

Writing a Rhythmbox plugin

Stuart Langridge

Ubuntu Opportunistic Developer Week 2010

<http://www.kryogenix.org/code/RBMicroBlog/>



♥ Space Oddity by David Bowie



#lastfm: <http://bit.ly/15zv4>

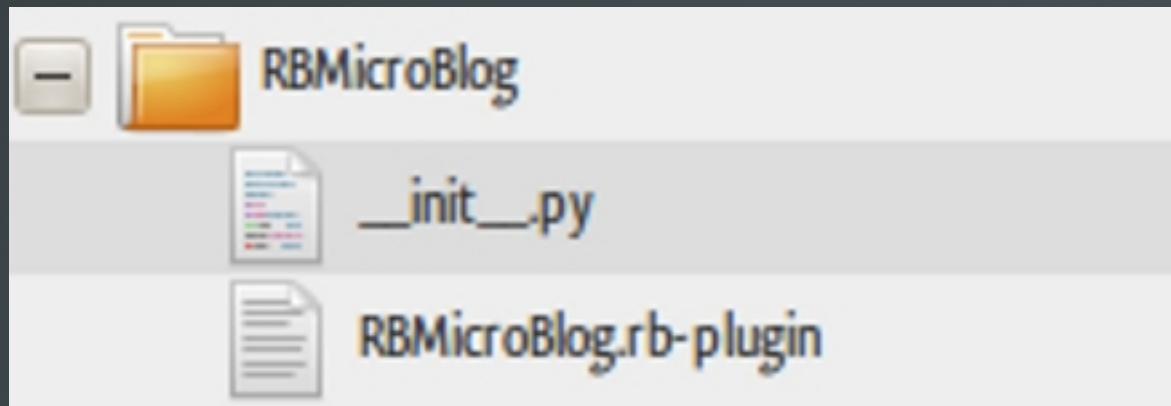
1:31 PM Feb 25th via lastfm <3

[↩ Reply](#) [↻ Retweet](#)



[mandel_macaque](#)





```
[RB Plugin]
Loader=python
Module=RBMicroBlog
IAge=1
Name=Microblogging
Description=Microblog what you're listening to
Authors=Stuart Langridge <sil@kryogenix.org>
Copyright=Copyright © 2010 Stuart Langridge
Website=http://www.kryogenix.org/code/rhythmbox-microblog
```



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```



__init__.py

```
import rb
class RBMicroBlog(rb.Plugin):
    def activate(self, shell):
        print "Activate!"
    def deactivate(self, shell):
        print "Deactivate!"
```



Music Player

Music Edit View Tools Control Help

Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Select All Ctrl+A
Deselect All Shift+Ctrl+A
Add to Play Queue
Add to Playlist
Remove
Move to Trash
Plugins
Preferences

Not Found
Library
Missing Files
Import Errors
Last.fm
Radio
Stores
Jemendo
Magnatune
Ubuntu One
Playlists
Music (not books)
My Top Rated
Purchased Music
Recently Added
Recently Played
Work chill

artists (2022)

Acryalone (1)
Aesop Rock (1)
Ah-ha (1)
Airbourne (3)
Akon (1)

Track Title
18 Babycakes
Back In Black
Given The Dog A
Have A Drink On
Hell's Bells
Let Me Put My L
Rock And Roll Air
Shake A Leg AC/DC
Shoot To Thrill AC/DC
What Do You Do For Money Honey AC/DC
You Shook Me All Night Long AC/DC
Beating around the Bush AC/DC
Get it Hot AC/DC

All Artists Albums Titles
Album

Configure Plugins

Enabled Plugin

- IM Status
- Jemendo
- LRC
- Last.fm
- Magnatune Store
- Microblogging
- Portable Players - MTP
- Portable Players - iPod
- Power Manager
- Python Console
- ReplayGain

Microblogging

Description:
Microblog what you're listening to

Author:
Stuart Langridge <sl@kryogenix.org>

Copyright:
Copyright © 2010 Stuart Langridge

Site:
<http://www.kryogenix.org/code/rhythmbox-microblog>

Configure...

Close

Time	Play Count	Rating
2:35	Never	★☆☆☆☆
4:15	6	★★★★★
3:32	2	★★★★☆
3:59	1	★★★★☆
5:12	1	★★★★☆
4:15	8	★★★★★
4:15	11	★★★★★
4:06	2	★★★★☆
5:18	2	☆☆☆☆☆
3:35	2	☆☆☆☆☆
3:30	17	★★★★★
3:56	Never	☆☆☆☆☆
2:34	Never	☆☆☆☆☆

Change and configure plugins



```
ui_str = \
```

```
__init__.py
```

```
"""<ui>  
    <menubar name="MenuBar">  
        <menu name="ToolsMenu" action="Tools">  
            <placeholder name="ToolsMenuModePlaceholder">  
                <menuitem name="ToolsMenuMicroblog"  
action="Microblog" />  
            </placeholder>  
        </menu>  
    </menubar>  
    <toolbar name="ToolBar">  
        <placeholder name="ToolBarPluginPlaceholder">  
            <toolitem name="Microblog" action="Microblog" />  
        </placeholder>  
    </toolbar>  
</ui>"""
```



__init__.py

```
def activate(self, shell):  
    action = gtk.Action("Microblog", "Microblog",  
                        "Tweet your current song",  
                        "");  
    action.connect("activate", self.microblog, shell)  
  
    action_group = gtk.ActionGroup('MicroblogActionGroup')  
    action_group.add_action(action)  
    manager = shell.get_ui_manager()  
    manager.insert_action_group(action_group, 0)  
    manager.add_ui_from_string(ui_str)  
    manager.ensure_update()
```



```
def activate(self, shell):
    icon_file_name = "/usr/share/pixmaps/gwibber.svg"
    iconsource = gtk.IconSource()
    iconsource.set_filename(icon_file_name)
    iconset = gtk.IconSet()
    iconset.add_source(iconsource)
    iconfactory = gtk.IconFactory()
    iconfactory.add("gwibber-button", iconset)
    iconfactory.add_default()

    action = gtk.Action("Microblog", "Microblog",
                        "Tweet your current song",
                        "gwibber-button");
```

__init__.py



Rhythmbox Python Console

You can access the main window through the 'shell' variable :

```
<rb.Shell object at 0xa0602d4 (RBSHELL at 0x9adc010)>
```

```
>>> dir(shell)
```

```
['_class_', '__cmp__', '__copy__', '__deepcopy__', '__delattr__', '__dict__',  
'_doc_', '__format__', '__gdoc__', '__getattr__', '__gobject_init__',  
'_grefcount_', '__gtype__', '__hash__', '__init__', '__module__', '__new__',  
'_reduce_', '__reduce_ex__', '__repr__', '__setattr__', '__sizeof__', '__str__',  
'_subclasshook_', 'add_to_queue', 'add_uri', 'add_widget', 'append_source',  
'chain', 'connect', 'connect_after', 'connect_object', 'connect_object_after',  
'disconnect', 'disconnect_by_func', 'do_notify_emit', 'emit', 'emit_stop_by_name',  
'freeze_notify', 'get_data', 'get_party_mode', 'get_player', 'get_playlist_manager',  
'get_properties', 'get_property', 'get_source_by_entry_type', 'get_ui_manager',  
'guess_source_for_uri', 'handler_block', 'handler_block_by_func',  
'handler_disconnect', 'handler_is_connected', 'handler_unblock',  
'handler_unblock_by_func', 'load_uri', 'notebook_set_page', 'notify',  
'notify_custom', 'present', 'props', 'register_entry_type_for_source',  
'remove_from_queue', 'remove_widget', 'set_data', 'set_properties', 'set_property',  
'stop_emission', 'thaw_notify', 'toggle_visibility', 'weak_ref']
```

```
>>>
```



Listening to: You Shook Me All Night Long by AC/DC



less than 20 seconds ago via Gwibber

 Delete



sil

Stuart Langridge

