::reset_config) (GldiModuleInstance *pInstance)
```

Function called after the module has been stopped and should free any data (e.g. strings) in the module's configuration. -> CD_APPLET_RESET_CONFIG_BEGIN in standard applets

4.37.2.6 reset data

```
void(* _GldiModuleInterface::reset_data) (GldiModuleInstance *pInstance)
```

Function called after to module has been stopped to free any data used by it. Note: there is not much difference between using this and the stopModule () function above. -> CD_APPLET_RESET_DATA_BEGIN in standard applets

4.37.2.7 load custom widget

```
\label{local_custom_widget} $$ void(* \_GldiModuleInstance *pInstance, GKeyFile *p \leftarrow KeyFile, GSList *pWidgetList) $$
```

Functions used for defining custom widgets for configuring the module.

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

· cairo-dock-module-manager.h

4.38 _GldiObject Struct Reference

Definition of an Object.

```
#include <cairo-dock-object.h>
```

4.38.1 Detailed Description

Definition of an Object.

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

· cairo-dock-object.h

4.39 _GldiObjectManager Struct Reference

Definition of an ObjectManager.

```
#include <cairo-dock-object.h>
```

4.39.1 Detailed Description

Definition of an ObjectManager.

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

· cairo-dock-object.h

4.40 GldiTask Struct Reference

Definition of a periodic and/or asynchronous Task.

```
#include <cairo-dock-task.h>
```

Data Fields

· guint iPeriod

interval of time in seconds, 0 if the Task is to run once. Set when creating the task; can change >0 values later, but cannot change between 0 and >0.

gpointer pSharedMemory

structure passed as parameter of the 'get_data' and 'update' functions. Must not be accessed outside of these 2 functions!

• gboolean bDiscard

TRUE when the task has been discarded.

4.40.1 Detailed Description

Definition of a periodic and/or asynchronous Task.

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

· cairo-dock-task.h

4.41 _GldiTextDescription Struct Reference

Description of the rendering of a text.

```
#include <cairo-dock-style-facility.h>
```

Data Fields

• gchar * cFont

font.

• PangoFontDescription * fd

pango font

· gint iSize

size in pixels

gboolean bNoDecorations

whether to draw the decorations (frame and outline) or not

• gboolean bUseDefaultColors

whether to use the default colors or the colors defined below

• GldiColor fColorStart

text color

• GldiColor fBackgroundColor

background color

· GldiColor fLineColor

outline color

· gboolean bOutlined

TRUE to stroke the outline of the characters (in black).

· gint iMargin

margin around the text, it is also the dimension of the frame if available.

gboolean bUseMarkup

whether to use Pango markups or not (markups are html-like marks, like ...; using markups force you to escape some characters like "&" -> "&")

· gdouble fMaxRelativeWidth

maximum width allowed, in ratio of the screen's width. Carriage returns will be inserted if necessary. 0 means no limit

4.41.1 Detailed Description

Description of the rendering of a text.

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

· cairo-dock-style-facility.h

4.42 _GldiVisitCard Struct Reference

Definition of the visit card of a module. Contains everything that is statically defined for a module.

```
#include <cairo-dock-module-manager.h>
```

4.42.1 Detailed Description

Definition of the visit card of a module. Contains everything that is statically defined for a module.

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

· cairo-dock-module-manager.h

4.43 GldiWindowActor Struct Reference

Definition of a window actor.

#include <cairo-dock-windows-manager.h>

Data Fields

• gboolean **blsHidden**not used yet...

4.43.1 Detailed Description

Definition of a window actor.

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

· cairo-dock-windows-manager.h

4.44 _GldiWindowManagerBackend Struct Reference

Definition of the Windows Manager backend.

#include <cairo-dock-windows-manager.h>

4.44.1 Detailed Description

Definition of the Windows Manager backend.

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

· cairo-dock-windows-manager.h

4.45 _lcon Struct Reference

Definition of an Icon.

#include <cairo-dock-icon-factory.h>

Data Fields

GldiObject object

object

CairoDocklconGroup iGroup

group of the icon.

· IconInterface iface

interface

· gchar * cName

Name of the icon.

gchar * cQuickInfo

Short info displayed on the icon (few characters).

• gchar * cFileName

name or path of an image displayed on the icon.

• gchar * cClass

Class of application the icon will be bound to.

• gchar * cParentDockName

name of the dock the icon belongs to (NULL means it's not currently inside a dock).

CairoDock * pSubDock

Sub-dock the icon is pointing to.

· gdouble fOrder

Order of the icon amongst the other icons of its group.

· gboolean bStatic

a hint to indicate the icon should be kept static (no animation like bouncing).

• gboolean bAlwaysVisible

a flag that allows the icon to be always visible, even when the dock is hidden.

gboolean bPointed

Whether the icon is currently pointed or not.

4.45.1 Detailed Description

Definition of an Icon.

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

· cairo-dock-icon-factory.h

4.46 _lconInterface Struct Reference

Icon's interface.

#include <cairo-dock-icon-factory.h>

Data Fields

void(* load_image)(lcon *icon)

function that loads the icon surface (and optionnally texture).

void(* action_on_drag_hover)(lcon *icon)

function called when the user drag something over the icon for more than 500ms.

4.46.1 Detailed Description

Icon's interface.

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

· cairo-dock-icon-factory.h

4.47 GldiAppInfo Struct Reference

4.47.1 Detailed Description

for launching apps, wrapping a GAppInfo. This is needed as unfortunately GDesktopAppInfo does not provide all the functionality we need.

GldiAppInfo derives from GlidObject, so you should use gldi_object_ref () / gldi_object_unref () to manage its lifecycle.

Note: currently, the class-manager automatically creates a GldiAppInfo for all apps registered with it, filling out the corresponding icon's pAppInfo member as it is created, so there is no need to create this object manually. A constructor is provided only to create a GldiAppInfo wrapping a custom commnad to run.

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

• cairo-dock-class-manager.h

Chapter 5

File Documentation

5.1 cairo-dock-animations.h File Reference

Data Structures

- struct _CairoDockTransition
 - Transitions are an easy way to set an animation on an Icon to make it change from a state to another.
- struct _CairoDockHidingEffect

Definition of a Hiding Effect backend (used to provide an animation when the docks hides/shows itself).

Macros

- #define cairo_dock_container_is_animating(pContainer)
- #define cairo_dock_animation_will_be_visible(pDock)
- #define gldi_icon_stop_animation(plcon)
- #define cairo_dock_get_animation_delta_t(pContainer)
- #define cairo_dock_get_slow_animation_delta_t(pContainer)
- #define cairo_dock_has_transition(plcon)
- #define cairo_dock_get_transition_count(plcon)
- #define cairo_dock_get_transition_elapsed_time(plcon)
- #define cairo_dock_get_transition_fraction(plcon)

Typedefs

- typedef gboolean(* CairoDockTransitionRenderFunc) (Icon *pIcon, gpointer pUserData) callback to render the icon with libcairo at each step of the Transition.
- typedef gboolean(* CairoDockTransitionGLRenderFunc) (Icon *plcon, gpointer pUserData) callback to render the icon with OpenGL at each step of the Transition.

Functions

- void cairo_dock_pop_up (CairoDock *pDock)
- void cairo_dock_pop_down (CairoDock *pDock)
- void cairo dock launch animation (GldiContainer *pContainer)
- void gldi_icon_start_animation (Icon *icon)
- void gldi icon request animation (Icon *pIcon, const gchar *cAnimation, int iNbRounds)
- void gldi icon request attention (Icon *plcon, const gchar *cAnimation, int iNbRounds)
- void gldi_icon_stop_attention (lcon *plcon)
- void cairo dock trigger icon removal from dock (Icon *plcon)
- void cairo_dock_set_transition_on_icon (Icon *pIcon, GldiContainer *pContainer, CairoDockTransitionRenderFunc render_step_cairo, CairoDockTransitionGLRenderFunc render_step_opengl, gboolean bFastPace, gint i
 —
 Duration, gboolean bRemoveWhenFinished, gpointer pUserData, GFreeFunc pFreeUserDataFunc)
- void cairo_dock_remove_transition_on_icon (lcon *plcon)

5.1.1 Detailed Description

This class handles the icons and containers animations. Each container has a rendering loop. An iteration of this loop is separated in 2 phases: the update of each element of the container and of the container itself, and the redraw of each element and of the container itself. The loop has 2 possible frequencies: fast (\sim 33Hz) and slow (\sim 10Hz), to optimize the CPU load according to the needs of the animation. To be called on each iteration of the loop, you register to the CAIRO_DOCK_UPDATE_X or CAIRO_DOCK_UPDATE_X_SLOW, where X is either ICON, DOCK, DESKLET, DIALOG or FLYING_CONTAINER. If you need to draw things directly on the container, you register to CAIRO_DOCK_RENDER_X, where X is either ICON, DOCK, DESKLET, DIALOG or FLYING_CONTAINER.

5.1.2 Macro Definition Documentation

5.1.2.1 cairo_dock_container_is_animating

Say if a container is currently animated.

Parameters

pContainer	a Container
-	

5.1.2.2 cairo_dock_animation_will_be_visible

Say if it's usefull to launch an animation on a Dock (indeed, it's useless to launch it if it will be invisible).

pDock	the Dock to animate.

5.1.2.3 gldi_icon_stop_animation

```
\begin{tabular}{ll} \# define & gldi\_icon\_stop\_animation ( \\ & pIcon \end{tabular} ) \end{tabular}
```

Stop any animation on an Icon, except the disappearance/appearance animation.

Parameters

```
plcon the icon
```

5.1.2.4 cairo_dock_get_animation_delta_t

Get the interval of time between 2 iterations of the fast loop (in ms).

Parameters

pContainer	the container.
------------	----------------

5.1.2.5 cairo_dock_get_slow_animation_delta_t

Get the interval of time between 2 iterations of the slow loop (in ms).

Parameters

```
pContainer the container.
```

5.1.2.6 cairo_dock_has_transition

```
\#define cairo_dock_has_transition( pIcon)
```

Say if an Icon has a Transition.

plcon	the icon.

Returns

TRUE if the icon has a Transition.

5.1.2.7 cairo_dock_get_transition_count

```
\begin{tabular}{ll} \# define & cairo\_dock\_get\_transition\_count ( \\ & pIcon \end{tabular} ) \end{tabular}
```

Get the the elpased number of steps since the beginning of the transition.

Parameters

plcon	the icon.

Returns

the elpased number of steps.

5.1.2.8 cairo_dock_get_transition_elapsed_time

Get the elapsed time (in ms) since the beginning of the transition.

Parameters

plcon	the icon.
-------	-----------

Returns

the elapsed time.

5.1.2.9 cairo_dock_get_transition_fraction

```
\begin{tabular}{ll} \# define & cairo\_dock\_get\_transition\_fraction ( \\ & pIcon \end{tabular} ) \end{tabular}
```

Get the percentage of the elapsed time (between 0 and 1) since the beginning of the transition, if the transition has a fixed duration (otherwise 0).

plcon	the icon.

Returns

the elapsed time in [0,1].

5.1.3 Function Documentation

5.1.3.1 cairo_dock_pop_up()

Pop up a Dock above other windows, if it is in mode "keep below other windows"; otherwise do nothing.

Parameters

```
pDock the dock.
```

5.1.3.2 cairo_dock_pop_down()

```
void cairo_dock_pop_down ( {\tt CairoDock} \ * \ pDock \ )
```

Pop down a Dock below other windows, if it is in mode "keep below other windows"; otherwise do nothing.

Parameters

```
pDock the dock.
```

5.1.3.3 cairo_dock_launch_animation()

Launch the animation of a Container.

Parameters

pContainer the container to animate.

5.1.3.4 gldi_icon_start_animation()

```
void gldi_icon_start_animation ( Icon * icon )
```

Start the animation of an Icon. Do nothing if the icon is at rest or if the animation won't be visible.

Parameters

icon	the icon to animate.
------	----------------------

5.1.3.5 gldi_icon_request_animation()

Launch a given animation on an Icon. Do nothing if the icon will not be animated or if the animation doesn't exist.

Parameters

plcon	the icon to animate.	
cAnimation	name of the animation.	
iNbRounds	number of rounds the animation will be played.	

5.1.3.6 gldi_icon_request_attention()

Launch an animation that will draw the user's attention (ie, the icon will be visible even if the dock is hidden or even if it's in a sub-dock).

Parameters

plcon	the icon
cAnimation	an animation name, or NULL or "default" to use the default attention animation
iNbRounds	number of rounds, or <= 0 for an endles animation

5.1.3.7 gldi_icon_stop_attention()

Stop the icon from drawing the attention. If the icon is not drawing the attention, do nothing.

plcon	the icon

5.1.3.8 cairo_dock_trigger_icon_removal_from_dock()

```
void cairo_dock_trigger_icon_removal_from_dock ( {\tt Icon} \ *\ pIcon\ )
```

Trigger the removal of an Icon from its Dock. The icon will effectively be removed at the end of the animation. If the icon is not inside a dock, nothing happens.

Parameters

plcon	the icon to remove
-------	--------------------

5.1.3.9 cairo_dock_set_transition_on_icon()

Set a Transition on an Icon.

Parameters

plcon	the icon.
pContainer	the Container of the Icon. It will be shared with the transition.
render_step_cairo	the cairo rendering function.
render_step_opengl	the openGL rendering function (can be NULL, in which case the texture mapping from the cairo drawing is done automatically).
bFastPace	TRUE for a high frequency refresh (this uses of course more CPU).
iDuration	duration if the transition, in ms. Can be 0 for an endless transition, in which case you can stop the transition with cairo_dock_remove_transition_on_icon.
bRemoveWhenFinished	TRUE to destroy and remove the transition when it is finished.
pUserData	data passed to the rendering functions.
pFreeUserDataFunc	function called to free the user data when the transition is destroyed (optionnal).

5.1.3.10 cairo_dock_remove_transition_on_icon()

```
void cairo_dock_remove_transition_on_icon ( {\tt Icon * pIcon })
```

Stop and remove the Transition of an Icon.

Parameters

plcon the icon.

5.2 cairo-dock-applet-canvas.h File Reference

Macros

- #define CD_APPLET_DEFINE_ALL_BEGIN(_cName, _iMajorVersion, _iMinorVersion, _iMicroVersion, _i→
 AppletCategory, _cDescription, _cAuthor)
- #define CD_APPLET_DEFINE_END
- #define CD_APPLET_DEFINITION(cName, iMajorVersion, iMinorVersion, iMicroVersion, iAppletCategory, cDescription, cAuthor)
- #define CD_APPLET_DEFINE2_ALL_BEGIN(cName, iFlags, _iAppletCategory, _cDescription, _cAuthor)
- #define CD_APPLET_INIT_ALL_BEGIN(pApplet)
- #define CD APPLET INIT END
- #define CD_APPLET_STOP_BEGIN
- #define CD_APPLET_STOP_END
- #define CD_APPLET_RELOAD_ALL_BEGIN
- #define CD_APPLET_RELOAD_END
- #define CD APPLET GET CONFIG ALL BEGIN
- #define CD APPLET GET CONFIG END
- #define CD_APPLET_RESET_CONFIG_ALL_BEGIN
- #define CD APPLET RESET CONFIG ALL END
- #define CD_APPLET_RESET_DATA_BEGIN
- #define CD_APPLET_RESET_DATA_ALL_END
- #define CD_APPLET_ON_CLICK_BEGIN
- #define CD_APPLET_ON_CLICK_END
- #define CD APPLET ON BUILD MENU BEGIN
- #define CD_APPLET_ON_BUILD_MENU_END
- #define CD APPLET ON MIDDLE CLICK BEGIN
- #define CD APPLET ON MIDDLE CLICK END
- #define CD APPLET ON DOUBLE CLICK BEGIN
- #define CD_APPLET_ON_DOUBLE_CLICK_END
- #define CD_APPLET_ON_DROP_DATA_BEGIN
- #define CD_APPLET_ON_DROP_DATA_END
- #define CD APPLET ON SCROLL BEGIN
- #define CD APPLET ON SCROLL END
- #define CD APPLET ON UPDATE ICON BEGIN
- #define CD APPLET ON UPDATE ICON END
- #define CD_APPLET_SKIP_UPDATE_ICON
- #define CD_APPLET_STOP_UPDATE_ICON
- #define CD_APPLET_PAUSE_UPDATE_ICON
- #define CD_APPLET_REGISTER_FOR_CLICK_EVENT
- #define CD_APPLET_UNREGISTER_FOR_CLICK_EVENT
- #define CD_APPLET_REGISTER_FOR_BUILD_MENU_EVENT
- #define CD_APPLET_UNREGISTER_FOR_BUILD_MENU_EVENT
 #define CD_APPLET_REGISTER_FOR_MIDDLE_CLICK_EVENT
- #define CD APPLET UNREGISTER FOR MIDDLE CLICK EVENT
- * #defille OD_AFFEET_ONNEGISTER_FOR_MIDDLE_OLION_EVEN
- #define CD_APPLET_REGISTER_FOR_DOUBLE_CLICK_EVENT
- #define CD_APPLET_UNREGISTER_FOR_DOUBLE_CLICK_EVENT

- #define CD_APPLET_REGISTER_FOR_DROP_DATA_EVENT
- #define CD_APPLET_UNREGISTER_FOR_DROP_DATA_EVENT
- #define CD APPLET REGISTER FOR SCROLL EVENT
- #define CD APPLET UNREGISTER FOR SCROLL EVENT
- #define CD_APPLET_REGISTER_FOR_UPDATE_ICON_SLOW_EVENT
- #define CD_APPLET_UNREGISTER_FOR_UPDATE_ICON_SLOW_EVENT
- #define CD_APPLET_REGISTER_FOR_UPDATE_ICON_EVENT
- #define CD_APPLET_UNREGISTER_FOR_UPDATE_ICON_EVENT

5.2.1 Detailed Description

This file defines numerous macros, that form a canvas for all the applets.

You probably won't need to dig into this file, since you can generate an applet with the 'generate-new-applet. ← sh' script, that will build the whole canvas for you. Moreover, you can have a look at an applet that has a similar functioning to yours.

5.2.2 Macro Definition Documentation

5.2.2.1 CD_APPLET_DEFINE_ALL_BEGIN

Debut de la fonction de pre-initialisation de l'applet (celle qui est appele a l'enregistrement de tous les plug-ins). Definit egalement les variables globales suivantes : mylcon, myDock, myDesklet, myContainer, et myDrawContext.

Parameters

_cName	nom de sous lequel l'applet sera enregistree par Cairo-Dock.	
_iMajorVersion	version majeure du dock necessaire au bon fonctionnement de l'applet.	
_iMinorVersion	version mineure du dock necessaire au bon fonctionnement de l'applet.	
_iMicroVersion	version micro du dock necessaire au bon fonctionnement de l'applet.	
_iAppletCategory	Categorie de l'applet (CAIRO_DOCK_CATEGORY_ACCESSORY, CAIRO_DOCK_CATEGORY_DESKTOP, CAIRO_DOCK_CATEGORY_CONTROLER)	
_cDescription	description et mode d'emploi succint de l'applet.	
_cAuthor	nom de l'auteur et eventuellement adresse mail.	

5.2.2.2 CD_APPLET_DEFINE_END

```
#define CD_APPLET_DEFINE_END
```

Fin de la fonction de pre-initialisation de l'applet.

5.2.2.3 CD_APPLET_DEFINITION

```
#define CD_APPLET_DEFINITION(

cName,

iMajorVersion,

iMinorVersion,

iMicroVersion,

iAppletCategory,

cDescription,

cAuthor)
```

Fonction de pre-initialisation generique. Ne fais que definir l'applet (en appelant les 2 macros precedentes), la plupart du temps cela est suffisant.

5.2.2.4 CD_APPLET_DEFINE2_ALL_BEGIN

New type of applet definition. Uses the pre_init function only for filling out the visit card and the post_load function for all other init.

5.2.2.5 CD_APPLET_INIT_ALL_BEGIN

Debut de la fonction d'initialisation de l'applet (celle qui est appelee a chaque chargement de l'applet). Lis le fichier de conf de l'applet, et cree son icone ainsi que son contexte de dessin.

Parameters

pApplet	une instance du module.

5.2.2.6 CD_APPLET_INIT_END

```
#define CD_APPLET_INIT_END
```

Fin de la fonction d'initialisation de l'applet.

5.2.2.7 CD_APPLET_STOP_BEGIN

```
#define CD_APPLET_STOP_BEGIN
```

Debut de la fonction d'arret de l'applet.

5.2.2.8 CD_APPLET_STOP_END

#define CD_APPLET_STOP_END

Fin de la fonction d'arret de l'applet.

5.2.2.9 CD_APPLET_RELOAD_ALL_BEGIN

#define CD_APPLET_RELOAD_ALL_BEGIN

Debut de la fonction de rechargement de l'applet.

5.2.2.10 CD_APPLET_RELOAD_END

#define CD_APPLET_RELOAD_END

Fin de la fonction de rechargement de l'applet.

5.2.2.11 CD_APPLET_GET_CONFIG_ALL_BEGIN

#define CD_APPLET_GET_CONFIG_ALL_BEGIN

Debut de la fonction de configuration de l'applet (celle qui est appelee au debut de l'init).

5.2.2.12 CD_APPLET_GET_CONFIG_END

#define CD_APPLET_GET_CONFIG_END

Fin de la fonction de configuration de l'applet.

5.2.2.13 CD_APPLET_RESET_CONFIG_ALL_BEGIN

#define CD_APPLET_RESET_CONFIG_ALL_BEGIN

Debut de la fonction de liberation des donnees de la config.

5.2.2.14 CD_APPLET_RESET_CONFIG_ALL_END

#define CD_APPLET_RESET_CONFIG_ALL_END

Fin de la fonction de liberation des donnees de la config.

5.2.2.15 CD_APPLET_RESET_DATA_BEGIN

#define CD_APPLET_RESET_DATA_BEGIN

Debut de la fonction de liberation des donnees internes.

5.2.2.16 CD_APPLET_RESET_DATA_ALL_END

#define CD_APPLET_RESET_DATA_ALL_END

Fin de la fonction de liberation des donnees internes.

5.2.2.17 CD_APPLET_ON_CLICK_BEGIN

#define CD_APPLET_ON_CLICK_BEGIN

Debut de la fonction de notification au clic gauche.

5.2.2.18 CD_APPLET_ON_CLICK_END

#define CD_APPLET_ON_CLICK_END

Fin de la fonction de notification au clic gauche. Par defaut elle intercepte la notification si elle l'a recue.

5.2.2.19 CD_APPLET_ON_BUILD_MENU_BEGIN

#define CD_APPLET_ON_BUILD_MENU_BEGIN

Debut de la fonction de notification de construction du menu.

5.2.2.20 CD_APPLET_ON_BUILD_MENU_END

#define CD_APPLET_ON_BUILD_MENU_END

Fin de la fonction de notification de construction du menu. Par defaut elle intercepte la notification si elle l'a recue.

5.2.2.21 CD APPLET ON MIDDLE CLICK BEGIN

#define CD_APPLET_ON_MIDDLE_CLICK_BEGIN

Debut de la fonction de notification du clic du milieu.

5.2.2.22 CD_APPLET_ON_MIDDLE_CLICK_END

#define CD_APPLET_ON_MIDDLE_CLICK_END

Fin de la fonction de notification du clic du milieu. Par defaut elle intercepte la notification si elle l'a recue.

5.2.2.23 CD_APPLET_ON_DOUBLE_CLICK_BEGIN

#define CD_APPLET_ON_DOUBLE_CLICK_BEGIN

Debut de la fonction de notification du clic du milieu.

5.2.2.24 CD_APPLET_ON_DOUBLE_CLICK_END

```
#define CD_APPLET_ON_DOUBLE_CLICK_END
```

Fin de la fonction de notification du clic du milieu. Par defaut elle intercepte la notification si elle l'a recue.

5.2.2.25 CD_APPLET_ON_DROP_DATA_BEGIN

```
#define CD_APPLET_ON_DROP_DATA_BEGIN
```

Debut de la fonction de notification du glisse-depose.

5.2.2.26 CD_APPLET_ON_DROP_DATA_END

```
#define CD_APPLET_ON_DROP_DATA_END
```

Fin de la fonction de notification du glisse-depose. Par defaut elle intercepte la notification si elle l'a recue.

5.2.2.27 CD_APPLET_ON_SCROLL_BEGIN

```
#define CD_APPLET_ON_SCROLL_BEGIN
```

Debut de la fonction de notification au scroll.

5.2.2.28 CD_APPLET_ON_SCROLL_END

```
#define CD_APPLET_ON_SCROLL_END
```

Fin de la fonction de notification au scroll. Par defaut elle intercepte la notification si elle l'a recue.

5.2.2.29 CD APPLET ON UPDATE ICON BEGIN

```
#define CD_APPLET_ON_UPDATE_ICON_BEGIN
```

Debut de la fonction de notification d'update icon.

5.2.2.30 CD_APPLET_ON_UPDATE_ICON_END

```
#define CD_APPLET_ON_UPDATE_ICON_END
```

Fin de la fonction de notification d'update icon.

5.2.2.31 CD_APPLET_SKIP_UPDATE_ICON

```
#define CD_APPLET_SKIP_UPDATE_ICON
```

Quit the update function immediately and wait for the next update.

5.2.2.32 CD_APPLET_STOP_UPDATE_ICON

#define CD_APPLET_STOP_UPDATE_ICON

Quit the update function immediately with no more updates.

5.2.2.33 CD_APPLET_PAUSE_UPDATE_ICON

#define CD_APPLET_PAUSE_UPDATE_ICON

Quit the update function immediately with no more updates after redrawing the icon.

5.2.2.34 CD_APPLET_REGISTER_FOR_CLICK_EVENT

#define CD_APPLET_REGISTER_FOR_CLICK_EVENT

Abonne l'applet aux notifications du clic gauche. A effectuer lors de l'init de l'applet.

5.2.2.35 CD_APPLET_UNREGISTER_FOR_CLICK_EVENT

#define CD_APPLET_UNREGISTER_FOR_CLICK_EVENT

Desabonne l'applet aux notifications du clic gauche. A effectuer lors de l'arret de l'applet.

5.2.2.36 CD_APPLET_REGISTER_FOR_BUILD_MENU_EVENT

#define CD_APPLET_REGISTER_FOR_BUILD_MENU_EVENT

Abonne l'applet aux notifications de construction du menu. A effectuer lors de l'init de l'applet.

5.2.2.37 CD_APPLET_UNREGISTER_FOR_BUILD_MENU_EVENT

#define CD_APPLET_UNREGISTER_FOR_BUILD_MENU_EVENT

Desabonne l'applet aux notifications de construction du menu. A effectuer lors de l'arret de l'applet.

5.2.2.38 CD_APPLET_REGISTER_FOR_MIDDLE_CLICK_EVENT

#define CD_APPLET_REGISTER_FOR_MIDDLE_CLICK_EVENT

Abonne l'applet aux notifications du clic du milieu. A effectuer lors de l'init de l'applet.

5.2.2.39 CD_APPLET_UNREGISTER_FOR_MIDDLE_CLICK_EVENT

#define CD_APPLET_UNREGISTER_FOR_MIDDLE_CLICK_EVENT

Desabonne l'applet aux notifications du clic du milieu. A effectuer lors de l'arret de l'applet.

5.2.2.40 CD_APPLET_REGISTER_FOR_DOUBLE_CLICK_EVENT

#define CD_APPLET_REGISTER_FOR_DOUBLE_CLICK_EVENT

Abonne l'applet aux notifications du double clic. A effectuer lors de l'init de l'applet.

5.2.2.41 CD_APPLET_UNREGISTER_FOR_DOUBLE_CLICK_EVENT

#define CD_APPLET_UNREGISTER_FOR_DOUBLE_CLICK_EVENT

Desabonne l'applet aux notifications du double clic. A effectuer lors de l'arret de l'applet.

5.2.2.42 CD_APPLET_REGISTER_FOR_DROP_DATA_EVENT

#define CD_APPLET_REGISTER_FOR_DROP_DATA_EVENT

Abonne l'applet aux notifications du glisse-depose. A effectuer lors de l'init de l'applet.

5.2.2.43 CD_APPLET_UNREGISTER_FOR_DROP_DATA_EVENT

#define CD_APPLET_UNREGISTER_FOR_DROP_DATA_EVENT

Desabonne l'applet aux notifications du glisse-depose. A effectuer lors de l'arret de l'applet.

5.2.2.44 CD_APPLET_REGISTER_FOR_SCROLL_EVENT

#define CD_APPLET_REGISTER_FOR_SCROLL_EVENT

Abonne l'applet aux notifications du clic gauche. A effectuer lors de l'init de l'applet.

5.2.2.45 CD APPLET UNREGISTER FOR SCROLL EVENT

#define CD_APPLET_UNREGISTER_FOR_SCROLL_EVENT

Desabonne l'applet aux notifications du clic gauche. A effectuer lors de l'arret de l'applet.

5.2.2.46 CD_APPLET_REGISTER_FOR_UPDATE_ICON_SLOW_EVENT

#define CD_APPLET_REGISTER_FOR_UPDATE_ICON_SLOW_EVENT

Register the applet to the 'update icon' notifications of the slow rendering loop.

5.2.2.47 CD_APPLET_UNREGISTER_FOR_UPDATE_ICON_SLOW_EVENT

#define CD_APPLET_UNREGISTER_FOR_UPDATE_ICON_SLOW_EVENT

Unregister the applet from the slow rendering loop.

5.2.2.48 CD_APPLET_REGISTER_FOR_UPDATE_ICON_EVENT

#define CD_APPLET_REGISTER_FOR_UPDATE_ICON_EVENT

Register the applet to the 'update icon' notifications of the fast rendering loop.

5.2.2.49 CD_APPLET_UNREGISTER_FOR_UPDATE_ICON_EVENT

#define CD_APPLET_UNREGISTER_FOR_UPDATE_ICON_EVENT

Unregister the applet from the fast rendering loop.

5.3 cairo-dock-applet-facility.h File Reference

Macros

- #define cairo_dock_set_icon_surface(plconContext, pSurface, plcon)
- #define CD CONFIG GET BOOLEAN WITH DEFAULT(cGroupName, cKeyName, bDefaultValue)
- #define CD CONFIG GET BOOLEAN(cGroupName, cKeyName)
- #define CD_CONFIG_GET_INTEGER_WITH_DEFAULT(cGroupName, cKeyName, iDefaultValue)
- #define CD_CONFIG_GET_INTEGER(cGroupName, cKeyName)
- #define CD_CONFIG_GET_DOUBLE_WITH_DEFAULT(cGroupName, cKeyName, fDefaultValue)
- #define CD CONFIG GET DOUBLE(cGroupName, cKeyName)
- #define CD CONFIG GET INTEGER LIST(cGroupName, cKeyName, iNbElements, iValueBuffer)
- #define CD CONFIG GET STRING WITH DEFAULT(cGroupName, cKeyName, cDefaultValue)
- #define CD_CONFIG_GET_STRING(cGroupName, cKeyName)
- #define CD_CONFIG_GET_FILE_PATH(cGroupName, cKeyName, cDefaultFileName)
- #define CD_CONFIG_GET_STRING_LIST_WITH_DEFAULT(cGroupName, cKeyName, length, cDefault
 Values)
- #define CD_CONFIG_GET_STRING_LIST(cGroupName, cKeyName, length)
- #define CD_CONFIG_GET_COLOR_RGBA_WITH_DEFAULT(cGroupName, cKeyName, pColorBuffer, p
 — DefaultColor)
- #define CD_CONFIG_GET_COLOR_RGBA(cGroupName, cKeyName, pColorBuffer)
- #define CD_CONFIG_GET_COLOR_RGB_WITH_DEFAULT(cGroupName, cKeyName, pColorBuffer, p
 — DefaultColor)
- #define CD CONFIG GET COLOR RGB(cGroupName, cKeyName, pColorBuffer)
- #define CD CONFIG GET COLOR(cGroupName, cKeyName, pColor)
- #define CD_CONFIG_GET_GAUGE_THEME(cGroupName, cKeyName)
- #define CD_CONFIG_RENAME_GROUP(cGroupName, cNewGroupName)
- #define CD_APPLET_ADD_SUB_MENU_WITH_IMAGE(cLabel, pMenu, clmage)
- #define CD_APPLET_ADD_SUB_MENU(cLabel, pMenu)
- #define CD_APPLET_ADD_IN_MENU_WITH_TOOLTIP_AND_DATA(cLabel, gtkStock, cToolTip, pCallBack, pMenu, pData)
- #define CD_APPLET_ADD_IN_MENU_WITH_STOCK_AND_DATA(cLabel, gtkStock, pCallBack, pMenu, pData)
- #define CD_APPLET_ADD_IN_MENU_WITH_DATA(cLabel, pCallBack, pMenu, pData)
- #define CD_APPLET_ADD_IN_MENU(cLabel, pCallBack, pMenu)
- #define CD APPLET ADD IN MENU WITH STOCK(cLabel, gtkStock, pCallBack, pMenu)
- #define CD_APPLET_ADD_SEPARATOR_IN_MENU(pMenu)

- #define CD_APPLET_POPUP_MENU_ON_MY_ICON(pMenu)
- #define CD APPLET RELOAD CONFIG PANEL
- #define CD_APPLET_RELOAD_CONFIG_PANEL_WITH_PAGE(iNumPage)
- #define CD APPLET MY CONF FILE
- #define CD APPLET MY KEY FILE
- #define CD_APPLET_MY_CONFIG_CHANGED
- #define CD APPLET MY CONTAINER TYPE CHANGED
- #define CD APPLET MY OLD CONTAINER
- #define CD APPLET CLICKED ICON
- #define CD APPLET CLICKED CONTAINER
- #define CD APPLET SHIFT CLICK
- #define CD APPLET CTRL CLICK
- #define CD_APPLET_ALT_CLICK
- #define CD APPLET MY MENU
- #define CD_APPLET_RECEIVED_DATA
- #define CD APPLET SCROLL UP
- #define CD APPLET SCROLL DOWN
- #define CD APPLET BIND KEY(cShortKey, cDescription, cGroupName, cKeyName, handler)
- #define CD_APPLET_REDRAW_MY_ICON
- #define CAIRO_DOCK_REDRAW_MY_CONTAINER
- #define CD_APPLET_LOAD_SURFACE_FOR_MY_APPLET(clmagePath)
- #define CD_APPLET_LOAD_SURFACE_FOR_MY_APPLET_WITH_DEFAULT(cUserImageName, c
 — DefaultLocalImageName)
- #define CD_APPLET_SET_SURFACE_ON_MY_ICON(pSurface)
- #define CD APPLET SET IMAGE ON MY ICON(clconName)
- #define CD_APPLET_SET_USER_IMAGE_ON_MY_ICON(clconName, cDefaultLocalImageName)
- #define CD APPLET SET DEFAULT IMAGE ON MY ICON IF NONE
- #define CD APPLET SET NAME FOR MY ICON(clconName)
- #define CD APPLET SET NAME FOR MY ICON PRINTF(clconNameFormat, ...)
- #define CD APPLET SET QUICK INFO ON MY ICON(cQuickInfo)
- #define CD_APPLET_SET_QUICK_INFO_ON_MY_ICON_PRINTF(cQuickInfoFormat, ...)
- #define CD_APPLET_SET_HOURS_MINUTES_AS_QUICK_INFO(iTimeInSeconds)
- #define CD_APPLET_SET_MINUTES_SECONDES_AS_QUICK_INFO(iTimeInSeconds)
- #define CD_APPLET_SET_SIZE_AS_QUICK_INFO(iSizeInBytes)
- #define CD_APPLET_SET_STATIC_ICON
- #define CD_APPLET_UNSET_STATIC_ICON
- #define CD_APPLET_SET_ALWAYS_VISIBLE_ICON(bAlwaysVisible)
- #define CD_APPLET_ANIMATE_MY_ICON(cAnimationName, iAnimationLength)
- #define CD_APPLET_STOP_ANIMATING_MY_ICON
- #define CD_APPLET_DEMANDS_ATTENTION(cAnimationName, iAnimationLength)
- #define CD APPLET STOP DEMANDING ATTENTION
- #define CD_APPLET_GET_MY_ICON_EXTENT(iWidthPtr, iHeightPtr)
- #define CD_APPLET_START_DRAWING_MY_ICON
- #define CD_APPLET_START_DRAWING_MY_ICON_CAIRO
- #define CD_APPLET_START_DRAWING_MY_ICON_OR_RETURN(...)
- #define CD_APPLET_START_DRAWING_MY_ICON_OR_RETURN_CAIRO(...)
- #define CD_APPLET_FINISH_DRAWING_MY_ICON
- #define CD_APPLET_FINISH_DRAWING_MY_ICON_CAIRO
- #define CD_APPLET_ADD_OVERLAY_ON_MY_ICON(clmageFile, iPosition)
- #define CD_APPLET_PRINT_OVERLAY_ON_MY_ICON(cImageFile, iPosition)
- #define CD_APPLET_REMOVE_OVERLAY_ON_MY_ICON(iPosition)
- #define CD_APPLET_ADD_DATA_RENDERER_ON_MY_ICON(pAttr)
- #define CD_APPLET_RELOAD_MY_DATA_RENDERER(...)
- #define CD_APPLET_RENDER_NEW_DATA_ON_MY_ICON(pValues)
- #define CD_APPLET_REMOVE_MY_DATA_RENDERER

- #define CD_APPLET_SET_MY_DATA_RENDERER_HISTORY_TO_MAX
- #define CD APPLET MY CONTAINER IS OPENGL
- #define CD_APPLET_SET_DESKLET_RENDERER_WITH_DATA(cRendererName, pConfig)
- #define CD_APPLET_SET_DESKLET_RENDERER(cRendererName)
- #define CD_APPLET_SET_STATIC_DESKLET
- #define CD APPLET ALLOW NO CLICKABLE DESKLET
- #define CD APPLET DELETE MY ICONS LIST
- #define CD APPLET REMOVE ICON FROM MY ICONS LIST(plcon)
- #define CD APPLET DETACH ICON FROM MY ICONS LIST(plcon)
- #define CD_APPLET_LOAD_MY_ICONS_LIST(plconList, cDockRendererName, cDeskletRendererName, pDeskletRendererConfig)
- #define CD APPLET ADD ICON IN MY ICONS LIST(plcon)
- #define CD APPLET MY ICONS LIST
- #define CD APPLET MY ICONS LIST CONTAINER
- #define CD_APPLET_MANAGE_APPLICATION(cApplicationClass)
- #define D_(message)

Enumerations

```
    enum CairoDockInfoDisplay {
        CAIRO_DOCK_INFO_NONE,
        CAIRO_DOCK_INFO_ON_ICON,
        CAIRO_DOCK_INFO_ON_LABEL,
        CAIRO_DOCK_NB_INFO_DISPLAY }
```

type of possible display on a Icon.

Functions

- void cairo_dock_set_icon_surface_full (cairo_t *plconContext, cairo_surface_t *pSurface, double fScale, double fAlpha, lcon *plcon)
- gboolean cairo_dock_set_image_on_icon (cairo_t *plconContext, const gchar *clconName, lcon *plcon, GldiContainer *pContainer)
- void cairo_dock_set_image_on_icon_with_default (cairo_t *plconContext, const gchar *cImage, lcon *plcon,
 GldiContainer *pContainer, const gchar *cDefaultImagePath)
- gchar * cairo dock get human readable size (long long int iSizeInBytes)
- void cairo dock play sound (const gchar *cSoundPath)

5.3.1 Detailed Description

A collection of useful macros for applets. Macros provides a normalized API that will:

- · lets you perform complex operations with a minimum amount of code
- · ensures a bug-free functioning
- · masks the internal complexity
- · allows a normalized and easy-to-maintain code amongst all the applets.

5.3.2 Macro Definition Documentation

5.3.2.1 cairo_dock_set_icon_surface

Apply a surface on a context. The context is cleared beforehand with the default icon background..

Parameters

plconContext	the drawing context; is not altered by the function.
pSurface	the surface to apply.
plcon	the icon.

5.3.2.2 CD_CONFIG_GET_BOOLEAN_WITH_DEFAULT

The following macros provide a convenient way to read configuration options for applets. They should only be used within the CD_APPLET_GET_CONFIG_BEGIN / CD_APPLET_GET_CONFIG_END section of an applet (usually defined in applet-config.c). Get the value of a 'boolean' from the conf file.

Parameters

cGroupName	name of the group in the conf file.
cKeyName	name of the key in the conf file.
bDefaultValue	default value if the group/key is not found (typically if the key is new).

Returns

a gboolean.

5.3.2.3 CD_CONFIG_GET_BOOLEAN

Get the value of a 'boolean' from the conf file, with TRUE as default value.

Parameters

cGroupName	name of the group in the conf file.
cKeyName	name of the key in the conf file.

Returns

a gboolean.

5.3.2.4 CD_CONFIG_GET_INTEGER_WITH_DEFAULT

```
cKeyName,
iDefaultValue )
```

Get the value of an 'integer' from the conf file.

Parameters

cGroupName	name of the group in the conf file.
cKeyName	name of the key in the conf file.
iDefaultValue	default value if the group/key is not found (typically if the key is new).

Returns

an integer.

5.3.2.5 CD_CONFIG_GET_INTEGER

Get the value of a 'entier' from the conf file, with 0 as default value.

Parameters

cGroupName	name of the group in the conf file.
cKeyName	name of the key in the conf file.

Returns

an integer.

5.3.2.6 CD_CONFIG_GET_DOUBLE_WITH_DEFAULT

Get the value of a 'double' from the conf file.

cGroupName	name of the group in the conf file.
cKeyName	name of the key in the conf file.
fDefaultValue	default value if the group/key is not found (typically if the key is new).

Returns

a double.

5.3.2.7 CD_CONFIG_GET_DOUBLE

Get the value of a 'double' from the conf file, with 0. as default value.

Parameters

cGroupName	name of the group in the conf file.
cKeyName	name of the key in the conf file.

Returns

a double.

5.3.2.8 CD_CONFIG_GET_INTEGER_LIST

Get the value of an 'integers list' from the conf file.

Parameters

cGroupName	name of the group in the conf file.
cKeyName	name of the key in the conf file.
iNbElements	number of elements to get from the conf file.
iValueBuffer	buffer to fill with the values.

5.3.2.9 CD_CONFIG_GET_STRING_WITH_DEFAULT

Get the value of a 'string' from the conf file.

Parameters

cGroupName	name of the group in the conf file.	
cKeyName	name of the key in the conf file.	
cDefaultValue	default value if the group/key is not found (typically if the key is new). can be NULL.	

Returns

a newly allocated string.

5.3.2.10 CD_CONFIG_GET_STRING

Get the value of a 'string' from the conf file, with NULL as default value.

Parameters

cGroupName	name of the group in the conf file.
cKeyName	name of the key in the conf file.

Returns

a newly allocated string.

5.3.2.11 CD_CONFIG_GET_FILE_PATH

Get the value of a 'file' from the conf file, with NULL as default value. If the value is a file name (not a path), it is supposed to be in the Cairo-Dock's current theme folder. If the value is NULL, the default file is used, taken at the applet's data folder, but the conf file is not updated with this value.

Parameters

cGroupName	name of the group in the conf file.
cKeyName	name of the key in the conf file.
cDefaultFileName	defaul tfile if none is specified in the conf file.

Returns

a newly allocated string giving the complete path of the file.

5.3.2.12 CD_CONFIG_GET_STRING_LIST_WITH_DEFAULT

Get the value of a 'strings list' from the conf file.

Parameters

cGroupName	name of the group in the conf file.
cKeyName	name of the key in the conf file.
length	pointer to the number of strings that were extracted from the conf file.
cDefaultValues	default value if the group/key is not found (typically if the key is new). It is a string with words separated by ';'. It can be NULL.

Returns

a table of strings, to be freeed with 'g_strfreev'.

5.3.2.13 CD CONFIG GET STRING LIST

Get the value of a 'strings list' from the conf file, with NULL as default value.

Parameters

cGroupName	name of the group in the conf file.
cKeyName	name of the key in the conf file.
length	pointer to the number of strings that were extracted from the conf file.

Returns

a table of strings, to be freeed with 'g_strfreev'.

5.3.2.14 CD_CONFIG_GET_COLOR_RGBA_WITH_DEFAULT

Get the value of a 'color' in the RGBA format from the conf file.

Parameters

cGroupName	name of the group in the conf file.
cKeyName	name of the key in the conf file.
pColorBuffer	a table of 4 'double' already allocated, that will be filled with the color components.
pDefaultColor	default value if the group/key is not found (typically if the key is new). It is a table of 4 'double'. It can be NULL.

5.3.2.15 CD_CONFIG_GET_COLOR_RGBA

Get the value of a 'color' in the RGBA format from the conf file, with NULL as default value.

Parameters

cGroupName	name of the group in the conf file.
cKeyName	name of the key in the conf file.
pColorBuffer	a table of 4 'double' already allocated, that will be filled with the color components.

$5.3.2.16 \quad \text{CD_CONFIG_GET_COLOR_RGB_WITH_DEFAULT}$

Get the value of a 'color' in the RGB format from the conf file.

Parameters

cGroupName	name of the group in the conf file.
cKeyName	name of the key in the conf file.
pColorBuffer	a table of 3 'double' already allocated, that will be filled with the color components.
pDefaultColor	default value if the group/key is not found (typically if the key is new). It is a table of 3 'double'.
	It can be NULL.

5.3.2.17 CD_CONFIG_GET_COLOR_RGB

Get the value of a 'color' in the RGB format from the conf file, with NULL as default value.	

Parameters

cGroupName	name of the group in the conf file.
cKeyName	name of the key in the conf file.
pColorBuffer	a table of 3 'double' already allocated, that will be filled with the color components.

5.3.2.18 CD_CONFIG_GET_COLOR

Get the value of a 'color' in a GldiColor from the conf file, with NULL as default value.

Parameters

cGroupName	name of the group in the conf file.
cKeyName	name of the key in the conf file.
pColor	a GldiColor already allocated, that will be filled with the color components.

5.3.2.19 CD_CONFIG_GET_THEME_PATH

Get the complete path of a theme in the conf file.

Parameters

cGroupName	name of the group (in the conf file).
cKeyName	name of the key (in the conf file).
cThemeDirName	name of the folder containing the local, user, and distant themes.
cDefaultThemeName	default value, if the key/group/theme doesn't exist.

Returns

Path to the folder of the theme, in a newly allocated string.

5.3.2.20 CD_CONFIG_GET_GAUGE_THEME

Get the complete path of a Gauge theme in the conf file.

Parameters

cGroupName	name of the group (in the conf file).
cKeyName	name of the key (in the conf file).

Returns

Path to the theme, in a newly allocated string.

5.3.2.21 CD_CONFIG_RENAME_GROUP

Rename a group in the conf file, in case you had to change it. Do nothing if the old group no more exists in the conf file

Parameters

cGroupName	name of the group.
cNewGroupName	new name of the group.

5.3.2.22 CD_APPLET_ADD_SUB_MENU_WITH_IMAGE

Create and add a sub-menu to a given menu.

Parameters

cLabel	name of the sub-menu.
pMenu	GtkWidget of the menu we will add the sub-menu to
clmage	name of an image (can be a path or a GtkStock).

Returns

the sub-menu, newly created and attached to the menu.

5.3.2.23 CD_APPLET_ADD_SUB_MENU

Create and add a sub-menu to a given menu.

Parameters

cLabel	name of the sub-menu.
pMenu	GtkWidget of the menu we will add the sub-menu to

Returns

the sub-menu, newly created and attached to the menu.

5.3.2.24 CD_APPLET_ADD_IN_MENU_WITH_TOOLTIP_AND_DATA

Create and add an entry to a menu, with an icon and a tooltip. It is recommended to use this function to add a tooltip instead of gtk_widget_set_tooltip_text () as on Wayland and gtk-layer-shell there seems to be a race condition with GTK internals that can result in an attempt to re-show the tooltip after the menu has been closed, that leads to a protocol error and crash; see https://github.com/wmww/gtk-layer-shell/issues/207. This function takes care to keep the tooltip hidden when the menu has been closed.

Parameters

cLabel	name of the entry.
gtkStock	name of a GTK icon or path to an image.
pCallBack	function called when the user selects this entry.
pMenu	menu to add the entry to.
pData	data passed as parameter of the callback.

5.3.2.25 CD_APPLET_ADD_IN_MENU_WITH_STOCK_AND_DATA

Create and add an entry to a menu, with an icon.

cLabel	name of the entry.
gtkStock	name of a GTK icon or path to an image.
pCallBack	function called when the user selects this entry.
pMenu	menu to add the entry to.
pData	data passed as parameter of the callback.

5.3.2.26 CD_APPLET_ADD_IN_MENU_WITH_DATA

Create and add an entry to a menu.

Parameters

cLabel	name of the entry.
pCallBack	function called when the user selects this entry.
pMenu	menu to add the entry to.
pData	data passed as parameter of the callback.

5.3.2.27 CD_APPLET_ADD_IN_MENU

Create and add an entry to a menu. 'myApplet' will be passed to the callback.

Parameters

cLabel	name of the entry.
pCallBack	function called when the user selects this entry.
pMenu	menu to add the entry to.

5.3.2.28 CD_APPLET_ADD_IN_MENU_WITH_STOCK

Create and add an entry to a menu, with an icon. 'myApplet' will be passed to the callback.

cLabel	name of the entry.
gtkStock	name of a GTK icon or path to an image.
pCallBack	function called when the user selects this entry.
pMenu	menu to add the entry to.

5.3.2.29 CD_APPLET_ADD_SEPARATOR_IN_MENU

Create and add a separator to a menu.

5.3.2.30 CD_APPLET_POPUP_MENU_ON_MY_ICON

Pop-up a menu on the applet's icon.

Parameters

pMenu	menu to show
pEvent	GTK event which is the trigger (if not the currently processed event)

5.3.2.31 CD_APPLET_RELOAD_CONFIG_PANEL

```
#define CD_APPLET_RELOAD_CONFIG_PANEL
```

Reload the config panel of the applet. This is useful if you have custom widgets inside your conf file, and need to reload them.

5.3.2.32 CD_APPLET_RELOAD_CONFIG_PANEL_WITH_PAGE

```
\label{eq:config_panel_with_page} $$\#define CD_APPLET_RELOAD_CONFIG_PANEL_WITH_PAGE($$iNumPage$$)$
```

Reload the config panel of the applet and jump to the given page. This is useful if you have custom widgets inside your conf file, and need to reload them.

5.3.2.33 CD_APPLET_MY_CONF_FILE

```
#define CD_APPLET_MY_CONF_FILE
```

Path of the applet's instance's conf file.

5.3.2.34 CD_APPLET_MY_KEY_FILE

```
#define CD_APPLET_MY_KEY_FILE
```

Key file of the applet instance, availale during the init, config, and reload.

5.3.2.35 CD_APPLET_MY_CONFIG_CHANGED

#define CD_APPLET_MY_CONFIG_CHANGED

TRUE if the conf file has changed before the reload.

5.3.2.36 CD_APPLET_MY_CONTAINER_TYPE_CHANGED

#define CD_APPLET_MY_CONTAINER_TYPE_CHANGED

TRUE if the container type has changed (which can only happen if the config has changed).

5.3.2.37 CD_APPLET_MY_OLD_CONTAINER

#define CD_APPLET_MY_OLD_CONTAINER

The previous Container.

5.3.2.38 CD_APPLET_CLICKED_ICON

#define CD_APPLET_CLICKED_ICON

The clicked Icon.

5.3.2.39 CD_APPLET_CLICKED_CONTAINER

#define CD_APPLET_CLICKED_CONTAINER

The clicked Container.

5.3.2.40 CD_APPLET_SHIFT_CLICK

#define CD_APPLET_SHIFT_CLICK

TRUE if the 'SHIFT' key was pressed during the click.

5.3.2.41 CD_APPLET_CTRL_CLICK

#define CD_APPLET_CTRL_CLICK

TRUE if the 'CTRL' key was pressed during the click.

5.3.2.42 CD_APPLET_ALT_CLICK

#define CD_APPLET_ALT_CLICK

TRUE if the 'ALT' key was pressed during the click.

5.3.2.43 CD_APPLET_MY_MENU

```
#define CD_APPLET_MY_MENU
```

Main menu of the applet.

5.3.2.44 CD_APPLET_RECEIVED_DATA

```
#define CD_APPLET_RECEIVED_DATA
```

Data received after a drop occured (string).

5.3.2.45 CD_APPLET_SCROLL_UP

```
#define CD_APPLET_SCROLL_UP
```

TRUE if the user scrolled up.

5.3.2.46 CD_APPLET_SCROLL_DOWN

```
#define CD_APPLET_SCROLL_DOWN
```

TRUE if the user scrolled down.

5.3.2.47 CD_APPLET_BIND_KEY

Bind a shortkey to an action. Unref it when you don't want it anymore. 'myApplet' is passed as the callback data.

Parameters

cShortKey	a keyboard shortcut.
cDescription	a short description of the action
cGroupName	group name where it's stored in the applet's conf file
cKeyName	key name where it's stored in the applet's conf file
handler	function called when the shortkey is pressed by the user

Returns

the shortkey.

5.3.2.48 CD_APPLET_REDRAW_MY_ICON

```
#define CD_APPLET_REDRAW_MY_ICON
```

Redraw the applet's icon (as soon as the main loop is available).

5.3.2.49 CAIRO_DOCK_REDRAW_MY_CONTAINER

```
#define CAIRO_DOCK_REDRAW_MY_CONTAINER
```

Redraw the applet's container (as soon as the main loop is available).

5.3.2.50 CD_APPLET_LOAD_SURFACE_FOR_MY_APPLET

```
\begin{tabular}{ll} \# define & CD\_APPLET\_LOAD\_SURFACE\_FOR\_MY\_APPLET ( \\ & cImagePath \end{tabular} ) \end{tabular}
```

Load an image into a surface, at the same size as the applet's icon. If the image is given by its sole name, it is searched inside the current theme root folder.

Parameters

clmagePath

Returns

the newly allocated surface.

5.3.2.51 CD_APPLET_LOAD_SURFACE_FOR_MY_APPLET_WITH_DEFAULT

Load a user image into a surface, at the same size as the applet's icon, or a default image taken in the installed folder of the applet if the first one is NULL. If the user image is given by its sole name, it is searched inside the current theme root folder.

Parameters

cUserImageName	name or path of an user image.
cDefaultLocalImageName	default image

Returns

the newly allocated surface.

5.3.2.52 CD_APPLET_SET_SURFACE_ON_MY_ICON

Apply a surface on the applet's icon, and redraw it.

Parameters

face the surface to draw on you	r icon.
---------------------------------	---------

5.3.2.53 CD_APPLET_SET_IMAGE_ON_MY_ICON

Apply an image on the applet's icon. The image is resized at the same size as the icon. Does not trigger the icon refresh.

Parameters

me of an icon or path to an image.	clconName name
------------------------------------	----------------

5.3.2.54 CD_APPLET_SET_USER_IMAGE_ON_MY_ICON

Apply an image on the applet's icon, clearing it beforehand, and adding the reflect. The image is searched in any possible locations, and the default image provided is used if the search was fruitless (taken in the installation folder of the applet).

Parameters

clconName	name of an icon or path to an image.
cDefaultLocalImageName	name of an image to use as a fallback (taken in the applet's installation folder).

5.3.2.55 CD_APPLET_SET_DEFAULT_IMAGE_ON_MY_ICON_IF_NONE

```
#define CD_APPLET_SET_DEFAULT_IMAGE_ON_MY_ICON_IF_NONE
```

Apply the default icon on the applet's icon if there is no image yet.

5.3.2.56 CD_APPLET_SET_NAME_FOR_MY_ICON

Set a new label on the applet's icon.

Parameters

5.3.2.57 CD_APPLET_SET_NAME_FOR_MY_ICON_PRINTF

Set a new label on the applet's icon.

Parameters

clconNameFormat	the label, in a 'printf'-like format.
	values to be written in the string.

5.3.2.58 CD_APPLET_SET_QUICK_INFO_ON_MY_ICON

Set a quick-info on the applet's icon.

Parameters

	cQuickInfo	the quick-info. This is a small text (a few characters) that is superimposed on the icon.	
--	------------	---	--

5.3.2.59 CD_APPLET_SET_QUICK_INFO_ON_MY_ICON_PRINTF

Set a quick-info on the applet's icon.

Parameters

cQuickInfoFormat	the label, in a 'printf'-like format.
	values to be written in the string.

5.3.2.60 CD_APPLET_SET_HOURS_MINUTES_AS_QUICK_INFO

```
\label{eq:conds}  \mbox{\#define CD_APPLET_SET_HOURS\_MINUTES\_AS\_QUICK\_INFO(} \\ it is ime In Seconds \ )
```

olo dano dook appiet idomty i ne ricierence	
Write the time in hours-minutes as a quick-info on the applet's icon.	

Parameters

5.3.2.61 CD_APPLET_SET_MINUTES_SECONDES_AS_QUICK_INFO

```
\label{eq:condes} \begin{tabular}{ll} \#define & CD\_APPLET\_SET\_MINUTES\_SECONDES\_AS\_QUICK\_INFO ( \\ & iTimeInSeconds \end{tabular} )
```

Write the time in minutes-secondes as a quick-info on the applet's icon.

Parameters

<i>iTimeInSeconds</i> the time in seconds.
--

5.3.2.62 CD_APPLET_SET_SIZE_AS_QUICK_INFO

Write a size in bytes as a quick-info on the applet's icon.

Parameters

iSizeInBytes	the size in bytes, converted into a readable format.
--------------	--

5.3.2.63 CD_APPLET_SET_STATIC_ICON

```
#define CD_APPLET_SET_STATIC_ICON
```

Prevent the applet's icon to be animated when the mouse hovers it (call it once at init).

5.3.2.64 CD_APPLET_UNSET_STATIC_ICON

```
#define CD_APPLET_UNSET_STATIC_ICON
```

Prevent the applet's icon to be animated when the mouse hovers it (call it once at init).

5.3.2.65 CD APPLET SET ALWAYS VISIBLE ICON

```
\begin{tabular}{ll} \# define & CD\_APPLET\_SET\_ALWAYS\_VISIBLE\_ICON ( \\ & bAlwaysVisible \end{tabular} )
```

Make the applet's icon always visible, even when the dock is hidden.

5.3.2.66 CD_APPLET_ANIMATE_MY_ICON

Launch an animation on the applet's icon.

Parameters

cAnimationName	name of the animation.
iAnimationLength	number of rounds the animation should be played.

5.3.2.67 CD_APPLET_STOP_ANIMATING_MY_ICON

```
#define CD_APPLET_STOP_ANIMATING_MY_ICON
```

Stop any animation on the applet's icon.

5.3.2.68 CD_APPLET_DEMANDS_ATTENTION

Make applet's icon demanding the attention: it will launch the given animation, and the icon will be visible even if the dock is hidden.

Parameters

cAnimationName	name of the animation.
iAnimationLength	number of rounds the animation should be played, or 0 for an endless animation.

5.3.2.69 CD_APPLET_STOP_DEMANDING_ATTENTION

```
#define CD_APPLET_STOP_DEMANDING_ATTENTION
```

Stop the demand of attention on the applet's icon.

5.3.2.70 CD_APPLET_GET_MY_ICON_EXTENT

Get the dimension allocated to the surface/texture of the applet's icon.

Parameters

iWidthPtr	pointer to the width.
iHeightPtr	pointer to the height.

5.3.2.71 CD_APPLET_START_DRAWING_MY_ICON

```
#define CD_APPLET_START_DRAWING_MY_ICON
```

Initiate an OpenGL drawing session on the applet's icon.

5.3.2.72 CD_APPLET_START_DRAWING_MY_ICON_CAIRO

```
#define CD_APPLET_START_DRAWING_MY_ICON_CAIRO
```

Initiate a Cairo drawing session on the applet's icon.

5.3.2.73 CD_APPLET_START_DRAWING_MY_ICON_OR_RETURN

Initiate an OpenGL drawing session on the applet's icon, or quit the function if failed.

Parameters

... value to return in case of failure.

5.3.2.74 CD_APPLET_START_DRAWING_MY_ICON_OR_RETURN_CAIRO

Initiate a Cairo drawing session on the applet's icon, or quit the function if failed.

Parameters

... value to return in case of failure.

5.3.2.75 CD_APPLET_FINISH_DRAWING_MY_ICON

```
#define CD_APPLET_FINISH_DRAWING_MY_ICON
```

Terminate an OpenGL drawing session on the applet's icon. Does not trigger the icon's redraw.

5.3.2.76 CD_APPLET_FINISH_DRAWING_MY_ICON_CAIRO

```
#define CD_APPLET_FINISH_DRAWING_MY_ICON_CAIRO
```

Terminate an OpenGL drawing session on the applet's icon. Does not trigger the icon's redraw.

5.3.2.77 CD_APPLET_ADD_OVERLAY_ON_MY_ICON

Add an overlay from an image on the applet's icon.

Parameters

clmageFile	an image (if it's not a path, it is searched amongst the current theme's images)
iPosition	position where to display the overlay

Returns

the overlay, or NULL if the image couldn't be loaded.

5.3.2.78 CD_APPLET_PRINT_OVERLAY_ON_MY_ICON

Print an overlay from an image on the applet's icon (it can't be removed without erasing the icon).

Parameters

clmageFile	an image (if it's not a path, it is searched amongst the current theme's images)
iPosition	position where to display the overlay

Returns

TRUE if the overlay has been successfuly printed.

5.3.2.79 CD_APPLET_REMOVE_OVERLAY_ON_MY_ICON

```
#define CD_APPLET_REMOVE_OVERLAY_ON_MY_ICON( iPosition\ )
```

Remove an overlay from the applet's icon. The overlay is destroyed.

Parameters

iPosition position of the overlay

5.3.2.80 CD_APPLET_ADD_DATA_RENDERER_ON_MY_ICON

```
\label{eq:define_con_my_icon} $$\# define_{CD\_APPLET\_ADD\_DATA\_RENDERER\_ON\_MY\_ICON(}$$ pAttr )
```

Add a Data Renderer the applet's icon.

Parameters

pAttr the attributes of the Data Renderer. They allow you to define its properties.

5.3.2.81 CD APPLET RELOAD MY DATA RENDERER

Reload the Data Renderer of the applet's icon, without changing any of its parameters. Previous values are kept.

5.3.2.82 CD_APPLET_RENDER_NEW_DATA_ON_MY_ICON

```
#define CD_APPLET_RENDER_NEW_DATA_ON_MY_ICON( pValues \ )
```

Add new values to the Data Renderer of the applet's icon. Values are a table of 'double', having the same size as defined when the data renderer was created (1 by default). It also triggers the redraw of the icon.

Parameters

pValues the values, a table of double of the correct size.

5.3.2.83 CD_APPLET_REMOVE_MY_DATA_RENDERER

```
#define CD_APPLET_REMOVE_MY_DATA_RENDERER
```

Completely remove the Data Renderer of the applet's icon, including the values associated with.

5.3.2.84 CD_APPLET_SET_MY_DATA_RENDERER_HISTORY_TO_MAX

```
#define CD_APPLET_SET_MY_DATA_RENDERER_HISTORY_TO_MAX
```

Set the history size of the Data Renderer of the applet's icon to the maximum size, that is to say 1 value per pixel.

5.3.2.85 CD_APPLET_MY_CONTAINER_IS_OPENGL

```
#define CD_APPLET_MY_CONTAINER_IS_OPENGL
```

Say if the applet's container currently supports OpenGL.

5.3.2.86 CD_APPLET_SET_DESKLET_RENDERER_WITH_DATA

Set a renderer to the applet's desklet and create myDrawContext. Call it at the beginning of init and also reload, to take into account the desklet's resizing.

Parameters

cRendererName	name of the renderer.
pConfig	configuration data for the renderer, or NULL.

5.3.2.87 CD_APPLET_SET_DESKLET_RENDERER

Set a renderer to the applet's desklet and create myDrawContext. Call it at the beginning of init and also reload, to take into account the desklet's resizing.

Parameters

cRendererName name of the renderer

5.3.2.88 CD_APPLET_SET_STATIC_DESKLET

```
#define CD_APPLET_SET_STATIC_DESKLET
```

Prevent the desklet from being rotated. Use it if your desklet has some static GtkWidget inside.

5.3.2.89 CD_APPLET_ALLOW_NO_CLICKABLE_DESKLET

```
#define CD_APPLET_ALLOW_NO_CLICKABLE_DESKLET
```

Prevent the desklet from being transparent to click. Use it if your desklet has no meaning in being unclickable.

5.3.2.90 CD_APPLET_DELETE_MY_ICONS_LIST

```
#define CD_APPLET_DELETE_MY_ICONS_LIST
```

Delete the list of icons of an applet (keep the subdock in dock mode).

5.3.2.91 CD_APPLET_REMOVE_ICON_FROM_MY_ICONS_LIST

```
\label{eq:con_red} \mbox{\tt \#define CD\_APPLET\_REMOVE\_ICON\_FROM\_MY\_ICONS\_LIST(} \\ plcon \ )
```

Remove an icon from the list of icons of an applet. The icon is destroyed and should not be used after that.

Parameters

Returns

whether the icon has been removed or not. In any case, the icon is freed.

5.3.2.92 CD APPLET DETACH ICON FROM MY ICONS LIST

```
\label{eq:con_rom_my_icons_list} \begin{tabular}{ll} \#define & CD_APPLET_DETACH_ICON_FROM_MY_ICONS_LIST ( \\ & pIcon \end{tabular} )
```

Detach an icon from the list of icons of an applet. The icon is not destroyed.

Parameters

plcon	the icon to remove.
-------	---------------------

Returns

whether the icon has been removed or not.

5.3.2.93 CD_APPLET_LOAD_MY_ICONS_LIST

Load a list of icons into an applet, with the given renderer for the sub-dock or the desklet. The icons will be loaded automatically in an idle process.

plconList	a list of icons. It will belong to the applet's container after that.
cDockRendererName	name of a renderer in case the applet is in dock mode.
cDeskletRendererName	name of a renderer in case the applet is in desklet mode.
pDeskletRendererConfig	possible configuration parameters for the desklet renderer.

5.3.2.94 CD_APPLET_ADD_ICON_IN_MY_ICONS_LIST

Add an icon into an applet. The view previously set by CD_APPLET_LOAD_MY_ICONS_LIST will be used. The icon will be loaded automatically in an idle process.

Parameters

plcon	an icon.
-------	----------

5.3.2.95 CD_APPLET_MY_ICONS_LIST

```
#define CD_APPLET_MY_ICONS_LIST
```

Get the list of icons of your applet. It is either the icons of your sub-dock or of your desklet.

5.3.2.96 CD_APPLET_MY_ICONS_LIST_CONTAINER

```
#define CD_APPLET_MY_ICONS_LIST_CONTAINER
```

Get the container of the icons of your applet. It is either your sub-dock or your desklet.

5.3.2.97 CD_APPLET_MANAGE_APPLICATION

Let your applet control the window of an external program, instead of the Taskbar.

Parameters

cApplicationClass	the class of the application you wish to control (in lower case), or NULL to stop controling
	any appli.

5.3.2.98 D_

Macro for gettext, similar to $_()$ et $N_()$, but with the domain of the applet. Surround all your strings with this, so that 'xgettext' can find them and automatically include them in the translation files.

5.3.3 Enumeration Type Documentation

5.3.3.1 CairoDockInfoDisplay

```
enum CairoDockInfoDisplay
```

type of possible display on a Icon.

Enumerator

CAIRO_DOCK_INFO_NONE	don't display anything.
CAIRO_DOCK_INFO_ON_ICON	display info on the icon (as quick-info).
CAIRO_DOCK_INFO_ON_LABEL	display on the label of the icon.

5.3.4 Function Documentation

5.3.4.1 cairo_dock_set_icon_surface_full()

Apply a surface on a context, with a zoom and a transparency factor. The context is cleared beforehand with the default icon background.

Parameters

plconContext	the drawing context; is not altered by the function.
pSurface	the surface to apply.
fScale	zoom factor.
fAlpha	transparency in [0,1].
plcon	the icon.

5.3.4.2 cairo_dock_set_image_on_icon()

Apply an image on the context of an icon, clearing it beforehand, and adding the reflect.

plconContext	the drawing context; is not altered by the function.
--------------	--

Parameters

clconName	name or path to an icon image.
plcon	the icon.
pContainer	the container of the icon.

Returns

TRUE if everything went smoothly.

5.3.4.3 cairo_dock_set_image_on_icon_with_default()

Apply an image on the context of an icon, clearing it beforehand, and adding the reflect. The image is searched in any possible locations, and the default image provided is used if the search was fruitless.

Parameters

plconContext	the drawing context; is not altered by the function.
clmage	name of an image to apply on the icon.
plcon	the icon.
pContainer	the container of the icon.
cDefaultImagePath	path to a default image.

5.3.4.4 cairo_dock_get_human_readable_size()

Convert a size in bytes into a readable format.

Parameters

iSizeInBytes	size in bytes.

Returns

a newly allocated string.

5.3.4.5 cairo_dock_play_sound()

```
{\tt void \ cairo\_dock\_play\_sound \ (}
```

```
const gchar * cSoundPath )
```

Play a sound, through Alsa or PulseAudio.

Parameters

cSoundPath path to an audio file.

5.4 cairo-dock-applet-manager.h File Reference

Macros

• #define GLDI_OBJECT_IS_APPLET_ICON(obj)

5.4.1 Detailed Description

This class handles the Applet Icons, which are icons used by module instances. Note: they are not UserIcon, because they are created by and belongs to a ModuleInstance, which is the actual object belonging to the user.

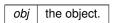
5.4.2 Macro Definition Documentation

5.4.2.1 GLDI OBJECT IS APPLET ICON

```
#define GLDI_OBJECT_IS_APPLET_ICON( obj )
```

Say if an object is a AppletIcon.

Parameters



Returns

TRUE if the object is a AppletIcon.

5.5 cairo-dock-applications-manager.h File Reference

Macros

• #define GLDI_OBJECT_IS_APPLI_ICON(obj)

Functions

- void cairo_dock_start_applications_manager (CairoDock *pDock)
- GList * cairo_dock_get_current_applis_list (void)
- Icon * cairo dock get current active icon (void)
- Icon * cairo_dock_get_appli_icon (GldiWindowActor *actor)
- void cairo_dock_foreach_appli_icon (GldilconFunc pFunction, gpointer pUserData)

5.5.1 Detailed Description

This class manages the list of icons representing a window, ie the Taskbar.

5.5.2 Macro Definition Documentation

5.5.2.1 GLDI_OBJECT_IS_APPLI_ICON

Say if an object is an Applilcon.

Parameters

```
obj the object.
```

Returns

TRUE if the object is a Applilcon.

5.5.3 Function Documentation

5.5.3.1 cairo_dock_start_applications_manager()

Start the applications manager. It will load all the applicions, and keep monitoring them. If enabled, it will insert them into the dock.

Parameters

```
pDock the main dock
```

5.5.3.2 cairo_dock_get_current_applis_list()

Get the list of appli-icons, including the icons not currently displayed in the dock. You can then order the list by z-order, name, etc.

Returns

a newly allocated list of appli-icons. You must free the list when you're done with it, but not the icons.

5.5.3.3 cairo_dock_get_current_active_icon()

Get the icon of the currently active window, if any.

Returns

the icon (maybe not inside a dock, maybe NULL).

5.5.3.4 cairo_dock_get_appli_icon()

Get the icon of a given window, if any.

Parameters

actor	the window actor
-------	------------------

Returns

the icon (maybe not inside a dock, maybe NULL).

5.5.3.5 cairo_dock_foreach_appli_icon()

Run a function on all Appli icons.

pFunction	function to be called
pUserData	data passed to the function.

5.6 cairo-dock-class-manager.h File Reference

Functions

- GldiAppInfo * gldi_app_info_new_from_commandline (const gchar *cCmdline, const gchar *cName, const gchar *cWorkingDir, gboolean bNeedsTerminal)
- void gldi app info launch action (GldiAppInfo *app, const gchar *cAction)
- void gldi_app_info_launch (GldiAppInfo *app, const gchar *const *uris)
- const gchar *const * gldi_app_info_get_desktop_actions (GldiAppInfo *app)
- gchar * gldi app info get desktop action name (GldiAppInfo *app, const gchar *cAction)
- const gchar ** gldi app info get supported types (GldiAppInfo *app)
- GldiAppInfo * gldi_app_info_from_desktop_app_info (GDesktopAppInfo *pDesktopAppInfo)
- void gldi launch desktop app info (GDesktopAppInfo *pDesktopAppInfo, const gchar *const *uris)
- void gldi_app_info_set_run_in_terminal (GldiAppInfo *app, gboolean bNeedsTerminal)
- void gldi_window_foreach_inhibitor (GldiWindowActor *actor, GldiIconRFunc callback, gpointer data)
- GldiAppInfo * cairo_dock_get_class_app_info (const gchar *cClass)
- gchar * cairo dock register class (const gchar *cSearchTerm)
- void cairo_dock_set_data_from_class (const gchar *cClass, lcon *plcon)

5.6.1 Detailed Description

This class handles the Class Icons, which are icons pointing to the sub-dock of a class.

This class handles the managment of the applications classes. Classes are used to group the windows of a same program, and to bind a launcher to the launched application.

5.6.2 Function Documentation

5.6.2.1 gldi_app_info_new_from_commandline()

Create a GldiAppInfo that can be used to start the given command.

cCmdline	Command to launch in the format of the XDG Desktop Entry specification.	
cName	Descriptive name that is suitable to be displayed to the user.	
cWorkingDir	cWorkingDir Optionally, a directory where the command should be launched.	
bNeedsTerminal	Whether the command should be launched in a terminal.	

Returns

the newly created GldiAppInfo or NULL if there was an error parsing cCmdline.

5.6.2.2 gldi_app_info_launch_action()

Launch one of the extra actions supported by this app.

Parameters

арр	a GldiAppInfo corresponding to an installed app.
cAction	one of the additional actions supported by the app. The must be one of the entries returneed by
	gldi_app_info_get_desktop_actions ().

Note: if the app supports DBus activation, it will be used instead of directly launching it. See here for more details: https://specifications.freedesktop.org/desktop-entry-spec/latest/dbus.html

Apps that do not support DBus activation might be launched directly as a child process of Cairo-Dock, or indirectly via the session manager if available (i.e. systemd on Linux).

5.6.2.3 gldi_app_info_launch()

Launch an application with an optional list of URIs or files to open.

Parameters

арр	a GldiAppInfo corresponding to an installed app or available command.	
uris	a NULL-terminated list of file names or URIs to provide as parameters or NULL.	

Note: if the app supports DBus activation, it will be used instead of directly launching it. See here for more details: https://specifications.freedesktop.org/desktop-entry-spec/latest/dbus.html

Apps that do not support DBus activation might be launched directly as a child process of Cairo-Dock, or indirectly via the session manager if available (i.e. systemd on Linux).

5.6.2.4 gldi app info get desktop actions()

Get a list of additional actions supported by this app. See $https://specifications.freedesktop. \leftarrow org/desktop-entry-spec/latest/extra-actions.html for a description of extra actions.$

Parameters

арр	a GldiAppInfo corresponding to an installed app.
-----	--

Returns

The list of additional action names as a NULL-terminated array or NULL if no additional actions are supported. The returned list and its contents are owned by the instance and should not be modified or freed by the caller.

5.6.2.5 gldi_app_info_get_desktop_action_name()

Get the name of an additional action supported by this app that is suitable to display to the user (i.e. translated whenever possible).

Parameters

арр	a GldiAppInfo corresponding to an installed app.	
	one of the additional actions supported by the app. The must be one of the entries returneed by gldi_app_info_get_desktop_actions ().	

Returns

the name of the action in a newly allocated string or NULL of cAction is invalid. The caller takes ownership of the return value and is responsible for freeing it.

5.6.2.6 gldi_app_info_get_supported_types()

Get the list of mime types that this app supports or NULL if unknown.

5.6.2.7 gldi_app_info_from_desktop_app_info()

Get a GldiAppInfo corresponding to the given GDesktopAppInfo. Also registers this app with the class manager if this has not been done before.

pDesktopAppInfo a GDesktopAppInfo representing an app installed on the system	pDesktopAppInfo	a GDesktopAppInfo representing an app installed on the system.
---	-----------------	--

Returns

a GldiAppInfo that can be used to launch this app or NULL if pAppInfo is invalid. A reference is added and the caller should call gldi_object_unref () when done using it.

5.6.2.8 gldi_launch_desktop_app_info()

Launch an application given by a GDesktopAppInfo with an optional list of URIs or files to open. The app will be registered with the class manager if it has not been seen yet.

Parameters

арр	a GDesktopAppInfo corresponding to an installed app.	
uris	a NULL-terminated list of file names or URIs to provide as parameters or NULL.	

Note: if the app supports DBus activation, it will be used instead of directly launching it. See here for more details: https://specifications.freedesktop.org/desktop-entry-spec/latest/dbus.html

Apps that do not support DBus activation might be launched directly as a child process of Cairo-Dock, or indirectly via the session manager if available (i.e. systemd on Linux).

5.6.2.9 gldi_app_info_set_run_in_terminal()

Override the setting whether this app needs to run in a terminal.

5.6.2.10 gldi_window_foreach_inhibitor()

Run a function on each Icon that inhibites a given window.

actor	the window actor
callback	function to be called
data	data passed to the callback

5.6.2.11 cairo_dock_get_class_app_info()

Get the app info associated with this class as a GldiAppInfo object.

Parameters

```
the class name to search for
```

Returns

The app info or NULL if unknown. The caller should call gldi_object_ref () on the return value if it wishes to hang on to it.

5.6.2.12 cairo dock register class2()

Register an application class from apps installed on the system or find an already registered one.

Parameters

cSearchTerm	query to search for among installed apps (see below for details).
cWmClass	StartupWMClass key from a custom launcher to add as an additional key to find this class later.
bCreateAlways	if TRUE, a new class is always created with cSearchTerm as its key.

Returns

the class ID in a newly allocated string (can be used to retrieve class properties later).

The cSearchTerm supplied to this function should be either:

- a desktop file path which is opened if it exists; if not, the file basename is searched among the desktop IDs of installed apps in a case-insensitive way, but no other heuristics is attempted
- a desktop file ID (i.e. a string not starting with "/" and ending with ".desktop"); it is searched among the desktop IDs of installed apps (case-insensitive); if not found, a heuristic search is also attempted
- a class name / app-id (from the StartupWMClass key of a launcher) or a command name; this is assumed to be already lowercase, and it is searched among installed apps using heuristics

Heuristics applied to search are the following:

• search among desktop file IDs by applying common suffices (org.gnome., org.kde., org.freedesktop)

- duplicating the name (e.g. "firefox" -> "firefox_firefox.desktop", required for Snap)
- searching the content of the StartupWMClass or the Exec key (if StartupWMClass is not present) in the .desktop file

The cWmClass parameter is not used for searching among installed apps, but it is added without any modification as an additional key for this class for later retrieval (so it is useful if the app uses a WMClass / app-id that is not possible to find with our heuristics).

The bCreateAlways controls whether cSearchTerm is always used to create a class:

- if bCreateAlways == FALSE, and no result is found, no class is created and NULL is returned
- if bCreateAlways == TRUE, and an app is found, a class is created as normal, but it is also ensured that cSearchTerm is added as a key for retrieval (in this case, the return value will be cSearchTerm)
- if bCreateAlways == TRUE, and no result is found, a "dummy" class is created and registered; this should be used as a last resort to ensure that a launcher has a class registered
- if blsDesktopFile == TRUE, cSearchTerm is assumed to be the name of a .desktop file and is processed accordingly (the .desktop suffix removed and converted to lowercase)

5.6.2.13 cairo_dock_register_class()

Register an application class from apps installed on the system.

Parameters

cSearchTerm query to search for among installed apps
--

Returns

the class ID in a newly allocated string (can be used to retrieve class properties later).

This function behaves as cairo dock register class2(cSearchTerm, NULL, FALSE).

5.6.2.14 cairo_dock_set_data_from_class()

Make a launcher derive from a class. Parameters of the icon that are not NULL are not overwritten.

cClass	the class name
plcon	the icon

5.7 cairo-dock-config.h File Reference

Functions

- · void cairo dock load current theme (void)
- gboolean cairo dock is loading (void)
- void cairo_dock_decrypt_string (const gchar *cEncryptedString, gchar **cDecryptedString)
- void cairo_dock_encrypt_string (const gchar *cDecryptedString, gchar **cEncryptedString)

5.7.1 Detailed Description

This class manages the configuration system of Cairo-Dock. Cairo-Dock and any items (icons, root docks, modules, etc) are configured by conf files. Conf files containes some information usable by the GUI manager to build a corresponding config panel and update the conf file automatically, which relieves you from this thankless task.

5.7.2 Function Documentation

5.7.2.1 cairo_dock_load_current_theme()

Load the current theme. This will (re)load all the parameters of Cairo-Dock and all the plug-ins, as if you just started the dock.

5.7.2.2 cairo_dock_is_loading()

Say if Cairo-Dock is loading.

Returns

TRUE if the global config is being loaded (this happens when a theme is loaded).

5.7.2.3 cairo_dock_decrypt_string()

Decrypt a string (uses DES-encryption from libcrypt).

cEncryptedString	the encrypted string.
cDecryptedString	the decrypted string.

5.7.2.4 cairo_dock_encrypt_string()

Encrypt a string (uses DES-encryption from libcrypt).

Parameters

cDecryptedString	the decrypted string.
cEncryptedString	the encrypted string.

5.8 cairo-dock-container.h File Reference

Data Structures

• struct GldiContainer

Definition of a Container, whom derive Dock, Desklet, Dialog and FlyingContainer.

· struct GldiContainerManagerBackend

Definition of the Container backend. It defines some operations that should be, but are not, provided by GTK.

Macros

#define CAIRO_CONTAINER(p)

Get the Container part of a pointer.

- #define CAIRO DOCK IS CONTAINER(obj)
- #define gldi_container_enable_drop(pContainer, pCallBack, data)

Enumerations

```
    enum GldiContainerNotifications {

 NOTIFICATION_BUILD_CONTAINER_MENU,
 NOTIFICATION BUILD ICON MENU,
 NOTIFICATION_CLICK_ICON,
 NOTIFICATION_DOUBLE_CLICK_ICON,
 NOTIFICATION_MIDDLE_CLICK_ICON,
 NOTIFICATION_SCROLL_ICON,
 NOTIFICATION_SMOOTH_SCROLL_ICON,
 NOTIFICATION_ENTER_ICON,
 NOTIFICATION START DRAG DATA,
 NOTIFICATION DROP DATA,
 NOTIFICATION_MOUSE_MOVED,
 NOTIFICATION_KEY_PRESSED,
 NOTIFICATION UPDATE,
 NOTIFICATION_UPDATE_SLOW,
 NOTIFICATION_RENDER,
 NOTIFICATION_DROP_DATA_SELECTION,
 NB_NOTIFICATIONS_CONTAINER }
    signals
```

enum CairoDockTypeHorizontality

Main orientation of a container.

Functions

- void gldi_container_reserve_space (GldiContainer *pContainer, int left, int right, int top, int bottom, int left_

 start_y, int left_end_y, int right_start_y, int right_end_y, int top_start_x, int top_end_x, int bottom_start_x, int bottom_end_x)
- gboolean **gldi_container_can_reserve_space** (int iNumScreen, gboolean bDirectionUp, gboolean bls← Horizontal)

determines if it is possible to reserve space for a dock on a given screen with a given orientation

- int gldi container get current desktop index (GldiContainer *pContainer)
- void gldi_container_move (GldiContainer *pContainer, int iNumDesktop, int iAbsolutePositionX, int i
 AbsolutePositionY)
- gboolean gldi_container_is_active (GldiContainer *pContainer)
- void gldi_container_present (GldiContainer *pContainer)
- void gldi_container_init_layer (GldiContainer *pContainer)
- gboolean gldi_container_is_wayland_backend ()
- void gldi container move resize dock (CairoDock *pDock)
- void gldi_container_set_screen (GldiContainer *pContainer, int iNumScreen)
- void gldi_container_move_to_rect (GldiContainer *pContainer, const GdkRectangle *rect, GdkGravity rect
 _anchor, GdkGravity window_anchor, GdkAnchorHints anchor_hints, gdouble rel_anchor_dx, gdouble rel_
 anchor_dy)
- void gldi_container_calculate_rect (const GldiContainer *pContainer, const lcon *pPointedlcon, Gdk
 — Rectangle *rect, GdkGravity *rect_anchor, GdkGravity *window_anchor, gboolean bSkipLabel)
- void gldi_container_calculate_aimed_point (const lcon *plcon, GtkWidget *pWidget, int w, int h, int iMargin← Position, gdouble fAlign, int *iAimedX, int *iAimedY)
- void gldi_container_calculate_aimed_point_base (int w, int h, int iMarginPosition, gdouble fAlign, int *i
 AimedX, int *iAimedY)
- void gldi_container_update_polling_screen_edge (void)

update looking at the screen edges (for any edge necessary)

gboolean gldi container can poll screen edge (void)

check whether we can detect the mouse hitting the screen edges (for the purpose of recalling hidden docks)

- void gldi_container_set_keep_below (GldiContainer *pContainer, gboolean bKeepBelow)
- gboolean gldi_container_dock_handle_leave (CairoDock *pDock, GdkEventCrossing *pEvent)
- void gldi container dock check if mouse inside linear (CairoDock *pDock)
- gboolean gldi container use new positioning code ()
- void cairo dock redraw container (GldiContainer *pContainer)
- void cairo_dock_redraw_container_area (GldiContainer *pContainer, GdkRectangle *pArea)
- void cairo_dock_redraw_icon (Icon *icon)
- GdkAtom gldi container icon dnd atom (void)

Get the GdkAtom used internally from dragging icons between docks.

- void gldi_container_notify_drop_data (GldiContainer *pContainer, gchar *cReceivedData, lcon *pPointed←
 lcon, double fOrder)
- GtkWidget * gldi_container_build_menu (GldiContainer *pContainer, Icon *icon)

5.8.1 Detailed Description

This class defines the Containers, that are classic or hardware accelerated animated windows, and exposes common functions, such as redrawing a part of a container or popping a menu on a container.

A Container is a rectangular on-screen located surface, has the notion of orientation, can hold external datas, monitors the mouse position, and has its own animation loop.

Docks, Desklets, Dialogs, and Flying-containers all derive from Containers.

5.8.2 Macro Definition Documentation

5.8.2.1 CAIRO_DOCK_IS_CONTAINER

Say if an object is a Container.

Parameters

obj the object.

Returns

TRUE if the object is a Container.

5.8.2.2 gldi_container_enable_drop

Enable a Container to accept drag-and-drops.

Parameters

pContainer	a container.
pCallBack	the function that will be called when some data is received.
data	data passed to the callback.

5.8.3 Enumeration Type Documentation

5.8.3.1 GldiContainerNotifications

enum GldiContainerNotifications

signals

Enumerator

NOTIFICATION_BUILD_CONTAINER_MENU	notification called when the menu is being built on a container. data : {Icon, GldiContainer, GtkMenu, gboolean*}
NOTIFICATION_BUILD_ICON_MENU	notification called when the menu is being built on an icon (possibly NULL). data : {Icon, GldiContainer, GtkMenu}
NOTIFICATION_CLICK_ICON	notification called when use clicks on an icon data : {Icon, CairoDock, int}

Enumerator

NOTIFICATION_DOUBLE_CLICK_ICON	notification called when the user double-clicks on an icon. data: {Icon, CairoDock}
NOTIFICATION_MIDDLE_CLICK_ICON	notification called when the user middle-clicks on an icon. data : {Icon, CairoDock}
NOTIFICATION_SCROLL_ICON	notification called when the user scrolls on a container. data: {Icon, CairoContainer, int iDirection, int bEmulated} Note: Icon is the icon under the mouse or can be NULL if the mouse is not over any icon. Currently it is only emitted on docks and desklets. iDirection is either GDK_SCROLL_UP or GDK_SCROLL_DOWN; bEmulated is TRUE if this event is synthetized based on a series of GDK_SCROLL_SMOOTH events received earlier (so it can be ignored if those were handled)
NOTIFICATION_SMOOTH_SCROLL_ICON	notification called when the user scrolls on a container and a GDK_SCROLL_SMOOTH event was delivered data : {Icon, CairoContainer, gdouble delta_x, gdouble delta_y}
NOTIFICATION_ENTER_ICON	notification called when the mouse enters an icon. data : {Icon, CairoDock, gboolean*}
NOTIFICATION_START_DRAG_DATA	notification called when the mouse enters a dock while dragging an object.
NOTIFICATION_DROP_DATA	notification called when something is dropped inside a container. data : {gchar*, lcon, double*, CairoDock} only called if the below NOTIFICATION_DROP_DATA_SELECTION was not handled
NOTIFICATION_MOUSE_MOVED	notification called when the mouse has moved inside a container.
NOTIFICATION_KEY_PRESSED	notification called when a key is pressed in a container that has the focus.
NOTIFICATION_UPDATE	notification called for the fast rendering loop on a container.
NOTIFICATION_UPDATE_SLOW	notification called for the slow rendering loop on a container.
NOTIFICATION_RENDER	notification called when a container is rendered.
NOTIFICATION_DROP_DATA_SELECTION	notification called when something is dropped, using the original data received data: GtkSelectionData*, Icon, double*, CairoDock, gboolean* bHandled

5.8.4 Function Documentation

5.8.4.1 gldi_container_reserve_space()

```
int top_end_x,
int bottom_start_x,
int bottom_end_x )
```

Reserve a space on the screen for a Container; other windows won't overlap this space when maximised.

Parameters

pContainer	the container
left	
right	
top	
bottom	
left_start_y	
left_end_y	
right_start_y	
right_end_y	
top_start_x	
top_end_x	
bottom_start←	
_X	
bottom_end←	
_X	

5.8.4.2 gldi_container_get_current_desktop_index()

Get the desktop and viewports a Container is placed on.

Parameters

pContainer	the container
------------	---------------

Returns

an index representing the desktop and viewports.

5.8.4.3 gldi_container_move()

Move a Container to a given desktop, viewport, and position (similar to gtk_window_move except that the position is defined on the whole desktop (made of all viewports); it's only useful if the Container is sticky).

Parameters

pContainer	the container
iNumDesktop	desktop number
iAbsolutePositionX	horizontal position on the virtual screen
iAbsolutePositionY	vertical position on the virtual screen

5.8.4.4 gldi_container_is_active()

```
gboolean gldi_container_is_active ( {\tt GldiContainer} \ *\ pContainer\ )
```

Tell if a Container is the current active window (similar to gtk_window_is_active but actually works).

Parameters

pContainer	the container
------------	---------------

Returns

TRUE if the Container is the current active window.

5.8.4.5 gldi_container_present()

Show a Container and make it take the focus (similar to gtk_window_present, but bypasses the WM focus steal prevention).

Parameters

pContainer	the container

5.8.4.6 gldi_container_init_layer()

Make this container a layer-shell surface. This can be used to properly position a dock on the screen on wlroots-based Wayland compositors

pContainer	the container

See here for more details: https://github.com/swaywm/wlr-protocols/blob/master/unstable/wlr-layexml

Below functions provide basic functionality to position the dock and place it above / below other windows.

5.8.4.7 gldi_container_is_wayland_backend()

```
gboolean gldi_container_is_wayland_backend ( )
```

determine if the display server is Wayland; this can be used by e.g. positioning code that needs to work differently under Wayland; ideally, code that needs to depend on this could be moved to the backends, but for now, that seems too complicated

5.8.4.8 gldi container move resize dock()

Move and resize a root dock. On X11, this uses gdk_window_move_resize (). On Wayland, this uses gdk_window ← _resize () and layer-shell anchors based on the dock's orientation.

5.8.4.9 gldi_container_set_screen()

Move the dock to the given screen – only used on Wayland. On X11, this is handled by adding an offset based on a global coordinate system in gldi_container_move_resize_dock ().

5.8.4.10 gldi_container_move_to_rect()

Wrapper around gdk_window_move_to_rect() that can be called anytime. Originally, gdk_window_move_to_ \leftarrow rect() can only be called after the container's window has been realized (has been associated with a Gdk \leftarrow Window). On the other hand, on Wayland with layer-shell, this needs to be set up before the container's window is mapped (it is not possible to move a popup after it was mapped). See https://developer.gnome. \leftarrow org/gdk3/stable/gdk3-Windows.html#gdk-window-move-to-rect for the description of the parameters used, except for the anchors which are interpreted as relative values compared to the width and height of the corresponding GdkWindow.

5.8.4.11 gldi_container_calculate_rect()

Calculate the parameters to pass to $gldi_container_move_to_rect()$ to poisition a child container on the given $p \leftarrow$ Container, pointing to pPointedIcon. This can be used for subdocks, dialogs and menus. The bSkipLabel parameter controls whether to leave space for an icon's label on a horizontal dock (should be TRUE for subdocks and dialogs, FALSE for menus).

5.8.4.12 gldi container calculate aimed point()

Calculate the aimed point of sub-containers (menus and dialogs), based on relative positioning. This can be used to point an arrow to the corresponding icon. Works for menus and dialogs. Parameters: plcon – the icon that is pointed by the newly placed container pWidget – GtkWidget of the new container w, h – with and height of the new container iMarginPosition – which side the margin (and the arrow) should be: 0: bottom; 1: top; 2: right; 3: left iAimedX, iAimedY – result is stored here: on Wayland, this is relative to the parent container (if exists, otherwise, relative to pWidget) on X11, this is in global coordinates

5.8.4.13 gldi_container_calculate_aimed_point_base()

```
void gldi_container_calculate_aimed_point_base (
    int w,
    int h,
    int iMarginPosition,
    gdouble fAlign,
    int * iAimedX,
    int * iAimedY )
```

Helper for the above, calculates position along the midpoint of the given edge.

5.8.4.14 gldi_container_set_keep_below()

Set to keep the container's GtkWindow below or above other windows. On X11, this calls gtk_window_set_keep
_below(); on Wayland, this tries to adjust the layer the window appears on.

5.8.4.15 gldi_container_dock_handle_leave()

extras required for tracking mouse position: backend-specific handling of leave / enter events on a dock on Wayland, these update iMousePositionType (this is the only place we can do this) the leave event handler should return if the mouse is really outside the dock

5.8.4.16 gldi_container_dock_check_if_mouse_inside_linear()

check if the mouse is inside the dock (basic case) and update iMousePositionType only supported on X11

5.8.4.17 gldi_container_use_new_positioning_code()

```
gboolean gldi_container_use_new_positioning_code ( )
```

return whether new code (using gdk_window_move_to_rect () and friends) should be used to position subdocks, menus and dialogs on Wayland, it always returns TRUE, on X11, it is based on the setting in System / X11_new rendering code

5.8.4.18 cairo_dock_redraw_container()

Clear and trigger the redraw of a Container.

Parameters

pContainer	the Container to redraw.
------------	--------------------------

5.8.4.19 cairo_dock_redraw_container_area()

Clear and trigger the redraw of a part of a container.

pContainer	the Container to redraw.
pArea	the zone to redraw.

5.8.4.20 cairo_dock_redraw_icon()

Clear and trigger the redraw of an Icon. The drawing is not done immediately, but when the expose event is received.

Parameters

```
icon l'icone a retracer.
```

5.8.4.21 gldi_container_notify_drop_data()

Notify everybody that a drop has just occured.

Parameters

cReceivedData	the dropped data.	
pPointedIcon	the icon which was pointed when the drop occured.	
fOrder	the order of the icon if the drop occured on it, or LAST_ORDER if the drop occured between	
	2 icons.	
pContainer	the container of the icon	

5.8.4.22 gldi_container_build_menu()

Build the main menu of a Container.

icon	the icon that was left-clicked, or NULL if none.
pContainer	the container that was left-clicked.

Returns

the menu.

5.9 cairo-dock-core.h File Reference

Functions

```
gchar * gldi_get_diag_msg (void)
```

5.9.1 Detailed Description

This class instanciates the different core managers.

5.9.2 Function Documentation

5.9.2.1 gldi_get_diag_msg()

Get some basic info about the features supported by Cairo-Dock and detected at runtime. Returns a dynamically allocated string that should be freed by the caller after using it.

5.10 cairo-dock-data-renderer-manager.h File Reference

Macros

• #define GLDI OBJECT IS DATA RENDERER(obj)

Functions

• CairoDockGLFont * cairo_dock_get_default_data_renderer_font (void)

5.10.1 Detailed Description

This class manages the list of available Data Renderers and their global ressources.

5.10.2 Macro Definition Documentation

5.10.2.1 GLDI_OBJECT_IS_DATA_RENDERER

```
#define GLDI_OBJECT_IS_DATA_RENDERER( obj \ )
```

Say if an object is a DataRenderer.

```
obj the object.
```

Returns

TRUE if the object is a DataRenderer.

5.10.3 Function Documentation

5.10.3.1 cairo_dock_get_default_data_renderer_font()

Get the default GLX font for Data Renderer. It can render strings of ASCII characters fastly. Don't destroy it.

Returns

the default GLX font

5.11 cairo-dock-data-renderer.h File Reference

Data Structures

• struct CairoDataRendererAttribute

Generic DataRenderer attributes structure. The attributes of any implementation of a DataRenderer will derive from this class.

struct _CairoDataRendererInterface

Interface of a DataRenderer.

• struct _CairoDataRenderer

Generic DataRenderer. Any implementation of a DataRenderer will derive from this class.

Macros

- #define cairo_dock_get_icon_data_renderer(plcon)
- #define CAIRO_DATA_RENDERER(r)
- #define cairo_data_renderer_get_data(pRenderer)
- #define CAIRO_DATA_RENDERER_ATTRIBUTE(pAttr)
- #define cairo_data_renderer_get_nb_values(pRenderer)
- #define cairo_data_renderer_get_min_value(pRenderer, i)
- #define cairo_data_renderer_get_max_value(pRenderer, i)
- #define cairo_data_renderer_get_value(pRenderer, i, t)
- #define cairo_data_renderer_get_current_value(pRenderer, i)
- #define cairo_data_renderer_get_previous_value(pRenderer, i)
- #define cairo_data_renderer_get_normalized_value(pRenderer, i, t)
- #define cairo_data_renderer_get_normalized_current_value(pRenderer, i)
- #define cairo data renderer get normalized previous value(pRenderer, i)
- #define cairo_data_renderer_get_normalized_current_value_with_latency(pRenderer, i)
- #define cairo_data_renderer_format_value_full(pRenderer, i, cBuffer)
- #define cairo_data_renderer_format_value(pRenderer, i)

Typedefs

• typedef void(* CairoDataRendererFormatValueFunc) (CairoDataRenderer *pRenderer, int iNumValue, gchar *cFormatBuffer, int iBufferLength, gpointer data)

Prototype of a function used to format the values in a short readable format (to be displayed as quick-info).

Functions

- CairoDockGLFont * cairo dock get default data renderer font (void)
- void cairo_dock_add_new_data_renderer_on_icon (Icon *pIcon, GldiContainer *pContainer, CairoDataRendererAttribute *pAttribute)
- void cairo_dock_render_new_data_on_icon (Icon *plcon, GldiContainer *pContainer, cairo_t *pCairo←
 Context, double *pNewValues)
- void cairo_dock_remove_data_renderer_on_icon (Icon *plcon)
- void cairo dock reload data renderer on icon (Icon *pIcon, GldiContainer *pContainer)
- void cairo dock resize data renderer history (Icon *pIcon, int iNewMemorySize)
- void cairo_dock_refresh_data_renderer (Icon *pIcon, GldiContainer *pContainer)

5.11.1 Detailed Description

This class defines the Data Renderer structure and API. A Data Renderer is a generic way to display a set of values on an icon. For instance you could represent the (cpu, memory, temperature) evolution over the time.

You bind a Data Renderer with /ref cairo_dock_add_new_data_renderer_on_icon. You can specify some attributes of the Data Renderer, especially the model that will be used; currently, 3 models are available: "gauge", "graph" and "progressbar".

You then feed the Data Renderer with /ref cairo_dock_render_new_data_on_icon, providing it the correct number of values.

To remove the Data Renderer from an icon, use /ref cairo_dock_remove_data_renderer_on_icon.

5.11.2 Macro Definition Documentation

5.11.2.1 cairo_dock_get_icon_data_renderer

Structure Access

5.11.2.2 CAIRO DATA RENDERER

Get the elementary part of a Data Renderer

r a high level data renderer

Returns

a CairoDataRenderer*

5.11.2.3 cairo_data_renderer_get_data

Get the data of a Data Renderer

Parameters

Returns

a CairoDataToRenderer*

5.11.2.4 CAIRO_DATA_RENDERER_ATTRIBUTE

```
\label{eq:define_cairo_data_renderer_attribute} \texttt{(} \\ pAttr \texttt{)}
```

Get the elementary part of a Data Renderer Attribute

Parameters

pAttr a high level data renderer attribute

Returns

a CairoDataRendererAttribute*

5.11.2.5 cairo_data_renderer_get_nb_values

```
\label{eq:cairo_data_renderer_get_nb_values} \mbox{$($$ pRenderer$ )$}
```

Get the number of values a DataRenderer displays. It's also the size of any of its arrays.

Parameters

Returns

number of values a DataRenderer displays

5.11.2.6 cairo_data_renderer_get_min_value

Data Access Get the lower range of the i-th value.

Parameters

pRenderer	a data renderer
i	the number of the value

Returns

a double

5.11.2.7 cairo_data_renderer_get_max_value

Get the upper range of the i-th value.

Parameters

pRenderer	a data renderer
i	the number of the value

Returns

a double

5.11.2.8 cairo_data_renderer_get_value

i, t)

Get the i-th value at the time t.

Parameters

pRenderer	a data renderer
i	the number of the value
t	the time (in number of steps)

Returns

a double

${\bf 5.11.2.9 \quad cairo_data_renderer_get_current_value}$

Get the current i-th value.

Parameters

pRenderer	a data renderer
i	the number of the value

Returns

a double

5.11.2.10 cairo_data_renderer_get_previous_value

Get the previous i-th value.

Parameters

pRenderer	a data renderer
i	the number of the value

Returns

a double

5.11.2.11 cairo_data_renderer_get_normalized_value

Get the normalized i-th value (between 0 and 1) at the time t.

Parameters

pRenderer	a data renderer
i	the number of the value
t	the time (in number of steps)

Returns

a double in [0,1]

5.11.2.12 cairo_data_renderer_get_normalized_current_value

Get the normalized current i-th value (between 0 and 1).

Parameters

pRenderer	a data renderer
i	the number of the value

Returns

a double in [0,1]

$5.11.2.13 \quad cairo_data_renderer_get_normalized_previous_value$

Get the normalized previous i-th value (between 0 and 1).

pRenderer	a data renderer
i	the number of the value

Returns

a double in [0,1]

5.11.2.14 cairo_data_renderer_get_normalized_current_value_with_latency

Get the normalized current i-th value (between 0 and 1), taking into account the latency of the smooth movement.

Parameters

pRenderer	a data renderer
i	the number of the value

Returns

a double in [0,1]

5.11.2.15 cairo_data_renderer_format_value_full

Data Format Write a value in a readable text format.

Parameters

pRenderer	a data renderer
i	the number of the value
cBuffer	a buffer where to write

5.11.2.16 cairo_data_renderer_format_value

Write a value in a readable text format in the renderer text buffer.

pRenderer	a data renderer
i	the number of the value

5.11.3 Function Documentation

5.11.3.1 cairo_dock_get_default_data_renderer_font()

Renderer manipulation Get the default GLX font for Data Renderer. It can render strings of digits from 0 to 9. Don't destroy it.

Returns

the default GLX font

5.11.3.2 cairo_dock_add_new_data_renderer_on_icon()

Add a Data Renderer on an icon. If the icon already has a Data Renderer, it is replaced by the new one, keeping the history alive.

Parameters

plcon	the icon
pContainer	the icon's container
pAttribute	attributes defining the Renderer

5.11.3.3 cairo_dock_render_new_data_on_icon()

Draw the current values associated with the Renderer on the icon.

plcon	the icon
pContainer	the icon's container
pCairoContext	a drawing context on the icon
pNewValues	a set a new values (must be of the size defined on the creation of the Renderer)

5.11.3.4 cairo_dock_remove_data_renderer_on_icon()

```
void cairo_dock_remove_data_renderer_on_icon ( {\tt Icon} \ * \ pIcon \ )
```

Remove the Data Renderer of an icon. All the allocated ressources will be freed.

Parameters

```
plcon the icon
```

5.11.3.5 cairo_dock_reload_data_renderer_on_icon()

Reload the Data Renderer of an icon, keeping the history and the attributes. This is intended to be used when the icon size changes.

Parameters

plcon	the icon
pContainer	the icon's container

5.11.3.6 cairo_dock_resize_data_renderer_history()

Resize the history of a DataRenderer of an icon, that is to say change the number of previous values that are remembered by the DataRenderer.

Parameters

plcon	the icon
iNewMemorySize	the new size of history

5.11.3.7 cairo_dock_refresh_data_renderer()

Redraw the DataRenderer of an icon, with the current values.

Parameters

plcon	the icon
pContainer	the icon's container

5.12 cairo-dock-dbus.h File Reference

Macros

#define cairo_dock_dbus_get_property_in_value(pDbusProxy, cInterface, cProperty, pProperties)
 deprecated...

Functions

- DBusGConnection * cairo_dock_get_session_connection (void)
- gboolean cairo_dock_register_service_name (const gchar *cServiceName)
- gboolean cairo_dock_dbus_is_enabled (void)
- DBusGProxy * cairo_dock_create_new_session_proxy (const char *name, const char *path, const char *interface)
- DBusGProxy * cairo_dock_create_new_system_proxy (const char *name, const char *path, const char *interface)
- gboolean cairo_dock_dbus_detect_application (const gchar *cName)
- gboolean cairo_dock_dbus_detect_system_application (const gchar *cName)
- gboolean cairo dock dbus get boolean (DBusGProxy *pDbusProxy, const gchar *cAccessor)
- guint cairo dock dbus get uinteger (DBusGProxy *pDbusProxy, const gchar *cAccessor)
- int cairo_dock_dbus_get_integer (DBusGProxy *pDbusProxy, const gchar *cAccessor)
- gchar * cairo dock dbus get string (DBusGProxy *pDbusProxy, const gchar *cAccessor)
- gchar ** cairo_dock_dbus_get_string_list (DBusGProxy *pDbusProxy, const gchar *cAccessor)
- guchar * cairo_dock_dbus_get_uchar (DBusGProxy *pDbusProxy, const gchar *cAccessor)
- void cairo_dock_dbus_call (DBusGProxy *pDbusProxy, const gchar *cCommand)

5.12.1 Detailed Description

This class defines numerous convenient functions to use DBus inside Cairo-Dock. DBus is used to communicate and interact with other running applications.

5.12.2 Function Documentation

5.12.2.1 cairo_dock_get_session_connection()

Get the connection to the 'session' Bus.

Returns

the connection to the bus.

5.12.2.2 cairo_dock_register_service_name()

Register a new service on the session bus.

cServiceName	name of the service.

Returns

TRUE in case of success, false otherwise.

5.12.2.3 cairo_dock_dbus_is_enabled()

Say if the bus is available or not.

Returns

TRUE if the connection to the bus has been established.

5.12.2.4 cairo_dock_create_new_session_proxy()

Create a new proxy for the 'session' connection.

Parameters

name	a name on the bus.
path	the path.
interface	name of the interface.

Returns

the newly created proxy. Use g_object_unref when your done with it.

5.12.2.5 cairo_dock_create_new_system_proxy()

Create a new proxy for the 'system' connection.

Parameters

name	a name on the bus.
path	the path.
interface	name of the interface.

Returns

the newly created proxy. Use g_object_unref when your done with it.

5.12.2.6 cairo_dock_dbus_detect_application()

```
{\tt gboolean~cairo\_dock\_dbus\_detect\_application~(} {\tt const~gchar~*~cName~)}
```

Detect if an application is currently running on Session bus.

Parameters

name of the application.	cName
--------------------------	-------

Returns

TRUE if the application is running and has a service on the bus.

5.12.2.7 cairo_dock_dbus_detect_system_application()

```
gboolean cairo_dock_dbus_detect_system_application ( {\tt const\ gchar}\ *\ c{\tt Name}\ )
```

Detect if an application is currently running on System bus.

Parameters

cName	name of the application.

Returns

TRUE if the application is running and has a service on the bus.

5.12.2.8 cairo_dock_dbus_get_boolean()

Get the value of a 'boolean' parameter on the bus.

pDbusProxy	proxy to the connection.
cAccessor	name of the accessor.

Returns

the value of the parameter.

5.12.2.9 cairo_dock_dbus_get_uinteger()

Get the value of an 'unsigned integer' parameter non signe on the bus.

Parameters

pDbusProxy	proxy to the connection.
cAccessor	name of the accessor.

Returns

the value of the parameter.

5.12.2.10 cairo_dock_dbus_get_integer()

Get the value of a 'integer' parameter on the bus.

Parameters

pDbusProxy	proxy to the connection.
cAccessor	name of the accessor.

Returns

the value of the parameter.

5.12.2.11 cairo_dock_dbus_get_string()

Get the value of a 'string' parameter on the bus.

Parameters

pDbusProxy	proxy to the connection.
cAccessor	name of the accessor.

Returns

the value of the parameter, to be freeed with g_free.

5.12.2.12 cairo_dock_dbus_get_string_list()

Get the value of a 'string list' parameter on the bus.

Parameters

pDbusProxy	proxy to the connection.
cAccessor	name of the accessor.

Returns

the value of the parameter, to be freeed with g_strfreev.

5.12.2.13 cairo_dock_dbus_get_uchar()

Get the value of an 'unsigned char' parameter on the bus.

Parameters

pDbusProxy	proxy to the connection.
cAccessor	name of the accessor.

Returns

the value of the parameter.

5.12.2.14 cairo_dock_dbus_call()

```
void cairo_dock_dbus_call (
```

```
DBusGProxy * pDbusProxy,
const gchar * cCommand )
```

Call a command on the bus.

Parameters

pDbusProxy	proxy to the connection.
cCommand	name of the commande.

5.13 cairo-dock-desklet-factory.h File Reference

Data Structures

• struct CairoDeskletDecoration

Decoration of a Desklet.

struct _CairoDeskletAttr

Configuration attributes of a Desklet.

struct CairoDeskletRenderer

Definition of a Desklet's renderer.

struct _CairoDesklet

Definition of a Desklet, which derives from a Container.

Macros

- #define GLDI_OBJECT_IS_DESKLET(obj)
- #define CAIRO_DESKLET(pContainer)
- #define gldi_desklet_add_interactive_widget(pDesklet, pInteractiveWidget)

Enumerations

```
    enum CairoDeskletVisibility {
        CAIRO_DESKLET_NORMAL,
        CAIRO_DESKLET_KEEP_ABOVE,
        CAIRO_DESKLET_KEEP_BELOW,
        CAIRO_DESKLET_ON_WIDGET_LAYER,
        CAIRO_DESKLET_RESERVE_SPACE }
```

Type of accessibility of a Desklet.

Functions

- CairoDesklet * gldi_desklet_new (CairoDeskletAttr *attr)
- void gldi_desklet_add_interactive_widget_with_margin (CairoDesklet *pDesklet, GtkWidget *pInteractive → Widget, int iRightMargin)
- void gldi_desklet_set_margin (CairoDesklet *pDesklet, int iRightMargin)
- GtkWidget * gldi_desklet_steal_interactive_widget (CairoDesklet *pDesklet)
- void gldi_desklet_hide (CairoDesklet *pDesklet)
- void gldi_desklet_show (CairoDesklet *pDesklet)
- void gldi_desklet_set_sticky (CairoDesklet *pDesklet, gboolean bSticky)
- void gldi_desklet_lock_position (CairoDesklet *pDesklet, gboolean bPositionLocked)

5.13.1 Detailed Description

This file is a part of the Cairo-Dock project Login: ctaf42@gmail.com Started on Sun Jan 27 18:35:38 2008 Cedric GESTES \$Id\$

Author(s)

- Cedric GESTES ctaf42@gmail.com
- Fabrice REY

Copyright: (C) 2008 Cedric GESTES E-mail: see the 'copyright' file.

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details. You should have received a copy of the GNU General Public License along with this program. If not, see http://www.gnu.org/licenses/. This class defines the Desklets, that are Widgets placed directly on your desktop. A Desklet is a container that holds 1 applet's icon plus an optionnal list of other icons and an optionnal GTK widget, has a decoration, suports several accessibility types (like Compiz Widget Layer), and has a renderer. Desklets can be resized or moved directly with the mouse, and can be rotated in the 3 directions of space. To actually create or destroy a Desklet, use the Desklet Manager's functoins in cairo-dock-desklet-manager.h.

5.13.2 Macro Definition Documentation

5.13.2.1 GLDI_OBJECT_IS_DESKLET

Say if an object is a Desklet.

Parameters

obj the object.

Returns

TRUE if the object is a Desklet.

5.13.2.2 CAIRO_DESKLET

Cast a Container into a Desklet.

Returns

the desklet.

5.13.2.3 gldi_desklet_add_interactive_widget

Add a GtkWidget to a desklet. Only 1 widget is allowed per desklet, if you need more, you can just use a Gtk—Container, and place as many widget as you want inside.

Parameters

pInteractiveWidget	the widget to add.
pDesklet	the desklet.

5.13.3 Enumeration Type Documentation

5.13.3.1 CairoDeskletVisibility

```
enum CairoDeskletVisibility
```

Type of accessibility of a Desklet.

Enumerator

CAIRO_DESKLET_NORMAL	Normal, like normal window.
CAIRO_DESKLET_KEEP_ABOVE	always above
CAIRO_DESKLET_KEEP_BELOW	always below
CAIRO_DESKLET_ON_WIDGET_LAYER	on the Compiz widget layer
CAIRO_DESKLET_RESERVE_SPACE	prevent other windows form overlapping it

5.13.4 Function Documentation

5.13.4.1 gldi_desklet_new()

Create a new desklet.

Parameters

attr	the attributes of the desklet
------	-------------------------------

Returns

the desklet.

5.13.4.2 gldi_desklet_add_interactive_widget_with_margin()

Add a GtkWidget to a desklet. Only 1 widget is allowed per desklet, if you need more, you can just use a Gtk← Container, and place as many widget as you want inside.

Parameters

pInteractiveWidget	the widget to add.	
pDesklet	the desklet.	
iRightMargin	Margin right margin, in pixels, useful to keep a clickable zone on the desklet, or 0 if you don't want a margin.	

5.13.4.3 gldi_desklet_set_margin()

Set the right margin of a desklet. This is useful to keep a clickable zone on the desklet when you put a GTK widget inside.

Parameters

pDesklet	the desklet.
iRightMargin	right margin, in pixels.

5.13.4.4 gldi_desklet_steal_interactive_widget()

Detach the interactive widget from a desklet. The widget can then be placed anywhere after that. You have to unref it after you placed it into a container, or to destroy it.

pDesklet	the desklet with an interactive widget.	
----------	---	--

Returns

the widget.

5.13.4.5 gldi_desklet_hide()

Hide a desklet.

Parameters

pDesklet the deskle

5.13.4.6 gldi_desklet_show()

Show a desklet, and give it the focus.

Parameters

pDesklet	the desklet.
----------	--------------

5.13.4.7 gldi_desklet_set_accessibility()

Set a desklet's accessibility. For Widget Layer, the WM must support it and the correct rule must be set up in the WM (for instance for Compiz : class=Cairo-dock & type=utility). The function automatically sets up the rule for Compiz (if Dbus is activated).

pDesklet	the desklet.
iVisibility	the new accessibility.
bSaveState	whether to save the new state in the conf file.

5.13.4.8 gldi_desklet_set_sticky()

Set a desklet sticky (i.e. visible on all desktops), or not. In case the desklet is set unsticky, its current desktop/viewport is saved.

Parameters

pDesklet	the desklet.
bSticky	whether the desklet should be sticky or not.

5.13.4.9 gldi_desklet_lock_position()

Lock the position of a desklet. This makes the desklet impossible to rotate, drag with the mouse, or retach to the dock. The new state is saved in conf.

Parameters

pDesklet	the desklet.
bPositionLocked	whether the position should be locked or not.

5.14 cairo-dock-desklet-manager.h File Reference

Typedefs

typedef gboolean(* GldiDeskletForeachFunc) (CairoDesklet *pDesklet, gpointer data)
 Definition of a function that runs through all desklets.

Enumerations

```
    enum CairoDeskletNotifications {
        NOTIFICATION_ENTER_DESKLET,
        NOTIFICATION_LEAVE_DESKLET,
        NOTIFICATION_CONFIGURE_DESKLET,
        NB_NOTIFICATIONS_DESKLET }
        signals
```

Functions

- CairoDesklet * gldi_desklets_foreach (GldiDeskletForeachFunc pCallback, gpointer user_data)
- · void gldi desklets foreach icons (GldilconFunc pFunction, gpointer pUserData)
- void gldi_desklets_set_visible (gboolean bOnWidgetLayerToo)
- void gldi_desklets_set_visibility_to_default (void)

5.14.1 Detailed Description

This file is a part of the Cairo-Dock project

Login: ctaf42@gmail.com Started on Sun Jan 27 18:35:38 2008 Cedric GESTES \$Id\$

Author(s)

- Cedric GESTES ctaf42@gmail.com
- · Fabrice REY

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This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details. You should have received a copy of the GNU General Public License along with this program. If not, see http://www.gnu.org/licenses/. This class manages the Desklets, that are Widgets placed directly on your desktop. A Desklet is a container that holds 1 applet's icon plus an optionnal list of other icons and an optionnal GTK widget, has a decoration, suports several accessibility types (like Compiz Widget Layer), and has a renderer. Desklets can be resized or moved directly with the mouse, and can be rotated in the 3 directions of space.

5.14.2 Enumeration Type Documentation

5.14.2.1 CairoDeskletNotifications

```
enum CairoDeskletNotifications
```

signals

Enumerator

NOTIFICATION_ENTER_DESKLET	notification called when the mouse enters a desklet.
NOTIFICATION_LEAVE_DESKLET	notification called when the mouse leave a desklet.
NOTIFICATION_CONFIGURE_DESKLET	notification called when a desklet is resized or moved on the screen.

5.14.3 Function Documentation

5.14.3.1 gldi_desklets_foreach()

Run a function through all the desklets. If the callback returns TRUE, then the loop ends and the function returns the current desklet.

Parameters

pCallback	function to be called on eash desklet. If it returns TRUE, the loop ends and the function returns	
	the current desklet.	
user_data	data to be passed to the callback.	

Returns

the found desklet, or NULL.

5.14.3.2 gldi_desklets_foreach_icons()

Execute an action on all icons being inside a desklet.

Parameters

pFunction	the action.
pUserData	data passed to the callback.

5.14.3.3 gldi_desklets_set_visible()

Make all desklets visible. Their accessibility is set to CAIRO_DESKLET_NORMAL.

Parameters

5.14.3.4 gldi_desklets_set_visibility_to_default()

Reset the desklets accessibility to the state defined in their conf file.

5.15 cairo-dock-desktop-file-db.h File Reference

Functions

- void gldi_desktop_file_db_init (void)
- void gldi_desktop_file_db_stop (void)
- GDesktopAppInfo * gldi_desktop_file_db_lookup (const char *class, gboolean bOnlyDesktopID)

5.15.1 Detailed Description

This file is a part of the Cairo-Dock project

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This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details. You should have received a copy of the GNU General Public License along with this program. If not, see http://www.gnu.org/licenses/. Functions to maintain and query a database of all apps that are installed on a system.

5.15.2 Function Documentation

5.15.2.1 gldi_desktop_file_db_init()

Start the desktop file DB manager. This will run a background thread to populate the DB with all apps installed on the system.

5.15.2.2 gldi_desktop_file_db_stop()

Stop the desktop file DB manager. This will delete all apps in the DB and free all memory.

5.15.2.3 gldi_desktop_file_db_lookup()

Try to look up an installed app. This function can block the first time it's called if the DB has not been fully populated yet.

class	Dektop file ID, class or app-id of an app to look up (matching is based on the basename of its .desktop file, and the content of the StartupWMClass and Exec keys in it).
bOnlyDesktopID	if TRUE, only the .desktop file name is used for matching (can be useful if looking for a known .desktop file).

Returns

GDesktopAppInfo corresponding to the app if found. The return value is owned by the DB, the caller should call g object ref () on it if it wants to keep it.

5.16 cairo-dock-desktop-manager.h File Reference

Data Structures

• struct _GldiDesktopManagerBackend

Definition of the Desktop Manager backend.

· struct _GldiDesktopBackground

Definition of a Desktop Background Buffer. It has a reference count so that it can be shared across all the lib.

Enumerations

```
    enum CairoDesktopNotifications {
        NOTIFICATION_DESKTOP_CHANGED,
        NOTIFICATION_DESKTOP_GEOMETRY_CHANGED,
        NOTIFICATION_DESKTOP_VISIBILITY_CHANGED,
        NOTIFICATION_KBD_STATE_CHANGED,
        NOTIFICATION_DESKTOP_NAMES_CHANGED,
        NOTIFICATION_DESKTOP_WALLPAPER_CHANGED,
        NOTIFICATION_SHORTKEY_PRESSED,
        NOTIFICATION_KEYMAP_CHANGED,
        NOTIFICATION_MENU_REQUEST,
        NOTIFICATION_DESKTOP_MONITOR_ADDED,
        NOTIFICATION_DESKTOP_MONITOR_REMOVED,
        NB_NOTIFICATIONS_DESKTOP}
        signals
```

Functions

- void gldi_desktop_manager_register_backend (GldiDesktopManagerBackend *pBackend, const gchar *name)
- gboolean gldi_desktop_present_class (const gchar *cClass, GldiContainer *pContainer)
- gboolean gldi desktop present windows (GldiContainer *pContainer)
- gboolean gldi_desktop_present_desktops (void)
- gboolean gldi_desktop_show_widget_layer (void)
- gboolean gldi desktop set on widget layer (GldiContainer *pContainer, gboolean bOnWidgetLayer)
- · void gldi desktop add workspace (void)
- void gldi desktop remove last workspace (void)
- void gldi desktop get current (int *iCurrentDesktop, int *iCurrentViewportX, int *iCurrentViewportY)
- GdkMonitor *const * **gldi_desktop_get_monitors** (int *iNumMonitors)

Get the list of monitors currently managed – caller should not modify the GdkMonitor* pointers stored here.

5.16.1 Detailed Description

This class manages the desktop: screen geometry, current desktop/viewport, etc, and notifies for any change on it.

5.16.2 Enumeration Type Documentation

5.16.2.1 CairoDesktopNotifications

enum CairoDesktopNotifications

signals

Enumerator

NOTIFICATION_DESKTOP_CHANGED	notification called when the user switches to another desktop/viewport. data : NULL
NOTIFICATION_DESKTOP_GEOMETRY_↔ CHANGED	notification called when the geometry of the desktop has changed (number of viewports/desktops, dimensions). data: resolution-has-changed
NOTIFICATION_DESKTOP_VISIBILITY_CHANGED	notification called when the desktop is shown/hidden. data: NULL
NOTIFICATION_KBD_STATE_CHANGED	notification called when the state of the keyboard has changed.
NOTIFICATION_DESKTOP_NAMES_CHANGED	notification called when the names of the desktops have changed
NOTIFICATION_DESKTOP_WALLPAPER_← CHANGED	notification called when the wallpaper has changed
NOTIFICATION_SHORTKEY_PRESSED	notification called when a shortkey that has been registered by the dock is pressed. data: keycode, modifiers
NOTIFICATION_KEYMAP_CHANGED	notification called when the keymap changed, before and after updating it. data: updated
NOTIFICATION_MENU_REQUEST	notification when the user requests the desktop menu to be shown
NOTIFICATION_DESKTOP_MONITOR_ADDED	notification called when a new monitor was added, data : the GdkMonitor added
NOTIFICATION_DESKTOP_MONITOR_REMOVED	notification called when a monitor was removed, data : the GdkMonitor removed

5.16.3 Function Documentation

5.16.3.1 gldi_desktop_manager_register_backend()

Register a Desktop Manager backend. NULL functions do not overwrite existing ones.

Parameters

```
pBackend a Desktop Manager backend; can be freeed after.
```

5.16.3.2 gldi_desktop_present_class()

Present all the windows of a given class.

cClass	the class.
pContainer	currently active container which might need to be unfocused

Returns

TRUE on success

5.16.3.3 gldi_desktop_present_windows()

Present all the windows of the current desktop.

Returns

TRUE on success

5.16.3.4 gldi_desktop_present_desktops()

```
\begin{tabular}{ll} $\tt gboolean gldi\_desktop\_present\_desktops ( \\ &\tt void ) \end{tabular}
```

Present all the desktops.

Returns

TRUE on success

5.16.3.5 gldi_desktop_show_widget_layer()

```
\begin{tabular}{ll} $\tt gboolean gldi\_desktop\_show\_widget\_layer ( \\ &\tt void ) \end{tabular}
```

Show the Widget Layer.

Returns

TRUE on success

5.16.3.6 gldi_desktop_set_on_widget_layer()

Set a Container to be displayed on the Widget Layer.

Parameters

pContainer	a container.
bOnWidgetLayer	whether to set or unset the option.

Returns

TRUE on success

5.16.3.7 gldi_desktop_add_workspace()

Adds a new workspace, desktop or viewport in an implementation-defined manner. Typically this can mean adding one more workspace / desktop as the "last" one. On X11, this will resize the desktop geometry, and could result in adding multiple viewports. Might not suceed, depending on the capabilities of the backend (NOTIFICATION_
DESKTOP GEOMETRY CHANGED will be emitted if successful).

5.16.3.8 gldi_desktop_remove_last_workspace()

Remove the "last" workspace desktop or viewport, according to the internal ordering of workspaces. The actual number of workspaces can be > 1, depending on the backend (on X11, if viewports are arranged in a square). Might not suceed, depending on the capabilities of the backend (NOTIFICATION_DESKTOP_GEOMETRY_CHANGED will be emitted if successful).

5.16.3.9 gldi_desktop_get_current()

Get the current workspace (desktop and viewport).

iCurrentDesktop	will be filled with the current desktop number
<i>iCurrentViewportX</i>	will be filled with the current horizontal viewport number
iCurrentViewportY	will be filled with the current vertical viewport number

5.17 cairo-dock-dialog-factory.h File Reference

Data Structures

struct CairoDialogRenderer

Definition of a Dialog renderer. It draws the inside of the Dialog.

struct CairoDialogDecorator

Definition of a Dialog/Menu decorator. It draws the frame of the Dialog/Menu.

struct CairoDialog

Definition of a Dialog.

Macros

- #define CAIRO DOCK IS DIALOG(obj)
- #define CAIRO DIALOG(pContainer)

Functions

- CairoDialog * gldi_dialog_new (CairoDialogAttr *pAttribute)
- CairoDialog * gldi_dialog_show (const gchar *cText, Icon *pIcon, GldiContainer *pContainer, double fTime
 Length, const gchar *cIconPath, GtkWidget *pInteractiveWidget, CairoDockActionOnAnswerFunc pAction
 Func, gpointer data, GFreeFunc pFreeDataFunc)
- CairoDialog * gldi_dialog_show_temporary_with_icon_printf (const gchar *cText, lcon *plcon, GldiContainer *pContainer, double fTimeLength, const gchar *clconPath,...) G_GNUC_PRINTF(1
- CairoDialog CairoDialog * gldi_dialog_show_temporary_with_icon (const gchar *cText, lcon *plcon, GldiContainer *pContainer, double fTimeLength, const gchar *clconPath)
- CairoDialog * gldi_dialog_show_temporary (const gchar *cText, lcon *plcon, GldiContainer *pContainer, double fTimeLength)
- CairoDialog * gldi_dialog_show_temporary_with_default_icon (const gchar *cText, lcon *plcon, GldiContainer *pContainer, double fTimeLength)
- CairoDialog * gldi_dialog_show_with_question (const gchar *cText, lcon *plcon, GldiContainer *pContainer, const gchar *clconPath, CairoDockActionOnAnswerFunc pActionFunc, gpointer data, GFreeFunc pFree← DataFunc)
- CairoDialog * gldi_dialog_show_with_entry (const gchar *cText, Icon *pIcon, GldiContainer *pContainer, const gchar *cIconPath, const gchar *cTextForEntry, CairoDockActionOnAnswerFunc pActionFunc, gpointer data, GFreeFunc pFreeDataFunc)
- CairoDialog * gldi_dialog_show_with_value (const gchar *cText, Icon *pIcon, GldiContainer *pContainer, const gchar *cIconPath, double fValue, double fMaxValue, CairoDockActionOnAnswerFunc pActionFunc, gpointer data, GFreeFunc pFreeDataFunc)
- CairoDialog * gldi dialog show general message (const gchar *cMessage, double fTimeLength)
- int gldi_dialog_show_and_wait (const gchar *cText, lcon *plcon, GldiContainer *pContainer, const gchar *cIconPath, GtkWidget *pInteractiveWidget)
- GtkWidget * gldi_dialog_steal_interactive_widget (CairoDialog *pDialog)

5.17.1 Detailed Description

This class defines the Dialog container, useful to bring interaction with the user. A Dialog is a container that points to an icon. It contains the following optionnal components:

- · a message
- · an image on its left
- · a interaction widget below it
- · some buttons at the bottom.

A Dialog is constructed with a set of attributes grouped inside a _CairoDialogAttribute. It has a Decorator that draws its shape, and a Renderer that draws its content.

To add buttons, you specify a list of images in the attributes. "ok" and "cancel" are key words for the default ok/cancel buttons. You also has to provide a callback function that will be called on click. When the user clicks on a button, the function is called with the number of the clicked button, counted from 0. -1 and -2 are set if the user pushed the Return or Escape keys. The dialog is unreferenced after the user's answer, so *you have to reference the dialog in the callback if you want to keep the dialog alive*.

This class defines various helper functions to build a Dialog.

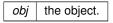
Note that Dialogs and Menus share the same rendering.

5.17.2 Macro Definition Documentation

5.17.2.1 CAIRO DOCK IS DIALOG

Say if an object is a Dialog.

Parameters



Returns

TRUE if the object is a dialog.

5.17.2.2 CAIRO_DIALOG

Cast a Container into a Dialog.

pContainer	the container.
------------	----------------

Returns

the dialog.

5.17.3 Function Documentation

5.17.3.1 gldi_dialog_new()

Create a new dialog.

Parameters

pAttribute	attributes of the dialog.
------------	---------------------------

Returns

the dialog.

5.17.3.2 gldi_dialog_show()

Pop up a dialog with a message, a widget, 2 buttons ok/cancel and an icon, all optionnal.

cText	the message to display.
plcon	the icon that will hold the dialog.
pContainer	the container of the icon.
fTimeLength	the duration of the dialog (in ms), or 0 for an unlimited dialog.
clconPath	path to an icon to display in the margin.
pInteractiveWidget	a GTK widget; It is destroyed with the dialog. Use 'cairo_dock_steal_interactive_widget_from_dialog()' before if you want to keep it alive.
pActionFunc	the callback called when the user makes its choice. NULL means there will be no buttons.
Generated by Doxygen	data passed as a parameter of the callback.
pFreeDataFunc	function used to free the data when the dialog is destroyed, or NULL if unnecessary.

Returns

the newly created dialog.

5.17.3.3 gldi_dialog_show_temporary_with_icon_printf()

Pop up a dialog with a message, and a limited duration, and an icon in the margin.

Parameters

cText	the message to display.
plcon	the icon that will hold the dialog.
pContainer	the container of the icon.
fTimeLength	the duration of the dialog (in ms), or 0 for an unlimited dialog.
clconPath	path to an icon.
	arguments to insert in the message, in a printf way.

Returns

the newly created dialog.

5.17.3.4 gldi_dialog_show_temporary_with_icon()

Pop up a dialog with a message, and a limited duration, and an icon in the margin.

cText	the message to display.
plcon	the icon that will hold the dialog.
pContainer	the container of the icon.
fTimeLength	the duration of the dialog (in ms), or 0 for an unlimited dialog.
clconPath	path to an icon.

Returns

the newly created dialog.

5.17.3.5 gldi_dialog_show_temporary()

Pop up a dialog with a message, and a limited duration, with no icon.

Parameters

cText	the message to display.
plcon	the icon that will hold the dialog.
pContainer	the container of the icon.
fTimeLength	the duration of the dialog (in ms), or 0 for an unlimited dialog.

Returns

the newly created dialog et visible, avec une reference a 1.

5.17.3.6 gldi_dialog_show_temporary_with_default_icon()

Pop up a dialog with a message, and a limited duration, and a default icon.

Parameters

cText	the format of the message to display.
plcon	the icon that will hold the dialog.
pContainer	the container of the icon.
fTimeLength	the duration of the dialog (in ms), or 0 for an unlimited dialog.

Returns

the newly created dialog et visible, avec une reference a 1.

5.17.3.7 gldi_dialog_show_with_question()

```
Icon * pIcon,
GldiContainer * pContainer,
const gchar * cIconPath,
CairoDockActionOnAnswerFunc pActionFunc,
gpointer data,
GFreeFunc pFreeDataFunc )
```

Pop up a dialog with a question and 2 buttons ok/cancel. The dialog is unreferenced after the user has answered, so if you want to keep it alive, you have to reference it in the callback.

Parameters

cText	the message to display.
plcon	the icon that will hold the dialog.
pContainer	the container of the icon.
clconPath	path to an icon to display in the margin.
pActionFunc	the callback.
data	data passed as a parameter of the callback.
pFreeDataFunc	function used to free the data.

Returns

the newly created dialog et visible, avec une reference a 1.

5.17.3.8 gldi_dialog_show_with_entry()

Pop up a dialog with a text entry and 2 buttons ok/cancel. The dialog is unreferenced after the user has answered, so if you want to keep it alive, you have to reference it in the callback.

cText	the message to display.
plcon	the icon that will hold the dialog.
pContainer	the container of the icon.
clconPath	path to an icon to display in the margin.
cTextForEntry	text to display initially in the entry.
pActionFunc	the callback.
data	data passed as a parameter of the callback.
pFreeDataFunc	function used to free the data.

Returns

the newly created dialog.

5.17.3.9 gldi_dialog_show_with_value()

Pop up a dialog with an horizontal scale between 0 and fMaxValue and 2 buttons ok/cancel. The dialog is unreferenced after the user has answered, so if you want to keep it alive, you have to reference it in the callback.

Parameters

cText	the message to display.
plcon	the icon that will hold the dialog.
pContainer	the container of the icon.
clconPath	path to an icon to display in the margin.
fValue	initial value of the scale.
fMaxValue	maximum value of the scale.
pActionFunc	the callback.
data	data passed as a parameter of the callback.
pFreeDataFunc	function used to free the data.

Returns

the newly created dialog.

5.17.3.10 gldi_dialog_show_general_message()

Pop up a dialog, pointing on "the best icon possible". This allows to display a general message.

Parameters

cMessage	the message.
fTimeLength	life time of the dialog, in ms.

Returns

the newly created dialog, visible and with a reference of 1.

5.17.3.11 gldi_dialog_show_and_wait()

Pop up a dialog with GTK widget and 2 buttons ok/cancel, and block until the user makes its choice.

Parameters

cText	the message to display.
plcon	the icon that will hold the dialog.
pContainer	the container of the icon.
clconPath	path to an icon to display in the margin.
pInteractiveWidget	an interactive widget.

Returns

the number of the button that was clicked: 0 or -1 for OK, 1 or -2 for CANCEL, -3 if the dialog has been destroyed before. The dialog is destroyed after the user choosed, but the interactive widget is not destroyed, which allows to retrieve the changes made by the user. Destroy it with 'gtk_widget_destroy' when you're done with it.

5.17.3.12 gldi_dialog_steal_interactive_widget()

Detach the interactive widget from a dialog. The widget can then be placed anywhere after that. You have to unref it after you placed it into a container, or to destroy it.

Parameters

pDialog	the desklet with an interactive widget.

Returns

the widget.

5.18 cairo-dock-dialog-manager.h File Reference

Typedefs

• typedef void(* CairoDockActionOnAnswerFunc) (int iClickedButton, GtkWidget *pInteractiveWidget, gpointer data, CairoDialog *pDialog)

Definition of a generic callback of a dialog, called when the user clicks on a button. Buttons are numbered from 0, -1 means 'Return' and -2 means 'Escape'.

Enumerations

 enum CairoDialogNotifications signals

Functions

- void gldi_dialogs_remove_on_icon (lcon *icon)
- void gldi_dialog_hide (CairoDialog *pDialog)
- void gldi_dialog_unhide (CairoDialog *pDialog)
- void gldi_dialog_toggle_visibility (CairoDialog *pDialog)
- void gldi dialog leave (CairoDialog *pDialog)

5.18.1 Detailed Description

This class manages the Dialogs, that are useful to bring interaction with the user.

With dialogs, you can pop-up messages, ask for question, etc. Any GTK widget can be embedded inside a dialog, giving you any possible interaction with the user.

The most generic way to build a Dialog is to fill a CairoDialogAttr and pass it to gldi dialog new.

But in most of case, you can just use one of the following convenient functions, that will do the job for you.

- to show a message, you can use gldi_dialog_show_temporary_with_icon
- to ask the user a choice, a value or a text, you can use gldi_dialog_show_with_question, gldi_dialog_show_with_value or gldi_dialog_show_with_entry.
- if you want to pop up only 1 dialog at once on a given icon, use gldi_dialogs_remove_on_icon before you pop up your dialog.

5.18.2 Function Documentation

5.18.2.1 gldi dialogs remove on icon()

```
void gldi_dialogs_remove_on_icon ( Icon \, * \, icon \, )
```

Remove the dialogs attached to an icon.

Parameters

icon the icon you want to delete all dialogs from.

5.18.2.2 gldi_dialog_hide()

Hide a dialog.

Parameters

5.18.2.3 gldi_dialog_unhide()

```
void gldi_dialog_unhide ( {\tt CairoDialog} \ * \ p{\tt Dialog} \ )
```

Show a dialog and give it focus.

Parameters

pDialog	the dialog.
---------	-------------

5.18.2.4 gldi_dialog_toggle_visibility()

```
void gldi_dialog_toggle_visibility ( {\tt CairoDialog} \ * \ p {\tt Dialog} \ )
```

Toggle the visibility of a dialog.

Parameters

```
pDialog the dialog.
```

5.18.2.5 gldi_dialog_leave()

Notify the dialog's dock that the dialog is hidden or destroyed. This generates a "leave" event for the mouse and "unfreezes" the dock as well.

Parameters

pDialog	the dialog being hidden or destroyed.
1	

5.19 cairo-dock-dock-facility.h File Reference

Macros

• #define cairo_dock_get_available_docks_for_icon(plcon)

Functions

- void cairo dock update dock size (CairoDock *pDock)
- Icon * cairo dock calculate dock icons (CairoDock *pDock)
- void cairo_dock_show_subdock (Icon *pPointedIcon, CairoDock *pParentDock)
- GList * cairo_dock_get_available_docks (CairoDock *pParentDock, CairoDock *pSubDock)
- void cairo_dock_calculate_icons_positions_at_rest_linear (GList *plconList, double fFlatDockWidth)
- Icon * cairo_dock_apply_wave_effect_linear (CairoDock *pDock)
- double cairo dock get current dock width linear (CairoDock *pDock)
- void cairo dock check if mouse inside linear (CairoDock *pDock)
- void cairo_dock_check_can_drop_linear (CairoDock *pDock)
- GList * cairo_dock_get_first_drawn_element_linear (GList *icons)

5.19.1 Detailed Description

This class contains functions to manipulate docks. Some functions are dedicated to linear docks, that is to say when the icon's position can be defined by 1 coordinate inside a non looped interval; it doesn't mean they have to be drawn on a straight line though, see the Curve view.

5.19.2 Macro Definition Documentation

5.19.2.1 cairo_dock_get_available_docks_for_icon

Get a list of available docks where an user icon can be placed. Its current parent dock is excluded, as well as its sub-dock (if any) and its children.

Parameters

the icon

Returns

a list of CairoDock*

5.19.3 Function Documentation

5.19.3.1 cairo_dock_update_dock_size()

Compute the maximum size of a dock, and resize it if necessary. It takes into account the size limit, and moves the dock so that it stays centered. Also updates the dock's background if necessary, and re-place the appli thumbnails.

Parameters

pDock	the dock.
PDOCK	LITE GOOK.

5.19.3.2 cairo_dock_calculate_dock_icons()

Calculate the position of all icons inside a dock, and triggers the enter/leave events according to the position of the mouse.

Parameters

pDock	the dock.
-------	-----------

Returns

the pointed icon, or NULL if none is pointed.

5.19.3.3 cairo_dock_show_subdock()

Pop up a sub-dock.

Parameters

pPointedIcon	icon pointing on the sub-dock.
pParentDock	dock containing the icon.

5.19.3.4 cairo_dock_get_available_docks()

```
GList * cairo_dock_get_available_docks (
```

```
CairoDock * pParentDock,
CairoDock * pSubDock )
```

Get a list of available docks.

Parameters

pParentDock	excluding this dock if not NULL
pSubDock	excluding this dock and its children if not NULL

Returns

a list of CairoDock*

5.19.3.5 cairo_dock_calculate_icons_positions_at_rest_linear()

Calculate the position at rest (when the mouse is outside of the dock and its size is normal) of the icons of a linear dock.

Parameters

plconList	a list of icons.
fFlatDockWidth	width of all the icons placed next to each other.

5.19.3.6 cairo_dock_apply_wave_effect_linear()

Apply a wave effect on the icons of a linear dock. It is the famous zoom when the mouse hovers an icon.

Parameters

pDock	a linear dock.
,	

Returns

the pointed icon, or NULL if none is pointed.

5.19.3.7 cairo_dock_get_current_dock_width_linear()

Get the current width of all the icons of a linear dock. It doesn't take into account any decoration or frame, only the space occupied by the icons.

Parameters

<i>pDock</i> a linear dock.

Returns

the dock's width.

5.19.3.8 cairo_dock_check_if_mouse_inside_linear()

Check the position of the mouse inside a linear dock. It can be inside, on the edge, or outside. Update the 'i← MousePositionType' field.

Parameters

pDock a linear dock.

5.19.3.9 cairo_dock_check_can_drop_linear()

```
void cairo_dock_check_can_drop_linear ( {\tt CairoDock} \ * \ pDock \ )
```

Check if one can drop inside a linear dock. Drop is allowed between 2 icons of the launchers group, if the user is dragging something over the dock. Update the 'bCanDrop' field.

Parameters

pDock a linear dock.

5.19.3.10 cairo_dock_get_first_drawn_element_linear()

```
\label{eq:GList * cairo_dock_get_first_drawn_element_linear (} $$ GList * icons )
```

Get the first icon to be drawn inside a linear dock, so that if you draw from left to right, the pointed icon will be drawn at last.

Parameters

icons a list of icons of a linear dock.

Returns

the element of the list that contains the first icon to draw.

5.20 cairo-dock-dock-factory.h File Reference

Data Structures

• struct CairoDockRenderer

Dock's renderer, also known as 'view'.

struct _CairoDock

Definition of a Dock, which derives from a Container.

Macros

- #define GLDI_OBJECT_IS_DOCK(obj)
- #define CAIRO DOCK(p)

Functions

- CairoDock * gldi dock new (const gchar *cDockName)
- CairoDock * gldi_subdock_new (const gchar *cDockName, const gchar *cRendererName, CairoDock *p↔
 ParentDock, GList *plconList)
- void cairo_dock_remove_icons_from_dock (CairoDock *pDock, CairoDock *pReceivingDock)
- void gldi_dock_leave_synthetic (CairoDock *pDock)
- void gldi_dock_enter_synthetic (CairoDock *pDock)

5.20.1 Detailed Description

This class defines the Docks, and gives the way to create, destroy, and fill them.

A dock is a container that holds a set of icons and a renderer (also known as view).

It has the ability to be placed anywhere on the screen edges and to resize itself automatically to fit the screen's size.

It supports internal dragging of its icons with the mouse, and dragging of itself with alt+mouse.

A dock can be either a main-dock (not linked to any icon) or a sub-dock (linked to an icon of another dock), and there can be as many docks of each sort as you want.

5.20.2 Macro Definition Documentation

5.20.2.1 GLDI_OBJECT_IS_DOCK

Say if an object is a Dock.

Parameters

```
obj the object.
```

Returns

TRUE if the object is a Dock.

5.20.2.2 CAIRO_DOCK

```
#define CAIRO_DOCK(
          p )
```

Cast a Container into a Dock.

Parameters

```
p the container to consider as a dock.
```

Returns

the dock.

5.20.3 Function Documentation

5.20.3.1 gldi_dock_new()

Create a new root dock.

Parameters

```
cDockName the name that identifies the dock
```

Returns

the new dock.

5.20.3.2 gldi_subdock_new()

Create a new dock of type "sub-dock", and load a given list of icons inside. The list then belongs to the dock, so it must not be freeed after that. The buffers of each icon are loaded, so they just need to have an image filename and a name.

Parameters

cDockName	the name that identifies the dock.	
cRendererName	name of a renderer. If NULL, the default renderer will be applied.	
pParentDock	the parent dock.	
plconList	a list of icons that will be loaded and inserted into the new dock (optional).	

Returns

the new dock.

5.20.3.3 cairo_dock_remove_icons_from_dock()

Remove all icons from a dock (and its sub-docks). If the receiving dock is NULL, the icons are destroyed and removed from the current theme itself.

Parameters

pDock	a dock.
pReceivingDock	the dock that will receive the icons, or NULL to destroy and remove the icons.

5.20.3.4 gldi_dock_leave_synthetic()

Notify pDock that the mouse has possibly left it, just as if it received the "leave-notify-event" signal from GTK. Use this e.g. when a subdock, dialog or menu is closed and the dock should shrink down if the mouse is not over it.

Parameters

```
pDock a dock.
```

5.20.3.5 gldi_dock_enter_synthetic()

Notify pDock that the mouse has possibly entered it, just as if it received the "enter-notify-event" signal from GTK. Use this e.g. when a dialog is shown to prevent the dock from hiding.

Parameters

pDock a dock.

5.21 cairo-dock-dock-manager.h File Reference

Macros

#define gldi_dock_get_name(pDock)

Enumerations

· enum GldilconSize

TODO: harmonize the values with the simple config -> make some public functions...

```
    enum CairoDocksNotifications {
        NOTIFICATION_ENTER_DOCK,
        NOTIFICATION_LEAVE_DOCK,
        NOTIFICATION_INSERT_ICON,
        NOTIFICATION_REMOVE_ICON,
        NOTIFICATION_ICON_MOVED,
        NB_NOTIFICATIONS_DOCKS }
        signals
```

Functions

- gchar * gldi_dock_get_readable_name (CairoDock *pDock)
- CairoDock * gldi_dock_get (const gchar *cDockName)
- Icon * cairo dock search icon pointing on dock (CairoDock *pDock, CairoDock **pParentDock)
- void gldi_dock_rename (CairoDock *pDock, const gchar *cNewName)
- void gldi_docks_foreach (GHFunc pFunction, gpointer pUserData)
- void gldi_docks_foreach_root (GFunc pFunction, gpointer pUserData)
- void gldi_icons_foreach_in_docks (GldilconFunc pFunction, gpointer pUserData)
- void cairo_dock_reload_buffers_in_all_docks (gboolean bUpdateIconSize)
- void gldi_dock_add_conf_file_for_name (const gchar *cDockName)
- gchar * gldi_dock_add_conf_file (void)
- void gldi_docks_redraw_all_root (void)
- void cairo_dock_unhide_dock_delayed (CairoDock *pDock, int iDelay)

Unhide the dock after the given delay, or instantly if iDelay == 0.

• void gldi_dock_set_visibility (CairoDock *pDock, CairoDockVisibility iVisibility)

5.21.1 Detailed Description

This class manages all the Docks. Each Dock has a name that is unique. A Dock can be a sub-dock or a root-dock, whether there exists an icon that points on it or not, but there is no fundamental difference between both.

5.21.2 Macro Definition Documentation

5.21.2.1 gldi dock get name

```
\begin{tabular}{ll} \# define & gldi\_dock\_get\_name ( \\ & pDock & ) \end{tabular}
```

Get the name of a Dock.

Parameters

pDock	the dock.
-------	-----------

Returns

the name of the dock, that identifies it.

5.21.3 Enumeration Type Documentation

5.21.3.1 CairoDocksNotifications

```
enum CairoDocksNotifications
```

signals

Enumerator

NOTIFICATION_ENTER_DOCK	notification called when the mouse enters a dock.
NOTIFICATION_LEAVE_DOCK	notification called when the mouse leave a dock.
NOTIFICATION_INSERT_ICON	notification called when an icon has just been inserted into a dock. data :
	{Icon, CairoDock}
NOTIFICATION_REMOVE_ICON	notification called when an icon is going to be removed from a dock. data :
	{Icon, CairoDock}
NOTIFICATION_ICON_MOVED	notification called when an icon is moved inside a dock. data : {Icon,
	CairoDock}

5.21.4 Function Documentation

5.21.4.1 gldi_dock_get_readable_name()

Get a readable name for a main Dock, suitable for display (like "Bottom dock"). Sub-Docks names are defined by the user, so you can just use gldi_dock_get_name for them.

Parameters

pDock	the dock.

Returns

the readable name of the dock, or NULL if not found. Free it when you're done.

5.21.4.2 gldi_dock_get()

```
CairoDock * gldi_dock_get (
```

```
const gchar * cDockName )
```

Get a Dock from a given name.

Parameters

cDockName	the name of the dock.
-----------	-----------------------

Returns

the dock that has been registerd under this name, or NULL if none exists.

5.21.4.3 cairo_dock_search_icon_pointing_on_dock()

Search an icon pointing on a dock. If several icons point on it, the first one will be returned.

Parameters

pDock	the dock.
pParentDock	if not NULL, this will be filled with the dock containing the icon.

Returns

the icon pointing on the dock.

5.21.4.4 gldi_dock_rename()

Rename a dock. Update the container's name of all of its icons.

Parameters

pDock	the dock (optional).
cNewName	the new name.

5.21.4.5 gldi_docks_foreach()

Execute an action on all docks.

Parameters

pFunction	the action.
pUserData	data passed to the callback.

5.21.4.6 gldi_docks_foreach_root()

Execute an action on all main docks.

Parameters

pFunction	the action.
pUserData	data passed to the callback.

5.21.4.7 gldi_icons_foreach_in_docks()

Execute an action on all icons being inside a dock.

Parameters

pFunction	the action.
pUserData	data passed to the callback.

5.21.4.8 cairo_dock_reload_buffers_in_all_docks()

```
\begin{tabular}{ll} \begin{tabular}{ll} void cairo\_dock\_reload\_buffers\_in\_all\_docks ( \\ \begin{tabular}{ll} gboolean $bUpdateIconSize \end{tabular}) \end{tabular}
```

(Re)load all buffers of all icons in all docks.

Parameters

bUpdateIconSize	TRUE to recalculate the icons and docks size.
-----------------	---

5.21.4.9 gldi_dock_add_conf_file_for_name()

Add a config file for a root dock. Does not create the dock (use gldi_dock_new for that). If the config file already exists, it is overwritten (use gldi_dock_get to check if the name is already used).

Parameters

cDockName name of the dock.

5.21.4.10 gldi_dock_add_conf_file()

Add a config file for a new root dock. Does not create the dock (use gldi_dock_new for that).

Returns

the unique name for the new dock, to be passed to gldi_dock_new.

5.21.4.11 gldi_docks_redraw_all_root()

Redraw every root docks.

5.21.4.12 gldi_dock_set_visibility()

Set the visibility of a root dock. Perform all the necessary actions.

Parameters

pDock	a root dock.
iVisibility	its new visibility.

5.22 cairo-dock-dock-visibility.h File Reference

Functions

- void gldi_dock_visibility_refresh (CairoDock *pDock)
- gboolean gldi dock has overlapping window (CairoDock *pDock)

5.22.1 Detailed Description

This class manages the visibility of Docks.

5.22.2 Function Documentation

5.22.2.1 gldi_dock_visibility_refresh()

```
void gldi_dock_visibility_refresh ( {\tt CairoDock} \ * \ pDock \ )
```

Re-check if the given dock should be shown given its visibility settings

5.22.2.2 gldi_dock_has_overlapping_window()

Get the whether any application window overlaps the given dock.

Parameters

```
pDock the dock to test.
```

Returns

whether an overlapping window has been found.

5.23 cairo-dock-draw-opengl.h File Reference

Macros

- #define cairo_dock_create_texture_from_image(cImagePath)
- #define _cairo_dock_delete_texture(iTexture)
- #define _cairo_dock_enable_texture(...)
- #define cairo dock disable texture(...)
- #define _cairo_dock_set_alpha(fAlpha)
- #define _cairo_dock_set_blend_source(...)
- #define _cairo_dock_set_blend_alpha(...)

- #define _cairo_dock_set_blend_over(...)
- #define _cairo_dock_set_blend_pbuffer(...)
- #define cairo dock apply texture at size(iTexture, w, h)
- #define _cairo_dock_apply_texture(iTexture)
- #define _cairo_dock_apply_texture_at_size_with_alpha(iTexture, w, h, fAlpha)

Functions

- void cairo_dock_render_one_icon_opengl (Icon *icon, CairoDock *pDock, double fDockMagnitude, gboolean bUseText)
- GLuint cairo_dock_create_texture_from_surface_full (cairo_surface_t *pImageSurface, int *pWidth, int *p↔
 Height)
- GLuint cairo_dock_create_texture_from_surface (cairo_surface_t *pImageSurface)
- GLuint cairo_dock_create_texture_from_raw_data (const guchar *pTextureRaw, int iWidth, int iHeight)
- GLuint cairo_dock_create_texture_from_image_full (const gchar *cImagePath, double *fImageWidth, double *fImageHeight)
- void cairo dock update icon texture (Icon *pIcon)

5.23.1 Detailed Description

This class provides some useful functions to draw with OpenGL.

5.23.2 Macro Definition Documentation

5.23.2.1 cairo_dock_create_texture_from_image

Load an image on the dock into an OpenGL texture. The texture will have the same size as the image.

Parameters

```
clmagePath path to an image.
```

Returns

the newly allocated texture, to be destroyed with _cairo_dock_delete_texture.

5.23.2.2 _cairo_dock_delete_texture

Delete an OpenGL texture from the Graphic Card.

Parameters

5.23.2.3 _cairo_dock_enable_texture

Enable texture drawing.

5.23.2.4 _cairo_dock_disable_texture

Disable texture drawing.

5.23.2.5 _cairo_dock_set_alpha

Set the alpha channel to a current value, other channels are set to 1.

Parameters

```
fAlpha alpha
```

5.23.2.6 _cairo_dock_set_blend_source

Set the color blending to overwrite.

5.23.2.7 _cairo_dock_set_blend_alpha

Set the color blending to mix, for premultiplied texture.

5.23.2.8 _cairo_dock_set_blend_over

```
#define _cairo_dock_set_blend_over(
    ... )
```

Set the color blending to mix.

5.23.2.9 _cairo_dock_set_blend_pbuffer

Set the color blending to mix on a pbuffer.

5.23.2.10 _cairo_dock_apply_texture_at_size

Draw a texture centered on the current point, at a given size.

Parameters

iTexture	the texture
W	width
h	height

5.23.2.11 _cairo_dock_apply_texture

```
\begin{tabular}{ll} \# define $\_cairo\_dock\_apply\_texture ( \\ $iTexture \ ) \end{tabular}
```

Apply a texture centered on the current point and at the given scale.

Parameters

```
iTexture the texture
```

5.23.2.12 _cairo_dock_apply_texture_at_size_with_alpha

Draw a texture centered on the current point, at a given size, and with a given transparency.

Parameters

iTexture	the texture
W	width
h	height
fAlpha	the transparency, between 0 and 1.

5.23.3 Function Documentation

5.23.3.1 cairo_dock_render_one_icon_opengl()

Draw an icon, according to its current parameters: position, transparency, reflect, rotation, stretching. Also draws its indicators, label, and quick-info. It generates a CAIRO_DOCK_RENDER_ICON notification.

Parameters

icon	the icon to draw.
pDock	the dock containing the icon.
fDockMagnitude	current magnitude of the dock.
bUseText	TRUE to draw the labels.

5.23.3.2 cairo_dock_create_texture_from_surface_full()

Load a cairo surface into an OpenGL texture. The surface can be destroyed after that if you don't need it. The texture will have the same (physical) size as the surface, but potentially rounded up to the nearest power of 2 if needed.

Parameters

plmageSurface	the surface, created with one of the 'cairo_dock_create_surface_xxx' functions.
pWidth	if not NULL, return the actual width of the newly allocated texture here
pHeight	if not NULL, return the actual width of the newly allocated texture here

Returns

the newly allocated texture, to be destroyed with _cairo_dock_delete_texture.

5.23.3.3 cairo_dock_create_texture_from_surface()

Load a cairo surface into an OpenGL texture. The surface can be destroyed after that if you don't need it. The texture will have the same (physical) size as the surface, but potentially rounded up to the nearest power of 2 if needed. This function is the same as cairo_dock_create_texture_from_surface_full () but does not returm the size of the new texture.

Parameters

plmageSurface	the surface, created with one of the 'cairo_dock_create_surface_xxx' functions.
---------------	---

Returns

the newly allocated texture, to be destroyed with _cairo_dock_delete_texture.

5.23.3.4 cairo_dock_create_texture_from_raw_data()

Load a pixels buffer representing an image into an OpenGL texture.

Parameters

pTextureRaw	a buffer of pixels.
iWidth	width of the image.
iHeight	height of the image.

Returns

the newly allocated texture, to be destroyed with _cairo_dock_delete_texture.

5.23.3.5 cairo_dock_create_texture_from_image_full()

Load an image on the dock into an OpenGL texture. The texture will have the same size as the image. The size is given as an output, if you need it for some reason.

Parameters

clmagePath	path to an image.	
flmageWidth	pointer that will be filled with the width of the image.	Generated by Doxygen
flmageHeight	pointer that will be filled with the height of the image.	denotated by beaygen

Returns

the newly allocated texture, to be destroyed with _cairo_dock_delete_texture.

5.23.3.6 cairo_dock_update_icon_texture()

Update the icon's texture with its current cairo surface. This allows you to draw an icon with libcairo, and just copy the result to the OpenGL texture to be able to draw the icon in OpenGL too.

Parameters

plcon	the icon.
p.0011	

5.24 cairo-dock-draw.h File Reference

Macros

• #define cairo_dock_erase_cairo_context(pCairoContext)

Functions

- cairo_t * cairo_dock_create_drawing_context_generic (GldiContainer *pContainer)
 CONTEXT ///.
- cairo_t * cairo_dock_create_drawing_context_on_container (GldiContainer *pContainer)
- cairo_t * cairo_dock_create_drawing_context_on_area (GldiContainer *pContainer, GdkRectangle *pArea, double *fBgColor)
- void cairo_dock_draw_rounded_rectangle (cairo_t *pCairoContext, double fRadius, double fLineWidth, double fFrameHeight)
- void cairo_dock_draw_icon_cairo (Icon *icon, CairoDock *pDock, cairo_t *pCairoContext)
- void cairo_dock_render_one_icon (Icon *icon, CairoDock *pDock, cairo_t *pCairoContext, double fDock
 Magnitude, gboolean bUseText)
- void cairo_dock_draw_string (cairo_t *pCairoContext, CairoDock *pDock, double fStringLineWidth, gboolean blsLoop, gboolean bForceConstantSeparator)

5.24.1 Detailed Description

This class provides some useful functions to draw with libcairo.

5.24.2 Macro Definition Documentation

5.24.2.1 cairo_dock_erase_cairo_context

Erase a drawing context, making it fully transparent. You don't need to erase a newly created context.

Parameters

pCairoContext	a drawing context.
---------------	--------------------

5.24.3 Function Documentation

5.24.3.1 cairo_dock_create_drawing_context_generic()

```
cairo_t * cairo_dock_create_drawing_context_generic ( {\tt GldiContainer} \ * \ pContainer \ )
```

CONTEXT ///.

Create a generic drawing context, to be used as a source context (for instance, for creating a surface).

Parameters

pContainer a containe

Returns

the context on which to draw. Is never NULL, test it with cairo_status() before use it, and destroy it with cairo_destroy() when you're done with it.

5.24.3.2 cairo_dock_create_drawing_context_on_container()

Create a drawing context to draw on a container. It handles fake transparency.

Parameters

0	1 1 1 1
pContainer	the container on which you want to draw.
J	, , ,

Returns

the newly allocated context, to be destroyed with 'cairo destroy'.

5.24.3.3 cairo_dock_create_drawing_context_on_area()

Create a drawing context to draw on a part of a container. It handles fake transparency.

Parameters

pContainer	pContainer the container on which you want to draw	
pArea part of the container to draw.		
fBgColor	background color (rgba) to fill the area with, or NULL to let it transparent.	

Returns

the newly allocated context, with a clip corresponding to the area, to be destroyed with 'cairo_destroy'.

5.24.3.4 cairo_dock_draw_rounded_rectangle()

Compute the path of a rectangle with rounded corners. It doesn't stroke it, use cairo_stroke or cairo_fill to draw the line or the inside.

Parameters

pCairoContext	a drawing context; the current matrix is not altered, but the current path is.
fRadius	radius if the corners.
fLineWidth	width of the line.
fFrameWidth	width of the rectangle, without the corners.
fFrameHeight	height of the rectangle, including the corners.

5.24.3.5 cairo_dock_draw_icon_cairo()

Draw an icon and its reflect on a dock. Only draw the icon's image and reflect, and nothing else.

Parameters

icon	the icon to draw.
pDock	the dock containing the icon.
pCairoContext	a context on the dock, not altered by the function.

5.24.3.6 cairo_dock_render_one_icon()

```
void cairo_dock_render_one_icon (
```

```
Icon * icon,
CairoDock * pDock,
cairo_t * pCairoContext,
double fDockMagnitude,
gboolean bUseText )
```

Draw an icon, according to its current parameters: position, transparency, reflect, rotation, stretching. Also draws its indicators, label, and quick-info. It generates a CAIRO_DOCK_RENDER_ICON notification.

Parameters

icon	the icon to draw.
pDock	the dock containing the icon.
pCairoContext	a context on the dock, it is altered by the function.
fDockMagnitude	current magnitude of the dock.
bUseText	TRUE to draw the labels.

5.24.3.7 cairo_dock_draw_string()

Draw a string linking the center of all the icons of a dock.

Parameters

pCairoContext	a context on the dock, not altered by the function.	
pDock	the dock.	
fStringLineWidth	width of the line.	
blsLoop	TRUE to loop (link the last icon to the first one).	
bForceConstantSeparator	TRUE to consider separators having a constant size.	

5.25 cairo-dock-file-manager.h File Reference

Data Structures

struct _CairoDockDesktopEnvBackend
 Definition of the Desktop Environment backend.

Enumerations

• enum CairoDockDesktopEnv

Type of available Desktop Environments.

enum CairoDockFMEventType

Type of events that can occur to a file.

enum CairoDockFMSortType

Type of sorting available on files.

Functions

- void cairo_dock_fm_register_vfs_backend (CairoDockDesktopEnvBackend *pVFSBackend)
- gsize cairo_dock_fm_measure_diretory (const gchar *cBaseURI, gint iCountType, gboolean bRecursive, gint *pCancel)
- gboolean cairo_dock_fm_get_file_info (const gchar *cBaseURI, gchar **cName, gchar **cURI, gchar **c
 lconName, gboolean *blsDirectory, int *iVolumeID, double *fOrder, CairoDockFMSortType iSortType)
- gboolean cairo_dock_fm_get_file_properties (const gchar *cURI, guint64 *iSize, time_t *iLastModification
 —
 Time, gchar **cMimeType, int *iUID, int *iGID, int *iPermissionsMask)
- gboolean cairo dock fm launch uri (const gchar *cURI)
- gboolean cairo_dock_fm_add_monitor_full (const gchar *cURI, gboolean bDirectory, const gchar *c
 MountedURI, CairoDockFMMonitorCallback pCallback, gpointer data)
- gboolean cairo_dock_fm_remove_monitor_full (const gchar *cURI, gboolean bDirectory, const gchar *c
 MountedURI)
- gboolean cairo_dock_fm_mount_full (const gchar *cURI, int iVolumeID, CairoDockFMMountCallback p
 — Callback, gpointer user_data)
- gboolean cairo_dock_fm_unmount_full (const gchar *cURI, int iVolumeID, CairoDockFMMountCallback p
 — Callback, gpointer user data)
- gchar * cairo_dock_fm_is_mounted (const gchar *cURI, gboolean *blsMounted)
- gboolean cairo dock fm can eject (const gchar *cURI)
- gboolean cairo_dock_fm_eject_drive (const gchar *cURI)
- gboolean cairo dock fm delete file (const gchar *cURI, gboolean bNoTrash)
- gboolean cairo_dock_fm_rename_file (const gchar *cOldURI, const gchar *cNewName)
- gboolean cairo dock fm move file (const gchar *cURI, const gchar *cDirectoryURI)
- gboolean cairo_dock_fm_create_file (const gchar *cURI, gboolean bDirectory)
- GList * cairo_dock_fm_list_apps_for_file (const gchar *cURI)
- gboolean cairo dock fm empty trash (void)
- gchar * cairo_dock_fm_get_trash_path (const gchar *cNearURI, gchar **cFileInfoPath)
- gchar * cairo dock fm get desktop path (void)
- gboolean cairo dock fm logout (void)
- gboolean cairo dock fm shutdown (void)
- gboolean cairo_dock_fm_reboot (void)
- gboolean cairo_dock_fm_lock_screen (void)
- gboolean cairo_dock_fm_setup_time (void)
- gboolean cairo_dock_fm_show_system_monitor (void)
- Icon * cairo_dock_fm_create_icon_from_URI (const gchar *cURI, GldiContainer *pContainer, CairoDockFMSortType iFileSortType)
- int cairo dock get file size (const gchar *cFilePath)
- int cairo_dock_fm_get_pid (const gchar *cProcessName)
- gboolean cairo_dock_fm_monitor_pid (const gchar *cProcessName, gboolean bCheckSameProcess, GSourceFunc pCallback, gboolean bAlwaysLaunch, gpointer pUserData)
- gboolean cairo_dock_fm_add_open_with_submenu (GList *pAppList, const gchar *cPath, GtkWidget *p
 Menu, const gchar *cLabel, const gchar *cImage, CairoDockFMOpenedWithCallback pCallback, gpointer
 user_data)

5.25.1 Detailed Description

This class manages the integration into the desktop environment, which includes :

- the VFS (Virtual File System)
- the various desktop-related tools.

5.25.2 Function Documentation

5.25.2.1 cairo_dock_fm_register_vfs_backend()

Register a environment backend, overwriting any previous backend.

5.25.2.2 cairo_dock_fm_list_directory()

List the content of a directory and turn it into a list of icons.

5.25.2.3 cairo_dock_fm_measure_diretory()

Measure a directory (number of files or total size).

5.25.2.4 cairo_dock_fm_get_file_info()

Get the main info to represent a file.

5.25.2.5 cairo_dock_fm_get_file_properties()

Get some properties about a file.

5.25.2.6 cairo dock fm launch uri()

Open a file with the default application.

5.25.2.7 cairo dock fm add monitor full()

Add a monitor on an URI. It will be called each time a modification occurs on the file.

5.25.2.8 cairo_dock_fm_remove_monitor_full()

Remove a monitor on an URI.

5.25.2.9 cairo_dock_fm_mount_full()

Mount a point.

5.25.2.10 cairo_dock_fm_unmount_full()

Unmount a point.

5.25.2.11 cairo_dock_fm_is_mounted()

Say if a point is currently mounted.

5.25.2.12 cairo_dock_fm_can_eject()

Say if a point can be ejected (like a CD player).

5.25.2.13 cairo_dock_fm_eject_drive()

Eject a drive, like a CD player.

5.25.2.14 cairo_dock_fm_delete_file()

Delete a file.

5.25.2.15 cairo_dock_fm_rename_file()

Rename a file.

5.25.2.16 cairo_dock_fm_move_file()

Move a file.

5.25.2.17 cairo_dock_fm_create_file()

Create a new file.

5.25.2.18 cairo_dock_fm_list_apps_for_file()

Get the list of applications that can open a given file. Returns a list of GAppInfo

5.25.2.19 cairo_dock_fm_empty_trash()

```
\label{eq:condition} $\operatorname{gboolean}$ \ \operatorname{cairo\_dock\_fm\_empty\_trash}$ \ ($\operatorname{void}$ \ )
```

Empty the Trash.

5.25.2.20 cairo_dock_fm_get_trash_path()

Get the path to the Trash.

5.25.2.21 cairo_dock_fm_get_desktop_path()

Get the path to the Desktop.

5.25.2.22 cairo_dock_fm_logout()

Raise the logout panel.

5.25.2.23 cairo_dock_fm_shutdown()

```
\label{eq:condition} $\operatorname{gboolean\ cairo\_dock\_fm\_shutdown\ (}$$ void )
```

Raise the shutdown panel.

5.25.2.24 cairo_dock_fm_reboot()

Raise the reboot panel.

5.25.2.25 cairo_dock_fm_lock_screen()

Lock the screen.

5.25.2.26 cairo_dock_fm_setup_time()

Raise the panel to configure the time.

5.25.2.27 cairo_dock_fm_show_system_monitor()

Raise the default system monitor.

5.25.2.28 cairo_dock_fm_create_icon_from_URI()

Create an Icon representing a given URI.

5.25.2.29 cairo_dock_get_file_size()

Get the size of a local file.

Parameters

cFilePath	path of a file on the hard disk.	
-----------	----------------------------------	--

Returns

the size of the file, or 0 if it doesn't exist.

5.25.2.30 cairo_dock_fm_get_pid()

Get process ID given its name

Parameters

cProcessName	name of the process
--------------	---------------------

Returns

the PID if it exists or -1

5.25.2.31 cairo_dock_fm_monitor_pid()

Monitor a process. Call a function when the process is no longer running

Parameters

cProcessName	name(es) of the process(es)
bCheckSameProcess	TRUE to check if first match is running. FALSE to check every time if this process
	name is running even if it's not the same PID.
pCallback	function to call when the process is no longer running
bAlwaysLaunch	TRUE to launch the callback function even if the process is not running or if there is an
	error
pUserData	data to pass to pCallback

Returns

FALSE if the process is not running or if there is an error

5.25.2.32 cairo_dock_fm_add_open_with_submenu()

```
gboolean cairo_dock_fm_add_open_with_submenu (
    GList * pAppList,
    const gchar * cPath,
    GtkWidget * pMenu,
    const gchar * cLabel,
    const gchar * cImage,
    CairoDockFMOpenedWithCallback pCallback,
    gpointer user_data )
```

Create a submenu for presenting options to open a file and add it to the given menu.

Parameters

pAppList	a list with GAppInfo elements to add to the submenu (e.g. the return value of cairo_dock_fm_list_apps_for_file ()). Owned by the caller, but apps added to the menu will be refed, so can be freed.
cPath	path of the file to open
pMenu	menu to add a submenu to
cLabel	label of the submenu item
clmage	stock image to use with the label
pCallback	an optional callback function to call when the app was launched (can be NULL)
user_data	data to pass to pCallback

Returns

TRUE if the submenu was successfully created and added to pMenu

Note: the created submenu is managed internally and will be freed when the menu is destroyed. If given, user_data should remain valid while the menu is open. The callback function is only called if the app is launched, so it is possible that it is never called.

5.26 cairo-dock-gui-factory.h File Reference

Data Structures

struct _CairoDockGroupKeyWidget

Definition of a widget corresponding to a given (group;key) pair.

Enumerations

```
    enum CairoDockGUIWidgetType {
        CAIRO_DOCK_WIDGET_CHECK_BUTTON,
        CAIRO_DOCK_WIDGET_CHECK_CONTROL_BUTTON,
        CAIRO_DOCK_WIDGET_SPIN_INTEGER,
        CAIRO_DOCK_WIDGET_HSCALE_INTEGER,
        CAIRO_DOCK_WIDGET_SIZE_INTEGER,
        CAIRO_DOCK_WIDGET_SPIN_DOUBLE,
        CAIRO_DOCK_WIDGET_COLOR_SELECTOR_RGB,
```

```
CAIRO_DOCK_WIDGET_COLOR_SELECTOR_RGBA,
CAIRO DOCK WIDGET HSCALE DOUBLE,
CAIRO_DOCK_WIDGET_VIEW_LIST,
CAIRO_DOCK_WIDGET_THEME_LIST,
CAIRO_DOCK_WIDGET_ANIMATION_LIST,
CAIRO DOCK WIDGET DIALOG DECORATOR LIST,
CAIRO DOCK WIDGET DESKLET DECORATION LIST,
CAIRO DOCK WIDGET DESKLET DECORATION LIST WITH DEFAULT,
CAIRO DOCK WIDGET DOCK LIST,
CAIRO DOCK WIDGET ICONS LIST,
CAIRO_DOCK_WIDGET_ICON_THEME_LIST,
CAIRO_DOCK_WIDGET_SCREENS_LIST,
CAIRO_DOCK_WIDGET_JUMP_TO_MODULE,
CAIRO DOCK WIDGET JUMP TO MODULE IF EXISTS,
CAIRO_DOCK_WIDGET_LAUNCH_COMMAND,
CAIRO_DOCK_WIDGET_LAUNCH_COMMAND_IF_CONDITION,
CAIRO DOCK WIDGET STRING ENTRY,
CAIRO DOCK WIDGET FILE SELECTOR,
CAIRO_DOCK_WIDGET_IMAGE_SELECTOR
CAIRO DOCK WIDGET FOLDER SELECTOR,
CAIRO DOCK WIDGET SOUND SELECTOR,
CAIRO DOCK WIDGET SHORTKEY SELECTOR,
CAIRO_DOCK_WIDGET_CLASS_SELECTOR,
CAIRO_DOCK_WIDGET_PASSWORD_ENTRY,
CAIRO DOCK WIDGET FONT SELECTOR,
CAIRO_DOCK_WIDGET_LIST,
CAIRO_DOCK_WIDGET_LIST_WITH_ENTRY,
CAIRO DOCK WIDGET NUMBERED LIST,
CAIRO DOCK WIDGET NUMBERED CONTROL LIST.
CAIRO DOCK WIDGET NUMBERED CONTROL LIST SELECTIVE,
CAIRO_DOCK_WIDGET_TREE_VIEW_SORT,
CAIRO_DOCK_WIDGET_TREE_VIEW_SORT_AND_MODIFY,
CAIRO_DOCK_WIDGET_TREE_VIEW_MULTI_CHOICE,
CAIRO_DOCK_WIDGET_EMPTY_WIDGET,
CAIRO_DOCK_WIDGET_EMPTY_FULL,
CAIRO_DOCK_WIDGET_TEXT_LABEL,
CAIRO DOCK WIDGET LINK,
CAIRO_DOCK_WIDGET_HANDBOOK,
CAIRO DOCK WIDGET SEPARATOR,
CAIRO DOCK WIDGET FRAME,
CAIRO DOCK WIDGET EXPANDER.
CAIRO_DOCK_NB_GUI_WIDGETS }
```

Types of widgets that Cairo-Dock can automatically build.

· enum CairoDockGUIModelColumns

Model used for combo-box and tree-view. CAIRO_DOCK_MODEL_NAME is the name as displayed in the widget, and CAIRO_DOCK_MODEL_RESULT is the resulting string effectively written in the config file.

Functions

- CairoDockGroupKeyWidget * cairo_dock_gui_find_group_key_widget_in_list (GSList *pWidgetList, const gchar *cGroupName, const gchar *cKeyName)
- GtkWidget * cairo_dock_gui_menu_item_add (GtkWidget *pMenu, const gchar *cLabel, const gchar *c← lmage, GCallback pFunction, gpointer pData)
- GtkWidget * cairo_dock_gui_image_from_file (const gchar *clcon, int iSize)

5.26.1 Detailed Description

This class handles the construction of the common widgets used in the conf files.

A conf file is a common group/key file, with the following syntax:

```
[Group]
#comment about key1
key1 = 1
#comment about key2
key2 = pouic
```

Each key in the conf file has a comment.

The first character of the comment defines the type of widget. Known types are listed in the CairoDockGUIWidget

Type enum.

A key can be a behaviour key or an appearance key. Appearance keys are keys that defines the look of the appli, they belong to the theme. Behaviour keys are keys that define some configuration parameters, that depends on the user. To mark a key as an appearance one, suffix the widget character with a '+'. Thus, keys not marked with a '+' won't be loaded when the user loads a theme, except if he forces it.

After the widget character and its suffix, some widget accept a list of values. For instance, a spinbutton can have a min and a max limits, a list can have pre-defined elements, etc. Such values are set between '[' and ']' brackets, and separated by ';' inside.

After that, let a blank to start the widget description. It will appear on the left of the widget; description must be short enough to fit the config panel width.

You can complete this description with a tooltip. To do that, on a new comment line, add some text between '{' and '}' brackets. Tooltips appear above the widget when you let the mouse over it for \sim 1 second. They can be as long as you want. Use '

5.26.2 Enumeration Type Documentation

5.26.2.1 CairoDockGUIWidgetType

```
enum CairoDockGUIWidgetType
```

Types of widgets that Cairo-Dock can automatically build.

Enumerator

CAIRO_DOCK_WIDGET_CHECK_BUTTON	boolean in a button to tick.
CAIRO_DOCK_WIDGET_CHECK_CONTROL_←	boolean in a button to tick, that will control the
BUTTON	sensitivity of the next widget.
CAIRO_DOCK_WIDGET_SPIN_INTEGER	integer in a spin button.
CAIRO_DOCK_WIDGET_HSCALE_INTEGER	integer in an horizontal scale.
CAIRO_DOCK_WIDGET_SIZE_INTEGER	pair of integers for dimansion WidthxHeight
CAIRO_DOCK_WIDGET_SPIN_DOUBLE	double in a spin button.
	3 doubles with a color selector (RGB).
CAIRO_DOCK_WIDGET_COLOR_SELECTOR_RGB	
CAIRO_DOCK_WIDGET_COLOR_SELECTOR_←	4 doubles with a color selector (RGBA).
RGBA	
CAIRO_DOCK_WIDGET_HSCALE_DOUBLE	double in an horizontal scale.
CAIRO_DOCK_WIDGET_VIEW_LIST	list of views.

^{&#}x27; to insert new lines inside the tooltip.

Enumerator

CAIRO_DOCK_WIDGET_THEME_LIST	list of themes in a combo, with preview and readme.
CAIRO DOCK WIDGET ANIMATION LIST	list of available animations.
CAIRO_DOCK_WIDGET_DIALOG_DECORATOR←	list of available dialog decorators.
_LIST	<u> </u>
CAIRO_DOCK_WIDGET_DESKLET_← DECORATION_LIST	list of available desklet decorations.
CAIRO_DOCK_WIDGET_DESKLET_← DECORATION_LIST_WITH_DEFAULT	same but with the 'default' choice too.
CAIRO_DOCK_WIDGET_DOCK_LIST	list of existing docks.
CAIRO_DOCK_WIDGET_ICONS_LIST	list of icons of a dock.
CAIRO_DOCK_WIDGET_ICON_THEME_LIST	list of installed icon themes.
CAIRO_DOCK_WIDGET_SCREENS_LIST	list of screens
CAIRO_DOCK_WIDGET_JUMP_TO_MODULE	a button to jump to another module inside the config panel.
CAIRO_DOCK_WIDGET_JUMP_TO_MODULE_IF↔ _EXISTS	same but only if the module exists.
CAIRO_DOCK_WIDGET_LAUNCH_COMMAND	a button to launch a specific command.
CAIRO_DOCK_WIDGET_LAUNCH_COMMAND_← IF_CONDITION	a button to launch a specific command with a condition.
CAIRO_DOCK_WIDGET_STRING_ENTRY	a text entry.
CAIRO_DOCK_WIDGET_FILE_SELECTOR	a text entry with a file selector.
CAIRO_DOCK_WIDGET_IMAGE_SELECTOR	a text entry with a file selector, files are filtered to only display images.
CAIRO_DOCK_WIDGET_FOLDER_SELECTOR	a text entry with a folder selector.
CAIRO_DOCK_WIDGET_SOUND_SELECTOR	a text entry with a file selector and a 'play' button, for sound files.
CAIRO_DOCK_WIDGET_SHORTKEY_SELECTOR	a text entry with a shortkey selector.
CAIRO_DOCK_WIDGET_CLASS_SELECTOR	a text entry with a class selector.
CAIRO_DOCK_WIDGET_PASSWORD_ENTRY	a text entry, where text is hidden and the result is encrypted in the .conf file.
CAIRO_DOCK_WIDGET_FONT_SELECTOR	a font selector button.
CAIRO_DOCK_WIDGET_LIST	a text list.
CAIRO_DOCK_WIDGET_LIST_WITH_ENTRY	a combo-entry, that is to say a list where one can add a custom choice.
CAIRO_DOCK_WIDGET_NUMBERED_LIST	a combo where the number of the line is used for the choice.
CAIRO_DOCK_WIDGET_NUMBERED_← CONTROL_LIST	a combo where the number of the line is used for the choice, and for controlling the sensitivity of the widgets below.
CAIRO_DOCK_WIDGET_NUMBERED_↔ CONTROL_LIST_SELECTIVE	a combo where the number of the line is used for the choice, and for controlling the sensitivity of the widgets below; controlled widgets are indicated in the list: {entry;index first widget;nb widgets}.
CAIRO_DOCK_WIDGET_TREE_VIEW_SORT	a tree view, where lines are numbered and can be moved up and down.
CAIRO_DOCK_WIDGET_TREE_VIEW_SORT_← AND_MODIFY	a tree view, where lines can be added, removed, and moved up and down.
CAIRO_DOCK_WIDGET_TREE_VIEW_MULTI_← CHOICE	a tree view, where lines are numbered and can be selected or not.
CAIRO_DOCK_WIDGET_EMPTY_WIDGET	an empty GtkContainer, in case you need to build custom widgets.

Enumerator

CAIRO_DOCK_WIDGET_EMPTY_FULL	an empty GtkContainer, the same but using full available space.
CAIRO_DOCK_WIDGET_TEXT_LABEL	a simple text label.
CAIRO_DOCK_WIDGET_LINK	a simple text label.
CAIRO_DOCK_WIDGET_HANDBOOK	a label containing the handbook of the applet.
CAIRO_DOCK_WIDGET_SEPARATOR	an horizontal separator.
CAIRO_DOCK_WIDGET_FRAME	a frame. The previous frame will be closed.
CAIRO_DOCK_WIDGET_EXPANDER	a frame inside an expander. The previous frame will
	be closed.

5.26.3 Function Documentation

5.26.3.1 cairo_dock_gui_find_group_key_widget_in_list()

Get a widget from a list of widgets representing a configuration window. The widgets represent a pair (group,key) as defined in the config file.

Parameters

pWidgetList	list of widgets built from the config file
cGroupName	name of the group the widget belongs to
cKeyName	name of the key the widget represents

Returns

the widget asociated with the (group,key), or NULL if none is found

5.26.3.2 cairo_dock_gui_menu_item_add()

Add a new item in a menu. Adapted from cairo-dock-menu.h and does the same as gldi_menu_add_item () / cairo_dock_add_in_menu_with_stock_and_data (), but does not add the custom styling used for menus belonging to docks.

Parameters

pMenu	the menu
cLabel	the label, or NULL
clmage	the image path or name, or NULL
pFunction	the callback
pData	the data passed to the callback

Returns

the new menu-entry that has been added.

5.26.3.3 cairo_dock_gui_image_from_file()

Find and load an icon image at the given GtklconSize and the default scale factor if possible.

Parameters

clcon	name or full path of the image file to load
iSize	the GtklconSize to use

Returns

a GtkImage that contains the desired icon if found or an empty GtkImage otherwise or NULL if clcon was NULL.

5.27 cairo-dock-gui-manager.h File Reference

Data Structures

· struct _CairoDockGuiBackend

Definition of the GUI interface for modules.

Macros

#define cairo_dock_reload_current_module_widget(pModuleInstance)

Typedefs

typedef gboolean(* CairoDockApplyConfigFunc) (gpointer data)

Definition of the callback called when the user apply the config panel.

Functions

- void cairo_dock_set_status_message (GtkWidget *pWindow, const gchar *cMessage)
- void cairo_dock_set_status_message_printf (GtkWidget *pWindow, const gchar *cFormat,...) G_GNUC_← PRINTF(2

5.27.1 Detailed Description

This class provides functions to act on configuration windows.

It also defines the interface that a GUI backend should implement.

Note: GUIs are built from a .conf file; .conf files are normal group/key files, but with some special indications in the comments. Each key will be represented by a pre-defined widget, that is defined by the first caracter of its comment. The comment also contains a description of the key, and an optionnal tooltip. See cairo-dock-gui-factory.h for the list of pre-defined widgets and a short explanation on how to use them inside a conf file. The file 'cairo-dock.conf' can be an useful example.

5.27.2 Macro Definition Documentation

5.27.2.1 cairo dock reload current module widget

Reload the widget of a given module instance if it is currently opened (the current page is displayed). This is useful if the module has modified its conf file and wishes to display the changes.

Parameters

pModuleInstance	an instance of a module.

5.27.3 Function Documentation

5.27.3.1 cairo_dock_set_status_message()

Display a message on a given window that has a status-bar. If no window is provided, the current config panel will be used.

pWindow	window where the message should be displayed, or NULL to target the config panel.
cMessage	the message.

5.27.3.2 cairo_dock_set_status_message_printf()

Display a message on a given window that has a status-bar. If no window is provided, the current config panel will be used.

Parameters

pWindow	window where the message should be displayed, or NULL to target the config panel.
cFormat	the message, in a printf-like format
	arguments of the format.

5.28 cairo-dock-icon-facility.h File Reference

Macros

- #define cairo_dock_icon_is_being_inserted(icon)
- #define cairo_dock_icon_is_being_removed(icon)
- #define cairo_dock_get_icon_order(icon)
- #define cairo_dock_get_next_element(ic, list)
- #define cairo_dock_get_previous_element(ic, list)
- #define cairo_dock_set_icon_static(icon, _bStatic)
- #define cairo_dock_set_icon_always_visible(icon, _bAlwaysVisible)
- · #define gldi icon mark as launching(plcon)
- #define gldi_icon_is_launching(plcon)

Functions

- CairoDocklconGroup cairo_dock_get_icon_type (lcon *icon)
- int cairo_dock_compare_icons_order (Icon *icon1, Icon *icon2)
- int cairo_dock_compare_icons_name (lcon *icon1, lcon *icon2)
- int cairo_dock_compare_icons_extension (Icon *icon1, Icon *icon2)
- GList * cairo dock sort icons by order (GList *plconList)
- GList * cairo_dock_sort_icons_by_name (GList *plconList)
- Icon * cairo_dock_get_first_icon (GList *plconList)
- Icon * cairo_dock_get_last_icon (GList *plconList)
- Icon * cairo dock get first icon of group (GList *plconList, CairoDockIconGroup iGroup)
- Icon * cairo dock get last icon of group (GList *plconList, CairoDocklconGroup iGroup)
- Icon * cairo_dock_get_first_icon_of_order (GList *plconList, CairoDocklconGroup iGroup)
- Icon * cairo_dock_get_last_icon_of_order (GList *plconList, CairoDockIconGroup iGroup)
- lcon * cairo_dock_get_pointed_icon (GList *plconList)
- lcon * cairo_dock_get_next_icon (GList *plconList, lcon *plcon)
- Icon * cairo dock get previous icon (GList *plconList, Icon *plcon)
- lcon * cairo_dock_get_icon_with_command (GList *plconList, const gchar *cCommand)
- lcon * cairo_dock_get_icon_with_base_uri (GList *plconList, const gchar *cBaseURI)
- Icon * cairo_dock_get_icon_with_name (GList *plconList, const gchar *cName)

- lcon * cairo_dock_get_icon_with_subdock (GList *plconList, CairoDock *pSubDock)
- void cairo_dock_get_icon_extent (Icon *plcon, int *iWidth, int *iHeight)
- void cairo_dock_get_current_icon_size (Icon *pIcon, GldiContainer *pContainer, double *fSizeX, double *f
 SizeY)
- void cairo_dock_compute_icon_area (Icon *icon, GldiContainer *pContainer, GdkRectangle *pArea)
- void gldi_icon_set_name (Icon *plcon, const gchar *clconName)
- void gldi_icon_set_name_printf (lcon *plcon, const gchar *clconNameFormat,...) G_GNUC_PRINTF(2
- void void gldi_icon_set_quick_info (lcon *plcon, const gchar *cQuickInfo)
- void gldi_icon_set_quick_info_printf (lcon *plcon, const gchar *cQuickInfoFormat,...) G_GNUC_PRINTF(2
- cairo_surface_t * cairo_dock_icon_buffer_to_cairo (lcon *icon, int iWidth, int iHeight)
- gboolean cairo dock begin draw icon (Icon *pIcon, gint iRenderingMode)
- void cairo_dock_end_draw_icon (lcon *plcon)

5.28.1 Detailed Description

This class provides utility functions on Icons.

5.28.2 Macro Definition Documentation

5.28.2.1 cairo dock icon is being inserted

Say whether an icon is currently being inserted.

5.28.2.2 cairo_dock_icon_is_being_removed

Say whether an icon is currently being removed.

5.28.2.3 cairo_dock_get_icon_order

Get the group order of an icon. 3 groups are available by default : launchers, applis, and applets, and each group has an order.

5.28.2.4 cairo_dock_get_next_element

Get the next element in a list, looping if necessary..

Parameters

ic	the current element.
list	a list.

Returns

the next element, or the first element of the list if 'ic' is the last one.

5.28.2.5 cairo_dock_get_previous_element

Get the previous element in a list, looping if necessary..

Parameters

ic	the current element.
list	a list.

Returns

the previous element, or the last element of the list if 'ic' is the first one.

5.28.2.6 cairo_dock_set_icon_static

Make an icon static or not. Static icons are not animated when mouse hovers them.

Parameters

icon	an icon.
_bStatic	static or not.

5.28.2.7 cairo_dock_set_icon_always_visible

Make an icon always visible, even when the dock is hidden.

Parameters

icon	an icon.
_bAlwaysVisible	whether the icon is always visible or not.

5.28.2.8 gldi icon mark as launching

Mark an Icon as 'launching'. This states lasts until the corresponding window appears (with a timeout of 15 seconds). Typically used to prevent the program from being started 2 times in a row, or to keep the animation running until the program is started.

5.28.2.9 gldi_icon_is_launching

Tell if an Icon is being launched.

5.28.3 Function Documentation

5.28.3.1 cairo_dock_get_icon_type()

Get the type of an icon according to its content (launcher, appli, applet). This can be different from its group.

Parameters

```
icon the icon.
```

Returns

the type of the icon.

5.28.3.2 cairo_dock_compare_icons_order()

Compare 2 icons with the order relation on (group order, icon order).

Parameters

icon1	an icon.
icon2	another icon.

Returns

```
-1 if icon1 < icon2, 1 if icon1 > icon2, 0 if icon1 = icon2.
```

5.28.3.3 cairo_dock_compare_icons_name()

Compare 2 icons with the order relation on the name (case unsensitive alphabetical order).

Parameters

icon1	an icon.
icon2	another icon.

Returns

```
-1 if icon1 < icon2, 1 if icon1 > icon2, 0 if icon1 = icon2.
```

5.28.3.4 cairo_dock_compare_icons_extension()

Compare 2 icons with the order relation on the extension of their URIs (case unsensitive alphabetical order).

Parameters

icon1	an icon.
icon2	another icon.

Returns

```
-1 if icon1 < icon2, 1 if icon1 > icon2, 0 if icon1 = icon2.
```

5.28.3.5 cairo_dock_sort_icons_by_order()

```
\begin{tabular}{ll} $\tt GList * cairo\_dock\_sort\_icons\_by\_order ( \\ &\tt GList * pIconList ) \end{tabular}
```

Sort a list with the order relation on (group order, icon order).

Parameters

plconList a list of icons.	plconList	a list of icons.
----------------------------	-----------	------------------

Returns

the sorted list. Elements are the same as the initial list, only their order has changed.

5.28.3.6 cairo_dock_sort_icons_by_name()

Sort a list with the alphabetical order on the icons' name.

Parameters

plconList a list of icons.

Returns

the sorted list. Elements are the same as the initial list, only their order has changed. Icon's orders are updated to reflect the new order.

5.28.3.7 cairo_dock_get_first_icon()

Get the first icon of a list of icons.

Parameters

plconList	a list of icons.

Returns

the first icon, or NULL if the list is empty.

5.28.3.8 cairo_dock_get_last_icon()

Get the last icon of a list of icons.

Parameters

plconList a list of icons.	plconList	a list of icons.
----------------------------	-----------	------------------

Returns

the last icon, or NULL if the list is empty.

5.28.3.9 cairo_dock_get_first_icon_of_group()

Get the first icon of a given group.

Parameters

plconList	a list of icons.
iGroup	the group of icon.

Returns

the first found icon with this group, or NULL if none matches.

5.28.3.10 cairo_dock_get_last_icon_of_group()

Get the last icon of a given group.

Parameters

plconList	a list of icons.
iGroup	the group of icon.

Returns

the last found icon with this group, or NULL if none matches.

5.28.3.11 cairo_dock_get_first_icon_of_order()

Get the first icon whose group has the same order as a given one.

Parameters

plconList	a list of icons.
iGroup	a group of icon.

Returns

the first found icon, or NULL if none matches.

5.28.3.12 cairo_dock_get_last_icon_of_order()

Get the last icon whose group has the same order as a given one.

Parameters

plconList	a list of icons.
iGroup	a group of icon.

Returns

the last found icon, or NULL if none matches.

5.28.3.13 cairo_dock_get_pointed_icon()

Get the currently pointed icon in a list of icons.

Parameters

```
plconList a list of icons.
```

Returns

the icon whose field 'bPointed' is TRUE, or NULL if none is pointed.

5.28.3.14 cairo_dock_get_next_icon()

Get the icon next to a given one. The cost is O(n).

Parameters

plconList a list of icons.	
plcon	an icon in the list.

Returns

the icon whose left neighboor is plcon, or NULL if the list is empty or if plcon is the last icon.

5.28.3.15 cairo_dock_get_previous_icon()

Get the icon previous to a given one. The cost is O(n).

Parameters

plconList	a list of icons.
plcon	an icon in the list.

Returns

the icon whose right neighboor is plcon, or NULL if the list is empty or if plcon is the first icon.

5.28.3.16 cairo dock get icon with command()

Search an icon with a given command in a list of icons.

Parameters

plconList	a list of icons.
cCommand	the command.

Returns

the first icon whose field 'cCommand' is identical to the given command, or NULL if no icon matches.

5.28.3.17 cairo_dock_get_icon_with_base_uri()

Search an icon with a given URI in a list of icons.

Parameters

plconList	a list of icons.
cBaseURI	the URI.

Returns

the first icon whose field 'cURI' is identical to the given URI, or NULL if no icon matches.

5.28.3.18 cairo_dock_get_icon_with_name()

Search an icon with a given name in a list of icons.

Parameters

plconList	a list of icons.
cName	the name.

Returns

the first icon whose field 'cName' is identical to the given name, or NULL if no icon matches.

5.28.3.19 cairo_dock_get_icon_with_subdock()

Search the icon pointing on a given sub-dock in a list of icons.

Parameters

plconList	a list of icons.
pSubDock	a sub-dock.

Returns

the first icon whose field 'pSubDock' is equal to the given sub-dock, or NULL if no icon matches.

5.28.3.20 cairo_dock_get_icon_extent()

```
{\tt void \ cairo\_dock\_get\_icon\_extent} \ (
```

```
Icon * pIcon,
int * iWidth,
int * iHeight )
```

Get the dimension allocated to the surface/texture of an icon.

Parameters

plcon	the icon.
iWidth	pointer to the width.
iHeight	pointer to the height.

5.28.3.21 cairo_dock_get_current_icon_size()

Get the current size of an icon as it is seen on the screen (taking into account the zoom and the ratio).

Parameters

plcon	the icon
pContainer	its container
fSizeX	pointer to the X size (horizontal)
fSizeY	pointer to the Y size (vertical)

5.28.3.22 cairo dock compute icon area()

Get the total zone used by an icon on its container (taking into account reflect, gap to reflect, zoom and stretching).

Parameters

icon	the icon
pContainer	its container
pArea	a rectangle filled with the zone used by the icon on its container.

5.28.3.23 gldi_icon_set_name()

```
void gldi_icon_set_name (
```

```
Icon * pIcon,
const gchar * cIconName )
```

Set the label of an icon. If it has a sub-dock, it is renamed (the name is possibly altered to stay unique). The label buffer is updated too.

Parameters

plcon	the icon.
clconName	the new label of the icon. You can even pass plcon->cName.

5.28.3.24 gldi_icon_set_name_printf()

Same as above, but takes a printf-like format string.

Parameters

plcon	the icon.
clconNameFormat	the new label of the icon, in a 'printf' way.
	data to be inserted into the string.

5.28.3.25 gldi_icon_set_quick_info()

Set the quick-info of an icon. This is a small text (a few characters) that is superimposed on the icon.

Parameters

plcon	the icon.
cQuickInfo	the text of the quick-info. If NULL, will just remove the current the quick-info.

5.28.3.26 gldi_icon_set_quick_info_printf()

Same as above, but takes a printf-like format string.

Parameters

plcon	the icon.
cQuickInfoFormat	the text of the quick-info, in a 'printf' way.
	data to be inserted into the string.

5.28.3.27 cairo_dock_icon_buffer_to_cairo()

Create a copy of the icon's image, scaled to the desired size, preserving the correct device scale.

5.28.3.28 cairo_dock_begin_draw_icon()

Initiate an OpenGL drawing session on an icon's texture.

Parameters

plcon	the icon on which to draw.
iRenderingMode	rendering mode. 0:normal, 1:don't clear the current texture, so that the drawing will be superimposed on it, 2:keep the current icon texture unchanged for all the drawing (the
	drawing is made on another texture).

Returns

TRUE if you can proceed to the drawing, FALSE if an error occured.

5.28.3.29 cairo_dock_end_draw_icon()

Finish an OpenGL drawing session on an icon.

Returns

TRUE if you can proceed to the drawing, FALSE if an error occured.

5.29 cairo-dock-icon-factory.h File Reference

Data Structures

· struct | conInterface

Icon's interface.

• struct Icon

Definition of an Icon.

· struct _CairolconContainerRenderer

Definition of an Icon container (= an icon holding a sub-dock) renderer.

Macros

- #define CAIRO_DOCK_IS_ICON(obj)
- #define CAIRO_DOCK_IS_APPLI(icon)
- #define CAIRO_DOCK_IS_APPLET(icon)
- #define CAIRO_DOCK_IS_MULTI_APPLI(icon)
- #define CAIRO_DOCK_IS_AUTOMATIC_SEPARATOR(icon)
- #define CAIRO_DOCK_IS_USER_SEPARATOR(icon)
- #define CAIRO DOCK IS NORMAL APPLI(icon)
- #define CAIRO DOCK IS DETACHABLE APPLET(icon)

Enumerations

· enum CairoDockIconGroup

Available groups of icons.

• enum CairoDockAnimationState

Animation state of an icon, sorted by priority.

Functions

- lcon * gldi_icon_new (void)
- lcon * cairo_dock_create_dummy_launcher (gchar *cName, gchar *cFileName, gchar *cCommand, gchar *cQuickInfo, double fOrder)
- void cairo_dock_load_icon_image (Icon *icon, GldiContainer *pContainer)
- void cairo_dock_load_icon_text (lcon *icon)
- void cairo dock load icon guickinfo (lcon *icon)
- void cairo_dock_load_icon_buffers (Icon *pIcon, GldiContainer *pContainer)

5.29.1 Detailed Description

This class defines the items contained in containers: Icons. An icon can either be:

- a launcher (it has a command, a class, and possible an X window ID)
- an appli (it has a X window ID and a class, no command)
- an applet (it has a module instance and no command, possibly a class)
- a container (it has a sub-dock and no class nor command)
- a class icon (it has a bsub-dock and a class, but no command nor X ID)
- a separator (it has nothing)

The class defines the methods used to create a generic lcon and to load its various buffers. Specialized lcons are created by the corresponding factory.

5.29.2 Macro Definition Documentation

5.29.2.1 CAIRO_DOCK_IS_ICON

Say if an object is an Icon.

Parameters

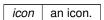
```
obj the object.
```

Returns

TRUE if the object is an icon.

5.29.2.2 CAIRO_DOCK_IS_APPLI

TRUE if the icon holds a window.



5.29.2.3 CAIRO_DOCK_IS_APPLET

TRUE if the icon holds an instance of a module.

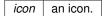
Parameters

```
icon an icon.
```

5.29.2.4 CAIRO_DOCK_IS_MULTI_APPLI

TRUE if the icon is an icon pointing on the sub-dock of a class.

Parameters



5.29.2.5 CAIRO_DOCK_IS_AUTOMATIC_SEPARATOR

TRUE if the icon is an automatic separator.

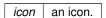
Parameters

icon an icon.

5.29.2.6 CAIRO_DOCK_IS_USER_SEPARATOR

```
\begin{tabular}{ll} \# define & CAIRO\_DOCK\_IS\_USER\_SEPARATOR ( & $icon$ ) \end{tabular}
```

TRUE if the icon is a separator added by the user.



5.29.2.7 CAIRO_DOCK_IS_NORMAL_APPLI

TRUE if the icon is an icon d'appli only.

Parameters

```
icon an icon.
```

5.29.2.8 CAIRO_DOCK_IS_DETACHABLE_APPLET

TRUE if the icon is an icon d'applet detachable en desklet.

Parameters

```
icon an icon.
```

5.29.3 Function Documentation

5.29.3.1 gldi_icon_new()

Create an empty icon.

Returns

the newly allocated icon object.

5.29.3.2 cairo_dock_create_dummy_launcher()

Create an Icon that will behave like a launcher. It's especially useful for applets that want to fill a sub-dock or a desklet (the icon is not loaded by the function). Be careful that the strings are not duplicated. Therefore, you must use g_strdup() if you want to set a constant string; and must not free the strings after calling this function.

Parameters

cName	label of the icon
cFileName	name of an image
cCommand	a command, or NULL
cQuickInfo	a quick-info, or NULL
fOrder	order of the icon in its container.

Returns

the newly created icon.

5.29.3.3 cairo_dock_load_icon_image()

Fill the image buffer (surface & texture) of a given icon, according to its type. Set its size if necessary, and fills the reflection buffer for cairo.

Parameters

icon	the icon.
pContainer	its container.

5.29.3.4 cairo_dock_load_icon_text()

Fill the label buffer (surface & texture) of a given icon, according to a text description.

Parameters

icon	the icon.

5.29.3.5 cairo_dock_load_icon_quickinfo()

Fill the quick-info buffer (surface & texture) of a given icon, according to a text description.

	Ale e de e e
icon	the icon.

5.29.3.6 cairo_dock_load_icon_buffers()

Fill all the buffers (surfaces & textures) of a given icon, according to its type. Set its size accordingly, and fills the reflection buffer for cairo. Label and quick-info are loaded with the current global text description.

Parameters

plcon	the icon.
pContainer	its container.

5.30 cairo-dock-icon-manager.h File Reference

Enumerations

```
    enum CairolconNotifications {
        NOTIFICATION_UNFOLD_SUBDOCK,
        NOTIFICATION_UPDATE_ICON,
        NOTIFICATION_UPDATE_ICON_SLOW,
        NOTIFICATION_PRE_RENDER_ICON,
        NOTIFICATION_RENDER_ICON,
        NOTIFICATION_STOP_ICON,
        NOTIFICATION_REQUEST_ICON_ANIMATION,
        NB_NOTIFICATIONS_ICON }
        signals
```

Functions

- void gldi_icons_foreach (GldilconFunc pFunction, gpointer pUserData)
- gint cairo_dock_search_icon_size (GtklconSize ilconSize)
- gchar * cairo_dock_search_icon_s_path (const gchar *cFileName, gint iDesiredIconSize)

5.30.1 Detailed Description

This class manages the icons parameters and their associated ressources.

Specialized Icons are handled by the corresponding manager.

5.30.2 Enumeration Type Documentation

5.30.2.1 CairolconNotifications

```
enum CairoIconNotifications
```

signals

Enumerator

NOTIFICATION_UNFOLD_SUBDOCK	notification called when an icon's sub-dock is starting to (un)fold. data : {lcon}
NOTIFICATION_UPDATE_ICON	notification called when an icon is updated in the fast rendering loop.
NOTIFICATION_UPDATE_ICON_SLOW	notification called when an icon is updated in the slow rendering loop.
NOTIFICATION_PRE_RENDER_ICON	notification called when the background of an icon is rendered.
NOTIFICATION_RENDER_ICON	notification called when an icon is rendered.
NOTIFICATION_STOP_ICON	notification called when an icon is stopped, for instance before it is removed.
NOTIFICATION_REQUEST_ICON_ANIMATION	notification called when someone asks for an animation for a given icon.

5.30.3 Function Documentation

5.30.3.1 gldi_icons_foreach()

Execute an action on all icons.

Parameters

pFunction	the action.
pUserData	data passed to the callback.

5.30.3.2 cairo_dock_search_icon_size()

Search the icon size of a GtklconSize.

Parameters

ilconSize	a GtklconSize
-----------	---------------

Returns

the maximum between the width and the height of the icon size in pixel (or 128 if there is a problem)

5.30.3.3 cairo_dock_search_icon_s_path()

```
gchar * cairo_dock_search_icon_s_path (
```

```
const gchar * cFileName,
gint iDesiredIconSize )
```

Search the path of an icon into the defined icons themes. It also handles the '~' caracter in paths.

Parameters

cFileName	name of the icon file.
iDesiredIconSize	desired icon size if we use icons from user icons theme.

Returns

the complete path of the icon, or NULL if not found.

5.31 cairo-dock-image-buffer.h File Reference

Data Structures

· struct _CairoDockImageBuffer

Definition of an Image Buffer. It provides an unified interface for a cairo/opengl image buffer.

Macros

- #define cairo_dock_load_image_buffer(plmage, clmageFile, iWidth, iHeight, iLoadModifier)
- #define cairo_dock_apply_image_buffer_surface(plmage, pCairoContext)
- #define cairo_dock_apply_image_buffer_texture(plmage)

Functions

- gchar * cairo_dock_search_image_s_path (const gchar *clmageFile)

- CairoDockImageBuffer * cairo_dock_create_image_buffer (const gchar *cImageFile, int iWidth, int iHeight, CairoDockLoadImageModifier iLoadModifier)
- void cairo_dock_unload_image_buffer (CairoDockImageBuffer *pImage)
- void cairo_dock_free_image_buffer (CairoDockImageBuffer *pImage)
- void cairo_dock_apply_image_buffer_texture_with_offset (const CairoDockImageBuffer *pImage, double x, double y)
- void cairo_dock_apply_image_buffer_surface_at_size (const CairoDockImageBuffer *pImage, cairo_t *p
 — CairoContext, int w, int h, double x, double y, double fAlpha)
- void cairo_dock_apply_image_buffer_texture_at_size (const CairoDockImageBuffer *pImage, int w, int h, double x, double y)
- void cairo dock create icon fbo (void)
- void cairo dock destroy icon fbo (void)
- cairo_surface_t * cairo_dock_image_buffer_copy_scale (CairoDockImageBuffer *pImage, int iWidth, int i
 Height)

5.31.1 Detailed Description

This class defines a generic image API that works for both Cairo and OpenGL. It allows to easily load and display images, without having to care the rendering mode. It supports animated images (an animated image is made of several frames, ordered side by side from left to right).

Use cairo_dock_create_image_buffer to create an image buffer from a file, or cairo_dock_load_image_buffer to load an image into an existing image buffer. Use cairo_dock_free_image_buffer to destroy it or cairo_dock_unload_image_buffer to unload and reset it to 0.

Use cairo dock apply image buffer surface or cairo dock apply image buffer texture to display the image.

5.31.2 Macro Definition Documentation

5.31.2.1 cairo dock load image buffer

```
cairo_dock_load_image_buffer(
    pImage,
    cImageFile,
    iWidth,
    iHeight,
    iLoadModifier)
```

Load an image into an ImageBuffer. If the image is given by its sole name, it is taken in the root folder of the current theme.

Parameters

plmage	an ImageBuffer.
clmageFile	name of a file
iWidth	width it should be loaded. The resulting width can be different depending on the modifier.
iHeight	height it should be loaded. The resulting width can be different depending on the modifier.
iLoadModifier	modifier

5.31.2.2 cairo dock apply image buffer surface

Draw an ImageBuffer on a cairo context.

plmage	an ImageBuffer.
pCairoContext	the current cairo context.

5.31.2.3 cairo_dock_apply_image_buffer_texture

```
\label{eq:cairo_dock_apply_image_buffer_texture} \\ pImage \ )
```

Draw an ImageBuffer on the current OpenGL context.

Parameters

plmage

5.31.3 Function Documentation

5.31.3.1 cairo_dock_search_image_s_path()

Find the path of an image. '~' is handled, as well as the 'images' folder of the current theme. Use cairo_dock_search_icon_s_path to search theme icons.

Parameters

```
clmageFile a file name or path. If it's already a path, it will just be duplicated.
```

Returns

the path of the file, or NULL if it has not been found.

5.31.3.2 cairo_dock_load_image_buffer_full()

Load an image into an ImageBuffer with a given transparency. If the image is given by its sole name, it is taken in the root folder of the current theme.

plmage	an ImageBuffer.
clmageFile	name of a file
iWidth	width it should be loaded.
iHeight	height it should be loaded.
iLoadModifier	modifier
fAlpha	transparency (1:fully opaque)

5.31.3.3 cairo_dock_load_image_buffer_from_surface()

Load a surface into an ImageBuffer.

Parameters

plmage	an ImageBuffer.
pSurface	a cairo surface
iWidth	width of the surface
iHeight	height of the surface

5.31.3.4 cairo_dock_create_image_buffer()

Create and load an image into an ImageBuffer. If the image is given by its sole name, it is taken in the root folder of the current theme.

Parameters

clmageFile	name of a file
iWidth	width it should be loaded.
iHeight	height it should be loaded.
iLoadModifier	modifier

Returns

a newly allocated ImageBuffer.

5.31.3.5 cairo_dock_unload_image_buffer()

```
void cairo_dock_unload_image_buffer ( {\tt CairoDockImageBuffer} \ * \ pImage \ )
```

Reset an ImageBuffer's ressources. It can be used to load another image then.

plmage	an ImageBuffer.

5.31.3.6 cairo_dock_free_image_buffer()

Reset and free an ImageBuffer.

Parameters

plmage	an ImageBuffer.
--------	-----------------

5.31.3.7 cairo_dock_apply_image_buffer_surface_with_offset()

Draw an ImageBuffer with an offset on a Cairo context, at the size it was loaded.

Parameters

plmage	an ImageBuffer.
pCairoContext	the current cairo context.
X	horizontal offset.
У	vertical offset.
fAlpha	transparency (in [0;1])

5.31.3.8 cairo_dock_apply_image_buffer_texture_with_offset()

Draw an ImageBuffer with an offset on the current OpenGL context, at the size it was loaded.

Parameters

plmage	an ImageBuffer.
X	horizontal offset.
У	vertical offset.

5.31.3.9 cairo_dock_apply_image_buffer_surface_at_size()

```
\verb"void cairo_dock_apply_image_buffer_surface_at_size (
```

```
const CairoDockImageBuffer * pImage,
cairo_t * pCairoContext,
int w,
int h,
double x,
double y,
double fAlpha)
```

Draw an ImageBuffer with an offset on a Cairo context, at a given size.

Parameters

plmage	an ImageBuffer.
pCairoContext	the current cairo context.
W	requested width
h	requested height
X	horizontal offset.
У	vertical offset.
fAlpha	transparency (in [0;1])

5.31.3.10 cairo_dock_apply_image_buffer_texture_at_size()

Draw an ImageBuffer on the current OpenGL context at a given size.

Parameters

plmage	an ImageBuffer.
W	requested width
h	requested height
Х	horizontal offset.
У	vertical offset.

5.31.3.11 cairo_dock_create_icon_fbo()

Create an FBO to render the icons inside a dock.

5.31.3.12 cairo_dock_destroy_icon_fbo()

```
\begin{tabular}{ll} \begin{tabular}{ll} void & cairo\_dock\_destroy\_icon\_fbo & ( \\ & void & ) \end{tabular}
```

Destroy the icons FBO.

5.31.3.13 cairo_dock_image_buffer_copy_scale()

Create a scaled copy of an image as Cairo surface suitable for e.g. using in menus.

5.32 cairo-dock-indicator-manager.h File Reference

5.32.1 Detailed Description

This class manages the indicators.

5.33 cairo-dock-keybinder.h File Reference

Macros

#define gldi_shortkey_could_grab(binding)

Typedefs

• typedef void(* **CDBindkeyHandler**) (const gchar *keystring, gpointer user_data)

Definition of a callback, called when a shortcut is pressed by the user.

Functions

- GldiShortkey * gldi_shortkey_new (const gchar *keystring, const gchar *cDemander, const gchar *cDescription, const gchar *cIconFilePath, const gchar *cConfFilePath, const gchar *cGroupName, const gchar *cKeyName, CDBindkeyHandler handler, gpointer user data)
- gboolean gldi_shortkey_rebind (GldiShortkey *binding, const gchar *cNewKeyString, const gchar *cNew
 —
 Description)
- gboolean cairo_dock_trigger_shortkey (const gchar *cKeyString)

5.33.1 Detailed Description

This class defines the Shortkeys, which are objects that bind a keyboard shortcut to an action. The keyboard shortcut is defined globally on the desktop, that is to say they will be effective whatever window has the focus. Keyboard shortcuts are of the form <alt>>1 or <ctrl>><shift>>s.

Use gldi_shortkey_new to create a new shortkey, and simply unref it with gldi_object_unref to unbind the key-board shortcut. To update a binding (whenever the shortcut or the description change, or just to re-grab it), use gldi_shortkey_rebind.

5.33.2 Macro Definition Documentation

5.33.2.1 gldi_shortkey_could_grab

Says if the shortkey of a key binding could be grabbed.

Parameters

binding a key l	oinding.
-----------------	----------

Returns

TRUE iif the shortkey has been successfuly grabbed by the key binding.

5.33.3 Function Documentation

5.33.3.1 gldi_shortkey_new()

Create a new shortkey, that binds an action to a shortkey. Unref it when you don't want it anymore, or when 'user_data' is freed.

Parameters

keystring	a shortcut.
cDemander	the actor making the demand
cDescription	a short description of the action
clconFilePath	an icon that represents the demander
cConfFilePath	conf file where the shortkey stored
cGroupName	group name where it's stored in the conf file
cKeyName	key name where it's stored in the conf file
handler	function called when the shortkey is pressed by the user
user_data	data passed to the callback

Returns

the shortkey, already bound.

5.33.3.2 gldi_shortkey_rebind()

Rebind a shortkey to a new one. If the shortkey is the same, don't re-bind it.

Parameters

binding	a key binding.
cNewKeyString	the new shortkey
cNewDescription	the new description, or NULL to keep the current one.

Returns

TRUE on success

5.33.3.3 cairo_dock_trigger_shortkey()

Trigger a given shortkey. It will be as if the user effectively pressed the shortkey on its keyboard. It uses the 'XTest' X extension.

Parameters

Returns

TRUE if success.

5.34 cairo-dock-keyfile-utilities.h File Reference

Functions

- GKeyFile * cairo_dock_open_key_file (const gchar *cConfFilePath)
- void cairo_dock_write_keys_to_file_full (GKeyFile *pKeyFile, const gchar *cConfFilePath, gboolean bAllow← Empty)
- gchar * cairo_dock_write_keys_to_new_file (GKeyFile *pKeyFile, const gchar *cConfFilePath)
- void cairo_dock_merge_conf_files (const gchar *cConfFilePath, gchar *cReplacementConfFilePath, gchar ildentifier)
- void cairo_dock_upgrade_conf_file_full (const gchar *cConfFilePath, GKeyFile *pKeyFile, const gchar *c
 — DefaultConfFilePath, gboolean bUpdateKeys)
- void cairo dock get conf file version (GKeyFile *pKeyFile, gchar **cConfFileVersion)
- gboolean cairo_dock_conf_file_needs_update (GKeyFile *pKeyFile, const gchar *cVersion)
- void cairo_dock_add_remove_element_to_key (const gchar *cConfFilePath, const gchar *cGroupName, const gchar *cKeyName, gchar *cElementName, gboolean bAdd)
- void cairo_dock_add_group_key_to_conf_file (GKeyFile *pKeyFile, const gchar *cGroupName, const gchar *ckeyName, const gchar *cInitialValue, CairoDockGUIWidgetType iWidgetType, const gchar *cAuthorized← Values, const gchar *cDescription, const gchar *cTooltip)
- void cairo_dock_remove_group_key_from_conf_file (GKeyFile *pKeyFile, const gchar *cGroupName, const gchar *ckeyName)
- void cairo dock update keyfile (const gchar *cConfFilePath, GType iFirstDataType,...)

5.34.1 Detailed Description

This class provides useful functions to manipulate the conf files of Cairo-Dock, which are classic group/key pair files.

5.34.2 Function Documentation

5.34.2.1 cairo_dock_open_key_file()

Open a conf file to be read/written. Returns NULL if the file couldn't be found/opened/parsed. Free it with g_key_
ille_free after you're done.

5.34.2.2 cairo_dock_write_keys_to_file_full()

Write a key file on the disk.

5.34.2.3 cairo_dock_write_keys_to_new_file()

Write a key file on the disk.

Parameters

pKeyFile	the key-file
cConfFilePath	its path on the disk

Returns

The name of the new config file in a newly allocated string, or NULL on failure. If cConfFilePath does not exist, a new file is created using this path. If cConfFilePath already exists, a new filename is generated by using it as a template and adding a unique suffix, and the keyfile is written there instead.

5.34.2.4 cairo dock merge conf files()

```
gchar * cReplacementConfFilePath,
gchar iIdentifier )
```

Merge the values of a conf-file into another one. Keys are filtered by an identifier on the original conf-file.

cConfFilePath	an up-to-date conf-file with old values, that will be updated.
cReplacementConfFilePath	an old conf-file containing values we want to use
ildentifier	a character to filter the keys, or 0.

5.34.2.5 cairo_dock_upgrade_conf_file_full()

Update a conf-file, by merging values from a given key-file into a template conf-file.

Parameters

cConfFilePath	path to the conf-file to update.
pKeyFile	a key-file with correct values, but old comments and possibly missing or old keys. It is not modified by the function.
cDefaultConfFilePath	a template conf-file.
bUpdateKeys	whether to remove old keys (hidden and persistent) or not.

5.34.2.6 cairo_dock_get_conf_file_version()

Get the version of a conf file. The version is written on the first line of the file, as a comment.

5.34.2.7 cairo_dock_conf_file_needs_update()

Say if a conf file's version mismatches a given version.

5.34.2.8 cairo_dock_add_remove_element_to_key()

Add or remove a value in a list of values to a given (group,key) pair of a conf file.

5.34.2.9 cairo_dock_add_group_key_to_conf_file()

Add a key to a conf file, so that it can be parsed by the GUI manager.

5.34.2.10 cairo_dock_remove_group_key_from_conf_file()

Remove a key from a conf file.

5.34.2.11 cairo_dock_update_keyfile()

Update a conf file with a list of values of the form : {type, name of the groupe, name of the key, value}. Must end with G_TYPE_INVALID.

Parameters

cConfFilePath	path to the conf file.
iFirstDataType	type of the first value.

5.35 cairo-dock-launcher-manager.h File Reference

Macros

• #define GLDI_OBJECT_IS_LAUNCHER_ICON(obj)

Functions

- Icon * gldi_launcher_add_new (const gchar *cURI, CairoDock *pDock, double fOrder)

5.35.1 Detailed Description

This class handles the Launcher Icons, which are user icons used to launch a program.

5.35.2 Macro Definition Documentation

5.35.2.1 GLDI_OBJECT_IS_LAUNCHER_ICON

```
\begin{tabular}{ll} \# define $\tt GLDI\_OBJECT\_IS\_LAUNCHER\_ICON\,($\tt obj~)$ \\ \end{tabular}
```

Say if an object is a Launcherlcon.

Parameters

obj	the object.
-----	-------------

Returns

TRUE if the object is a Launcherlcon.

5.35.3 Function Documentation

5.35.3.1 gldi_launcher_add_new_full()

Add a new launcher from a .desktop file or a blank one.

Parameters

cURI	absolute path of the .desktop file to add, a "application://" URI or NULL to create a blank launcher
pDock	the dock to add the launcher to
fOrder	where to add the launcher
bValidate	whether to check if the .desktop file supplied as cURI actually exists. If this is TRUE and the .desktop file cannot be found, this function will fail.

Returns

the icon corresponding to the new launcher

5.35.3.2 gldi_launcher_add_new()

```
CairoDock * pDock,
double fOrder )
```

Add a new launcher from a .desktop file or a blank one. This is the same as gldi_launcher_add_new_full () with bValidate == FALSE.

5.36 cairo-dock-manager.h File Reference

Data Structures

struct _GldiManager
 Definition of a Manager.

Macros

• #define GLDI OBJECT IS MANAGER(obj)

5.36.1 Detailed Description

This class defines the Managers. A Manager is like an internal module: it has a classic module interface, manages a set of resources, and has its own configuration.

Each manager is initialized at the beginning. When loading the current theme, get_config and load are called. When unloading the current theme, unload and reset_config are called. When reloading a part of the current theme, reset_config, get_config and load are called.

5.36.2 Macro Definition Documentation

5.36.2.1 GLDI_OBJECT_IS_MANAGER

Say if an object is a Manager.

Parameters

obj the object.

Returns

TRUE if the object is a Manager.

5.37 cairo-dock-menu.h File Reference

Macros

#define gldi_submenu_new(...)

- #define gldi_menu_item_new(cLabel, clmage)
- #define gldi_menu_add_sub_menu(pMenu, cLabel, clmage)

Functions

- GtkWidget * gldi_menu_new (lcon *plcon)
- void gldi_menu_init (GtkWidget *pMenu, lcon *plcon)
- void gldi menu popup full (GtkWidget *menu, const GdkEvent *event)
- GtkWidget * gldi_menu_item_new_full2 (const gchar *cLabel, const gchar *cImage, gboolean bUse ← Mnemonic, GtkIconSize iSize, gboolean bUseStyle)
- GtkWidget * gldi_menu_item_new_with_action (const gchar *cLabel, const gchar *cImage, GCallback p← Function, gpointer pData)
- GtkWidget * gldi_menu_item_new_with_submenu (const gchar *cLabel, const gchar *clmage, GtkWidget **pSubMenuPtr)
- void gldi menu item set image (GtkWidget *pMenultem, GtkWidget *image)
- GtkWidget * gldi menu item get image (GtkWidget *pMenultem)
- GtkWidget * gldi_menu_add_item (GtkWidget *pMenu, const gchar *cLabel, const gchar *clmage, GCall-back pFunction, gpointer pData)
- GtkWidget * gldi_menu_add_item_with_tooltip (GtkWidget *pMenu, const gchar *cLabel, const gchar *c← lmage, const gchar *cToolTip, void(*pFunction)(GtkMenuItem *, gpointer), gpointer pData)
- GtkWidget * gldi_menu_add_sub_menu_full (GtkWidget *pMenu, const gchar *cLabel, const gchar *clmage, GtkWidget **pMenuItemPtr)
- void gldi_menu_add_separator (GtkWidget *pMenu)

5.37.1 Detailed Description

This class defines the Menu. They are classical menus, but with a custom looking.

5.37.2 Macro Definition Documentation

5.37.2.1 gldi_submenu_new

Creates a new sub-menu. It's just a menu that doesn't point on an Icon/Container.

5.37.2.2 gldi_menu_item_new

A convenient function to create a menu-item with a label and an image.

cLabel	the label, or NULL
clmage	the image path or name, or NULL

Returns

the new menu-item.

5.37.2.3 gldi_menu_add_sub_menu

A convenient function to add a sub-menu to a given menu.

Parameters

pMenu	the menu
cLabel	the label, or NULL
clmage	the image path or name, or NULL

Returns

the new sub-menu that has been added.

5.37.3 Function Documentation

5.37.3.1 gldi_menu_new()

Creates a new menu that will point on a given lcon. If the lcon is NULL, it will be placed under the mouse.

Parameters

plcon	the icon, or NULL
-------	-------------------

Returns

the new menu.

5.37.3.2 gldi_menu_init()

Initialize a menu, so that it can be drawn and placed correctly. It's useful if the menu was created beforehand (like a DbusMenu).

plcon the icon, or NULL

5.37.3.3 gldi_menu_popup_full()

Pop-up a menu. The menu is placed above the icon, or above the container, or above the mouse, depending on how it has been initialized.

Parameters

m	nenu	the menu.
eı	vent	an event to which the menu is popped up in response (NULL to use the current GTK event)

5.37.3.4 gldi_menu_item_new_full2()

Creates a menu-item, with a label and an image. The child widget of the menu-item is a gtk-label. If the label is NULL, the child widget will be NULL too (this is useful if the menu-item will hold a custom widget).

Parameters

cLabel	the label, or NULL
clmage	the image path or name, or NULL
bUseMnemonic	whether to use the mnemonic inside the label or not
iSize	size of the image, or 0 to use the default size
bUseStyle	whether to use our custom style to draw this menu item

Returns

the new menu-item.

5.37.3.5 gldi_menu_item_new_with_action()

```
GCallback pFunction,
gpointer pData )
```

A convenient function to create a menu-item with a label, an image, and an associated action.

Parameters

cLabel	the label, or NULL	
clmage	the image path or name, or NULL	
pFunction	the callback	
pData	the data passed to the callback	

Returns

the new menu-item.

5.37.3.6 gldi_menu_item_new_with_submenu()

A convenient function to create a menu-item with a label, an image, and an associated sub-menu.

Parameters

cLabel	the label
clmage	the image path or name, or NULL
pSubMenuPtr	pointer that will contain the new sub-menu, or NULL

Returns

the new menu-item.

5.37.3.7 gldi_menu_item_set_image()

Sets a gtk-image on a menu-item. This is useful if the image can't be given by a name or path (for instance, loaded from a cairo surface).

pMenuItem	the menu-item
image	the image

5.37.3.8 gldi_menu_item_get_image()

Gets the image of a menu-item.

Parameters

Returns

the gtk-image

5.37.3.9 gldi_menu_add_item()

A convenient function to add an item to a given menu.

Parameters

pMenu	the menu
cLabel	the label, or NULL
clmage	the image path or name, or NULL
pFunction	the callback
pData	the data passed to the callback

Returns

the new menu-entry that has been added.

5.37.3.10 gldi_menu_add_item_with_tooltip()

A convenient function to add an item to a given menu with an optional tooltip to display. It is recommended to use this function to add a tooltip instead of $gtk_widget_set_tooltip_text$ () as on Wayland and gtk-layer-shell there seems to be a race condition with GTK internals that can result in an attempt to re-show the tooltip after the menu has been closed, that leads to a protocol error and crash; see https://github.ecom/wmww/gtk-layer-shell/issues/207. This function takes care to keep the tooltip hidden when the menu has been closed.

Parameters

pMenu	the menu
cLabel	the label, or NULL
clmage	the image path or name, or NULL
cToolTip	the tooltip to display when the user hovers on the menu item or NULL
pFunction	the callback
pData	the data passed to the callback

Returns

the new menu-entry that has been added.

5.37.3.11 gldi_menu_add_sub_menu_full()

A convenient function to add a sub-menu to a given menu.

Parameters

pMenu	the menu
cLabel	the label, or NULL
clmage	the image path or name, or NULL
pMenuItemPtr	pointer that will contain the new menu-item, or NULL

Returns

the new sub-menu that has been added.

5.37.3.12 gldi menu add separator()

```
void gldi_menu_add_separator ( {\tt GtkWidget} \ * \ p{\tt Menu} \ )
```

A convenient function to add a separator to a given menu.

pMenu the menu

5.38 cairo-dock-module-instance-manager.h File Reference

Data Structures

• struct _GldiModuleInstance

Definition of an instance of a module. A module can be instanciated several times.

Macros

• #define GLDI OBJECT IS MODULE INSTANCE(obj)

Functions

GldiModuleInstance * gldi_module_instance_new (GldiModule *pModule, gchar *cConfFilePath)

5.38.1 Detailed Description

This class defines the instances of modules.

A module-instance represents one instance of a module; it holds a set of data: the icon and its container, the config structure and its conf file, the data structure and a slot to plug datas into containers and icons. All these parameters are optionnal; a module-instance that has an icon is also called an applet.

5.38.2 Macro Definition Documentation

5.38.2.1 GLDI_OBJECT_IS_MODULE_INSTANCE

Say if an object is a Module-instance.

Parameters

obj the object.

Returns

TRUE if the object is a Module-instance.

5.38.3 Function Documentation

5.38.3.1 gldi module instance new()

Create a new instance of a module. Only activates it if bActivate == TRUE (FALSE is only valid for auto-loaded modules).

5.39 cairo-dock-module-manager.h File Reference

Data Structures

· struct GldiVisitCard

Definition of the visit card of a module. Contains everything that is statically defined for a module.

struct GldiModuleInterface

Definition of the interface of a module.

· struct _GldiModule

Definition of an external module.

Macros

- #define GLDI_ABI_VERSION
- #define GLDI_OBJECT_IS_MODULE(obj)

Typedefs

• typedef gboolean(* **GldiModulePreInit**) (GldiVisitCard *pVisitCard, GldiModuleInterface *pInterface)

*Pre-init function of a module. Fills the visit card and the interface of a module.

Enumerations

· enum GldiModuleCategory

Categories a module can be in.

Functions

- GldiModule * gldi_module_new (GldiVisitCard *pVisitCard, GldiModuleInterface *pInterface)
- GldiModule * gldi_module_new_from_so_file (const gchar *cSoFilePath)
- void gldi_modules_new_from_directory (const gchar *cModuleDirPath, GError **erreur)
- gchar * gldi_module_get_config_dir (GldiModule *pModule)
- GldiModule * gldi_module_get (const gchar *cModuleName)
- void gldi_modules_load_auto_config (void)
- void gldi_module_activate (GldiModule *module)
- void gldi module deactivate (GldiModule *module)
- void gldi_module_add_instance (GldiModule *pModule)

should maybe be in the module-instance too...

5.39.1 Detailed Description

This class manages the external modules of Cairo-Dock.

A module has an interface and a visit card:

- the visit card allows it to define itself (name, category, default icon, etc)
- the interface defines the entry points for init, stop, reload, read config, and reset data.

Modules can be instanciated several times; each time they are, an instance _GldiModuleInstance is created. Each instance holds a set of data: the icon and its container, the config structure and its conf file, the data structure and a slot to plug datas into containers and icons. All these data are optionnal; a module that has an icon is also called an applet.

5.39.2 Macro Definition Documentation

5.39.2.1 GLDI_ABI_VERSION

```
#define GLDI_ABI_VERSION
```

Define the current ABI version. Used by the new plugin loader interface to check compatibility. This version should be incremented if the layout or size of public structures changes, function parameters change, or a macro is converted to a function or vice versa. It is not required the change this when adding a function to the public API (loading the module will fail if it refers to an unresolved symbol anyway).

5.39.2.2 GLDI_OBJECT_IS_MODULE

Say if an object is a Module.

Parameters

```
obj the object.
```

Returns

TRUE if the object is a Module.

5.39.3 Function Documentation

5.39.3.1 gldi_module_new()

Create a new module. The module takes ownership of the 2 arguments, unless an error occured.

Parameters

pVisitCard	the visit card of the module
pInterface	the interface of the module

Returns

the new module, or NULL if the visit card is invalid.

5.39.3.2 gldi_module_new_from_so_file()

Create a new module from a .so file.

Parameters

cSoFilePath	path to the .so file
-------------	----------------------

Returns

the new module, or NULL if an error occured.

5.39.3.3 gldi_modules_new_from_directory()

Create new modules from all the .so files contained in the given folder.

Parameters

cModuleDirPath	path to the folder
erreur	an error

Returns

the new module, or NULL if an error occured.

5.39.3.4 gldi_module_get_config_dir()

Get the path to the folder containing the config files of a module (one file per instance). The folder is created if needed. If the module is not configurable, or if the folder couldn't be created, NULL is returned.

pModule	the module
---------	------------

Returns

the path to the folder (free it after use).

5.39.3.5 gldi_module_get()

Get the module which has a given name.

Parameters

Returns

the module, or NULL if not found.

5.39.3.6 gldi_modules_load_auto_config()

Load the config of all auto-loaded modules without activating them.

5.39.3.7 gldi_module_activate()

Create and initialize all the instances of a module.

Parameters

```
module the module to activate.
```

5.39.3.8 gldi_module_deactivate()

Stop and destroy all the instances of a module.

module the module to deactivate

5.40 cairo-dock-object.h File Reference

Data Structures

struct GldiObject

Definition of an Object.

· struct _GldiObjectManager

Definition of an ObjectManager.

Macros

· #define GLDI RUN FIRST

Use this in gldi_object_register_notification to be called before the core.

#define GLDI_RUN_AFTER

Use this in gldi_object_register_notification to be called after the core.

#define GLDI_NOTIFICATION_INTERCEPT

Return this in your callback to prevent the other callbacks from being called after you.

#define GLDI_NOTIFICATION_LET_PASS

Return this in your callback to let pass the notification to the other callbacks after you.

#define gldi_object_notify(pObject, iNotifType, ...)

Typedefs

• typedef gboolean(* GldiNotificationFunc) (gpointer pUserData,...)

Generic prototype of a notification callback.

Enumerations

enum GldiObjectNotifications {
 NOTIFICATION_NEW ,
 NOTIFICATION_DESTROY ,

NB_NOTIFICATIONS_OBJECT }

signals (any object has at least these ones)

Functions

- GldiObject * gldi object new (GldiObjectManager *pMgr, gpointer attr)
- void gldi_object_ref (GldiObject *pObject)
- void gldi_object_unref (GldiObject *pObject)
- void gldi_object_delete (GldiObject *pObject)
- void gldi_object_reload (GldiObject *pObject, gboolean bReloadConfig)
- void gldi_object_register_notification (gpointer pObject, GldiNotificationType iNotifType, GldiNotificationFunc pFunction, gboolean bRunFirst, gpointer pUserData)
- void gldi_object_remove_notification (gpointer pObject, GldiNotificationType iNotifType, GldiNotificationFunc pFunction, gpointer pUserData)

5.40.1 Detailed Description

This class defines the Objects, the base class of libgldi. Every element in this library is an Object. An object is defined by an ObjectManager, which defines its capabilities and signals.

Any object is created with gldi_object_new and destroyed with gldi_object_unref. An object can be deleted from the current theme with gldi_object_delete. An object can be reloaded with gldi_object_reload.

You can listen for notifications on an object with gldi_object_register_notification and stop listening with gldi_object_remove_notification. To listen for notifications on any object of a given type, simply register yourself on its ObjectManager.

5.40.2 Macro Definition Documentation

5.40.2.1 gldi_object_notify

Broadcast a notification on a given object, and on all its managers.

Parameters

pObject	the object (Icon, Container, Manager,).	
iNotifType	type of the notification.	
	parameters to be passed to the callbacks that have registered to this notification.	

5.40.3 Enumeration Type Documentation

5.40.3.1 GldiObjectNotifications

```
enum GldiObjectNotifications
```

signals (any object has at least these ones)

Enumerator

NOTIFICATION_NEW	notification called when an object has been created. data : the object
NOTIFICATION_DESTROY	notification called when the object is going to be destroyed. data : the object

5.40.4 Function Documentation

5.40.4.1 gldi object new()

```
GldiObject * gldi_object_new (
```

```
GldiObjectManager * pMgr,
gpointer attr )
```

Create a new object.

Parameters

pMgr	the ObjectManager
attr	the attributes of the object

Returns

the new object, with a reference of 1; use gldi_object_unref to destroy it

5.40.4.2 gldi_object_ref()

Take a reference on an object.

Parameters

pObject	the Object
---------	------------

5.40.4.3 gldi_object_unref()

Drop your reference on an object. If it's the last reference, the object is destroyed, otherwise nothing happens.

Parameters

pObject	the Object
---------	------------

5.40.4.4 gldi_object_delete()

Delete an object from the current theme. The object is unref'd, and won't be created again on next startup.

pObject	the Object

5.40.4.5 gldi_object_reload()

Reload an object.

Parameters

pObject	the Object
bReloadConfig	TRUE to read its config file again (if the object has one)

5.40.4.6 gldi_object_register_notification()

Register an action to be called when a given notification is broadcasted from a given object.

Parameters

pObject	the object (Icon, Container, Manager).	
iNotifType	type of the notification.	
pFunction	callback.	
bRunFirst	GLDI_RUN_FIRST to be called before Cairo-Dock, GLDI_RUN_AFTER to be called afte	
pUserData	data to be passed as the first parameter of the callback.	

5.40.4.7 gldi_object_remove_notification()

Remove a callback from the list of callbacks of a given object for a given notification and a given data. Note: it is safe to remove the callback when it is called, but not another one.

pObject	the object (Icon, Container, Manager) for which the action has been registered.	
iNotifType	type of the notification.	
pFunction	callback.	
pUserData	data that was registerd with the callback.	

5.41 cairo-dock-opengl-font.h File Reference

Data Structures

• struct CairoDockGLFont

Structure used to load a font for OpenGL text rendering.

Functions

- GLuint cairo_dock_create_texture_from_text_simple (const gchar *cText, const gchar *cFontDescription, cairo t *pSourceContext, int *iWidth, int *iHeight)
- CairoDockGLFont * cairo_dock_load_textured_font (const gchar *cFontDescription, int first, int count)
- CairoDockGLFont * cairo_dock_load_textured_font_from_image (const gchar *cImagePath)
- void cairo dock free gl font (CairoDockGLFont *pFont)
- void cairo_dock_get_gl_text_extent (const gchar *cText, CairoDockGLFont *pFont, int *iWidth, int *iHeight)
- void cairo_dock_draw_gl_text (const guchar *cText, CairoDockGLFont *pFont)
- void cairo_dock_draw_gl_text_at_position (const guchar *cText, CairoDockGLFont *pFont, int x, int y)
- void cairo_dock_draw_gl_text_in_area (const guchar *cText, CairoDockGLFont *pFont, int iWidth, int iHeight, gboolean bCentered)
- void cairo_dock_draw_gl_text_at_position_in_area (const guchar *cText, CairoDockGLFont *pFont, int x, int y, int iWidth, int iHeight, gboolean bCentered)

5.41.1 Detailed Description

This class provides different ways to draw text directly in OpenGL. cairo_dock_create_texture_from_text_simple lets you draw any text in any font, by creating a texture from a Pango font description. This is a convenient function but not very fast. For a more efficient way, you load a font into a CairoDockGLFont with either: cairo_dock_load_textured_font to load a subset of a Mono font into textures. You then use cairo_dock_draw_gl_text_at_position to draw the text.

5.41.2 Function Documentation

5.41.2.1 cairo dock create texture from text simple()

Create a texture from a text. The text is drawn in white, so that you can later colorize it with a mere glColor.

cText	the text
cFontDescription a description of the font, for instance "Monospace Bole	
pSourceContext	a cairo context, not altered by the function.
iWidth	a pointer that will be filled with the width of the texture.
iHeight a pointer that will be filled with the height of the t	

Returns

a newly allocated texture.

5.41.2.2 cairo_dock_load_textured_font()

Load a font into textures. You can then render your text like a normal texture (zoom, etc). The drawback is that only a mono font can be used with this function.

Parameters

cFontDescription	a description of the font, for instance "Monospace Bold 12"
first	first character to load.
count	number of characters to load.

Returns

a newly allocated opengl font.

5.41.2.3 cairo_dock_load_textured_font_from_image()

Like the previous function, but loads the characters from an image. The image must be squared and contain the 256 extended ASCII characters in the alphabetic order.

Parameters

clmagePath	path to the image.
------------	--------------------

Returns

a newly allocated opengl font.

5.41.2.4 cairo_dock_free_gl_font()

Free an opengl font.

pFont	the font.
-------	-----------

5.41.2.5 cairo_dock_get_gl_text_extent()

Compute the size a text will take for a given font.

Parameters

cText	the text	
pFont	the font.	
iWidth	iWidth a pointer that will be filled with the width of the text	
iHeight	a pointer that will be filled with the height of the text.	

5.41.2.6 cairo_dock_draw_gl_text()

Render a text for a given font. In the case of a bitmap font, the current raster position is used. In the case of a texture font, the current model view is used.

Parameters

cText	the text
pFont	the font.

5.41.2.7 cairo_dock_draw_gl_text_at_position()

Like /ref cairo_dock_draw_gl_text but at a given position.

cText	the text

Parameters

pFont	the font.
Х	x position of the left bottom corner of the text.
У	y position of the left bottom corner of the text.

5.41.2.8 cairo_dock_draw_gl_text_in_area()

Like /ref cairo_dock_draw_gl_text but resize the text so that it fits into a given area. Only works for a texture font.

Parameters

cText	the text
pFont	the font.
iWidth	iWidth of the area.
iHeight	iHeight of the area
bCentered	whether the text is centered on the current position or not.

5.41.2.9 cairo_dock_draw_gl_text_at_position_in_area()

Like /ref cairo_dock_draw_gl_text_in_area and /ref cairo_dock_draw_gl_text_at_position.

cText	the text
pFont	the font.
Х	x position of the left bottom corner of the text.
У	y position of the left bottom corner of the text.
iWidth	iWidth of the area.
iHeight	iHeight of the area
bCentered	whether the text is centered on the given position or not.

5.42 cairo-dock-opengl-path.h File Reference

Data Structures

struct _CairoDockGLPath

Definition of a CairoDockGLPath.

Functions

- CairoDockGLPath * cairo_dock_new_gl_path (int iNbVertices, double x0, double y0, int iWidth, int iHeight)
- void cairo dock free gl path (CairoDockGLPath *pPath)
- void cairo dock gl path move to (CairoDockGLPath *pPath, double x0, double y0)
- void cairo_dock_gl_path_set_extent (CairoDockGLPath *pPath, int iWidth, int iHeight)
- void cairo_dock_gl_path_line_to (CairoDockGLPath *pPath, GLfloat x, GLfloat y)
- void cairo_dock_gl_path_rel_line_to (CairoDockGLPath *pPath, GLfloat dx, GLfloat dy)
- void cairo_dock_gl_path_curve_to (CairoDockGLPath *pPath, int iNbPoints, GLfloat x1, GLfloat y1, GLfloat x2, GLfloat y2, GLfloat x3, GLfloat y3)
- void cairo_dock_gl_path_rel_curve_to (CairoDockGLPath *pPath, int iNbPoints, GLfloat dx1, GLfloat dy1, GLfloat dx2, GLfloat dy2, GLfloat dx3, GLfloat dy3)
- void cairo_dock_gl_path_simple_curve_to (CairoDockGLPath *pPath, int iNbPoints, GLfloat x1, GLfloat y1, GLfloat x2, GLfloat y2)
- void cairo_dock_gl_path_rel_simple_curve_to (CairoDockGLPath *pPath, int iNbPoints, GLfloat dx1, GLfloat dy1, GLfloat dx2, GLfloat dy2)
- void cairo_dock_gl_path_arc (CairoDockGLPath *pPath, int iNbPoints, GLfloat xc, GLfloat yc, double r, double teta0, double cone)
- void cairo_dock_stroke_gl_path (const CairoDockGLPath *pPath, gboolean bClosePath)
- void cairo_dock_fill_gl_path (const CairoDockGLPath *pPath, GLuint iTexture)
- void cairo_dock_draw_rounded_rectangle_opengl (double fFrameWidth, double fFrameHeight, double f← Radius, double fLineWidth, double *fLineColor)

5.42.1 Detailed Description

This class define OpenGL path, with similar functions as cairo. You create a path with cairo_dock_new_gl_path, then you add lines, curves or arcs to it. Once the path is defined, you can eigher stroke it with cairo_dock_stroke_gl_path or fill it with cairo_dock_fill_gl_path. You can fill a path with the current color or with a texture, in this case you must provide the dimension of the husk. To destroy the path, use cairo_dock_free_gl_path.

5.42.2 Function Documentation

5.42.2.1 cairo_dock_new_gl_path()

```
CairoDockGLPath * cairo_dock_new_gl_path (
    int iNbVertices,
    double x0,
    double y0,
    int iWidth,
    int iHeight )
```

Create a new path. It will start at the point (x0, y0). If you want to be abe to fill it with a texture, you can specify here the dimension of the path's husk.

Parameters

iNbVertices	maximum number of vertices the path will have
x0	x coordinate of the origin point
y0	y coordinate of the origin point
iWidth	width of the husk of the path.
iHeight	height of the husk of the path

Returns

a newly allocated path, with 1 point.

5.42.2.2 cairo_dock_free_gl_path()

Destroy a path and free its allocated ressources.

Parameters

pPath	the path.
-------	-----------

5.42.2.3 cairo_dock_gl_path_move_to()

Rewind the path, defining its origin point. The path has only 1 point after a call to this function.

Parameters

pPath	the path.
x0	x coordinate of the origin point
y0	y coordinate of the origin point

5.42.2.4 cairo_dock_gl_path_set_extent()

Define the dimension of the hulk. This is needed if you intend to fill the path with a texture.

pPath	the path.
iWidth	width of the hulk
iHeight	height of the hulk

5.42.2.5 cairo_dock_gl_path_line_to()

Add a line between the current point and a given point.

Parameters

pPath	the path.
X	x coordinate of the point
У	y coordinate of the point

5.42.2.6 cairo_dock_gl_path_rel_line_to()

Add a line defined relatively to the current point.

Parameters

pPath	the path.
dx	horizontal offset
dy	vertical offset

5.42.2.7 cairo_dock_gl_path_curve_to()

Add a Bezier cubic curve starting from the current point.

pPath	the path.
iNbPoints	number of points used to discretize the curve
x1	first control point x
y1	first control point y
x2	second control point x
y2	second control point y
хЗ	terminal point of the curve x
у3	terminal point of the curve y

5.42.2.8 cairo_dock_gl_path_rel_curve_to()

Add a Bezier cubic curve starting from the current point. The control and terminal points are defined relatively to the current point.

Parameters

pPath	the path.
iNbPoints	number of points used to discretize the curve
dx1	first control point offset x
dy1	first control point offset y
dx2	second control point offset x
dy2	second control point offset y
dx3	terminal point of the curve offset x
dy3	terminal point of the curve offset y

5.42.2.9 cairo_dock_gl_path_simple_curve_to()

Add a Bezier bilinear curve starting from the current point

Parameters

pPath	the path.
iNbPoints	number of points used to discretize the curve
x1	control point x
y1	control point y
x2	terminal point of the curve x
y2	terminal point of the curve y

5.42.2.10 cairo_dock_gl_path_rel_simple_curve_to()

Add a Bezier bilinear curve starting from the current point. The control and terminal points are defined relatively to the current point.

Parameters

pPath	the path.
iNbPoints	number of points used to discretize the curve
dx1	control point offset x
dy1	control point offset y
dx2	terminal point of the curve offset x
dy2	terminal point of the curve offset y

5.42.2.11 cairo_dock_gl_path_arc()

Add an arc to the path, joining the current point to the beginning of the arc with a line.

pPath	the path.
iNbPoints	number of points used to discretize the arc
хс	x coordinate of the center

ус	y coordinate of the center
r	radius
teta0	initial angle
cone	cone of the arc (a negative value means clockwise).

5.42.2.12 cairo_dock_stroke_gl_path()

Stroke a path with the current color and with the current line width.

Parameters

pPath	the path.
bClosePath	whether to close the path (that is to say, join the last point with the first one) or not.

5.42.2.13 cairo_dock_fill_gl_path()

Fill a path with a texture, or with the current color if the texture is 0.

Parameters

pPath	the path.
iTexture	the texture, or 0 to fill the path with the current color. To fill the path with a gradation, use
	GL_COLOR_ARRAY and feed it with a table of colors that matches the vertices.

5.42.2.14 cairo_dock_draw_rounded_rectangle_opengl()

Draw a rectangle with rounded corners. The rectangle will be centered at the current point. The current matrix is not altered.

Parameters

fFrameWidth	width of the rectangle, without the corners.
fFrameHeight	height of the rectangle, including the corners.
fRadius	radius of the corners (can be 0).
fLineWidth	width of the line. If set to 0, the background will be filled with the provided color, otherwise the path will be stroke with this color.
fLineColor	color of the line if fLineWidth is non nul, or color of the background otherwise.

5.43 cairo-dock-opengl.h File Reference

Data Structures

struct CairoDockGLConfig

This strucure summarizes the available OpenGL configuration on the system.

Macros

• #define gldi_gl_container_begin_draw(pContainer)

Functions

- gboolean gldi_gl_backend_init (gboolean bForceOpenGL)
- void gldi gl init opengl context (void)
- gboolean gldi gl container make current (GldiContainer *pContainer)
- gboolean gldi_gl_offscreen_context_make_current (void)
- gboolean gldi_gl_container_begin_draw_full (GldiContainer *pContainer, GdkRectangle *pArea, gboolean bClear)
- void gldi_gl_container_end_draw (GldiContainer *pContainer)
- void gldi_gl_container_set_perspective_view (GldiContainer *pContainer)
- void gldi_gl_container_set_perspective_view_for_icon (lcon *plcon)
- void gldi_gl_container_set_ortho_view (GldiContainer *pContainer)
- void gldi_gl_container_set_ortho_view_for_icon (lcon *plcon)
- void gldi_gl_container_init (GldiContainer *pContainer)
- void gldi_gl_container_resized (GldiContainer *pContainer, int iWidth, int iHeight)

5.43.1 Detailed Description

This class manages the OpenGL backend and context.

5.43.2 Macro Definition Documentation

5.43.2.1 gldi_gl_container_begin_draw

Start drawing on a Container's OpenGL context (draw on the whole Container and clear buffers).

pContainer the container

5.43.3 Function Documentation

5.43.3.1 gldi_gl_backend_init()

Initialize the OpenGL backend, by trying to get a suitable GLX configuration.

Parameters

bForceOpenGL whether to force the use of OpenGL, or let the function decide.

Returns

TRUE if OpenGL is usable.

5.43.3.2 gldi_gl_init_opengl_context()

Callback from the backends to perform common initialization for a container after a context is available. The context must be made current before calling this function.

5.43.3.3 gldi_gl_container_make_current()

```
{\tt gboolean~gldi\_gl\_container\_make\_current~(} \\ {\tt GldiContainer~*~pContainer~)}
```

Make a Container's OpenGL context the current one.

Parameters

pContainer the container

Returns

TRUE if the Container's context is now the current one.

5.43.3.4 gldi_gl_offscreen_context_make_current()

```
\begin{tabular}{ll} $\tt gboolean gldi\_gl\_offscreen\_context\_make\_current ( \\ &\tt void ) \end{tabular}
```

Try to make current an OpenGL context that is not associated with any container, but is suitable for rendering to offscreen targets (i.e. textures). The caller must attach an FBO and a texture before rendering.

Returns

TRUE if a context was successfully set up.

5.43.3.5 gldi_gl_container_begin_draw_full()

Start drawing on a Container's OpenGL context.

Parameters

pContainer	the container
pArea	optional area to clip the drawing (NULL to draw on the whole Container)
bClear	whether to clear the color buffer or not

5.43.3.6 gldi_gl_container_end_draw()

Ends the drawing on a Container's OpenGL context.

Parameters

```
pContainer the container
```

5.43.3.7 gldi_gl_container_set_perspective_view()

Set a perspective view to the current GL context to fit a given Container. You may want to ensure the Container's context is really the current one.

Parameters

pContainer the container

5.43.3.8 gldi_gl_container_set_perspective_view_for_icon()

```
void gldi_gl_container_set_perspective_view_for_icon ( Icon \ * \ pIcon \ )
```

Set a perspective view to the current GL context to fit a given Icon (which must be inside a Container). You may want to ensure the Icon's Container's context is really the current one.

Parameters

plcon the icon

5.43.3.9 gldi_gl_container_set_ortho_view()

Set a orthogonal view to the current GL context to fit a given Container. You may want to ensure the Container's context is really the current one.

Parameters

pContainer the container

5.43.3.10 gldi_gl_container_set_ortho_view_for_icon()

```
void gldi_gl_container_set_ortho_view_for_icon ( Icon \ *\ pIcon\ )
```

Set a orthogonal view to the current GL context to fit a given Icon (which must be inside a Container). You may want to ensure the Icon's Container's context is really the current one.

Parameters

plcon the icon

5.43.3.11 gldi_gl_container_init()

Set a shared default-initialized GL context on a window.

Parameters

pContainer	the container, not yet realized.
------------	----------------------------------

5.43.3.12 gldi_gl_container_resized()

Should be called when the window is resized so that the associated EGL surface can be resized – needed on Wayland, pContainer->iWidth and iHeight should be set to the desired new size

5.44 cairo-dock-overlay.h File Reference

Data Structures

struct _CairoOverlay
 Definition of an Icon Overlay.

Macros

- #define cairo_dock_set_overlay_scale(pOverlay, _fScale)
- #define cairo_dock_get_overlay_image_buffer(pOverlay)

Enumerations

• enum CairoOverlayPosition

Available position of an overlay on an icon.

Functions

- CairoOverlay * cairo_dock_add_overlay_from_image (Icon *plcon, const gchar *clmageFile, CairoOverlayPosition iPosition, gpointer data)
- CairoOverlay * cairo_dock_add_overlay_from_surface (lcon *plcon, cairo_surface_t *pSurface, int iWidth, int iHeight, CairoOverlayPosition iPosition, gpointer data)
- CairoOverlay * cairo_dock_add_overlay_from_texture (Icon *plcon, GLuint iTexture, CairoOverlayPosition iPosition, gpointer data)
- void cairo_dock_remove_overlay_at_position (Icon *pIcon, CairoOverlayPosition iPosition, gpointer data)
- gboolean cairo_dock_print_overlay_on_icon_from_image (lcon *plcon, const gchar *clmageFile, CairoOverlayPosition iPosition)
- void cairo_dock_print_overlay_on_icon_from_surface (Icon *pIcon, cairo_surface_t *pSurface, int iWidth, int iHeight, CairoOverlayPosition iPosition)

5.44.1 Detailed Description

This class defines Overlays, that are small images superimposed on the icon at a given position.

To add an overlay to an icon, use cairo_dock_add_overlay_from_image or cairo_dock_add_overlay_from_surface. The overlay can then be removed from the icon by simply destroying it with gldi_object_unref

A common feature is to have only 1 overlay at a given position. This can be achieved by passing a non-NULL data to the creation functions. This data will identify all of your overlays. You can then remove an overlay simply from its position with cairo_dock_remove_overlay_at_position, and adding an overlay at a position will automatically remove any previous overlay at this position with the same data.

If you're never going to update nor remove an overlay, you can choose to print it directly onto the icon with cairo_dock_print_overlay_on_icon_from_image or cairo_dock_print_overlay_on_icon_from_surface, which is slightly faster.

Overlays are drawn at 1/2 of the icon size by default, but this can be set up with cairo_dock_set_overlay_scale. If you need to modify an overlay directly, you can get its image buffer with cairo_dock_get_overlay_image_buffer.

5.44.2 Macro Definition Documentation

5.44.2.1 cairo_dock_set_overlay_scale

Set the scale of an overlay; by default it's 0.5

Parameters

pOverlay	the overlay
_fScale	the scale

5.44.2.2 cairo_dock_get_overlay_image_buffer

Get the image buffer of an overlay (only useful if you need to redraw the overlay).

pOverlay	the overlay

5.44.3 Function Documentation

5.44.3.1 cairo_dock_add_overlay_from_image()

Add an overlay on an icon from an image.

Parameters

plcon	the icon
clmageFile	an image (if it's not a path, it is searched amongst the current theme's images)
iPosition	position where to display the overlay

Returns

the overlay, or NULL if the image couldn't be loaded.

Parameters

data data that will be used to look for the overlay in cairo_dock_remove_overlay_at_position; if NULL, then this function can't be used

5.44.3.2 cairo_dock_add_overlay_from_surface()

Add an overlay on an icon from a surface.

plcon	the icon
pSurface	a cairo surface
iWidth	width of the surface
iHeight	height of the surface
iPosition	position where to display the overlay
data	data that will be used to look for the overlay in cairo_dock_remove_overlay_at_position; if NULL,
	then this function can't be used

Returns

the overlay.

5.44.3.3 cairo_dock_add_overlay_from_texture()

Add an overlay on an icon from a texture.

Parameters

plcon	the icon
iTexture	a texture
iPosition	position where to display the overlay
data	data that will be used to look for the overlay in cairo_dock_remove_overlay_at_position; if NULL, then this function can't be used

Returns

the overlay.

5.44.3.4 cairo_dock_remove_overlay_at_position()

Remove an overlay from an icon, given its position and data.

Parameters

plcon	the icon
iPosition	the position of the overlay
data	data that was set on the overlay when created; a NULL pointer is not valid.

5.44.3.5 cairo_dock_print_overlay_on_icon_from_image()

Print an overlay onto an icon from an image at a given position. You can't remove/modify the overlay then. The overlay will be displayed until you modify the icon directly (for instance by setting a new image).

Parameters

plcon	the icon
clmageFile	an image (if it's not a path, it is searched amongst the current theme's images)
iPosition	position where to display the overlay

Returns

TRUE if the overlay has been successfuly printed.

5.44.3.6 cairo_dock_print_overlay_on_icon_from_surface()

Print an overlay onto an icon from a surface at a given position. You can't remove/modify the overlay then. The overlay will be displayed until you modify the icon directly (for instance by setting a new image).

Parameters

plcon	the icon
pSurface	a cairo surface
iWidth	width of the surface
iHeight	height of the surface
iPosition	position where to display the overlay

Returns

TRUE if the overlay has been successfuly printed.

5.45 cairo-dock-packages.h File Reference

Data Structures

struct _CairoDockPackage
 Definition of a generic package.

Macros

#define cairo_dock_get_url_data(cURL, erreur)

Typedefs

• typedef void(* CairoDockGetPackagesFunc) (GHashTable *pPackagesTable, gpointer data)

Prototype of the function called when the list of packages is available. Use g_hash_table_ref if you want to keep the table outside of this function.

Enumerations

```
    enum CairoDockPackageType {
        CAIRO_DOCK_LOCAL_PACKAGE,
        CAIRO_DOCK_USER_PACKAGE,
        CAIRO_DOCK_DISTANT_PACKAGE,
        CAIRO_DOCK_NEW_PACKAGE,
        CAIRO_DOCK_UPDATED_PACKAGE,
        CAIRO_DOCK_ANY_PACKAGE,
        CAIRO_DOCK_NB_TYPE_PACKAGE}
```

Types of packagess.

Functions

- gboolean cairo_dock_download_file (const gchar *cURL, const gchar *cLocalPath)
- gchar * cairo_dock_download_file_in_tmp (const gchar *cURL)
- gchar * cairo_dock_download_archive (const gchar *cURL, const gchar *cExtractTo)
- GldiTask * cairo_dock_download_file_async (const gchar *cURL, const gchar *cLocalPath, GFunc p
 Callback, gpointer data)
- gchar * cairo_dock_get_url_data_with_post (const gchar *cURL, gboolean bGetOutputHeaders, GError **erreur, const gchar *cFirstProperty,...)
- GldiTask * cairo_dock_get_url_data_async (const gchar *cURL, GFunc pCallback, gpointer data)
- void cairo dock free package (CairoDockPackage *pPackage)
- GHashTable * cairo_dock_list_packages (const gchar *cSharePackagesDir, const gchar *cUserPackages
 —
 Dir, const gchar *cDistantPackagesDir, GHashTable *pTable)
- GldiTask * cairo_dock_list_packages_async (const gchar *cSharePackagesDir, const gchar *cUser ← PackagesDir, const gchar *cDistantPackagesDir, CairoDockGetPackagesFunc pCallback, gpointer data, GHashTable *pTable)
- gchar * cairo_dock_get_package_path (const gchar *cPackageName, const gchar *cSharePackagesDir, const gchar *cUserPackagesDir, const gchar *cDistantPackagesDir, CairoDockPackageType iGivenType)

5.45.1 Detailed Description

This class provides a convenient way to deal with packages. A Package is a tarball (tar.gz) of a folder, located on a distant server, that can be installed locally. Packages are listed on the server in a file named "list.conf". It's a group-key file starting with "#!CD" on the first line; each package is described in its own group. Packages are stored on the server in a folder that has the same name, and contains the tarball, a "readme" file, and a "preview" file.

The class offers a high level of abstraction that allows to manipulate packages without having to care their location, version, etc. It also provides convenient utility functions to download a file or make a request to a server.

To get the list of available packages, use cairo_dock_list_packages, or its asynchronous version cairo_dock_list_packages_async. To access a package, use cairo_dock_get_package_path.

5.45.2 Macro Definition Documentation

5.45.2.1 cairo dock get url data

Retrieve the data of a distant URL.

Parameters

cURL	distant adress to get data from.
erreur	an error.

Returns

the data (NULL if failed). It's an array of chars, possibly containing nul chars. Free it after using.

5.45.3 Enumeration Type Documentation

5.45.3.1 CairoDockPackageType

```
enum CairoDockPackageType
```

Types of packagess.

Enumerator

CAIRO_DOCK_LOCAL_PACKAGE	package installed as root on the machine (in a sub-folder /usr).
CAIRO_DOCK_USER_PACKAGE	package located in the user's home
CAIRO_DOCK_DISTANT_PACKAGE	package present on the server
CAIRO_DOCK_NEW_PACKAGE	package newly present on the server (for less than 1 month)
CAIRO_DOCK_UPDATED_PACKAGE	package present locally but with a more recent version on the server, or distant package that has been updated in the past month.
CAIRO_DOCK_ANY_PACKAGE	joker (the search path function will search locally first, and on the server then).

5.45.4 Function Documentation

5.45.4.1 cairo_dock_download_file()

Download a distant file into a given location.

Parameters

cURL	adress of the file.
cLocalPath	a local path where to store the file.

Returns

TRUE on success, else FALSE..

5.45.4.2 cairo_dock_download_file_in_tmp()

Download a distant file as a temporary file.

Parameters

Returns

the local path of the file on success, else NULL. Free the string after using it.

5.45.4.3 cairo_dock_download_archive()

Download an archive and extract it into a given folder.

Parameters

cURL	adress of the file.
cExtractTo	folder where to extract the archive (the archive is deleted then).

Returns

the local path of the file on success, else NULL. Free the string after using it.

5.45.4.4 cairo dock download file async()

Asynchronously download a distant file into a given location. This function is non-blocking, you'll get a CairoTask that you can discard at any time, and you'll get the path of the downloaded file as the first argument of the callback (the second being the data you passed to this function).

cURL	adress of the file.
cLocalPath	a local path where to store the file, or NULL for a temporary file.
pCallback	function called when the download is finished. It takes the path of the downloaded file (it belongs to the task so don't free it) and the data you've set here.
data	data to be passed to the callback.

Returns

the Task that is doing the job. Keep it and use cairo_dock_discard_task whenever you want to discard the download (for instance if the user cancels it), or cairo_dock_free_task inside your callback.

5.45.4.5 cairo_dock_get_url_data_with_post()

Retrieve the response of a POST request to a server.

Parameters

cURL	the URL request
bGetOutputHeaders	whether to retrieve the page's header.
erreur	an error.
cFirstProperty	first property of the POST data.
	tuples of property and data to insert in POST data; the POST data will be formed with a=urlencode(b)&c=urlencode(d)& End it with NULL.

Returns

the data (NULL if failed). It's an array of chars, possibly containing nul chars. Free it after using.

5.45.4.6 cairo_dock_get_url_data_async()

Asynchronously retrieve the content of a distant URL. This function is non-blocking, you'll get a CairoTask that you can discard at any time, and you'll get the content of the downloaded file as the first argument of the callback (the second being the data you passed to this function).

cURL	distant adress to get data from.
pCallback	function called when the download is finished. It takes the content of the downloaded file (it belongs to the task so don't free it) and the data you've set here.
data	data to be passed to the callback.

Returns

the Task that is doing the job. Keep it and use cairo_dock_discard_task whenever you want to discard the download (for instance if the user cancels it), or cairo_dock_free_task inside your callback.

5.45.4.7 cairo dock free package()

Destroy a package and free all its allocated memory.

Parameters

prackage I the package.	pPackage	the package.
-------------------------	----------	--------------

5.45.4.8 cairo_dock_list_packages()

Get a list of packages from differente sources.

Parameters

cSharePackagesDir	path of a local folder containg packages or NULL.
cUserPackagesDir	path of a user folder containg packages or NULL.
cDistantPackagesDir	path of a distant folder containg packages or NULL.
pTable	a table of packages previously retrieved, or NULL.

Returns

a hash table of (name, CairoDockPackage). Free it with g hash table destroy when you're done with it.

5.45.4.9 cairo_dock_list_packages_async()

Asynchronously get a list of packages from differente sources. This function is non-blocking, you'll get a CairoTask that you can discard at any time, and you'll get a hash-table of the packages as the first argument of the callback (the second being the data you passed to this function).

Parameters

cSharePackagesDir	path of a local folder containg packages or NULL.
cUserPackagesDir	path of a user folder containg packages or NULL.
cDistantPackagesDir	path of a distant folder containg packages or NULL.
pCallback	function called when the listing is finished. It takes the hash-table of the found packages (it belongs to the task so don't free it) and the data you've set here.
data	data to be passed to the callback.
pTable	a table of packages previously retrieved, or NULL.

Returns

the Task that is doing the job. Keep it and use cairo_dock_discard_task whenever you want to discard the download (for instance if the user cancels it), or cairo_dock_free_task inside your callback.

5.45.4.10 cairo_dock_get_package_path()

Look for a package with a given name into differente sources. If the package is found on the server and is not present on the disk, or is not up to date, then it is downloaded and the local path is returned.

Parameters

cPackageName	name of the package.
cSharePackagesDir	path of a local folder containing packages or NULL.
cUserPackagesDir	path of a user folder containing packages or NULL.
cDistantPackagesDir	path of a distant folder containg packages or NULL.
iGivenType	type of package, or CAIRO_DOCK_ANY_PACKAGE if any type of package should be considered.

Returns

a newly allocated string containing the complete local path of the package. If the package is distant, it is downloaded and extracted into this folder.

5.46 cairo-dock-particle-system.h File Reference

Data Structures

• struct _CairoParticle

A particle of a particle system.

• struct _CairoParticleSystem

A particle system.

Macros

#define cairo_dock_render_particles(pParticleSystem)

Typedefs

typedef struct <u>CairoParticle</u> CairoParticle

A particle of a particle system.

• typedef struct _CairoParticleSystem CairoParticleSystem

A particle system.

• typedef void() CairoDockRewindParticleFunc(CairoParticle *pParticle, double dt)

Function that re-initializes a particle when its life is over.

Functions

- void cairo dock render particles full (CairoParticleSystem *pParticleSystem, int iDepth)
- CairoParticleSystem * cairo_dock_create_particle_system (int iNbParticles, GLuint iTexture, double fWidth, double fHeight)
- void cairo_dock_free_particle_system (CairoParticleSystem *pParticleSystem)
- gboolean cairo_dock_update_default_particle_system (CairoParticleSystem *pParticleSystem, CairoDockRewindParticleFunc pRewindParticle)

5.46.1 Detailed Description

A Particle System is a set of particles that evolve according to a given model. Each particle will see its parameters change with time: direction, speed, oscillation, color, size, etc. Particle Systems fully take advantage of OpenGL and are able to render many thousands of particles at a high frequency refresh.

5.46.2 Macro Definition Documentation

5.46.2.1 cairo_dock_render_particles

Render all the particles of a particle system.

Parameters

pParticleSystem	the particle system.
-----------------	----------------------

5.46.3 Function Documentation

5.46.3.1 cairo_dock_render_particles_full()

```
void cairo_dock_render_particles_full (
```

```
CairoParticleSystem * pParticleSystem,
int iDepth )
```

Render all the particles of a particle system with a given depth.

Parameters

pParticleSystem	the particle system.
iDepth	depth of the particles that will be rendered. If set to -1, only particles with a negative z will be rendered, if set to 1, only particles with a positive z will be rendered, if set to 0, all the particles will be rendered.

5.46.3.2 cairo_dock_create_particle_system()

```
CairoParticleSystem * cairo_dock_create_particle_system (
    int iNbParticles,
    GLuint iTexture,
    double fWidth,
    double fHeight )
```

Create a particle system.

Parameters

iNbParticles	number of particles of the system.
iTexture	texture to map on each particle.
fWidth	width of the system.
fHeight	height of the system.

Returns

a newly allocated particle system.

5.46.3.3 cairo_dock_free_particle_system()

Destroy a particle system, freeing all the ressources it was using.

Parameters

pParticleSystem	the particle system.

5.46.3.4 cairo_dock_update_default_particle_system()

```
{\tt gboolean\ cairo\_dock\_update\_default\_particle\_system\ (}
```

```
CairoParticleSystem * pParticleSystem,
CairoDockRewindParticleFunc pRewindParticle )
```

Update a particle system to the next step with a generic particle behavior model. You can write your own model depending on your needs.

Parameters

pParticleSystem	the particle system.
pRewindParticle	function called on a particle when its life is over.

Returns

TRUE if some particles are still alive.

5.47 cairo-dock-separator-manager.h File Reference

Macros

• #define GLDI_OBJECT_IS_SEPARATOR_ICON(obj)

5.47.1 Detailed Description

This class handles the Separator Icons, which are user icons doing nothing.

5.47.2 Macro Definition Documentation

5.47.2.1 GLDI_OBJECT_IS_SEPARATOR_ICON

Say if an object is a SeparatorIcon.

Parameters

```
obj the object.
```

Returns

TRUE if the object is a SeparatorIcon.

5.48 cairo-dock-stack-icon-manager.h File Reference

Macros

• #define GLDI_OBJECT_IS_STACK_ICON(obj)

5.48.1 Detailed Description

This class handles the Stack Icons, which are user icons pointing to a sub-dock.

5.48.2 Macro Definition Documentation

5.48.2.1 GLDI_OBJECT_IS_STACK_ICON

Say if an object is a StackIcon.

Parameters

```
obj the object.
```

Returns

TRUE if the object is a Stacklcon.

5.49 cairo-dock-style-facility.h File Reference

Data Structures

• struct _GldiTextDescription

Description of the rendering of a text.

Macros

• #define GLDI_COLOR_SHADE_LIGHT

A light shade level (dock background, ...)

• #define GLDI_COLOR_SHADE_MEDIUM

A medium shade level (selected menu-item, widget inside a dialog/menu, separator, ...)

• #define GLDI_COLOR_SHADE_STRONG

A strong shade level (child widget inside a dialog/menu, ...)

Enumerations

• enum GldiStyleColors

Available types of color.

Functions

• void gldi_style_color_shade (GldiColor *icolor, double shade, GldiColor *ocolor)

5.49.1 Detailed Description

This file provides a few functions dealing with style elements like colors and text.

5.49.2 Function Documentation

5.49.2.1 gldi_style_color_shade()

Shade a color, making it darker if it's light, and lighter if it's dark. Note that the opposite behavior can be obtained by passing a negative shade value. Alpha is copied unchanged. Both pointers can be the same.

Parameters

icolor	input color
shade	amount of light to add/remove, <= 1.
ocolor	output color

5.50 cairo-dock-style-manager.h File Reference

Macros

• #define gldi_style_colors_set_bg_color(pCairoContext)

Enumerations

enum GldiStyleNotifications { NOTIFICATION_STYLE_CHANGED , NB_NOTIFICATIONS_STYLE } signals

Functions

- void gldi_style_color_get (GldiStyleColors iColorType, GldiColor *pColor)
- void gldi_style_colors_set_bg_color_full (cairo_t *pCairoContext, gboolean bUseAlpha)
- void gldi_style_colors_set_selected_bg_color (cairo_t *pCairoContext)
- void gldi_style_colors_set_line_color (cairo_t *pCairoContext)
- void gldi_style_colors_set_text_color (cairo_t *pCairoContext)
- void gldi style colors set separator color (cairo t *pCairoContext)
- void gldi_style_colors_set_child_color (cairo_t *pCairoContext)
- void gldi_style_colors_paint_bg_color_with_alpha (cairo_t *pCairoContext, int iWidth, double fAlpha)

5.50.1 Detailed Description

This class defines the global style used by all widgets (Docks, Dialogs, Desklets, Menus, Icons). This includes background color, outline color, text color, linewidth, corner radius.

5.50.2 Macro Definition Documentation

5.50.2.1 gldi_style_colors_set_bg_color

Set the global background color on a context.

Parameters

pCairoContext a context

5.50.3 Enumeration Type Documentation

5.50.3.1 GldiStyleNotifications

```
enum GldiStyleNotifications
```

signals

Enumerator

5.50.4 Function Documentation

5.50.4.1 gldi_style_color_get()

Get the value of a color. In case the color is actually a pattern, it gives its dominant color. This function is really only useful when you need to have a color for sure (rather than potentially a pattern/texture), or when you need to apply the color with some transformation. Most of the time, you only want to use the gldi_style_colors_set_* functions.

Parameters

iColorType	type of the color
pColor	output color

5.50.4.2 gldi_style_colors_set_bg_color_full()

```
void gldi_style_colors_set_bg_color_full (
```

```
cairo_t * pCairoContext,
gboolean bUseAlpha )
```

Set the global background color on a context, with or without the alpha component.

Parameters

pCairoContext	a context
bUseAlpha	TRUE to use the alpha, FALSE to set it fully opaque

5.50.4.3 gldi_style_colors_set_selected_bg_color()

Set the global selected color on a context.

Parameters

pCairoContext	a context
---------------	-----------

5.50.4.4 gldi_style_colors_set_line_color()

Set the global line color on a context.

Parameters

pCairoContext	a context
---------------	-----------

5.50.4.5 gldi_style_colors_set_text_color()

Set the global text color on a context.

Parameters

|--|

5.50.4.6 gldi_style_colors_set_separator_color()

```
{\tt void gldi\_style\_colors\_set\_separator\_color} \ (
```

```
cairo_t * pCairoContext )
```

Set the global separator color on a context.

Parameters

```
pCairoContext a context
```

5.50.4.7 gldi_style_colors_set_child_color()

Set the global child color on a context.

Parameters

pCairoContext	a context
---------------	-----------

5.50.4.8 gldi_style_colors_paint_bg_color_with_alpha()

Paint a context with a horizontal alpha gradation. If the alpha is negative, the global style is used to find the alpha.

Parameters

pCairoContext	a context
iWidth	width of the gradation
fAlpha	alpha to use

5.51 cairo-dock-surface-factory.h File Reference

Macros

- #define CAIRO_DOCK_ORIENTATION_MASK
 - mask to get the orientation from a CairoDockLoadImageModifier.
- #define cairo_dock_create_surface_for_square_icon(clmagePath, flmageSize)
- #define cairo_dock_create_surface_from_text(cText, pLabelDescription, iTextWidthPtr, iTextHeightPtr)

Enumerations

```
    enum CairoDockLoadImageModifier {
        CAIRO_DOCK_FILL_SPACE,
        CAIRO_DOCK_KEEP_RATIO,
        CAIRO_DOCK_DONT_ZOOM_IN,
        CAIRO_DOCK_ORIENTATION_HFLIP,
        CAIRO_DOCK_ORIENTATION_ROT_180,
        CAIRO_DOCK_ORIENTATION_VFLIP,
        CAIRO_DOCK_ORIENTATION_ROT_90_HFLIP,
        CAIRO_DOCK_ORIENTATION_ROT_90,
        CAIRO_DOCK_ORIENTATION_ROT_90,
        CAIRO_DOCK_ORIENTATION_ROT_90_VFLIP,
        CAIRO_DOCK_ORIENTATION_ROT_270,
        CAIRO_DOCK_ANIMATED_IMAGE }
```

Types of image loading modifiers.

Functions

- cairo_surface_t * cairo_dock_create_surface_from_xicon_buffer (gulong *pXlconBuffer, int iBufferNb⇔ Elements, int iWidth, int iHeight)
- cairo_surface_t * cairo_dock_create_surface_from_pixbuf (GdkPixbuf *pixbuf, double fMaxScale, int i
 WidthConstraint, int iHeightConstraint, CairoDockLoadImageModifier iLoadingModifier, double *fImage
 Width, double *fImageHeight, double *fZoomX, double *fZoomY)
- cairo surface t * cairo dock create blank surface full (int iWidth, int iHeight, cairo t *pSourceContext)
- GdkPixbuf * cairo_dock_load_gdk_pixbuf (const gchar *clmagePath, int iWidth, int iHeight)
- GdkPixbuf * cairo_dock_load_gdk_pixbuf_with_max_size (const gchar *cImagePath, int iMaxWidth, int i
 MaxHeight)
- cairo_surface_t * cairo_dock_create_surface_from_image (const gchar *cImagePath, double fMaxScale, int iWidthConstraint, int iHeightConstraint, CairoDockLoadImageModifier iLoadingModifier, double *fImage← Width, double *fImageHeight, double *fZoomX, double *fZoomY)
- cairo_surface_t * cairo_dock_create_surface_from_icon (const gchar *clmagePath, double flmageWidth, double flmageHeight)
- cairo_surface_t * cairo_dock_create_surface_from_pattern (const gchar *clmageFile, double flmageWidth, double flmageHeight, double fAlpha)
- cairo_surface_t * cairo_dock_rotate_surface (cairo_surface_t *pSurface, double flmageWidth, double f
 ImageHeight, double fRotationAngle)
- cairo_surface_t * cairo_dock_create_surface_from_text_full (const gchar *cText, GldiTextDescription *p←
 LabelDescription, double fMaxScale, int iMaxWidth, int *iTextWidth, int *iTextHeight)
- cairo_surface_t * cairo_dock_duplicate_surface (cairo_surface_t *pSurface, double fWidth, double fHeight, double fDesiredWidth, double fDesiredHeight)

5.51.1 Detailed Description

This class contains functions to load any image/X buffer/GdkPixbuf/text into a cairo-surface. The loading of an image can be modified by a mask, to take into account the ratio, zoom, orientation, etc.

The general way to load an image is by using cairo_dock_create_surface_from_image.

If you just want to load an image at a given size, use cairo_dock_create_surface_from_image_simple, or cairo_dock_create_surface_from_icon.

To load a text into a surface, describe your text look with a GldiTextDescription, and pass it to cairo dock create surface from text.

Note: if you also need to load the image into a texture, it's easier to use the higher level ImageBuffer API (see cairo_dock_create_image_buffer).

5.51.2 Macro Definition Documentation

5.51.2.1 cairo_dock_create_surface_for_square_icon

Create a square surface from any image, at a given size. If the image is given by its sole name, it is searched inside the icons themes known by Cairo-Dock.

Parameters

clmagePath	path or name of an image.
flmageSize	the desired surface size.

Returns

the newly allocated surface.

5.51.2.2 cairo_dock_create_surface_from_text

Create a surface representing a text, according to a given text description.

Parameters

cText	the text.
pLabelDescription	description of the text rendering.
iTextWidthPtr	will be filled the width of the resulting surface.
iTextHeightPtr	will be filled the height of the resulting surface.

Returns

the newly allocated surface.

5.51.3 Enumeration Type Documentation

5.51.3.1 CairoDockLoadImageModifier

```
\verb"enum CairoDockLoadImageModifier"
```

Types of image loading modifiers.

Enumerator

CAIRO_DOCK_FILL_SPACE	fill the space, with transparency if necessary.
CAIRO_DOCK_KEEP_RATIO	keep the ratio of the original image.
CAIRO_DOCK_DONT_ZOOM_IN	don't zoom in the image if the final surface is larger than the original image.
CAIRO_DOCK_ORIENTATION_HFLIP	orientation horizontal flip
CAIRO_DOCK_ORIENTATION_ROT_180	orientation 180° rotation
CAIRO_DOCK_ORIENTATION_VFLIP	orientation vertical flip
CAIRO_DOCK_ORIENTATION_ROT_90_HFLIP	orientation 90° rotation + horizontal flip
CAIRO_DOCK_ORIENTATION_ROT_90	orientation 90° rotation
CAIRO_DOCK_ORIENTATION_ROT_90_VFLIP	orientation 90° rotation + vertical flip
CAIRO_DOCK_ORIENTATION_ROT_270	orientation 270° rotation
CAIRO_DOCK_ANIMATED_IMAGE	load the image as a strip if possible.

5.51.4 Function Documentation

5.51.4.1 cairo_dock_create_surface_from_xicon_buffer()

Create a surface from raw data of an X icon. The biggest icon possible is taken. The ratio is kept, and the surface will fill the space with transparency if necessary.

Parameters

pXIconBuffer	raw data of the icon.	
iBufferNbElements	number of elements in the buffer.	
iWidth	will be filled with the resulting width of the surface.	
iHeight	will be filled with the resulting height of the surface.	

Returns

the newly allocated surface.

5.51.4.2 cairo_dock_create_surface_from_pixbuf()

```
double * fImageHeight,
double * fZoomX,
double * fZoomY )
```

Create a surface from a GdkPixbuf.

Parameters

pixbuf	the pixbuf.
fMaxScale	maximum zoom of the icon.
iWidthConstraint	constraint on the width, or 0 to not constraint it.
iHeightConstraint	constraint on the height, or 0 to not constraint it.
iLoadingModifier	a mask of different loading modifiers.
flmageWidth	will be filled with the resulting width of the surface (hors zoom).
flmageHeight	will be filled with the resulting height of the surface (hors zoom).
fZoomX	if non NULL, will be filled with the zoom that has been applied on width.
fZoomY	if non NULL, will be filled with the zoom that has been applied on width.

Returns

the newly allocated surface.

5.51.4.3 cairo_dock_create_blank_surface_full()

```
cairo_surface_t * cairo_dock_create_blank_surface_full (
    int iWidth,
    int iHeight,
    cairo_t * pSourceContext )
```

Create an empty surface (transparent) of a given size. In OpenGL mode, this surface can act as a buffer to generate a texture.

Parameters

iWidth	width of the surface.
iHeight	height of the surface.

Returns

the newly allocated surface.

5.51.4.4 cairo_dock_load_gdk_pixbuf()

Simple helper to read an image into a GdkPixbuf.

Parameters

clmagePath	complete path to the image.
iWidth	desired width.
iHeight	desired height.

Returns

the image loaded into a GdkPixbuf.

If both iWidth and iHeight are -1, the image is loaded at its natural size, otherwise it's scaled (preserving the aspect ratio).

5.51.4.5 cairo dock load gdk pixbuf with max size()

Simple helper to read an image into a GdkPixbuf, constraining the maximum size to the given dimentions.

Parameters

clmagePa	complete path to the image.	
iMaxWidth	desired maximum width. If the loaded image is wider than this, it will be scaled to this width.	
iMaxHeigl	desired maximum height. If the loaded image is taller than this, it will be scaled to this height.	

Returns

the image loaded into a GdkPixbuf.

If both iWidth and iHeight are -1, the image is loaded at its natural size, otherwise it's scaled (preserving the aspect ratio).

5.51.4.6 cairo_dock_create_surface_from_image()

Create a surface from any image.

Parameters

clmagePath	complete path to the image.
fMaxScale	maximum zoom of the icon.
iWidthConstraint	constraint on the width, or 0 to not constraint it.
iHeightConstraint	constraint on the height, or 0 to not constraint it.
iLoadingModifier	a mask of different loading modifiers.
flmageWidth	will be filled with the resulting width of the surface (hors zoom).
flmageHeight	will be filled with the resulting height of the surface (hors zoom).
fZoomX	if non NULL, will be filled with the zoom that has been applied on width.
fZoomY	if non NULL, will be filled with the zoom that has been applied on width.

Returns

the newly allocated surface.

5.51.4.7 cairo_dock_create_surface_from_image_simple()

Create a surface from any image, at a given size. If the image is given by its sole name, it is searched inside the current theme root folder.

Parameters

clmageFile	path or name of an image.
flmageWidth	the desired surface width.
flmageHeight	the desired surface height.

Returns

the newly allocated surface.

5.51.4.8 cairo_dock_create_surface_from_icon()

Create a surface from any image, at a given size. If the image is given by its sole name, it is searched inside the icons themes known by Cairo-Dock.

clmagePath	path or name of an image.
flmageWidth Generated by Doxyger	the desired surface width.
flmageHeight	the desired surface height.

Returns

the newly allocated surface.

5.51.4.9 cairo_dock_create_surface_from_pattern()

Create a surface at a given size, and fill it with a pattern. If the pattern image is given by its sole name, it is searched inside the current theme root folder.

Parameters

clmageFile	path or name of an image that will be repeated to fill the surface.
flmageWidth	the desired surface width.
flmageHeight	the desired surface height.
fAlpha	transparency of the pattern (1 means opaque).

Returns

the newly allocated surface.

5.51.4.10 cairo_dock_rotate_surface()

Create a surface by rotating another. Only works for 1/4 of rounds.

Parameters

pSurface	surface to rotate.
flmageWidth	the width of the surface.
flmageHeight	the height of the surface.
fRotationAngle	rotation angle to apply, in radians.

Returns

the newly allocated surface.

5.51.4.11 cairo_dock_create_surface_from_text_full()

Create a surface representing a text, according to a given text description.

Parameters

cText	the text.	
pLabelDescription	description of the text rendering.	
fMaxScale	maximum zoom of the text.	
iMaxWidth	maximum authorized width for the surface; it will be zoomed in to fits this limit. 0 for no limit.	
iTextWidth	will be filled the width of the resulting surface.	
iTextHeight	will be filled the height of the resulting surface.	

Returns

the newly allocated surface.

5.51.4.12 cairo_dock_duplicate_surface()

Create a surface identical to another, possibly resizing it.

pSurface	surface to duplicate.
fWidth	the width of the surface.
fHeight	the height of the surface.
fDesiredWidth	desired width of the copy (0 to keep the same size).
fDesiredHeight	desired height of the copy (0 to keep the same size).

Returns

the newly allocated surface.

5.52 cairo-dock-task.h File Reference

Data Structures

struct GldiTask

Definition of a periodic and/or asynchronous Task.

Macros

- #define gldi_task_new(iPeriod, get_data, update, pSharedMemory)
- #define gldi task get elapsed time(pTask)

Typedefs

typedef void(* GldiGetDataAsyncFunc) (gpointer pSharedMemory)

Definition of the asynchronous job, that does the heavy part.

typedef gboolean(* GldiUpdateSyncFunc) (gpointer pSharedMemory)

Definition of the synchronous job, that update the dock with the results of the previous job. Returns TRUE to continue, FALSE to stop.

Functions

- void gldi_task_launch (GldiTask *pTask)
- void gldi_task_launch_delayed (GldiTask *pTask, guint delay)
- GldiTask * gldi_task_new_full (int iPeriod, GldiGetDataAsyncFunc get_data, GldiUpdateSyncFunc update, GFreeFunc free_data, gpointer pSharedMemory)
- void gldi_task_stop (GldiTask *pTask)
- void gldi_task_discard (GldiTask *pTask)
- void gldi task free (GldiTask *pTask)
- gboolean gldi_task_is_active (GldiTask *pTask)
- gboolean gldi_task_is_running (GldiTask *pTask)
- void gldi_task_change_frequency (GldiTask *pTask, int iNewPeriod)
- void gldi_task_change_frequency_and_relaunch (GldiTask *pTask, int iNewPeriod)
- void gldi_task_downgrade_frequency (GldiTask *pTask)
- void gldi_task_set_normal_frequency (GldiTask *pTask)

5.52.1 Detailed Description

An easy way to define periodic and asynchronous tasks, that can perform heavy jobs without blocking the dock.

A Task is divided in 2 phases:

- the asynchronous phase will be executed in another thread, while the dock continues to run on its own thread, in parallel. During this phase you will do all the heavy job (like downloading a file or computing something) but you can't interact on the dock.
- the synchronous phase will be executed after the first one has finished. There you will update your applet with the result of the first phase.

Attention

A data buffer is used to communicate between the 2 phases. It is important that these datas are never accessed outside the task, and vice versa that the asynchronous thread never accesses other data than this buffer.

If you want to access these datas outside the task, you have to copy them in a safe place during the 2nd phase, or to stop the task before (beware that stopping the task means waiting for the 1st phase to finish, which can take some time).

You create a Task with gldi_task_new, launch it with gldi_task_launch, and destroy it with gldi_task_free or gldi_task_discard.

A Task can be periodic if you specify a period, otherwise it will be executed once. It also can also be fully synchronous if you don't specify an asynchronous function.

5.52.2 Macro Definition Documentation

5.52.2.1 gldi task new

Create a periodic Task.

iPeriod	time between 2 iterations, possibly nul for a Task to be executed once only.	
get_data	asynchonous function, which carries out the heavy job parallel to the dock; stores the results in the shared memory.	
update	synchonous function, which carries out the update of the dock from the result of the previous function. Returns TRUE to continue, FALSE to stop.	
pSharedMemory	structure passed as a parameter of the get_data and update functions. Must not be accessed outside of these functions!	

Returns

the newly allocated Task, ready to be launched with gldi_task_launch. Free it with gldi_task_free or gldi_task_discard.

5.52.2.2 gldi_task_get_elapsed_time

```
\begin{tabular}{ll} \# define & gldi\_task\_get\_elapsed\_time ( \\ & pTask \end{tabular}) \label{table_get_get}
```

Get the time elapsed since the last time the Task has run.

Parameters

pTask	the periodic Task.
-------	--------------------

5.52.3 Function Documentation

5.52.3.1 gldi_task_launch()

```
void gldi_task_launch ( {\tt GldiTask} \ * \ pTask \ )
```

Launch a periodic Task, beforehand prepared with gldi_task_new. The first iteration is executed immediately. The frequency returns to its normal state.

Parameters

```
pTask the periodic Task.
```

5.52.3.2 gldi_task_launch_delayed()

Same as above but after a delay. If the delay is 0, the task will be launched as soon as the main loop becomes idle.

Parameters

pTask	the periodic Task.	
fDelay	delay in ms.	

5.52.3.3 gldi_task_new_full()

```
GldiGetDataAsyncFunc get_data,
GldiUpdateSyncFunc update,
GFreeFunc free_data,
gpointer pSharedMemory )
```

Create a periodic Task.

Parameters

iPeriod	time between 2 iterations, possibly nul for a Task to be executed once only.	
get_data	asynchonous function, which carries out the heavy job parallel to the dock; stores the results in the shared memory.	
update	synchonous function, which carries out the update of the dock from the result of the previous function. Returns TRUE to continue, FALSE to stop.	
free_data	function called when the Task is destroyed, to free the shared memory (optionnal).	
pSharedMemory	structure passed as a parameter of the get_data and update functions. Must not be accessed outside of these functions!	

Returns

the newly allocated Task, ready to be launched with gldi_task_launch. Free it with gldi_task_free or gldi_task_discard.

5.52.3.4 gldi_task_stop()

Stop a periodic Task. If the Task is running, it will wait until the asynchronous thread has finished, and skip the update. The Task can be launched again with a call to gldi_task_launch.

Parameters

```
pTask the periodic Task.
```

5.52.3.5 gldi_task_discard()

Discard a periodic Task. The asynchronous thread will continue, and the Task will be freed when it ends. The Task should be considered as destroyed after a call to this function. This function can be used inside the 'update' callback to destroy the Task.

5.52.3.6 gldi_task_free()

Stop and destroy a periodic Task, freeing all the allocated ressources. Unlike gldi_task_discard, the task is stopped before being freeed, so this is a blocking call. If you want to destroy the task inside the update callback, don't use this function; use gldi_task_discard instead.

Parameters

```
pTask the periodic Task.
```

5.52.3.7 gldi_task_is_active()

```
gboolean gldi_task_is_active ( {\tt GldiTask} \ * \ pTask \ )
```

Tell if a Task is active, that is to say is periodically called.

Parameters

```
pTask the periodic Task.
```

Returns

TRUE if the Task is active.

5.52.3.8 gldi_task_is_running()

Tell if a Task is running, that is to say it is either in the thread or waiting for the update.

Parameters

```
pTask the periodic Task.
```

Returns

TRUE if the Task is running.

5.52.3.9 gldi_task_change_frequency()

Change the frequency of a Task. The next iteration is re-scheduled according to the new period.

Parameters

pTask	the periodic Task.
iNewPeriod	the new period between 2 iterations of the Task, in s.

5.52.3.10 gldi_task_change_frequency_and_relaunch()

Change the frequency of a Task and relaunch it immediately. The next iteration is therefore immediately executed.

Parameters

pTask	the periodic Task.	
iNewPeriod	the new period between 2 iterations of the Task, in s, or -1 to let it unchanged.	

5.52.3.11 gldi_task_downgrade_frequency()

```
void gldi_task_downgrade_frequency ( {\tt GldiTask} \ * \ p{\tt Task} \ )
```

Downgrade the frequency of a Task. The Task will be executed less often (this is typically useful to put on stand-by a periodic measure).

Parameters

```
pTask the periodic Task.
```

5.52.3.12 gldi_task_set_normal_frequency()

Set the frequency of the Task to its normal state. This is also done automatically when launching the Task.

Parameters

p	Task	the periodic Task.

5.53 cairo-dock-themes-manager.h File Reference

Functions

• void cairo_dock_update_conf_file (const gchar *cConfFilePath, GType iFirstDataType,...)

- void cairo_dock_write_keys_to_conf_file (GKeyFile *pKeyFile, const gchar *cConfFilePath)
- gchar * cairo_dock_write_keys_to_new_conf_file (GKeyFile *pKeyFile, const gchar *cConfFilePath)
- gboolean cairo_dock_export_current_theme (const gchar *cNewThemeName, gboolean bSaveBehavior, gboolean bSaveLaunchers)
- gboolean cairo dock package current theme (const gchar *cThemeName, const gchar *cDirPath)
- gchar * cairo_dock_depackage_theme (const gchar *cPackagePath)
- gboolean cairo dock delete themes (gchar **cThemesList)
- gboolean cairo_dock_import_theme (const gchar *cThemeName, gboolean bLoadBehavior, gboolean b

 LoadLaunchers)
- GldiTask * cairo_dock_import_theme_async (const gchar *cThemeName, gboolean bLoadBehavior, gboolean bLoadLaunchers, CairoDockImportThemeCB pCallback, gpointer data)
- void cairo_dock_set_paths (gchar *cRootDataDirPath, gchar *cExtraDirPath, gchar *cThemesDirPath, gchar *cCurrentThemeDirPath, gchar *cLocalThemeDirPath, gchar *cDistantThemeDirName, gchar *cTheme
 ServerAdress)

5.53.1 Detailed Description

This class defines the structure of the global theme (launchers, icons, plug-ins, configuration files, etc). It also provides methods to manage the themes, like exporting the current theme, importing new themes, deleting themes, etc.

5.53.2 Function Documentation

5.53.2.1 cairo_dock_update_conf_file()

Update a conf file with a list of values of the form : $\{type, name of the groupe, name of the key, value\}$. Must end with $G_TYPE_INVALID$.

Parameters

cConfFilePath	path to the conf file.
iFirstDataType	type of the first value.

5.53.2.2 cairo_dock_write_keys_to_conf_file()

Write a key file on the disk.

Parameters

pKeyFile	the key-file
cConfFilePath	its path on the disk

5.53.2.3 cairo_dock_write_keys_to_new_conf_file()

Write a key file on the disk to a newly created configuration file.

Parameters

pKeyFile	the key-file
cConfFilePath	its path on the disk

Returns

The name of the new config file in a newly allocated string, or NULL on failure. If cConfFilePath does not exist, a new file is created using this path. If cConfFilePath already exists, a new filename is generated by using it as a template and adding a unique suffix, and the keyfile is written there instead.

5.53.2.4 cairo dock export current theme()

Export the current theme to a given name. Exported themes can be imported directly from the Theme Manager.

Parameters

cNewThemeName	name to export the theme to.
bSaveBehavior	whether to save the behavior parameters too.
bSaveLaunchers	whether to save the launchers too.

Returns

TRUE if the theme could be exported succefuly.

5.53.2.5 cairo dock package current theme()

Create a package of the current theme. Packages can be distributed easily, and imported into the dock by a mere drag and drop into the Theme Manager. The package is placed in the cDirPath directory (or \$HOME if cDirPath is wrong).

Parameters

cThemeName	name of the package.
cDirPath	path to the directory

Returns

TRUE if the theme could be packaged succefuly.

5.53.2.6 cairo_dock_depackage_theme()

Extract a package into the themes folder. Does not load it.

Parameters

cPackagePath path of a package. If the package is	distant, it is first downoladed.
---	----------------------------------

Returns

the path of the theme folder, or NULL if anerror occured.

5.53.2.7 cairo_dock_delete_themes()

Remove some exported themes from the hard-disk.

Parameters

cThemesList	a list of theme names, NULL-terminated.
-------------	---

Returns

TRUE if the themes has been succefuly deleted.

5.53.2.8 cairo_dock_import_theme()

Import a theme, which can be: a local theme, a user theme, a distant theme, or even the path to a packaged theme.

Parameters

cThemeName	name of the theme to import.
bLoadBehavior	whether to import the behavior parameters too.
bLoadLaunchers	whether to import the launchers too.

Returns

TRUE if the theme could be imported succefuly.

5.53.2.9 cairo_dock_import_theme_async()

Asynchronously import a theme, which can be: a local theme, a user theme, a distant theme, or even the path to a packaged theme. This function is non-blocking, you'll get a CairoTask that you can discard at any time, and you'll get the result of the import as the first argument of the callback (the second being the data you passed to this function). Note that only downloading or unpacking the theme is done asynchronously, actually copying the files in the current theme folder is not (because it couldn't be cancelled without first making a backup).

Parameters

cThemeName	name of the theme to import.
bLoadBehavior	whether to import the behavior parameters too.
bLoadLaunchers	whether to import the launchers too.
pCallback	function called when the download is finished. It takes the result of the import (TRUE for a successful import) and the data you've set here.
data	data to be passed to the callback.

Returns

the Task that is doing the job. Keep it and use cairo_dock_discard_task if you want to discard the download before it's completed (for instance if the user cancels it), or cairo_dock_free_task inside your callback.

5.53.2.10 cairo dock set paths()

Define the paths of themes. Do it just after 'gldi_init'.

Parameters

cRootDataDirPath	path to the root folder of libgldi
cExtraDirPath	path to the extras themes (plug-in themes)
cThemesDirPath	path to the user themes
cCurrentThemeDirPath	path to the current theme
cLocalThemeDirPath	path to the installed themes (default themes)
cDistantThemeDirName	folder of the themes on the server
cThemeServerAdress	adress of the themes server

5.54 cairo-dock-user-icon-manager.h File Reference

Macros

• #define GLDI_OBJECT_IS_USER_ICON(obj)

5.54.1 Detailed Description

This class handles the User Icons. These are Icons belonging to the user (like launchers, stack-icons, separators), and that have a config file. The config file contains at least the dock the icon belongs to and the position inside the dock.

5.54.2 Macro Definition Documentation

5.54.2.1 GLDI_OBJECT_IS_USER_ICON

Say if an object is a Userlcon.

Parameters

obj	the object.

Returns

TRUE if the object is a Userlcon.

5.55 cairo-dock-utils.h File Reference

Data Structures

struct _GldiChildProcessManagerBackend

Enumerations

• enum GldiLaunchFlags { }

Functions

- gboolean cairo_dock_remove_version_from_string (gchar *cString)
- void cairo_dock_remove_html_spaces (gchar *cString)
- void cairo_dock_get_version_from_string (const gchar *cVersionString, int *iMajorVersion, int *iMinor←
 Version, int *iMicroVersion)
- gboolean cairo_dock_string_is_address (const gchar *cString)
- gboolean cairo_dock_launch_command_argv_full (const gchar *const *args, const gchar *cWorking← Directory, GldiLaunchFlags flags)
- gboolean cairo_dock_launch_command_argv_full2 (const gchar *const *args, const gchar *cWorking←
 Directory, GldiLaunchFlags flags, GAppInfo *app_info)
- const gchar * cairo_dock_get_default_terminal (void)

5.55.1 Detailed Description

Some helper functions.

5.55.2 Enumeration Type Documentation

5.55.2.1 GldiLaunchFlags

```
enum GldiLaunchFlags
```

Flags given to cairo_dock_launch_command_argv_full()

Enumerator

GLDI_LAUNCH_GUI	This is a GUI app, use GdkAppLaunchContext to create an activation token for it.
GLDI_LAUNCH_SLICE	This is a potentially long-lived app, try to put it in a separate process accounting group with the session manager. Currently, this is only supported on systemd and means starting the app as a separate, transient service. This has the effect that e.g. resource use is accounted separately, and the app is not automatically killed if cairo-dock exits.

5.55.3 Function Documentation

5.55.3.1 cairo dock remove version from string()

```
gboolean cairo_dock_remove_version_from_string ( {\tt gchar} \, * \, {\tt cString} \, \, )
```

Remove the version number from a string. Directly modifies the string.

Parameters

cString	a string.
---------	-----------

Returns

TRUE if a version has been removed.

5.55.3.2 cairo_dock_remove_html_spaces()

Replace the %20 by normal spaces into the string. The string is directly modified.

Parameters

```
cString the string (it can't be a constant string)
```

5.55.3.3 cairo_dock_get_version_from_string()

Get the 3 version numbers of a string.

Parameters

cVersionString	the string of the form "x.y.z".
iMajorVersion	pointer to the major version.
iMinorVersion	pointer to the minor version.
iMicroVersion	pointer to the micro version.

5.55.3.4 cairo_dock_string_is_address()

Say if a string is an adress (file://xxx, http://xxx, ftp://xxx, etc).

Parameters

cString a string.

Returns

TRUE if it's an address.

5.55.3.5 cairo_dock_launch_command_argv_full()

Launch the given command asynchronously (i.e. do not wait for it to exit).

Parameters

args	Argument vector with the executable name and parameters to pass.
cWorkingDirectory	working directory to launch the command in.
flags	Additional options that determine how to launch the command.

Returns

Whether successfully launched the given command. Note: currently, this always returns TRUE if flags includes GLDI_LAUNCH_SLICE; do not rely on its value in this case.

5.55.3.6 cairo_dock_launch_command_argv_full2()

Launch the given command asynchronously (i.e. do not wait for it to exit).

Parameters

args	Argument vector with the executable name and parameters to pass.
cWorkingDirectory	working directory to launch the command in.
flags	Additional options that determine how to launch the command.
app_info	An optional GAppInfo that corresponds to the app to be launched. Used to generate a startup notify ID (if flags includes GLDI_LAUNCH_GUI) and to identify the app to the system service manager (if flags includes GLDI_LAUNCH_SLICE).

Returns

Whether successfully launched the given command. Note: currently, this always returns TRUE if flags includes GLDI_LAUNCH_SLICE; do not rely on its value in this case.

5.55.3.7 cairo_dock_get_default_terminal()

Get the command to launch the default terminal

5.56 cairo-dock-windows-manager.h File Reference

Data Structures

- struct _GldiWindowManagerBackend
 - Definition of the Windows Manager backend.
- struct _GldiWindowActor

Definition of a window actor.

Enumerations

 enum GldiWindowNotifications signals

Functions

- void gldi_windows_manager_register_backend (GldiWindowManagerBackend *pBackend)
- void gldi windows foreach (gboolean bOrderedByZ, GFunc callback, gpointer data)
- GldiWindowActor * gldi_windows_find (gboolean(*callback)(GldiWindowActor *, gpointer), gpointer data)
- GldiWindowActor * gldi_windows_get_active (void)
- void gldi_window_set_thumbnail_area (GldiWindowActor *actor, GldiContainer *pContainer, int x, int y, int w, int h)
- void gldi_window_get_menu_address (GldiWindowActor *actor, char **service_name, char **object_path)
- GPtrArray * gldi_window_manager_get_all (void)
- gboolean gldi_window_manager_have_coordinates (void)
- gboolean gldi_window_manager_can_track_workspaces (void)
- gboolean gldi_window_manager_is_position_relative_to_current_viewport (void)
- gboolean gldi_window_manager_can_move_to_desktop (void)

5.56.1 Detailed Description

This class manages the windows actors and notifies for any change on them.

5.56.2 Function Documentation

5.56.2.1 gldi_windows_manager_register_backend()

Register a Window Manager backend. NULL functions are simply ignored.

Parameters

pBackend a Window Manager backend

5.56.2.2 gldi_windows_foreach()

Run a function on each window actor.

Parameters

bOrderedByZ	TRUE to sort by z-order, FALSE to sort by age
callback	the callback
data	user data

5.56.2.3 gldi_windows_find()

Run a function on each window actor.

Parameters

callback	the callback (takes the actor and the data, returns TRUE to stop)
data	user data

Returns

the found actor, or NULL

5.56.2.4 gldi_windows_get_active()

Get the current active window actor.

Returns

the actor, or NULL if no window is currently active

5.56.2.5 gldi_window_set_thumbnail_area()

Set the position of this window's icon, to be used by the WM for its minimize animation. Note: coordinates are relative to the passed container's main surface.

5.56.2.6 gldi window get menu address()

Get the object path at which this window's app might export its global menus if supported by the backend.

Parameters

actor	the window whose menu is requested
service_name	return location for the dbus service name
object_path	return location for the object path Note: the returned values in service_name and object_path point to strings owned by this window actor instance and should not be modified or freed by the caller.

5.56.2.7 gldi_window_manager_get_all()

Get all currently managed windows as mebers of a GPtrArray.

Returns

a newly allocated GPtrArray with all windows (the order is unspecified); the caller should free this with g_ptr
_array_free()

5.56.2.8 gldi_window_manager_have_coordinates()

Check whether we can track windows' position.

Returns

whether GldiWindowActor::windowGeometry contains the actual window position; if FALSE, this should not be used

5.56.2.9 gldi_window_manager_can_track_workspaces()

Check whether we can track which workspace / viewport / desktop windows are present on.

Returns

whether GldiWindowActor::iNumDesktop, iViewPortX and iViewPortY contains valid information; if FALSE, these should not be used

5.56.2.10 gldi_window_manager_is_position_relative_to_current_viewport()

Check how window position coordinates should be interpreted. Result is only valud if gldi_window_manager_
have_coordinates () == TRUE as well.

Returns

whether window coordinates should be interpreted relative to the currently active workspace / viewport; if false, coordinates are relative to the workspace / viewport that the window is currently on

5.56.2.11 gldi_window_manager_can_move_to_desktop()

Check whether it is possible to move a window to another desktop / viewport.

Returns

TRUE if it is possible to move a window; if FALSE, gldi_window_move_to_current_desktop () and gldi_common window_move_to_desktop () will do nothing

5.57 gldi-icon-names.h File Reference

5.57.1 Detailed Description

This file lists the common named icons; these are generic icons that any icon-theme should provide, and they replace gtk-stock icons.

5.58 cairo-dock-cinnamon-integration.h File Reference

5.58.1 Detailed Description

This class implements the integration of Cinnamon inside Cairo-Dock.

5.59 cairo-dock-compiz-integration.h File Reference

5.59.1 Detailed Description

This class implements the integration of Compiz inside Cairo-Dock.

5.60 cairo-dock-default-view.h File Reference

5.60.1 Detailed Description

This class implements the Dock rendering interface and provides the "default" view.

5.61 cairo-dock-gauge.h File Reference

Typedefs

typedef struct _CairoGaugeAttribute CairoGaugeAttribute
 Attributes of a Gauge.

5.61.1 Detailed Description

This class defines the Gauge, which derives from the DataRenderer. All you need to know is the attributes that define a Gauge, the API to use is the common API for DataRenderer, defined in cairo-dock-data-renderer.h.

5.62 cairo-dock-gnome-shell-integration.h File Reference

5.62.1 Detailed Description

This class implements the integration of Gnome-Shell inside Cairo-Dock.

5.63 cairo-dock-graph.h File Reference

Data Structures

struct _CairoGraphAttribute
 Attributes of a Graph.

Enumerations

```
    enum CairoDockTypeGraph {
        CAIRO_DOCK_GRAPH_LINE ,
        CAIRO_DOCK_GRAPH_PLAIN ,
        CAIRO_DOCK_GRAPH_BAR ,
        CAIRO_DOCK_GRAPH_CIRCLE ,
        CAIRO_DOCK_GRAPH_CIRCLE_PLAIN }
        Types of graph.
```

5.63.1 Detailed Description

This class defines the Graph, which derives from the DataRenderer. All you need to know is the attributes that define a Graph, the API to use is the common API for DataRenderer, defined in cairo-dock-data-renderer.h.

5.63.2 Enumeration Type Documentation

5.63.2.1 CairoDockTypeGraph

enum CairoDockTypeGraph

Types of graph.

Enumerator

CAIRO_DOCK_GRAPH_LINE	a continuous line.
CAIRO_DOCK_GRAPH_PLAIN	a continuous plain graph.
CAIRO_DOCK_GRAPH_BAR	a histogram.
CAIRO_DOCK_GRAPH_CIRCLE	a circle.
CAIRO_DOCK_GRAPH_CIRCLE_PLAIN	a plain circle.

5.64 cairo-dock-hiding-effect.h File Reference

5.64.1 Detailed Description

This class implements the rendering interface for hiding docks.

5.65 cairo-dock-icon-container.h File Reference

5.65.1 Detailed Description

This class implements the rendering interface for icons pointing on a sub-dock.

5.66 cairo-dock-kwin-integration.h File Reference

5.66.1 Detailed Description

This class implements the integration of Kwin inside Cairo-Dock.

5.67 cairo-dock-progressbar.h File Reference

Data Structures

struct _CairoProgressBarAttribute
 Attributes of a PgrogressBar.

5.67.1 Detailed Description

This class defines the ProgressBar, which derives from the DataRenderer. All you need to know is the attributes that define a ProgressBar, the API to use is the common API for DataRenderer, defined in cairo-dock-data-renderer.h.

5.68 cairo-dock-wayfire-integration.h File Reference

5.68.1 Detailed Description

This class implements the integration of Wayfire inside Cairo-Dock.

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