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8. Webcam Viewer

A simple webcam example I found on the net, more text later.

Example 8.1



```
1#!/usr/bin/env python
2
3import sys, os
4import pygtk, gtk, gobject
5import pygst
6pygst.require("0.10")
7import gst
8
9class GTK_Main:
10
11    def __init__(self):
12        window = gtk.Window(gtk.WINDOW_TOPLEVEL)
13        window.set_title("Webcam-Viewer")
14        window.set_default_size(500, 400)
15        window.connect("destroy", gtk.main_quit, "WM destroy")
16        vbox = gtk.VBox()
17        window.add(vbox)
18        self.movie_window = gtk.DrawingArea()
19        vbox.add(self.movie_window)
20        hbox = gtk.HBox()
21        vbox.pack_start(hbox, False)
22        hbox.set_border_width(10)
23        hbox.pack_start(gtk.Label())
24        self.button = gtk.Button("Start")
25        self.button.connect("clicked", self.start_stop)
26        hbox.pack_start(self.button, False)
27        self.button2 = gtk.Button("Quit")
28        self.button2.connect("clicked", self.exit)
29        hbox.pack_start(self.button2, False)
30        hbox.add(gtk.Label())
31        window.show_all()
32
33        # Set up the gstreamer pipeline
34        self.player = gst.parse_launch ("v4l2src ! autovideosink")
35
36        bus = self.player.get_bus()
37        bus.add_signal_watch()
38        bus.enable_sync_message_emission()
39        bus.connect("message", self.on_message)
40        bus.connect("sync-message::element", self.on_sync_message)
41
```

```
42     def start_stop(self, w):
43         if self.button.get_label() == "Start":
44             self.button.set_label("Stop")
45             self.player.set_state(gst.STATE_PLAYING)
46         else:
47             self.player.set_state(gst.STATE_NULL)
48             self.button.set_label("Start")
49
50     def exit(self, widget, data=None):
51         gtk.main_quit()
52
53     def on_message(self, bus, message):
54         t = message.type
55         if t == gst.MESSAGE_EOS:
56             self.player.set_state(gst.STATE_NULL)
57             self.button.set_label("Start")
58         elif t == gst.MESSAGE_ERROR:
59             err, debug = message.parse_error()
60             print "Error: %s" % err, debug
61             self.player.set_state(gst.STATE_NULL)
62             self.button.set_label("Start")
63
64     def on_sync_message(self, bus, message):
65         if message.structure is None:
66             return
67         message_name = message.structure.get_name()
68         if message_name == "prepare-xwindow-id":
69             # Assign the viewport
70             imagesink = message.src
71             imagesink.set_property("force-aspect-ratio", True)
72             imagesink.set_xwindow_id(self.movie_window.window.xid)
73
74 GTK_Main()
75 gtk.gdk.threads_init()
76 gtk.main()
```

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