

Cairo-Dock

3.3.0

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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 <http://doc.glx-dock.org>.

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
bzip2 -d cairo-dock-core.tar.gz
### compile 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 ..
bzip2 -d cairo-dock-plug-ins.tar.gz
### compile 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.

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 [_Icon](#) 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 Icons; 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.

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_DEFINITION` 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 resources, 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 resources 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*).

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.
- `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:

- **myIcon** : 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 resources 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.

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_SLOW_EVENT](#) 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 frequency 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 shortcut with the following macro: [CD_APPLET_BIND_KEY](#).

For instance, the GMenu applet displays the menu on ctrl+F1.

You get a `GldiShortcut` 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 : [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_CONTAINER](#).

1.5 Advanced fonctionnalités

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 conf file 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_DEFINE_BEGIN/CD_APPLET_DEFINE_END` section, add to the interface the 2 functions `plInterface->load_custom_widget` and `plInterface->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 applet 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`, `CairoDockGraph`, `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`, `myIcon`, 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 each time a `Dock` or a `Desklet`

is drawn. Register AFTER so that you will draw after the view.

Chapter 2

Data Structure Index

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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.

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.

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 te DataRenderer write the values [optionnal, by default the values are formatted with 2 decimals].
- [gpointer](#) [pFormatData](#)

- data to be passed to the format function [optional].*
- `gchar ** cEmblems`
an optional list of emblems to draw on the overlay.
- `gchar ** cLabels`
an optional 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`.

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`.

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.

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.

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.

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.

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 decorator. It draws the frame of the Dialog.

4.9.1 Detailed Description

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

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.

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.

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`
number of the screen the dock is placed on (-1 <=> all screen, >0 <=> num screen).
- `gint` `iIconSize`
icon size, as specified in the config of the dock
- `gboolean` `bGlobalIconSize`
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.
- `gdouble` `fBgColorBright` [4]
first color of the gradation
- `gdouble` `fBgColorDark` [4]
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 [blconIsFlyingAway](#)
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 edge, 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).*
- GldiShape * [pShapeBitmap](#)
 - input shape of the window when the dock is at rest.*
- GldiShape * [pHiddenShapeBitmap](#)
 - input shape of the window when the dock is hidden.*
- GldiShape * [pActiveShapeBitmap](#)
 - input shape of the window when the dock is active (NULL to cover all dock).*

4.11.1 Detailed Description

Definition of a Dock, which derives from a Container.

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

- [cairo-dock-dock-factory.h](#)

4.12 `_CairoDockClassAppli` Struct Reference

Definition of a Class of application.

Data Fields

- gboolean [bUseXIcon](#)
 - TRUE if the appli must use the icon provided by X instead the one from the theme.*
- gboolean [bExpand](#)
 - TRUE if the appli doesn't group together with its class.*
- GList * [pIconsOfClass](#)
 - List of the inhibitors of the class.*
- GList * [pAppliOfClass](#)
 - List of the appli icons of this class.*

4.12.1 Detailed Description

Definition of a Class of application.

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

- [cairo-dock-class-manager.h](#)

4.13 `_CairoDockDesktopEnvBackend` Struct Reference

Definition of the Desktop Environment backend.

4.13.1 Detailed Description

Definition of the Desktop Environment backend.

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

- [cairo-dock-file-manager.h](#)

4.14 `_CairoDockGLConfig` Struct Reference

This structure summarizes the available OpenGL configuration on the system.

4.14.1 Detailed Description

This structure summarizes the available OpenGL configuration on the system.

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

- [cairo-dock-opengl.h](#)

4.15 `_CairoDockGLFont` Struct Reference

Structure used to load a font for OpenGL text rendering.

4.15.1 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](#)

4.16 `_CairoDockGLPath` Struct Reference

Definition of a `CairoDockGLPath`.

4.16.1 Detailed Description

Definition of a `CairoDockGLPath`.

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

- [cairo-dock-opengl-path.h](#)

4.17 `_CairoDockGroupKeyWidget` Struct Reference

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

4.17.1 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](#)

4.18 `_CairoDockGuiBackend` Struct Reference

Definition of the GUI interface for modules.

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.

4.18.1 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](#)

4.19 `_CairoDockHidingEffect` Struct Reference

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

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 after the icons are drawn (cairo)*
 • `void(* post_render_opengl)(CairoDock *pDock, double fOffset)`
function called after the icons are drawn (opengl)
- `void(* init)(CairoDock *pDock)`
function called when the animation is started.

4.19.1 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](#)

4.20 `_CairoDockImageBuffer` Struct Reference

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

4.20.1 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](#)

4.21 `_CairoDockLabelDescription` Struct Reference

Description of the rendering of a text.

Data Fields

- `gint iSize`
font size (also approximately the resulting size in pixels)
- `gchar * cFont`
font.
- `PangoWeight iWeight`
text weight. The higher, the thicker the strokes are.
- `PangoStyle iStyle`
text style (italic or normal).
- `gdouble fColorStart [3]`
first color of the characters.
- `gdouble fColorStop [3]`
second color of the characters. If different from the first one, it will make a gradation.
- `gboolean bVerticalPattern`
TRUE if the gradation is vertical (from top to bottom).
- `gdouble fBackgroundColor [4]`
frame background color. Set the alpha channel to 0 to not draw a frame in the background.
- `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.

4.21.1 Detailed Description

Description of the rendering of a text.

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

- [cairo-dock-surface-factory.h](#)

4.22 [_CairoDockPackage](#) Struct Reference

Definition of a generic package.

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.

4.22.1 Detailed Description

Definition of a generic package.

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

- [cairo-dock-packages.h](#)

4.23 `_CairoDockRenderer` Struct Reference

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

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, optional).
- `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).
- `gchar *` [cReadmeFilePath](#)
path to a readme file that gives a short description of the view.
- `gchar *` [cPreviewFilePath](#)
path to a preview image.

4.23.1 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](#)

4.24 `_CairoDockTask` Struct Reference

Definition of a periodic and asynchronous Task.

Data Fields

- [gint iSidTimer](#)
ID of the timer of the Task (if periodic)
- [gint iSidTimerUpdate](#)
ID of the timer to perform the update.
- [CairoDockGetDataAsyncFunc get_data](#)
function carrying out the heavy job.
- [CairoDockUpdateSyncFunc update](#)
function carrying out the update of the dock. Returns TRUE to continue, FALSE to stop.
- [guint iPeriod](#)
interval of time in seconds, 0 to run the Task once.
- [CairoDockFrequencyState iFrequencyState](#)
state of the frequency of the Task.
- [gpointer pSharedMemory](#)
structure passed as parameter of the 'get_data' and 'update' functions. Must not be accessed outside of these 2 functions !
- [GTimer * pClock](#)
timer to get the accurate amount of time since last update.
- [double fElapsedTime](#)
time elapsed since last update.
- [GFreeFunc free_data](#)
function called when the task is destroyed to free the shared memory (optional).
- [gboolean bDiscard](#)
TRUE when the task has been discarded.

4.24.1 Detailed Description

Definition of a periodic and asynchronous Task.

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

- [cairo-dock-task.h](#)

4.25 _CairoDockTransition Struct Reference

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

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.

4.25.1 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](#)

4.26 `_CairoGraphAttribute` Struct Reference

Attributes of a Graph.

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.

4.26.1 Detailed Description

Attributes of a Graph.

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

- [cairo-dock-graph.h](#)

4.27 `_CairoIconContainerRenderer` Struct Reference

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

4.27.1 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](#)

4.28 `_CairoOverlay` Struct Reference

Definition of an Icon Overlay.

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

4.28.1 Detailed Description

Definition of an Icon Overlay.

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

- [cairo-dock-overlay.h](#)

4.29 `_CairoParticle` Struct Reference

A particle of a particle system.

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 `iInitialLife`
 - total life time.*

4.29.1 Detailed Description

A particle of a particle system.

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

- [cairo-dock-particle-system.h](#)

4.30 `_CairoParticleSystem` Struct Reference

A particle system.

4.30.1 Detailed Description

A particle system.

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

- [cairo-dock-particle-system.h](#)

4.31 `_CairoProgressBarAttribute` Struct Reference

Attributes of a `PprogressBar`.

Data Fields

- [CairoDataRendererAttribute](#) `rendererAttribute`
 - General attributes of any `DataRenderer`.*
- gchar * `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 bInverted`
invert default colors

4.31.1 Detailed Description

Attributes of a `PprogressBar`.

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

- [cairo-dock-progressbar.h](#)

4.32 `_GldiContainer` Struct Reference

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

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 bInside`
TRUE 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 fRatio`
zoom applied to the container's elements.
- `gboolean bUseReflect`

TRUE if the container has a reflection power.

- GLXContext `glContext`

OpenGL context.

- 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.

4.32.1 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](#)

4.33 `_GldiContainerManagerBackend` Struct Reference

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

4.33.1 Detailed Description

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

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

- [cairo-dock-container.h](#)

4.34 `_GldiDesktopBackground` Struct Reference

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

4.34.1 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](#)

4.35 `_GldiDesktopManagerBackend` Struct Reference

Definition of the Desktop Manager backend.

4.35.1 Detailed Description

Definition of the Desktop Manager backend.

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

- [cairo-dock-desktop-manager.h](#)

4.36 `_GldiManager` Struct Reference

Definition of a Manager.

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.

4.36.1 Detailed Description

Definition of a Manager.

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

- [cairo-dock-manager.h](#)

4.37 `_GldiModule` Struct Reference

Definition of an external module.

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 * [pInstancesList](#)
list of instances of the module.

4.37.1 Detailed Description

Definition of an external module.

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

- [cairo-dock-module-manager.h](#)

4.38 `_GldiModuleInstance` Struct Reference

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

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.

4.38.1 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](#)

4.39 [_GldiModuleInterface Struct Reference](#)

Definition of the interface of a module.

4.39.1 Detailed Description

Definition of the interface of a module.

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

- [cairo-dock-module-manager.h](#)

4.40 [_GldiObject Struct Reference](#)

Definition of an Object.

4.40.1 Detailed Description

Definition of an Object.

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

- [cairo-dock-object.h](#)

4.41 [_GldiObjectManager Struct Reference](#)

Definition of an ObjectManager.

4.41.1 Detailed Description

Definition of an ObjectManager.

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

- [cairo-dock-object.h](#)

4.42 [_GldiVisitCard Struct Reference](#)

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

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 `_GdiWindowActor` Struct Reference

Definition of a window actor.

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 `_GdiWindowManagerBackend` Struct Reference

Definition of the Windows Manager backend.

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 `_Icon` Struct Reference

Definition of an Icon.

Data Fields

- `GdiObject` `object`
object
- `CairoDockIconGroup` `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 _IconInterface Struct Reference

Icon's interface.

Data Fields

- `void(* load_image)(Icon *icon)`
function that loads the icon surface (and optionnally texture).
- `void(* action_on_drag_hover)(Icon *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](#)

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 *plcon, 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 *plcon, const gchar *cAnimation, int iNbRounds)
- void [gldi_icon_request_attention](#) (Icon *plcon, const gchar *cAnimation, int iNbRounds)
- void [gldi_icon_stop_attention](#) (Icon *plcon)

- void `cairo_dock_trigger_icon_removal_from_dock` (`Icon *plcon`)
- void `cairo_dock_set_transition_on_icon` (`Icon *plcon`, `GdiContainer *pContainer`, `CairoDockTransitionRenderFunc` `render_step_cairo`, `CairoDockTransitionGLRenderFunc` `render_step_opengl`, `gboolean bFastPace`, `gint iDuration`, `gboolean bRemoveWhenFinished`, `gpointer pUserData`, `GFreeFunc pFreeUserDataFunc`)
- void `cairo_dock_remove_transition_on_icon` (`Icon *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 (~33Hz) and slow (~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 `#define cairo_dock_container_is_animating(pContainer)`

Say if a container is currently animated.

Parameters

<i>pContainer</i>	a Container
-------------------	-------------

5.1.2.2 `#define cairo_dock_animation_will_be_visible(pDock)`

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

Parameters

<i>pDock</i>	the Dock to animate.
--------------	----------------------

5.1.2.3 `#define gldi_icon_stop_animation(plcon)`

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

Parameters

<i>plcon</i>	the icon
--------------	----------

5.1.2.4 `#define cairo_dock_get_animation_delta_t(pContainer)`

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

Parameters

<i>pContainer</i>	the container.
-------------------	----------------

5.1.2.5 `#define cairo_dock_get_slow_animation_delta_t(pContainer)`

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

Parameters

<i>pContainer</i>	the container.
-------------------	----------------

5.1.2.6 #define cairo_dock_has_transition(*plcon*)

Say if an Icon has a Transition.

Parameters

<i>plcon</i>	the icon.
--------------	-----------

Returns

TRUE if the icon has a Transition.

5.1.2.7 #define cairo_dock_get_transition_count(*plcon*)

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

Parameters

<i>plcon</i>	the icon.
--------------	-----------

Returns

the elapsed number of steps.

5.1.2.8 #define cairo_dock_get_transition_elapsed_time(*plcon*)

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

Parameters

<i>plcon</i>	the icon.
--------------	-----------

Returns

the elapsed time.

5.1.2.9 #define cairo_dock_get_transition_fraction(*plcon*)

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).

Parameters

<i>plcon</i>	the icon.
--------------	-----------

Returns

the elapsed time in [0,1].

5.1.3 Function Documentation

5.1.3.1 void cairo_dock_pop_up (CairoDock * *pDock*)

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

Parameters

<i>pDock</i>	the dock.
--------------	-----------

5.1.3.2 void cairo_dock_pop_down (CairoDock * pDock)

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

Parameters

<i>pDock</i>	the dock.
--------------	-----------

5.1.3.3 void cairo_dock_launch_animation (GldiContainer * pContainer)

Launch the animation of a Container.

Parameters

<i>pContainer</i>	the container to animate.
-------------------	---------------------------

5.1.3.4 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

<i>icon</i>	the icon to animate.
-------------	----------------------

5.1.3.5 void gldi_icon_request_animation (Icon * plcon, const gchar * cAnimation, int iNbRounds)

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

Parameters

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

5.1.3.6 void gldi_icon_request_attention (Icon * plcon, const gchar * cAnimation, int iNbRounds)

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

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

5.1.3.7 void gldi_icon_stop_attention (Icon * plcon)

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

Parameters

<i>plcon</i>	the icon
--------------	----------

5.1.3.8 void `cairo_dock_trigger_icon_removal_from_dock (Icon * plcon)`

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

<i>plcon</i>	the icon to remove
--------------	--------------------

5.1.3.9 void `cairo_dock_set_transition_on_icon (Icon * plcon, GldiContainer * pContainer, CairoDockTransitionRenderFunc render_step_cairo, CairoDockTransitionGLRenderFunc render_step_opengl, gboolean bFastPace, gint iDuration, gboolean bRemoveWhenFinished, gpointer pUserData, GFreeFunc pFreeUserDataFunc)`

Set a Transition on an Icon.

Parameters

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

5.1.3.10 void `cairo_dock_remove_transition_on_icon (Icon * plcon)`

Stop and remove the Transition of an Icon.

Parameters

<i>plcon</i>	the icon.
--------------	-----------

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

Macros

- #define [CD_APPLET_DEFINE_ALL_BEGIN](#)(cName, iMajorVersion, iMinorVersion, iMicroVersion, iAppletCategory, cDescription, cAuthor)
- #define [CD_APPLET_DEFINE_END](#)
- #define [CD_APPLET_DEFINITION](#)(cName, iMajorVersion, iMinorVersion, iMicroVersion, 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
- #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 `#define CD_APPLET_DEFINE_ALL_BEGIN(_cName, _iMajorVersion, _iMinorVersion, _iMicroVersion, _iAppletCategory, _cDescription, _cAuthor)`

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 : myIcon, myDock, myDesklet, myContainer, et myDrawContext.

Parameters

<code>_cName</code>	nom de sous lequel l'applet sera enregistrée par Cairo-Dock.
<code>_iMajorVersion</code>	version majeure du dock nécessaire au bon fonctionnement de l'applet.
<code>_iMinorVersion</code>	version mineure du dock nécessaire au bon fonctionnement de l'applet.
<code>_iMicroVersion</code>	version micro du dock nécessaire au bon fonctionnement de l'applet.
<code>_iApplet-Category</code>	Catégorie de l'applet (CAIRO_DOCK_CATEGORY_ACCESSORY, CAIRO_DOCK_CATEGORY_DESKTOP, CAIRO_DOCK_CATEGORY_CONTROLLER)
<code>_cDescription</code>	description et mode d'emploi succinct de l'applet.
<code>_cAuthor</code>	nom de l'auteur et éventuellement adresse mail.

5.2.2.2 `#define CD_APPLET_DEFINE_END`

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

5.2.2.3 `#define CD_APPLET_DEFINITION(cName, iMajorVersion, iMinorVersion, iMicroVersion, iAppletCategory, cDescription, cAuthor)`

Fonction de pré-initialisation générique. Ne faut que définir l'applet (en appelant les 2 macros précédentes), la plupart du temps cela est suffisant.

5.2.2.4 `#define CD_APPLET_INIT_ALL_BEGIN(pApplet)`

Début de la fonction d'initialisation de l'applet (celle qui est appelée à chaque chargement de l'applet). Lis le fichier de conf de l'applet, et crée son icône ainsi que son contexte de dessin.

Parameters

<code>pApplet</code>	une instance du module.
----------------------	-------------------------

5.2.2.5 `#define CD_APPLET_INIT_END`

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

5.2.2.6 `#define CD_APPLET_STOP_BEGIN`

Début de la fonction d'arrêt de l'applet.

5.2.2.7 `#define CD_APPLET_STOP_END`

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

5.2.2.8 `#define CD_APPLET_RELOAD_ALL_BEGIN`

Début de la fonction de rechargement de l'applet.

5.2.2.9 `#define CD_APPLET_RELOAD_END`

Fin de la fonction de rechargement de l'applet.

5.2.2.10 #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).

5.2.2.11 #define CD_APPLET_GET_CONFIG_END

Fin de la fonction de configuration de l'applet.

5.2.2.12 #define CD_APPLET_RESET_CONFIG_ALL_BEGIN

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

5.2.2.13 #define CD_APPLET_RESET_CONFIG_ALL_END

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

5.2.2.14 #define CD_APPLET_RESET_DATA_BEGIN

Debut de la fonction de liberation des donnees internes.

5.2.2.15 #define CD_APPLET_RESET_DATA_ALL_END

Fin de la fonction de liberation des donnees internes.

5.2.2.16 #define CD_APPLET_ON_CLICK_BEGIN

Debut de la fonction de notification au clic gauche.

5.2.2.17 #define CD_APPLET_ON_CLICK_END

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

5.2.2.18 #define CD_APPLET_ON_BUILD_MENU_BEGIN

Debut de la fonction de notification de construction du menu.

5.2.2.19 #define CD_APPLET_ON_BUILD_MENU_END

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

5.2.2.20 #define CD_APPLET_ON_MIDDLE_CLICK_BEGIN

Debut de la fonction de notification du clic du milieu.

5.2.2.21 #define CD_APPLET_ON_MIDDLE_CLICK_END

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

5.2.2.22 #define CD_APPLET_ON_DOUBLE_CLICK_BEGIN

Debut de la fonction de notification du clic du milieu.

5.2.2.23 #define CD_APPLET_ON_DOUBLE_CLICK_END

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

5.2.2.24 #define CD_APPLET_ON_DROP_DATA_BEGIN

Debut de la fonction de notification du glisse-depose.

5.2.2.25 #define CD_APPLET_ON_DROP_DATA_END

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

5.2.2.26 #define CD_APPLET_ON_SCROLL_BEGIN

Debut de la fonction de notification au scroll.

5.2.2.27 #define CD_APPLET_ON_SCROLL_END

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

5.2.2.28 #define CD_APPLET_ON_UPDATE_ICON_BEGIN

Debut de la fonction de notification d'update icon.

5.2.2.29 #define CD_APPLET_ON_UPDATE_ICON_END

Fin de la fonction de notification d'update icon.

5.2.2.30 #define CD_APPLET_SKIP_UPDATE_ICON

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

5.2.2.31 #define CD_APPLET_STOP_UPDATE_ICON

Quit the update function immediately with no more updates.

5.2.2.32 #define CD_APPLET_PAUSE_UPDATE_ICON

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

5.2.2.33 #define CD_APPLET_REGISTER_FOR_CLICK_EVENT

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

5.2.2.34 #define CD_APPLET_UNREGISTER_FOR_CLICK_EVENT

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

5.2.2.35 #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.

5.2.2.36 #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.

5.2.2.37 #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.

5.2.2.38 #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.

5.2.2.39 #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.

5.2.2.40 #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.

5.2.2.41 #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.

5.2.2.42 #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.

5.2.2.43 #define CD_APPLET_REGISTER_FOR_SCROLL_EVENT

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

5.2.2.44 #define CD_APPLET_UNREGISTER_FOR_SCROLL_EVENT

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

5.2.2.45 #define CD_APPLET_REGISTER_FOR_UPDATE_ICON_SLOW_EVENT

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

5.2.2.46 #define CD_APPLET_UNREGISTER_FOR_UPDATE_ICON_SLOW_EVENT

Unregister the applet from the slow rendering loop.

5.2.2.47 #define CD_APPLET_REGISTER_FOR_UPDATE_ICON_EVENT

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

5.2.2.48 #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_WITH_DEFAULT](#)(cGroupName, cKeyName, pColorBuffer, pDefault-Color)
- #define [CD_CONFIG_GET_COLOR](#)(cGroupName, cKeyName, pColorBuffer)
- #define [CD_CONFIG_GET_COLOR_RVB_WITH_DEFAULT](#)(cGroupName, cKeyName, pColorBuffer, p-DefaultColor)
- #define [CD_CONFIG_GET_COLOR_RVB](#)(cGroupName, cKeyName, pColorBuffer)
- #define [CD_CONFIG_GET_THEME_PATH](#)(cGroupName, cKeyName, cThemeDirName, cDefaultTheme-Name)
- #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, cImage)
- #define [CD_APPLET_ADD_SUB_MENU](#)(cLabel, pMenu)
- #define [CD_APPLET_ADD_IN_MENU_WITH_STOCK_AND_DATA](#)(cLabel, gtkStock, pCallBack, pMenu, p-Data)
- #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`(cImagePath)
- #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`(cIconName)
- #define `CD_APPLET_SET_USER_IMAGE_ON_MY_ICON`(cIconName, cDefaultLocalImageName)
- #define `CD_APPLET_SET_DEFAULT_IMAGE_ON_MY_ICON_IF_NONE`
- #define `CD_APPLET_SET_NAME_FOR_MY_ICON`(cIconName)
- #define `CD_APPLET_SET_NAME_FOR_MY_ICON_PRINTF`(cIconNameFormat,...)
- #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`(cImageFile, 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 }`
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, Icon *plcon`)
- gboolean `cairo_dock_set_image_on_icon` (`cairo_t *plconContext, const gchar *clconName, Icon *plcon, GldiContainer *pContainer`)
- void `cairo_dock_set_image_on_icon_with_default` (`cairo_t *plconContext, const gchar *clmage, Icon *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 #define `cairo_dock_set_icon_surface(plconContext, pSurface, plcon)`

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

Parameters

<i>pIconContext</i>	the drawing context; is not altered by the function.
<i>pSurface</i>	the surface to apply.
<i>pIcon</i>	the icon.

5.3.2.2 #define CD_CONFIG_GET_BOOLEAN_WITH_DEFAULT(*cGroupName*, *cKeyName*, *bDefaultValue*)

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

Parameters

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

Returns

a gboolean.

5.3.2.3 #define CD_CONFIG_GET_BOOLEAN(*cGroupName*, *cKeyName*)

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

Parameters

<i>cGroupName</i>	name of the group in the conf file.
<i>cKeyName</i>	name of the key in the conf file.

Returns

a gboolean.

5.3.2.4 #define CD_CONFIG_GET_INTEGER_WITH_DEFAULT(*cGroupName*, *cKeyName*, *iDefaultValue*)

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

Parameters

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

Returns

an integer.

5.3.2.5 #define CD_CONFIG_GET_INTEGER(*cGroupName*, *cKeyName*)

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

Parameters

<i>cGroupName</i>	name of the group in the conf file.
<i>cKeyName</i>	name of the key in the conf file.

Returns

an integer.

5.3.2.6 #define CD_CONFIG_GET_DOUBLE_WITH_DEFAULT(*cGroupName*, *cKeyName*, *fDefaultValue*)

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

Parameters

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

Returns

a double.

5.3.2.7 #define CD_CONFIG_GET_DOUBLE(*cGroupName*, *cKeyName*)

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

Parameters

<i>cGroupName</i>	name of the group in the conf file.
<i>cKeyName</i>	name of the key in the conf file.

Returns

a double.

5.3.2.8 #define CD_CONFIG_GET_INTEGER_LIST(*cGroupName*, *cKeyName*, *iNbElements*, *iValueBuffer*)

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

Parameters

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

5.3.2.9 #define CD_CONFIG_GET_STRING_WITH_DEFAULT(*cGroupName*, *cKeyName*, *cDefaultValue*)

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

Parameters

<i>cGroupName</i>	name of the group in the conf file.
<i>cKeyName</i>	name of the key in the conf file.
<i>cDefaultValue</i>	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 #define CD_CONFIG_GET_STRING(cGroupName, cKeyName)

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

Parameters

<i>cGroupName</i>	name of the group in the conf file.
<i>cKeyName</i>	name of the key in the conf file.

Returns

a newly allocated string.

5.3.2.11 #define CD_CONFIG_GET_FILE_PATH(cGroupName, cKeyName, cDefaultFileName)

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

<i>cGroupName</i>	name of the group in the conf file.
<i>cKeyName</i>	name of the key in the conf file.
<i>cDefaultFileName</i>	default file if none is specified in the conf file.

Returns

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

5.3.2.12 #define CD_CONFIG_GET_STRING_LIST_WITH_DEFAULT(cGroupName, cKeyName, length, cDefaultValues)

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

Parameters

<i>cGroupName</i>	name of the group in the conf file.
<i>cKeyName</i>	name of the key in the conf file.
<i>length</i>	pointer to the number of strings that were extracted from the conf file.
<i>cDefaultValues</i>	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 freed with 'g_strfreev'.

5.3.2.13 #define CD_CONFIG_GET_STRING_LIST(cGroupName, cKeyName, length)

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

Parameters

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

Returns

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

5.3.2.14 #define CD_CONFIG_GET_COLOR_WITH_DEFAULT(*cGroupName*, *cKeyName*, *pColorBuffer*, *pDefaultColor*)

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

Parameters

<i>cGroupName</i>	name of the group in the conf file.
<i>cKeyName</i>	name of the key in the conf file.
<i>pColorBuffer</i>	a table of 4 'double' already allocated, that will be filled with the color components.
<i>pDefaultColor</i>	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 #define CD_CONFIG_GET_COLOR(*cGroupName*, *cKeyName*, *pColorBuffer*)

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

Parameters

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

5.3.2.16 #define CD_CONFIG_GET_COLOR_RVB_WITH_DEFAULT(*cGroupName*, *cKeyName*, *pColorBuffer*, *pDefaultColor*)

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

Parameters

<i>cGroupName</i>	name of the group in the conf file.
<i>cKeyName</i>	name of the key in the conf file.
<i>pColorBuffer</i>	a table of 3 'double' already allocated, that will be filled with the color components.
<i>pDefaultColor</i>	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 #define CD_CONFIG_GET_COLOR_RVB(*cGroupName*, *cKeyName*, *pColorBuffer*)

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

Parameters

<i>cGroupName</i>	name of the group in the conf file.
<i>cKeyName</i>	name of the key in the conf file.

<i>pColorBuffer</i>	a table of 3 'double' already allocated, that will be filled with the color components.
---------------------	---

5.3.2.18 #define CD_CONFIG_GET_THEME_PATH(*cGroupName*, *cKeyName*, *cThemeDirName*, *cDefaultThemeName*)

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

Parameters

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

Returns

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

5.3.2.19 #define CD_CONFIG_GET_GAUGE_THEME(*cGroupName*, *cKeyName*)

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

Parameters

<i>cGroupName</i>	name of the group (in the conf file).
<i>cKeyName</i>	name of the key (in the conf file).

Returns

Path to the theme, in a newly allocated string.

5.3.2.20 #define CD_CONFIG_RENAME_GROUP(*cGroupName*, *cNewGroupName*)

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

<i>cGroupName</i>	name of the group.
<i>cNewGroupName</i>	new name of the group.

5.3.2.21 #define CD_APPLET_ADD_SUB_MENU_WITH_IMAGE(*cLabel*, *pMenu*, *clmage*)

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

Parameters

<i>cLabel</i>	name of the sub-menu.
<i>pMenu</i>	GtkWidget of the menu we will add the sub-menu to..

<i>cImage</i>	name of an image (can be a path or a GtkStock).
---------------	---

Returns

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

5.3.2.22 #define CD_APPLET_ADD_SUB_MENU(cLabel, pMenu)

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

Parameters

<i>cLabel</i>	name of the sub-menu.
<i>pMenu</i>	GtkWidget of the menu we will add the sub-menu to..

Returns

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

5.3.2.23 #define CD_APPLET_ADD_IN_MENU_WITH_STOCK_AND_DATA(cLabel, gtkStock, pCallback, pMenu, pData)

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

Parameters

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

5.3.2.24 #define CD_APPLET_ADD_IN_MENU_WITH_DATA(cLabel, pCallback, pMenu, pData)

Create and add an entry to a menu.

Parameters

<i>cLabel</i>	name of the entry.
<i>pCallback</i>	function called when the user selects this entry.
<i>pMenu</i>	menu to add the entry to.
<i>pData</i>	data passed as parameter of the callback.

5.3.2.25 #define CD_APPLET_ADD_IN_MENU(cLabel, pCallback, pMenu)

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

Parameters

<i>cLabel</i>	name of the entry.
<i>pCallback</i>	function called when the user selects this entry.
<i>pMenu</i>	menu to add the entry to.

5.3.2.26 #define CD_APPLET_ADD_IN_MENU_WITH_STOCK(cLabel, gtkStock, pCallback, pMenu)

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

Parameters

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

5.3.2.27 #define CD_APPLET_ADD_SEPARATOR_IN_MENU(*pMenu*)

Create and add a separator to a menu.

5.3.2.28 #define CD_APPLET_POPUP_MENU_ON_MY_ICON(*pMenu*)

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

Parameters

<i>pMenu</i>	menu to show
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5.3.2.29 #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.

5.3.2.30 #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.

5.3.2.31 #define CD_APPLET_MY_CONF_FILE

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

5.3.2.32 #define CD_APPLET_MY_KEY_FILE

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

5.3.2.33 #define CD_APPLET_MY_CONFIG_CHANGED

TRUE if the conf file has changed before the reload.

5.3.2.34 #define CD_APPLET_MY_CONTAINER_TYPE_CHANGED

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

5.3.2.35 #define CD_APPLET_MY_OLD_CONTAINER

The previous Container.

5.3.2.36 #define CD_APPLET_CLICKED_ICON

The clicked Icon.

5.3.2.37 #define CD_APPLET_CLICKED_CONTAINER

The clicked Container.

5.3.2.38 #define CD_APPLET_SHIFT_CLICK

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

5.3.2.39 #define CD_APPLET_CTRL_CLICK

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

5.3.2.40 #define CD_APPLET_ALT_CLICK

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

5.3.2.41 #define CD_APPLET_MY_MENU

Main menu of the applet.

5.3.2.42 #define CD_APPLET_RECEIVED_DATA

Data received after a drop occurred (string).

5.3.2.43 #define CD_APPLET_SCROLL_UP

TRUE if the user scrolled up.

5.3.2.44 #define CD_APPLET_SCROLL_DOWN

TRUE if the user scrolled down.

5.3.2.45 #define CD_APPLET_BIND_KEY(*cShortcut*, *cDescription*, *cGroupName*, *cKeyName*, *handler*)

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

Parameters

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

Returns

the shortcutkey.

5.3.2.46 #define CD_APPLET_REDRAW_MY_ICON

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

5.3.2.47 #define CAIRO_DOCK_REDRAW_MY_CONTAINER

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

5.3.2.48 #define CD_APPLET_LOAD_SURFACE_FOR_MY_APPLET(*cImagePath*)

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

<i>cImagePath</i>	path or name of an image.
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Returns

the newly allocated surface.

5.3.2.49 #define CD_APPLET_LOAD_SURFACE_FOR_MY_APPLET_WITH_DEFAULT(*cUserName*, *cDefaultLocalImageName*)

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

<i>cUserName</i>	name or path of a user image.
<i>cDefaultLocalImageName</i>	default image

Returns

the newly allocated surface.

5.3.2.50 #define CD_APPLET_SET_SURFACE_ON_MY_ICON(*pSurface*)

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

Parameters

<i>pSurface</i>	the surface to draw on your icon.
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5.3.2.51 #define CD_APPLET_SET_IMAGE_ON_MY_ICON(*cIconName*)

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

<i>cIconName</i>	name of an icon or path to an image.
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5.3.2.52 `#define CD_APPLET_SET_USER_IMAGE_ON_MY_ICON(cIconName, cDefaultLocalImageName)`

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

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

5.3.2.53 `#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.

5.3.2.54 `#define CD_APPLET_SET_NAME_FOR_MY_ICON(cIconName)`

Set a new label on the applet's icon.

Parameters

<i>cIconName</i>	the label.
------------------	------------

5.3.2.55 `#define CD_APPLET_SET_NAME_FOR_MY_ICON_PRINTF(cIconNameFormat, ...)`

Set a new label on the applet's icon.

Parameters

<i>cIconNameFormat</i>	the label, in a 'printf'-like format.
...	values to be written in the string.

5.3.2.56 `#define CD_APPLET_SET_QUICK_INFO_ON_MY_ICON(cQuickInfo)`

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

Parameters

<i>cQuickInfo</i>	the quick-info. This is a small text (a few characters) that is superimposed on the icon.
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5.3.2.57 `#define CD_APPLET_SET_QUICK_INFO_ON_MY_ICON_PRINTF(cQuickInfoFormat, ...)`

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

Parameters

<i>cQuickInfo-Format</i>	the label, in a 'printf'-like format.
...	values to be written in the string.

5.3.2.58 #define CD_APPLET_SET_HOURS_MINUTES_AS_QUICK_INFO(*iTimeInSeconds*)

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

Parameters

<i>iTimeInSeconds</i>	the time in seconds.
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5.3.2.59 #define CD_APPLET_SET_MINUTES_SECONDES_AS_QUICK_INFO(*iTimeInSeconds*)

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

Parameters

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

5.3.2.60 #define CD_APPLET_SET_SIZE_AS_QUICK_INFO(*iSizeInBytes*)

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

Parameters

<i>iSizeInBytes</i>	the size in bytes, converted into a readable format.
---------------------	--

5.3.2.61 #define CD_APPLET_SET_STATIC_ICON

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

5.3.2.62 #define CD_APPLET_UNSET_STATIC_ICON

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

5.3.2.63 #define CD_APPLET_SET_ALWAYS_VISIBLE_ICON(*bAlwaysVisible*)

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

5.3.2.64 #define CD_APPLET_ANIMATE_MY_ICON(*cAnimationName*, *iAnimationLength*)

Launch an animation on the applet's icon.

Parameters

<i>cAnimation-Name</i>	name of the animation.
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<i>iAnimation- Length</i>	number of rounds the animation should be played.
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5.3.2.65 #define CD_APPLET_STOP_ANIMATING_MY_ICON

Stop any animation on the applet's icon.

5.3.2.66 #define CD_APPLET_DEMANDS_ATTENTION(*cAnimationName*, *iAnimationLength*)

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

<i>cAnimation- Name</i>	name of the animation.
<i>iAnimation- Length</i>	number of rounds the animation should be played, or 0 for an endless animation.

5.3.2.67 #define CD_APPLET_STOP_DEMANDING_ATTENTION

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

5.3.2.68 #define CD_APPLET_GET_MY_ICON_EXTENT(*iWidthPtr*, *iHeightPtr*)

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

Parameters

<i>iWidthPtr</i>	pointer to the width.
<i>iHeightPtr</i>	pointer to the height.

5.3.2.69 #define CD_APPLET_START_DRAWING_MY_ICON

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

5.3.2.70 #define CD_APPLET_START_DRAWING_MY_ICON_CAIRO

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

5.3.2.71 #define 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.
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5.3.2.72 #define 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.
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5.3.2.73 #define CD_APPLET_FINISH_DRAWING_MY_ICON

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

5.3.2.74 #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.

5.3.2.75 #define CD_APPLET_ADD_OVERLAY_ON_MY_ICON(*cImageFile*, *iPosition*)

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

Parameters

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

Returns

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

5.3.2.76 #define CD_APPLET_PRINT_OVERLAY_ON_MY_ICON(*cImageFile*, *iPosition*)

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

Parameters

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

Returns

TRUE if the overlay has been successfully printed.

5.3.2.77 #define CD_APPLET_REMOVE_OVERLAY_ON_MY_ICON(*iPosition*)

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

Parameters

<i>iPosition</i>	position of the overlay
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5.3.2.78 #define CD_APPLET_ADD_DATA_RENDERER_ON_MY_ICON(*pAttr*)

Add a Data Renderer the applet's icon.

Parameters

<i>pAttr</i>	the attributes of the Data Renderer. They allow you to define its properties.
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5.3.2.79 #define 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.

5.3.2.80 #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

<i>pValues</i>	the values, a table of double of the correct size.
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5.3.2.81 #define CD_APPLET_REMOVE_MY_DATA_RENDERER

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

5.3.2.82 #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.

5.3.2.83 #define CD_APPLET_MY_CONTAINER_IS_OPENGL

Say if the applet's container currently supports OpenGL.

5.3.2.84 #define CD_APPLET_SET_DESKLET_RENDERER_WITH_DATA(*cRendererName*, *pConfig*)

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

<i>cRendererName</i>	name of the renderer.
<i>pConfig</i>	configuration data for the renderer, or NULL.

5.3.2.85 #define CD_APPLET_SET_DESKLET_RENDERER(*cRendererName*)

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

<i>cRendererName</i>	name of the renderer.
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5.3.2.86 #define CD_APPLET_SET_STATIC_DESKLET

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

5.3.2.87 #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.

5.3.2.88 #define CD_APPLET_DELETE_MY_ICONS_LIST

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

5.3.2.89 #define CD_APPLET_REMOVE_ICON_FROM_MY_ICONS_LIST(*pIcon*)

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

Parameters

<i>pIcon</i>	the icon to remove.
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Returns

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

5.3.2.90 #define CD_APPLET_DETACH_ICON_FROM_MY_ICONS_LIST(*pIcon*)

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

Parameters

<i>pIcon</i>	the icon to remove.
--------------	---------------------

Returns

whether the icon has been removed or not.

5.3.2.91 #define CD_APPLET_LOAD_MY_ICONS_LIST(*pIconList*, *cDockRendererName*, *cDeskletRendererName*, *pDeskletRendererConfig*)

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.

Parameters

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

5.3.2.92 #define CD_APPLET_ADD_ICON_IN_MY_ICONS_LIST(*pIcon*)

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

<i>pIcon</i>	an icon.
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5.3.2.93 #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.

5.3.2.94 #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.

5.3.2.95 #define CD_APPLET_MANAGE_APPLICATION(*cApplicationClass*)

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

Parameters

<i>cApplication- Class</i>	the class of the application you wish to control (in lower case), or NULL to stop controlling any appli.
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5.3.2.96 #define D_(*message*)

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 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 void cairo_dock_set_icon_surface_full (*cairo_t* * *pIconContext*, *cairo_surface_t* * *pSurface*, double *fScale*, double *fAlpha*, *Icon* * *pIcon*)

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

Parameters

<i>pIconContext</i>	the drawing context; is not altered by the function.
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<i>pSurface</i>	the surface to apply.
<i>fScale</i>	zoom factor.
<i>fAlpha</i>	transparency in [0,1].
<i>pIcon</i>	the icon.

5.3.4.2 `gboolean cairo_dock_set_image_on_icon (cairo_t * pIconContext, const gchar * cIconName, Icon * pIcon, GldiContainer * pContainer)`

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

Parameters

<i>pIconContext</i>	the drawing context; is not altered by the function.
<i>cIconName</i>	name or path to an icon image.
<i>pIcon</i>	the icon.
<i>pContainer</i>	the container of the icon.

Returns

TRUE if everything went smoothly.

5.3.4.3 `void cairo_dock_set_image_on_icon_with_default (cairo_t * pIconContext, const gchar * cImage, Icon * pIcon, GldiContainer * pContainer, const gchar * cDefaultImagePath)`

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

<i>pIconContext</i>	the drawing context; is not altered by the function.
<i>cImage</i>	name of an image to apply on the icon.
<i>pIcon</i>	the icon.
<i>pContainer</i>	the container of the icon.
<i>cDefaultImagePath</i>	path to a default image.

5.3.4.4 `gchar* cairo_dock_get_human_readable_size (long long int iSizeInBytes)`

Convert a size in bytes into a readable format.

Parameters

<i>iSizeInBytes</i>	size in bytes.
---------------------	----------------

Returns

a newly allocated string.

5.3.4.5 `void cairo_dock_play_sound (const gchar * cSoundPath)`

Play a sound, through Alsa or PulseAudio.

Parameters

<i>cSoundPath</i>	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 #define GLDI_OBJECT_IS_APPLET_ICON(*obj*)

Say if an object is a AppletIcon.

Parameters

<i>obj</i>	the object.
------------	-------------

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](#) (GdiWindowActor *actor)
- void [cairo_dock_foreach_appli_icon](#) (GdiIconFunc 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 #define GLDI_OBJECT_IS_APPLI_ICON(*obj*)

Say if an object is an Applilcon.

Parameters

<i>obj</i>	the object.
------------	-------------

Returns

TRUE if the object is a AppliIcon.

5.5.3 Function Documentation

5.5.3.1 void cairo_dock_start_applications_manager (CairoDock * *pDock*)

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

Parameters

<i>pDock</i>	the main dock
--------------	---------------

5.5.3.2 GList* cairo_dock_get_current_applis_list (void)

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 Icon* cairo_dock_get_current_active_icon (void)

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

Returns

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

5.5.3.4 Icon* cairo_dock_get_appli_icon (GldiWindowActor * *actor*)

Get the icon of a given window, if any.

Parameters

<i>actor</i>	the window actor
--------------	------------------

Returns

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

5.5.3.5 void cairo_dock_foreach_appli_icon (GldilconFunc *pFunction*, gpointer *pUserData*)

Run a function on all Appli icons.

Parameters

<i>pFunction</i>	function to be called
<i>pUserData</i>	data passed to the function.

5.6 cairo-dock-cinnamon-integration.h File Reference

5.6.1 Detailed Description

This class implements the integration of Cinnamon inside Cairo-Dock.

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

Data Structures

- struct [_CairoDockClassAppli](#)
Definition of a Class of application.

Macros

- #define [cairo_dock_register_class](#)(cDesktopFile)

Functions

- void [gldi_window_foreach_inhibitor](#) (GldiWindowActor *actor, GldiIconRFunc callback, gpointer data)
- void [cairo_dock_set_data_from_class](#) (const gchar *cClass, Icon *plcon)

5.7.1 Detailed Description

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

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

5.7.2 Macro Definition Documentation

5.7.2.1 #define [cairo_dock_register_class](#)(*cDesktopFile*)

Register a class corresponding to a desktop file. Launchers can then derive from the class.

Parameters

<i>cDesktopFile</i>	the desktop file path or name; if it's a name or if the path couldn't be found, it will be searched in the common directories.
---------------------	--

Returns

the class ID in a newly allocated string.

5.7.3 Function Documentation

5.7.3.1 void `gldi_window_foreach_inhibitor` (`GldiWindowActor` * *actor*, `GldilconRFunc` *callback*, `gpointer` *data*)

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

Parameters

<i>actor</i>	the window actor
<i>callback</i>	function to be called
<i>data</i>	data passed to the callback

5.7.3.2 void `cairo_dock_set_data_from_class` (const gchar * *cClass*, Icon * *pIcon*)

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

Parameters

<i>cClass</i>	the class name
<i>pIcon</i>	the icon

5.8 cairo-dock-compiz-integration.h File Reference

5.8.1 Detailed Description

This class implements the integration of Compiz inside Cairo-Dock.

5.9 cairo-dock-config.h File Reference

Macros

- #define `cairo_dock_get_pango_weight_from_1_9`(iWeight)

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)

5.9.1 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 contains 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.

5.9.2 Macro Definition Documentation

5.9.2.1 #define `cairo_dock_get_pango_weight_from_1_9`(*iWeight*)

Convert an integer in [0,9] into a Pango text weight.

Parameters

<i>iWeight</i>	weight between 0 and 9.
----------------	-------------------------

5.9.3 Function Documentation

5.9.3.1 void cairo_dock_load_current_theme (void)

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.

5.9.3.2 gboolean cairo_dock_is_loading (void)

Say if Cairo-Dock is loading.

Returns

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

5.9.3.3 void cairo_dock_decrypt_string (const gchar * cEncryptedString, gchar ** cDecryptedString)

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

Parameters

<i>cEncrypted-String</i>	the encrypted string.
<i>cDecrypted-String</i>	the decrypted string.

5.9.3.4 void cairo_dock_encrypt_string (const gchar * cDecryptedString, gchar ** cEncryptedString)

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

Parameters

<i>cDecrypted-String</i>	the decrypted string.
<i>cEncrypted-String</i>	the encrypted string.

5.10 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_ENTER_ICON](#),
[NOTIFICATION_START_DRAG_DATA](#),
[NOTIFICATION_DROP_DATA](#),
[NOTIFICATION_MOUSE_MOVED](#),
[NOTIFICATION_KEY_PRESSED](#),
[NOTIFICATION_UPDATE](#),
[NOTIFICATION_UPDATE_SLOW](#),
[NOTIFICATION_RENDER](#) }

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)
- int [gldi_container_get_current_desktop_index](#) ([GldiContainer](#) *pContainer)
- void [gldi_container_move](#) ([GldiContainer](#) *pContainer, int iNumDesktop, int iAbsolutePositionX, int iAbsolutePositionY)
- gboolean [gldi_container_is_active](#) ([GldiContainer](#) *pContainer)
- void [gldi_container_present](#) ([GldiContainer](#) *pContainer)
- void [cairo_dock_redraw_container](#) ([GldiContainer](#) *pContainer)
- void [cairo_dock_redraw_container_area](#) ([GldiContainer](#) *pContainer, [GdkRectangle](#) *pArea)
- void [cairo_dock_redraw_icon](#) ([Icon](#) *icon)
- void [gldi_container_notify_drop_data](#) ([GldiContainer](#) *pContainer, gchar *cReceivedData, [Icon](#) *pPointedIcon, double fOrder)
- GtkWidget * [gldi_container_build_menu](#) ([GldiContainer](#) *pContainer, [Icon](#) *icon)

5.10.1 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.

5.10.2 Macro Definition Documentation

5.10.2.1 `#define CAIRO_DOCK_IS_CONTAINER(obj)`

Say if an object is a Container.

Parameters

<i>obj</i>	the object.
------------	-------------

Returns

TRUE if the object is a Container.

5.10.2.2 #define `gldi_container_enable_drop(pContainer, pCallback, data)`

Enable a Container to accept drag-and-drops.

Parameters

<i>pContainer</i>	a container.
<i>pCallback</i>	the function that will be called when some data is received.
<i>data</i>	data passed to the callback.

5.10.3 Enumeration Type Documentation

5.10.3.1 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}

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 an icon. data : {Icon, CairoDock, int}

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*, Icon, double*, CairoDock}

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.

5.10.4 Function Documentation

5.10.4.1 void `gdi_container_reserve_space` (`GdiContainer * 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*)

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

Parameters

<i>pContainer</i>	the container
<i>left</i>	
<i>right</i>	
<i>top</i>	
<i>bottom</i>	
<i>left_start_y</i>	
<i>left_end_y</i>	
<i>right_start_y</i>	
<i>right_end_y</i>	
<i>top_start_x</i>	
<i>top_end_x</i>	
<i>bottom_start_x</i>	
<i>bottom_end_x</i>	

5.10.4.2 int gldi_container_get_current_desktop_index (GldiContainer * pContainer)

Get the desktop and viewports a Container is placed on.

Parameters

<i>pContainer</i>	the container
-------------------	---------------

Returns

an index representing the desktop and viewports.

5.10.4.3 void gldi_container_move (GldiContainer * pContainer, int iNumDesktop, int iAbsolutePositionX, int iAbsolutePositionY)

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

<i>pContainer</i>	the container
<i>iNumDesktop</i>	desktop number
<i>iAbsolute-PositionX</i>	horizontal position on the virtual screen
<i>iAbsolute-PositionY</i>	vertical position on the virtual screen

5.10.4.4 gboolean gldi_container_is_active (GldiContainer * pContainer)

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

Parameters

<i>pContainer</i>	the container
-------------------	---------------

Returns

TRUE if the Container is the current active window.

5.10.4.5 void `gldi_container_present` (`GldiContainer * pContainer`)

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

Parameters

<i>pContainer</i>	the container
-------------------	---------------

5.10.4.6 void cairo_dock_redraw_container (GldiContainer * *pContainer*)

Clear and trigger the redraw of a Container.

Parameters

<i>pContainer</i>	the Container to redraw.
-------------------	--------------------------

5.10.4.7 void cairo_dock_redraw_container_area (GldiContainer * *pContainer*, GdkRectangle * *pArea*)

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

Parameters

<i>pContainer</i>	the Container to redraw.
<i>pArea</i>	the zone to redraw.

5.10.4.8 void cairo_dock_redraw_icon (Icon * *icon*)

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

Parameters

<i>icon</i>	l'icone a retracer.
-------------	---------------------

5.10.4.9 void gldi_container_notify_drop_data (GldiContainer * *pContainer*, gchar * *cReceivedData*, Icon * *pPointedIcon*, double *fOrder*)

Notify everybody that a drop has just occurred.

Parameters

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

5.10.4.10 GtkWidget* gldi_container_build_menu (GldiContainer * *pContainer*, Icon * *icon*)

Build the main menu of a Container.

Parameters

<i>icon</i>	the icon that was left-clicked, or NULL if none.
<i>pContainer</i>	the container that was left-clicked.

Returns

the menu.

5.11 cairo-dock-core.h File Reference

5.11.1 Detailed Description

This class instanciates the different core managers.

5.12 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)`

5.12.1 Detailed Description

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

5.12.2 Macro Definition Documentation

5.12.2.1 `#define GLDI_OBJECT_IS_DATA_RENDERER(obj)`

Say if an object is a DataRenderer.

Parameters

<i>obj</i>	the object.
------------	-------------

Returns

TRUE if the object is a DataRenderer.

5.12.3 Function Documentation

5.12.3.1 `CairoDockGLFont* cairo_dock_get_default_data_renderer_font (void)`

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

5.13 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](#)(pIcon)
- `#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](#) *pIcon, [GldiContainer](#) *pContainer, [cairo_t](#) *pCairoContext, double *pNewValues)
- void [cairo_dock_remove_data_renderer_on_icon](#) ([Icon](#) *pIcon)
- 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)

5.13.1 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](#).

5.13.2 Macro Definition Documentation

5.13.2.1 #define cairo_dock_get_icon_data_renderer(*plcon*)

Structure Access

5.13.2.2 #define CAIRO_DATA_RENDERER(*r*)

Get the elementary part of a Data Renderer

Parameters

<i>r</i>	a high level data renderer
----------	----------------------------

Returns

a CairoDataRenderer*

5.13.2.3 #define cairo_data_renderer_get_data(*pRenderer*)

Get the data of a Data Renderer

Parameters

<i>pRenderer</i>	a data renderer
------------------	-----------------

Returns

a CairoDataToRenderer*

5.13.2.4 #define CAIRO_DATA_RENDERER_ATTRIBUTE(*pAttr*)

Get the elementary part of a Data Renderer Attribute

Parameters

<i>pAttr</i>	a high level data renderer attribute
--------------	--------------------------------------

Returns

a CairoDataRendererAttribute*

5.13.2.5 #define cairo_data_renderer_get_nb_values(*pRenderer*)

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

Parameters

<i>pRenderer</i>	a data renderer
------------------	-----------------

Returns

number of values a DataRenderer displays

5.13.2.6 #define cairo_data_renderer_get_min_value(*pRenderer, i*)

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

Parameters

<i>pRenderer</i>	a data renderer
<i>i</i>	the number of the value

Returns

a double

5.13.2.7 #define cairo_data_renderer_get_max_value(*pRenderer*, *i*)

Get the upper range of the i-th value.

Parameters

<i>pRenderer</i>	a data renderer
<i>i</i>	the number of the value

Returns

a double

5.13.2.8 #define cairo_data_renderer_get_value(*pRenderer*, *i*, *t*)

Get the i-th value at the time t.

Parameters

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

Returns

a double

5.13.2.9 #define cairo_data_renderer_get_current_value(*pRenderer*, *i*)

Get the current i-th value.

Parameters

<i>pRenderer</i>	a data renderer
<i>i</i>	the number of the value

Returns

a double

5.13.2.10 #define cairo_data_renderer_get_previous_value(*pRenderer*, *i*)

Get the previous i-th value.

Parameters

<i>pRenderer</i>	a data renderer
<i>i</i>	the number of the value

Returns

a double

5.13.2.11 `#define cairo_data_renderer_get_normalized_value(pRenderer, i, t)`

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

Parameters

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

Returns

a double in [0,1]

5.13.2.12 `#define cairo_data_renderer_get_normalized_current_value(pRenderer, i)`

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

Parameters

<i>pRenderer</i>	a data renderer
<i>i</i>	the number of the value

Returns

a double in [0,1]

5.13.2.13 `#define cairo_data_renderer_get_normalized_previous_value(pRenderer, i)`

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

Parameters

<i>pRenderer</i>	a data renderer
<i>i</i>	the number of the value

Returns

a double in [0,1]

5.13.2.14 `#define cairo_data_renderer_get_normalized_current_value_with_latency(pRenderer, i)`

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

Parameters

<i>pRenderer</i>	a data renderer
<i>i</i>	the number of the value

Returns

a double in [0,1]

5.13.2.15 `#define cairo_data_renderer_format_value_full(pRenderer, i, cBuffer)`

Data Format Write a value in a readable text format.

Parameters

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

5.13.2.16 `#define cairo_data_renderer_format_value(pRenderer, i)`

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

Parameters

<i>pRenderer</i>	a data renderer
<i>i</i>	the number of the value

5.13.3 Function Documentation

5.13.3.1 `CairoDockGLFont* cairo_dock_get_default_data_renderer_font (void)`

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

5.13.3.2 `void cairo_dock_add_new_data_renderer_on_icon (Icon * pIcon, GldiContainer * pContainer, CairoDataRendererAttribute * pAttribute)`

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

<i>pIcon</i>	the icon
<i>pContainer</i>	the icon's container
<i>pAttribute</i>	attributes defining the Renderer

5.13.3.3 `void cairo_dock_render_new_data_on_icon (Icon * pIcon, GldiContainer * pContainer, cairo_t * pCairoContext, double * pNewValues)`

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

Parameters

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

5.13.3.4 void cairo_dock_remove_data_renderer_on_icon (Icon * *plcon*)

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

Parameters

<i>plcon</i>	the icon
--------------	----------

5.13.3.5 void cairo_dock_reload_data_renderer_on_icon (Icon * *plcon*, GdiContainer * *pContainer*)

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

<i>plcon</i>	the icon
<i>pContainer</i>	the icon's container

5.13.3.6 void cairo_dock_resize_data_renderer_history (Icon * *plcon*, int *iNewMemorySize*)

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

<i>plcon</i>	the icon
<i>iNewMemory-Size</i>	the new size of history

5.13.3.7 void cairo_dock_refresh_data_renderer (Icon * *plcon*, GdiContainer * *pContainer*)

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

Parameters

<i>plcon</i>	the icon
<i>pContainer</i>	the icon's container

5.14 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)
- gchar * [cairo_dock_dbus_get_uchar](#) (DBusGProxy *pDBusProxy, const gchar *cAccessor)
- void [cairo_dock_dbus_call](#) (DBusGProxy *pDBusProxy, const gchar *cCommand)

5.14.1 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.

5.14.2 Function Documentation

5.14.2.1 DBusGConnection* [cairo_dock_get_session_connection](#) (void)

Get the connection to the 'session' Bus.

Returns

the connection to the bus.

5.14.2.2 gboolean [cairo_dock_register_service_name](#) (const gchar * *cServiceName*)

Register a new service on the session bus.

Parameters

<i>cServiceName</i>	name of the service.
---------------------	----------------------

Returns

TRUE in case of success, false otherwise.

5.14.2.3 gboolean [cairo_dock_dbus_is_enabled](#) (void)

Say if the bus is available or not.

Returns

TRUE if the connection to the bus has been established.

5.14.2.4 DBusGProxy* `cairo_dock_create_new_session_proxy (const char * name, const char * path, const char * interface)`

Create a new proxy for the 'session' connection.

Parameters

<i>name</i>	a name on the bus.
<i>path</i>	the path.
<i>interface</i>	name of the interface.

Returns

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

5.14.2.5 `DBusGProxy* cairo_dock_create_new_system_proxy (const char * name, const char * path, const char * interface)`

Create a new proxy for the 'system' connection.

Parameters

<i>name</i>	a name on the bus.
<i>path</i>	the path.
<i>interface</i>	name of the interface.

Returns

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

5.14.2.6 `gboolean cairo_dock_dbus_detect_application (const gchar * cName)`

Detect if an application is currently running on Session bus.

Parameters

<i>cName</i>	name of the application.
--------------	--------------------------

Returns

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

5.14.2.7 `gboolean cairo_dock_dbus_detect_system_application (const gchar * cName)`

Detect if an application is currently running on System bus.

Parameters

<i>cName</i>	name of the application.
--------------	--------------------------

Returns

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

5.14.2.8 `gboolean cairo_dock_dbus_get_boolean (DBusGProxy * pDBusProxy, const gchar * cAccessor)`

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

Parameters

<i>pDBusProxy</i>	proxy to the connection.
<i>cAccessor</i>	name of the accessor.

Returns

the value of the parameter.

5.14.2.9 `guint cairo_dock_dbus_get_uinteger (DBusGProxy * pDBusProxy, const gchar * cAccessor)`

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

Parameters

<i>pDBusProxy</i>	proxy to the connection.
<i>cAccessor</i>	name of the accessor.

Returns

the value of the parameter.

5.14.2.10 `int cairo_dock_dbus_get_integer (DBusGProxy * pDBusProxy, const gchar * cAccessor)`

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

Parameters

<i>pDBusProxy</i>	proxy to the connection.
<i>cAccessor</i>	name of the accessor.

Returns

the value of the parameter.

5.14.2.11 `gchar* cairo_dock_dbus_get_string (DBusGProxy * pDBusProxy, const gchar * cAccessor)`

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

Parameters

<i>pDBusProxy</i>	proxy to the connection.
<i>cAccessor</i>	name of the accessor.

Returns

the value of the parameter, to be freed with `g_free`.

5.14.2.12 `gchar** cairo_dock_dbus_get_string_list (DBusGProxy * pDBusProxy, const gchar * cAccessor)`

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

Parameters

<i>pDBusProxy</i>	proxy to the connection.
<i>cAccessor</i>	name of the accessor.

Returns

the value of the parameter, to be freed with `g_strfreev`.

5.14.2.13 `guchar* cairo_dock_dbus_get_uchar (DBusGProxy * pDBusProxy, const gchar * cAccessor)`

Get the value of an 'unsigned char' parameter on the bus.

Parameters

<i>pDBusProxy</i>	proxy to the connection.
<i>cAccessor</i>	name of the accessor.

Returns

the value of the parameter.

5.14.2.14 `void cairo_dock_dbus_call (DBusGProxy * pDBusProxy, const gchar * cCommand)`

Call a command on the bus.

Parameters

<i>pDBusProxy</i>	proxy to the connection.
<i>cCommand</i>	name of the commande.

5.15 cairo-dock-default-view.h File Reference

5.15.1 Detailed Description

This class implements the Dock rendering interface and provides the "default" view.

5.16 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 *pInteractiveWidget`, `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_accessibility` (`CairoDesklet *pDesklet`, `CairoDeskletVisibility iVisibility`, `gboolean bSaveState`)
- void `gldi_desklet_set_sticky` (`CairoDesklet *pDesklet`, `gboolean bSticky`)
- void `gldi_desklet_lock_position` (`CairoDesklet *pDesklet`, `gboolean bPositionLocked`)

5.16.1 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\$

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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, supports 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 functions in [cairo-dock-desklet-manager-h](#).

5.16.2 Macro Definition Documentation

5.16.2.1 #define GLDI_OBJECT_IS_DESKLET(*obj*)

Say if an object is a Desklet.

Parameters

<i>obj</i>	the object.
------------	-------------

Returns

TRUE if the object is a Desklet.

5.16.2.2 #define CAIRO_DESKLET(*pContainer*)

Cast a Container into a Desklet.

Parameters

<i>pContainer</i>	the container.
-------------------	----------------

Returns

the desklet.

5.16.2.3 #define gldi_desklet_add_interactive_widget(*pDesklet*, *pInteractiveWidget*)

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

<i>pInteractive-Widget</i>	the widget to add.
<i>pDesklet</i>	the desklet.

5.16.3 Enumeration Type Documentation

5.16.3.1 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

5.16.4 Function Documentation

5.16.4.1 CairoDesklet* gldi_desklet_new (CairoDeskletAttr * *attr*)

Create a new desklet.

Parameters

<i>attr</i>	the attributes of the desklet
-------------	-------------------------------

Returns

the desklet.

5.16.4.2 void `gldi_desklet_add_interactive_widget_with_margin` (CairoDesklet * *pDesklet*, GtkWidget * *pInteractiveWidget*, int *iRightMargin*)

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

<i>pInteractive-Widget</i>	the widget to add.
<i>pDesklet</i>	the desklet.
<i>iRightMargin</i>	right margin, in pixels, useful to keep a clickable zone on the desklet, or 0 if you don't want a margin.

5.16.4.3 void `gldi_desklet_set_margin` (CairoDesklet * *pDesklet*, int *iRightMargin*)

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

<i>pDesklet</i>	the desklet.
<i>iRightMargin</i>	right margin, in pixels.

5.16.4.4 GtkWidget* `gldi_desklet_steal_interactive_widget` (CairoDesklet * *pDesklet*)

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.

Parameters

<i>pDesklet</i>	the desklet with an interactive widget.
-----------------	---

Returns

the widget.

5.16.4.5 void `gldi_desklet_hide` (CairoDesklet * *pDesklet*)

Hide a desklet.

Parameters

<i>pDesklet</i>	the desklet.
-----------------	--------------

5.16.4.6 void `gldi_desklet_show` (CairoDesklet * *pDesklet*)

Show a desklet, and give it the focus.

Parameters

<i>pDesklet</i>	the desklet.
-----------------	--------------

5.16.4.7 void gldi_desklet_set_accessibility (CairoDesklet * pDesklet, CairoDeskletVisibility iVisibility, gboolean bSaveState)

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).

Parameters

<i>pDesklet</i>	the desklet.
<i>iVisibility</i>	the new accessibility.
<i>bSaveState</i>	whether to save the new state in the conf file.

5.16.4.8 void gldi_desklet_set_sticky (CairoDesklet * pDesklet, gboolean bSticky)

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

<i>pDesklet</i>	the desklet.
<i>bSticky</i>	whether the desklet should be sticky or not.

5.16.4.9 void gldi_desklet_lock_position (CairoDesklet * pDesklet, gboolean bPositionLocked)

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

<i>pDesklet</i>	the desklet.
<i>bPositionLocked</i>	whether the position should be locked or not.

5.17 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](#),
[NOTIFICATION_NEW_DESKLET](#) }
signals

Functions

- `CairoDesklet * gldi_desklets_foreach` (`GldiDeskletForeachFunc` `pCallback`, `gpointer user_data`)
- void `gldi_desklets_foreach_icons` (`GldiIconFunc` `pFunction`, `gpointer pUserData`)
- void `gldi_desklets_set_visible` (`gboolean bOnWidgetLayerToo`)
- void `gldi_desklets_set_visibility_to_default` (`void`)

5.17.1 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\$

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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, supports 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.

5.17.2 Enumeration Type Documentation

5.17.2.1 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.

NOTIFICATION_NEW_DESKLET notification called when a new desklet is created.

5.17.3 Function Documentation

5.17.3.1 CairoDesklet* gldi_desklets_foreach (GldiDeskletForeachFunc pCallback, gpointer user_data)

Run a function through all the desklets. If the callback returns TRUE, then the loop ends and the function returns the current desklet.

Parameters

<i>pCallback</i>	function to be called on each desklet. If it returns TRUE, the loop ends and the function returns the current desklet.
<i>user_data</i>	data to be passed to the callback.

Returns

the found desklet, or NULL.

5.17.3.2 void `gldi_desklets_foreach_icons (GldilconFunc pFunction, gpointer pUserData)`

Execute an action on all icons being inside a desklet.

Parameters

<i>pFunction</i>	the action.
<i>pUserData</i>	data passed to the callback.

5.17.3.3 void `gldi_desklets_set_visible (gboolean bOnWidgetLayerToo)`

Make all desklets visible. Their accessibility is set to `CAIRO_DESKLET_NORMAL`.

Parameters

<i>bOnWidget-LayerToo</i>	TRUE if you want to act on the desklet that are on the WidgetLayer as well.
---------------------------	---

5.17.3.4 void `gldi_desklets_set_visibility_to_default (void)`

Reset the desklets accessibility to the state defined in their conf file.

5.18 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` }
signals

Functions

- void `gldi_desktop_manager_register_backend` (`GldiDesktopManagerBackend *pBackend`)
- gboolean `gldi_desktop_present_class` (const gchar *cClass)
- gboolean `gldi_desktop_present_windows` (void)
- 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_get_current` (int *iCurrentDesktop, int *iCurrentViewportX, int *iCurrentViewportY)

5.18.1 Detailed Description

This class manages the desktop: screen geometry, current desktop/viewport, etc, and notifies for any change on it.

5.18.2 Enumeration Type Documentation

5.18.2.1 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

5.18.3 Function Documentation

5.18.3.1 void `gldi_desktop_manager_register_backend` (`GldiDesktopManagerBackend * pBackend`)

Register a Desktop Manager backend. NULL functions do not overwrite existing ones.

Parameters

<i>pBackend</i>	a Desktop Manager backend; can be freed after.
-----------------	--

5.18.3.2 gboolean `gldi_desktop_present_class` (const gchar * *cClass*)

Present all the windows of a given class.

Parameters

<i>cClass</i>	the class.
---------------	------------

Returns

TRUE on success

5.18.3.3 gboolean gldi_desktop_present_windows (void)

Present all the windows of the current desktop.

Returns

TRUE on success

5.18.3.4 gboolean gldi_desktop_present_desktops (void)

Present all the desktops.

Returns

TRUE on success

5.18.3.5 gboolean gldi_desktop_show_widget_layer (void)

Show the Widget Layer.

Returns

TRUE on success

5.18.3.6 gboolean gldi_desktop_set_on_widget_layer (GldiContainer * pContainer, gboolean bOnWidgetLayer)

Set a Container to be displayed on the Widget Layer.

Parameters

<i>pContainer</i>	a container.
<i>bOnWidgetLayer</i>	whether to set or unset the option.

Returns

TRUE on success

5.18.3.7 void gldi_desktop_get_current (int * iCurrentDesktop, int * iCurrentViewportX, int * iCurrentViewportY)

Get the current workspace (desktop and viewport).

Parameters

<i>iCurrentDesktop</i>	will be filled with the current desktop number
<i>iCurrent-ViewportX</i>	will be filled with the current horizontal viewport number
<i>iCurrent-ViewportY</i>	will be filled with the current vertical viewport number

5.19 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 decorator. It draws the frame of the Dialog.
- 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](#) *plcon, [GldiContainer](#) *pContainer, double fTimeLength, const gchar *clconPath, [GtkWidget](#) *pInteractiveWidget, [CairoDockActionOnAnswerFunc](#) pActionFunc, gpointer data, [GFreeFunc](#) pFreeDataFunc)
- [CairoDialog](#) * [gldi_dialog_show_temporary_with_icon_printf](#) (const gchar *cText, [Icon](#) *plcon, [GldiContainer](#) *pContainer, double fTimeLength, const gchar *clconPath,...) [G_GNUC_PRINTF](#)(1)
- [CairoDialog](#) [CairoDialog](#) * [gldi_dialog_show_temporary_with_icon](#) (const gchar *cText, [Icon](#) *plcon, [GldiContainer](#) *pContainer, double fTimeLength, const gchar *clconPath)
- [CairoDialog](#) * [gldi_dialog_show_temporary](#) (const gchar *cText, [Icon](#) *plcon, [GldiContainer](#) *pContainer, double fTimeLength)
- [CairoDialog](#) * [gldi_dialog_show_temporary_with_default_icon](#) (const gchar *cText, [Icon](#) *plcon, [GldiContainer](#) *pContainer, double fTimeLength)
- [CairoDialog](#) * [gldi_dialog_show_with_question](#) (const gchar *cText, [Icon](#) *plcon, [GldiContainer](#) *pContainer, const gchar *clconPath, [CairoDockActionOnAnswerFunc](#) pActionFunc, gpointer data, [GFreeFunc](#) pFreeDataFunc)
- [CairoDialog](#) * [gldi_dialog_show_with_entry](#) (const gchar *cText, [Icon](#) *plcon, [GldiContainer](#) *pContainer, const gchar *clconPath, const gchar *cTextForEntry, [CairoDockActionOnAnswerFunc](#) pActionFunc, gpointer data, [GFreeFunc](#) pFreeDataFunc)
- [CairoDialog](#) * [gldi_dialog_show_with_value](#) (const gchar *cText, [Icon](#) *plcon, [GldiContainer](#) *pContainer, const gchar *clconPath, 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, [Icon](#) *plcon, [GldiContainer](#) *pContainer, const gchar *clconPath, [GtkWidget](#) *pInteractiveWidget)
- [GtkWidget](#) * [gldi_dialog_steal_interactive_widget](#) ([CairoDialog](#) *pDialog)
- void [gldi_dialog_set_widget_bg_color](#) ([GtkWidget](#) *pWidget)
shouldn't it be done on the interactive widget automatically ?...
- void [gldi_dialog_set_icon](#) ([CairoDialog](#) *pDialog, const gchar *clmageFilePath)
same ...

5.19.1 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.

5.19.2 Macro Definition Documentation

5.19.2.1 `#define CAIRO_DOCK_IS_DIALOG(obj)`

Say if an object is a Dialog.

Parameters

<i>obj</i>	the object.
------------	-------------

Returns

TRUE if the object is a dialog.

5.19.2.2 `#define CAIRO_DIALOG(pContainer)`

Cast a Container into a Dialog.

Parameters

<i>pContainer</i>	the container.
-------------------	----------------

Returns

the dialog.

5.19.3 Function Documentation

5.19.3.1 `CairoDialog* gldi_dialog_new (CairoDialogAttr * pAttribute)`

Create a new dialog.

Parameters

<i>pAttribute</i>	attributes of the dialog.
-------------------	---------------------------

Returns

the dialog.

5.19.3.2 `CairoDialog* gldi_dialog_show (const gchar * cText, Icon * pIcon, GldiContainer * pContainer, double fTimeLength, const gchar * clconPath, GtkWidget * pInteractiveWidget, CairoDockActionOnAnswerFunc pActionFunc, gpointer data, GFreeFunc pFreeDataFunc)`

Pop up a dialog with a message, a widget, 2 buttons ok/cancel and an icon, all optionnal.

Parameters

<i>cText</i>	the message to display.
<i>plcon</i>	the icon that will hold the dialog.
<i>pContainer</i>	the container of the icon.
<i>fTimeLength</i>	the duration of the dialog (in ms), or 0 for an unlimited dialog.
<i>clconPath</i>	path to an icon to display in the margin.
<i>pInteractive-Widget</i>	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.
<i>pActionFunc</i>	the callback called when the user makes its choice. NULL means there will be no buttons.
<i>data</i>	data passed as a parameter of the callback.
<i>pFreeDataFunc</i>	function used to free the data when the dialog is destroyed, or NULL if unnecessary.

Returns

the newly created dialog.

5.19.3.3 CairoDialog* gldi_dialog_show_temporary_with_icon_printf (const gchar * *cText*, Icon * *plcon*, GldiContainer * *pContainer*, double *fTimeLength*, const gchar * *clconPath*, ...)

Pop up a dialog with a message, and a limited duration, and an icon in the margin.

Parameters

<i>cText</i>	the message to display.
<i>plcon</i>	the icon that will hold the dialog.
<i>pContainer</i>	the container of the icon.
<i>fTimeLength</i>	the duration of the dialog (in ms), or 0 for an unlimited dialog.
<i>clconPath</i>	path to an icon.
...	arguments to insert in the message, in a printf way.

Returns

the newly created dialog.

5.19.3.4 CairoDialog CairoDialog* gldi_dialog_show_temporary_with_icon (const gchar * *cText*, Icon * *plcon*, GldiContainer * *pContainer*, double *fTimeLength*, const gchar * *clconPath*)

Pop up a dialog with a message, and a limited duration, and an icon in the margin.

Parameters

<i>cText</i>	the message to display.
<i>plcon</i>	the icon that will hold the dialog.
<i>pContainer</i>	the container of the icon.
<i>fTimeLength</i>	the duration of the dialog (in ms), or 0 for an unlimited dialog.
<i>clconPath</i>	path to an icon.

Returns

the newly created dialog.

5.19.3.5 CairoDialog* gldi_dialog_show_temporary (const gchar * *cText*, Icon * *plcon*, GldiContainer * *pContainer*, double *fTimeLength*)

Pop up a dialog with a message, and a limited duration, with no icon.

Parameters

<i>cText</i>	the message to display.
<i>plcon</i>	the icon that will hold the dialog.
<i>pContainer</i>	the container of the icon.
<i>fTimeLength</i>	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.

5.19.3.6 CairoDialog* gldi_dialog_show_temporary_with_default_icon (const gchar * *cText*, Icon * *plcon*, GldiContainer * *pContainer*, double *fTimeLength*)

Pop up a dialog with a message, and a limited duration, and a default icon.

Parameters

<i>cText</i>	the format of the message to display.
<i>plcon</i>	the icon that will hold the dialog.
<i>pContainer</i>	the container of the icon.
<i>fTimeLength</i>	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.

5.19.3.7 CairoDialog* gldi_dialog_show_with_question (const gchar * *cText*, Icon * *plcon*, GldiContainer * *pContainer*, const gchar * *clconPath*, 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

<i>cText</i>	the message to display.
<i>plcon</i>	the icon that will hold the dialog.
<i>pContainer</i>	the container of the icon.
<i>clconPath</i>	path to an icon to display in the margin.
<i>pActionFunc</i>	the callback.
<i>data</i>	data passed as a parameter of the callback.
<i>pFreeDataFunc</i>	function used to free the data.

Returns

the newly created dialog et visible, avec une reference a 1.

5.19.3.8 CairoDialog* gldi_dialog_show_with_entry (const gchar * *cText*, Icon * *plcon*, GldiContainer * *pContainer*, const gchar * *clconPath*, const gchar * *cTextForEntry*, CairoDockActionOnAnswerFunc *pActionFunc*, gpointer *data*, GFreeFunc *pFreeDataFunc*)

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.

Parameters

<i>cText</i>	the message to display.
<i>plcon</i>	the icon that will hold the dialog.
<i>pContainer</i>	the container of the icon.
<i>clconPath</i>	path to an icon to display in the margin.
<i>cTextForEntry</i>	text to display initially in the entry.
<i>pActionFunc</i>	the callback.
<i>data</i>	data passed as a parameter of the callback.
<i>pFreeDataFunc</i>	function used to free the data.

Returns

the newly created dialog.

5.19.3.9 CairoDialog* gldi_dialog_show_with_value (const gchar * *cText*, Icon * *plcon*, GldiContainer * *pContainer*, const gchar * *clconPath*, double *fValue*, double *fMaxValue*, CairoDockActionOnAnswerFunc *pActionFunc*, gpointer *data*, GFreeFunc *pFreeDataFunc*)

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

<i>cText</i>	the message to display.
<i>plcon</i>	the icon that will hold the dialog.
<i>pContainer</i>	the container of the icon.
<i>clconPath</i>	path to an icon to display in the margin.
<i>fValue</i>	initial value of the scale.
<i>fMaxValue</i>	maximum value of the scale.
<i>pActionFunc</i>	the callback.
<i>data</i>	data passed as a parameter of the callback.
<i>pFreeDataFunc</i>	function used to free the data.

Returns

the newly created dialog.

5.19.3.10 CairoDialog* gldi_dialog_show_general_message (const gchar * *cMessage*, double *fTimeLength*)

Pop up a dialog, pointing on "the best icon possible". This allows to display a general message.

Parameters

<i>cMessage</i>	the message.
<i>fTimeLength</i>	life time of the dialog, in ms.

Returns

the newly created dialog, visible and with a reference of 1.

5.19.3.11 int gldi_dialog_show_and_wait (const gchar * *cText*, Icon * *plcon*, GldiContainer * *pContainer*, const gchar * *clconPath*, GtkWidget * *pInteractiveWidget*)

Pop up a dialog with GTK widget and 2 buttons ok/cancel, and block until the user makes its choice.

Parameters

<i>cText</i>	the message to display.
<i>pIcon</i>	the icon that will hold the dialog.
<i>pContainer</i>	the container of the icon.
<i>clconPath</i>	path to an icon to display in the margin.
<i>pInteractive-Widget</i>	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.

5.19.3.12 GtkWidget* gldi_dialog_steal_interactive_widget (CairoDialog * pDialog)

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

<i>pDialog</i>	the desklet with an interactive widget.
----------------	---

Returns

the widget.

5.20 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](#) (Icon *icon)
- void [gldi_dialog_hide](#) ([CairoDialog](#) *pDialog)
- void [gldi_dialog_unhide](#) ([CairoDialog](#) *pDialog)
- void [gldi_dialog_toggle_visibility](#) ([CairoDialog](#) *pDialog)

5.20.1 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.

5.20.2 Function Documentation

5.20.2.1 void gldi_dialogs_remove_on_icon (Icon * icon)

Remove the dialogs attached to an icon.

Parameters

<i>icon</i>	the icon you want to delete all dialogs from.
-------------	---

5.20.2.2 void gldi_dialog_hide (CairoDialog * pDialog)

Hide a dialog.

Parameters

<i>pDialog</i>	the dialog.
----------------	-------------

5.20.2.3 void gldi_dialog_unhide (CairoDialog * pDialog)

Show a dialog and give it focus.

Parameters

<i>pDialog</i>	the dialog.
----------------	-------------

5.20.2.4 void gldi_dialog_toggle_visibility (CairoDialog * pDialog)

Toggle the visibility of a dialog.

Parameters

<i>pDialog</i>	the dialog.
----------------	-------------

5.21 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*)

5.21.1 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.

5.21.2 Macro Definition Documentation

5.21.2.1 #define `cairo_dock_get_available_docks_for_icon`(*plcon*)

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

<i>plcon</i>	the icon
--------------	----------

Returns

a list of *CairoDock**

5.21.3 Function Documentation

5.21.3.1 void `cairo_dock_update_dock_size` (*CairoDock * pDock*)

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

<i>pDock</i>	the dock.
--------------	-----------

5.21.3.2 *Icon** `cairo_dock_calculate_dock_icons` (*CairoDock * pDock*)

Calculate the position of all icons inside a dock, and triggers the enter/leave events according to the position of the mouse.

Parameters

<i>pDock</i>	the dock.
--------------	-----------

Returns

the pointed icon, or NULL if none is pointed.

5.21.3.3 void cairo_dock_show_subdock (Icon * *pPointedIcon*, CairoDock * *pParentDock*)

Pop up a sub-dock.

Parameters

<i>pPointedIcon</i>	icon pointing on the sub-dock.
<i>pParentDock</i>	dock containing the icon.

5.21.3.4 GList* cairo_dock_get_available_docks (CairoDock * *pParentDock*, CairoDock * *pSubDock*)

Get a list of available docks.

Parameters

<i>pParentDock</i>	excluding this dock if not NULL
<i>pSubDock</i>	excluding this dock and its children if not NULL

Returns

a list of CairoDock*

5.21.3.5 void cairo_dock_calculate_icons_positions_at_rest_linear (GList * *pIconList*, double *fFlatDockWidth*)

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

<i>pIconList</i>	a list of icons.
<i>fFlatDockWidth</i>	width of all the icons placed next to each other.

5.21.3.6 Icon* cairo_dock_apply_wave_effect_linear (CairoDock * *pDock*)

Apply a wave effect on the icons of a linear dock. It is the famous zoom when the mouse hovers an icon.

Parameters

<i>pDock</i>	a linear dock.
--------------	----------------

Returns

the pointed icon, or NULL if none is pointed.

5.21.3.7 double cairo_dock_get_current_dock_width_linear (CairoDock * *pDock*)

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.

5.21.3.8 void cairo_dock_check_if_mouse_inside_linear (CairoDock * pDock)

Check the position of the mouse inside a linear dock. It can be inside, on the edge, or outside. Update the 'iMouse-PositionType' field.

Parameters

<i>pDock</i>	a linear dock.
--------------	----------------

5.21.3.9 void cairo_dock_check_can_drop_linear (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

<i>pDock</i>	a linear dock.
--------------	----------------

5.21.3.10 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

<i>icons</i>	a list of icons of a linear dock.
--------------	-----------------------------------

Returns

the element of the list that contains the first icon to draw.

5.22 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 *pIconList](#))
- void [cairo_dock_remove_icons_from_dock](#) ([CairoDock *pDock](#), [CairoDock *pReceivingDock](#))

5.22.1 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.

5.22.2 Macro Definition Documentation

5.22.2.1 #define GLDI_OBJECT_IS_DOCK(*obj*)

Say if an object is a Dock.

Parameters

<i>obj</i>	the object.
------------	-------------

Returns

TRUE if the object is a Dock.

5.22.2.2 #define CAIRO_DOCK(*p*)

Cast a Container into a Dock.

Parameters

<i>p</i>	the container to consider as a dock.
----------	--------------------------------------

Returns

the dock.

5.22.3 Function Documentation

5.22.3.1 CairoDock* gldi_dock_new (const gchar * *cDockName*)

Create a new root dock.

Parameters

<i>cDockName</i>	the name that identifies the dock
------------------	-----------------------------------

Returns

the new dock.

5.22.3.2 CairoDock* gldi_subdock_new (const gchar * *cDockName*, const gchar * *cRendererName*, CairoDock * *pParentDock*, GList * *plconList*)

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 freed after that. The buffers of each icon are loaded, so they just need to have an image filename and a name.

Parameters

<i>cDockName</i>	the name that identifies the dock.
<i>cRendererName</i>	name of a renderer. If NULL, the default renderer will be applied.
<i>pParentDock</i>	the parent dock.
<i>plconList</i>	a list of icons that will be loaded and inserted into the new dock (optional).

Returns

the new dock.

5.22.3.3 void cairo_dock_remove_icons_from_dock (CairoDock * *pDock*, CairoDock * *pReceivingDock*)

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

<i>pDock</i>	a dock.
<i>pReceivingDock</i>	the dock that will receive the icons, or NULL to destroy and remove the icons.

5.23 cairo-dock-dock-manager.h File Reference

Macros

- #define [gldi_dock_get_name](#)(pDock)

Enumerations

- enum [GldiIconSize](#)

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](#) }

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 (GFunc pFunction, gpointer pUserData)`
- `void gldi_docks_foreach_root (GFunc pFunction, gpointer pUserData)`
- `void gldi_icons_foreach_in_docks (GdiIconFunc 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 gldi_dock_set_visibility (CairoDock *pDock, CairoDockVisibility iVisibility)`

5.23.1 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.

5.23.2 Macro Definition Documentation

5.23.2.1 #define gldi_dock_get_name(*pDock*)

Get the name of a Dock.

Parameters

<i>pDock</i>	the dock.
--------------	-----------

Returns

the name of the dock, that identifies it.

5.23.3 Enumeration Type Documentation

5.23.3.1 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}

5.23.4 Function Documentation

5.23.4.1 `gchar* gldi_dock_get_readable_name (CairoDock * pDock)`

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

<i>pDock</i>	the dock.
--------------	-----------

Returns

the readable name of the dock, or NULL if not found. Free it when you're done.

5.23.4.2 CairoDock* gldi_dock_get (const gchar * cDockName)

Get a Dock from a given name.

Parameters

<i>cDockName</i>	the name of the dock.
------------------	-----------------------

Returns

the dock that has been registered under this name, or NULL if none exists.

5.23.4.3 Icon* cairo_dock_search_icon_pointing_on_dock (CairoDock * pDock, CairoDock ** pParentDock)

Search an icon pointing on a dock. If several icons point on it, the first one will be returned.

Parameters

<i>pDock</i>	the dock.
<i>pParentDock</i>	if not NULL, this will be filled with the dock containing the icon.

Returns

the icon pointing on the dock.

5.23.4.4 void gldi_dock_rename (CairoDock * pDock, const gchar * cNewName)

Rename a dock. Update the container's name of all of its icons.

Parameters

<i>pDock</i>	the dock (optional).
<i>cNewName</i>	the new name.

5.23.4.5 void gldi_docks_foreach (GHFunc pFunction, gpointer pUserData)

Execute an action on all docks.

Parameters

<i>pFunction</i>	the action.
<i>pUserData</i>	data passed to the callback.

5.23.4.6 void gldi_docks_foreach_root (GFunc pFunction, gpointer pUserData)

Execute an action on all main docks.

Parameters

<i>pFunction</i>	the action.
<i>pUserData</i>	data passed to the callback.

5.23.4.7 void `gldi_icons_foreach_in_docks (GldiIconFunc pFunction, gpointer pUserData)`

Execute an action on all icons being inside a dock.

Parameters

<i>pFunction</i>	the action.
<i>pUserData</i>	data passed to the callback.

5.23.4.8 void `cairo_dock_reload_buffers_in_all_docks (gboolean bUpdateIconSize)`

(Re)load all buffers of all icons in all docks.

Parameters

<i>bUpdateIcon- Size</i>	TRUE to recalculate the icons and docks size.
------------------------------	---

5.23.4.9 void `gldi_dock_add_conf_file_for_name (const gchar * cDockName)`

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

<i>cDockName</i>	name of the dock.
------------------	-------------------

5.23.4.10 `gchar* gldi_dock_add_conf_file (void)`

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](#).

5.23.4.11 void `gldi_docks_redraw_all_root (void)`

Redraw every root docks.

5.23.4.12 void `gldi_dock_set_visibility (CairoDock * pDock, CairoDockVisibility iVisibility)`

Set the visibility of a root dock. Perform all the necessary actions.

Parameters

<i>pDock</i>	a root dock.
<i>iVisibility</i>	its new visibility.

5.24 cairo-dock-dock-visibility.h File Reference

Functions

- [GldiWindowActor * gldi_dock_search_overlapping_window \(CairoDock *pDock\)](#)

5.24.1 Detailed Description

This class manages the visibility of Docks.

5.24.2 Function Documentation

5.24.2.1 GldiWindowActor* gldi_dock_search_overlapping_window (CairoDock * pDock)

Get the application whose window overlaps a dock, or NULL if none.

Parameters

<i>pDock</i>	the dock to test.
--------------	-------------------

Returns

the window actor, or NULL if none has been found.

5.25 cairo-dock-draw-opengl.h File Reference

Macros

- #define [cairo_dock_create_texture_from_image](#)(clmagePath)
- #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](#) (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 *clmagePath, double *fImageWidth, double *fImageHeight)
- void [cairo_dock_update_icon_texture](#) (Icon *pIcon)

5.25.1 Detailed Description

This class provides some useful functions to draw with OpenGL.

5.25.2 Macro Definition Documentation

5.25.2.1 #define cairo_dock_create_texture_from_image(*clmagePath*)

Load an image on the dock into an OpenGL texture. The texture will have the same size as the image.

Parameters

<i>clmagePath</i>	path to an image.
-------------------	-------------------

Returns

the newly allocated texture, to be destroyed with `_cairo_dock_delete_texture`.

5.25.2.2 #define _cairo_dock_delete_texture(*iTexture*)

Delete an OpenGL texture from the Graphic Card.

Parameters

<i>iTexture</i>	variable containing the ID of a texture.
-----------------	--

5.25.2.3 #define _cairo_dock_enable_texture(...)

Enable texture drawing.

5.25.2.4 #define _cairo_dock_disable_texture(...)

Disable texture drawing.

5.25.2.5 #define _cairo_dock_set_alpha(*fAlpha*)

Set the alpha channel to a current value, other channels are set to 1.

Parameters

<i>fAlpha</i>	alpha
---------------	-------

5.25.2.6 #define _cairo_dock_set_blend_source(...)

Set the color blending to overwrite.

5.25.2.7 #define _cairo_dock_set_blend_alpha(...)

Set the color blending to mix, for premultiplied texture.

5.25.2.8 #define _cairo_dock_set_blend_over(...)

Set the color blending to mix.

5.25.2.9 `#define _cairo_dock_set_blend_pbuffer(...)`

Set the color blending to mix on a pbuffer.

5.25.2.10 `#define _cairo_dock_apply_texture_at_size(iTexture, w, h)`

Draw a texture centered on the current point, at a given size.

Parameters

<i>iTexture</i>	the texture
<i>w</i>	width
<i>h</i>	height

5.25.2.11 `#define _cairo_dock_apply_texture(iTexture)`

Apply a texture centered on the current point and at the given scale.

Parameters

<i>iTexture</i>	the texture
-----------------	-------------

5.25.2.12 `#define _cairo_dock_apply_texture_at_size_with_alpha(iTexture, w, h, fAlpha)`

Draw a texture centered on the current point, at a given size, and with a given transparency.

Parameters

<i>iTexture</i>	the texture
<i>w</i>	width
<i>h</i>	height
<i>fAlpha</i>	the transparency, between 0 and 1.

5.25.3 Function Documentation

5.25.3.1 `void cairo_dock_render_one_icon_opengl (Icon * icon, CairoDock * pDock, 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

<i>icon</i>	the icon to draw.
<i>pDock</i>	the dock containing the icon.
<i>fDockMagnitude</i>	current magnitude of the dock.
<i>bUseText</i>	TRUE to draw the labels.

5.25.3.2 `GLuint cairo_dock_create_texture_from_surface (cairo_surface_t * pImageSurface)`

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 size as the surface.

Parameters

<i>pImageSurface</i>	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`.

5.25.3.3 `GLuint cairo_dock_create_texture_from_raw_data (const gchar * pTextureRaw, int iWidth, int iHeight)`

Load a pixels buffer representing an image into an OpenGL texture.

Parameters

<i>pTextureRaw</i>	a buffer of pixels.
<i>iWidth</i>	width of the image.
<i>iHeight</i>	height of the image.

Returns

the newly allocated texture, to be destroyed with `_cairo_dock_delete_texture`.

5.25.3.4 `GLuint cairo_dock_create_texture_from_image_full (const gchar * cImagePath, double * flmageWidth, double * flmageHeight)`

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

<i>cImagePath</i>	path to an image.
<i>flmageWidth</i>	pointer that will be filled with the width of the image.
<i>flmageHeight</i>	pointer that will be filled with the height of the image.

Returns

the newly allocated texture, to be destroyed with `_cairo_dock_delete_texture`.

5.25.3.5 `void cairo_dock_update_icon_texture (Icon * plcon)`

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

<i>plcon</i>	the icon.
--------------	-----------

5.26 cairo-dock-draw.h File Reference

Macros

- `#define cairo_dock_erase_cairo_context(pCairoContext)`

Functions

- `cairo_t * cairo_dock_create_drawing_context_generic (GdiContainer *pContainer)`
CONTEXT ///.
- `cairo_t * cairo_dock_create_drawing_context_on_container (GdiContainer *pContainer)`
- `cairo_t * cairo_dock_create_drawing_context_on_area (GdiContainer *pContainer, GdkRectangle *pArea, double *fBgColor)`
- `void cairo_dock_draw_rounded_rectangle (cairo_t *pCairoContext, double fRadius, double fLineWidth, double fFrameWidth, 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 bIsLoop, gboolean bForceConstantSeparator)`

5.26.1 Detailed Description

This class provides some useful functions to draw with libcairo.

5.26.2 Macro Definition Documentation

5.26.2.1 #define cairo_dock_erase_cairo_context(pCairoContext)

Erase a drawing context, making it fully transparent. You don't need to erase a newly created context.

Parameters

<i>pCairoContext</i>	a drawing context.
----------------------	--------------------

5.26.3 Function Documentation

5.26.3.1 cairo_t* cairo_dock_create_drawing_context_generic (GdiContainer * pContainer)

CONTEXT ///.

Create a generic drawing context, to be used as a source context (for instance, for creating a surface).

Parameters

<i>pContainer</i>	a container.
-------------------	--------------

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.

5.26.3.2 cairo_t* cairo_dock_create_drawing_context_on_container (GdiContainer * pContainer)

Create a drawing context to draw on a container. It handles fake transparency.

Parameters

<i>pContainer</i>	the container on which you want to draw.
-------------------	--

Returns

the newly allocated context, to be destroyed with 'cairo_destroy'.

5.26.3.3 `cairo_t* cairo_dock_create_drawing_context_on_area (GdkContainer * pContainer, GdkRectangle * pArea, double * fBgColor)`

Create a drawing context to draw on a part of a container. It handles fake transparency.

Parameters

<i>pContainer</i>	the container on which you want to draw
<i>pArea</i>	part of the container to draw.
<i>fBgColor</i>	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'.

5.26.3.4 `void cairo_dock_draw_rounded_rectangle (cairo_t * pCairoContext, double fRadius, double fLineWidth, double fFrameWidth, double fFrameHeight)`

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

<i>pCairoContext</i>	a drawing context; the current matrix is not altered, but the current path is.
<i>fRadius</i>	radius if the corners.
<i>fLineWidth</i>	width of the line.
<i>fFrameWidth</i>	width of the rectangle, without the corners.
<i>fFrameHeight</i>	height of the rectangle, including the corners.

5.26.3.5 `void cairo_dock_draw_icon_cairo (Icon * icon, CairoDock * pDock, cairo_t * pCairoContext)`

Draw an icon and its reflect on a dock. Only draw the icon's image and reflect, and nothing else.

Parameters

<i>icon</i>	the icon to draw.
<i>pDock</i>	the dock containing the icon.
<i>pCairoContext</i>	a context on the dock, not altered by the function.

5.26.3.6 `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

<i>icon</i>	the icon to draw.
<i>pDock</i>	the dock containing the icon.
<i>pCairoContext</i>	a context on the dock, it is altered by the function.
<i>fDockMagnitude</i>	current magnitude of the dock.
<i>bUseText</i>	TRUE to draw the labels.

5.26.3.7 void `cairo_dock_draw_string` (`cairo_t * pCairoContext`, `CairoDock * pDock`, double *fStringLineWidth*, gboolean *blsLoop*, gboolean *bForceConstantSeparator*)

Draw a string linking the center of all the icons of a dock.

Parameters

<i>pCairoContext</i>	a context on the dock, not altered by the function.
<i>pDock</i>	the dock.
<i>fStringLineWidth</i>	width of the line.
<i>blsLoop</i>	TRUE to loop (link the last icon to the first one).
<i>bForceConstantSeparator</i>	TRUE to consider separators having a constant size.

5.27 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`)
- `GList *` [cairo_dock_fm_list_directory](#) (const `gchar *cURI`, `CairoDockFMSortType` `g_fm_iSortType`, int `iNewIconsType`, gboolean `bListHiddenFiles`, int `iNbMaxFiles`, `gchar **cFullURI`)
- `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 **cIconName`, gboolean `*blsDirectory`, int `*iVolumeID`, double `*fOrder`, `CairoDockFMSortType` `iSortType`)
- gboolean [cairo_dock_fm_get_file_properties](#) (const `gchar *cURI`, `guint64 *iSize`, `time_t *iLastModificationTime`, `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 *cMountedURI`, `CairoDockFMMonitorCallback` `pCallback`, `gpointer` `data`)

- gboolean [cairo_dock_fm_remove_monitor_full](#) (const gchar *cURI, gboolean bDirectory, const gchar *cMountedURI)
- gboolean [cairo_dock_fm_mount_full](#) (const gchar *cURI, int iVolumeID, CairoDockFMMountCallback pCallback, gpointer user_data)
- gboolean [cairo_dock_fm_unmount_full](#) (const gchar *cURI, int iVolumeID, CairoDockFMMountCallback pCallback, gpointer user_data)
- gchar * [cairo_dock_fm_is_mounted](#) (const gchar *cURI, gboolean *bIsMounted)
- 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)

5.27.1 Detailed Description

This class manages the integration into the desktop environment, which includes :

- the VFS (Virtual File System)
- the various desktop-related tools.

5.27.2 Function Documentation

5.27.2.1 void [cairo_dock_fm_register_vfs_backend](#) (CairoDockDesktopEnvBackend * pVFSBackend)

Register a environment backend, overwriting any previous backend.

5.27.2.2 GList* [cairo_dock_fm_list_directory](#) (const gchar * cURI, CairoDockFMSortType g_fm_iSortType, int iNewIconsType, gboolean bListHiddenFiles, int iNbMaxFiles, gchar ** cFullURI)

List the content of a directory and turn it into a list of icons.

5.27.2.3 gsize [cairo_dock_fm_measure_directory](#) (const gchar * cBaseURI, gint iCountType, gboolean bRecursive, gint * pCancel)

Measure a directory (number of files or total size).

5.27.2.4 `gboolean cairo_dock_fm_get_file_info (const gchar * cBaseURI, gchar ** cName, gchar ** cURI, gchar ** clconName, gboolean * blsDirectory, int * iVolumeID, double * fOrder, CairoDockFMSortType iSortType)`

Get the main info to represent a file.

5.27.2.5 `gboolean cairo_dock_fm_get_file_properties (const gchar * cURI, guint64 * iSize, time_t * iLastModificationTime, gchar ** cMimeType, int * iUID, int * iGID, int * iPermissionsMask)`

Get some properties about a file.

5.27.2.6 `gboolean cairo_dock_fm_launch_uri (const gchar * cURI)`

Open a file with the default application.

5.27.2.7 `gboolean cairo_dock_fm_add_monitor_full (const gchar * cURI, gboolean bDirectory, const gchar * cMountedURI, CairoDockFMMonitorCallback pCallback, gpointer data)`

Add a monitor on an URI. It will be called each time a modification occurs on the file.

5.27.2.8 `gboolean cairo_dock_fm_remove_monitor_full (const gchar * cURI, gboolean bDirectory, const gchar * cMountedURI)`

Remove a monitor on an URI.

5.27.2.9 `gboolean cairo_dock_fm_mount_full (const gchar * cURI, int iVolumeID, CairoDockFMMountCallback pCallback, gpointer user_data)`

Mount a point.

5.27.2.10 `gboolean cairo_dock_fm_unmount_full (const gchar * cURI, int iVolumeID, CairoDockFMMountCallback pCallback, gpointer user_data)`

Unmount a point.

5.27.2.11 `gchar* cairo_dock_fm_is_mounted (const gchar * cURI, gboolean * blsMounted)`

Say if a point is currently mounted.

5.27.2.12 `gboolean cairo_dock_fm_can_eject (const gchar * cURI)`

Say if a point can be ejected (like a CD player).

5.27.2.13 `gboolean cairo_dock_fm_eject_drive (const gchar * cURI)`

Eject a drive, like a CD player.

5.27.2.14 `gboolean cairo_dock_fm_delete_file (const gchar * cURI, gboolean bNoTrash)`

Delete a file.

5.27.2.15 `gboolean cairo_dock_fm_rename_file (const gchar * cOldURI, const gchar * cNewName)`

Rename a file.

5.27.2.16 `gboolean cairo_dock_fm_move_file (const gchar * cURI, const gchar * cDirectoryURI)`

Move a file.

5.27.2.17 `gboolean cairo_dock_fm_create_file (const gchar * cURI, gboolean bDirectory)`

Create a new file.

5.27.2.18 `GList* cairo_dock_fm_list_apps_for_file (const gchar * cURI)`

Get the list of applications that can open a given file. Returns a list of strings arrays : {name, command, icon}.

5.27.2.19 `gboolean cairo_dock_fm_empty_trash (void)`

Empty the Trash.

5.27.2.20 `gchar* cairo_dock_fm_get_trash_path (const gchar * cNearURI, gchar ** cFileInfoPath)`

Get the path to the Trash.

5.27.2.21 `gchar* cairo_dock_fm_get_desktop_path (void)`

Get the path to the Desktop.

5.27.2.22 `gboolean cairo_dock_fm_logout (void)`

Raise the logout panel.

5.27.2.23 `gboolean cairo_dock_fm_shutdown (void)`

Raise the shutdown panel.

5.27.2.24 `gboolean cairo_dock_fm_reboot (void)`

Raise the reboot panel.

5.27.2.25 `gboolean cairo_dock_fm_lock_screen (void)`

Lock the screen.

5.27.2.26 `gboolean cairo_dock_fm_setup_time (void)`

Raise the panel to configure the time.

5.27.2.27 `gboolean cairo_dock_fm_show_system_monitor (void)`

Raise the default system monitor.

5.27.2.28 `Icon* cairo_dock_fm_create_icon_from_URI (const gchar * cURI, GldiContainer * pContainer, CairoDockFMSortType iFileSortType)`

Create an Icon representing a given URI.

5.27.2.29 `int cairo_dock_get_file_size (const gchar * cFilePath)`

Get the size of a local file.

Parameters

<code>cFilePath</code>	path of a file on the hard disk.
------------------------	----------------------------------

Returns

the size of the file, or 0 if it doesn't exist.

5.28 cairo-dock-gauge.h File Reference

Typedefs

- typedef struct `_CairoGaugeAttribute` [CairoGaugeAttribute](#)
Attributes of a Gauge.

5.28.1 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](#).

5.29 cairo-dock-gnome-shell-integration.h File Reference

5.29.1 Detailed Description

This class implements the integration of Gnome-Shell inside Cairo-Dock.

5.30 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.

5.30.1 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](#).

5.30.2 Enumeration Type Documentation

5.30.2.1 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.

5.31 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_SCREEN_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 }

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)

5.31.1 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 ~1 second. They can be as long as you want. Use '

' to insert new lines inside the tooltip.

5.31.2 Enumeration Type Documentation

5.31.2.1 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_BUTTON boolean in a button to tick, that will control the 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.

CAIRO_DOCK_WIDGET_COLOR_SELECTOR_RGB 3 doubles with a color selector (RGB).

CAIRO_DOCK_WIDGET_COLOR_SELECTOR_RGBA 4 doubles with a color selector (RGBA).

CAIRO_DOCK_WIDGET_HSCALE_DOUBLE double in an horizontal scale.

CAIRO_DOCK_WIDGET_VIEW_LIST list of views.

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 list of available dialog decorators.

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_SCREEN_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.

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.

5.31.3 Function Documentation

5.31.3.1 CairoDockGroupKeyWidget* cairo_dock_gui_find_group_key_widget_in_list (GSList * pWidgetList, const gchar * cGroupName, const gchar * cKeyName)

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

<i>pWidgetList</i>	list of widgets built from the config file
<i>cGroupName</i>	name of the group the widget belongs to
<i>cKeyName</i>	name of the key the widget represents

Returns

the widget associated with the (group,key) , or NULL if none is found

5.32 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

5.32.1 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 character of its comment. The comment also contains a description of the key, and an optional 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.

5.32.2 Macro Definition Documentation

5.32.2.1 `#define cairo_dock_reload_current_module_widget(pModuleInstance)`

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

<i>pModule-Instance</i>	an instance of a module.
-------------------------	--------------------------

5.32.3 Function Documentation

5.32.3.1 void cairo_dock_set_status_message (GtkWidget * *pWindow*, const gchar * *cMessage*)

Display a message on a given window that has a status-bar. If no window is provided, the current config panel

Parameters

<i>pWindow</i>	window where the message should be displayed, or NULL to target the config panel.
<i>cMessage</i>	the message.

5.32.3.2 void cairo_dock_set_status_message_printf (GtkWidget * *pWindow*, const gchar * *cFormat*, ...)

Display a message on a given window that has a status-bar. If no window is provided, the current config panel

Parameters

<i>pWindow</i>	window where the message should be displayed, or NULL to target the config panel.
<i>cFormat</i>	the message, in a printf-like format
...	arguments of the format.

5.33 cairo-dock-hiding-effect.h File Reference

5.33.1 Detailed Description

This class implements the rendering interface for hiding docks.

5.34 cairo-dock-icon-container.h File Reference

5.34.1 Detailed Description

This class implements the rendering interface for icons pointing on a sub-dock.

5.35 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

- [CairoDockIconGroup](#) [cairo_dock_get_icon_type](#) ([Icon](#) *icon)
- [int](#) [cairo_dock_compare_icons_order](#) ([Icon](#) *icon1, [Icon](#) *icon2)
- [int](#) [cairo_dock_compare_icons_name](#) ([Icon](#) *icon1, [Icon](#) *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, [CairoDockIconGroup](#) iGroup)
- [Icon](#) * [cairo_dock_get_first_icon_of_order](#) ([GList](#) *plconList, [CairoDockIconGroup](#) iGroup)
- [Icon](#) * [cairo_dock_get_last_icon_of_order](#) ([GList](#) *plconList, [CairoDockIconGroup](#) iGroup)
- [Icon](#) * [cairo_dock_get_pointed_icon](#) ([GList](#) *plconList)
- [Icon](#) * [cairo_dock_get_next_icon](#) ([GList](#) *plconList, [Icon](#) *plcon)
- [Icon](#) * [cairo_dock_get_previous_icon](#) ([GList](#) *plconList, [Icon](#) *plcon)
- [Icon](#) * [cairo_dock_get_icon_with_command](#) ([GList](#) *plconList, const [gchar](#) *cCommand)
- [Icon](#) * [cairo_dock_get_icon_with_base_uri](#) ([GList](#) *plconList, const [gchar](#) *cBaseURI)
- [Icon](#) * [cairo_dock_get_icon_with_name](#) ([GList](#) *plconList, const [gchar](#) *cName)
- [Icon](#) * [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](#) *plcon, [GldiContainer](#) *pContainer, [double](#) *fSizeX, [double](#) *fSizeY)
- [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](#) ([Icon](#) *plcon, const [gchar](#) *clconNameFormat,...) [G_GNUC_PRINTF](#)(2)
- [void](#) [gldi_icon_set_quick_info](#) ([Icon](#) *plcon, const [gchar](#) *cQuickInfo)
- [void](#) [gldi_icon_set_quick_info_printf](#) ([Icon](#) *plcon, const [gchar](#) *cQuickInfoFormat,...) [G_GNUC_PRINTF](#)(2)
- [gboolean](#) [cairo_dock_begin_draw_icon](#) ([Icon](#) *plcon, [gint](#) iRenderingMode)
- [void](#) [cairo_dock_end_draw_icon](#) ([Icon](#) *plcon)

5.35.1 Detailed Description

This class provides utility functions on Icons.

5.35.2 Macro Definition Documentation

5.35.2.1 `#define cairo_dock_icon_is_being_inserted(icon)`

Say whether an icon is currently being inserted.

5.35.2.2 `#define cairo_dock_icon_is_being_removed(icon)`

Say whether an icon is currently being removed.

5.35.2.3 `#define cairo_dock_get_icon_order(icon)`

Get the group order of an icon. 3 groups are available by default : launchers, applis, and applets, and each group has an order.

5.35.2.4 `#define cairo_dock_get_next_element(ic, list)`

Get the next element in a list, looping if necessary..

Parameters

<i>ic</i>	the current element.
<i>list</i>	a list.

Returns

the next element, or the first element of the list if 'ic' is the last one.

5.35.2.5 #define cairo_dock_get_previous_element(*ic*, *list*)

Get the previous element in a list, looping if necessary..

Parameters

<i>ic</i>	the current element.
<i>list</i>	a list.

Returns

the previous element, or the last element of the list if 'ic' is the first one.

5.35.2.6 #define cairo_dock_set_icon_static(*icon*, *_bStatic*)

Make an icon static or not. Static icons are not animated when mouse hovers them.

Parameters

<i>icon</i>	an icon.
<i>_bStatic</i>	static or not.

5.35.2.7 #define cairo_dock_set_icon_always_visible(*icon*, *_bAlwaysVisible*)

Make an icon always visible, even when the dock is hidden.

Parameters

<i>icon</i>	an icon.
<i>_bAlwaysVisible</i>	whether the icon is always visible or not.

5.35.2.8 #define gldi_icon_mark_as_launching(*plcon*)

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.

5.35.2.9 #define gldi_icon_is_launching(*plcon*)

Tell if an Icon is being launched.

5.35.3 Function Documentation

5.35.3.1 CairoDockIconGroup cairo_dock_get_icon_type (*Icon* * *icon*)

Get the type of an icon according to its content (launcher, appli, applet). This can be different from its group.

Parameters

<i>icon</i>	the icon.
-------------	-----------

Returns

the type of the icon.

5.35.3.2 int cairo_dock_compare_icons_order (Icon * *icon1*, Icon * *icon2*)

Compare 2 icons with the order relation on (group order, icon order).

Parameters

<i>icon1</i>	an icon.
<i>icon2</i>	another icon.

Returns

-1 if $icon1 < icon2$, 1 if $icon1 > icon2$, 0 if $icon1 = icon2$.

5.35.3.3 int cairo_dock_compare_icons_name (Icon * *icon1*, Icon * *icon2*)

Compare 2 icons with the order relation on the name (case insensitive alphabetical order).

Parameters

<i>icon1</i>	an icon.
<i>icon2</i>	another icon.

Returns

-1 if $icon1 < icon2$, 1 if $icon1 > icon2$, 0 if $icon1 = icon2$.

5.35.3.4 int cairo_dock_compare_icons_extension (Icon * *icon1*, Icon * *icon2*)

Compare 2 icons with the order relation on the extension of their URIs (case insensitive alphabetical order).

Parameters

<i>icon1</i>	an icon.
<i>icon2</i>	another icon.

Returns

-1 if $icon1 < icon2$, 1 if $icon1 > icon2$, 0 if $icon1 = icon2$.

5.35.3.5 GList* cairo_dock_sort_icons_by_order (GList * *pIconList*)

Sort a list with the order relation on (group order, icon order).

Parameters

<i>plconList</i>	a list of icons.
------------------	------------------

Returns

the sorted list. Elements are the same as the initial list, only their order has changed.

5.35.3.6 `GList* cairo_dock_sort_icons_by_name (GList * plconList)`

Sort a list with the alphabetical order on the icons' name.

Parameters

<i>plconList</i>	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.

5.35.3.7 `Icon* cairo_dock_get_first_icon (GList * plconList)`

Get the first icon of a list of icons.

Parameters

<i>plconList</i>	a list of icons.
------------------	------------------

Returns

the first icon, or NULL if the list is empty.

5.35.3.8 `Icon* cairo_dock_get_last_icon (GList * plconList)`

Get the last icon of a list of icons.

Parameters

<i>plconList</i>	a list of icons.
------------------	------------------

Returns

the last icon, or NULL if the list is empty.

5.35.3.9 `Icon* cairo_dock_get_first_icon_of_group (GList * plconList, CairoDockIconGroup iGroup)`

Get the first icon of a given group.

Parameters

<i>plconList</i>	a list of icons.
------------------	------------------

<i>iGroup</i>	the group of icon.
---------------	--------------------

Returns

the first found icon with this group, or NULL if none matches.

5.35.3.10 **Icon*** cairo_dock_get_last_icon_of_group (**GList *** *plconList*, **CairoDockIconGroup** *iGroup*)

Get the last icon of a given group.

Parameters

<i>plconList</i>	a list of icons.
<i>iGroup</i>	the group of icon.

Returns

the last found icon with this group, or NULL if none matches.

5.35.3.11 **Icon*** cairo_dock_get_first_icon_of_order (**GList *** *plconList*, **CairoDockIconGroup** *iGroup*)

Get the first icon whose group has the same order as a given one.

Parameters

<i>plconList</i>	a list of icons.
<i>iGroup</i>	a group of icon.

Returns

the first found icon, or NULL if none matches.

5.35.3.12 **Icon*** cairo_dock_get_last_icon_of_order (**GList *** *plconList*, **CairoDockIconGroup** *iGroup*)

Get the last icon whose group has the same order as a given one.

Parameters

<i>plconList</i>	a list of icons.
<i>iGroup</i>	a group of icon.

Returns

the last found icon, or NULL if none matches.

5.35.3.13 **Icon*** cairo_dock_get_pointed_icon (**GList *** *plconList*)

Get the currently pointed icon in a list of icons.

Parameters

<i>plconList</i>	a list of icons.
------------------	------------------

Returns

the icon whose field 'bPointed' is TRUE, or NULL if none is pointed.

5.35.3.14 Icon* cairo_dock_get_next_icon (GList * *plconList*, Icon * *plcon*)

Get the icon next to a given one. The cost is O(n).

Parameters

<i>plconList</i>	a list of icons.
<i>plcon</i>	an icon in the list.

Returns

the icon whose left neighbor is *plcon*, or NULL if the list is empty or if *plcon* is the last icon.

5.35.3.15 Icon* cairo_dock_get_previous_icon (GList * *plconList*, Icon * *plcon*)

Get the icon previous to a given one. The cost is O(n).

Parameters

<i>plconList</i>	a list of icons.
<i>plcon</i>	an icon in the list.

Returns

the icon whose right neighbor is *plcon*, or NULL if the list is empty or if *plcon* is the first icon.

5.35.3.16 Icon* cairo_dock_get_icon_with_command (GList * *plconList*, const gchar * *cCommand*)

Search an icon with a given command in a list of icons.

Parameters

<i>plconList</i>	a list of icons.
<i>cCommand</i>	the command.

Returns

the first icon whose field 'cCommand' is identical to the given command, or NULL if no icon matches.

5.35.3.17 Icon* cairo_dock_get_icon_with_base_uri (GList * *plconList*, const gchar * *cBaseURI*)

Search an icon with a given URI in a list of icons.

Parameters

<i>plconList</i>	a list of icons.
<i>cBaseURI</i>	the URI.

Returns

the first icon whose field 'cURI' is identical to the given URI, or NULL if no icon matches.

5.35.3.18 Icon* cairo_dock_get_icon_with_name (GList * *plconList*, const gchar * *cName*)

Search an icon with a given name in a list of icons.

Parameters

<i>plconList</i>	a list of icons.
<i>cName</i>	the name.

Returns

the first icon whose field 'cName' is identical to the given name, or NULL if no icon matches.

5.35.3.19 Icon* cairo_dock_get_icon_with_subdock (GList * *plconList*, CairoDock * *pSubDock*)

Search the icon pointing on a given sub-dock in a list of icons.

Parameters

<i>plconList</i>	a list of icons.
<i>pSubDock</i>	a sub-dock.

Returns

the first icon whose field 'pSubDock' is equal to the given sub-dock, or NULL if no icon matches.

5.35.3.20 void cairo_dock_get_icon_extent (Icon * *plcon*, int * *iWidth*, int * *iHeight*)

Get the dimension allocated to the surface/texture of an icon.

Parameters

<i>plcon</i>	the icon.
<i>iWidth</i>	pointer to the width.
<i>iHeight</i>	pointer to the height.

5.35.3.21 void cairo_dock_get_current_icon_size (Icon * *plcon*, GdiContainer * *pContainer*, double * *fSizeX*, double * *fSizeY*)

Get the current size of an icon as it is seen on the screen (taking into account the zoom and the ratio).

Parameters

<i>pIcon</i>	the icon
<i>pContainer</i>	its container
<i>fSizeX</i>	pointer to the X size (horizontal)
<i>fSizeY</i>	pointer to the Y size (vertical)

5.35.3.22 void cairo_dock_compute_icon_area (Icon * *icon*, GldiContainer * *pContainer*, GdkRectangle * *pArea*)

Get the total zone used by an icon on its container (taking into account reflect, gap to reflect, zoom and str

Parameters

<i>icon</i>	the icon
<i>pContainer</i>	its container
<i>pArea</i>	a rectangle filled with the zone used by the icon on its container.

5.35.3.23 void gldi_icon_set_name (Icon * *pIcon*, const gchar * *clconName*)

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

<i>pIcon</i>	the icon.
<i>clconName</i>	the new label of the icon. You can even pass <i>pIcon->cName</i> .

5.35.3.24 void gldi_icon_set_name_printf (Icon * *pIcon*, const gchar * *clconNameFormat*, ...)

Same as above, but takes a printf-like format string.

Parameters

<i>pIcon</i>	the icon.
<i>clconName-Format</i>	the new label of the icon, in a 'printf' way.
...	data to be inserted into the string.

5.35.3.25 void void gldi_icon_set_quick_info (Icon * *pIcon*, const gchar * *cQuickInfo*)

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

Parameters

<i>pIcon</i>	the icon.
<i>cQuickInfo</i>	the text of the quick-info. If NULL, will just remove the current the quick-info.

5.35.3.26 void gldi_icon_set_quick_info_printf (Icon * *pIcon*, const gchar * *cQuickInfoFormat*, ...)

Same as above, but takes a printf-like format string.

Parameters

<i>plcon</i>	the icon.
<i>cQuickInfo-Format</i>	the text of the quick-info, in a 'printf' way.
...	data to be inserted into the string.

5.35.3.27 gboolean cairo_dock_begin_draw_icon (Icon * *plcon*, gint *iRenderingMode*)

Initiate an OpenGL drawing session on an icon's texture.

Parameters

<i>plcon</i>	the icon on which to draw.
<i>iRenderingMode</i>	rendering mode. 0:normal, 1:don't clear the current texture, so that the drawing will be super-imposed 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 occurred.

5.35.3.28 void cairo_dock_end_draw_icon (Icon * *plcon*)

Finish an OpenGL drawing session on an icon.

Parameters

<i>plcon</i>	the icon on which to draw.
--------------	----------------------------

Returns

TRUE if you can proceed to the drawing, FALSE if an error occurred.

5.36 cairo-dock-icon-factory.h File Reference

Data Structures

- struct [_IconInterface](#)
Icon's interface.
- struct [_Icon](#)
Definition of an Icon.
- struct [_CairoIconContainerRenderer](#)
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

- [Icon * gldi_icon_new](#) (void)
- [Icon * 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](#) (Icon *icon)
- void [cairo_dock_load_icon_quickinfo](#) (Icon *icon)
- void [cairo_dock_load_icon_buffers](#) (Icon *pIcon, GldiContainer *pContainer)

5.36.1 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 Icon and to load its various buffers. Specialized Icons are created by the corresponding factory.

5.36.2 Macro Definition Documentation

5.36.2.1 #define CAIRO_DOCK_IS_ICON(*obj*)

Say if an object is an Icon.

Parameters

<i>obj</i>	the object.
------------	-------------

Returns

TRUE if the object is an icon.

5.36.2.2 #define CAIRO_DOCK_IS_APPLI(*icon*)

TRUE if the icon holds a window.

Parameters

<i>icon</i>	an icon.
-------------	----------

5.36.2.3 #define CAIRO_DOCK_IS_APPLET(*icon*)

TRUE if the icon holds an instance of a module.

Parameters

<i>icon</i>	an icon.
-------------	----------

5.36.2.4 #define CAIRO_DOCK_IS_MULTI_APPLI(*icon*)

TRUE if the icon is an icon pointing on the sub-dock of a class.

Parameters

<i>icon</i>	an icon.
-------------	----------

5.36.2.5 #define CAIRO_DOCK_IS_AUTOMATIC_SEPARATOR(*icon*)

TRUE if the icon is an automatic separator.

Parameters

<i>icon</i>	an icon.
-------------	----------

5.36.2.6 #define CAIRO_DOCK_IS_USER_SEPARATOR(*icon*)

TRUE if the icon is a separator added by the user.

Parameters

<i>icon</i>	an icon.
-------------	----------

5.36.2.7 #define CAIRO_DOCK_IS_NORMAL_APPLI(*icon*)

TRUE if the icon is an icon d'appli only.

Parameters

<i>icon</i>	an icon.
-------------	----------

5.36.2.8 #define CAIRO_DOCK_IS_DETACHABLE_APPLET(*icon*)

TRUE if the icon is an icon d'applet detachable en desklet.

Parameters

<i>icon</i>	an icon.
-------------	----------

5.36.3 Function Documentation

5.36.3.1 Icon* gldi_icon_new (void)

Create an empty icon.

Returns

the newly allocated icon object.

5.36.3.2 Icon* cairo_dock_create_dummy_launcher (gchar * cName, gchar * cFileName, gchar * cCommand, gchar * cQuickInfo, double fOrder)

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

<i>cName</i>	label of the icon
<i>cFileName</i>	name of an image
<i>cCommand</i>	a command, or NULL
<i>cQuickInfo</i>	a quick-info, or NULL
<i>fOrder</i>	order of the icon in its container.

Returns

the newly created icon.

5.36.3.3 void cairo_dock_load_icon_image (Icon * icon, GldiContainer * pContainer)

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

<i>icon</i>	the icon.
<i>pContainer</i>	its container.

5.36.3.4 void cairo_dock_load_icon_text (Icon * icon)

Fill the label buffer (surface & texture) of a given icon, according to a text description.

Parameters

<i>icon</i>	the icon.
-------------	-----------

5.36.3.5 void cairo_dock_load_icon_quickinfo (Icon * icon)

Fill the quick-info buffer (surface & texture) of a given icon, according to a text description.

Parameters

<i>icon</i>	the icon.
-------------	-----------

5.36.3.6 void `cairo_dock_load_icon_buffers (Icon * pIcon, GldiContainer * pContainer)`

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

<i>pIcon</i>	the icon.
<i>pContainer</i>	its container.

5.37 cairo-dock-icon-manager.h File Reference

Enumerations

- enum [CairoIconNotifications](#) {
NOTIFICATION_UNFOLD_SUBDOCK,
NOTIFICATION_UPDATE_ICON,
NOTIFICATION_UPDATE_ICON_SLOW,
NOTIFICATION_PRE_RENDER_ICON,
NOTIFICATION_RENDER_ICON,
NOTIFICATION_STOP_ICON,
NOTIFICATION_REQUEST_ICON_ANIMATION }

signals

Functions

- void [gldi_icons_foreach](#) (GldiIconFunc pFunction, gpointer pUserData)
- gint [cairo_dock_search_icon_size](#) (GtkIconSize iIconSize)
- gchar * [cairo_dock_search_icon_s_path](#) (const gchar *cFileName, gint iDesiredIconSize)

5.37.1 Detailed Description

This class manages the icons parameters and their associated resources.

Specialized Icons are handled by the corresponding manager.

5.37.2 Enumeration Type Documentation

5.37.2.1 enum CairoIconNotifications

signals

Enumerator

NOTIFICATION_UNFOLD_SUBDOCK notification called when an icon's sub-dock is starting to (un)fold. data : {Icon}

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.

5.37.3 Function Documentation

5.37.3.1 void `gldi_icons_foreach` (`GldilconFunc pFunction`, `gpointer pUserData`)

Execute an action on all icons.

Parameters

<i>pFunction</i>	the action.
<i>pUserData</i>	data passed to the callback.

5.37.3.2 gint cairo_dock_search_icon_size (GtkIconSize *iIconSize*)

Search the icon size of a GtkIconSize.

Parameters

<i>iIconSize</i>	a GtkIconSize
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Returns

the maximum between the width and the height of the icon size in pixel (or 128 if there is a problem)

5.37.3.3 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 '~' character in paths.

Parameters

<i>cFileName</i>	name of the icon file.
<i>iDesiredIconSize</i>	desired icon size if we use icons from user icons theme.

Returns

the complete path of the icon, or NULL if not found.

5.38 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](#)(pImage, cImageFile, iWidth, iHeight, iLoadModifier)
- #define [cairo_dock_apply_image_buffer_surface](#)(pImage, pCairoContext)
- #define [cairo_dock_apply_image_buffer_texture](#)(pImage)

Functions

- gchar * [cairo_dock_search_image_s_path](#) (const gchar *cImageFile)
- void [cairo_dock_load_image_buffer_full](#) (CairoDockImageBuffer *pImage, const gchar *cImageFile, int iWidth, int iHeight, CairoDockLoadImageModifier iLoadModifier, double fAlpha)
- void [cairo_dock_load_image_buffer_from_surface](#) (CairoDockImageBuffer *pImage, cairo_surface_t *pSurface, int iWidth, int iHeight)
- 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_surface_with_offset](#) (const CairoDockImageBuffer *pImage, cairo_t *pCairoContext, double x, double y, double fAlpha)
- 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 *pCairoContext, 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)

5.38.1 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.

5.38.2 Macro Definition Documentation

5.38.2.1 [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

<i>pImage</i>	an ImageBuffer.
<i>cImageFile</i>	name of a file
<i>iWidth</i>	width it should be loaded. The resulting width can be different depending on the modifier.
<i>iHeight</i>	height it should be loaded. The resulting width can be different depending on the modifier.
<i>iLoadModifier</i>	modifier

5.38.2.2 [#define cairo_dock_apply_image_buffer_surface](#)(*pImage*, *pCairoContext*)

Draw an ImageBuffer on a cairo context.

Parameters

<i>pImage</i>	an ImageBuffer.
<i>pCairoContext</i>	the current cairo context.

5.38.2.3 [#define cairo_dock_apply_image_buffer_texture](#)(*pImage*)

Draw an ImageBuffer on the current OpenGL context.

Parameters

<i>pImage</i>	an ImageBuffer.
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5.38.3 Function Documentation

5.38.3.1 `gchar* cairo_dock_search_image_s_path (const gchar * clmageFile)`

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

<i>clmageFile</i>	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.

5.38.3.2 `void cairo_dock_load_image_buffer_full (CairoDockImageBuffer * pImage, const gchar * clmageFile, int iWidth, int iHeight, CairoDockLoadImageModifier iLoadModifier, double fAlpha)`

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.

Parameters

<i>pImage</i>	an ImageBuffer.
<i>clmageFile</i>	name of a file
<i>iWidth</i>	width it should be loaded.
<i>iHeight</i>	height it should be loaded.
<i>iLoadModifier</i>	modifier
<i>fAlpha</i>	transparency (1:fully opaque)

5.38.3.3 `void cairo_dock_load_image_buffer_from_surface (CairoDockImageBuffer * pImage, cairo_surface_t * pSurface, int iWidth, int iHeight)`

Load a surface into an ImageBuffer.

Parameters

<i>pImage</i>	an ImageBuffer.
<i>pSurface</i>	a cairo surface
<i>iWidth</i>	width of the surface
<i>iHeight</i>	height of the surface

5.38.3.4 `CairoDockImageBuffer* cairo_dock_create_image_buffer (const gchar * clmageFile, int iWidth, int iHeight, CairoDockLoadImageModifier iLoadModifier)`

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

<i>cImageFile</i>	name of a file
<i>iWidth</i>	width it should be loaded.
<i>iHeight</i>	height it should be loaded.
<i>iLoadModifier</i>	modifier

Returns

a newly allocated ImageBuffer.

5.38.3.5 void cairo_dock_unload_image_buffer (CairoDockImageBuffer * *plmage*)

Reset an ImageBuffer's resources. It can be used to load another image then.

Parameters

<i>plmage</i>	an ImageBuffer.
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5.38.3.6 void cairo_dock_free_image_buffer (CairoDockImageBuffer * *plmage*)

Reset and free an ImageBuffer.

Parameters

<i>plmage</i>	an ImageBuffer.
---------------	-----------------

5.38.3.7 void cairo_dock_apply_image_buffer_surface_with_offset (const CairoDockImageBuffer * *plmage*, cairo_t * *pCairoContext*, double *x*, double *y*, double *fAlpha*)

Draw an ImageBuffer with an offset on a Cairo context, at the size it was loaded.

Parameters

<i>plmage</i>	an ImageBuffer.
<i>pCairoContext</i>	the current cairo context.
<i>x</i>	horizontal offset.
<i>y</i>	vertical offset.
<i>fAlpha</i>	transparency (in [0;1])

5.38.3.8 void cairo_dock_apply_image_buffer_texture_with_offset (const CairoDockImageBuffer * *plmage*, double *x*, double *y*)

Draw an ImageBuffer with an offset on the current OpenGL context, at the size it was loaded.

Parameters

<i>plmage</i>	an ImageBuffer.
<i>x</i>	horizontal offset.
<i>y</i>	vertical offset.

5.38.3.9 void cairo_dock_apply_image_buffer_surface_at_size (const CairoDockImageBuffer * *plmage*, 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

<i>pImage</i>	an ImageBuffer.
<i>pCairoContext</i>	the current cairo context.
<i>w</i>	requested width
<i>h</i>	requested height
<i>x</i>	horizontal offset.
<i>y</i>	vertical offset.
<i>fAlpha</i>	transparency (in [0;1])

5.38.3.10 void `cairo_dock_apply_image_buffer_texture_at_size` (const CairoDockImageBuffer * *pImage*, int *w*, int *h*, double *x*, double *y*)

Draw an ImageBuffer on the current OpenGL context at a given size.

Parameters

<i>pImage</i>	an ImageBuffer.
<i>w</i>	requested width
<i>h</i>	requested height
<i>x</i>	horizontal offset.
<i>y</i>	vertical offset.

5.38.3.11 void `cairo_dock_create_icon_fbo` (void)

Create an FBO to render the icons inside a dock.

5.38.3.12 void `cairo_dock_destroy_icon_fbo` (void)

Destroy the icons FBO.

5.39 cairo-dock-indicator-manager.h File Reference

5.39.1 Detailed Description

This class manages the indicators.

5.40 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

- GldiShortcutkey * [gldi_shortkey_new](#) (const gchar *keystring, const gchar *cDemander, const gchar *cDescription, const gchar *clconFilePath, const gchar *cConfFilePath, const gchar *cGroupName, const gchar *cKeyName, [CDBindkeyHandler](#) handler, gpointer user_data)
- gboolean [gldi_shortkey_rebind](#) (GldiShortcutkey *binding, const gchar *cNewKeyString, const gchar *cNewDescription)
- gboolean [cairo_dock_trigger_shortkey](#) (const gchar *cKeyString)

5.40.1 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>F1 or <ctrl><shift>s.

Use [gldi_shortkey_new](#) to create a new shortcut, and simply unref it with [gldi_object_unref](#) to unbind the keyboard shortcut. To update a binding (whenever the shortcut or the description change, or just to re-grab it), use [gldi_shortkey_rebind](#).

5.40.2 Macro Definition Documentation

5.40.2.1 #define gldi_shortkey_could_grab(binding)

Says if the shortcut of a key binding could be grabbed.

Parameters

<i>binding</i>	a key binding.
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Returns

TRUE iif the shortcut has been successfully grabbed by the key binding.

5.40.3 Function Documentation

5.40.3.1 GldiShortcutkey* gldi_shortkey_new (const gchar * keystring, const gchar * cDemander, const gchar * cDescription, const gchar * clconFilePath, const gchar * cConfFilePath, const gchar * cGroupName, const gchar * cKeyName, CDBindkeyHandler handler, gpointer user_data)

Create a new shortcut, that binds an action to a shortcut. Unref it when you don't want it anymore, or when 'user_data' is freed.

Parameters

<i>keystring</i>	a shortcut.
<i>cDemander</i>	the actor making the demand
<i>cDescription</i>	a short description of the action
<i>clconFilePath</i>	an icon that represents the demander
<i>cConfFilePath</i>	conf file where the shortcut stored
<i>cGroupName</i>	group name where it's stored in the conf file
<i>cKeyName</i>	key name where it's stored in the conf file
<i>handler</i>	function called when the shortcut is pressed by the user

<i>user_data</i>	data passed to the callback
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Returns

the shortcut, already bound.

5.40.3.2 gboolean gldi_shortkey_rebind (GldiShortcut * *binding*, const gchar * *cNewKeyString*, const gchar * *cNewDescription*)

Rebind a shortcut to a new one. If the shortcut is the same, don't re-bind it.

Parameters

<i>binding</i>	a key binding.
<i>cNewKeyString</i>	the new shortcut
<i>cNewDescription</i>	the new description, or NULL to keep the current one.

Returns

TRUE on success

5.40.3.3 gboolean cairo_dock_trigger_shortkey (const gchar * *cKeyString*)

Trigger a given shortcut. It will be as if the user effectively pressed the shortcut on its keyboard. It uses the 'XTest' X extension.

Parameters

<i>cKeyString</i>	a shortcut.
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Returns

TRUE if success.

5.41 cairo-dock-keyfile-utilities.h File Reference

Functions

- GKeyFile * [cairo_dock_open_key_file](#) (const gchar *cConfFilePath)
- void [cairo_dock_write_keys_to_file](#) (GKeyFile *pKeyFile, const gchar *cConfFilePath)
- void [cairo_dock_merge_conf_files](#) (const gchar *cConfFilePath, gchar *cReplacementConfFilePath, gchar iIdentifier)
- void [cairo_dock_upgrade_conf_file_full](#) (const gchar *cConfFilePath, GKeyFile *pKeyFile, const gchar *cDefaultConfFilePath, 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 *cAuthorizedValues, 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,...)

5.41.1 Detailed Description

This class provides useful functions to manipulate the conf files of Cairo-Dock, which are classic group/key pair files.

5.41.2 Function Documentation

5.41.2.1 `GKeyFile* cairo_dock_open_key_file (const gchar * cConfFilePath)`

Open a conf file to be read/written. Returns NULL if the file couldn't be found/opened/parsed. Free it with `g_key_file_free` after you're done.

5.41.2.2 `void cairo_dock_write_keys_to_file (GKeyFile * pKeyFile, const gchar * cConfFilePath)`

Write a key file on the disk.

5.41.2.3 `void cairo_dock_merge_conf_files (const gchar * cConfFilePath, 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.

Parameters

<i>cConfFilePath</i>	an up-to-date conf-file with old values, that will be updated.
<i>cReplacementConfFilePath</i>	an old conf-file containing values we want to use
<i>iIdentifier</i>	a character to filter the keys, or 0.

5.41.2.4 `void cairo_dock_upgrade_conf_file_full (const gchar * cConfFilePath, GKeyFile * pKeyFile, const gchar * cDefaultConfFilePath, gboolean bUpdateKeys)`

Update a conf-file, by merging values from a given key-file into a template conf-file.

Parameters

<i>cConfFilePath</i>	path to the conf-file to update.
<i>pKeyFile</i>	a key-file with correct values, but old comments and possibly missing or old keys. It is not modified by the function.
<i>cDefaultConfFilePath</i>	a template conf-file.
<i>bUpdateKeys</i>	whether to remove old keys (hidden and persistent) or not.

5.41.2.5 `void cairo_dock_get_conf_file_version (GKeyFile * pKeyFile, gchar ** cConfFileVersion)`

Get the version of a conf file. The version is written on the first line of the file, as a comment.

5.41.2.6 `gboolean cairo_dock_conf_file_needs_update (GKeyFile * pKeyFile, const gchar * cVersion)`

Say if a conf file's version mismatches a given version.

5.41.2.7 `void cairo_dock_add_remove_element_to_key (const gchar * cConfFilePath, const gchar * cGroupName, const gchar * cKeyName, gchar * cElementName, gboolean bAdd)`

Add or remove a value in a list of values to a given (group,key) pair of a conf file.

5.41.2.8 void `cairo_dock_add_group_key_to_conf_file` (`GKeyFile * pKeyFile`, `const gchar * cGroupName`, `const gchar * ckeyName`, `const gchar * cInitialValue`, `CairoDockGUIWidgetType iWidgetType`, `const gchar * cAuthorizedValues`, `const gchar * cDescription`, `const gchar * cTooltip`)

Add a key to a conf file, so that it can be parsed by the GUI manager.

5.41.2.9 void `cairo_dock_remove_group_key_from_conf_file` (`GKeyFile * pKeyFile`, `const gchar * cGroupName`, `const gchar * ckeyName`)

Remove a key from a conf file.

5.41.2.10 void `cairo_dock_update_keyfile` (`const gchar * cConfFilePath`, `GType iFirstDataType`, ...)

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

<code>cConfFilePath</code>	path to the conf file.
<code>iFirstDataType</code>	type of the first value.

5.42 cairo-dock-kwin-integration.h File Reference

5.42.1 Detailed Description

This class implements the integration of Kwin inside Cairo-Dock.

5.43 cairo-dock-launcher-manager.h File Reference

Macros

- `#define GLDI_OBJECT_IS_LAUNCHER_ICON(obj)`

5.43.1 Detailed Description

This class handles the Launcher Icons, which are user icons used to launch a program.

5.43.2 Macro Definition Documentation

5.43.2.1 `#define GLDI_OBJECT_IS_LAUNCHER_ICON(obj)`

Say if an object is a LauncherIcon.

Parameters

<code>obj</code>	the object.
------------------	-------------

Returns

TRUE if the object is a LauncherIcon.

5.44 cairo-dock-manager.h File Reference

Data Structures

- struct [_GldiManager](#)
Definition of a Manager.

Macros

- #define [GLDI_OBJECT_IS_MANAGER\(obj\)](#)

5.44.1 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.

5.44.2 Macro Definition Documentation

5.44.2.1 #define GLDI_OBJECT_IS_MANAGER(obj)

Say if an object is a Manager.

Parameters

<i>obj</i>	the object.
------------	-------------

Returns

TRUE if the object is a Manager.

5.45 cairo-dock-menu.h File Reference

Macros

- #define [gldi_submenu_new\(...\)](#)
- #define [gldi_menu_item_new\(cLabel, cImage\)](#)
- #define [gldi_menu_add_sub_menu\(pMenu, cLabel, cImage\)](#)

Functions

- GtkWidget * [gldi_menu_new](#) (Icon *pIcon)
- void [gldi_menu_init](#) (GtkWidget *pMenu, Icon *pIcon)
- void [gldi_menu_popup](#) (GtkWidget *menu)
- GtkWidget * [gldi_menu_item_new_full](#) (const gchar *cLabel, const gchar *cImage, gboolean bUseMnemonic, GtkIconSize iSize)
- GtkWidget * [gldi_menu_item_new_with_action](#) (const gchar *cLabel, const gchar *cImage, GCallback pFunction, gpointer pData)
- GtkWidget * [gldi_menu_item_new_with_submenu](#) (const gchar *cLabel, const gchar *cImage, GtkWidget **pSubMenuPtr)

- void [gldi_menu_item_set_image](#) (GtkWidget *pMenuItem, GtkWidget *image)
- GtkWidget * [gldi_menu_item_get_image](#) (GtkWidget *pMenuItem)
- GtkWidget * [gldi_menu_add_item](#) (GtkWidget *pMenu, const gchar *cLabel, const gchar *cImage, G-Callback pFunction, gpointer pData)
- GtkWidget * [gldi_menu_add_sub_menu_full](#) (GtkWidget *pMenu, const gchar *cLabel, const gchar *cImage, GtkWidget **pMenuItemPtr)

5.45.1 Detailed Description

This class defines the Menu. They are classical menus, but with a custom looking.

5.45.2 Macro Definition Documentation

5.45.2.1 #define gldi_submenu_new(...)

Creates a new sub-menu. It's just a menu that doesn't point on an Icon/Container.

5.45.2.2 #define gldi_menu_item_new(cLabel, cImage)

A convenient function to create a menu-item with a label and an image.

Parameters

<i>cLabel</i>	the label, or NULL
<i>cImage</i>	the image path or name, or NULL

Returns

the new menu-item.

5.45.2.3 #define gldi_menu_add_sub_menu(pMenu, cLabel, cImage)

A convenient function to add a sub-menu to a given menu.

Parameters

<i>pMenu</i>	the menu
<i>cLabel</i>	the label, or NULL
<i>cImage</i>	the image path or name, or NULL

Returns

the new sub-menu that has been added.

5.45.3 Function Documentation

5.45.3.1 GtkWidget* gldi_menu_new (Icon * pIcon)

Creates a new menu that will point on a given Icon. If the Icon is NULL, it will be placed under the mouse.

Parameters

<i>pIcon</i>	the icon, or NULL
--------------	-------------------

Returns

the new menu.

5.45.3.2 void gldi_menu_init (GtkWidget * pMenu, Icon * pIcon)

Initialize a menu, so that it can be drawn and placed correctly. It's useful if the menu was created beforehand (like a DbusMenu).

Parameters

<i>pIcon</i>	the icon, or NULL
--------------	-------------------

5.45.3.3 void gldi_menu_popup (GtkWidget * menu)

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

<i>menu</i>	the menu.
-------------	-----------

5.45.3.4 GtkWidget* gldi_menu_item_new_full (const gchar * cLabel, const gchar * cImage, gboolean bUseMnemonic, GtkIconSize iSize)

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

<i>cLabel</i>	the label, or NULL
<i>cImage</i>	the image path or name, or NULL
<i>bUseMnemonic</i>	whether to use the mnemonic inside the label or not
<i>iSize</i>	size of the image, or 0 to use the default size

Returns

the new menu-item.

5.45.3.5 GtkWidget* gldi_menu_item_new_with_action (const gchar * cLabel, const gchar * cImage, GCallback pFunction, gpointer pData)

A convenient function to create a menu-item with a label, an image, and an associated action.

Parameters

<i>cLabel</i>	the label, or NULL
<i>cImage</i>	the image path or name, or NULL

<i>pFunction</i>	the callback
<i>pData</i>	the data passed to the callback

Returns

the new menu-item.

5.45.3.6 `GtkWidget* gldi_menu_item_new_with_submenu (const gchar * cLabel, const gchar * clmage, GtkWidget ** pSubMenuPtr)`

A convenient function to create a menu-item with a label, an image, and an associated sub-menu.

Parameters

<i>cLabel</i>	the label
<i>clmage</i>	the image path or name, or NULL
<i>pSubMenuPtr</i>	pointer that will contain the new sub-menu, or NULL

Returns

the new menu-item.

5.45.3.7 `void gldi_menu_item_set_image (GtkWidget * pMenuItem, GtkWidget * 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).

Parameters

<i>pMenuItem</i>	the menu-item
<i>image</i>	the image

5.45.3.8 `GtkWidget* gldi_menu_item_get_image (GtkWidget * pMenuItem)`

Gets the image of a menu-item.

Parameters

<i>pMenuItem</i>	the menu-item
------------------	---------------

Returns

the gtk-image

5.45.3.9 `GtkWidget* gldi_menu_add_item (GtkWidget * pMenu, const gchar * cLabel, const gchar * clmage, GCallback pFunction, gpointer pData)`

A convenient function to add an item to a given menu.

Parameters

<i>pMenu</i>	the menu
<i>cLabel</i>	the label, or NULL
<i>cImage</i>	the image path or name, or NULL
<i>pFunction</i>	the callback
<i>pData</i>	the data passed to the callback

Returns

the new menu-entry that has been added.

5.45.3.10 `GtkWidget* gldi_menu_add_sub_menu_full (GtkWidget * pMenu, const gchar * cLabel, const gchar * cImage, GtkWidget ** pMenuItemPtr)`

A convenient function to add a sub-menu to a given menu.

Parameters

<i>pMenu</i>	the menu
<i>cLabel</i>	the label, or NULL
<i>cImage</i>	the image path or name, or NULL
<i>pMenuItemPtr</i>	pointer that will contain the new menu-item, or NULL

Returns

the new sub-menu that has been added.

5.46 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)`

5.46.1 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.

5.46.2 Macro Definition Documentation

5.46.2.1 `#define GLDI_OBJECT_IS_MODULE_INSTANCE(obj)`

Say if an object is a Module-instance.

Parameters

<i>obj</i>	the object.
------------	-------------

Returns

TRUE if the object is a Module-instance.

5.47 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_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_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...

5.47.1 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.

5.47.2 Macro Definition Documentation

5.47.2.1 #define GLDI_OBJECT_IS_MODULE(*obj*)

Say if an object is a Module.

Parameters

<i>obj</i>	the object.
------------	-------------

Returns

TRUE if the object is a Module.

5.47.3 Function Documentation

5.47.3.1 GldiModule* gldi_module_new (GldiVisitCard * *pVisitCard*, GldiModuleInterface * *pInterface*)

Create a new module. The module takes ownership of the 2 arguments, unless an error occured.

Parameters

<i>pVisitCard</i>	the visit card of the module
<i>pInterface</i>	the interface of the module

Returns

the new module, or NULL if the visit card is invalid.

5.47.3.2 GldiModule* gldi_module_new_from_so_file (const gchar * *cSoFilePath*)

Create a new module from a .so file.

Parameters

<i>cSoFilePath</i>	path to the .so file
--------------------	----------------------

Returns

the new module, or NULL if an error occured.

5.47.3.3 void gldi_modules_new_from_directory (const gchar * *cModuleDirPath*, GError ** *erreur*)

Create new modules from all the .so files contained in the given folder.

Parameters

<i>cModuleDirPath</i>	path to the folder
<i>erreur</i>	an error

Returns

the new module, or NULL if an error occurred.

5.47.3.4 `gchar* gldi_module_get_config_dir (GldiModule * pModule)`

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.

Parameters

<i>pModule</i>	the module
----------------	------------

Returns

the path to the folder (free it after use).

5.47.3.5 `GldiModule* gldi_module_get (const gchar * cModuleName)`

Get the module which has a given name.

Parameters

<i>cModuleName</i>	the unique name of the module.
--------------------	--------------------------------

Returns

the module, or NULL if not found.

5.47.3.6 `void gldi_module_activate (GldiModule * module)`

Create and initialize all the instances of a module.

Parameters

<i>module</i>	the module to activate.
---------------	-------------------------

5.47.3.7 `void gldi_module_deactivate (GldiModule * module)`

Stop and destroy all the instances of a module.

Parameters

<i>module</i>	the module to deactivate
---------------	--------------------------

5.48 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 }`
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)`

5.48.1 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.

5.48.2 Macro Definition Documentation

5.48.2.1 #define gldi_object_notify(*pObject*, *iNotifType*, ...)

Broadcast a notification on a given object, and on all its managers.

Parameters

<i>pObject</i>	the object (Icon, Container, Manager, ...).
<i>iNotifType</i>	type of the notification.
...	parameters to be passed to the callbacks that have registered to this notification.

5.48.3 Enumeration Type Documentation

5.48.3.1 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

5.48.4 Function Documentation

5.48.4.1 GldiObject* gldi_object_new (GldiObjectManager * pMgr, gpointer attr)

Create a new object.

Parameters

<i>pMgr</i>	the ObjectManager
<i>attr</i>	the attributes of the object

Returns

the new object, with a reference of 1; use [gldi_object_unref](#) to destroy it

5.48.4.2 void gldi_object_ref (GldiObject * pObject)

Take a reference on an object.

Parameters

<i>pObject</i>	the Object
----------------	------------

5.48.4.3 void gldi_object_unref (GldiObject * pObject)

Drop your reference on an object. If it's the last reference, the object is destroyed, otherwise nothing happen.

Parameters

<i>pObject</i>	the Object
----------------	------------

5.48.4.4 void gldi_object_delete (GldiObject * pObject)

Delete an object from the current theme. The object is unref'd, and won't be created again on next startup.

Parameters

<i>pObject</i>	the Object
----------------	------------

5.48.4.5 void `gldi_object_reload (GldiObject * pObject, gboolean bReloadConfig)`

Reload an object.

Parameters

<i>pObject</i>	the Object
<i>bReloadConfig</i>	TRUE to read its config file again (if the object has one)

5.48.4.6 void `gldi_object_register_notification (gpointer pObject, GldiNotificationType iNotifType, GldiNotificationFunc pFunction, gboolean bRunFirst, gpointer pUserData)`

Register an action to be called when a given notification is broadcasted from a given object.

Parameters

<i>pObject</i>	the object (Icon, Container, Manager).
<i>iNotifType</i>	type of the notification.
<i>pFunction</i>	callback.
<i>bRunFirst</i>	GLDI_RUN_FIRST to be called before Cairo-Dock, GLDI_RUN_AFTER to be called after.
<i>pUserData</i>	data to be passed as the first parameter of the callback.

5.48.4.7 void `gldi_object_remove_notification (gpointer pObject, GldiNotificationType iNotifType, GldiNotificationFunc pFunction, gpointer pUserData)`

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.

Parameters

<i>pObject</i>	the object (Icon, Container, Manager) for which the action has been registered.
<i>iNotifType</i>	type of the notification.
<i>pFunction</i>	callback.
<i>pUserData</i>	data that was registerd with the callback.

5.49 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 gchar *cText, [CairoDockGLFont](#) *pFont)
- void [cairo_dock_draw_gl_text_at_position](#) (const gchar *cText, [CairoDockGLFont](#) *pFont, int x, int y)
- void [cairo_dock_draw_gl_text_in_area](#) (const gchar *cText, [CairoDockGLFont](#) *pFont, int iWidth, int iHeight, gboolean bCentered)
- void [cairo_dock_draw_gl_text_at_position_in_area](#) (const gchar *cText, [CairoDockGLFont](#) *pFont, int x, int y, int iWidth, int iHeight, gboolean bCentered)

5.49.1 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.

5.49.2 Function Documentation

5.49.2.1 `GLuint cairo_dock_create_texture_from_text_simple (const gchar * cText, const gchar * cFontDescription, cairo_t * pSourceContext, int * iWidth, int * iHeight)`

Create a texture from a text. The text is drawn in white, so that you can later colorize it with a mere `glColor`.

Parameters

<i>cText</i>	the text
<i>cFontDescription</i>	a description of the font, for instance "Monospace Bold 12"
<i>pSourceContext</i>	a cairo context, not altered by the function.
<i>iWidth</i>	a pointer that will be filled with the width of the texture.
<i>iHeight</i>	a pointer that will be filled with the height of the texture.

Returns

a newly allocated texture.

5.49.2.2 `CairoDockGLFont* cairo_dock_load_textured_font (const gchar * cFontDescription, int first, int count)`

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

<i>cFontDescription</i>	a description of the font, for instance "Monospace Bold 12"
<i>first</i>	first character to load.
<i>count</i>	number of characters to load.

Returns

a newly allocated opengl font.

5.49.2.3 `CairoDockGLFont* cairo_dock_load_textured_font_from_image (const gchar * cImagePath)`

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

<i>cImagePath</i>	path to the image.
-------------------	--------------------

Returns

a newly allocated opengl font.

5.49.2.4 void cairo_dock_free_gl_font (CairoDockGLFont * pFont)

Free an opengl font.

Parameters

<i>pFont</i>	the font.
--------------	-----------

5.49.2.5 void cairo_dock_get_gl_text_extent (const gchar * cText, CairoDockGLFont * pFont, int * iWidth, int * iHeight)

Compute the size a text will take for a given font.

Parameters

<i>cText</i>	the text
<i>pFont</i>	the font.
<i>iWidth</i>	a pointer that will be filled with the width of the text.
<i>iHeight</i>	a pointer that will be filled with the height of the text.

5.49.2.6 void cairo_dock_draw_gl_text (const gchar * cText, CairoDockGLFont * pFont)

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

<i>cText</i>	the text
<i>pFont</i>	the font.

5.49.2.7 void cairo_dock_draw_gl_text_at_position (const gchar * cText, CairoDockGLFont * pFont, int x, int y)

Like /ref cairo_dock_draw_gl_text but at a given position.

Parameters

<i>cText</i>	the text
<i>pFont</i>	the font.
<i>x</i>	x position of the left bottom corner of the text.
<i>y</i>	y position of the left bottom corner of the text.

5.49.2.8 void cairo_dock_draw_gl_text_in_area (const gchar * cText, CairoDockGLFont * pFont, int iWidth, int iHeight, gboolean bCentered)

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

<i>cText</i>	the text
<i>pFont</i>	the font.
<i>iWidth</i>	iWidth of the area.
<i>iHeight</i>	iHeight of the area
<i>bCentered</i>	whether the text is centered on the current position or not.

5.49.2.9 void `cairo_dock_draw_gl_text_at_position_in_area` (const gchar * *cText*, CairoDockGLFont * *pFont*, int *x*, int *y*, int *iWidth*, int *iHeight*, gboolean *bCentered*)

Like /ref `cairo_dock_draw_gl_text_in_area` and /ref `cairo_dock_draw_gl_text_at_position`.

Parameters

<i>cText</i>	the text
<i>pFont</i>	the font.
<i>x</i>	x position of the left bottom corner of the text.
<i>y</i>	y position of the left bottom corner of the text.
<i>iWidth</i>	iWidth of the area.
<i>iHeight</i>	iHeight of the area
<i>bCentered</i>	whether the text is centered on the given position or not.

5.50 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 fRadius, double fLineWidth, double *fLineColor)

5.50.1 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 either 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`.

5.50.2 Function Documentation

5.50.2.1 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 able to fill it with a texture, you can specify here the dimension of the path's husk.

Parameters

<i>iNbVertices</i>	maximum number of vertices the path will have
<i>x0</i>	x coordinate of the origin point
<i>y0</i>	y coordinate of the origin point
<i>iWidth</i>	width of the husk of the path.
<i>iHeight</i>	height of the husk of the path

Returns

a newly allocated path, with 1 point.

5.50.2.2 void cairo_dock_free_gl_path (CairoDockGLPath * *pPath*)

Destroy a path and free its allocated resources.

Parameters

<i>pPath</i>	the path.
--------------	-----------

5.50.2.3 void cairo_dock_gl_path_move_to (CairoDockGLPath * *pPath*, double *x0*, double *y0*)

Rewind the path, defining its origin point. The path has only 1 point after a call to this function.

Parameters

<i>pPath</i>	the path.
<i>x0</i>	x coordinate of the origin point
<i>y0</i>	y coordinate of the origin point

5.50.2.4 void cairo_dock_gl_path_set_extent (CairoDockGLPath * *pPath*, int *iWidth*, int *iHeight*)

Define the dimension of the hulk. This is needed if you intend to fill the path with a texture.

Parameters

<i>pPath</i>	the path.
<i>iWidth</i>	width of the hulk

<i>iHeight</i>	height of the hulk
----------------	--------------------

5.50.2.5 void `cairo_dock_gl_path_line_to` (`CairoDockGLPath * pPath`, `GLfloat x`, `GLfloat y`)

Add a line between the current point and a given point.

Parameters

<i>pPath</i>	the path.
<i>x</i>	x coordinate of the point
<i>y</i>	y coordinate of the point

5.50.2.6 void `cairo_dock_gl_path_rel_line_to` (`CairoDockGLPath * pPath`, `GLfloat dx`, `GLfloat dy`)

Add a line defined relatively to the current point.

Parameters

<i>pPath</i>	the path.
<i>dx</i>	horizontal offset
<i>dy</i>	vertical offset

5.50.2.7 void `cairo_dock_gl_path_curve_to` (`CairoDockGLPath * pPath`, `int iNbPoints`, `GLfloat x1`, `GLfloat y1`, `GLfloat x2`, `GLfloat y2`, `GLfloat x3`, `GLfloat y3`)

Add a Bezier cubic curve starting from the current point.

Parameters

<i>pPath</i>	the path.
<i>iNbPoints</i>	number of points used to discretize the curve
<i>x1</i>	first control point x
<i>y1</i>	first control point y
<i>x2</i>	second control point x
<i>y2</i>	second control point y
<i>x3</i>	terminal point of the curve x
<i>y3</i>	terminal point of the curve y

5.50.2.8 void `cairo_dock_gl_path_rel_curve_to` (`CairoDockGLPath * pPath`, `int iNbPoints`, `GLfloat dx1`, `GLfloat dy1`, `GLfloat dx2`, `GLfloat dy2`, `GLfloat dx3`, `GLfloat dy3`)

Add a Bezier cubic curve starting from the current point. The control and terminal points are defined relatively to the current point.

Parameters

<i>pPath</i>	the path.
<i>iNbPoints</i>	number of points used to discretize the curve
<i>dx1</i>	first control point offset x
<i>dy1</i>	first control point offset y

<i>dx2</i>	second control point offset x
<i>dy2</i>	second control point offset y
<i>dx3</i>	terminal point of the curve offset x
<i>dy3</i>	terminal point of the curve offset y

5.50.2.9 void `cairo_dock_gl_path_simple_curve_to` (`CairoDockGLPath * pPath`, int `iNbPoints`, GLfloat `x1`, GLfloat `y1`, GLfloat `x2`, GLfloat `y2`)

Add a Bezier bilinear curve starting from the current point

Parameters

<i>pPath</i>	the path.
<i>iNbPoints</i>	number of points used to discretize the curve
<i>x1</i>	control point x
<i>y1</i>	control point y
<i>x2</i>	terminal point of the curve x
<i>y2</i>	terminal point of the curve y

5.50.2.10 void `cairo_dock_gl_path_rel_simple_curve_to` (`CairoDockGLPath * pPath`, int `iNbPoints`, GLfloat `dx1`, GLfloat `dy1`, GLfloat `dx2`, GLfloat `dy2`)

Add a Bezier bilinear curve starting from the current point. The control and terminal points are defined relatively to the current point.

Parameters

<i>pPath</i>	the path.
<i>iNbPoints</i>	number of points used to discretize the curve
<i>dx1</i>	control point offset x
<i>dy1</i>	control point offset y
<i>dx2</i>	terminal point of the curve offset x
<i>dy2</i>	terminal point of the curve offset y

5.50.2.11 void `cairo_dock_gl_path_arc` (`CairoDockGLPath * pPath`, int `iNbPoints`, GLfloat `xc`, GLfloat `yc`, double `r`, double `teta0`, double `cone`)

Add an arc to the path, joining the current point to the beginning of the arc with a line.

Parameters

<i>pPath</i>	the path.
<i>iNbPoints</i>	number of points used to discretize the arc
<i>xc</i>	x coordinate of the center
<i>yc</i>	y coordinate of the center
<i>r</i>	radius
<i>teta0</i>	initial angle
<i>cone</i>	cone of the arc (a negative value means clockwise).

5.50.2.12 void `cairo_dock_stroke_gl_path` (const `CairoDockGLPath * pPath`, gboolean `bClosePath`)

Stroke a path with the current color and with the current line width.

Parameters

<i>pPath</i>	the path.
<i>bClosePath</i>	whether to close the path (that is to say, join the last point with the first one) or not.

5.50.2.13 void `cairo_dock_fill_gl_path` (const `CairoDockGLPath` * *pPath*, `GLuint` *iTexture*)

Fill a path with a texture, or with the current color if the texture is 0.

Parameters

<i>pPath</i>	the path.
<i>iTexture</i>	the texture, or 0 to fill the path with the current color. To fill the path with a gradation, use <code>GL_COLOR_ARRAY</code> and feed it with a table of colors that matches the vertices.

5.50.2.14 void `cairo_dock_draw_rounded_rectangle_opengl` (double *fFrameWidth*, double *fFrameHeight*, double *fRadius*, double *fLineWidth*, double * *fLineColor*)

Draw a rectangle with rounded corners. The rectangle will be centered at the current point. The current matrix is not altered.

Parameters

<i>fFrameWidth</i>	width of the rectangle, without the corners.
<i>fFrameHeight</i>	height of the rectangle, including the corners.
<i>fRadius</i>	radius of the corners (can be 0).
<i>fLineWidth</i>	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.
<i>fLineColor</i>	color of the line if <i>fLineWidth</i> is non nul, or color of the background otherwise.

5.51 cairo-dock-opengl.h File Reference

Data Structures

- struct [_CairoDockGLConfig](#)

This structure summarizes the available OpenGL configuration on the system.

Functions

- gboolean [gldi_gl_backend_init](#) (gboolean *bForceOpenGL*)
- gboolean [gldi_gl_container_make_current](#) (`GldiContainer` **pContainer*)
- void [gldi_gl_container_end_draw](#) (`GldiContainer` **pContainer*)
- void [cairo_dock_set_perspective_view](#) (`GldiContainer` **pContainer*)
- void [cairo_dock_set_ortho_view](#) (`GldiContainer` **pContainer*)
- void [gldi_gl_container_init](#) (`GldiContainer` **pContainer*)

5.51.1 Detailed Description

This class manages the OpenGL backend and context.

5.51.2 Function Documentation

5.51.2.1 gboolean gldi_gl_backend_init (gboolean *bForceOpenGL*)

Initialize the OpenGL backend, by trying to get a suitable GLX configuration.

Parameters

<i>bForceOpenGL</i>	whether to force the use of OpenGL, or let the function decide.
---------------------	---

Returns

TRUE if OpenGL is usable.

5.51.2.2 `gboolean gldi_gl_container_make_current (GldiContainer * pContainer)`

Make a Container's OpenGL context the current one.

Parameters

<i>pContainer</i>	the container
-------------------	---------------

Returns

TRUE if the Container's context is now the current one.

5.51.2.3 `void gldi_gl_container_end_draw (GldiContainer * pContainer)`

Ends the drawing on a Container's OpenGL context (swap buffers).

Parameters

<i>pContainer</i>	the container
-------------------	---------------

5.51.2.4 `void cairo_dock_set_perspective_view (GldiContainer * pContainer)`

Set a perspective view to the current GL context to fit a given ontainer. Perspective view accentuates the depth effect of the scene, but can distort it on the edges, and is difficult to manipulate because the size of objects depends on their position.

Parameters

<i>pContainer</i>	the container
-------------------	---------------

5.51.2.5 `void cairo_dock_set_ortho_view (GldiContainer * pContainer)`

Set an orthogonal view to the current GL context to fit a given ontainer. Orthogonal view is convenient to draw classic 2D, because the objects are not zoomed according to their position. The drawback is a poor depth effect.

Parameters

<i>pContainer</i>	the container
-------------------	---------------

5.51.2.6 `void gldi_gl_container_init (GldiContainer * pContainer)`

Set a shared default-initialized GL context on a window.

Parameters

<i>pContainer</i>	the container, not yet realized.
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5.52 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](#) *pIcon, const gchar *cImageFile, [CairoOverlayPosition](#) iPosition, gpointer data)
- [CairoOverlay](#) * [cairo_dock_add_overlay_from_surface](#) ([Icon](#) *pIcon, cairo_surface_t *pSurface, int iWidth, int iHeight, [CairoOverlayPosition](#) iPosition, gpointer data)
- [CairoOverlay](#) * [cairo_dock_add_overlay_from_texture](#) ([Icon](#) *pIcon, 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](#) ([Icon](#) *pIcon, const gchar *cImageFile, [CairoOverlayPosition](#) iPosition)
- void [cairo_dock_print_overlay_on_icon_from_surface](#) ([Icon](#) *pIcon, cairo_surface_t *pSurface, int iWidth, int iHeight, [CairoOverlayPosition](#) iPosition)

5.52.1 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](#).

5.52.2 Macro Definition Documentation

5.52.2.1 #define cairo_dock_set_overlay_scale(*pOverlay*, *_fScale*)

Set the scale of an overlay; by default it's 0.5

Parameters

<i>pOverlay</i>	the overlay
<i>_fScale</i>	the scale

5.52.2.2 #define cairo_dock_get_overlay_image_buffer(*pOverlay*)

Get the image buffer of an overlay (only useful if you need to redraw the overlay).

Parameters

<i>pOverlay</i>	the overlay
-----------------	-------------

5.52.3 Function Documentation

5.52.3.1 CairoOverlay* cairo_dock_add_overlay_from_image (Icon * *pIcon*, const gchar * *cImageFile*, CairoOverlayPosition *iPosition*, gpointer *data*)

Add an overlay on an icon from an image.

Parameters

<i>pIcon</i>	the icon
<i>cImageFile</i>	an image (if it's not a path, it is searched amongst the current theme's images)
<i>iPosition</i>	position where to display the overlay

Returns

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

Parameters

<i>data</i>	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
-------------	---

5.52.3.2 CairoOverlay* cairo_dock_add_overlay_from_surface (Icon * *pIcon*, cairo_surface_t * *pSurface*, int *iWidth*, int *iHeight*, CairoOverlayPosition *iPosition*, gpointer *data*)

Add an overlay on an icon from a surface.

Parameters

<i>pIcon</i>	the icon
<i>pSurface</i>	a cairo surface
<i>iWidth</i>	width of the surface
<i>iHeight</i>	height of the surface
<i>iPosition</i>	position where to display the overlay

<i>data</i>	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.

5.52.3.3 CairoOverlay* cairo_dock_add_overlay_from_texture (Icon * *pIcon*, GLuint *iTexture*, CairoOverlayPosition *iPosition*, gpointer *data*)

Add an overlay on an icon from a texture.

Parameters

<i>pIcon</i>	the icon
<i>iTexture</i>	a texture
<i>iPosition</i>	position where to display the overlay
<i>data</i>	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.

5.52.3.4 void cairo_dock_remove_overlay_at_position (Icon * *pIcon*, CairoOverlayPosition *iPosition*, gpointer *data*)

Remove an overlay from an icon, given its position and data.

Parameters

<i>pIcon</i>	the icon
<i>iPosition</i>	the position of the overlay
<i>data</i>	data that was set on the overlay when created; a NULL pointer is not valid.

5.52.3.5 gboolean cairo_dock_print_overlay_on_icon_from_image (Icon * *pIcon*, const gchar * *cImageFile*, CairoOverlayPosition *iPosition*)

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

<i>pIcon</i>	the icon
<i>cImageFile</i>	an image (if it's not a path, it is searched amongst the current theme's images)
<i>iPosition</i>	position where to display the overlay

Returns

TRUE if the overlay has been successfully printed.

5.52.3.6 void cairo_dock_print_overlay_on_icon_from_surface (Icon * *pIcon*, cairo_surface_t * *pSurface*, int *iWidth*, int *iHeight*, CairoOverlayPosition *iPosition*)

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

<i>pIcon</i>	the icon
<i>pSurface</i>	a cairo surface
<i>iWidth</i>	width of the surface
<i>iHeight</i>	height of the surface
<i>iPosition</i>	position where to display the overlay

Returns

TRUE if the overlay has been successfully printed.

5.53 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 }

Types of packages.

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)
- [CairoDockTask](#) * [cairo_dock_download_file_async](#) (const gchar *cURL, const gchar *cLocalPath, GFunc pCallback, gpointer data)
- gchar * [cairo_dock_get_url_data_with_post](#) (const gchar *cURL, gboolean bGetOutputHeaders, GError **erreur, const gchar *cFirstProperty,...)
- [CairoDockTask](#) * [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 *cUserPackagesDir, const gchar *cDistantPackagesDir, GHashTable *pTable)

- `CairoDockTask * cairo_dock_list_packages_async` (const gchar *cSharePackagesDir, const gchar *cUserPackagesDir, 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)

5.53.1 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`.

5.53.2 Macro Definition Documentation

5.53.2.1 #define `cairo_dock_get_url_data(cURL, erreur)`

Retrieve the data of a distant URL.

Parameters

<i>cURL</i>	distant adress to get data from.
<i>erreur</i>	an error.

Returns

the data (NULL if failed). It's an array of chars, possibly containing nul chars. Free it after using.

5.53.3 Enumeration Type Documentation

5.53.3.1 enum `CairoDockPackageType`

Types of packages.

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).

5.53.4 Function Documentation

5.53.4.1 `gboolean cairo_dock_download_file (const gchar * cURL, const gchar * cLocalPath)`

Download a distant file into a given location.

Parameters

<i>cURL</i>	adress of the file.
<i>cLocalPath</i>	a local path where to store the file.

Returns

TRUE on success, else FALSE..

5.53.4.2 `gchar* cairo_dock_download_file_in_tmp (const gchar * cURL)`

Download a distant file as a temporary file.

Parameters

<i>cURL</i>	adress of the file.
-------------	---------------------

Returns

the local path of the file on success, else NULL. Free the string after using it.

5.53.4.3 `gchar* cairo_dock_download_archive (const gchar * cURL, const gchar * cExtractTo)`

Download an archive and extract it into a given folder.

Parameters

<i>cURL</i>	adress of the file.
<i>cExtractTo</i>	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.

5.53.4.4 `CairoDockTask* cairo_dock_download_file_async (const gchar * cURL, const gchar * cLocalPath, GFunc pCallback, gpointer data)`

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).

Parameters

<i>cURL</i>	adress of the file.
<i>cLocalPath</i>	a local path where to store the file, or NULL for a temporary file.
<i>pCallback</i>	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.
<i>data</i>	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.

5.53.4.5 `gchar* cairo_dock_get_url_data_with_post (const gchar * cURL, gboolean bGetOutputHeaders, GError ** erreur, const gchar * cFirstProperty, ...)`

Retrieve the response of a POST request to a server.

Parameters

<i>cURL</i>	the URL request
<i>bGetOutput-Headers</i>	whether to retrieve the page's header.
<i>erreur</i>	an error.
<i>cFirstProperty</i>	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.

5.53.4.6 CairoDockTask* cairo_dock_get_url_data_async (const gchar * *cURL*, GFunc *pCallback*, gpointer *data*)

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).

Parameters

<i>cURL</i>	distant adress to get data from.
<i>pCallback</i>	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.
<i>data</i>	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.

5.53.4.7 void cairo_dock_free_package (CairoDockPackage * *pPackage*)

Destroy a package and free all its allocated memory.

Parameters

<i>pPackage</i>	the package.
-----------------	--------------

5.53.4.8 GHashTable* cairo_dock_list_packages (const gchar * *cSharePackagesDir*, const gchar * *cUserPackagesDir*, const gchar * *cDistantPackagesDir*, GHashTable * *pTable*)

Get a list of packages from differente sources.

Parameters

<i>cShare-PackagesDir</i>	path of a local folder containg packages or NULL.
<i>cUserPackages-Dir</i>	path of a user folder containg packages or NULL.

<i>cDistant-PackagesDir</i>	path of a distant folder containing packages or NULL.
<i>pTable</i>	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.

5.53.4.9 `CairoDockTask* cairo_dock_list_packages_async (const gchar * cSharePackagesDir, const gchar * cUserPackagesDir, const gchar * cDistantPackagesDir, CairoDockGetPackagesFunc pCallback, gpointer data, GHashTable * pTable)`

Asynchronously get a list of packages from different 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

<i>cShare-PackagesDir</i>	path of a local folder containing packages or NULL.
<i>cUserPackages-Dir</i>	path of a user folder containing packages or NULL.
<i>cDistant-PackagesDir</i>	path of a distant folder containing packages or NULL.
<i>pCallback</i>	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.
<i>data</i>	data to be passed to the callback.
<i>pTable</i>	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.

5.53.4.10 `gchar* cairo_dock_get_package_path (const gchar * cPackageName, const gchar * cSharePackagesDir, const gchar * cUserPackagesDir, const gchar * cDistantPackagesDir, CairoDockPackageType iGivenType)`

Look for a package with a given name into different 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

<i>cPackageName</i>	name of the package.
<i>cShare-PackagesDir</i>	path of a local folder containing packages or NULL.
<i>cUserPackages-Dir</i>	path of a user folder containing packages or NULL.
<i>cDistant-PackagesDir</i>	path of a distant folder containing packages or NULL.
<i>iGivenType</i>	type of package, or <code>CAIRO_DOCK_ANY_PACKAGE</code> 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.

5.54 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 [_CairoParticle](#) [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)

5.54.1 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.

5.54.2 Macro Definition Documentation

5.54.2.1 #define [cairo_dock_render_particles](#)(*pParticleSystem*)

Render all the particles of a particle system.

Parameters

<i>pParticleSystem</i>	the particle system.
------------------------	----------------------

5.54.3 Function Documentation

5.54.3.1 void [cairo_dock_render_particles_full](#) ([CairoParticleSystem](#) * *pParticleSystem*, int *iDepth*)

Render all the particles of a particle system with a given depth.

Parameters

<i>pParticleSystem</i>	the particle system.
<i>iDepth</i>	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.

5.54.3.2 CairoParticleSystem* cairo_dock_create_particle_system (int *iNbParticles*, GLuint *iTexture*, double *fWidth*, double *fHeight*)

Create a particle system.

Parameters

<i>iNbParticles</i>	number of particles of the system.
<i>iTexture</i>	texture to map on each particle.
<i>fWidth</i>	width of the system.
<i>fHeight</i>	height of the system.

Returns

a newly allocated particle system.

5.54.3.3 void cairo_dock_free_particle_system (CairoParticleSystem * *pParticleSystem*)

Destroy a particle system, freeing all the resources it was using.

Parameters

<i>pParticleSystem</i>	the particle system.
------------------------	----------------------

5.54.3.4 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

<i>pParticleSystem</i>	the particle system.
<i>pRewindParticle</i>	function called on a particle when its life is over.

Returns

TRUE if some particles are still alive.

5.55 cairo-dock-progressbar.h File Reference

Data Structures

- [struct _CairoProgressBarAttribute](#)

Attributes of a Pprogressbar.

5.55.1 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](#).

5.56 cairo-dock-separator-manager.h File Reference

Macros

- #define [GLDI_OBJECT_IS_SEPARATOR_ICON](#)(obj)

5.56.1 Detailed Description

This class handles the Separator Icons, which are user icons doing nothing.

5.56.2 Macro Definition Documentation

5.56.2.1 #define GLDI_OBJECT_IS_SEPARATOR_ICON(*obj*)

Say if an object is a SeparatorIcon.

Parameters

<i>obj</i>	the object.
------------	-------------

Returns

TRUE if the object is a SeparatorIcon.

5.57 cairo-dock-stack-icon-manager.h File Reference

Macros

- #define [GLDI_OBJECT_IS_STACK_ICON](#)(obj)

5.57.1 Detailed Description

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

5.57.2 Macro Definition Documentation

5.57.2.1 #define GLDI_OBJECT_IS_STACK_ICON(*obj*)

Say if an object is a StackIcon.

Parameters

<i>obj</i>	the object.
------------	-------------

Returns

TRUE if the object is a StackIcon.

5.58 cairo-dock-surface-factory.h File Reference

Data Structures

- struct [_CairoDockLabelDescription](#)
Description of the rendering of a text.

Macros

- #define [CAIRO_DOCK_ORIENTATION_MASK](#)
mask to get the orientation from a CairoDockLoadImageModifier.
- #define [cairo_dock_create_surface_for_square_icon](#)(cImagePath, fImageSize)
- #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_VFLIP](#),
[CAIRO_DOCK_ORIENTATION_ROT_270](#),
[CAIRO_DOCK_ANIMATED_IMAGE](#) }
Types of image loading modifiers.

Functions

- void [cairo_dock_calculate_constrained_size](#) (double *fImageWidth, double *fImageHeight, int iWidthConstraint, int iHeightConstraint, [CairoDockLoadImageModifier](#) iLoadingModifier, double *fZoomWidth, double *fZoomHeight)
- [cairo_surface_t](#) * [cairo_dock_create_surface_from_xicon_buffer](#) (gulong *pXIconBuffer, int iBufferNbElements, int iWidth, int iHeight)
- [cairo_surface_t](#) * [cairo_dock_create_surface_from_pixbuf](#) (GdkPixbuf *pixbuf, double fMaxScale, int iWidthConstraint, int iHeightConstraint, [CairoDockLoadImageModifier](#) iLoadingModifier, double *fImageWidth, double *fImageHeight, double *fZoomX, double *fZoomY)
- [cairo_surface_t](#) * [cairo_dock_create_blank_surface](#) (int iWidth, int iHeight)
- [cairo_surface_t](#) * [cairo_dock_create_surface_from_image](#) (const gchar *cImagePath, double fMaxScale, int iWidthConstraint, int iHeightConstraint, [CairoDockLoadImageModifier](#) iLoadingModifier, double *fImageWidth, double *fImageHeight, double *fZoomX, double *fZoomY)
- [cairo_surface_t](#) * [cairo_dock_create_surface_from_image_simple](#) (const gchar *cImageFile, double fImageWidth, double fImageHeight)
- [cairo_surface_t](#) * [cairo_dock_create_surface_from_icon](#) (const gchar *cImagePath, double fImageWidth, double fImageHeight)
- [cairo_surface_t](#) * [cairo_dock_create_surface_from_pattern](#) (const gchar *cImageFile, double fImageWidth, double fImageHeight, double fAlpha)
- [cairo_surface_t](#) * [cairo_dock_rotate_surface](#) ([cairo_surface_t](#) *pSurface, double fImageWidth, double fImageHeight, double fRotationAngle)
- [cairo_surface_t](#) * [cairo_dock_create_surface_from_text_full](#) (const gchar *cText, [CairoDockLabelDescription](#) *pLabelDescription, 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`)

5.58.1 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 `_CairoDockLabelDescription`, 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`).

5.58.2 Macro Definition Documentation

5.58.2.1 `#define cairo_dock_create_surface_for_square_icon(cImagePath, fImageSize)`

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

<i>cImagePath</i>	path or name of an image.
<i>fImageSize</i>	the desired surface size.

Returns

the newly allocated surface.

5.58.2.2 `#define cairo_dock_create_surface_from_text(cText, pLabelDescription, iTextWidthPtr, iTextHeightPtr)`

Create a surface representing a text, according to a given text description.

Parameters

<i>cText</i>	the text.
<i>pLabelDescription</i>	description of the text rendering.
<i>iTextWidthPtr</i>	will be filled the width of the resulting surface.
<i>iTextHeightPtr</i>	will be filled the height of the resulting surface.

Returns

the newly allocated surface.

5.58.3 Enumeration Type Documentation

5.58.3.1 `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.

5.58.4 Function Documentation

5.58.4.1 void `cairo_dock_calculate_constrained_size` (double * *fImageWidth*, double * *fImageHeight*, int *iWidthConstraint*, int *iHeightConstraint*, CairoDockLoadImageModifier *iLoadingModifier*, double * *fZoomWidth*, double * *fZoomHeight*)

Calculate the size of an image according to a constraint on width and height, and a loading modifier.

Parameters

<i>fImageWidth</i>	pointer to the width of the image. Initially contains the width of the original image, and is updated with the resulting width.
<i>fImageHeight</i>	pointer to the height of the image. Initially contains the height of the original image, and is updated with the resulting height.
<i>iWidthConstraint</i>	constraint on width (0 <=> no constraint).
<i>iHeightConstraint</i>	constraint on height (0 <=> no constraint).
<i>iLoadingModifier</i>	a mask of different loading modifiers.
<i>fZoomWidth</i>	will be filled with the zoom that has been applied on width.
<i>fZoomHeight</i>	will be filled with the zoom that has been applied on height.

5.58.4.2 `cairo_surface_t*` `cairo_dock_create_surface_from_xicon_buffer` (*gulong* * *pXIconBuffer*, int *iBufferNbElements*, int *iWidth*, int *iHeight*)

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

<i>pXIconBuffer</i>	raw data of the icon.
<i>iBufferNbElements</i>	number of elements in the buffer.
<i>iWidth</i>	will be filled with the resulting width of the surface.
<i>iHeight</i>	will be filled with the resulting height of the surface.

Returns

the newly allocated surface.

5.58.4.3 `cairo_surface_t*` `cairo_dock_create_surface_from_pixbuf` (`GdkPixbuf *` *pixbuf*, `double` *fMaxScale*, `int` *iWidthConstraint*, `int` *iHeightConstraint*, `CairoDockLoadImageModifier` *iLoadingModifier*, `double *` *fImageWidth*, `double *` *fImageHeight*, `double *` *fZoomX*, `double *` *fZoomY*)

Create a surface from a `GdkPixbuf`.

Parameters

<i>pixbuf</i>	the pixbuf.
<i>fMaxScale</i>	maximum zoom of the icon.
<i>iWidthConstraint</i>	constraint on the width, or 0 to not constraint it.
<i>iHeightConstraint</i>	constraint on the height, or 0 to not constraint it.
<i>iLoadingModifier</i>	a mask of different loading modifiers.
<i>flmageWidth</i>	will be filled with the resulting width of the surface (hors zoom).
<i>flmageHeight</i>	will be filled with the resulting height of the surface (hors zoom).
<i>fZoomX</i>	if non NULL, will be filled with the zoom that has been applied on width.
<i>fZoomY</i>	if non NULL, will be filled with the zoom that has been applied on width.

Returns

the newly allocated surface.

5.58.4.4 `cairo_surface_t* cairo_dock_create_blank_surface (int iWidth, int iHeight)`

Create an empty surface (transparent) of a given size. In OpenGL mode, this surface can act as a buffer to generate a texture.

Parameters

<i>iWidth</i>	width of the surface.
<i>iHeight</i>	height of the surface.

Returns

the newly allocated surface.

5.58.4.5 `cairo_surface_t* cairo_dock_create_surface_from_image (const gchar * clmagePath, double fMaxScale, int iWidthConstraint, int iHeightConstraint, CairoDockLoadImageModifier iLoadingModifier, double * flmageWidth, double * flmageHeight, double * fZoomX, double * fZoomY)`

Create a surface from any image.

Parameters

<i>clmagePath</i>	complete path to the image.
<i>fMaxScale</i>	maximum zoom of the icon.
<i>iWidthConstraint</i>	constraint on the width, or 0 to not constraint it.
<i>iHeightConstraint</i>	constraint on the height, or 0 to not constraint it.
<i>iLoadingModifier</i>	a mask of different loading modifiers.
<i>flmageWidth</i>	will be filled with the resulting width of the surface (hors zoom).
<i>flmageHeight</i>	will be filled with the resulting height of the surface (hors zoom).
<i>fZoomX</i>	if non NULL, will be filled with the zoom that has been applied on width.
<i>fZoomY</i>	if non NULL, will be filled with the zoom that has been applied on width.

Returns

the newly allocated surface.

5.58.4.6 `cairo_surface_t*` `cairo_dock_create_surface_from_image_simple` (`const gchar *` *clmageFile*, `double` *fImageWidth*, `double` *fImageHeight*)

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

<i>cImageFile</i>	path or name of an image.
<i>fImageWidth</i>	the desired surface width.
<i>fImageHeight</i>	the desired surface height.

Returns

the newly allocated surface.

5.58.4.7 `cairo_surface_t* cairo_dock_create_surface_from_icon (const gchar * cImagePath, double fImageWidth, double fImageHeight)`

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.

Parameters

<i>cImagePath</i>	path or name of an image.
<i>fImageWidth</i>	the desired surface width.
<i>fImageHeight</i>	the desired surface height.

Returns

the newly allocated surface.

5.58.4.8 `cairo_surface_t* cairo_dock_create_surface_from_pattern (const gchar * cImageFile, double fImageWidth, double fImageHeight, double fAlpha)`

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

<i>cImageFile</i>	path or name of an image that will be repeated to fill the surface.
<i>fImageWidth</i>	the desired surface width.
<i>fImageHeight</i>	the desired surface height.
<i>fAlpha</i>	transparency of the pattern (1 means opaque).

Returns

the newly allocated surface.

5.58.4.9 `cairo_surface_t* cairo_dock_rotate_surface (cairo_surface_t * pSurface, double fImageWidth, double fImageHeight, double fRotationAngle)`

Create a surface by rotating another. Only works for 1/4 of rounds.

Parameters

<i>pSurface</i>	surface to rotate.
<i>fImageWidth</i>	the width of the surface.

<i>fImageHeight</i>	the height of the surface.
<i>fRotationAngle</i>	rotation angle to apply, in radians.

Returns

the newly allocated surface.

5.58.4.10 `cairo_surface_t* cairo_dock_create_surface_from_text_full (const gchar * cText, CairoDockLabelDescription * pLabelDescription, double fMaxScale, int iMaxWidth, int * iTextWidth, int * iTextHeight)`

Create a surface representing a text, according to a given text description.

Parameters

<i>cText</i>	the text.
<i>pLabelDescription</i>	description of the text rendering.
<i>fMaxScale</i>	maximum zoom of the text.
<i>iMaxWidth</i>	maximum authorized width for the surface; it will be zoomed in to fits this limit. 0 for no limit.
<i>iTextWidth</i>	will be filled the width of the resulting surface.
<i>iTextHeight</i>	will be filled the height of the resulting surface.

Returns

the newly allocated surface.

5.58.4.11 `cairo_surface_t* cairo_dock_duplicate_surface (cairo_surface_t * pSurface, double fWidth, double fHeight, double fDesiredWidth, double fDesiredHeight)`

Create a surface identical to another, possibly resizing it.

Parameters

<i>pSurface</i>	surface to duplicate.
<i>fWidth</i>	the width of the surface.
<i>fHeight</i>	the height of the surface.
<i>fDesiredWidth</i>	desired width of the copy (0 to keep the same size).
<i>fDesiredHeight</i>	desired height of the copy (0 to keep the same size).

Returns

the newly allocated surface.

5.59 cairo-dock-task.h File Reference

Data Structures

- struct [_CairoDockTask](#)
Definition of a periodic and asynchronous Task.

Macros

- #define [cairo_dock_new_task](#)(iPeriod, get_data, update, pSharedMemory)
- #define [cairo_dock_get_task_elapsed_time](#)(pTask)

Typedefs

- typedef void(* [CairoDockGetDataAsyncFunc](#))(gpointer pSharedMemory)
Definition of the asynchronous job, that does the heavy part.
- typedef gboolean(* [CairoDockUpdateSyncFunc](#))(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.

Enumerations

- enum [CairoDockFrequencyState](#)
Type of frequency for a periodic task. The frequency of the Task is divided by 2, 4, and 10 for each state.

Functions

- void [cairo_dock_launch_task](#) ([CairoDockTask](#) *pTask)
- void [cairo_dock_launch_task_delayed](#) ([CairoDockTask](#) *pTask, double fDelay)
- [CairoDockTask](#) * [cairo_dock_new_task_full](#) (int iPeriod, [CairoDockGetDataAsyncFunc](#) get_data, [CairoDockUpdateSyncFunc](#) update, GFreeFunc free_data, gpointer pSharedMemory)
- void [cairo_dock_stop_task](#) ([CairoDockTask](#) *pTask)
- void [cairo_dock_discard_task](#) ([CairoDockTask](#) *pTask)
- void [cairo_dock_free_task](#) ([CairoDockTask](#) *pTask)
- gboolean [cairo_dock_task_is_active](#) ([CairoDockTask](#) *pTask)
- gboolean [cairo_dock_task_is_running](#) ([CairoDockTask](#) *pTask)
- void [cairo_dock_change_task_frequency](#) ([CairoDockTask](#) *pTask, int iNewPeriod)
- void [cairo_dock_relaunch_task_immediately](#) ([CairoDockTask](#) *pTask, int iNewPeriod)
- void [cairo_dock_downgrade_task_frequency](#) ([CairoDockTask](#) *pTask)
- void [cairo_dock_set_normal_task_frequency](#) ([CairoDockTask](#) *pTask)

5.59.1 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 [cairo_dock_new_task](#), launch it with [cairo_dock_launch_task](#), and destroy it with [cairo_dock_free_task](#).

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.

5.59.2 Macro Definition Documentation

5.59.2.1 #define cairo_dock_new_task(*iPeriod*, *get_data*, *update*, *pSharedMemory*)

Create a periodic Task.

Parameters

<i>iPeriod</i>	time between 2 iterations, possibly nul for a Task to be executed once only.
<i>get_data</i>	asynchronous function, which carries out the heavy job parallel to the dock; stores the results in the shared memory.
<i>update</i>	synchronous function, which carries out the update of the dock from the result of the previous function. Returns TRUE to continue, FALSE to stop.
<i>pSharedMemory</i>	structure passed as a parameter of the <i>get_data</i> and <i>update</i> functions. Must not be accessed outside of these functions !

Returns

the newly allocated Task, ready to be launched with [cairo_dock_launch_task](#). Free it with [cairo_dock_free_task](#).

5.59.2.2 #define cairo_dock_get_task_elapsed_time(*pTask*)

Get the time elapsed since the last time the Task has run.

Parameters

<i>pTask</i>	the periodic Task.
--------------	--------------------

5.59.3 Function Documentation

5.59.3.1 void cairo_dock_launch_task (CairoDockTask * *pTask*)

Launch a periodic Task, beforehand prepared with [cairo_dock_new_task](#). The first iteration is executed immediately. The frequency returns to its normal state.

Parameters

<i>pTask</i>	the periodic Task.
--------------	--------------------

5.59.3.2 void cairo_dock_launch_task_delayed (CairoDockTask * *pTask*, double *fDelay*)

Same as above but after a delay.

Parameters

<i>pTask</i>	the periodic Task.
<i>fDelay</i>	delay in ms.

5.59.3.3 CairoDockTask* cairo_dock_new_task_full (int *iPeriod*, CairoDockGetDataAsyncFunc *get_data*, CairoDockUpdateSyncFunc *update*, GFreeFunc *free_data*, gpointer *pSharedMemory*)

Create a periodic Task.

Parameters

<i>iPeriod</i>	time between 2 iterations, possibly nul for a Task to be executed once only.
<i>get_data</i>	asynchronous function, which carries out the heavy job parallel to the dock; stores the results in the shared memory.
<i>update</i>	synchronous function, which carries out the update of the dock from the result of the previous function. Returns TRUE to continue, FALSE to stop.
<i>free_data</i>	function called when the Task is destroyed, to free the shared memory (optional).
<i>pSharedMemory</i>	structure passed as a parameter of the <i>get_data</i> and <i>update</i> functions. Must not be accessed outside of these functions !

Returns

the newly allocated Task, ready to be launched with [cairo_dock_launch_task](#). Free it with [cairo_dock_free_task](#).

5.59.3.4 void [cairo_dock_stop_task](#) (CairoDockTask * *pTask*)

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 [cairo_dock_launch_task](#).

Parameters

<i>pTask</i>	the periodic Task.
--------------	--------------------

5.59.3.5 void [cairo_dock_discard_task](#) (CairoDockTask * *pTask*)

Discard a periodic Task. The asynchronous thread will continue, and the Task will be freed when it ends. Use this function carefully, since you don't know when the free will occur (especially if you've set a *free_data* callback). The Task should be considered as destroyed after a call to this function.

Parameters

<i>pTask</i>	the periodic Task.
--------------	--------------------

5.59.3.6 void [cairo_dock_free_task](#) (CairoDockTask * *pTask*)

Stop and destroy a periodic Task, freeing all the allocated resources. Unlike [cairo_dock_discard_task](#), the task is stopped before being freed, so this is a blocking call. If you want to destroy the task inside the update callback, don't use this function; use [cairo_dock_discard_task](#) instead.

Parameters

<i>pTask</i>	the periodic Task.
--------------	--------------------

5.59.3.7 gboolean [cairo_dock_task_is_active](#) (CairoDockTask * *pTask*)

Tell if a Task is active, that is to say is periodically called.

Parameters

<i>pTask</i>	the periodic Task.
--------------	--------------------

Returns

TRUE if the Task is active.

5.59.3.8 gboolean cairo_dock_task_is_running (CairoDockTask * *pTask*)

Tell if a Task is running, that is to say it is either in the thread or waiting for the update.

Parameters

<i>pTask</i>	the periodic Task.
--------------	--------------------

Returns

TRUE if the Task is running.

5.59.3.9 void cairo_dock_change_task_frequency (CairoDockTask * pTask, int iNewPeriod)

Change the frequency of a Task. The next iteration is re-scheduled according to the new period.

Parameters

<i>pTask</i>	the periodic Task.
<i>iNewPeriod</i>	the new period between 2 iterations of the Task, in s.

5.59.3.10 void cairo_dock_relaunch_task_immediately (CairoDockTask * pTask, int iNewPeriod)

Change the frequency of a Task and relaunch it immediately. The next iteration is therefore immediately executed.

Parameters

<i>pTask</i>	the periodic Task.
<i>iNewPeriod</i>	the new period between 2 iterations of the Task, in s, or -1 to let it unchanged.

5.59.3.11 void cairo_dock_downgrade_task_frequency (CairoDockTask * pTask)

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

<i>pTask</i>	the periodic Task.
--------------	--------------------

5.59.3.12 void cairo_dock_set_normal_task_frequency (CairoDockTask * pTask)

Set the frequency of the Task to its normal state. This is also done automatically when launching the Task.

Parameters

<i>pTask</i>	the periodic Task.
--------------	--------------------

5.60 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)
- 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 bLoadLaunchers)
- CairoDockTask * `cairo_dock_import_theme_async` (const gchar *cThemeName, gboolean bLoadBehavior, gboolean bLoadLaunchers, GFunc pCallback, gpointer data)

5.60.1 Detailed Description

This class allows defines the structure of the global theme of the dock (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.

5.60.2 Function Documentation

5.60.2.1 void `cairo_dock_update_conf_file` (const gchar * *cConfFilePath*, GType *iFirstDataType*, ...)

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

<i>cConfFilePath</i>	path to the conf file.
<i>iFirstDataType</i>	type of the first value.

5.60.2.2 void `cairo_dock_write_keys_to_conf_file` (GKeyFile * *pKeyFile*, const gchar * *cConfFilePath*)

Write a key file on the disk.

Parameters

<i>pKeyFile</i>	the key-file
<i>cConfFilePath</i>	its path on the disk

5.60.2.3 gboolean `cairo_dock_export_current_theme` (const gchar * *cNewThemeName*, gboolean *bSaveBehavior*, gboolean *bSaveLaunchers*)

Export the current theme to a given name. Exported themes can be imported directly from the Theme Manager.

Parameters

<i>cNewThemeName</i>	name to export the theme to.
<i>bSaveBehavior</i>	whether to save the behavior paremeters too.
<i>bSaveLaunchers</i>	whether to save the launchers too.

Returns

TRUE if the theme could be exported succefully.

5.60.2.4 gboolean `cairo_dock_package_current_theme` (const gchar * *cThemeName*, const gchar * *cDirPath*)

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

<i>cThemeName</i>	name of the package.
<i>cDirPath</i>	path to the directory

Returns

TRUE if the theme could be packaged succesfully.

5.60.2.5 `gchar* cairo_dock_depackage_theme (const gchar * cPackagePath)`

Extract a package into the themes folder. Does not load it.

Parameters

<i>cPackagePath</i>	path of a package. If the package is distant, it is first downloaded.
---------------------	---

Returns

the path of the theme folder, or NULL if an error occurred.

5.60.2.6 `gboolean cairo_dock_delete_themes (gchar ** cThemesList)`

Remove some exported themes from the hard-disk.

Parameters

<i>cThemesList</i>	a list of theme names, NULL-terminated.
--------------------	---

Returns

TRUE if the themes has been successfully deleted.

5.60.2.7 `gboolean cairo_dock_import_theme (const gchar * cThemeName, gboolean bLoadBehavior, gboolean bLoadLaunchers)`

Import a theme, which can be : a local theme, a user theme, a distant theme, or even the path to a packaged theme.

Parameters

<i>cThemeName</i>	name of the theme to import.
<i>bLoadBehavior</i>	whether to import the behavior parameters too.
<i>bLoadLaunchers</i>	whether to import the launchers too.

Returns

TRUE if the theme could be imported successfully.

5.60.2.8 `CairoDockTask* cairo_dock_import_theme_async (const gchar * cThemeName, gboolean bLoadBehavior, gboolean bLoadLaunchers, GFunc pCallback, gpointer data)`

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

<i>cThemeName</i>	name of the theme to import.
<i>bLoadBehavior</i>	whether to import the behavior parameters too.
<i>bLoadLaunchers</i>	whether to import the launchers too.
<i>pCallback</i>	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.
<i>data</i>	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.

5.61 cairo-dock-user-icon-manager.h File Reference

Macros

- `#define GLDI_OBJECT_IS_USER_ICON(obj)`

5.61.1 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.

5.61.2 Macro Definition Documentation

5.61.2.1 `#define GLDI_OBJECT_IS_USER_ICON(obj)`

Say if an object is a UserIcon.

Parameters

<i>obj</i>	the object.
------------	-------------

Returns

TRUE if the object is a UserIcon.

5.62 cairo-dock-utils.h File Reference

Macros

- `#define cairo_dock_colors_rvb_differ(c1, c2)`
- `#define cairo_dock_colors_differ(c1, c2)`

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 *iMinorVersion, int *iMicroVersion)
- gboolean [cairo_dock_string_is_address](#) (const gchar *cString)

5.62.1 Detailed Description

Some helper functions.

5.62.2 Macro Definition Documentation

5.62.2.1 `#define cairo_dock_colors_rvb_differ(c1, c2)`

Say if 2 RGBA colors differ.

5.62.2.2 `#define cairo_dock_colors_differ(c1, c2)`

Say if 2 RGB colors differ.

5.62.3 Function Documentation

5.62.3.1 `gboolean cairo_dock_remove_version_from_string (gchar * cString)`

Remove the version number from a string. Directly modifies the string.

Parameters

<i>cString</i>	a string.
----------------	-----------

Returns

TRUE if a version has been removed.

5.62.3.2 `void cairo_dock_remove_html_spaces (gchar * cString)`

Replace the %20 by normal spaces into the string. The string is directly modified.

Parameters

<i>cString</i>	the string (it can't be a constant string)
----------------	--

5.62.3.3 `void cairo_dock_get_version_from_string (const gchar * cVersionString, int * iMajorVersion, int * iMinorVersion, int * iMicroVersion)`

Get the 3 version numbers of a string.

Parameters

<i>cVersionString</i>	the string of the form "x.y.z".
<i>iMajorVersion</i>	pointer to the major version.
<i>iMinorVersion</i>	pointer to the minor version.
<i>iMicroVersion</i>	pointer to the micro version.

5.62.3.4 `gboolean cairo_dock_string_is_address (const gchar * cString)`

Say if a string is an address ([file://xxx](#), [http://xxx](#), [ftp://xxx](#), etc).

Parameters

<i>cString</i>	a string.
----------------	-----------

Returns

TRUE if it's an address.

5.63 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)

5.63.1 Detailed Description

This class manages the windows actors and notifies for any change on them.

5.63.2 Function Documentation

5.63.2.1 void [gldi_windows_manager_register_backend](#) ([GldiWindowManagerBackend](#) * *pBackend*)

Register a Window Manager backend. NULL functions are simply ignored.

Parameters

<i>pBackend</i>	a Window Manager backend
-----------------	--------------------------

5.63.2.2 void [gldi_windows_foreach](#) (gboolean *bOrderedByZ*, GFunc *callback*, gpointer *data*)

Run a function on each window actor.

Parameters

<i>bOrderedByZ</i>	TRUE to sort by z-order, FALSE to sort by age
<i>callback</i>	the callback
<i>data</i>	user data

5.63.2.3 GldiWindowActor* gldi_windows_find (gboolean*)(GldiWindowActor *, gpointer) *callback*, gpointer *data*)

Run a function on each window actor.

Parameters

<i>callback</i>	the callback (takes the actor and the data, returns TRUE to stop)
<i>data</i>	user data

Returns

the found actor, or NULL

5.63.2.4 GldiWindowActor* gldi_windows_get_active (void)

Get the current active window actor.

Returns

the actor, or NULL if no window is currently active

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