Cairo-Dock 2.4.0~1

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Chapter 1

Cairo-Dock's API documentation.

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Installation

Main structures

- Containers
- Icons
- Dock
- Desklet
- Dialog
- Flying Container

External Modules

- First, what is a module ?
- Let's start, how do I create an empty applet?
- Ok I have a generic applet, how do I define it?
- Great, I can see my applet in the dock! Now, where should I continue?
- The notifications system.
- Ok now I have several sections of code to fill. Are there any useful functions to do it?
- How can I take advantage of the OpenGL?
- · How can I animate my applet to make it more lively?
- I have heavy treatments to do, how can I make them without slowing the dock?

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

Advanced functionnalities

- · How can I make my own widgets in the config panel?
- How can my applet control the window of an application?
- · How can I render some numerical values on my icon ?
- · How can I make my applet multi-instanciable ?
- How can I draw anywhere on the dock, not only on my icon?

1.1 Introduction

This documentation is divided into 3 parts:

- · the definition of the main classes (dock, icon, etc)
- utilities functions (interaction with X, GUI, etc)
- · plug-ins framework.

It is useful if you want to write a complex plug-in or add new features in the core (or if you just love C); to write simple applets in any language, see http://doc.glx-dock.org.

Cairo-Dock has a **decentralized conception**: it has a minimalistic core, and lets external modules extend its functionnalities.

This is a strong design, because it allows to extend functionnalities easily without having to hack into the core, which makes the project more stable and allows developpers to use high-level functions only, that are very tested and optimized.

Thus, Cairo-Dock itself has no animation, but has a convenient notification system that allows external plug-ins to animate icons when they want.

The core itself is a library made of several modules. Each module is made on the same model:

- the "factory" defines the structures/enums/interfaces of a class and creation/modification/destruction functions
- the "manager" manages all the ressources of the module and all the instances of the class
- the "facility" or "utilities" are a collection of helper functions to related to the class.

In this document, we will focus on the notification system and the plug-ins framework. Part 1 will be seen briefly, and part 2 will be let to your curiosity. This should be enough to quickly be able to write a lot of applets.

1.2 Installation 3

1.2 Installation

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

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

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

1.3 Main structures

1.3.1 Containers

See _CairoContainer for the definition of a Container, and cairo-dock-container.h for a complete description of the Container class.

1.3.2 Icons

See _lcon for the definition of an lcon, and cairo-dock-icon-factory.h for a complete description of the lcon class.

1.3.3 Dock

See _CairoDock for the definition of a Dock, and cairo-dock-dock-factory.h for a complete description of the Dock class.

1.3.4 Desklet

See _CairoDesklet for the definition of a Desklet, and cairo-dock-desklet.h for a complete description of the Desklet class.

1.3.5 Dialog

See <u>CairoDialog</u> for the definition of a Dialog, and cairo-dock-dialogs.h for a complete description of the Dialog class.

1.3.6 Flying Container

See _CairoFlyingContainer for the definition of a Flying Container, and cairo-dock-flying-container.h for a complete description of the FlyingContainer class.

1.4 External Modules

1.4.1 First, what is a module?

Modules are compiled .so files (that is to say, library) that are plugged into the dock at run-time. Therefore, they can use any function used by the dock, and have a total interaction freedom on the dock. The advantage is that applets can do anything, in fact they are extensions of the dock itself. The drawback is that a buggy applet can make the dock unstable.

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 config/data.

Modules can be instanciated several times; each time they are, an **instance** is created. This instance will hold all the data used by the module: the icon and its container, the config structure and its conf file, the data structure and a slot to plug data into containers and icons. All these parameters are optionnal; a module that has an icon is also called an **applet**.

When instanciating a module, CD will check the presence of an "Icon" group in the conf file. If there is one, it will create an icon accordingly and insert it into its container. If there is a "Desklet" group, the module is considered as detachable, and can be placed into a desklet. Here we will focus on applets, that is to say, we will have an icon and a container (dock or desklet).

1.4.2 Let's start, how do I create an empty applet?

Easy! just go to the "plug-ins" folder, and run the *generate-applet.sh* script. Answer the few questions, and you're done! Don't forget to install the plug-in each time you modify it (*sudo make install* in your applet's folder). You can see that the script has created for you the architecture of your applet:

• in the **plug-ins** parent folder, you have the "CMakeLists.txt", where you can set the version number of your applet, the dependencies, etc

in the src folder, you have the sources of your applet. It is common to put the
init/stop/reload in applet-init.c, the get_config/reset_config/reset_data in appletconfig.c, the notifications in applet-notifications.c, and the structures in appletstruct.h. Of course, you can add as many files as you want, just don't forget to
specify them in the CMakeLists.txt.

5

• in the **data** folder, you have the config file, the default icon, and a preview. You will have to choose a default icon that fits your applet, and make a preview that makes users want to try it;-) If you have other files to install, it's here you will do it. If you change the name of the default icon (for instance you use an SVG file), don't forget to modify the data/CMakeLists.txt and also the src/CMakeLists.txt.

1.4.3 Ok I have a generic applet, how do I define it?

As we saw, a module must fill a visit card and an interface, to be accepted by the dock. This is done very easily by the CD_APPLET_DEFINITION macro. All you have to give is the name of the applet, its category, a brief description/manual (very important !), and your name.

Once you have finished your applet, don't forget to make a nice preview (\sim 200x200 pixels) and a nice default icon, and place them in the *data* folder.

1.4.4 Great, I can see my applet in the dock! Now, where should I continue?

We saw that when our applet is activated, an instance is created. It is called **myApplet**, and it will hold the following:

- mylcon: this is your icon! It will act as a drawing surface to represent whatever you want.
- myDrawContext : a cairo context, to draw on your icon with the libcairo.
- myContainer: the container your icon belongs to (a Dock or a Desklet). For convenience, the following 2 parameters are availale.
- 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 conf file. You have to define it in applet-struct.h.
- myData: the structure holding all the ressources loaded at run-time. You have to define it in applet-struct.h.

The framework defines different **sections**, and all you have to do is to fill them :

 First of all you will have to get your config parameters. This is done in the CD_-APPLET_GET_CONFIG_BEGIN/CD_APPLET_GET_CONFIG_END section, in applet-config.c.

- Each time you add a parameter, think of freeing it if it's a dynamic ressource like a string; this is done in the CD_APPLET_RESET_CONFIG_BEGIN/CD_APPLET_-RESET_CONFIG_END section.
- In a similar way, you will free all the ressources you allocated by myData in the CD_APPLET_RESET_DATA_BEGIN/CD_APPLET_RESET_DATA_END section.
- After the instance is created, the dock lets you start. This is done in the CD_-APPLET_INIT_BEGIN/CD_APPLET_INIT_END section. At this point, myApplet is already fully defined, and myConfig has been filled. Therefore you can already draw on your icon, launch timers, register to notifications, etc.
- Each time the user changes something in its config, or the desklet is resized, your applet is reloaded. This is done in the CD_APPLET_RELOAD_BEGIN/CD_-APPLET_RELOAD_END section. The macro CD_APPLET_MY_CONFIG_CHANGED tells you if something has changed in your config or if it's just a resizing.
- Last, when your applet is stopped, you have to stop everything you set up in the init (timers, notifications, etc) in the CD_APPLET_STOP_BEGIN/CD_APPLET_-STOP_END section.

1.4.5 The notifications system.

When something happens, Cairo-Dock notifies everybody about it, including itself. An applet can register to any notification (see cairo-dock-notifications.h) before or after the dock, to be notified of the event of its choice. When you are notified, the function you registered for this event will be called; it must match the notification prototype as defined in cairo-dock-notifications.h.

For instance if you want to know when the user clicks on your icon, you will register to the NOTIFICATION_CLICK_ICON notification.

To register to a notification, you have the cairo_dock_register_notification_on_object function. Always unregister when your applet is stopped, to avoid being notified when you shouldn't, with the function cairo_dock_remove_notification_func_on_object.

For convenience, there are macros to register to the most common events:

- · 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

Then you just have to fill the corresponding sections:

 CD_APPLET_ON_CLICK_BEGIN/CD_APPLET_ON_CLICK_END for the actions on right click on your icon or one of its sub-dock. 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.
- 1.4.6 Ok now I have several sections of code to fill. Are there any useful functions to do it?

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

- 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 create a surface that fits your icon from an image, you can use the following:
 CD APPLET LOAD SURFACE FOR MY APPLET & cie
- To directly set an image on your icon, you can use the following:
 CD_APPLET_SET_IMAGE_ON_MY_ICON & 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

- 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
- 1.4.7 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.

1.4.8 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: $\sim\!10\text{Hz}$ or $\sim\!33\text{Hz}$. 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.

1.4.9 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 are 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.

1.4.10 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 functionnalities

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

Cairo-Dock can build itself the config panel of your applet from the config file. Moreover, it can do the opposite: update the 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 pInterface->load_custom_widget and pInterface->save_custom_widget. They will be respectively called when the config panel of your applet is raised, and when it is validated.

If you want to modify the content of an existing widget, you can grab it with <airo_dock_get_widget_from_name. 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 <airo_dock_reload_current_module_widget to reload the config panel. See the AlsaMixer or Weather applets for an easy example, and Clock or Mail for a more advanced example.

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

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

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

Cairo-Dock offers a powerful and versatile architecture for this case: _CairoDataRenderer. A DataRenderer is a generic way to render a set of values on an icon; there are several implementations of this class: Gauge, 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, mylcon, etc). Then, to indicate Cairo-Dock that your applet is multi-instanciable, you'll have to define the macro CD_-APPLET_MULTI_INSTANCE in each file. A convenient way to do that is to define it in the CMakeLists.txt by adding the following line:

```
add_definitions (-DCD_APPLET_MULTI_INSTANCE="1")
```

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

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

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Chapter 3

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cairo-dock-X-utilities.h

Chapter 4

Data Structure Documentation

4.1 _CairoContainer Struct Reference

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

Data Fields

GPtrArray * pNotificationsTab

list of available notifications.

CairoDockTypeContainer iType

type of container.

gpointer pDataSlot [CAIRO_DOCK_NB_DATA_SLOT]

External data.

GtkWidget * pWidget

window of the container.

• gint iWidth

size of the container.

• gint iWindowPositionX

position of the container.

• gboolean blnside

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

CairoDockTypeHorizontality blsHorizontal

TRUE if the container is horizontal, FALSE if vertical.

• gboolean bDirectionUp

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

• guint iSidGLAnimation

Source ID of the animation loop.

gint iAnimationDeltaT

interval of time between 2 animation steps.

• gint iMouseX

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

gint iMouseY

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

gdouble 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.

4.1.1 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

4.2 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.it

• 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.

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)

4.2.1 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

4.3 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 [optionnal].

• gchar ** cEmblems

an optionnal list of emblems to draw on the overlay.

gchar ** cLabels

an optionnal list of labels to write on the overlay.

4.3.1 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

4.4 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.

4.4.1 Detailed Description

Interface of a DataRenderer.

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

· cairo-dock-data-renderer.h

4.5 _CairoDesklet Struct Reference

Definition of a Desklet, which derives from a Container.

4.5.1 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

4.6 CairoDeskletAttribute Struct Reference

Configuration attributes of a Desklet.

4.6.1 Detailed Description

Configuration attributes of a Desklet.

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

· cairo-dock-desklet-factory.h

4.7 _CairoDeskletDecoration Struct Reference

Decoration of a Desklet.

4.7.1 Detailed Description

Decoration of a Desklet.

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

· cairo-dock-desklet-factory.h

4.8 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.

4.8.1 Detailed Description

Definition of a Desklet's renderer.

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

· cairo-dock-desklet-factory.h

4.9 _CairoDialog Struct Reference

Definition of a Dialog.

Data Fields

 CairoContainer container container.

4.9.1 Detailed Description

Definition of a Dialog.

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

· cairo-dock-dialog-factory.h

4.10 _CairoDialogAttribute Struct Reference

Configuration attributes of a Dialog.

Data Fields

- const gchar * clmageFilePath
 - path to an image to display in the left margin, or NULL.
- · gint ilconSize
 - size of the icon in the left margin, or 0 to use the default one.
- gint iNbFrames
 - number of frames of the image, if it's an animated image, otherwise 0.
- const gchar * cText
 - text of the message, or NULL.
- gint iMaxTextWidth
 - maximum authorized width of the message; it will scroll if it is too large. Set 0 to not limit it
- CairoDockLabelDescription * pTextDescription
 - A text rendering description of the message, or NULL to use the default one.
- GtkWidget * pInteractiveWidget
 - a widget to interact with the user, or NULL.
- const gchar ** cButtonsImage
 - a NULL-terminated list of images for buttons, or NULL. "ok" and "cancel" are key word to load the default "ok" and "cancel" buttons.
- CairoDockActionOnAnswerFunc pActionFunc

function that will be called when the user click on a button, or NULL.

• gpointer pUserData

data passed as a parameter of the callback, or NULL.

• GFreeFunc pFreeDataFunc

a function to free the data when the dialog is destroyed, or NULL.

gint iTimeLength

life time of the dialog (in ms), or 0 for an unlimited dialog.

• const gchar * cDecoratorName

name of a decorator, or NULL to use the default one.

• gboolean bNoInput

whether the dialog should be transparent to mouse input.

• gboolean bForceAbove

whether to pop-up the dialog in front of al other windows, including fullscreen windows.

• gboolean bHideOnClick

for a dialog with no buttons, clicking on it will close it, or hide if this boolean is TRUE.

4.10.1 Detailed Description

Configuration attributes of a Dialog.

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

· cairo-dock-dialog-factory.h

4.11 _CairoDialogDecorator Struct Reference

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

4.11.1 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

4.12 _CairoDialogRenderer Struct Reference

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

4.12.1 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

4.13 CairoDock Struct Reference

Definition of a Dock, which derives from a Container.

Data Fields

· CairoContainer 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).

· CairoDockVisibility iVisibility

visibility.

gint iScreenOffsetX

Horizontal offset of the screen where the dock lives, according to Xinerama.

gint iScreenOffsetY

Vertical offset of the screen where the dock lives, according to Xinerama.

• gint iNumScreen

number of the screen the dock is placed on (Xinerama).

• gdouble iMaxIconHeight

maximum height of the icons.

• gdouble fFlatDockWidth

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

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.

• gboolean bMenuVisible

whether the menu is visible (to keep the dock on high position).

gboolean blsDragging

whether the user is dragging something over the dock.

• gboolean bTemporaryHidden

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

gboolean bEntranceDisabled

whether mouse can't enter into the dock.

• gboolean blsShrinkingDown

whether the dock is shrinking down.

gboolean blsGrowingUp

whether the dock is growing up.

gboolean blsHiding

whether the dock is hiding.

• gboolean blsShowing

whether the dock is showing.

· gboolean blconlsFlyingAway

whether an icon is being dragged away from the dock

gboolean bPreventDraggingIcons

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

• 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.

CairoDockRenderer * pRenderer

current renderer, never NULL.

gpointer pRendererData

data that can be used by the renderer.

gboolean bCanDrop

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

CairoDockMousePositionType iMousePositionType

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

· gint iMinDockWidth

width of the dock at rest.

· gint iMinDockHeight

height of the dock at rest.

· gint iMaxDockWidth

maximum width of the dock.

· gint iMaxDockHeight

maximum height of the dock.

· gint iDecorationsWidth

width of background decorations, set by the renderer.

· gint iDecorationsHeight

height of background decorations, set by the renderer.

• gdouble fMagnitudeMax

maximal magnitude of the zoom, between 0 and 1.

· gint iActiveWidth

width of the active zone of the dock.

· gint iActiveHeight

height of the active zone of the dock.

• CairoDockInputState iInputState

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

GdkBitmap * pShapeBitmap

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

GdkBitmap * pHiddenShapeBitmap

input shape of the window when the dock is hidden.

GdkBitmap * pActiveShapeBitmap

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

• 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.

4.13.1 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

4.14 _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 togather with its class.

GList * plconsOfClass

List of the inhibitors of the class.

GList * pAppliOfClass

List of the appli icons of this class.

4.14.1 Detailed Description

Definition of a Class of application.

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

· cairo-dock-class-manager.h

4.15 _CairoDockDesktopBackground Struct Reference

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

4.15.1 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-X-manager.h

4.16 _CairoDockDesktopEnvBackend Struct Reference

Definition of the Desktop Environment backend.

4.16.1 Detailed Description

Definition of the Desktop Environment backend.

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

· cairo-dock-file-manager.h

4.17 _CairoDockGLConfig Struct Reference

This strucure summarizes the available OpenGL configuration on the system.

Data Fields

 void(* bindTexImage)(Display *display, GLXDrawable drawable, int buffer, int *attribList)

4.17.1 Detailed Description

This strucure summarizes the available OpenGL configuration on the system.

4.17.2 Field Documentation

4.17.2.1 void(*_CairoDockGLConfig::bindTexImage)(Display *display, GLXDrawable drawable, int buffer, int *attribList)

gboolean bPBufferAvailable; gint iGlxMajor, iGlxMinor; GLXPbuffer iconPbuffer; GLX-Context iconContext; gint iIconPbufferWidth, iIconPbufferHeight;

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

cairo-dock-opengl.h

4.18 _CairoDockGLFont Struct Reference

Structure used to load a font for OpenGL text rendering.

4.18.1 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

4.19 _CairoDockGLPath Struct Reference

Definition of a CairoDockGLPath.

4.19.1 Detailed Description

Definition of a CairoDockGLPath.

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

· cairo-dock-opengl-path.h

4.20 _CairoDockGroupKeyWidget Struct Reference

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

4.20.1 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

4.21 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)(CairoDockModuleInstance *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)(CairoDockModuleInstance *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.

4.21.1 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

4.22 _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 afer the icons are drawn (cairo)
- void(* post render opengl)(CairoDock *pDock, double fOffset)
 - function called afer the icons are drawn (opengl)
- void(* init)(CairoDock *pDock)

function called when the animation is started.

4.22.1 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

4.23 _CairoDockImageBuffer Struct Reference

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

4.23.1 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

4.24 _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.

4.24.1 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

4.25 _CairoDockModule Struct Reference

Definition of an external module.

Data Fields

gchar * cSoFilePath

path to the .so file.

• gpointer handle

internal structure of the .so file, once it has been opened.

CairoDockModuleInterface * pInterface

interface of the module.

CairoDockVisitCard * pVisitCard

visit card of the module.

• gchar * cConfFilePath

conf file of the module.

• gboolean bCanDetach

TRUE if the appet can be detached from a dock (desklet mode).

gdouble fLastLoadingTime

last time the module was (re)activated.

• GList * pInstancesList

List of instances of the module.

4.25.1 Detailed Description

Definition of an external module.

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

· cairo-dock-module-factory.h

4.26 _CairoDockModuleInstance Struct Reference

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

Data Fields

• CairoDockModule * 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.

• CairoContainer * 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.

4.26.1 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-factory.h

4.27 CairoDockModuleInterface Struct Reference

Definition of the interface of a module.

4.27.1 Detailed Description

Definition of the interface of a module.

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

• cairo-dock-module-factory.h

4.28 _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.

4.28.1 Detailed Description

Definition of a generic package.

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

· cairo-dock-packages.h

4.29 _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, optionnal).

• CairoDockSetSubDockPositionFunc set_subdock_position

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

• CairoDockRenderFreeDataFunc free_data

function called when the renderer is unset from the dock.

• 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.

4.29.1 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

4.30 _CairoDockTask Struct Reference

Definition of a periodic and asynchronous Task.

Data Fields

gint iSidTimer

ID of the timer of the Task.

• gint iSidTimerUpdate

ID of the timer to check the end of the thread.

· gint iThreadIsRunning

Atomic value, set to 1 when the thread is running.

· 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 (optionnal).

gboolean bDiscard

TRUE when the task has been discarded.

4.30.1 Detailed Description

Definition of a periodic and asynchronous Task.

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

· cairo-dock-task.h

4.31 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.

CairoContainer * pContainer

Container of the Icon.

4.31.1 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

4.32 _CairoDockVisitCard Struct Reference

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

4.32.1 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-factory.h

4.33 _CairoDockWMBackend Struct Reference

Definition of the Window Manager backend.

4.33.1 Detailed Description

Definition of the Window Manager backend.

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

· cairo-dock-X-manager.h

4.34 _CairoEmblem Struct Reference

Definition of an Emblem. You shouldn't access any of its fields directly.

4.34.1 Detailed Description

Definition of an Emblem. You shouldn't access any of its fields directly.

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

· cairo-dock-emblem.h

4.35 _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.

4.35.1 Detailed Description

Attributes of a Graph.

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

· cairo-dock-graph.h

4.36 _CairolconContainerRenderer Struct Reference

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

4.36.1 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

4.37 _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.

4.37.1 Detailed Description

A particle of a particle system.

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

· cairo-dock-particle-system.h

4.38 _CairoParticleSystem Struct Reference

A particle system.

4.38.1 Detailed Description

A particle system.

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

· cairo-dock-particle-system.h

Definition of an Icon.

Data Fields

• GPtrArray * pNotificationsTab

list of available notifications.

CairoDockIconTrueType iTrueType

type of the icon.

· 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 with the dock is hidden.

• gboolean bPointed

Whether the icon is currently pointed or not.

4.39.1 Detailed Description

Definition of an Icon.

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

· cairo-dock-icon-factory.h

4.40 _lconInterface Struct Reference

Icon's interface.

Data Fields

void(* load_image)(lcon *icon)

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

• gboolean(* on delete)(Icon *icon)

function called when the icon is deleted from the current theme.

void(* action_on_drag_hover)(lcon *icon)

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

4.40.1 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).

Defines

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

Typedefs

- typedef gboolean(* CairoDockTransitionRenderFunc)(Icon *pIcon, gpointer pUser-Data)
 - 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 (CairoContainer *pContainer)
- void cairo_dock_start_icon_animation (Icon *icon, CairoDock *pDock)
- void cairo_dock_request_icon_animation (Icon *pIcon, CairoDock *pDock, const gchar *cAnimation, int iNbRounds)
- void cairo dock trigger icon removal from dock (Icon *plcon)
- void cairo_dock_set_transition_on_icon (Icon *pIcon, CairoContainer *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 Define Documentation

5.1.2.1 #define cairo_dock_container_is_animating(pContainer)

Say if a container is currently animated.

Parameters

pContainer	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

pDock the Dock to animate.

5.1.2.3 #define cairo_dock_stop_icon_animation(plcon)

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

Parameters

plcon 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

pContainer 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

pContainer the container.

5.1.2.6 #define cairo_dock_has_transition(plcon)

Say if an Icon has a Transition.

Parameters

plcon the icon.

Returns

TRUE if the icon has a Transition.

5.1.2.7 #define cairo_dock_get_transition_count(plcon)

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

Parameters

plcon the icon.

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the elpased 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

```
plcon 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

plcon	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

pDock	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.

pDock	the dock.

5.1.3.3 void cairo_dock_launch_animation (CairoContainer * pContainer)

Launch the animation of a Container.

Parameters

pContainer	the container to animate.

5.1.3.4 void cairo_dock_start_icon_animation (Icon * icon, CairoDock * pDock)

Launch the animation of an Icon. Do nothing if the icon will not be animated or if the icon is at rest.

Parameters

icon	the icon to animate.
pDock	the dock containing the icon.

5.1.3.5 void cairo_dock_request_icon_animation (Icon * plcon, CairoDock * pDock, 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

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

5.1.3.6 void cairo_dock_trigger_icon_removal_from_dock (lcon * 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

plcon the icon to remove

5.1.3.7 void cairo_dock_set_transition_on_icon (Icon * plcon, CairoContainer * 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

plcon	the icon.	
pContainer	the Container of the Icon. It will be shared with the transition. the cairo rendering function.	
render		
step_cairo		
render	the openGL rendering function (can be NULL, in which case the texture map-	
step_opengl		
bFastPace		
iDuration	duration if the transition, in ms. Can be 0 for an endless transition, in which	
	case you can stop the transition with cairo_dock_remove_transition_on	
	icon.	
bRemove-	TRUE to destroy and remove the transition when it is finished.	
WhenFin-		
ished		
pUserData	data passed to the rendering functions.	
pFreeUser-	function called to free the user data when the transition is destroyed (option-	
DataFunc	nal).	

5.1.3.8 void cairo_dock_remove_transition_on_icon (Icon * plcon)

Stop and remove the Transition of an Icon.

Parameters

plcon	the icon.

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

Defines

- #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 Define 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 : mylcon, my-Dock, myDesklet, myContainer, et myDrawContext.

Parameters

_cName	nom de sous lequel l'applet sera enregistree par Cairo-Dock.		
	version majeure du dock necessaire au bon fonctionnement de l'applet.		
<i>iMajorVersion</i>			
	version mineure du dock necessaire au bon fonctionnement de l'applet.		
iMinorVersion			
	version micro du dock necessaire au bon fonctionnement de l'applet.		
<i>iMicroVersion</i>			
	Categorie de l'applet (CAIRO_DOCK_CATEGORY_ACCESSORY,		
iAppletCatego	CAIRO_DOCK_CATEGORY_DESKTOP, CAIRO_DOCK_CATEGORY		
	CONTROLER)		
	description et mode d'emploi succint de l'applet.		
cDescription			
_cAuthor	nom de l'auteur et eventuellement adresse mail.		

5.2.2.2 #define CD_APPLET_DEFINE_END

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

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

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

5.2.2.4 #define CD_APPLET_INIT_ALL_BEGIN(pApplet)

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

pApplet 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

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

5.2.2.7 #define CD_APPLET_STOP_END

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

5.2.2.8 #define CD_APPLET_RELOAD_ALL_BEGIN

Debut 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 defaut 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 defaut 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 defaut 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 defaut 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 defaut 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 defaut 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.

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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

Defines

- #define cairo_dock_set_icon_surface(plconContext, pSurface)
- #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, cDefaultFile-Name)
- #define CD_CONFIG_GET_STRING_LIST_WITH_DEFAULT(cGroupName, cKeyName, length, cDefaultValues)

- #define CD_CONFIG_GET_STRING_LIST(cGroupName, cKeyName, length)
- #define CD_CONFIG_GET_COLOR_WITH_DEFAULT(cGroupName, cKeyName, pColorBuffer, pDefaultColor)
- #define CD_CONFIG_GET_COLOR(cGroupName, cKeyName, pColorBuffer)
- #define CD_CONFIG_GET_COLOR_RVB_WITH_DEFAULT(cGroupName, cKey-Name, pColorBuffer, pDefaultColor)
- #define CD CONFIG GET COLOR RVB(cGroupName, cKeyName, pColorBuffer)
- #define CD_CONFIG_GET_THEME_PATH(cGroupName, cKeyName, cThemeDirName, cDefaultThemeName)
- #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 CREATE MY SUB MENU(...)
- #define CD_APPLET_ADD_IN_MENU_WITH_STOCK_AND_DATA(cLabel, gtk-Stock, pCallBack, pMenu, pData)
- #define CD_APPLET_ADD_IN_MENU_WITH_DATA(cLabel, pCallBack, pMenu, pData)
- #define CD APPLET ADD IN MENU(cLabel, pCallBack, pMenu)
- #define CD_APPLET_ADD_IN_MENU_WITH_STOCK(cLabel, gtkStock, pCall-Back, pMenu)
- #define CD_APPLET_ADD_SEPARATOR_IN_MENU(pMenu)
- #define CD APPLET ADD ABOUT 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 REDRAW MY ICON
- #define CAIRO_DOCK_REDRAW_MY_CONTAINER
- #define CD_APPLET_UPDATE_REFLECT_ON_MY_ICON
- #define CD_APPLET_LOAD_SURFACE_FOR_MY_APPLET(clmagePath)
- #define CD_APPLET_LOAD_SURFACE_FOR_MY_APPLET_WITH_DEFAULT(cUserImageName, cDefaultLocalImageName)
- #define CD APPLET_SET_SURFACE_ON_MY_ICON(pSurface)

- #define CD_APPLET_SET_SURFACE_ON_MY_ICON_WITH_ZOOM(pSurface, fScale)
- #define CD_APPLET_SET_SURFACE_ON_MY_ICON_WITH_ALPHA(pSurface, fAlpha)
- #define CD APPLET SET SURFACE ON MY ICON WITH BAR(pSurface, fValue)
- #define CD APPLET SET IMAGE ON MY ICON(clconName)
- #define CD_APPLET_SET_USER_IMAGE_ON_MY_ICON(clconName, cDefault-LocalImageName)
- #define CD APPLET SET DEFAULT IMAGE ON MY ICON IF NONE
- #define CD_APPLET_SET_NAME_FOR_MY_ICON(clconName)
- #define CD_APPLET_SET_NAME_FOR_MY_ICON_PRINTF(clconNameFormat,...)
- #define CD APPLET SET QUICK INFO ON MY ICON(cQuickInfo)
- #define CD APPLET SET QUICK INFO ON MY ICON PRINTF(cQuickInfoFormat,...)
- #define CD_APPLET_SET_HOURS_MINUTES_AS_QUICK_INFO(iTimeInSeconds)
- #define CD_APPLET_SET_MINUTES_SECONDES_AS_QUICK_INFO(iTimeInSeconds)
- #define CD_APPLET_SET_SIZE_AS_QUICK_INFO(iSizeInBytes)
- #define CD_APPLET_SET_STATIC_ICON
- #define CD APPLET 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_OR_RETURN(...)
- #define CD_APPLET_FINISH_DRAWING_MY_ICON
- #define CD_APPLET_ADD_OVERLAY(clmageFile, iPosition)
- #define CD_APPLET_REMOVE_OVERLAY(iPosition)
- #define CD_APPLET_MAKE_EMBLEM(cImageFile)
- #define CD_APPLET_DRAW_EMBLEM_ON_MY_ICON(pEmblem)
- #define CD APPLET ADD DATA RENDERER ON MY ICON(pAttr)
- #define CD_APPLET_RELOAD_MY_DATA_RENDERER(pAttr)
- #define CD_APPLET_RENDER_NEW_DATA_ON_MY_ICON(pValues)
- #define CD_APPLET_REMOVE_MY_DATA_RENDERER
- #define CD_APPLET_REFRESH_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 *pIcon, CairoContainer *pContainer)
- void cairo_dock_draw_bar_on_icon (cairo_t *plconContext, double fValue, lcon *plcon)
- void cairo_dock_set_icon_surface_with_reflect (cairo_t *plconContext, cairo_surface_t *pSurface, lcon *plcon, CairoContainer *pContainer)
- gboolean cairo_dock_set_image_on_icon (cairo_t *plconContext, const gchar *clconName, lcon *plcon, CairoContainer *pContainer)
- void cairo_dock_set_image_on_icon_with_default (cairo_t *plconContext, const gchar *clmage, lcon *plcon, CairoContainer *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 Define Documentation

5.3.2.1 #define cairo_dock_set_icon_surface(plconContext, pSurface)

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

Parameters

plconCon- text	the drawing context; is not altered by the function.
pSurface	the surface to apply.

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

cGroup-	name of the group in the conf file.
Name	
cKeyName	name of the key in the conf file.
bDefault-	default value if the group/key is not found (typically if the key is new).
Value	

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

cGroup- Name	name of the group in the conf file.
cKeyName	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

cGroup-	name of the group in the conf file.
Name	
cKeyName	name of the key in the conf file.
iDefault-	default value if the group/key is not found (typically if the key is new).
Value	

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

cGroup- Name	name of the group in the conf file.
cKeyName	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

cGroup-	name of the group in the conf file.
Name	
cKeyName	name of the key in the conf file.
fDefault-	default value if the group/key is not found (typically if the key is new).
Value	

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.

cGroup-	name of the group in the conf file.
Name	
cKeyName	name of the key in the conf file.

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

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

5.3.2.9 #define CD_CONFIG_GET_STRING_WITH_DEFAULT(cGroupName, cKeyName, cDefaultValue)

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

Parameters

cGroup- Name	name of the group in the conf file.
cKeyName	name of the key in the conf file.
cDefault-	default value if the group/key is not found (typically if the key is new). can be
Value	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.

cGrou	p- name of the group in the conf file.
Nam	е
cKeyNam	name of the key in the conf file.

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

cGroup-	name of the group in the conf file.
Name	
cKeyName	name of the key in the conf file.
cDefaultFile-	defaul tfile if none is specified in the conf file.
Name	

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

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

Returns

a table of strings, to be freeed 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.

cGroup-	name of the group in the conf file.
Name	

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

a table of strings, to be freeed 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

cGroup-	name of the group in the conf file.
Name	
cKeyName	name of the key in the conf file.
pColorBuffer	a table of 4 'double' already allocated, that will be filled with the color com-
	ponents.
pDefault-	default value if the group/key is not found (typically if the key is new). It is a
Color	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

cGroup-	name of the group in the conf file.
Name	
cKeyName	name of the key in the conf file.
pColorBuffer	a table of 4 'double' already allocated, that will be filled with the color com-
	ponents.

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.

cGroup-	name of the group in the conf file.
Name	
cKeyName	name of the key in the conf file.
pColorBuffer	a table of 3 'double' already allocated, that will be filled with the color com-
	ponents.

pDefault-	default value if the group/key is not found (typically if the key is new). It is a	
Color	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

cGroup-	name of the group in the conf file.
Name	
cKeyName	name of the key in the conf file.
pColorBuffer	a table of 3 'double' already allocated, that will be filled with the color com-
	ponents.

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

	() ()
cGroup-	name of the group (in the conf file).
Name	
cKeyName	name of the key (in the conf file).
	name of the folder containing the local, user, and distant themes.
cThemeDirNa	
cDefaultThe-	default value, if the key/group/theme doesn't exist.
meName	

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.

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

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

cGroup-	name of the group.
Name	
cNewGroup-	new name of the group.
Name	

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

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

Returns

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

5.3.2.22 #define CD_APPLET_ADD_SUB_MENU(cLabel, pMenu)

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

Parameters

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

Returns

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

 $5.3.2.23 \quad \hbox{\#define CD_APPLET_CREATE_MY_SUB_MENU} (\ \ ... \ \)$

Create and add the default sub-menu of an applet to the main menu. This sub-menu is named according to the name of the applet, and is represented by the default icon of the applet.

Returns

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

5.3.2.24 #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

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

5.3.2.25 #define CD_APPLET_ADD_IN_MENU_WITH_DATA(cLabel, pCallBack, pMenu, pData)

Create and add an entry to a menu.

Parameters

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

5.3.2.26 #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

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

5.3.2.27 #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.

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

5.3.2.28 #define CD_APPLET_ADD_SEPARATOR_IN_MENU(pMenu)

Create and add a separator to a menu.

5.3.2.29 #define CD_APPLET_ADD_ABOUT_IN_MENU(pMenu)

Create and add an entry to a menu for the 'about' function.

Parameters

pMenu menu to add the entry to.

5.3.2.30 #define CD_APPLET_POPUP_MENU_ON_MY_ICON(pMenu)

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

Parameters

pMenu menu to show	
----------------------	--

5.3.2.31 #define CD_APPLET_RELOAD_CONFIG_PANEL

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

5.3.2.32 #define CD_APPLET_RELOAD_CONFIG_PANEL_WITH_PAGE(iNumPage)

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

5.3.2.33 #define CD_APPLET_MY_CONF_FILE

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

5.3.2.34 #define CD_APPLET_MY_KEY_FILE

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

5.3.2.35 #define CD_APPLET_MY_CONFIG_CHANGED

TRUE if the conf file has changed before the reload.

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5.3.2.36 #define CD_APPLET_MY_CONTAINER_TYPE_CHANGED

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

5.3.2.37 #define CD_APPLET_MY_OLD_CONTAINER

The previous Container.

5.3.2.38 #define CD_APPLET_CLICKED_ICON

The clicked Icon.

5.3.2.39 #define CD_APPLET_CLICKED_CONTAINER

The clicked Container.

5.3.2.40 #define CD_APPLET_SHIFT_CLICK

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

5.3.2.41 #define CD_APPLET_CTRL_CLICK

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

5.3.2.42 #define CD_APPLET_ALT_CLICK

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

5.3.2.43 #define CD_APPLET_MY_MENU

Main menu of the applet.

5.3.2.44 #define CD_APPLET_RECEIVED_DATA

Data received after a drop occured (string).

5.3.2.45 #define CD_APPLET_SCROLL_UP

TRUE if the user scrolled up.

5.3.2.46 #define CD_APPLET_SCROLL_DOWN

TRUE if the user scrolled down.

5.3.2.47 #define CD_APPLET_REDRAW_MY_ICON

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

5.3.2.48 #define CAIRO_DOCK_REDRAW_MY_CONTAINER

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

5.3.2.49 #define CD_APPLET_UPDATE_REFLECT_ON_MY_ICON

Reload the reflect of the applet's icon (do nothing in OpenGL mode).

5.3.2.50 #define CD_APPLET_LOAD_SURFACE_FOR_MY_APPLET(clmagePath)

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

Parameters

clmagePath	path or name of an image.

Returns

the newly allocated surface.

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

cUserImage-	name or path of an user image.
Name	
cDefaultLo-	default image
callmage-	
Name	

Returns

the newly allocated surface.

5.3.2.52 #define CD_APPLET_SET_SURFACE_ON_MY_ICON(pSurface)

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

Parameters

pSurface	the surface to draw on your icon.

5.3.2.53 #define CD_APPLET_SET_SURFACE_ON_MY_ICON_WITH_ZOOM(pSurface, fScale)

Apply a surface on the applet's icon, with a zoom factor and centered, and redraw it.

Parameters

pSurface	the surface to draw on your icon.
fScale	zoom factor (at 1 the surface will fill all the icon).

5.3.2.54 #define CD_APPLET_SET_SURFACE_ON_MY_ICON_WITH_ALPHA(pSurface, fAlpha)

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

Parameters

pSurface	the surface to draw on your icon.
fAlpha	transparency (in [0,1]).

5.3.2.55 #define CD_APPLET_SET_SURFACE_ON_MY_ICON_WITH_BAR(pSurface, fValue)

Apply a surface on the applet's icon with add a bar at the bottom, and redraw it. The bar is drawn at the bottom of the icon with a gradation from red to green and a given length.

Parameters

pSurface	the surface to draw on your icon.
fValue	the value representing a percentage, in [-1,1]. If negative, the gradation is
	inverted, and the absolute value is used.

5.3.2.56 #define CD_APPLET_SET_IMAGE_ON_MY_ICON(clconName)

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.

clconName	name of an icon or path to an image.

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

Parameters

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

5.3.2.58 #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.

5.3.2.59 #define CD_APPLET_SET_NAME_FOR_MY_ICON(clconName)

Set a new label on the applet's icon.

Parameters

clconName	the label.

5.3.2.60 #define CD_APPLET_SET_NAME_FOR_MY_ICON_PRINTF(clconNameFormat, ...)

Set a new label on the applet's icon.

Parameters

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

5.3.2.61 #define CD_APPLET_SET_QUICK_INFO_ON_MY_ICON(cQuickInfo)

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

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

5.3.2.62 #define CD_APPLET_SET_QUICK_INFO_ON_MY_ICON_PRINTF(cQuickInfoFormat, ...)

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

Parameters

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

5.3.2.63 #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

iTimeInSec-	the time in seconds.
onds	

5.3.2.64 #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

iTimeInSec-	the time in seconds.	Ì
onds		

5.3.2.65 #define CD_APPLET_SET_SIZE_AS_QUICK_INFO(iSizeInBytes)

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

Parameters

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

5.3.2.66 #define CD_APPLET_SET_STATIC_ICON

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

5.3.2.67 #define CD_APPLET_SET_ALWAYS_VISIBLE_ICON(bAlwaysVisible)

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

5.3.2.68 #define CD_APPLET_ANIMATE_MY_ICON(cAnimationName, iAnimationLength)

Launch an animation on the applet's icon.

Parameters

cAnimation-	name of the animation.
Name	
iAnimation-	number of rounds the animation should be played.
Length	

5.3.2.69 #define CD_APPLET_STOP_ANIMATING_MY_ICON

Stop any animation on the applet's icon.

5.3.2.70 #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

	cAnimation-	name of the animation.
	Name	
Ī	iAnimation-	number of rounds the animation should be played, or 0 for an endless ani-
	Length	mation.

5.3.2.71 #define CD_APPLET_STOP_DEMANDING_ATTENTION

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

5.3.2.72 #define CD_APPLET_GET_MY_ICON_EXTENT(iWidthPtr, iHeightPtr)

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

Parameters

iWidthl	pointer to the width.	
iHeightl	pointer to the height.	

5.3.2.73 #define CD_APPLET_START_DRAWING_MY_ICON

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

5.3.2.74 #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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5.3.2.75 #define CD_APPLET_FINISH_DRAWING_MY_ICON

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

5.3.2.76 #define CD_APPLET_ADD_OVERLAY(clmageFile, iPosition)

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

Parameters

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

Returns

TRUE if the overlay has been successfuly added.

5.3.2.77 #define CD_APPLET_REMOVE_OVERLAY(iPosition)

Remove an overlay the applet's icon, given its position (there is only one overlay at a given position).

Parameters

iPosition position of the overlay	
-----------------------------------	--

5.3.2.78 #define CD_APPLET_MAKE_EMBLEM(clmageFile)

Make an emblem from an image. If the image is given by its sole name, it is looked up inside the root theme folder. Free it with cairo_dock_free_emblem.

Parameters

clmageFile	name of an image file.

Returns

a newly allocated CairoEmblem.

5.3.2.79 #define CD_APPLET_DRAW_EMBLEM_ON_MY_ICON(pEmblem)

Draw an emblem on the applet's icon. The emblem is drawn directly on the icon, and is erased if the icon is redrawn.

Parameters

pEmblem	an emblem.

5.3.2.80 #define CD_APPLET_ADD_DATA_RENDERER_ON_MY_ICON(pAttr)

Add a Data Renderer the applet's icon.

Parameters

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

5.3.2.81 #define CD_APPLET_RELOAD_MY_DATA_RENDERER(pAttr)

Reload the Data Renderer of the applet's icon. Pass NULL as the attributes to simply reload the current data renderer without changing any of its parameters. Previous values are kept.

Parameters

pAttr	the attributes of the Data Renderer, or NULL to simply reload the Data Ren-
	derer as it it.

5.3.2.82 #define CD_APPLET_RENDER_NEW_DATA_ON_MY_ICON(pValues)

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

Parameters

pValues	the values, a table of double of the correct size.	
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5.3.2.83 #define CD_APPLET_REMOVE_MY_DATA_RENDERER

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

5.3.2.84 #define CD_APPLET_REFRESH_MY_DATA_RENDERER

Refresh the Data Renderer of the applet's icon, to redraw it when the applet's size has changed.

5.3.2.85 #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.

5.3.2.86 #define CD_APPLET_MY_CONTAINER_IS_OPENGL

Say if the applet's container currently supports OpenGL.

5.3.2.87 #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

cRender-	name of the renderer.
erName	
pConfig	configuration data for the renderer, or NULL.

5.3.2.88 #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

cRender-	name of the renderer.
erName	

5.3.2.89 #define CD_APPLET_SET_STATIC_DESKLET

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

5.3.2.90 #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.

5.3.2.91 #define CD_APPLET_DELETE_MY_ICONS_LIST

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

5.3.2.92 #define CD_APPLET_REMOVE_ICON_FROM_MY_ICONS_LIST(plcon)

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

Parameters

plcon	the icon to remove.
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Returns

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

5.3.2.93 #define CD_APPLET_DETACH_ICON_FROM_MY_ICONS_LIST(plcon)

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

Parameters

plcon	the icon to remove.

Returns

whether the icon has been removed or not.

5.3.2.94 #define CD_APPLET_LOAD_MY_ICONS_LIST(plconList, 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.

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

5.3.2.95 #define CD_APPLET_ADD_ICON_IN_MY_ICONS_LIST(plcon)

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

Parameters

plcon	an icon.

5.3.2.96 #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.

5.3.2.97 #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.

5.3.2.98 #define CD_APPLET_MANAGE_APPLICATION(cApplicationClass)

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

Parameters

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

5.3.2.99 #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 * plconContext, cairo_surface_t * pSurface, double fScale, double fAlpha, Icon * plcon, CairoContainer * pContainer)

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

Parameters

plconCon-	the drawing context; is not altered by the function.
text	
pSurface	the surface to apply.
fScale	zoom fastor.
fAlpha	transparency in [0,1].
plcon	the icon.
pContainer	the container of the icon.

5.3.4.2 void cairo_dock_draw_bar_on_icon (cairo_t * plconContext, double fValue, Icon * plcon)

Draw a bar at the bottom of an Icon, with a gradation from red to green and a given length.

Parameters

plcor	nCon-	the drawing context; is not altered by the function.
	text	
f	fValue	the value representing a percentage, in [-1,1]. if negative, the gradation is
		inverted, and the absolute value is used.
	plcon	the icon.

5.3.4.3 void cairo_dock_set_icon_surface_with_reflect (cairo_t * plconContext, cairo_surface_t * pSurface, Icon * plcon, CairoContainer * pContainer)

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

plconCon- text	the drawing context; is not altered by the function.
pSurface	the surface to apply.
plcon	the icon.
pContainer	the container of the icon.

5.3.4.4 gboolean cairo_dock_set_image_on_icon (cairo_t * plconContext, const gchar * clconName, lcon * plcon, CairoContainer * pContainer)

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

Parameters

plconCon-	the drawing context; is not altered by the function.
text	
clmagePath	name or path to an icon image.
plcon	the icon.
pContainer	the container of the icon.

Returns

TRUE if everything went smoothly.

5.3.4.5 void cairo_dock_set_image_on_icon_with_default (cairo_t * plconContext, const gchar * clmage, lcon * plcon, CairoContainer * 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

plconCon-	the drawing context; is not altered by the function.
text	
clmage	name of an image to apply on the icon.
plcon	the icon.
pContainer	the container of the icon.
cDefaultIm-	path to a default image.
agePath	

5.3.4.6 gchar* cairo_dock_get_human_readable_size (long long int iSizeInBytes)

Convert a size in bytes into a readable format.

Parameters

iSizeInBytes	size in bytes.

Returns

a newly allocated string.

5.3.4.7 void cairo_dock_play_sound (const gchar * cSoundPath)

Play a sound, through Alsa or PulseAudio.

Parameters

cSoundPath path to an audio file.

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

Defines

#define _cairo_dock_appli_is_on_our_way(icon, pDock)
 void cairo_dock_reset_applications_manager (void);

Functions

- void cairo_dock_start_applications_manager (CairoDock *pDock)
- Icon * cairo_dock_search_window_covering_dock (CairoDock *pDock, gboolean bMaximizedWindow, gboolean bFullScreenWindow)
- Icon * cairo dock search window overlapping dock (CairoDock *pDock)
- GList * cairo_dock_get_current_applis_list (void)
- Window cairo_dock_get_current_active_window (void)
- lcon * cairo_dock_get_current_active_icon (void)
- Icon * cairo_dock_get_icon_with_Xid (Window Xid)
- void <a iro_dock_foreach_applis (CairoDockForeachIconFunc pFunction, gboolean bOutsideDockOnly, gpointer pUserData)
- void cairo_dock_foreach_applis_on_viewport (CairoDockForeachIconFunc pFunction, int iNumDesktop, int iNumViewportX, int iNumViewportY, gpointer pUser-Data)

5.4.1 Detailed Description

This class manages the list of known windows, ie the Taskbar. It also provides convenient functions to act on all the applis icons at once.

5.4.2 Function Documentation

5.4.2.1 void cairo_dock_start_applications_manager (CairoDock * pDock)

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

Parameters

pDock the main dock

5.4.2.2 Icon* cairo_dock_search_window_covering_dock (CairoDock * pDock, gboolean bMaximizedWindow, gboolean bFullScreenWindow)

Get the icon of an application whose window covers entirely a dock, or NULL if none. If both parameters are FALSE, check for all windows.

Parameters

pDock	the dock to test.
bMaximized-	check for maximized windows only.
Window	
bFullScreen-	check for full screen windows only.
Window	

Returns

the icon representing the window, or NULL if none has been found.

5.4.2.3 Icon* cairo_dock_search_window_overlapping_dock (CairoDock * pDock)

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

Parameters

pDock	the dock to test.

Returns

the icon of the window, or NULL if none has been found.

5.4.2.4 GList* cairo_dock_get_current_applis_list (void)

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

Returns

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

5.4.2.5 Window cairo_dock_get_current_active_window (void)

Get the currently active window ID.

Returns

the X id.

5.4.2.6 Icon* cairo_dock_get_current_active_icon (void)

Get the icon of the currently active window.

Returns

the icon (maybe not inside a dock).

5.4.2.7 Icon* cairo_dock_get_icon_with_Xid (Window Xid)

Get the icon of a given window. The search is fast.

Parameters

Xid the id of the X window.	
-----------------------------	--

Returns

the icon (maybe not inside a dock).

5.4.2.8 void cairo_dock_foreach_applis (CairoDockForeachlconFunc *pFunction*, gboolean *bOutsideDockOnly*, gpointer *pUserData*)

Run a function on all appli's icons.

Parameters

pFunction	a /ref CairoDockForeachlconFunc function to be called
bOutside-	TRUE if you only want to go through icons that are not inside a dock, FALSE
DockOnly	to go through all icons.
pUserData	a data passed to the function.

5.4.2.9 void cairo_dock_foreach_applis_on_viewport (CairoDockForeachlconFunc *pFunction*, int *iNumDesktop*, int *iNumViewportX*, int *iNumViewportY*, gpointer *pUserData*)

Run a function on all appli's icons present on a given workspace.

pFunction	a /ref CairoDockForeachlconFunc function to be called
iNumDesk-	number of the desktop
top	
iNumView-	number of the horizontal viewport
portX	
iNumView-	number of the vertical viewport
portY	
pUserData	a data passed to the function.

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

Data Structures

struct _CairoDockClassAppli

Definition of a Class of application.

Defines

• #define cairo_dock_register_class(cDesktopFile)

Functions

void cairo_dock_set_data_from_class (const gchar *cClass, lcon *plcon)

5.5.1 Detailed Description

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

5.5.2 Define Documentation

5.5.2.1 #define cairo_dock_register_class(cDesktopFile)

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

Parameters

cDesktop-	the desktop file path or name; if it's a name or if the path couldn't be found,
File	it will be searched in the common directories.

Returns

the class ID in a newly allocated string.

5.5.3 Function Documentation

 $5.5.3.1 \quad \text{void cairo_dock_set_data_from_class (const gchar} * \textit{cClass, Icon} * \textit{plcon} \)$

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

cClass	the class name

plcon the icon

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

Functions

void cd_init_compiz_backend (void)

#define OLD_WIDGET_LAYER 1 // seems better to rely on the _COMPIZ_WIDGET atom than on a rule.

5.6.1 Detailed Description

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

5.7 cairo-dock-config.h File Reference

Defines

• #define cairo_dock_get_pango_weight_from_1_9(iWeight)

Functions

- void cairo_dock_load_config (const gchar *cConfFilePath)
- gboolean cairo_dock_is_loading (void)
- void cairo_dock_update_conf_file (const gchar *cConfFilePath, GType iFirstDataType,...)
- void cairo_dock_get_version_from_string (const gchar *cVersionString, int *iMajorVersion, int *iMinorVersion, int *iMinorVersion)
- void cairo_dock_decrypt_string (const gchar *cEncryptedString, gchar **cDecryptedString)
- void cairo_dock_encrypt_string (const gchar *cDecryptedString, gchar **cEncryptedString)
- · void cairo_dock_load_current_theme (void)

5.7.1 Detailed Description

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

5.7.2 Define Documentation

5.7.2.1 #define cairo_dock_get_pango_weight_from_1_9(iWeight)

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

Parameters

iWeight	weight between 0 and 9.

5.7.3 Function Documentation

5.7.3.1 void cairo_dock_load_config (const gchar * cConfFilePath)

Load the Cairo-Dock's config and everything.

Parameters

cConf-	path to the main conf file.
FilePath	

5.7.3.2 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).

5.7.3.3 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

cConf-	path to the conf file.
FilePath	
iFirst-	type of the first value.
DataType	

5.7.3.4 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

cVersion-	the string of the form "x.y.z".
String	
iMajorVer-	pointer to the major version.
sion	
iMinorVer-	pointer to the minor version.
sion	
iMicroVer-	pointer to the micro version.
sion	

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

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

Parameters

	the encrypted string.
String	
cDecrypted-	the decrypted string.
String	

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

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

Parameters

cDecrypted- String	the decrypted string.
cEncrypted- String	the encrypted string.

5.7.3.7 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.

5.8 cairo-dock-container.h File Reference

Data Structures

• struct CairoContainer

88 File Documentation

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

Defines

- #define CAIRO_CONTAINER(p)
 - Get the Container part of a pointer.
- #define cairo_dock_init_container(pContainer)
- #define cairo dock init container no opengl(pContainer)
- #define cairo_dock_get_max_scale(pContainer)
- #define cairo_dock_popup_menu_on_container(menu, pContainer)

Enumerations

```
    enum CairoContainerNotifications {
        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_DEFAULT_CONTAINER,
        NOTIFICATION_UPDATE_DEFAULT_CONTAINER_SLOW,
        NOTIFICATION_RENDER_DEFAULT_CONTAINER]
        signals
```

- enum CairoDockTypeHorizontality
 - Main orientation of a container.
- enum CairoDockTypeContainer

Types of available containers.

Functions

- void cairo_dock_finish_container (CairoContainer *pContainer)
- void cairo_dock_redraw_container (CairoContainer *pContainer)
- void cairo_dock_redraw_container_area (CairoContainer *pContainer, GdkRect-angle *pArea)
- void cairo dock redraw icon (Icon *icon, CairoContainer *pContainer)

- CairoContainer * cairo dock search container from icon (Icon *icon)
- void cairo_dock_allow_widget_to_receive_data (GtkWidget *pWidget, GCallback pCallBack, gpointer data)
- gboolean cairo dock string is adress (const gchar *cString)
- void cairo_dock_notify_drop_data (gchar *cReceivedData, lcon *pPointedlcon, double fOrder, CairoContainer *pContainer)
- void cairo_dock_popup_menu_on_icon (GtkWidget *menu, Icon *plcon, Cairo-Container *pContainer)
- GtkWidget * cairo_dock_add_in_menu_with_stock_and_data (const gchar *cLabel, const gchar *gtkStock, GFunc pFunction, GtkWidget *pMenu, gpointer pData)
- GtkWidget * cairo_dock_create_sub_menu (const gchar *cLabel, GtkWidget *pMenu, const gchar *cImage)
- GtkWidget * cairo_dock_build_menu (Icon *icon, CairoContainer *pContainer)

5.8.1 Detailed Description

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

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

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

If you write a new type of container, you must call cairo_dock_init_container when you create it and cairo_dock_finish_container when you destroy it.

5.8.2 Define Documentation

5.8.2.1 #define cairo_dock_init_container(pContainer)

Initialize a Container : create a GTK window with transparency and OpenGL support. To be called when you create a new container.

Returns

the newly allocated GTK window.

5.8.2.2 #define cairo_dock_init_container_no_opengl(pContainer)

Same as above, but with no OpenGL support.

5.8.2.3 #define cairo_dock_get_max_scale(pContainer)

Get the maximum zoom of the icons inside a given container.

Parameters

0 1	
<i>pContainer</i> the container.	

Returns

the maximum scale factor.

5.8.2.4 #define cairo_dock_popup_menu_on_container(menu, pContainer)

Pop-up a menu on a container. In the case of a dock, it prevents this one from shrinking down.

Parameters

menu	the menu.
pContainer the container that was clicked.	

5.8.3 Enumeration Type Documentation

5.8.3.1 enum CairoContainerNotifications

signals

Enumerator:

- **NOTIFICATION_BUILD_CONTAINER_MENU** notification called when the menu is being built on a container. data: {Icon, CairoContainer, GtkMenu, gboolean*}
- **NOTIFICATION_BUILD_ICON_MENU** notification called when the menu is being built on an icon (possibly NULL). data : {Icon, CairoContainer, 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*, lcon, 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_DEFAULT_CONTAINER** notification called for the fast rendering loop on a default container.
- **NOTIFICATION_UPDATE_DEFAULT_CONTAINER_SLOW** notification called for the slow rendering loop on a default container.
- **NOTIFICATION_RENDER_DEFAULT_CONTAINER** notification called when a default container is rendered.

5.8.4 Function Documentation

5.8.4.1 void cairo_dock_finish_container (CairoContainer * pContainer)

Finish a Container. To be called before you free it.

Parameters

pContainer	a Container.		

5.8.4.2 void cairo_dock_redraw_container (CairoContainer * pContainer)

Clear and trigger the redraw of a Container.

Parameters

pContainer	the Container to redraw.

5.8.4.3 void cairo_dock_redraw_container_area (CairoContainer * pContainer, GdkRectangle * pArea)

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

Parameters

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

5.8.4.4 void cairo_dock_redraw_icon (Icon * icon, CairoContainer * pContainer)

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

icon	l'icone a retracer.
pContainer	le container de l'icone.

5.8.4.5 CairoContainer* cairo_dock_search_container_from_icon (Icon * icon)

Search for the Container of a given Icon (dock or desklet in the case of an applet).

Parameters

icon	the icon.

Returns

the container contening this icon, or NULL if the icon is nowhere.

5.8.4.6 void cairo_dock_allow_widget_to_receive_data (GtkWidget * pWidget, GCallback pCallBack, gpointer data)

Let a widget accepts drag-and-drops.

Parameters

pWidg	at a widget.
pCallBad	the function that will be called when some data is received.
da	data passed to the callback.

5.8.4.7 gboolean cairo_dock_string_is_adress (const gchar * cString)

Say if a string is an adress (file://xxx, http://xxx, ftp://xxx, etc).

Parameters

cString	a string.

Returns

TRUE if it's an address.

5.8.4.8 void cairo_dock_notify_drop_data (gchar * cReceivedData, Icon * pPointedIcon, double fOrder, CairoContainer * pContainer)

Notify everybody that a drop has just occured.

cReceived- Data	the dropped data.
pPointedI-	the icon which was pointed when the drop occured.
con	
fOrder	the order of the icon if the drop occured on it, or LAST_ORDER if the drop
	occured between 2 icons.
pContainer	the container of the icon

5.8.4.9 void cairo_dock_popup_menu_on_icon (GtkWidget * menu, Icon * plcon, CairoContainer * pContainer)

Pop-up a menu on an icon. The menu is placed so that it touches the icon, without overlapping it. If the icon is NULL, it will be placed it at the mouse's position. In the case of a dock, it prevents this one from shrinking down.

Parameters

menu	the menu.
plcon	the icon, or NULL.
pContainer	the container that was clicked.

5.8.4.10 GtkWidget* cairo_dock_add_in_menu_with_stock_and_data (const gchar * cLabel, const gchar * gtkStock, GFunc pFunction, GtkWidget * pMenu, gpointer pData)

Add an entry to a given menu.

Parameters

cLabel	label of the entry
gtkStock	a GTK stock or a path to an image
pFunction	callback
pMenu	the menu to insert the entry in
pData	data to feed the callback with

Returns

the new menu-entry that has been added.

5.8.4.11 GtkWidget* cairo_dock_create_sub_menu (const gchar * cLabel, GtkWidget * pMenu, const gchar * cImage)

Add sub-menu to a given menu.

Parameters

cLabel	label of the sub-menu
pMenu	the menu to insert the entry in
clmage	a GTK stock or a path to an image

Returns

the new sub-menu that has been added.

5.8.4.12 GtkWidget* cairo_dock_build_menu (Icon * icon, CairoContainer * pContainer)

Build the main menu of a Container.

Parameters

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

Returns

the menu.

5.9 cairo-dock-core.h File Reference

5.9.1 Detailed Description

This class instanciates the different core managers.

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

Functions

• CairoDockGLFont * cairo_dock_get_default_data_renderer_font (void)

5.10.1 Detailed Description

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

5.10.2 Function Documentation

5.10.2.1 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

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

Data Structures

struct _CairoDataRendererAttribute

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

• struct CairoDataRendererInterface

Interface of a DataRenderer.

struct _CairoDataRenderer

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

Defines

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

Typedefs

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

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

Functions

- CairoDockGLFont * cairo dock get default data renderer font (void)
- void cairo_dock_add_new_data_renderer_on_icon (Icon *pIcon, CairoContainer *pContainer, CairoDataRendererAttribute *pAttribute)
- void cairo_dock_render_new_data_on_icon (Icon *pIcon, CairoContainer *pContainer, cairo_t *pCairoContext, double *pNewValues)
- void cairo dock remove data renderer on icon (Icon *plcon)
- void cairo_dock_reload_data_renderer_on_icon (Icon *plcon, CairoContainer *pContainer, CairoDataRendererAttribute *pAttribute)
- void cairo_dock_resize_data_renderer_history (Icon *plcon, int iNewMemorySize)
- void cairo_dock_refresh_data_renderer (Icon *pIcon, CairoContainer *pContainer, cairo_t *pCairoContext)

5.11.1 Detailed Description

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This class defines the Data Renderer structure and API. A CairoDataRenderer is a generic way to render onto an icon a set of N values defined by : $\{yk = f(t)\}, k=0..N$. For instance you could represent the (cpu, mem, swap) evolution over the time. You bind a Data Renderer with /ref cairo_dock_add_new_data_renderer_on_icon. You can specify some configuration parameters for the Data Renderer with a set of attributes, that derive from a CairoDataRendererAttribute. You feed the Data Renderer with /ref cairo_dock_render_new_data_on_icon, providing it the correct number of values. If you want to change any parameter of a Data Renderer, use /ref cairo_dock_reload_data_renderer_on_icon, which keeps the history. To remove the Data Renderer from an icon, use /ref cairo_dock_remove_data_renderer_on_icon.

5.11.2 Define Documentation

5.11.2.1 #define cairo_dock_get_icon_data_renderer(plcon)

Structure Access

5.11.2.2 #define CAIRO_DATA_RENDERER(r)

Get the elementary part of a Data Renderer

Parameters

r a high level data renderer

Returns

a CairoDataRenderer*

5.11.2.3 #define cairo_data_renderer_get_data(pRenderer)

Get the data of a Data Renderer

Parameters

pRenderer a data renderer

Returns

a CairoDataToRenderer*

5.11.2.4 #define CAIRO_DATA_RENDERER_ATTRIBUTE(pAttr)

Get the elementary part of a Data Renderer Attribute

Parameters

A	
pAttr	a high level data renderer attribute

Returns

a CairoDataRendererAttribute*

5.11.2.5 #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

pRenderer a data renderer

Returns

number of values a DataRenderer displays

5.11.2.6 #define cairo_data_renderer_get_min_value(pRenderer, i)

Data AccessGet the lower range of the i-th value.

Parameters

pRenderer	a data renderer
i	the number of the value

Returns

a double

5.11.2.7 #define cairo_data_renderer_get_max_value(pRenderer, i)

Get the upper range of the i-th value.

Parameters

pRenderer	a data renderer
i	the number of the value

Returns

a double

5.11.2.8 #define cairo_data_renderer_get_value(pRenderer, i, t)

Get the i-th value at the time t.

Parameters

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

Returns

a double

5.11.2.9 #define cairo_data_renderer_get_current_value(pRenderer, i)

Get the current i-th value.

Parameters

pRenderer	a data renderer
i	the number of the value

Returns

a double

5.11.2.10 #define cairo_data_renderer_get_previous_value(pRenderer, i)

Get the previous i-th value.

Parameters

pRenderer	a data renderer
i	the number of the value

Returns

a double

5.11.2.11 #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

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

Returns

a double in [0,1]

5.11.2.12 #define cairo_data_renderer_get_normalized_current_value(pRenderer, i)

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

Parameters

pRenderer	a data renderer
i	the number of the value

Returns

a double in [0,1]

5.11.2.13 #define cairo_data_renderer_get_normalized_previous_value(pRenderer, i)

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

Parameters

pRenderer	a data renderer
i	the number of the value

Returns

a double in [0,1]

5.11.2.14 #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

pRenderer	a data renderer
i	the number of the value

Returns

a double in [0,1]

5.11.2.15 #define cairo_data_renderer_format_value_full(pRenderer, i, cBuffer)

Data FormatWrite a value in a readable text format.

Parameters

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

Generated on Tue Sep 27 2011 22:18:56 for Cairo-Dock by Doxygen

5.11.2.16 #define cairo_data_renderer_format_value(pRenderer, i)

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

Parameters

р	Renderer	a data renderer
	i	the number of the value

5.11.3 Function Documentation

5.11.3.1 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

5.11.3.2 void cairo_dock_add_new_data_renderer_on_icon (Icon * plcon, CairoContainer * pContainer, CairoDataRendererAttribute * pAttribute)

Add a Data Renderer on an icon (usually the icon of an applet). A Data Renderer is a view that will be used to display a set of values on the icon.

Parameters

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

5.11.3.3 void cairo_dock_render_new_data_on_icon (Icon * plcon, CairoContainer * pContainer, cairo_t * pCairoContext, double * pNewValues)

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

plcon	the icon
pContainer	the icon's container
pCairoCon-	a drawing context on the icon
text	
pNewValues	a set a new values (must be of the size defined on the creation of the Ren-
	derer)

5.11.3.4 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

plcon	the icon

5.11.3.5 void cairo_dock_reload_data_renderer_on_icon (Icon * plcon, CairoContainer * pContainer, CairoDataRendererAttribute * pAttribute)

Reload the Data Renderer of an icon. If no attributes are provided, it simply reload it with its current attributes. History is kept.

Parameters

plcon	the icon
pContainer	the icon's container
pAttribute	new attributes defining the Renderer, or NULL to keep the current ones

5.11.3.6 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

plcon	the icon
iNewMemo-	the new size of history
rySize	

5.11.3.7 void cairo_dock_refresh_data_renderer (Icon * plcon, CairoContainer * pContainer, cairo_t * pCairoContext)

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

Parameters

plcon	the icon
pContainer	the icon's container
pCairoCon-	a drawing context on the icon
text	

5.12 cairo-dock-dbus.h File Reference

Functions

- DBusGConnection * cairo dock get session connection (void)
- gboolean cairo_dock_register_service_name (const gchar *cServiceName)
- gboolean cairo_dock_dbus_is_enabled (void)
- DBusGProxy * cairo_dock_create_new_session_proxy (const char *name, const char *path, const char *interface)
- DBusGProxy * cairo_dock_create_new_system_proxy (const char *name, const char *path, const char *interface)
- gboolean cairo_dock_dbus_detect_application (const gchar *cName)
- gboolean cairo dock dbus detect system application (const gchar *cName)
- gboolean cairo_dock_dbus_get_boolean (DBusGProxy *pDbusProxy, const gchar *cAccessor)
- guint cairo dock dbus get uinteger (DBusGProxy *pDbusProxy, const gchar *cAccessor)
- int cairo_dock_dbus_get_integer (DBusGProxy *pDbusProxy, const gchar *cAccessor)
- gchar * cairo_dock_dbus_get_string (DBusGProxy *pDbusProxy, const gchar *cAccessor)
- gchar ** cairo_dock_dbus_get_string_list (DBusGProxy *pDbusProxy, const gchar *cAccessor)
- guchar * cairo_dock_dbus_get_uchar (DBusGProxy *pDbusProxy, const gchar *cAccessor)
- void cairo_dock_dbus_call (DBusGProxy *pDbusProxy, const gchar *cCommand)
- void cairo_dock_dbus_get_property_in_value (DBusGProxy *pDbusProxy, const gchar *cInterface, const gchar *cProperty, GValue *pProperty)
 deprecated...

5.12.1 Detailed Description

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

5.12.2 Function Documentation

5.12.2.1 DBusGConnection* cairo_dock_get_session_connection(void)

Get the connection to the 'session' Bus.

Returns

the connection to the bus.

5.12.2.2 gboolean cairo_dock_register_service_name (const gchar * cServiceName)

Register a new service on the session bus.

cService-	name of the service.
Name	

Returns

TRUE in case of success, false otherwise.

5.12.2.3 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.

5.12.2.4 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

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

Returns

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

5.12.2.5 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

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

Returns

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

5.12.2.6 gboolean cairo_dock_dbus_detect_application (const gchar * cName)

Detect if an application is currently running on Session bus.

Parameters

cNlama	name of the application.
Civallic	name of the application.

Returns

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

5.12.2.7 gboolean cairo_dock_dbus_detect_system_application (const gchar * cName)

Detect if an application is currently running on System bus.

Parameters

cName name of the application.

Returns

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

5.12.2.8 gboolean cairo_dock_dbus_get_boolean (DBusGProxy * pDbusProxy, const gchar * cAccessor)

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

Parameters

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

Returns

the value of the parameter.

5.12.2.9 guint cairo_dock_dbus_get_uinteger (DBusGProxy * pDbusProxy, const gchar * cAccessor)

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

pΙ	DbusProxy	proxy to the connection.
	cAccessor	name of the accessor.

Returns

the value of the parameter.

5.12.2.10 int cairo_dock_dbus_get_integer (DBusGProxy * pDbusProxy, const gchar * cAccessor)

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

Parameters

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

Returns

the value of the parameter.

5.12.2.11 gchar* cairo_dock_dbus_get_string (DBusGProxy * pDbusProxy, const gchar * cAccessor)

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

Parameters

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

Returns

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

5.12.2.12 gchar** cairo_dock_dbus_get_string_list (DBusGProxy * pDbusProxy, const gchar * cAccessor)

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

Parameters

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

Returns

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

5.12.2.13 guchar* cairo_dock_dbus_get_uchar (DBusGProxy * pDbusProxy, const gchar * cAccessor)

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

Parameters

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

Returns

the value of the parameter.

5.12.2.14 void cairo_dock_dbus_call (DBusGProxy * pDbusProxy, const gchar * cCommand)

Call a command on the bus.

Parameters

pDbusProxy	proxy to the connection.
cCommand	name of the commande.

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

5.13.1 Detailed Description

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

5.14 cairo-dock-desklet-factory.h File Reference

Data Structures

• struct _CairoDeskletDecoration

Decoration of a Desklet.

struct _CairoDeskletAttribute

Configuration attributes of a Desklet.

• struct _CairoDeskletRenderer

Definition of a Desklet's renderer.

struct _CairoDesklet

Definition of a Desklet, which derives from a Container.

Defines

• #define CAIRO DOCK IS DESKLET(pContainer)

- #define CAIRO_DESKLET(pContainer)
- #define cairo_dock_add_interactive_widget_to_desklet(pInteractiveWidget, pDesklet)

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 * cairo_dock_new_desklet (void)
- void cairo_dock_free_desklet (CairoDesklet *pDesklet)
- void cairo_dock_configure_desklet (CairoDesklet *pDesklet, CairoDeskletAttribute *pAttribute)
- void cairo_dock_add_interactive_widget_to_desklet_full (GtkWidget *pInteractiveWidget, CairoDesklet *pDesklet, int iRightMargin)
- void cairo dock set desklet margin (CairoDesklet *pDesklet, int iRightMargin)
- GtkWidget * cairo dock steal interactive widget from desklet (CairoDesklet *pDesklet)
- void cairo_dock_hide_desklet (CairoDesklet *pDesklet)
- void cairo_dock_show_desklet (CairoDesklet *pDesklet)
- void cairo_dock_zoom_out_desklet (CairoDesklet *pDesklet)
- void cairo_dock_set_desklet_accessibility (CairoDesklet *pDesklet, CairoDeskletVisibility iVisibility, gboolean bSaveState)
- void cairo dock set desklet sticky (CairoDesklet *pDesklet, gboolean bSticky)
- void cairo_dock_lock_desklet_position (CairoDesklet *pDesklet, gboolean bPositionLocked)

5.14.1 Detailed Description

This class defines the Desklets, that are Widgets placed directly on your desktop. A Desklet is a container that holds 1 applet's icon plus an optionnal list of other icons and an optionnal GTK widget, has a decoration, suports several accessibility types (like Compiz Widget Layer), and has a renderer. Desklets can be resized or moved directly with the mouse, and can be rotated in the 3 directions of space. To actually create or destroy a Desklet, use the Desklet Manager's functions in cairo-dock-desklet-manager.h.

5.14.2 Define Documentation

5.14.2.1 #define CAIRO_DOCK_IS_DESKLET(pContainer)

Say if a Container is a Desklet.

Parameters

pContainer	the container.

Returns

TRUE if the container is a desklet.

5.14.2.2 #define CAIRO_DESKLET(pContainer)

Cast a Container into a Desklet.

Parameters

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

Returns

the desklet.

 $5.14.2.3 \quad \text{\#define cairo_dock_add_interactive_widget_to_desklet} (\quad \textit{pInteractiveWidget}, \quad \textit{pDesklet} \)$

Add a GtkWidget to a desklet. Only 1 widget is allowed per desklet, if you need more, you can just use a GtkContainer, and place as many widget as you want inside.

Parameters

pInterac-	the widget to add.
tiveWidget	
pDesklet	the desklet.

5.14.3 Enumeration Type Documentation

5.14.3.1 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

5.14.4 Function Documentation

5.14.4.1 CairoDesklet* cairo_dock_new_desklet (void)

Create a simple desklet container. This function should NOT be used directly.

Returns

the newly allocated desklet.

5.14.4.2 void cairo_dock_free_desklet (CairoDesklet * pDesklet)

Destroy a desklet, and free all the allocated ressources. The interactive widget is removed before, and can be inserted anywhere after that. This function should NOT be used directly.

Parameters

pDesklet the desklet to destroy.

5.14.4.3 void cairo_dock_configure_desklet (CairoDesklet * pDesklet, CairoDeskletAttribute * pAttribute)

Configure a un desklet. It places it, resizes it, sets up its accessibility, locks its position, and sets up its decorations.

Parameters

pDesklet	the desklet.
pAttribute	the attributes to configure the desklet.

5.14.4.4 void cairo_dock_add_interactive_widget_to_desklet_full (GtkWidget * pInteractiveWidget, CairoDesklet * pDesklet, int iRightMargin)

Add a GtkWidget to a desklet. Only 1 widget is allowed per desklet, if you need more, you can just use a GtkContainer, and place as many widget as you want inside.

pInterac-	the widget to add.]
tiveWidget		
pDesklet	the desklet.	

iRightMargin	right margin, in pixels, useful to keep a clickable zone on the desklet, or 0 if	
	you don't want a margin.	

5.14.4.5 void cairo_dock_set_desklet_margin (CairoDesklet * pDesklet, int iRightMargin)

Sezt the right margin of a desklet. This is useful to keep a clickable zone on the desklet when you put a GTK widget inside.

Parameters

pDesklet	the desklet.
iRightMargin	right margin, in pixels.

5.14.4.6 GtkWidget* cairo_dock_steal_interactive_widget_from_desklet (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

pDesklet the desklet with an interactive widget.

Returns

the widget.

5.14.4.7 void cairo_dock_hide_desklet (CairoDesklet * pDesklet)

Hide a desklet.

Parameters

pDesklet	the desklet.

5.14.4.8 void cairo_dock_show_desklet (CairoDesklet * pDesklet)

Show a desklet, and give it the focus.

pDesklet the desklet.

5.14.4.9 void cairo_dock_zoom_out_desklet (CairoDesklet * pDesklet)

Launch a "zoom out" animation on a desklet.

Parameters

pDesklet	the desklet.

5.14.4.10 void cairo_dock_set_desklet_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

pDesklet	the desklet.
iVisibility	the new accessibility.
bSaveState	whether to save the new state in the conf file.

5.14.4.11 void cairo_dock_set_desklet_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

pDesklet	the desklet.
bSticky	whether the desklet should be sticky or not.

5.14.4.12 void cairo_dock_lock_desklet_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

pDesklet	the desklet.
bPosition-	whether the position should be locked or not.
Locked	

5.15 cairo-dock-desklet-manager.h File Reference

Typedefs

typedef gboolean(* CairoDockForeachDeskletFunc)(CairoDesklet *pDesklet, gpointer data)

Definition of a function that runs through all desklets.

Enumerations

```
    enum CairoDeskletNotifications {
        NOTIFICATION_ENTER_DESKLET,
        NOTIFICATION_LEAVE_DESKLET,
        NOTIFICATION_UPDATE_DESKLET,
        NOTIFICATION_UPDATE_DESKLET_SLOW,
        NOTIFICATION_RENDER_DESKLET,
        NOTIFICATION_STOP_DESKLET,
        NOTIFICATION_CONFIGURE_DESKLET,
        NOTIFICATION_NEW_DESKLET }
        signals
```

Functions

- CairoDesklet * cairo_dock_create_desklet (Icon *pIcon, CairoDeskletAttribute *pAttributes)
- void cairo dock destroy desklet (CairoDesklet *pDesklet)
- CairoDesklet * cairo_dock_foreach_desklet (CairoDockForeachDeskletFunc pCallback, gpointer user_data)
- void cairo_dock_foreach_icons_in_desklets (CairoDockForeachIconFunc pFunction, gpointer pUserData)
- void cairo_dock_reload_desklets_decorations (gboolean bDefaultThemeOnly)
- void cairo_dock_set_all_desklets_visible (gboolean bOnWidgetLayerToo)
- void cairo_dock_set_desklets_visibility_to_default (void)
- CairoDesklet * cairo_dock_get_desklet_by_Xid (Window Xid)
- Icon * cairo_dock_find_clicked_icon_in_desklet (CairoDesklet *pDesklet)

5.15.1 Detailed Description

This class manages the Desklets, that are Widgets placed directly on your desktop. A Desklet is a container that holds 1 applet's icon plus an optionnal list of other icons and an optionnal GTK widget, has a decoration, suports several accessibility types (like Compiz Widget Layer), and has a renderer. Desklets can be resized or moved directly with the mouse, and can be rotated in the 3 directions of space.

5.15.2 Enumeration Type Documentation

5.15.2.1 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_UPDATE_DESKLET** notification called when a desklet is updated in the fast rendering loop.
- **NOTIFICATION_UPDATE_DESKLET_SLOW** notification called when a desklet is updated in the slow rendering loop.
- **NOTIFICATION_RENDER_DESKLET** notification called when a desklet is rendered.
- **NOTIFICATION_STOP_DESKLET** notification called when a desklet is stopped, for instance before it is destroyed.
- **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 creayed.

5.15.3 Function Documentation

5.15.3.1 CairoDesklet* cairo_dock_create_desklet (Icon * plcon, CairoDeskletAttribute * pAttributes)

Create a desklet linked to an Icon, and load its configuration.

Parameters

plcon	the main icon, or NULL.
pAttributes	the configuration attributes, or NULL.

Returns

the newly allocated desklet.

5.15.3.2 void cairo_dock_destroy_desklet (CairoDesklet * pDesklet)

Destroy a desklet.

pDesklet	a desklet.

5.15.3.3 CairoDesklet* cairo_dock_foreach_desklet (CairoDockForeachDeskletFunc 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

	function to be called on eash desklet. If it returns TRUE, the loop ends and the function returns the current desklet.
user_data	data to be passed to the callback.

Returns

the found desklet, or NULL.

5.15.3.4 void cairo_dock_foreach_icons_in_desklets (CairoDockForeachlconFunc *pFunction*, gpointer *pUserData*)

Execute an action on all icons being inside a desklet.

Parameters

pFunction	the action.
pUserData	data passed to the callback.

5.15.3.5 void cairo_dock_reload_desklets_decorations (gboolean bDefaultThemeOnly)

Reload the decorations of all the desklets.

Parameters

bDefault-	whether to reload only the desklet that have the default decoration theme.
ThemeOnly	

5.15.3.6 void cairo_dock_set_all_desklets_visible (gboolean bOnWidgetLayerToo)

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

Parameters

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

5.15.3.7 void cairo_dock_set_desklets_visibility_to_default (void)

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

5.15.3.8 CairoDesklet* cairo_dock_get_desklet_by_Xid (Window Xid)

Search the desklet whose X ID matches the given one.

Parameters

Xid an X ID.

Returns

the desklet that matches, or NULL if none match.

5.15.3.9 Icon* cairo_dock_find_clicked_icon_in_desklet (CairoDesklet * pDesklet)

Find the currently pointed icon in a desklet, taking into account the 3D rotations.

Parameters

pDesklet the desklet.

Returns

the pointed icon, or NULL if none.

5.16 cairo-dock-desktop-file-factory.h File Reference

Functions

- void cairo_dock_remove_html_spaces (gchar *cString)
- gchar * cairo_dock_add_desktop_file_from_uri (const gchar *cURI, const gchar *cDockName, double fOrder, CairoDockIconGroup iGroup, GError **erreur)
- gchar * cairo_dock_add_desktop_file_from_type (CairoDockDesktopFileType iLauncher-Type, const gchar *cDockName, double fOrder, CairoDockIconGroup iGroup, GError **erreur)

5.16.1 Detailed Description

This class handles the creation and update of desktop files, which are group/key pair files used by Cairo-Dock to store information about icons: launchers, separators, subdocks.

5.16.2 Function Documentation

5.16.2.1 void cairo_dock_remove_html_spaces (gchar * cString)

Replace the %20 by normal spaces into the string. The string is directly modified.

Parameters

cString	the string (it can't be a constant string)	

5.16.2.2 gchar* cairo_dock_add_desktop_file_from_uri (const gchar * cURI, const gchar * cDockName, double fOrder, CairoDockIconGroup iGroup, GError ** erreur)

Create, add and fill a desktop file for a given URI. The URI can be either a common desktop file, a script, or a file/folder/mounting point.

Parameters

cURI	URI of a file defining the launcher.
cDockName	name of the dock the separator will be added.
fOrder	order of the icon inside the dock.
iGroup	group of the icon.
erreur	an error filled if something went wrong.

Returns

the name of the new desktop file, in a newly allocated string, or NULL if failed.

5.16.2.3 gchar* cairo_dock_add_desktop_file_from_type (CairoDockDesktopFileType iLauncherType, const gchar* cDockName, double fOrder, CairoDockIconGroup iGroup, GError* erreur)

Create and add an empty default desktop file for a given type.

Parameters

iLauncher-	type of the icon it will represent : launcher, file, container icon, separator.
Туре	
cDockName	name of the dock the separator will be added.
fOrder	order of the icon inside the dock.
iGroup	group of the icon.
erreur	an error filled if something went wrong.

Returns

the name of the new desktop file, in a newly allocated string, or NULL if failed.

5.17 cairo-dock-dialog-factory.h File Reference

Data Structures

• struct _CairoDialogRenderer

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

struct CairoDialogDecorator

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

struct CairoDialogAttribute

Configuration attributes of a Dialog.

struct _CairoDialog

Definition of a Dialog.

Defines

- #define CAIRO_DOCK_IS_DIALOG(pContainer)
- #define CAIRO DIALOG(pContainer)

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'.

Functions

- CairoDialog * cairo_dock_new_dialog (CairoDialogAttribute *pAttribute, Icon *pIcon, CairoContainer *pContainer)
- void cairo_dock_free_dialog (CairoDialog *pDialog)
- GtkWidget * cairo dock steal interactive widget from dialog (CairoDialog *pDialog)

5.17.1 Detailed Description

This class defines the Dialog container, useful to bring interaction with the user. A Dialog is a container that points to an icon. It contains the following optionnal components:

- · a message
- · an image on its left
- · a interaction widget below it
- · some buttons at the bottom.

A Dialog is constructed with a set of attributes grouped inside a <u>CairoDialogAttribute</u>. 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 only defines the constructor and destructor of a Dialog; to actually pop up a Dialog, use the Dialog Manager's functions in cairo-dock-dialog-manager.h.

5.17.2 Define Documentation

5.17.2.1 #define CAIRO_DOCK_IS_DIALOG(pContainer)

Say if a Container is a Dialog.

Parameters

pContainer

Returns

TRUE if the container is a dialog.

5.17.2.2 #define CAIRO_DIALOG(pContainer)

Cast a Container into a Dialog.

Parameters

pContainer	the container.	1
------------	----------------	---

Returns

the dialog.

5.17.3 Function Documentation

5.17.3.1 CairoDialog* cairo_dock_new_dialog (CairoDialogAttribute * pAttribute, Icon * plcon, CairoContainer * pContainer)

Creates a Dialog from a set of attributes. The Dialog is not placed, and has no interaction with the user.

Parameters

pAttribute	attributes of the dialog.
plcon	the icon that will hold the dialog.
pContainer	the container of the icon.

Returns

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

5.17.3.2 void cairo_dock_free_dialog (CairoDialog * pDialog)

Free a Dialog and all its allocated ressources. Should never be used, use cairo_dock_-dialog_unreference instead.

Parameters

```
pDialog the dialog.
```

```
5.17.3.3 GtkWidget* cairo_dock_steal_interactive_widget_from_dialog ( 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

```
pDialog the desklet with an interactive widget.
```

Returns

the widget.

5.18 cairo-dock-dialog-manager.h File Reference

Defines

• #define cairo_dock_remove_dialog_if_any(icon)

Enumerations

```
    enum CairoDialogNotifications {
        NOTIFICATION_UPDATE_DIALOG,
        NOTIFICATION_UPDATE_DIALOG_SLOW,
        NOTIFICATION_RENDER_DIALOG }
        signals
```

Functions

- gboolean cairo dock dialog reference (CairoDialog *pDialog)
- gboolean cairo_dock_dialog_unreference (CairoDialog *pDialog)
- gboolean cairo_dock_remove_dialog_if_any_full (lcon *icon, gboolean bAll)
- CairoDialog * cairo_dock_build_dialog (CairoDialogAttribute *pAttribute, Icon *pIcon, CairoContainer *pContainer)

CairoDialog * cairo_dock_show_dialog_full (const gchar *cText, Icon *pIcon, Cairo-Container *pContainer, double fTimeLength, const gchar *cIconPath, GtkWidget *pInteractiveWidget, CairoDockActionOnAnswerFunc pActionFunc, gpointer data, GFreeFunc pFreeDataFunc)

- CairoDialog * cairo_dock_show_temporary_dialog_with_icon_printf (const gchar *cText, lcon *plcon, CairoContainer *pContainer, double fTimeLength, const gchar *clconPath,...) G GNUC PRINTF(1
- CairoDialog *CairoDialog cairo_dock_show_temporary_dialog_with_icon (const gchar *cText, lcon *plcon, CairoContainer *pContainer, double fTimeLength, const gchar *clconPath)
- CairoDialog * cairo_dock_show_temporary_dialog (const gchar *cText, lcon *plcon, CairoContainer *pContainer, double fTimeLength)
- CairoDialog * cairo_dock_show_temporary_dialog_with_default_icon (const gchar *cText, lcon *plcon, CairoContainer *pContainer, double fTimeLength)
- CairoDialog * cairo_dock_show_dialog_with_question (const gchar *cText, Icon *pIcon, CairoContainer *pContainer, const gchar *cIconPath, CairoDockActionOnAnswerFunc pActionFunc, gpointer data, GFreeFunc pFreeDataFunc)
- CairoDialog * cairo_dock_show_dialog_with_entry (const gchar *cText, lcon *plcon, CairoContainer *pContainer, const gchar *clconPath, const gchar *cTextForEntry, CairoDockActionOnAnswerFunc pActionFunc, gpointer data, GFreeFunc pFreeDataFunc)
- CairoDialog * cairo_dock_show_dialog_with_value (const gchar *cText, Icon *pIcon, CairoContainer *pContainer, const gchar *cIconPath, double fValue, double fMax-Value, CairoDockActionOnAnswerFunc pActionFunc, gpointer data, GFreeFunc pFreeDataFunc)
- int cairo_dock_show_dialog_and_wait (const gchar *cText, lcon *plcon, Cairo-Container *pContainer, double fTimeLength, const gchar *clconPath, GtkWidget *pInteractiveWidget)
- gchar * cairo_dock_show_demand_and_wait (const gchar *cMessage, lcon *plcon, CairoContainer *pContainer, const gchar *cInitialAnswer)
- double cairo_dock_show_value_and_wait (const gchar *cMessage, lcon *plcon, CairoContainer *pContainer, double fInitialValue, double fMaxValue)
- int cairo_dock_ask_question_and_wait (const gchar *cQuestion, lcon *plcon, CairoContainer *pContainer)
- gboolean cairo_dock_icon_has_dialog (Icon *pIcon)
- lcon * cairo_dock_get_dialogless_icon_full (CairoDock *pDock)
- CairoDialog * cairo_dock_show_general_message (const gchar *cMessage, double fTimeLength)
- int cairo_dock_ask_general_question_and_wait (const gchar *cQuestion)
- void cairo_dock_hide_dialog (CairoDialog *pDialog)
- void cairo dock unhide dialog (CairoDialog *pDialog)
- void cairo dock toggle dialog visibility (CairoDialog *pDialog)

5.18.1 Detailed Description

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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.

Dialogs are constructed with a set of attributes grouped inside a <u>CairoDialogAttribute</u>. See <u>cairo-dock-dialog-factory.h</u> for the list of available attributes.

The most generic way to build a Dialog is to fill a _CairoDialogAttribute and pass it to cairo_dock_build_dialog.

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 cairo dock show temporary dialog with icon
- to ask the user a choice, a value or a text, you can use cairo_dock_show_dialog_with_question, cairo_dock_show_dialog_with_value or cairo_dock_show_dialog_with_entry.
- if you need to block while waiting for the user, use the xxx_and_wait version of these functions.
- if you want to pop up only 1 dialog at once on a given icon, use cairo_dock_remove_dialog_if_any before you pop up your dialog.

5.18.2 Define Documentation

5.18.2.1 #define cairo_dock_remove_dialog_if_any(icon)

Unreference all the dialogs pointing on an icon.

Parameters

icon the icon you want to delete all dialogs from.

Returns

TRUE if at least one dialog has been unreferenced.

5.18.3 Enumeration Type Documentation

5.18.3.1 enum Cairo Dialog Notifications

signals

Enumerator:

NOTIFICATION_UPDATE_DIALOG notification called when a Dialog is updated in the fast rendering loop.

NOTIFICATION_UPDATE_DIALOG_SLOW notification called when a Dialog is updated in the slow rendering loop.

NOTIFICATION_RENDER_DIALOG notification called when a Dialog is rendered.

5.18.4 Function Documentation

5.18.4.1 gboolean cairo_dock_dialog_reference (CairoDialog * pDialog)

Increase by 1 the reference of a dialog. Use cairo_dock_dialog_unreference when you're done, so that the dialog can be destroyed.

Parameters

pDialog	the dialog.
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Returns

TRUE if the reference was not nul, otherwise you must not use it.

5.18.4.2 gboolean cairo_dock_dialog_unreference (CairoDialog * pDialog)

Decrease by 1 the reference of a dialog. If the reference becomes nul, the dialog is destroyed.

Parameters

pDialog	the dialog.	
---------	-------------	--

Returns

TRUE if the reference became nul, in which case the dialog must not be used anymore.

5.18.4.3 gboolean cairo_dock_remove_dialog_if_any_full (Icon * icon, gboolean bAll)

Unreference the dialogs pointing on an icon.

Parameters

icon	the icon you want to delete all dialogs from.
bAll	whether all dialogs should be removed or only the one that don't have inter-
	action with the user.

Returns

TRUE if at least one dialog has been unreferenced.

5.18.4.4 CairoDialog* cairo_dock_build_dialog (CairoDialogAttribute * pAttribute, Icon * plcon, CairoContainer * pContainer)

Generic function to pop up a dialog.

Parameters

pAttribute	attributes of the dialog.
plcon	the icon that will hold the dialog.
pContainer	the container of the icon.

Returns

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

5.18.4.5 CairoDialog* cairo_dock_show_dialog_full (const gchar * cText, Icon * plcon, CairoContainer * 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

cText	the message to display.
plcon	the icon that will hold the dialog.
pContainer	the container of the icon.
fTimeLength	the duration of the dialog (in ms), or 0 for an unlimited dialog.
clconPath	path to an icon to display in the margin.
pInterac-	a GTK widget; It is destroyed with the dialog. Use 'gtk_widget_reparent()'
tiveWidget	before if you want to keep it alive, or use cairo_dock_show_dialog_and
	wait.
pActionFunc	the callback called when the user makes its choice. NULL means there will
	be no buttons.
data	data passed as a parameter of the callback.
pFreeData-	function used to free the data when the dialog is destroyed, or NULL if un-
Func	necessary.

Returns

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

5.18.4.6 CairoDialog* cairo_dock_show_temporary_dialog_with_icon_printf (const gchar * cText, Icon * plcon, CairoContainer * pContainer, double fTimeLength, const gchar * clconPath, ...)

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

сТе	the message to display.
plc	the icon that will hold the dialog.
pContain	er the container of the icon.
fTimeLeng	th the duration of the dialog (in ms), or 0 for an unlimited dialog.

clconPath	path to an icon.
	arguments to insert in the message, in a printf way.

Returns

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

5.18.4.7 CairoDialog CairoDialog cairo_dock_show_temporary_dialog_with_icon (const gchar * cText, Icon * plcon, CairoContainer * pContainer, double fTimeLength, const gchar * clconPath)

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

Parameters

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

Returns

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

5.18.4.8 CairoDialog* cairo_dock_show_temporary_dialog (const gchar * cText, Icon * plcon, CairoContainer * pContainer, double fTimeLength)

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

Parameters

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

Returns

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

5.18.4.9 CairoDialog* cairo_dock_show_temporary_dialog_with_default_icon (const gchar * cText, lcon * plcon, CairoContainer * pContainer, double fTimeLength)

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

Parameters

cText	the format of the message to display.
plcon	the icon that will hold the dialog.
pContainer	the container of the icon.
fTimeLength	the duration of the dialog (in ms), or 0 for an unlimited dialog.

Returns

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

5.18.4.10 CairoDialog* cairo_dock_show_dialog_with_question (const gchar * cText, lcon * plcon, CairoContainer * 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

cText	the message to display.
plcon	the icon that will hold the dialog.
pContainer	the container of the icon.
clconPath	path to an icon to display in the margin.
pActionFunc	the callback.
data	data passed as a parameter of the callback.
pFreeData-	function used to free the data.
Func	

Returns

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

5.18.4.11 CairoDialog* cairo_dock_show_dialog_with_entry (const gchar * cText, lcon * plcon, CairoContainer * 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.

cText	the message to display.
plcon	the icon that will hold the dialog.

pContainer	the container of the icon.
clconPath	path to an icon to display in the margin.
cTextForEn-	text to display initially in the entry.
try	
pActionFunc	the callback.
data	data passed as a parameter of the callback.
pFreeData-	function used to free the data.
Func	

Returns

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

5.18.4.12 CairoDialog * cairo_dock_show_dialog_with_value (const gchar * cText, Icon * plcon, CairoContainer * 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

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

Returns

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

5.18.4.13 int cairo_dock_show_dialog_and_wait (const gchar * cText, Icon * plcon, CairoContainer * pContainer, double fTimeLength, 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

cText	the message to display.
plcon	the icon that will hold the dialog.
pContainer	the container of the icon.
fTimeLength	time length of the dialog, or 0 for an unlimited dialog.
clconPath	path to an icon to display in the margin.
pInterac-	an interactive widget.
tiveWidget	

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.

5.18.4.14 gchar* cairo_dock_show_demand_and_wait (const gchar * cMessage, lcon * plcon, CairoContainer * pContainer, const gchar * cInitialAnswer)

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

Parameters

cMessage	the message to display.
plcon	the icon that will hold the dialog.
pContainer	the container of the icon.
cInitialAn-	the initial value of the entry (can be NULL).
swer	

Returns

the text entered by the user, or NULL if he cancelled or if the dialog has been destroyed before.

5.18.4.15 double cairo_dock_show_value_and_wait (const gchar * cMessage, Icon * plcon, CairoContainer * pContainer, double fInitialValue, double fMaxValue)

Pop up a dialog with an horizontal scale between 0 and fMaxValue, and 2 buttons ok/cancel, and block until the user makes its choice.

cMessage	the message to display.
plcon	the icon that will hold the dialog.
pContainer	the container of the icon.
fInitialValue	the initial value of the scale.
fMaxValue	the maximum value of the scale.

Returns

the value choosed by the user, or -1 if he cancelled or if the dialog has been destroyed before.

5.18.4.16 int cairo_dock_ask_question_and_wait (const gchar * cQuestion, Icon * plcon, CairoContainer * pContainer)

Pop up a dialog with a question and 2 buttons yes/no, and block until the user makes its choice.

Parameters

cQuestion	the question to ask.
plcon	the icon that will hold the dialog.
pContainer	the container of the icon.

Returns

GTK_RESPONSE_YES ou GTK_RESPONSE_NO according to the user's choice, or GTK_RESPONSE_NONE if the dialog has been destroyed before.

5.18.4.17 gboolean cairo_dock_icon_has_dialog (Icon * plcon)

Test if an icon has at least one dialog.

Parameters

	Also de austro de la companya della companya della companya de la companya della
nicon	The Icon.
μ.σσ	

Returns

TRUE if the icon has one or more dialog(s).

5.18.4.18 Icon* cairo_dock_get_dialogless_icon_full (CairoDock * pDock)

Search the "the best icon possible" for a Dock to hold a general dialog.

Parameters

<i>pDock</i> a dock	(NULL to search inside the main dock).

Returns

an Icon, or NULL if the dock is empty.

5.18.4.19 CairoDialog* cairo_dock_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

cMessage	the message.
fTimeLength	life time of the dialog, in ms.

Returns

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

5.18.4.20 int cairo_dock_ask_general_question_and_wait (const gchar * cQuestion)

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

Parameters

cQuestion	the message.	
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Returns

GTK_RESPONSE_YES ou GTK_RESPONSE_NO according to the user's choice, or GTK_RESPONSE_NONE if the dialog has been destroyed before.

5.18.4.21 void cairo_dock_hide_dialog (CairoDialog * pDialog)

Hide a dialog.

Parameters

pDialog	the dialog.]

5.18.4.22 void cairo_dock_unhide_dialog (CairoDialog * pDialog)

Show a dialog and give it focus.

pDialog	the dialog.

5.18.4.23 void cairo_dock_toggle_dialog_visibility (CairoDialog * pDialog)

Toggle the visibility of a dialog.

Parameters

pDialog the dialog.

5.19 cairo-dock-dock-facility.h File Reference

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_calculate_icons_positions_at_rest_linear (GList *plconList, double fFlatDockWidth, int iXOffset)
- Icon * cairo_dock_apply_wave_effect_linear (CairoDock *pDock)
- double cairo dock get current dock width linear (CairoDock *pDock)
- void cairo dock check if mouse inside linear (CairoDock *pDock)
- void cairo dock check can drop linear (CairoDock *pDock)
- GList * cairo_dock_get_first_drawn_element_linear (GList *icons)

5.19.1 Detailed Description

This class contains functions to manipulate docks. Some functions are dedicated to linear docks, that is to say when the icon's position can be defined by 1 coordinate inside a non looped interval; it doesn't mean they have to be drawn on a straight line though, see the Curve view.

5.19.2 Function Documentation

5.19.2.1 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.

,

5.19.2.2 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

pDock	the dock.

Returns

the pointed icon, or NULL if none is pointed.

5.19.2.3 void cairo_dock_show_subdock (Icon * pPointedlcon, CairoDock * pParentDock)

Pop up a sub-dock.

Parameters

pPointedI-	icon pointing on the sub-dock.
con	
pParentDock	dock containing the icon.

5.19.2.4 GList* cairo_dock_calculate_icons_positions_at_rest_linear (GList* plconList, double fFlatDockWidth, int iXOffset)

Calculate the position at rest (when the mouse is outside of the dock and its size is normal) of the icons of a linear dock.

Parameters

plconList	a list of icons.
fFlatDock-	width of all the icons placed next to each other.
Width	
iXOffset	an offset on the position of the first icon.

Returns

the element containing the most left icon.

 $\textbf{5.19.2.5} \quad \textbf{Icon}*\ \textbf{cairo_dock_apply_wave_effect_linear}\ (\ \textbf{CairoDock}*\ \textbf{\textit{pDock}}\)$

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

pDock	a linear dock.

Returns

the pointed icon, or NULL if none is pointed.

 $5.19.2.6 \quad double\ cairo_dock_get_current_dock_width_linear\ (\ \textbf{CairoDock}\ *\ \textbf{\textit{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

pDock	a linear dock.

Returns

the dock's width.

5.19.2.7 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 'iMousePositionType' field.

Parameters

5.19.2.8 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 'bCan-Drop' field.

Parameters

pDock	a linear dock.

5.19.2.9 GList* cairo_dock_get_first_drawn_element_linear (GList * icons)

Get the first icon to be drawn inside a linear dock, so that if you draw from left to right, the pointed icon will be drawn at last.

Parameters

icons	a list of icons of a linear dock.

Returns

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

5.20 cairo-dock-dock-factory.h File Reference

Data Structures

struct CairoDockRenderer

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

struct CairoDock

Definition of a Dock, which derives from a Container.

Defines

- #define CAIRO_DOCK_IS_DOCK(pContainer)
- #define CAIRO_DOCK(pDock)
- #define cairo dock insert icon in dock(icon, pDock, bUpdateSize, bAnimated)
- #define cairo dock remove one icon from dock(pDock, icon)
- #define cairo_dock_remove_icon_from_dock(pDock, icon)
- #define cairo_dock_add_new_launcher_by_uri(cExternDesktopFileURI, pReceivingDock, fOrder)
- #define cairo_dock_add_new_launcher_by_type(iType, pReceivingDock, fOrder, iGroup)

Functions

- void cairo_dock_insert_icon_in_dock_full (Icon *icon, CairoDock *pDock, gboolean bUpdateSize, gboolean bAnimated, gboolean bInsertSeparator, GCompareFunc pCompareFunc)
- gboolean cairo_dock_detach_icon_from_dock (Icon *icon, CairoDock *pDock, gboolean bCheckUnusedSeparator)
- void cairo_dock_remove_automatic_separators (CairoDock *pDock)
- void cairo_dock_insert_separators_in_dock (CairoDock *pDock)
- void cairo_dock_remove_icons_from_dock (CairoDock *pDock, CairoDock *pReceivingDock, const gchar *cReceivingDockName)

5.20.1 Detailed Description

This class defines the Docks, and gives the way to create, destroy, and fill them.

A dock is a container that holds a set of icons and a renderer (also known as view).

It has the ability to be placed anywhere on the screen edges and to resize itself automatically to fit the screen's size.

It supports internal dragging of its icons with the mouse, and dragging of itself with alt+mouse.

A dock can be either a main-dock (not linked to any icon) or a sub-dock (linked to an icon of another dock), and there can be as many docks of each sort as you want.

5.20.2 Define Documentation

5.20.2.1 #define CAIRO_DOCK_IS_DOCK(pContainer)

Say if a Container is a Dock.

Parameters

pContainer	the container.

Returns

TRUE if the container is a Dock.

5.20.2.2 #define CAIRO_DOCK(pDock)

Cast a Container into a Dock.

Parameters

pDock the container to consider as a dock.

Returns

the dock.

5.20.2.3 #define cairo_dock_insert_icon_in_dock(icon, pDock, bUpdateSize, bAnimated)

Insert an icon into a dock. Insert an automatic separator if needed. Do nothing if the icon already exists inside the dock.

Parameters

icon	the icon to be inserted. It should have been filled beforehand.
pDock	the dock to insert inside.
bUpdateSize	TRUE to update the size of the dock after the insertion.
bAnimated	TRUE to arm the icon's animation for insertion.

5.20.2.4 #define cairo_dock_remove_one_icon_from_dock(pDock, icon)

Completely remove an icon from the dock, that is to say detach the icon, and remove all links with Cairo-Dock: its .desktop is deleted, its module is deactivated, and its Xid is removed from the Taskbar (its class is handled too). Unnecessary separators are not tested. The icon is not yet destroyed, but looses its sub-dock in case of a container launcher.

|--|

icon the icon to be removed.

5.20.2.5 #define cairo_dock_remove_icon_from_dock(pDock, icon)

Completely remove an icon from the dock, that is to say detach the icon, and remove all links with Cairo-Dock: its .desktop is deleted, its module is deactivated, and its Xid is removed from the Taskbar (its class is handled too). Unnecessary separators are removed as well. The icon is not yet destroyed, but looses its sub-dock in case of a container launcher.

Parameters

pDock	the dock containing the icon, or NULL if the icon is already detached.
icon	the icon to be removed.

5.20.2.6 #define cairo_dock_add_new_launcher_by_uri(cExternDesktopFileURI, pReceivingDock, fOrder)

Add a launcher from a common desktop file: create and add the corresponding .desktop file with the others, load the corresponding icon, and insert it inside a dock with an animtion.

Parameters

cExtern-	path to a desktop file.
Desktop-	
FileURI	
pReceiving-	the dock that will hold the new launcher.
Dock	
fOrder	the order of the icon inside the dock.

Returns

the newly created Icon corresponding to the file, or NULL if an error occured.

5.20.2.7 #define cairo_dock_add_new_launcher_by_type(iType, pReceivingDock, fOrder, iGroup)

Add an empty default launcher of a given type: create and add the corresponding .desktop file with the others, load the corresponding icon, and insert it inside a dock with an animtion. The launcher is then suitable for being edited by the user to add real properties.

iType	type of the launcher.

pReceiving-	the dock that will hold the new launcher.
Dock	
fOrder	the order of the icon inside the dock.
iGroup	the group it will belong to

Returns

the newly created Icon corresponding to the type, or NULL if an error occured.

5.20.3 Function Documentation

5.20.3.1 void cairo_dock_insert_icon_in_dock_full (Icon * icon, CairoDock * pDock, gboolean bUpdateSize, gboolean bAnimated, gboolean bInsertSeparator, GCompareFunc pCompareFunc)

Insert an icon into a dock. Do nothing if the icon already exists inside the dock.

Parameters

icon	the icon to be inserted. It should have been filled beforehand.
pDock	the dock to insert inside.
bUpdateSize	TRUE to update the size of the dock after the insertion.
bAnimated	TRUE to arm the icon's animation for insertion.
bInsertSep-	TRUE to insert an automatic separator if needed.
arator	
pCompare-	a sorting function to place the new icon amongst the others, or NULL to sort
Func	by group/order.

5.20.3.2 gboolean cairo_dock_detach_icon_from_dock (Icon * icon, CairoDock * pDock, gboolean bCheckUnusedSeparator)

Detach an icon from its dock. The icon is not destroyed, and can be directly re-inserted in another container; it keeps its sub-dock, but looses its dialogs. Do nothing if the icon doesn't exist inside the dock.

Parameters

icon	the icon to detach.
pDock	the dock containing the icon.
bCheck-	TRUE to check and remove unnecessary separators.
UnusedSep-	
arator	

Returns

TRUE if the icon has been detached.

5.20.3.3 void cairo_dock_remove_automatic_separators (CairoDock * pDock)

Remove and destroy all automatic separators inside a dock.

Parameters

```
pDock the dock.
```

5.20.3.4 void cairo_dock_insert_separators_in_dock (CairoDock * pDock)

Add automatic separators between the different types of icons inside a dock.

Parameters

```
pDock the dock.
```

5.20.3.5 void cairo_dock_remove_icons_from_dock (CairoDock * pDock, CairoDock * pReceivingDock, const gchar * cReceivingDockName)

Remove all icons from a dock (and its sub-docks). If the receiving dock is NULL, the icons are destroyed and removed from the current theme itself.

Parameters

pDock	a dock.
pReceiving-	the dock that will receive the icons, or NULL to destroy and remove the icons.
Dock	
cReceiving-	name of the receiving dock.
DockName	

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

Enumerations

```
    enum CairoDocksNotifications {
        NOTIFICATION_ENTER_DOCK,
        NOTIFICATION_LEAVE_DOCK,
        NOTIFICATION_UPDATE_DOCK,
        NOTIFICATION_UPDATE_DOCK_SLOW,
        NOTIFICATION_RENDER_DOCK,
        NOTIFICATION_STOP_DOCK,
        NOTIFICATION_INSERT_ICON,
        NOTIFICATION_REMOVE_ICON,
        NOTIFICATION ICON MOVED }
```

signals

Functions

- CairoDock * cairo_dock_create_dock (const gchar *cDockName, const gchar *cRendererName)
- void cairo_dock_reference_dock (CairoDock *pDock, CairoDock *pParentDock)
- CairoDock * cairo_dock_create_subdock_from_scratch (GList *plconList, gchar *cDockName, CairoDock *pParentDock)
- void cairo_dock_destroy_dock (CairoDock *pDock, const gchar *cDockName)
- const gchar * cairo_dock_search_dock_name (CairoDock *pDock)
- gchar * cairo_dock_get_readable_name_for_fock (CairoDock *pDock)
- CairoDock * cairo dock search dock from name (const gchar *cDockName)
- Icon * cairo_dock_search_icon_pointing_on_dock (CairoDock *pDock, CairoDock **pParentDock)
- void cairo_dock_rename_dock (const gchar *cDockName, CairoDock *pDock, const gchar *cNewName)
- void cairo dock foreach docks (GHFunc pFunction, gpointer pUserData)
- void cairo dock foreach root docks (GFunc pFunction, gpointer pUserData)
- void cairo_dock_foreach_icons_in_docks (CairoDockForeachIconFunc pFunction, gpointer pUserData)
- void cairo dock hide parent dock (CairoDock *pDock)
- gboolean cairo dock hide child docks (CairoDock *pDock)
- void cairo_dock_reload_buffers_in_all_docks (gboolean bReloadAppletsToo)
- void cairo_dock_reload_one_root_dock (const gchar *cDockName, CairoDock *pDock)
- void cairo_dock_remove_root_dock_config (const gchar *cDockName)
- void cairo_dock_add_root_dock_config_for_name (const gchar *cDockName)
- gchar * cairo_dock_add_root_dock_config (void)
- void cairo_dock_set_dock_visibility (CairoDock *pDock, CairoDockVisibility iVisibility)

5.21.1 Detailed Description

This class manages all the Docks. Each Dock has a name that is unique. A Dock can be a sub-dock or a root-dock, whether there exists an icon that points on it or not, but there is no fundamental difference between both.

5.21.2 Enumeration Type Documentation

5.21.2.1 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_UPDATE_DOCK notification called when a dock is updated in the fast rendering loop.

NOTIFICATION_UPDATE_DOCK_SLOW notification called when when a dock is updated in the slow rendering loop.

NOTIFICATION_RENDER_DOCK notification called when a dock is rendered.

NOTIFICATION_STOP_DOCK notification called when a dock is stopped, for instance before it is destroyed.

NOTIFICATION_INSERT_ICON notification called when an icon has just been inserted into a dock. data : {Icon, CairoDock}

NOTIFICATION_REMOVE_ICON notification called when an icon is going to be removed from a dock. data : {Icon, CairoDock}

NOTIFICATION_ICON_MOVED notification called when an icon is moved inside a dock. data : {Icon, CairoDock}

5.21.3 Function Documentation

5.21.3.1 CairoDock* cairo_dock_create_dock (const gchar * cDockName, const gchar * cRendererName)

Create a new root dock.

Parameters

cDockName	name of the dock, used to identify it quickly. If the name is already used, the
	corresponding dock is returned.
cRender-	name of a renderer. If NULL, the default renderer will be applied.
erName	

Returns

the newly allocated dock, to destroy with cairo_dock_destroy_dock

5.21.3.2 void cairo_dock_reference_dock (CairoDock * pDock, CairoDock * pParentDock)

Increase by 1 the number of pointing icons. If the dock was a root dock, it becomes a sub-dock.

pDock	a dock.
pParentDock	its parent dock, if it becomes a sub-dock, otherwise it can be NULL.

5.21.3.3 CairoDock* cairo_dock_create_subdock_from_scratch (GList * plconList, gchar * cDockName, CairoDock * pParentDock)

Create a new dock of type "sub-dock", and load a given list of icons inside. The list then belongs to the dock, so it must not be freeed after that. The buffers of each icon are loaded, so they just need to have an image filename and a name.

Parameters

plconList	a list of icons that will be loaded and inserted into the new dock.
cDockName	desired name for the new dock.
pParentDock	the parent dock.

Returns

the newly allocated dock.

5.21.3.4 void cairo_dock_destroy_dock (CairoDock * pDock, const gchar * cDockName)

Destroy a dock and its icons.

Parameters

pDock	the dock.
cDockName	name for the dock.

5.21.3.5 const gchar* cairo_dock_search_dock_name (CairoDock * pDock)

Search the name of a Dock. It does a linear search in the table of Docks.

Parameters

pDock	the dock.

Returns

the name of the dock, or NULL if not found.

5.21.3.6 gchar* cairo_dock_get_readable_name_for_fock (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 cairo_dock_search_dock_name for them.

pDock	the dock.
I	

Returns

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

5.21.3.7 CairoDock* cairo_dock_search_dock_from_name (const gchar * cDockName)

Search a Dock from a given name. It does a fast search in the table of Docks.

Parameters

cDockName	the name of the dock.

Returns

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

5.21.3.8 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

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

Returns

the icon pointing on the dock.

5.21.3.9 void cairo_dock_rename_dock (const gchar * cDockName, CairoDock * pDock, const gchar * cNewName)

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

Parameters

cDockName	name of the dock.
pDock	the dock (optional).
cNewName	the new name.

5.21.3.10 void cairo_dock_foreach_docks (GHFunc pFunction, gpointer pUserData)

Execute an action on all docks.

Parameters

pFunction	the action.
pUserData	data passed to the callback.

5.21.3.11 void cairo_dock_foreach_root_docks (GFunc pFunction, gpointer pUserData)

Execute an action on all main docks.

Parameters

pFunction	the action.
pUserData	data passed to the callback.

5.21.3.12 void cairo_dock_foreach_icons_in_docks (CairoDockForeachlconFunc *pFunction*, gpointer *pUserData*)

Execute an action on all icons being inside a dock.

Parameters

pFunction	the action.
pUserData	data passed to the callback.

5.21.3.13 void cairo_dock_hide_parent_dock (CairoDock * pDock)

Recursively hides all the parent docks of a sub-dock.

Parameters

pDock	the (sub)dock.

5.21.3.14 gboolean cairo_dock_hide_child_docks (CairoDock * pDock)

Recursively hides all the sub-docks of a given dock.

Parameters

pDock	he dock.

Returns

TRUE if a sub-dock has been hidden.

5.21.3.15 void cairo_dock_reload_buffers_in_all_docks (gboolean bReloadAppletsToo)

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

Parameters

bReloadAp-	TRUE to reload applet icons too.
pletsToo	

5.21.3.16 void cairo_dock_reload_one_root_dock (const gchar * cDockName, CairoDock * pDock)

Reload the config of a root dock and update it accordingly.

Parameters

cDockName	name of the dock.
pDock	the dock.

5.21.3.17 void cairo_dock_remove_root_dock_config (const gchar * cDockName)

Delete the config of a root dock. Doesn't delete the dock (use cairo_dock_destroy_dock for that), but if it was empty, it won't be created the next time you restart Cairo-Dock.

Parameters

cDockName	name of the dock.
-----------	-------------------

5.21.3.18 void cairo_dock_add_root_dock_config_for_name (const gchar * cDockName)

Add a config file for a root dock. Does not create the dock (use cairo_dock_create_dock for that). If the config file already exists, it is overwritten (use cairo_dock_search_dock_from_name to check if the dock already exists).

Parameters

a.ao.o.o		_
cDockName	name of the dock.	

5.21.3.19 gchar* cairo_dock_add_root_dock_config (void)

Add a config file for a new root dock. Does not create the dock (use cairo_dock_create_dock for that).

Returns

the unique name for the new dock, to be passed to cairo_dock_create_dock.

5.21.3.20 void cairo_dock_set_dock_visibility (CairoDock * pDock, CairoDockVisibility iVisibility)

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

Parameters

pDock	a root dock.
iVisibility	its new visibility.

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

Defines

- #define cairo_dock_create_texture_from_image(cImagePath)
- #define _cairo_dock_delete_texture(iTexture)
- #define cairo dock enable texture(...)
- #define _cairo_dock_disable_texture(...)
- #define _cairo_dock_set_alpha(fAlpha)
- #define cairo dock set blend source(...)
- #define _cairo_dock_set_blend_alpha(...)
- #define _cairo_dock_set_blend_over(...)
- #define _cairo_dock_set_blend_pbuffer(...)
- #define _cairo_dock_apply_texture_at_size(iTexture, w, h)
- #define _cairo_dock_apply_texture(iTexture)
- #define _cairo_dock_apply_texture_at_size_with_alpha(iTexture, w, h, fAlpha)

Functions

- void cairo_dock_render_one_icon_opengl (lcon *icon, CairoDock *pDock, double fDockMagnitude, gboolean bUseText)
- GLuint cairo dock create texture from surface (cairo surface t *plmageSurface)
- GLuint cairo_dock_load_texture_from_raw_data (const guchar *pTextureRaw, int iWidth, int iHeight)
- GLuint cairo_dock_create_texture_from_image_full (const gchar *cImagePath, double *fImageWidth, double *fImageHeight)
- void cairo_dock_update_icon_texture (Icon *pIcon)
- void cairo_dock_update_label_texture (Icon *pIcon)
- void cairo_dock_update_quick_info_texture (Icon *plcon)

5.22.1 Detailed Description

This class provides some useful functions to draw with OpenGL.

5.22.2 Define Documentation

5.22.2.1 #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

```
cImagePath path to an image.
```

Returns

the newly allocated texture, to be destroyed with _cairo_dock_delete_texture.

5.22.2.2 #define _cairo_dock_delete_texture(iTexture)

Delete an OpenGL texture from the Graphic Card.

Parameters

iTexture variable containing the ID of a texture.

5.22.2.3 #define _cairo_dock_enable_texture(...)

Enable texture drawing.

5.22.2.4 #define _cairo_dock_disable_texture(...)

Disable texture drawing.

5.22.2.5 #define _cairo_dock_set_alpha(fAlpha)

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

Parameters

fAlpha alpha

5.22.2.6 #define _cairo_dock_set_blend_source(...)

Set the color blending to overwrite.

5.22.2.7 #define _cairo_dock_set_blend_alpha(...)

Set the color blending to mix, for premultiplied texture.

5.22.2.8 #define _cairo_dock_set_blend_over(...)

Set the color blending to mix.

5.22.2.9 #define _cairo_dock_set_blend_pbuffer(...)

Set the color blending to mix on a pbuffer.

5.22.2.10 #define _cairo_dock_apply_texture_at_size(iTexture, w, h)

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

Parameters

iTexture	the texture
W	width
h	height

5.22.2.11 #define _cairo_dock_apply_texture(iTexture)

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

Parameters

iTexture	the texture

5.22.2.12 #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

iTexture	the texture
W	width
h	height
fAlpha	the transparency, between 0 and 1.

5.22.3 Function Documentation

5.22.3.1 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

icon	the icon to draw.
pDock	the dock containing the icon.
fDockMagni-	current magnitude of the dock.
tude	
bUseText	TRUE to draw the labels.

5.22.3.2 GLuint cairo_dock_create_texture_from_surface (cairo_surface_t * plmageSurface)

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

plmageSur-	the surface, created with one of the 'cairo_dock_create_surface_xxx' func-
face	tions.

Returns

the newly allocated texture, to be destroyed with _cairo_dock_delete_texture.

5.22.3.3 GLuint cairo_dock_load_texture_from_raw_data (const guchar * pTextureRaw, int iWidth, int iHeight)

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

Parameters

pTextur-	a buffer of pixels.
eRaw	
iWidth	width of the image.
iHeight	height of the image.

Returns

the newly allocated texture, to be destroyed with _cairo_dock_delete_texture.

5.22.3.4 GLuint cairo_dock_create_texture_from_image_full (const gchar * clmagePath, 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

	clmagePath	path to an image.
	flmageWidth	pointer that will be filled with the width of the image.
ĺ	flmage-	pointer that will be filled with the height of the image.
	Height	

Returns

the newly allocated texture, to be destroyed with $_$ cairo $_$ dock $_$ delete $_$ texture.

5.22.3.5 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

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

5.22.3.6 void cairo_dock_update_label_texture (Icon * plcon)

Update the icon's label texture with its current label surface.

Parameters

nlcon	the icon.
picon	the foot.

5.22.3.7 void cairo_dock_update_quick_info_texture (Icon * plcon)

Update the icon's quick-info texture with its current quick-info surface.

Parameters

plcon	the icon.

5.23 cairo-dock-draw.h File Reference

Defines

#define cairo dock erase cairo context(pCairoContext)

Functions

• cairo_t * cairo_dock_create_drawing_context_generic (CairoContainer *pContainer)

CONTEXT /// /////////.

- cairo_t * cairo_dock_create_drawing_context_on_container (CairoContainer *pContainer)
- cairo_t * cairo_dock_create_drawing_context_on_area (CairoContainer *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 fDockMagnitude, gboolean bUseText)
- void cairo_dock_draw_string (cairo_t *pCairoContext, CairoDock *pDock, double fStringLineWidth, gboolean blsLoop, gboolean bForceConstantSeparator)

5.23.1 Detailed Description

This class provides some useful functions to draw with libcairo.

5.23.2 Define Documentation

5.23.2.1 #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

pCairoCon-	a drawing context.
text	

5.23.3 Function Documentation

5.23.3.1 cairo_t* cairo_dock_create_drawing_context_generic (CairoContainer * pContainer)

CONTEXT /// /////////.

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

Parameters

pContainer	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.

5.23.3.2 cairo_t* cairo_dock_create_drawing_context_on_container (CairoContainer * pContainer)

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

Parameters

pContainer	the container on which you want to draw.

Returns

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

5.23.3.3 cairo_t* cairo_dock_create_drawing_context_on_area (CairoContainer * pContainer, GdkRectangle * pArea, double * fBgColor)

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

Parameters

pContainer	the container on which you want to draw
pArea	part of the container to draw.
fBgColor	background color (rgba) to fill the area with, or NULL to let it transparent.

Returns

the newly allocated context, with a clip corresponding to the area, to be destroyed with 'cairo_destroy'.

 $\begin{array}{ll} 5.23.3.4 & \text{void cairo_dock_draw_rounded_rectangle (cairo_t * \textit{pCairoContext}, double \textit{fRadius}, \\ & \text{double \textit{fLineWidth}, double \textit{fFrameWidth}, double \textit{fFrameHeight})} \end{array}$

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.

pCairoCon-	a drawing context; the current matrix is not altered, but the current path is.
text	
fRadius	radius if the corners.

	fLineWidth	width of the line.
	fFrameWidth	width of the rectangle, without the corners.
Ī	fFrame-	height of the rectangle, including the corners.
	Height	

5.23.3.5 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

	icon	the icon to draw.
	pDock	the dock containing the icon.
pCaiı	roCon-	a context on the dock, not altered by the function.
	text	

5.23.3.6 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

icon	the icon to draw.
pDock	the dock containing the icon.
pCairoCon-	a context on the dock, it is altered by the function.
text	
fDockMagni-	current magnitude of the dock.
tude	
bUseText	TRUE to draw the labels.

5.23.3.7 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

pCairoCon-	a context on the dock, not altered by the function.
text	
pDock	the dock.
fString-	width of the line.
LineWidth	

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blsLoop	TRUE to loop (link the last icon to the first one).
bForceCon-	TRUE to consider separators having a constant size.
stantSepara-	
tor	

5.24 cairo-dock-emblem.h File Reference

Data Structures

• struct _CairoEmblem

Definition of an Emblem. You shouldn't access any of its fields directly.

Defines

#define cairo dock set emblem position(pEmblem, pos)

Enumerations

• enum CairoEmblemPosition

Available position of the emblem on the icon.

Functions

- CairoEmblem * cairo dock make emblem (const gchar *cImageFile, Icon *pIcon)
- CairoEmblem * cairo_dock_make_emblem_from_surface (cairo_surface_t *pSurface, int iSurfaceWidth, int iSurfaceHeight, Icon *pIcon)
- CairoEmblem * cairo_dock_make_emblem_from_texture (GLuint iTexture, Icon *pIcon)
- void cairo_dock_free_emblem (CairoEmblem *pEmblem)
- void cairo_dock_draw_emblem_on_icon (CairoEmblem *pEmblem, Icon *pIcon, CairoContainer *pContainer)

5.24.1 Detailed Description

This class defines Emblems, that are small images superimposed on the icon at a given place.

The emblem is drawn directly on the icon, so it modifies its surface/texture itself. Thus, to remove an emblem, you have to set the original image on the icon.

Emblems can be placed in the corners of the icon, or in the middle of it.

Usage: create an Emblem with cairo_dock_make_emblem set its position with cairo_dock_set_emblem_position you can then render the emblem on the icon with cairo_dock_draw_emblem_on_icon. free the emblem when you're done with cairo_dock_free_emblem

An emblem can be used as many times as you want on any icon. The only limitation is that an emblem uses either Cairo or OpenGL, this is decided at the creation time; so the icons you draw the emblem on must be drawn with the same rendering.

5.24.2 Define Documentation

5.24.2.1 #define cairo_dock_set_emblem_position(pEmblem, pos)

Set the position of an emblem.

Parameters

pEmblem	the emblem
pos	the position (a CairoEmblemPosition)

5.24.3 Function Documentation

5.24.3.1 CairoEmblem* cairo_dock_make_emblem (const gchar * clmageFile, lcon * plcon)

Create an emblem from an image, that suits the given icon and container. If the image is given by its sole name, it is searched inside the current theme root folder.

Parameters

clmageFile	an image.
plcon	an icon.

Returns

the newly allocated emblem.

5.24.3.2 CairoEmblem* cairo_dock_make_emblem_from_surface (cairo_surface_t * pSurface, int iSurfaceWidth, int iSurfaceHeight, Icon * plcon)

Create an emblem from an existing surface. The surface is appropriated by the emblem, so if you free it with cairo_dock_free_emblem, it will also free the surface. Use g_free to destroy the emblem if you don't want the surface to be destroyed with.

pSurface	a surface.
iSur-	width of the surface, 0 means it has the same width as the icon.
faceWidth	

iSurface-	height of the surface, 0 means it has the same height as the icon.
Height	
plcon	an icon.

Returns

the newly allocated emblem.

5.24.3.3 CairoEmblem* cairo_dock_make_emblem_from_texture (GLuint *iTexture*, Icon * plcon)

Create an emblem from an existing texture. The texture is appropriated by the emblem, so if you free it with cairo_dock_free_emblem, it will also free the texture. Use g_free to destroy the emblem if you don't want the texture to be destroyed with.

Parameters

iTexture	a texture.
plcon	an icon.

Returns

the newly allocated emblem.

5.24.3.4 void cairo_dock_free_emblem (CairoEmblem * pEmblem)

Destroy an emblem and all its allocated ressources.

Parameters

pEmblem	the emblem

5.24.3.5 void cairo_dock_draw_emblem_on_icon (CairoEmblem * pEmblem, Icon * plcon, CairoContainer * pContainer)

Permanently draw an emblem on an icon.

Parameters

pEmblem	the emblem
plcon	an icon
pContainer	its container, or NULL if the icon is not yet inside a container

5.25 cairo-dock-file-manager.h File Reference

Data Structures

struct CairoDockDesktopEnvBackend

Definition of the Desktop Environment backend.

Enumerations

enum CairoDockDesktopEnv

Type of available Desktop Environments.

enum CairoDockFMEventType

Type of events that can occur to a file.

enum CairoDockFMSortType

Type of sorting available on files.

Functions

- void cairo_dock_fm_register_vfs_backend (CairoDockDesktopEnvBackend *pVFSBackend)
- 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 *bIsDirectory, 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, CairoDockFM-MountCallback pCallback, gpointer user_data)
- gboolean cairo_dock_fm_unmount_full (const gchar *cURI, int iVolumeID, CairoDockFM-MountCallback pCallback, gpointer user_data)
- gchar * cairo_dock_fm_is_mounted (const gchar *cURI, gboolean *blsMounted)
- gboolean cairo_dock_fm_can_eject (const gchar *cURI)
- gboolean cairo dock fm eject drive (const gchar *cURI)
- gboolean cairo dock fm delete file (const gchar *cURI, gboolean bNoTrash)
- gboolean cairo_dock_fm_rename_file (const gchar *cOldURI, const gchar *cNewName)
- gboolean cairo_dock_fm_move_file (const gchar *cURI, const gchar *cDirectoryURI)
- gboolean cairo_dock_fm_create_file (const gchar *cURI, gboolean bDirectory)
- GList * cairo_dock_fm_list_apps_for_file (const gchar *cURI)
- · gboolean cairo dock fm empty trash (void)

- gchar * cairo dock fm get trash path (const gchar *cNearURI, gchar **cFileInfoPath)
- gchar * cairo_dock_fm_get_desktop_path (void)
- gboolean cairo_dock_fm_logout (void)
- gboolean cairo_dock_fm_shutdown (void)
- gboolean cairo_dock_fm_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, CairoContainer *pContainer, CairoDockFMSortType iFileSortType)
- int cairo dock get file size (const gchar *cFilePath)

5.25.1 Detailed Description

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

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

5.25.2 Function Documentation

5.25.2.1 void cairo_dock_fm_register_vfs_backend (CairoDockDesktopEnvBackend * pVFSBackend)

Register a environment backend, overwriting any previous backend.

5.25.2.2 GList* cairo_dock_fm_list_directory (const gchar * cURI, CairoDockFMSortType g_fm_iSortType, int iNewlconsType, gboolean bListHiddenFiles, int iNbMaxFiles, gchar ** cFullURI)

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

5.25.2.3 gsize cairo_dock_fm_measure_diretory (const gchar * cBaseURI, gint iCountType, gboolean bRecursive, gint * pCancel)

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

5.25.2.4 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.

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

Get some properties about a file.

5.25.2.6 gboolean cairo_dock_fm_launch_uri (const gchar * cURI)

Open a file with the default application.

5.25.2.7 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.

5.25.2.8 gboolean cairo_dock_fm_remove_monitor_full (const gchar * cURI, gboolean bDirectory, const gchar * cMountedURI)

Remove a monitor on an URI.

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

Mount a point.

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

Unmount a point.

5.25.2.11 gchar* cairo_dock_fm_is_mounted (const gchar * cURI, gboolean * blsMounted)

Say if a point is currently mounted.

5.25.2.12 gboolean cairo_dock_fm_can_eject (const gchar * cURI)

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

5.25.2.13 gboolean cairo_dock_fm_eject_drive (const gchar * cURI)

Eject a drive, like a CD player.

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```
5.25.2.14 gboolean cairo_dock_fm_delete_file ( const gchar * cURI, gboolean bNoTrash )
Delete a file.
5.25.2.15 gboolean cairo_dock_fm_rename_file ( const gchar * cOldURI, const gchar *
          cNewName )
Rename a file.
5.25.2.16 gboolean cairo_dock_fm_move_file ( const gchar * cURI, const gchar * cDirectoryURI
Move a file.
5.25.2.17 gboolean cairo_dock_fm_create_file ( const gchar * cURI, gboolean bDirectory )
Create a new file.
5.25.2.18 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}.
5.25.2.19 gboolean cairo_dock_fm_empty_trash ( void )
Empty the Trash.
5.25.2.20 gchar* cairo_dock_fm_get_trash_path ( const gchar * cNearURI, gchar **
          cFileInfoPath )
Get the path to the Trash.
5.25.2.21 gchar* cairo_dock_fm_get_desktop_path ( void )
Get the path to the Desktop.
5.25.2.22 gboolean cairo_dock_fm_logout ( void )
Raise the logout panel.
5.25.2.23 gboolean cairo_dock_fm_shutdown ( void )
Raise the shutdown panel.
```

5.25.2.24 gboolean cairo_dock_fm_lock_screen (void)

Lock the screen.

5.25.2.25 gboolean cairo_dock_fm_setup_time (void)

Raise the panel to configure the time.

5.25.2.26 gboolean cairo_dock_fm_show_system_monitor (void)

Raise the default system monitor.

5.25.2.27 Icon* cairo_dock_fm_create_icon_from_URI (const gchar * cURI, CairoContainer * pContainer, CairoDockFMSortType iFileSortType)

Create an Icon representing a given URI.

5.25.2.28 int cairo_dock_get_file_size (const gchar * cFilePath)

Get the size of a local file.

Parameters

cFilePath path of a file on the hard disk.

Returns

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

5.26 cairo-dock-gauge.h File Reference

Typedefs

typedef struct _CairoGaugeAttribute CairoGaugeAttribute
 Attributes of a Gauge.

5.26.1 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.

5.27 cairo-dock-graph.h File Reference

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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.
```

5.27.1 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.

5.27.2 Enumeration Type Documentation

5.27.2.1 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.
```

5.28 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 THEME LIST ENTRY,
 CAIRO_DOCK_WIDGET_THEME_SELECTOR,
 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_ICON_THEME_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_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,
```

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```
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_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.

5.28.1 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 CairoDockGUIWidgetType 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 apppearance one, suffix the widget character with a '+'. Thus, keys not marked with a '+' won't be loaded when the user loads a theme, except if he forces it.

After the widget character and its suffix, some widget accept a list of values. For instance, a spinbutton can have a min and a max limits, a list can have pre-defined elements, etc. Such values are set between '[' and ']' brackets, and separated by ';' inside.

After that, let a blank to start the widget description. It will appear on the left of the widget; description must be short enough to fit the config panel width.

You can complete this description with a tooltip. To do that, on a new comment line, add some text between '{' and '}' brackets. Tooltips appear above the widget when you let the mouse over it for \sim 1 second. They can be as long as you want. Use '

5.28.2 Enumeration Type Documentation

5.28.2.1 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 Widthx-Height
- 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_THEME_LIST_ENTRY** same but with a combo-entry to let the user enter any text.
- **CAIRO_DOCK_WIDGET_THEME_SELECTOR** list of dock themes, sortable by name, rating, and sobriety.
- 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_ICON_THEME_LIST list of installed icon themes.

^{&#}x27; to insert new lines inside the tooltip.

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_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 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.

5.29 cairo-dock-gui-manager.h File Reference

Data Structures

struct CairoDockGuiBackend

Definition of the GUI interface for modules.

Defines

- #define cairo_dock_reload_current_module_widget(pModuleInstance)
- #define cairo_dock_build_generic_gui(cConfFilePath, cGettextDomain, cTitle, iWidth, iHeight, pAction, pUserData, pFreeUserData)

Typedefs

typedef gboolean(* CairoDockApplyConfigFunc)(gpointer data)

Definition of the callback called when the user apply the config panel.

Functions

- CairoDockGroupKeyWidget * cairo_dock_get_group_key_widget_from_name (CairoDock-ModuleInstance *pModuleInstance, const gchar *cGroupName, const gchar *cKeyName)
- GtkWidget * cairo_dock_get_widget_from_name (CairoDockModuleInstance *pModuleInstance, const gchar *cGroupName, const gchar *cKeyName)
- 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
- void GtkWidget * cairo_dock_build_generic_gui_window (const gchar *cTitle, int iWidth, int iHeight, CairoDockApplyConfigFunc pAction, gpointer pUserData, GFree-Func pFreeUserData)
- void cairo_dock_reload_generic_gui (GtkWidget *pWindow)

5.29.1 Detailed Description

This class provides useful functions to build config panels from keyfiles.

GUIs are built from a .conf file; .conf files are normal group/key files, but with some special indications in the comments. Each key will be represented by a pre-defined widget, that is defined by the first caracter of its comment. The comment also contains a description of the key, and an optionnal tooltip. See cairo-dock-gui-factory.h for the list of pre-defined widgets and a short explanation on how to use them inside a conf file. The file 'cairo-dock.conf' can be an useful example.

The class defines the interface that a backend to the main GUI of Cairo-Dock should implement. It also provides a useful function to easily build a window from a conf file: cairo_dock_build_generic_gui

5.29.2 Define Documentation

5.29.2.1 #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

plnstance	an instance of a module.
-----------	--------------------------

5.29.2.2 #define cairo_dock_build_generic_gui(cConfFilePath, cGettextDomain, cTitle, iWidth, iHeight, pAction, pUserData, pFreeUserData)

Load a conf file into a generic window, that contains 2 buttons apply and quit, and a statusbar. If no callback is provided, the window is blocking, until the user press one of the button; in this case, TRUE is returned if ok was pressed.

cConf-	conf file to load into the window.
FilePath	
cGettextDo-	translation domain.
main	
cTitle	title to set to the window.
iWidth	width of the window.
iHeight	height of the window.
pAction	callback to be called when the apply button is pressed, or NULL.
pUserData	data passed to the previous callback, or NULL.
pFreeUser-	callback called when the window is destroyed, to free the previous data, or
Data	NULL.

Returns

the new window.

5.29.3 Function Documentation

Retrieve the group-key widget in the current config panel, corresponding to the (group,key) pair in its conf file.

Parameters

cGroup- Name	name of the group in the conf file.
cKeyName	name of the key in the conf file.

Returns

the group-key widget that match the group and key, or NULL if none was found.

5.29.3.2 GtkWidget* cairo_dock_get_widget_from_name (CairoDockModuleInstance * pModuleInstance, const gchar * cGroupName, const gchar * cKeyName)

A mere wrapper around the previous function, that returns directly the GTK widget corresponding to the (group,key). Note that empty widgets will return NULL, so you can't you can't distinguish between an empty widget and an inexisant widget.

Parameters

cGroup- Name	name of the group in the conf file.
cKeyName	name of the key in the conf file.

Returns

the widget that match the group and key, or NULL if the widget is empty or if none was found.

5.29.3.3 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 will be used.

pWindow	window where the message should be displayed, or NULL to target the con-
	fig panel.
cMessage	the message.

5.29.3.4 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 will be used.

Parameters

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

5.29.3.5 void GtkWidget* cairo_dock_build_generic_gui_window (const gchar * cTitle, int iWidth, int iHeight, CairoDockApplyConfigFunc pAction, gpointer pUserData, GFreeFunc pFreeUserData)

Build a generic GUI window, that contains 2 buttons apply and quit, and a statusbar.

Parameters

cTitle	title to set to the window.
iWidth	width of the window.
iHeight	height of the window.
pAction	callback to be called when the apply button is pressed, or NULL.
pUserData	data passed to the previous callback, or NULL.
pFreeUser-	callback called when the window is destroyed, to free the previous data, or
Data	NULL.

Returns

the new window.

5.29.3.6 void cairo_dock_reload_generic_gui (GtkWidget * pWindow)

Reload a generic window built upon a conf file, by parsing again the conf file.

pWindow	the window.

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

5.30.1 Detailed Description

This class implements the rendering interface for hiding docks.

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

5.31.1 Detailed Description

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

5.32 cairo-dock-icon-facility.h File Reference

Defines

- #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)
- #define cairo dock set icon always visible(icon, bAlwaysVisible)
- #define cairo_dock_remove_quick_info(plcon)

Functions

- CairoDockIconGroup cairo_dock_get_icon_type (Icon *icon)
- int cairo_dock_compare_icons_order (lcon *icon1, lcon *icon2)
- int cairo_dock_compare_icons_name (lcon *icon1, lcon *icon2)
- int cairo_dock_compare_icons_extension (lcon *icon1, lcon *icon2)
- GList * cairo_dock_sort_icons_by_order (GList *plconList)
- GList * cairo_dock_sort_icons_by_name (GList *plconList)
- lcon * cairo_dock_get_first_icon (GList *plconList)
- Icon * cairo_dock_get_last_icon (GList *plconList)
- lcon * cairo_dock_get_first_icon_of_group (GList *plconList, CairoDocklconGroup iGroup)
- lcon * cairo_dock_get_last_icon_of_group (GList *plconList, CairoDocklconGroup iGroup)
- lcon * cairo_dock_get_first_icon_of_order (GList *plconList, CairoDocklconGroup iGroup)
- Icon * cairo_dock_get_last_icon_of_order (GList *plconList, CairoDockIconGroup iGroup)

- lcon * cairo_dock_get_pointed_icon (GList *plconList)
- Icon * cairo_dock_get_next_icon (GList *plconList, Icon *plcon)
- lcon * cairo_dock_get_previous_icon (GList *plconList, lcon *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)
- lcon * cairo_dock_get_icon_with_name (GList *plconList, const gchar *cName)
- lcon * cairo_dock_get_icon_with_subdock (GList *plconList, CairoDock *pSubDock)
- Icon * cairo_dock_get_icon_with_module (GList *plconList, CairoDockModule *pModule)
- void cairo_dock_get_icon_extent (lcon *plcon, int *iWidth, int *iHeight)
- void cairo_dock_get_current_icon_size (Icon *pIcon, CairoContainer *pContainer, double *fSizeX, double *fSizeY)
- void cairo_dock_compute_icon_area (lcon *icon, CairoContainer *pContainer, GdkRectangle *pArea)
- Icon * cairo_dock_foreach_icons_of_type (GList *plconList, CairoDocklconGroup iGroup, CairoDockForeachIconFunc pFuntion, gpointer data)
- void cairo_dock_update_icon_s_container_name (Icon *icon, const gchar *cNewParentDockName)
- void cairo_dock_set_icon_name (const gchar *clconName, lcon *plcon, Cairo-Container *pContainer)
- void cairo_dock_set_icon_name_printf (Icon *pIcon, CairoContainer *pContainer, const gchar *cIconNameFormat,...) G_GNUC_PRINTF(3
- void void cairo_dock_set_quick_info (lcon *plcon, CairoContainer *pContainer, const gchar *cQuickInfo)
- void cairo_dock_set_quick_info_printf (Icon *pIcon, CairoContainer *pContainer, const gchar *cQuickInfoFormat,...) G_GNUC_PRINTF(3

5.32.1 Detailed Description

This class provides utility functions on Icons.

5.32.2 Define Documentation

5.32.2.1 #define cairo_dock_icon_is_being_inserted(icon)

Say whether an icon is currently being inserted.

5.32.2.2 #define cairo_dock_icon_is_being_removed(icon)

Say whether an icon is currently being removed.

5.32.2.3 #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.

5.32.2.4 #define cairo_dock_get_next_element(ic, list)

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

Parameters

ic	the current element.
list	a list.

Returns

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

5.32.2.5 #define cairo_dock_get_previous_element(ic, list)

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

Parameters

ic	the current element.
list	a list.

Returns

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

5.32.2.6 #define cairo_dock_set_icon_static(icon)

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

Parameters

icon	an icon.

5.32.2.7 #define cairo_dock_set_icon_always_visible(icon, bAlwaysVisible)

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

Parameters

icon	an icon.
bAlwaysVisi-	whether the icon is always visible or not.
ble	

5.32.2.8 #define cairo_dock_remove_quick_info(plcon)

Clear the quick-info of an icon.

Parameters

plcon	the icon.	

5.32.3 Function Documentation

5.32.3.1 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

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

Returns

the type of the icon.

5.32.3.2 int cairo_dock_compare_icons_order (lcon * icon1, lcon * icon2)

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

Parameters

ico	an ico	1.
ico	2 anothe	er icon.

Returns

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

5.32.3.3 int cairo_dock_compare_icons_name (lcon * icon1, lcon * icon2)

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

Parameters

icon1	an icon.
icon2	another icon.

Returns

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

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

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

Parameters

icon1	an icon.
icon2	another icon.

Returns

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

 $5.32.3.5 \quad \textbf{GList}* \ \textbf{cairo_dock_sort_icons_by_order} \ (\ \ \textbf{GList}* \ \textbf{\textit{plconList}} \)$

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

Parameters

plconList	a list of icons.	

Returns

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

5.32.3.6 GList* cairo_dock_sort_icons_by_name (GList* plconList)

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

Parameters

plconList a list of icons.	
----------------------------	--

Returns

the sorted list. Elements are the same as the initial list, only their order has changed. Icon's orders are updated to reflect the new order.

5.32.3.7 Icon* cairo_dock_get_first_icon (GList * plconList)

Get the first icon of a list of icons.

plconList	a list of icons.

Returns

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

Get the last icon of a list of icons.

Parameters

plconList	a list of icons.

Returns

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

5.32.3.9 Icon* cairo_dock_get_first_icon_of_group (GList * plconList, CairoDockIconGroup iGroup)

Get the first icon of a given group.

Parameters

plconList	a list of icons.
iGroup	the group of icon.

Returns

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

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

Get the last icon of a given group.

Parameters

plconList	a list of icons.
iGroup	the group of icon.

Returns

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

5.32.3.11 Icon* cairo_dock_get_first_icon_of_order (GList * plconList, CairoDocklconGroup iGroup)

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

Parameters

plconList	a list of icons.
iGroup	a group of icon.

Returns

the first found icon, or NULL if none matches.

5.32.3.12 Icon* cairo_dock_get_last_icon_of_order (GList * plconList, CairoDocklconGroup iGroup)

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

Parameters

plconList	a list of icons.
iGroup	a group of icon.

Returns

the last found icon, or NULL if none matches.

5.32.3.13 Icon* cairo_dock_get_pointed_icon (GList* plconList)

Get the currently pointed icon in a list of icons.

Parameters

plconList	a list of icons.

Returns

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

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

Parameters

plconList	a list of icons.
plcon	an icon in the list.

Returns

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

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

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

Parameters

plconList	a list of icons.
plcon	an icon in the list.

Returns

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

5.32.3.16 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

plconList	a list of icons.
cCommand	the command.

Returns

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

5.32.3.17 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

plconList	a list of icons.
cBaseURI	the URI.

Returns

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

5.32.3.18 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

plconList	a list of icons.
cName	the name.

Returns

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

5.32.3.19 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

plconList	a list of icons.
pSubDock	a sub-dock.

Returns

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

5.32.3.20 Icon* cairo_dock_get_icon_with_module (GList * plconList, CairoDockModule * pModule)

Search the icon of a given module in a list of icons.

Parameters

plconList	a list of icons.
pModule	the module.

Returns

the first icon which has an instance of the given module, or NULL if no icon matches.

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

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

plcon	the icon.
iWidth	pointer to the width.
iHeight	pointer to the height.

5.32.3.22 void cairo_dock_get_current_icon_size (Icon * plcon, CairoContainer * 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

plcon	the icon
pContainer	its container
fSizeX	pointer to the X size (horizontal)
fSizeY	pointer to the Y size (vertical)

5.32.3.23 void cairo_dock_compute_icon_area (Icon * icon, CairoContainer * pContainer, GdkRectangle * pArea)

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

Parameters

icon	the icon
pContainer	its container
pArea	a rectangle filled with the zone used by the icon on its container.

5.32.3.24 Icon* cairo_dock_foreach_icons_of_type (GList * plconList, CairoDockIconGroup iGroup, CairoDockForeachIconFunc pFuntion, gpointer data)

Run an action on all the icons of a given group. The action can even destroy or remove the icon from the list.

Parameters

plconList	a list of icons.
iGroup	the group.
pFuntion	the callback.
data	data passed as a parameter of the callback.

Returns

the first automatic separator with another group, or NULL if there is none.

5.32.3.25 void cairo_dock_update_icon_s_container_name (Icon * icon, const gchar * cNewParentDockName)

Update the container's name of an icon with the name of a dock. In the case of a launcher or an applet, the conf file is updated too.

Parameters

icon	an icon.
cNewParent-	the name of its new dock.
DockName	

5.32.3.26 void cairo_dock_set_icon_name (const gchar * clconName, lcon * plcon, CairoContainer * pContainer)

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

clconName	the new label of the icon. You can even pass plcon->cName.
plcon	the icon.
pContainer	the container of the icon.

5.32.3.27 void cairo_dock_set_icon_name_printf (Icon * plcon, CairoContainer * pContainer, const gchar * clconNameFormat, ...)

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

Parameters

plcon	the icon.
pContainer	the container of the icon.
clconName-	the new label of the icon, in a 'printf' way.
Format	
	data to be inserted into the string.

5.32.3.28 void void cairo_dock_set_quick_info (Icon * plcon, CairoContainer * pContainer, const gchar * cQuickInfo)

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

plcon	the icon.
pContainer	the container of the icon.
cQuickInfo	the text of the quick-info.

5.32.3.29 void cairo_dock_set_quick_info_printf (Icon * plcon, CairoContainer * pContainer, const gchar * cQuickInfoFormat, ...)

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

Parameters

plcon	the icon.
pContainer	the container of the icon.
cQuickInfo-	the text of the quick-info, in a 'printf' way.
Format	
	data to be inserted into the string.

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

Data Structures

• struct _lconInterface

Icon's interface.

• struct _lcon

Definition of an Icon.

• struct _CairolconContainerRenderer

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

Defines

- #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 CairoDockIconTrueType

Definition of the type of icons.

enum CairoDockIconGroup

Definition of the groups of icons.

• enum CairoDockAnimationState

Animation state of an icon, sorted by priority.

Functions

- Icon * cairo_dock_new_icon (void)
- void cairo_dock_load_icon_image (Icon *icon, CairoContainer *pContainer)
- void cairo_dock_load_icon_text (Icon *icon, CairoDockLabelDescription *pTextDescription)
- void cairo_dock_load_icon_quickinfo (Icon *icon, CairoDockLabelDescription *pTextDescription, double fMaxScale)
- void cairo_dock_load_icon_buffers (Icon *plcon, CairoContainer *pContainer)

5.33.1 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.

5.33.2 Define Documentation

5.33.2.1 #define CAIRO_DOCK_IS_APPLI(icon)

TRUE if the icon holds a window.

Parameters

icon	an icon.

5.33.2.2 #define CAIRO_DOCK_IS_APPLET(icon)

TRUE if the icon holds an instance of a module.

:	an iaan
ICON	an icon.

5.33.2.3 #define CAIRO_DOCK_IS_MULTI_APPLI(icon)

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

Parameters

icon	an icon.

5.33.2.4 #define CAIRO_DOCK_IS_AUTOMATIC_SEPARATOR(icon)

TRUE if the icon is an automatic separator.

Parameters

ican	(
icon a	an icon.
10011 4	211 100111

5.33.2.5 #define CAIRO_DOCK_IS_USER_SEPARATOR(icon)

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

Parameters

icon	an icon.
10011	an ioon.

5.33.2.6 #define CAIRO_DOCK_IS_NORMAL_APPLI(icon)

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

Parameters

icon	an icon.

5.33.2.7 #define CAIRO_DOCK_IS_DETACHABLE_APPLET(icon)

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

Parameters

icon an icon.

5.33.3 Function Documentation

5.33.3.1 Icon* cairo_dock_new_icon (void)

Create an empty icon.

Returns

the newly allocated icon object.

5.33.3.2 void cairo_dock_load_icon_image (Icon * icon, CairoContainer * 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

icon	the icon.
pContainer	its container.

5.33.3.3 void cairo_dock_load_icon_text (Icon * icon, CairoDockLabelDescription * pTextDescription)

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

Parameters

icon	the icon.
pTextDe-	desctiption of the text rendering.
scription	

5.33.3.4 void cairo_dock_load_icon_quickinfo (Icon * icon, CairoDockLabelDescription * pTextDescription, double fMaxScale)

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

Parameters

icon	the icon.
pTextDe-	description of the text rendering.
scription	
fMaxScale	maximum zoom.

5.33.3.5 void cairo_dock_load_icon_buffers (Icon * plcon, CairoContainer * 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

plcon	the icon.
pContainer	its container.

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

Enumerations

```
    enum CairolconNotifications {
        NOTIFICATION_UNFOLD_SUBDOCK,
        NOTIFICATION_UPDATE_ICON,
        NOTIFICATION_UPDATE_ICON_SLOW,
        NOTIFICATION_PRE_RENDER_ICON,
        NOTIFICATION_RENDER_ICON,
        NOTIFICATION_STOP_ICON,
        NOTIFICATION_REQUEST_ICON_ANIMATION }
        signals
```

Functions

- void cairo dock free icon (Icon *icon)
- void cairo_dock_foreach_icons (CairoDockForeachIconFunc pFunction, gpointer pUserData)
- gchar * cairo_dock_search_icon_s_path (const gchar *cFileName)

5.34.1 Detailed Description

This class manages the icons parameters and their associated ressources.

Specialized Icons are handled by the corresponding manager.

5.34.2 Enumeration Type Documentation

5.34.2.1 enum CairolconNotifications

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.

5.34.3 Function Documentation

5.34.3.1 void cairo_dock_free_icon (lcon * icon)

Terminate an Icon and free all its allocated ressources, except its sub-dock.

Parameters

icon	the icon to destroy.
------	----------------------

5.34.3.2 void cairo_dock_foreach_icons (CairoDockForeachlconFunc *pFunction*, gpointer *pUserData*)

Execute an action on all icons.

Parameters

pFunction	the action.
pUserData	data passed to the callback.

5.34.3.3 gchar* cairo_dock_search_icon_s_path (const gchar * cFileName)

Search the path of an icon into the defined icons themes. It also handles the ' \sim ' caracter in paths.

Parameters

cFileName	name of the icon file.
-----------	------------------------

Returns

the complete path of the icon, or NULL if not found.

5.35 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.

Defines

- #define cairo_dock_strings_differ(s1, s2)
- #define cairo_dock_colors_rvb_differ(c1, c2)
- #define cairo dock colors differ(c1, c2)
- #define cairo_dock_load_image_buffer(plmage, clmageFile, iWidth, iHeight, iLoad-Modifier)

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 iLoad-Modifier, 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)

5.35.1 Detailed Description

This class defines a simple image loader interface. It also handles the main image buffers of the dock. 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 immage buffer. Use cairo_dock_free_image_buffer to destroy it or cairo_dock_unload_image_buffer to unload and reset it to 0. If you just want to load an image into a mere cairo_surface, use the functions of the surface-factory.

5.35.2 Define Documentation

5.35.2.1 #define cairo_dock_strings_differ(s1, s2)

Say if 2 strings differ, taking into account NULL strings.

5.35.2.2 #define cairo_dock_colors_rvb_differ(c1, c2)

Say if 2 RGBA colors differ.

5.35.2.3 #define cairo_dock_colors_differ(c1, c2)

Say if 2 RGB colors differ.

5.35.2.4 #define cairo_dock_load_image_buffer(plmage, clmageFile, iWidth, iHeight, iLoadModifier)

Load an image into an ImageBuffer. If the image is given by its sole name, it is taken in the root folder of the current theme.

Parameters

plmage	an ImageBuffer.
clmageFile	name of a file
iWidth	width it should be loaded. The resulting width can be different depending on the modifier.
iHeight	height it should be loaded. The resulting width can be different depending on the modifier.
iLoadModi-	modifier
fier	

5.35.3 Function Documentation

5.35.3.1 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

clmageFile a file name or path. If it's already a path, it will just be duplicated.

Returns

the path of the file, or NULL if it has not been found.

5.35.3.2 void cairo_dock_load_image_buffer_full (CairoDockImageBuffer * plmage, 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.

plmage	an ImageBuffer.
clmageFile	name of a file
iWidth	width it should be loaded.
iHeight	height it should be loaded.
iLoadModi-	modifier
fier	
fAlpha	transparency (1:fully opaque)

5.35.3.3 void cairo_dock_load_image_buffer_from_surface (CairoDockImageBuffer * plmage, cairo_surface_t * pSurface, int iWidth, int iHeight)

Load a surface into an ImageBuffer.

Parameters

plmage	an ImageBuffer.
pSurface	a cairo surface
iWidth	width of the surface
iHeight	height of the surface

5.35.3.4 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

clmageFile	name of a file
iWidth	width it should be loaded.
iHeight	height it should be loaded.
iLoadModi-	modifier
fier	

Returns

a newly allocated ImageBuffer.

5.35.3.5 void cairo_dock_unload_image_buffer (CairoDockImageBuffer * plmage)

Reset an ImageBuffer's ressources. It can be used to load another image then.

Parameters

plmage an ImageBuffer.	
------------------------	--

5.35.3.6 void cairo_dock_free_image_buffer (CairoDockImageBuffer * plmage)

Reset and free an ImageBuffer.

plmage	an ImageBuffer.

5.36 cairo-dock-indicator-manager.h File Reference

5.36.1 Detailed Description

This class manages the indicators.

5.37 cairo-dock-keybinder.h File Reference

Typedefs

• typedef void(* CDBindkeyHandler)(const char *keystring, gpointer user_data)

Definition of a callback, called when a shortcut is pressed by the user.

Functions

- void cd_keybinder_stop (void)
 - merge with init
- gboolean cd_keybinder_bind (const char *keystring, CDBindkeyHandler handler, gpointer user_data)

useless

- void cd_keybinder_unbind (const char *keystring, CDBindkeyHandler handler)
- gboolean cairo_dock_simulate_key_sequence (gchar *cKeyString)

5.37.1 Detailed Description

This class contains functions to easily bind a keyboard shortcut to an action. These shortcuts are defined globally in your session, that is to say they will be effective whatever window has the focus. Shortcuts are of the form <alt>F1 or <ctrl><shift>s.

You bind an action to a shortcut with cd_keybinder_bind, and unbind it with cd_keybinder_unbind.

5.37.2 Function Documentation

5.37.2.1 gboolean cd_keybinder_bind (const char * keystring, CDBindkeyHandler handler, gpointer user_data)

useless

Bind a shortcut to an action. Unbind it when you don't want it anymore, or when 'user_-data' is freed.

Parameters

keystring a shortcu		a shortcut.
	handler	callback to register for this shortcut.
	user_data	data passed to the callback.

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TRUE if success.

5.37.2.2 void cd_keybinder_unbind (const char * keystring, CDBindkeyHandler handler)

Unbind a shortcut to an action.

Parameters

keystring	a shortcut.
handler	the callback that was registered for this shortcut.

5.37.2.3 gboolean cairo_dock_simulate_key_sequence (gchar * cKeyString)

Trigger the given shortcut. It will be as if the user effectively pressed the shortcut on its keyboard. It uses the 'XTest' X extension.

Parameters

cKeyString	a shortcut.		

Returns

TRUE if success.

5.38 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 ildentifier)
- 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, CairoDock-GUIWidgetType 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)

5.38.1 Detailed Description

This class provides useful functions to manipulate the conf files of Cairo-Dock, which are classic group/key pair files.

5.38.2 Function Documentation

```
5.38.2.1 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.

```
5.38.2.2 void cairo_dock_write_keys_to_file ( GKeyFile * pKeyFile, const gchar * cConfFilePath )
```

Write a conf file on the disk.

```
5.38.2.3 void cairo_dock_merge_conf_files ( const gchar * cConfFilePath, gchar * cReplacementConfFilePath, gchar ildentifier )
```

Merge the values of a conf-file into another one. Keys are filtered by an identifier on the original conf-file.

Parameters

cConf-	an up-to-date conf-file with old values, that will be updated.
FilePath	
cReplace-	an old conf-file containing values we want to use
mentConf-	
FilePath	
ildentifier	a character to filter the keys, or 0.

5.38.2.4 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.

cConf-	path to the conf-file to update.
FilePath	
pKeyFile	a key-file with correct values, but old comments and possibly missing or old
	keys. It is not modified by the function.
cDefault-	a template conf-file.
ConfFilePath	
bUp-	whether to remove old keys (hidden and persistent) or not.
dateKeys	

5.38.2.5 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.

5.38.2.6 gboolean cairo_dock_conf_file_needs_update (GKeyFile * pKeyFile, const gchar * cVersion)

Say if a conf file's version mismatches a given version.

5.38.2.7 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.

5.38.2.8 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.

5.38.2.9 void cairo_dock_remove_group_key_from_conf_file (GKeyFile * pKeyFile, const gchar * cGroupName, const gchar * ckeyName)

Remove a key from a conf file.

5.39 cairo-dock-kwin-integration.h File Reference

5.39.1 Detailed Description

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

5.40 cairo-dock-launcher-factory.h File Reference

Functions

- gboolean cairo_dock_remove_version_from_string (gchar *cString)
- void cairo dock set launcher class (Icon *icon, const gchar *cStartupWMClass)
- CairoDocklconTrueType cairo_dock_load_icon_info_from_desktop_file (const gchar *cDesktopFileName, lcon *icon, gchar **cSubDockRendererName)

 G_GNUC_MALLOC lcon * cairo_dock_new_launcher_icon (const gchar *cDesktopFileName, gchar **cSubDockRendererName)

5.40.1 Detailed Description

 \ast This class handles the creation launcher icons, from the desktop files contained inside the 'launchers' folder. The files holding the information are common desktop files, with additionnal keys added by the dock on the launcher creation.

5.40.2 Function Documentation

5.40.2.1 gboolean cairo_dock_remove_version_from_string (gchar * cString)

Remove the version number from a string. Directly modifies the string.

Parameters

cString	a string.	

Returns

TRUE if a version has been removed.

5.40.2.2 void cairo_dock_set_launcher_class (Icon * icon, const gchar * cStartupWMClass)

Set the class of a launcher. You can safely free the paramater 'cStartupWMClass' after calling this function. This function is to be called on a launcher well defined (all other parameters should be already filled).

Parameters

icon	a launcher.
cStartup-	the class of the launcher defined in its .desktop file, or NULL. You can't
WMClass	expect the resulting class to be the one you provide, because this function
	makes a lot of guesses.

5.40.2.3 CairoDockIconTrueType cairo_dock_load_icon_info_from_desktop_file (const gchar * cDesktopFileName, Icon * icon, gchar ** cSubDockRendererName)

Read a desktop file and fetch all its data into an Icon.

	name or path of a desktop file. If it's a simple name, it will be taken in the
FileName	"launchers" folder of the current theme.
icon	the Icon to fill.

cSubDock-	filled with the renderer name of the sub-dock, if the icon will hold one.
Render-	
erName	

the type of the icon, guessed from the values of the desktop file.

5.40.2.4 G_GNUC_MALLOC Icon* cairo_dock_new_launcher_icon (const gchar * cDesktopFileName, gchar ** cSubDockRendererName)

Create an Icon from a given desktop file. The resulting icon can directly be used inside a container. Class inhibiting is handled.

Parameters

cDesktop-	name of the desktop file, present in the "launchers" folder of the current
FileName	theme.
cSubDock-	filled with the renderer name of the sub-dock, if the icon will hold one.
Render-	
erName	

Returns

the newly created icon.

5.41 cairo-dock-launcher-manager.h File Reference

Functions

- Icon * cairo_dock_create_icon_from_desktop_file (const gchar *cDesktopFileName)
- Icon * cairo_dock_create_dummy_launcher (gchar *cName, gchar *cFileName, gchar *cCommand, gchar *cQuickInfo, double fOrder)
- void cairo_dock_build_docks_tree_with_desktop_files (const gchar *cDirectory)
- void cairo_dock_reload_launcher (lcon *icon)

5.41.1 Detailed Description

* This class handles the creation, load and reload of launcher icons, from the desktop files contained inside the 'launchers' folder. The files holding the information are common desktop files, with additionnal keys added by the dock on the launcher creation.

5.41.2 Function Documentation

5.41.2.1 Icon* cairo_dock_create_icon_from_desktop_file (const gchar * cDesktopFileName)

Create an Icon from a given desktop file, and fill its buffers. The resulting icon can directly be used inside a container. Class inhibiting is handled.

Parameters

cDesktop-	name c	of the	desktop	file,	present	in	the	"launchers"	folder	of	the	current
FileName	theme.											

Returns

the newly created icon.

5.41.2.2 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

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

Returns

the newly created icon.

5.41.2.3 void cairo_dock_build_docks_tree_with_desktop_files (const gchar * cDirectory)

Load a set of .desktop files that define icons, and build the corresponding tree of docks. All the icons are created and placed inside their dock, which is created if necessary.

Parameters

oDiroctory	a folder centaining come dealton files
Collectory	a folder containing some .desktop files.

5.41.2.4 void cairo_dock_reload_launcher (Icon * icon)

Reload completely a launcher. It handles all the side-effects like modifying the class, the sub-dock's view, the container, etc.

Parameters

icon the launcher lcon to reload.

5.42 cairo-dock-manager.h File Reference

5.42.1 Detailed Description

This class defines the Managers. Managers are the core of Cairo-Dock. A Manager is a set of parameters and an interface, and manages all the ressources associated to its functions.

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.

5.43 cairo-dock-module-factory.h File Reference

Data Structures

struct _CairoDockVisitCard

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

• struct _CairoDockModuleInterface

Definition of the interface of a module.

struct _CairoDockModuleInstance

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

• struct CairoDockModule

Definition of an external module.

Typedefs

 typedef gboolean(* CairoDockModulePreInit)(CairoDockVisitCard *pVisitCard, CairoDockModuleInterface *pInterface)

Pre-init function of a module. Fills the visit card and the interface of a module.

Enumerations

• enum CairoDockModuleCategory

Categories a module can be in.

Functions

- void cairo_dock_deinstanciate_module (CairoDockModuleInstance *pInstance)
- void cairo_dock_reload_module_instance (CairoDockModuleInstance *pInstance, gboolean bReloadAppletConf)
- void cairo_dock_activate_module (CairoDockModule *module, GError **erreur)
- void cairo dock deactivate module (CairoDockModule *module)
- void cairo_dock_reload_module (CairoDockModule *module, gboolean bReload-AppletConf)

5.43.1 Detailed Description

This class defines 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 datas.

Modules can be instanciated several times; each time they are, an instance is created. Each instance holds all a set of the 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 that has an icon is also called an applet.

5.43.2 Function Documentation

5.43.2.1 void cairo_dock_deinstanciate_module (CairoDockModuleInstance * plnstance)

Stop and free a module instance. If it was an applet, the icon is not destroyed (but is no more a valid applet). If it was in a desklet, the desklet is destroyed.

Parameters

pInstance	the instance to stop.

5.43.2.2 void cairo_dock_reload_module_instance (CairoDockModuleInstance * pInstance, gboolean bReloadAppletConf)

Reload an instance of a module.

plnstance	the instance to reload
bReloadAp-	TRUE to reload the config of the instance before reloading it.
pletConf	

5.43.2.3 void cairo_dock_activate_module (CairoDockModule * module, GError ** erreur)

Create and initialize all the instances of a module.

Parameters

module	the module to activate.
erreur	error set if something bad happens.

5.43.2.4 void cairo_dock_deactivate_module (CairoDockModule * module)

Stop and destroy all the instances of a module.

Parameters

	the mean during the plantation of the
module	the module to deactivate

5.43.2.5 void cairo_dock_reload_module (CairoDockModule * module, gboolean bReloadAppletConf)

Reload all the instances of a module.

Parameters

module	the module to reload
bReloadAp-	TRUE to reload the config of the instances before reloading them.
pletConf	

5.44 cairo-dock-module-manager.h File Reference

Functions

- CairoDockModule * cairo_dock_find_module_from_name (const gchar *cModuleName)
- CairoDockModule * cairo_dock_load_module (const gchar *cSoFilePath)
- void cairo_dock_load_modules_in_directory (const gchar *cModuleDirPath, GError **erreur)

5.44.1 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 datas.

Modules can be instanciated several times; each time they are, an instance is created. Each instance holds all a set of the 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 that has an icon is also called an applet.

5.44.2 Function Documentation

5.44.2.1 CairoDockModule* cairo_dock_find_module_from_name (const gchar * cModuleName)

Get the module which has a given name.

Parameters

cModule-	the unique name of the module.
Name	

Returns

the module, or NULL if not found.

5.44.2.2 CairoDockModule* cairo_dock_load_module (const gchar * cSoFilePath)

Load a module into the table of modules. The module is opened and its visit card and interface are retrieved.

Parameters

cSoFilePath	path to the .so file.

Returns

the newly allocated module.

5.44.2.3 void cairo_dock_load_modules_in_directory (const gchar * cModuleDirPath, GError ** erreur)

Load all the modules of a given folder. If the path is NULL, plug-ins are taken in the gldi install dir.

cMod-	path to the a folder containing .so files.
uleDirPath	
erreur	error set if something bad happens.

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5.45 cairo-dock-notifications.h File Reference

Defines

• #define CAIRO DOCK RUN FIRST

Use this in cairo_dock_register_notification_on_object to be called before the dock.

• #define CAIRO DOCK RUN AFTER

Use this in cairo_dock_register_notification_on_object to be called after the dock.

#define CAIRO DOCK INTERCEPT NOTIFICATION

Return this in your callback to prevent the other callbacks from being called after you.

#define CAIRO DOCK LET PASS NOTIFICATION

Return this in your callback to let pass the notification to the other callbacks after you.

#define cairo_dock_notify_on_object(pObject, iNotifType,...)

Typedefs

- typedef gboolean(* CairoDockNotificationFunc)(gpointer pUserData,...)
 Generic prototype of a notification callback.
- typedef gboolean(* CairoDockClickIconFunc)(gpointer pUserData, Icon *pIcon, CairoContainer *pContainer, int iState)

prototype of the callback to the CAIRO DOCK CLICK ICON notification.

 typedef gboolean(* CairoDockDoubleClickIconFunc)(gpointer pUserData, Icon *pIcon, CairoContainer *pContainer)

prototype of the callback to the CAIRO_DOCK_DOUBLE_CLICK_ICON notification.

 typedef gboolean(* CairoDockMiddleClickIconFunc)(gpointer pUserData, Icon *pIcon, CairoContainer *pContainer)

prototype of the callback to the CAIRO_DOCK_MIDDLE_CLICK_ICON notification.

 typedef gboolean(* CairoDockScrollIconFunc)(gpointer pUserData, Icon *pIcon, CairoContainer *pContainer, int iDirection)

prototype of the callback to the CAIRO_DOCK_SCROLL_ICON notification.

- typedef gboolean(* CairoDockBuildMenuFunc)(gpointer pUserData, Icon *pIcon, CairoContainer *pContainer, GtkMenu *pMenu)
 - prototype of the callback to the CAIRO_DOCK_BUILD_ICON_MENU notification.
- typedef gboolean(* CairoDockStartDragDataFunc)(gpointer pUserData, Cairo-Container *pContainer, gboolean *bStartAnimation)
 - prototype of the callback to the CAIRO_DOCK_START_DRAG_DATA notification.
- typedef gboolean(* CairoDockDropDataFunc)(gpointer pUserData, gchar *cData, lcon *plcon, double fPosition, CairoContainer *pContainer)
 - prototype of the callback to the CAIRO_DOCK_DROP_DATA notification.
- typedef gboolean(* CairoDockMouseMovedFunc)(gpointer pUserData, Cairo-Container *pContainer, gboolean *bStartAnimation)
 - prototype of the callback to the CAIRO_DOCK_MOUSE_MOVED notification.
- typedef gboolean(* CairoDockKeyPressedFunc)(gpointer pUserData, CairoDock
 *pDock, int keyval, int state, gchar *string)

- prototype of the callback to the CAIRO_DOCK_KEY_PRESSED notification.
- typedef gboolean(* CairoDockDesktopChangedFunc)(gpointer pUserData)
 prototype of the callback to the CAIRO DOCK DESKTOP CHANGED notification.
- typedef gboolean(* CairoDockWindowConfiguredFunc)(gpointer pUserData, XConfigureEvent *pXEvent)
 - prototype of the callback to the CAIRO_DOCK_WINDOW_CONFIGURED notification.
- typedef gboolean(* CairoDockScreenGeometryAlteredFunc)(gpointer pUserData)
 - prototype of the callback to the CAIRO_DOCK_SCREEN_GEOMETRY_ALTERED notification.
- typedef gboolean(* CairoDockWindowActivatedFunc)(gpointer pUserData, Window *Xid)
 - prototype of the callback to the CAIRO_DOCK_WINDOW_ACTIVATED notification.
- typedef gboolean(* CairoDockKeyboardStateChangedFunc)(gpointer pUserData, Window *Xid)
 - prototype of the callback to the CAIRO_DOCK_KBD_STATE_CHANGED notification.
- typedef gboolean(* CairoDockInsertRemovelconFunc)(gpointer pUserData, Icon *pIcon, CairoDock *pDock)
 - prototype of the callback to the CAIRO_DOCK_INSERT_ICON and CAIRO_DOCK_-REMOVE_ICON notifications.
- typedef gboolean(* CairoDockRequestAnimationFunc)(gpointer pUserData, Icon *pIcon, CairoDock *pDock, gchar *cAnimationName, gint iNbRounds)
 - prototype of the callback to the CAIRO_DOCK_REQUEST_ICON_ANIMATION notification
- typedef gboolean(* CairoDockEnterlconFunc)(gpointer pUserData, lcon *plcon, CairoDock *pDock, gboolean *bStartAnimation)
 - prototype of the callback to the CAIRO_DOCK_ENTER_ICON notification.
- typedef gboolean(* CairoDockUpdateIconFunc)(gpointer pUserData, Icon *pIcon, CairoDock *pDock, gboolean *bContinueAnimation)
 - prototype of the callback to the CAIRO_DOCK_UPDATE_ICON and CAIRO_DOCK_-UPDATE_ICON_SLOW notifications.
- typedef gboolean(* CairoDockPreRenderIconFunc)(gpointer pUserData, Icon *pIcon, CairoDock *pDock)
 - prototype of the callback to the CAIRO_DOCK_PRE_RENDER_ICON notification.
- typedef gboolean(* CairoDockRenderIconFunc)(gpointer pUserData, Icon *pIcon, CairoDock *pDock, gboolean *bHasBeenRendered, cairo_t *pCairoContext)
 prototype of the callback to the CAIRO DOCK RENDER ICON notification.
- typedef gboolean(* CairoDockStopIconFunc)(gpointer pUserData, Icon *pIcon) prototype of the callback to the CAIRO_DOCK_STOP_ICON notification.
- typedef gboolean(* CairoDockEnterContainerFunc)(gpointer pUserData, Cairo-Container *pContainer, gboolean *bStartAnimation)
 - prototype of the callback to the CAIRO_DOCK_ENTER_DOCK and CAIRO_DOCK_-ENTER_DESKLET notifications.
- typedef gboolean(* CairoDockUpdateContainerFunc)(gpointer pUserData, Cairo-Container *pContainer, gboolean *bContinueAnimation)

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prototype of the callback to the CAIRO_DOCK_UPDATE_DOCK, CAIRO_DOCK_UPDATE_DOCK_SLOW, CAIRO_DOCK_UPDATE_DESKLET, CAIRO_DOCK_UPDATE_DESKLET_SLOW, CAIRO_DOCK_UPDATE_DIALOG and CAIRO_DOCK_UPDATE_FLYING_CONTAINER notifications.

 typedef gboolean(* CairoDockRenderContainerFunc)(gpointer pUserData, Cairo-Container *pContainer, cairo_t *pCairoContext)

prototype of the callback to the CAIRO_DOCK_RENDER_DOCK, CAIRO_DOCK_RENDER_DESKLET, CAIRO_DOCK_RENDER_DIALOG, CAIRO_DOCK_RENDER_FLYING_CONTAINER notifications. 'pCairoContext' is NULL for an OpenGL rendering.

 typedef gboolean(* CairoDockStopContainerFunc)(gpointer pUserData, Cairo-Container *pContainer)

prototype of the callback to the CAIRO_DOCK_STOP_DOCK and CAIRO_DOCK_-STOP_DESKLET notifications.

 typedef gboolean(* CairoDockLeaveContainerFunc)(gpointer pUserData, Cairo-Container *pContainer, gboolean *bStartAnimation)

prototype of the callback to the CAIRO_DOCK_LEAVE_DOCK and CAIRO_DOCK_-LEAVE_DESKLET notifications.

Functions

- void cairo_dock_register_notification_on_object (gpointer pObject, CairoDockNotificationType iNotifType, CairoDockNotificationFunc pFunction, gboolean bRun-First, gpointer pUserData)
- void cairo_dock_remove_notification_func_on_object (gpointer pObject, CairoDockNotificationType iNotifType, CairoDockNotificationFunc pFunction, gpointer pUser-Data)

5.45.1 Detailed Description

This class defines the notification system. Each time an event occurs (like an icon being clicked), Cairo-Dock broadcasts the corresponding notification. Anybody that has registered to it will be called then. Common objects that hold notifications are Managers, Icons, and Containers (and their derivatives Docks, Desklets, Dialogs, Flyings).

5.45.2 Define Documentation

5.45.2.1 #define cairo_dock_notify_on_object(pObject, iNotifType, ...)

Broadcast a notification on a given object.

pObject	the object (Icon, Container, Manager).
iNotifType	type of the notification.
	parameters to be passed to the callbacks that has registerd to this notifica-
	tion.

whether the notification has been intercepted or not.

5.45.3 Function Documentation

5.45.3.1 void cairo_dock_register_notification_on_object (gpointer pObject, CairoDockNotificationType iNotifType, CairoDockNotificationFunc pFunction, gboolean bRunFirst, gpointer pUserData)

Register an action to be called when a given notification is broadcasted from a given object.

Parameters

pObject	the object (Icon, Container, Manager).
iNotifType	type of the notification.
pFunction	callback.
bRunFirst	CAIRO_DOCK_RUN_FIRST to be called before Cairo-Dock, CAIRO
	DOCK_RUN_AFTER to be called after.
pUserData	data to be passed as the first parameter of the callback.

5.45.3.2 void cairo_dock_remove_notification_func_on_object (gpointer pObject, CairoDockNotificationType iNotifType, CairoDockNotificationFunc pFunction, gpointer pUserData)

Remove a callback from the list of callbacks of a given object for a given notification and a given data.

Parameters

pObject	the object (Icon, Container, Manager) for which the action has been registered.
iNotifType	type of the notification.
pFunction	callback.
pUserData	data that was registerd with the callback.

5.46 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_bitmap_font (const gchar *cFontDescription, int first, int count)
- CairoDockGLFont * cairo_dock_load_textured_font (const gchar *cFontDescription, int first, int count)
- CairoDockGLFont * cairo_dock_load_textured_font_from_image (const gchar *cImagePath)
- void cairo_dock_free_gl_font (CairoDockGLFont *pFont)
- void cairo_dock_get_gl_text_extent (const gchar *cText, CairoDockGLFont *pFont, int *iWidth, int *iHeight)
- void cairo dock draw gl text (const guchar *cText, CairoDockGLFont *pFont)
- void cairo_dock_draw_gl_text_at_position (const guchar *cText, CairoDockGL-Font *pFont, int x, int y)
- void cairo_dock_draw_gl_text_in_area (const guchar *cText, CairoDockGLFont *pFont, int iWidth, int iHeight, gboolean bCentered)
- void cairo_dock_draw_gl_text_at_position_in_area (const guchar *cText, CairoDock-GLFont *pFont, int x, int y, int iWidth, int iHeight, gboolean bCentered)

5.46.1 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_bitmap_font to load a subset of any font into bitmaps (bitmaps are not influenced by the transformation matrix) 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.

5.46.2 Function Documentation

5.46.2.1 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.

cText	the text
cFontDe-	a description of the font, for instance "Monospace Bold 12"
scription	
pSource-	a cairo context, not altered by the function.
Context	
iWidth	a pointer that will be filled with the width of the texture.
iHeight	a pointer that will be filled with the height of the texture.

a newly allocated texture.

5.46.2.2 CairoDockGLFont* cairo_dock_load_bitmap_font (const gchar * cFontDescription, int first, int count)

Load a font into bitmaps. You can load any characters of font with this function. The drawback is that each character is a bitmap, that is to say you can't zoom them.

Parameters

cFontDe-	a description of the font, for instance "Monospace Bold 12"
scription	
first	first character to load.
count	number of characters to load.

Returns

a newly allocated opengl font.

5.46.2.3 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

cFontDe-	a description of the font, for instance "Monospace Bold 12"
scription	
first	first character to load.
count	number of characters to load.

Returns

a newly allocated opengl font.

5.46.2.4 CairoDockGLFont* cairo_dock_load_textured_font_from_image (const gchar * clmagePath)

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.

cImagePath path to the image.

a newly allocated opengl font.

5.46.2.5 void cairo_dock_free_gl_font (CairoDockGLFont * pFont)

Free an opengl font.

Parameters

pFont	the font.

5.46.2.6 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

cText	the text
pFont	the font.
iWidth	a pointer that will be filled with the width of the text.
iHeight	a pointer that will be filled with the height of the text.

5.46.2.7 void cairo_dock_draw_gl_text (const guchar * 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

cText	the text
pFont	the font.

5.46.2.8 void cairo_dock_draw_gl_text_at_position (const guchar * cText, CairoDockGLFont * pFont, int x, int y)

Like /ref cairo_dock_draw_gl_text but at a given position.

cText	the text
pFont	the font.
Х	x position of the left bottom corner of the text.
У	y position of the left bottom corner of the text.

5.46.2.9 void cairo_dock_draw_gl_text_in_area (const guchar * 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

cText	the text
pFont	the font.
iWidth	iWidth of the area.
iHeight	iHeight of the area
bCentered	whether the text is centered on the current position or not.

5.46.2.10 void cairo_dock_draw_gl_text_at_position_in_area (const guchar * cText, CairoDockGLFont * pFont, int x, int y, int iWidth, int iHeight, gboolean bCentered)

Like /ref cairo_dock_draw_gl_text_in_area and /ref cairo_dock_draw_gl_text_at_position.

Parameters

cText	the text
pFont	the font.
Х	x position of the left bottom corner of the text.
У	y position of the left bottom corner of the text.
iWidth	iWidth of the area.
iHeight	iHeight of the area
bCentered	whether the text is centered on the given position or not.

5.47 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 iNb-Points, 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)

5.47.1 Detailed Description

This class define OpenGL path, with similar functions as cairo. You create a path with cairo_dock_new_gl_path, then you add lines, curves or arcs to it. Once the path is defined, you can eigher stroke it with cairo_dock_stroke_gl_path or fill it with cairo_dock_fill_gl_path. You can fill a path with the current color or with a texture, in this case you must provide the dimension of the husk. To destroy the path, use cairo_dock_free_gl_path.

5.47.2 Function Documentation

5.47.2.1 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 abe to fill it with a texture, you can specify here the dimension of the path's husk.

Parameters

iNbVertices	maximum number of vertices the path will have
x0	x coordinate of the origin point
y0	y coordinate of the origin point
iWidth	width of the husk of the path.
iHeight	height of the husk of the path

Returns

a newly allocated path, with 1 point.

5.47.2.2 void cairo_dock_free_gl_path (CairoDockGLPath * pPath)

Destroy a path and free its allocated ressources.

Parameters

<i>pPath</i> the path	1.
-----------------------	----

5.47.2.3 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

pPai	h the path.
χ	x coordinate of the origin point
У	y coordinate of the origin point

5.47.2.4 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

pPath	the path.
iWidth	width of the hulk
iHeight	height of the hulk

5.47.2.5 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

pPath	the path.
X	x coordinate of the point
У	y coordinate of the point

5.47.2.6 void cairo_dock_gl_path_rel_line_to (CairoDockGLPath * pPath, GLfloat dx, GLfloat dy)

Add a line defined relatively to the current point.

Parameters

pPath	the path.
dx	horizontal offset
dy	vertical offset

5.47.2.7 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

pPath	the path.
iNbPoints	number of points used to discretize the curve
x1	first control point x
y1	first control point y
x2	second control point x
y2	second control point y
хЗ	terminal point of the curve x
у3	terminal point of the curve y

5.47.2.8 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

pPath	the path.
iNbPoints	number of points used to discretize the curve
dx1	first control point offset x
dy 1	first control point offset y
dx2	second control point offset x
dy2	second control point offset y
dx3	terminal point of the curve offset x
dy3	terminal point of the curve offset y

5.47.2.9 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

pPath	the path.
iNbPoints	number of points used to discretize the curve

x1	control point x
y1	control point y
x2	terminal point of the curve x
y2	terminal point of the curve y

5.47.2.10 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

pPath	the path.
iNbPoints	number of points used to discretize the curve
dx1	control point offset x
dy1	control point offset y
dx2	terminal point of the curve offset x
dy2	terminal point of the curve offset y

5.47.2.11 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

pPath	the path.
iNbPoints	number of points used to discretize the arc
XC	x coordinate of the center
ус	y coordinate of the center
r	radius
teta0	initial angle
cone	cone of the arc (a negative value means clockwise).

5.47.2.12 void cairo_dock_stroke_gl_path (const CairoDockGLPath * pPath, gboolean bClosePath)

Stroke a path with the current color and with the current line width.

pPath	the path.	1
bClosePath	whether to close the path (that is to say, join the last point with the first one)	1
	or not.	ı

5.47.2.13 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

pPath	the path.
iTexture	the texture, or 0 to fill the path with the current color. To fill the path with
	a gradation, use GL_COLOR_ARRAY and feed it with a table of colors that
	matches the vertices.

5.47.2.14 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.
fFrame-	height of the rectangle, including the corners.
Height	
fRadius	radius of the corners (can be 0).
fLineWidth	width of the line. If set to 0, the background will be filled with the provided
	color, otherwise the path will be stroke with this color.
fLineColor	color of the line if fLineWidth is non nul, or color of the background otherwise.

5.48 cairo-dock-opengl.h File Reference

Data Structures

struct _CairoDockGLConfig

This strucure summarizes the available OpenGL configuration on the system.

Functions

- gboolean cairo_dock_initialize_opengl_backend (gboolean bForceOpenGL)
- void cairo_dock_create_icon_fbo (void)
- void cairo_dock_destroy_icon_fbo (void)
- gboolean cairo_dock_begin_draw_icon (Icon *pIcon, CairoContainer *pContainer, gint iRenderingMode)
- void cairo dock end draw icon (Icon *pIcon, CairoContainer *pContainer)
- void cairo_dock_set_perspective_view (CairoContainer *pContainer)
- void cairo_dock_set_ortho_view (CairoContainer *pContainer)
- void cairo_dock_apply_desktop_background_opengl (CairoContainer *pContainer)
- void cairo_dock_set_gl_capabilities (GtkWidget *pWindow)

5.48.1 Detailed Description

This class manages the OpenGL backend and context.

5.48.2 Function Documentation

5.48.2.1 gboolean cairo_dock_initialize_opengl_backend (gboolean bForceOpenGL)

Initialize the OpenGL backend, by trying to get a suitable GLX configuration.

Parameters

	whether to force the use of OpenGL, or let the function decide.
bForceOpen@	

Returns

TRUE if OpenGL is usable.

5.48.2.2 void cairo_dock_create_icon_fbo (void)

Create an FBO to render the icons inside a dock.

5.48.2.3 void cairo_dock_destroy_icon_fbo (void)

Destroy the icons FBO.

5.48.2.4 gboolean cairo_dock_begin_draw_icon (Icon * plcon, CairoContainer * pContainer, gint iRenderingMode)

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

Parameters

	plcon	the icon on which to draw.
	pContainer	its container, or NULL if the icon is not yet inside a container.
ĺ	iRendering-	rendering mode. 0:normal, 1:don't clear the current texture, so that the draw-
	Mode	ing will be superimposed on it, 2:keep the current icon texture unchanged for
		all the drawing (the drawing is made on another texture).

Returns

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

5.48.2.5 void cairo_dock_end_draw_icon (Icon * plcon, CairoContainer * pContainer)

Finish an OpenGL drawing session on an icon.

Parameters

plcon	the icon on which to draw.
pContainer	its container, or NULL if the icon is not yet inside a container.

Returns

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

5.48.2.6 void cairo_dock_set_perspective_view (CairoContainer * 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

pContainer	the container
P	100 000 100 100 100 100 100 100 100 10

5.48.2.7 void cairo_dock_set_ortho_view (CairoContainer * 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

pContainer	the container

5.48.2.8 void cairo_dock_apply_desktop_background_opengl (CairoContainer * pContainer)

Apply the desktop background onto a container, to emulate fake transparency.

Parameters

pContainer	the container

5.48.2.9 void cairo_dock_set_gl_capabilities (GtkWidget * pWindow)

Set a shared default-initialized GL context on a window.

pWindow	the window, not yet realized.

5.49 cairo-dock-overlay.h File Reference

Enumerations

· enum CairoOverlayPosition

Available position of an overlay on an icon.

Functions

- gboolean cairo_dock_add_overlay_from_image (Icon *plcon, const gchar *cImageFile, CairoOverlayPosition iPosition)
- void cairo_dock_add_overlay_from_surface (Icon *plcon, cairo_surface_t *pSurface, int iWidth, int iHeight, CairoOverlayPosition iPosition)
- void cairo_dock_remove_overlay_at_position (lcon *plcon, CairoOverlayPosition iPosition)
- CairoDockImageBuffer * cairo_dock_get_overlay_buffer_at_position (lcon *plcon, CairoOverlayPosition iPosition)
- void cairo_dock_print_overlay_on_icon (Icon *pIcon, CairoContainer *pContainer, const gchar *cImageFile, CairoOverlayPosition iPosition)

5.49.1 Detailed Description

This class defines Overlays, that are small images superimposed on the icon at a given position. This means that overlays can be added/removed without modifying the icon's surface/texture, and they will remain even if you erase the icon's surface/texture. Only one overlay can exist 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. To remove an overlay, use cairo_dock_remove_overlay_at_position. If you need to modify an overlay directly, you can get its image buffer with cairo_dock_get_overlay_buffer_at_position. 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. This can avoid to draw it at each refresh.

5.49.2 Function Documentation

5.49.2.1 gboolean cairo_dock_add_overlay_from_image (Icon * plcon, const gchar * clmageFile, CairoOverlayPosition iPosition)

Add an overlay on an icon from an image.

	plcon	the icon
	clmageFile	an image (if it's not a path, it is searched amongst the current theme's images)
ŀ	iDocition	3 /
	iPosition	position where to display the overlay

TRUE if the overlay has been successfuly added.

5.49.2.2 void cairo_dock_add_overlay_from_surface (lcon * plcon, cairo_surface_t * pSurface, int iWidth, int iHeight, CairoOverlayPosition iPosition)

Add an overlay on an icon from a surface.

Parameters

plcon	the icon
pSurface	a cairo surface
iWidth	width of the surface
iHeight	height of the surface
iPosition	position where to display the overlay

5.49.2.3 void cairo_dock_remove_overlay_at_position (Icon * plcon, CairoOverlayPosition iPosition)

Remove an overlay on an icon, given its position (there is only one overlay at a given position).

Parameters

plcon	the icon
iPosition	position of the overlay

5.49.2.4 CairoDockImageBuffer* cairo_dock_get_overlay_buffer_at_position (Icon * plcon, CairoOverlayPosition iPosition)

Get the image buffer of an overlay, given its position (there is only one overlay at a given position).

Parameters

plcon	the icon
iPosition	position of the overlay

Returns

the image-buffer of the overlay, or NULL if there is no overlay at this position.

5.49.2.5 void cairo_dock_print_overlay_on_icon (Icon * plcon, CairoContainer * pContainer, const gchar * clmageFile, 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 an image).

Parameters

plcon	the icon
pContainer	container of the icon
clmageFile	an image (if it's not a path, it is searched amongst the current theme's im-
	ages)
iPosition	position where to display the overlay

5.50 cairo-dock-packages.h File Reference

Data Structures

struct _CairoDockPackage
 Definition of a generic package.

Defines

• #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 packagess.

Functions

- gchar * cairo_dock_download_file (const gchar *cServerAdress, const gchar *cDistantFilePath, const gchar *cDistantFileName, const gchar *cExtractTo, GError **erreur)
- CairoDockTask * cairo_dock_download_file_async (const gchar *cServerAdress, const gchar *cDistantFilePath, const gchar *cDistantFileName, const gchar *cExtractTo, GFunc pCallback, gpointer data)
- gchar * cairo_dock_get_distant_file_content (const gchar *cServerAdress, const gchar *cDistantFilePath, const gchar *cDistantFileName, GError **erreur)
- gchar * cairo_dock_get_url_data_with_post (const gchar *cURL, gboolean bGetOut-putHeaders, GError **erreur, const gchar *cFirstProperty,...)
- CairoDockTask * cairo_dock_get_distant_file_content_async (const gchar *cServerAdress, const gchar *cDistantFilePath, const gchar *cDistantFileName, 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, CairoDock-GetPackagesFunc 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)

5.50.1 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 get remote data.

To get the list of available packages, use cairo_dock_list_packages, or its asynchronous version cairo_dock_list_packages_async. To get the path of a package, use cairo_dock_get_package_path; it will look for the best

5.50.2 Define Documentation

5.50.2.1 #define cairo_dock_get_url_data(cURL, erreur)

Retrieve the data of a distant URL.

cURL	distant adress to get data from.
erreur	an error.

the data. Free the string after using it.

5.50.3 Enumeration Type Documentation

5.50.3.1 enum CairoDockPackageType

Types of packagess.

Enumerator:

CAIRO_DOCK_LOCAL_PACKAGE package installed as root on the machine (in a sub-folder /usr).

CAIRO_DOCK_USER_PACKAGE package located in the user's home

CAIRO_DOCK_DISTANT_PACKAGE package present on the server

CAIRO_DOCK_NEW_PACKAGE package newly present on the server (for less than 1 month)

CAIRO_DOCK_UPDATED_PACKAGE package present locally but with a more recent version on the server, or distant package that has been updated in the past month.

CAIRO_DOCK_ANY_PACKAGE joker (the search path function will search locally first, and on the server then).

5.50.4 Function Documentation

5.50.4.1 gchar* cairo_dock_download_file (const gchar * cServerAdress, const gchar * cDistantFilePath, const gchar * cDistantFileName, const gchar * cExtractTo, GError ** erreur)

Download a distant file into a given folder, possibly extracting it.

cServer- Adress	adress of the server.
cDistant-	path of the file on the server.
FilePath	
cDistantFile-	name of the file.
Name	
cExtractTo	a local path where to extract the file, if this one is a .tar.gz/.tar.bz2/.tgz
	archive, or NULL.
erreur	an error.

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Returns

the local path of the downloaded file. If it was an archive, the path of the extracted file. Free the string after using it.

5.50.4.2 CairoDockTask* cairo_dock_download_file_async (const gchar * cServerAdress, const gchar * cDistantFilePath, const gchar * cDistantFileName, const gchar * cExtractTo, GFunc pCallback, gpointer data)

Asynchronously download a distant file into a given folder, possibly extracting it. 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

cServer- Adress	adress of the server.
cDistant- FilePath	path of the file on the server.
cDistantFile- Name	name of the file.
cExtractTo	a local path where to extract the file, if this one is a .tar.gz/.tar.bz2/.tgz archive, or NULL.
pCallback	function called when the download is finished. It takes the path of the downloaded file (it belongs to the task so don't free it) and the data you've set here.
data	data to be passed to the callback.

Returns

the Task that is doing the job. Keep it and use cairo_dock_discard_task whenever you want to discard the download (for instance if the user cancels it), or cairo_dock_free_task inside your callback.

5.50.4.3 gchar* cairo_dock_get_distant_file_content (const gchar * cServerAdress, const gchar * cDistantFilePath, const gchar * cDistantFileName, GError ** erreur)

Retrieve the content of a distant text file.

cServer-	adress of the server.
Adress	
cDistant-	path of the file on the server.
FilePath	
cDistantFile-	name of the file.
Name	
erreur	an error.

the content of the file. Free the string after using it.

5.50.4.4 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

cURL	URL of the server
bGetOutput-	whether to retrieve the page's header.
Headers	
erreur	an error.
cFirstProp-	first property of the POST data.
erty	
	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. Free the string after using it.

5.50.4.5 CairoDockTask* cairo_dock_get_distant_file_content_async (const gchar * cServerAdress, const gchar * cDistantFilePath, const gchar * cDistantFileName, GFunc pCallback, gpointer data)

Asynchronously retrieve the content of a distant text file. 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

cServer-	adress of the server.
Adress	
cDistant-	path of the file on the server.
FilePath	
cDistantFile-	name of the file.
Name	
pCallback	function called when the download is finished. It takes the content of the
	downloaded file (it belongs to the task so don't free it) and the data you've
	set here.
data	data to be passed to the callback.

Returns

the Task that is doing the job. Keep it and use cairo dock discard task whenever

you want to discard the download (for instance if the user cancels it), or cairo_dock_free_task inside your callback.

5.50.4.6 void cairo_dock_free_package (CairoDockPackage * pPackage)

Destroy a package and free all its allocated memory.

Parameters

```
pPackage the package.
```

5.50.4.7 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

cSharePack-	path of a local folder containg packages or NULL.
agesDir	
cUserPack-	path of a user folder containg packages or NULL.
agesDir	
cDistant-	path of a distant folder containg packages or NULL.
PackagesDir	
pTable	a table of packages previously retrieved, or NULL.

Returns

a hash table of (name, _CairoDockPackage). Free it with g_hash_table_destroy when you're done with it.

```
5.50.4.8 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 differente sources. This function is non-blocking, you'll get a CairoTask that you can discard at any time, and you'll get a hash-table of the packages as the first argument of the callback (the second being the data you passed to this function).

cSharePack-	path of a local folder containg packages or NULL.
agesDir	
cUserPack-	path of a user folder containg packages or NULL.
agesDir	

cDistant- PackagesDir	path of a distant folder containg packages or NULL.
pCallback	function called when the listing is finished. It takes the hash-table of the found packages (it belongs to the task so don't free it) and the data you've set here.
data	data to be passed to the callback.
pTable	a table of packages previously retrieved, or NULL.

Returns

the Task that is doing the job. Keep it and use cairo_dock_discard_task whenever you want to discard the download (for instance if the user cancels it), or cairo_dock_free_task inside your callback.

5.50.4.9 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 differente sources. If the package is found on the server and is not present on the disk, or is not up to date, then it is downloaded and the local path is returned.

Parameters

cPackage- Name	name of the package.
cSharePack- agesDir	path of a local folder containing packages or NULL.
cUserPack- agesDir	path of a user folder containing packages or NULL.
cDistant- PackagesDir	path of a distant folder containg packages or NULL.
iGivenType	type of package, or CAIRO_DOCK_ANY_PACKAGE if any type of package should be considered.

Returns

a newly allocated string containing the complete local path of the package. If the package is distant, it is downloaded and extracted into this folder.

5.51 cairo-dock-particle-system.h File Reference

Data Structures

- struct _CairoParticle

 A particle of a particle system.
- struct CairoParticleSystem

A particle system.

Defines

• #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)

5.51.1 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.

5.51.2 Define Documentation

5.51.2.1 #define cairo_dock_render_particles(pParticleSystem)

Render all the particles of a particle system.

Parameters

pParti-	the particle system.
cleSystem	

5.51.3 Function Documentation

5.51.3.1 void cairo_dock_render_particles_full (CairoParticleSystem * pParticleSystem, int iDepth)

Render all the particles of a particle system with a given depth.

Parameters

pParti-	the particle system.
cleSystem	
iDepth	depth of the particles that will be rendered. If set to -1, only particles with a
	negative z will be rendered, if set to 1, only particles with a positive z will be
	rendered, if set to 0, all the particles will be rendered.

5.51.3.2 CairoParticleSystem* cairo_dock_create_particle_system (int iNbParticles, GLuint iTexture, double fWidth, double fHeight)

Create a particle system.

Parameters

iNbParticles	number of particles of the system.
iTexture	texture to map on each particle.
fWidth	width of the system.
fHeight	height of the system.

Returns

a newly allocated particle system.

5.51.3.3 void cairo_dock_free_particle_system (CairoParticleSystem * pParticleSystem)

Destroy a particle system, freeing all the ressources it was using.

Parameters

pParti-	the particle system.
cleSystem	

5.51.3.4 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

pParti-	the particle system.
cleSystem	
pRewindPar-	function called on a particle when its life is over.
ticle	

Returns

TRUE if some particles are still alive.

5.52 cairo-dock-surface-factory.h File Reference

Data Structures

struct _CairoDockLabelDescription
 Description of the rendering of a text.

Defines

- #define CAIRO_DOCK_ORIENTATION_MASK
 mask to get the orientation from a CairoDockLoadImageModifier.
- #define cairo_dock_create_surface_for_square_icon(clmagePath, flmageSize)
- #define cairo_dock_create_surface_from_text(cText, pLabelDescription, iTextWidth-Ptr, iTextHeightPtr)

Enumerations

```
    enum CairoDockLoadImageModifier {
        CAIRO_DOCK_FILL_SPACE,
        CAIRO_DOCK_KEEP_RATIO,
        CAIRO_DOCK_DONT_ZOOM_IN,
        CAIRO_DOCK_ORIENTATION_HFLIP,
        CAIRO_DOCK_ORIENTATION_ROT_180,
        CAIRO_DOCK_ORIENTATION_VFLIP,
        CAIRO_DOCK_ORIENTATION_ROT_90_HFLIP,
        CAIRO_DOCK_ORIENTATION_ROT_90,
        CAIRO_DOCK_ORIENTATION_ROT_90,
        CAIRO_DOCK_ORIENTATION_ROT_90_VFLIP,
        CAIRO_DOCK_ORIENTATION_ROT_270 }
```

Types of image loading modifiers.

Functions

- void cairo_dock_calculate_constrainted_size (double *flmageWidth, double *flmageHeight, int iWidthConstraint, int iHeightConstraint, CairoDockLoadImageModifier iLoadingModifier, double *fZoomWidth, double *fZoomHeight)
- cairo_surface_t * cairo_dock_create_surface_from_xicon_buffer (gulong *pXlconBuffer, int iBufferNbElements, int iWidth, int iHeight)
- cairo_surface_t * cairo_dock_create_surface_from_pixbuf (GdkPixbuf *pixbuf, double fMaxScale, int iWidthConstraint, int iHeightConstraint, CairoDockLoadImage-Modifier 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 *clmageFile, double flmageWidth, double flmageHeight, double fAlpha)
- cairo_surface_t * cairo_dock_rotate_surface (cairo_surface_t *pSurface, double flmageWidth, double flmageHeight, double fRotationAngle)
- cairo_surface_t * cairo_dock_create_reflection_surface (cairo_surface_t *pSurface, double flmageWidth, double flmageHeight, double fReflectSize, double fAlbedo, gboolean bIsHorizontal, gboolean bDirectionUp)
- cairo_surface_t * cairo_dock_create_surface_from_text_full (const gchar *cText, CairoDockLabelDescription *pLabelDescription, double fMaxScale, int iMaxWidth, int *iTextWidth, int *iTextHeight, double *fTextXOffset, double *fTextYOffset)
- cairo_surface_t * cairo_dock_duplicate_surface (cairo_surface_t *pSurface, double fWidth, double fHeight, double fDesiredWidth, double fDesiredHeight)

5.52.1 Detailed Description

This class contains functions to load any image/X buffer/GdkPixbuf/text into a cairosurface. 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).

5.52.2 Define Documentation

5.52.2.1 #define cairo_dock_create_surface_for_square_icon(clmagePath, flmageSize)

Create a square surface from any image, at a given size. If the image is given by its sole name, it is searched inside the icons themes known by Cairo-Dock.

Parameters

clmagePath	path or name of an image.
flmageSize	the desired surface size.

Returns

the newly allocated surface.

5.52.2.2 #define cairo_dock_create_surface_from_text(cText, pLabelDescription, iTextWidthPtr, iTextHeightPtr)

Create a surface representing a text, according to a given text description.

Parameters

cText	the text.
pLabelDe-	description of the text rendering.
scription	
iTextWidth-	will be filled the width of the resulting surface.
Ptr	
iTex-	will be filled the height of the resulting surface.
tHeightPtr	

Returns

the newly allocated surface.

5.52.3 Enumeration Type Documentation

5.52.3.1 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

5.52.4 Function Documentation

5.52.4.1 void cairo_dock_calculate_constrainted_size (double * flmageWidth, double * flmageHeight, 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

flmageWidth	pointer to the width of the image. Initially contains the width of the original
	image, and is updated with the resulting width.
flmage-	pointer to the height of the image. Initially contains the height of the original
Height	image, and is updated with the resulting height.
iWidthCon-	constraint on width (0 \leq no constraint).
straint	
iHeightCon-	constraint on height (0 <=> no constraint).
straint	
iLoading-	a mask of different loading modifiers.
Modifier	
fZoomWidth	will be filled with the zoom that has been applied on width.
fZoomHeight	will be filled with the zoom that has been applied on height.

5.52.4.2 cairo_surface_t* cairo_dock_create_surface_from_xicon_buffer (gulong * pXlconBuffer, 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

pXIcon-	raw data of the icon.
Buffer	
iBufferN-	number of elements in the buffer.
bElements	
iWidth	will be filled with the resulting width of the surface.
iHeight	will be filled with the resulting height of the surface.

Returns

the newly allocated surface.

5.52.4.3 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

pixbuf	the pixbuf.
fMaxScale	maximum zoom of the icon.
iWidthCon-	constraint on the width, or 0 to not constraint it.
straint	
iHeightCon-	constraint on the height, or 0 to not constraint it.
straint	
iLoading-	a mask of different loading modifiers.
Modifier	
flmageWidth	will be filled with the resulting width of the surface (hors zoom).
flmage-	will be filled with the resulting height of the surface (hors zoom).
Height	
fZoomX	if non NULL, will be filled with the zoom that has been applied on width.
fZoomY	if non NULL, will be filled with the zoom that has been applied on width.

Returns

the newly allocated surface.

5.52.4.4 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

iWidth	width of the surface.
iHeight	height of the surface.

Returns

the newly allocated surface.

5.52.4.5 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

clmagePath	complete path to the image.
fMaxScale	maximum zoom of the icon.
iWidthCon-	constraint on the width, or 0 to not constraint it.
straint	
iHeightCon-	constraint on the height, or 0 to not constraint it.
straint	
iLoading-	a mask of different loading modifiers.
Modifier	
flmageWidth	will be filled with the resulting width of the surface (hors zoom).
flmage-	will be filled with the resulting height of the surface (hors zoom).
Height	
fZoomX	if non NULL, will be filled with the zoom that has been applied on width.
fZoomY	if non NULL, will be filled with the zoom that has been applied on width.

Returns

the newly allocated surface.

5.52.4.6 cairo_surface_t* cairo_dock_create_surface_from_image_simple (const gchar * clmageFile, double flmageWidth, double flmageHeight)

Create a surface from any image, at a given size. If the image is given by its sole name, it is searched inside the current theme root folder.

Parameters

clmageFile	path or name of an image.
flmageWidth	the desired surface width.
flmage-	the desired surface height.
Height	

Returns

the newly allocated surface.

5.52.4.7 cairo_surface_t* cairo_dock_create_surface_from_icon (const gchar * clmagePath, double flmageWidth, double flmageHeight)

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

clmagePath	path or name of an image.
flmageWidth	the desired surface width.
flmage-	the desired surface height.
Height	

Returns

the newly allocated surface.

5.52.4.8 cairo_surface_t* cairo_dock_create_surface_from_pattern (const gchar * clmageFile, double flmageWidth, double flmageHeight, 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

clmageFile	path or name of an image that will be repeated to fill the surface.
flmageWidth	the desired surface width.
flmage-	the desired surface height.
Height	
fAlpha	transparency of the pattern (1 means opaque).

Returns

the newly allocated surface.

5.52.4.9 cairo_surface_t* cairo_dock_rotate_surface (cairo_surface_t * pSurface, double flmageWidth, double flmageHeight, double fRotationAngle)

Create a surface by rotating another. Only works for 1/4 of rounds.

Parameters

pSurface	surface to rotate.
flmageWidth	the width of the surface.
flmage-	the height of the surface.
Height	
fRotationAn-	rotation angle to apply, in radians.
gle	

Returns

the newly allocated surface.

5.52.4.10 cairo_surface_t* cairo_dock_create_reflection_surface (cairo_surface_t * pSurface, double flmageWidth, double flmageHeight, double fReflectSize, double fAlbedo, gboolean blsHorizontal, gboolean bDirectionUp)

Create a surface by reflection of another. Apply a transparency gradation. The size of the reflect is given by the global config, and its position if given by the orientation of the icon; if this changes, the reflect needs to be re-created.

Parameters

pSurface	surface to reflect.
flmageWidth	the width of the surface.
flmage-	the height of the surface.
Height	
fReflectSize	size of the reflection.
fAlbedo	power of the reflection (1 : strong, 0 : transparent)
blsHorizon-	TRUE if the surface is in an horizontal container.
tal	
bDirec-	TRUE if the surface is in a container whose direction is towards.
tionUp	

Returns

the newly allocated surface.

5.52.4.11 cairo_surface_t* cairo_dock_create_surface_from_text_full (const gchar * cText, CairoDockLabelDescription * pLabelDescription, double fMaxScale, int iMaxWidth, int * iTextWidth, int * iTextHeight, double * fTextXOffset, double * fTextYOffset)

Create a surface representing a text, according to a given text description.

Parameters

cText	the text.
pLabelDe-	description of the text rendering.
scription	
fMaxScale	maximum zoom of the text.
iMaxWidth	maximum authorized width for the surface; it will be zoomed in to fits this
	limit. 0 for no limit.
iTextWidth	will be filled the width of the resulting surface.
iTextHeight	will be filled the height of the resulting surface.
fTextXOffset	if non NULL, will be filled the horizontal offset to apply to center the text
	horizontally.
fTextYOffset	if non NULL, will be filled the vertical offset to apply to center the text verti-
	cally.

Returns

the newly allocated surface.

5.52.4.12 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

pSurface	surface to duplicate.
fWidth	the width of the surface.
fHeight	the height of the surface.
fDesired-	desired width of the copy (0 to keep the same size).
Width	
fDesired-	desired height of the copy (0 to keep the same size).
Height	

Returns

the newly allocated surface.

5.53 cairo-dock-task.h File Reference

Data Structures

struct CairoDockTask

Definition of a periodic and asynchronous Task.

Defines

- #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, CairoDockGetDataAsync-Func 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 iNew-Period)
- void cairo dock downgrade task frequency (CairoDockTask *pTask)
- void cairo_dock_set_normal_task_frequency (CairoDockTask *pTask)

5.53.1 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.

5.53.2 Define Documentation

5.53.2.1 #define cairo_dock_new_task(iPeriod, get_data, update, pSharedMemory)

Create a periodic Task.

Parameters

iPeriod	time between 2 iterations, possibly nul for a Task to be executed once only.
get_data	asynchonous function, which carries out the heavy job parallel to the dock;
	stores the results in the shared memory.
update	synchonous function, which carries out the update of the dock from the result
	of the previous function. Returns TRUE to continue, FALSE to stop.
pShared-	structure passed as a parameter of the get_data and update functions. Must
Memory	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.

5.53.2.2 #define cairo_dock_get_task_elapsed_time(pTask)

Get the time elapsed since the last time the Task has run.

Parameters

pTask	the periodic Task.

5.53.3 Function Documentation

 $5.53.3.1 \quad \text{void cairo_dock_launch_task (} \textbf{CairoDockTask} * \textbf{\textit{pTask}} \textbf{)}$

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

pTask	the periodic Task.

5.53.3.2 void cairo_dock_launch_task_delayed (CairoDockTask * pTask, double fDelay)

Same as above but after a delay.

Parameters

pTask	the periodic Task.
fDelay	delay in ms.

5.53.3.3 CairoDockTask* cairo_dock_new_task_full (int iPeriod, CairoDockGetDataAsyncFunc get_data, CairoDockUpdateSyncFunc update, GFreeFunc free_data, gpointer pSharedMemory)

Create a periodic Task.

Parameters

iPeriod	time between 2 iterations, possibly nul for a Task to be executed once only.
get_data	asynchonous function, which carries out the heavy job parallel to the dock;
	stores the results in the shared memory.
update	synchonous function, which carries out the update of the dock from the result of the previous function. Returns TRUE to continue, FALSE to stop.
free_data	function called when the Task is destroyed, to free the shared memory (optionnal).
pShared- Memory	

Returns

the newly allocated Task, ready to be launched with cairo_dock_launch_task. Free it with cairo_dock_free_task.

5.53.3.4 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

pTask the periodic Task.			pTask	
--------------------------	--	--	-------	--

5.53.3.5 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

pTask	the periodic Task.

5.53.3.6 void cairo_dock_free_task (CairoDockTask * pTask)

Stop and destroy a periodic Task, freeing all the allocated ressources. Unlike cairo_dock discard task, the task is stopped before being freeed, so this is a blocking call.

If you want to destroy the task inside the update callback, don't use this function; use cairo_dock_discard_task instead.

Parameters

pTask the periodic Task.

5.53.3.7 gboolean cairo_dock_task_is_active (CairoDockTask * pTask)

Tell if a Task is active, that is to say is periodically called.

Parameters

pTask	the periodic Task.	

Returns

TRUE if the Task is active.

5.53.3.8 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

pTask	the periodic Task.	

Returns

TRUE if the Task is running.

5.53.3.9 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

pTask	the periodic Task.
iNewPeriod	the new period between 2 iterations of the Task, in s.

5.53.3.10 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

pTask	the periodic Task.
iNewPeriod	the new period between 2 iterations of the Task, in s, or -1 to let it unchanged.

5.53.3.11 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

pTask	the periodic Task.
-------	--------------------

5.53.3.12 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

pTask	the periodic Task.
-------	--------------------

5.54 cairo-dock-themes-manager.h File Reference

Functions

- gboolean cairo_dock_export_current_theme (const gchar *cNewThemeName, gboolean bSaveBehavior, gboolean bSaveLaunchers)
- gboolean cairo_dock_package_current_theme (const gchar *cThemeName)
- gchar * cairo_dock_depackage_theme (const gchar *cPackagePath)
- gboolean cairo_dock_delete_themes (gchar **cThemesList)
- gboolean cairo_dock_import_theme (const gchar *cThemeName, gboolean bLoad-Behavior, gboolean bLoadLaunchers)
- CairoDockTask * cairo_dock_import_theme_async (const gchar *cThemeName, gboolean bLoadBehavior, gboolean bLoadLaunchers, GFunc pCallback, gpointer data)

5.54.1 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.

5.54.2 Function Documentation

5.54.2.1 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

cNewThe-	name to export the theme to.
meName	
bSaveBe-	whether to save the behavior paremeters too.
havior	
bSave-	whether to save the launchers too.
Launchers	

Returns

TRUE if the theme could be exported succefuly.

5.54.2.2 gboolean cairo_dock_package_current_theme (const gchar * cThemeName)

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 Home.

Parameters

cTheme-	name of the package.
Name	

Returns

TRUE if the theme could be packaged succefuly.

5.54.2.3 gchar* cairo_dock_depackage_theme (const gchar* cPackagePath)

Extract a package into the themes folder. Does not load it.

Parameters

cPack-	path of a package. If the package is distant, it is first downoladed.
agePath	

Returns

the path of the theme folder, or NULL if anerror occured.

5.54.2.4 gboolean cairo_dock_delete_themes (gchar ** cThemesList)

Remove some exported themes from the hard-disk.

Parameters

```
cThemesList a list of theme names, NULL-terminated.
```

Returns

TRUE if the themes has been succefuly deleted.

5.54.2.5 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

cTheme-	name of the theme to import.
Name	
bLoadBe-	whether to import the behavior parameters too.
havior	
bLoad-	whether to import the launchers too.
Launchers	

Returns

TRUE if the theme could be imported succefuly.

5.54.2.6 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).

Parameters

cTheme-	name of the theme to import.
Name	
bLoadBe-	whether to import the behavior parameters too.
havior	
bLoad-	whether to import the launchers too.
Launchers	
pCallback	function called when the download is finished. It takes the result of the import
	(TRUE for a successful import) and the data you've set here.

data data to be passed to the callback.

Returns

the Task that is doing the job. Keep it and use cairo_dock_discard_task if you want to discard the download before it's completed (for instance if the user cancels it), or cairo_dock_free_task inside your callback.

5.55 cairo-dock-X-manager.h File Reference

Data Structures

• struct _CairoDockWMBackend

Definition of the Window Manager backend.

struct CairoDockDesktopBackground

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_SCREEN_GEOMETRY_ALTERED,
 NOTIFICATION_DESKTOP_VISIBILITY_CHANGED,
 NOTIFICATION_KBD_STATE_CHANGED,
 NOTIFICATION_WINDOW_CONFIGURED,
 NOTIFICATION_WINDOW_ACTIVATED,
 NOTIFICATION_WINDOW_PROPERTY_CHANGED }
 signals

Functions

- void cairo_dock_wm_register_backend (CairoDockWMBackend *pBackend)
- void cairo_dock_get_current_desktop_and_viewport (int *iCurrentDesktop, int *iCurrentViewportX, int *iCurrentViewportY)

5.55.1 Detailed Description

This class manages the interactions with X. The X manager will handle signals from X and dispatch them, and manages the screen geometry.

5.55.2 Enumeration Type Documentation

5.55.2.1 enum CairoDesktopNotifications

signals

Enumerator:

- **NOTIFICATION_DESKTOP_CHANGED** notification called when the user switches to another desktop/viewport. data: NULL
- **NOTIFICATION_SCREEN_GEOMETRY_ALTERED** notification called when the geometry of the desktop has changed (number of viewports/desktops, dimensions). data: NULL
- **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_WINDOW_CONFIGURED** notification called when a window is resized or moved, or when the z-order of windows has changed. data : {Xid, XConfigureEvent or NULL}.
- **NOTIFICATION_WINDOW_ACTIVATED** notification called when the active window has changed. data : Window* or NULL
- **NOTIFICATION_WINDOW_PROPERTY_CHANGED** notification called when a window's property has changed. data : {Window, Atom, int}

5.55.3 Function Documentation

5.55.3.1 void cairo_dock_wm_register_backend (CairoDockWMBackend * pBackend)

Register a Window Manager backend, overwriting any previous one.

Parameters

pBackend a Window Manager backend; the function takes ownership of the pointer.

5.55.3.2 void cairo_dock_get_current_desktop_and_viewport (int * iCurrentDesktop, int * iCurrentViewportX, int * iCurrentViewportY)

Get the current workspace (desktop and viewport).

Parameters

iCurrent-	will be filled with the current desktop number
Desktop	
iCur-	will be filled with the current horizontal viewport number
rentView-	
portX	

iCur-	will be filled with the current vertical viewport number
rentView-	
portY	

5.56 cairo-dock-X-utilities.h File Reference

5.56.1 Detailed Description

This class provides many utilities functions to interact very specifically on X.

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