

Difficulté



Difficile

**Wallpapers on desktop:**

## The script:

I have difficulties to find a solution to get a flexible diashow as wallpapers on the desktop. Previously I used to let "wallpapoz" work, but unfortunately, this program doesn't work with Mate or with Xfce environments.

I found this script very close to what I want to have: the diashow runs in a random and recursively way through the sub-folders. I only added the command for the Gnome3 desktop.

```
#!/bin/bash

function make_js {
    js=$(mktemp)
    cat > $js <<_EOF
    var wallpaper = "$X";
    var activity = activities()[0];
    activity.currentConfigGroup = new Array("Wallpaper", "image");
    activity.writeConfig("wallpaper", wallpaper);
    activity.writeConfig("userswallpaper", wallpaper);
    activity.reloadConfig();
_EOF
}

function kde_wallpaper {
    make_js
    qdbus org.kde.plasma-desktop /MainApplication
loadScriptInInteractiveConsole $js > /dev/null
    # sleep 2
    xdotool search --name "Desktop Shell Scripting Console -- Plasma Desktop
Shell" windowactivate key ctrl+e key ctrl+w
    rm -f "$js"
    dbus-send --dest=org.kde.plasma-desktop /MainApplication org.kde.plasma-
desktop.reparseConfiguration
    dbus-send --dest=org.freedesktop.DBus /org/freedesktop/DBus
org.freedesktop.DBus.ReloadConfig
    dbus-send --dest=org.kde.kwin /KWin org.kde.KWin.reloadConfig
    # kbuildsysoca4 2>/dev/null && kquitapp plasma-desktop 2>/dev/null ;
kstart plasma-desktop > /dev/null 2>&1
}

function xfce_wallpaper {
    xfconf-query -c xfce4-desktop -p /backdrop/screen0/monitor0/image-path -s
"$X"
}
```

```
function lxde_wallpaper {
    pcmanfm -w "$X"
}

function mate_wallpaper {
    gsettings set org.mate.background picture-filename "$X"
}

function e17_wallpaper {
    OUTPUT_DIR=~/.e/e/backgrounds
    FileName="$X"
    edcFile=~/.tmp/SlideShow.edc

    echo 'images { image: "$FileName" LOSSY 90; }' > $edcFile
    echo 'collections {' >> $edcFile
    echo 'group { name: "e/desktop/background";' >> $edcFile
    echo 'data { item: "style" "4"; }' >> $edcFile
    echo 'data.item: "noanimation" "1";' >> $edcFile
    echo 'max: 990 742;' >> $edcFile
    echo 'parts {' >> $edcFile
    echo 'part { name: "bg"; mouse_events: 0;' >> $edcFile
    echo 'description { state: "default" 0.0;' >> $edcFile
    echo 'aspect: 1.334231806 1.334231806; aspect_preference: NONE;' >>
$edcFile
    echo 'image { normal: "$FileName"; scale_hint: STATIC; }' >> $edcFile
    echo '}}}}}' >> $edcFile
    edge_cc -nothreads ~/.tmp/SlideShow.edc -o $OUTPUT_DIR/SlideShow.edj
    sleep 2 && rm -f ~/.tmp/SlideShow.edc
    echo 'Enlightenment e17 SlideShow.edj file created'
    enlightenment_remote -desktop-bg-del 0 0 -1 -1
    enlightenment_remote -desktop-bg-add 0 0 -1 -1 $OUTPUT_DIR/SlideShow.edj;
}

function gnome3 {
#    gsettings set org.gnome.desktop.background picture-filename "$X"
    gsettings set org.gnome.desktop.background picture-uri "$X"
}

function usage {
    printf "%s\n%s\n\n%s\n\n%s\n\n%s\n\n%s" \
        "Automatically set a random image as the desktop wallpaper," \
        "from the user's ~/Wallpaper directory." \
        "Idea from a script by Just17. Written by Paul Arnote for PCLinuxOS." \
        "Originally published in The PCLinuxOS Magazine (http://pclosmag.com), \
Jan. 2014 issue." \
        "Works for KDE4, Xfce, LXDE, Mate, e17 and GNOME3 desktops." \
        "Usage: $0 [arguments]" \

    printf "\n %s\t%s" \
        "-h, --help" "This help text"
```

```
printf "\n %s\t\tSetup for the %s" \  
"--xfce"      "XFCE4 Desktop"\  
"--mate"     "Mate Desktop"\  
"--lxde"     "LXDE Desktop"\  
"--kde4"     "KDE4 Desktop"\  
"--e17"      "Enlightenment Desktop"\  
"--gnome3"   "GNOME3 Desktop"\  
printf "\n"\  
}  
  
DIR=$HOME/Wallpaper/  
  
if [ "$1" == "--help" ] || [ "$1" == "-h" ] || [ "$1" == "" ]; then  
    usage  
    exit  
fi  
  
while true; do  
X=`find $DIR -type f \( -name '*.jpg' -o -name '*.png' \) -print0 | shuf -n1  
-z`  
  
    # For Xfce  
    if [ "$1" == "--xfce" ]; then  
        xfce_wallpaper  
    fi  
    # For LXDE  
    if [ "$1" == "--lxde" ]; then  
        lxde_wallpaper  
    fi  
    # For Mate  
    if [ "$1" == "--mate" ]; then  
        mate_wallpaper  
    fi  
    # For KDE4  
    if [ "$1" == "--kde4" ]; then  
        kde_wallpaper  
    fi  
    # For e17  
    if [ "$1" == "--e17" ]; then  
        e17_wallpaper  
    fi  
    # For Gnome3  
    if [ "$1" == "--gnome3" ]; then  
        gnome3  
    fi  
    #  
# If using Cairo-Dock add the following line  
#         killall cairo-dock && sleep 0.3 && exec cairo-dock  
  
    sleep 5m
```

```
done  
exit 0
```

#### Notes:

- the script is done to work with a pictures folder “~/Wallpaper”. So create and fill this folder with pictures (or create a link “Wallpaper” pointing to your pictures folder) or modify the line “DIR=\$HOME/Wallpaper” according to your folder.
- the change of the picture is set to 5 minutes. To modify it, adapt `sleep 5m` according to your wishes.
- For Xfce, I had to modify the “function xfce\_wallpaper”. The original command line is commented. To find out which parameter sweet to your system, run

```
$ xfconf-query -c xfce4-desktop -l | grep "last-image$"
```

and look at the output, it will give you the path put insert between “backdrop” and “last-image”

- the script must be run in a terminal that must stay open until the end of the session. I don't have found a solution to make it to work as a daemon. Therefore, the script doesn't run if put in the autostart scripts.

## Use and integration with MATE:

- create a link to the folder of the pictures

```
ln -s /path/to/the/folder/ Wallpaper
```

- save this script under `/path/to/the/script_diashow` and give it 755 permissions
- create a script `/path/to/the/script_diashow-mate`:

```
#!/bin/bash  
  
/path/to/the/./script_diashow --mate &  
killall mate-panel  
exit 0;
```

and give it 755 permissions

- under “system”->“preferences”->“Personal”->“Applications at startup” set `/path/to/the/script_diashow-mate` to be started automatically

## Use and integration with GNOME3:

For Gnome3 the way is very simple: a [desktop file](#) must only be created and via the tweaktool be selected for an autostart.

```
[Desktop Entry]
Encoding=UTF-8
Type=Application
Name=activation du diaporama de fonds d'écran gnome3
Comment=activation du diaporama de fonds d'écran gnome3
Comment[fr]=activation du diaporama de fonds d'écran gnome3
Exec=/the/path/to/the/script_diashow --gnome3
Icon=/usr/share/icons/oxygen/base/32x32/apps/preferences-desktop-wallpaper.png
Categories=GTK;Utility;
Name[fr_FR]=activation du diaporama de fonds d'écran gnome3
```

## TO BE DONE: change the picture by every changing of virtual desktop:

### For MATE

This is only a draft in order to get another picture every time you go on another desktop (function present by "Wallpapoz").

Script to know the number of the active desktop: source:

<http://askubuntu.com/questions/272566/wmctrl-ignore-other-workspaces>

Ok, I came up with my own script. At least I learned some Ubuntu bash scripting ;)

```
#!/bin/bash
num=`wmctrl -d | grep '\*' | cut -d' ' -f 1`
name=`wmctrl -lx | grep $1 | grep " $num " | tail -1`
host=`hostname`
out=`echo ${name##*$host}`

if [[ -n "${out}" ]]
then
    `wmctrl -a "$out"`
else
    $2
fi
```

What it does: gets the current desktop number searches current desktop for the given name (parameter one) then, depending on the result: either switches to found app or launches given app (parameter two)

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