This is the shell script inside

twm-menu-maker.tar.gz

```bash
#!/bin/bash
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# Menu Generator for TWM 1.0.0 . Sources .desktop files to popluate menus.
# A<Σ>Ω where <Σ> The Sum of All Things in Between.
# I AM the Alpha and the Ωmega, the First and
# the Last, the Beginning and the End. Rev. 22:13
[ "$1" = stop ] && exit

# chkconfig: 2345 89 38
# description: TWM Menu Creator.
### BEGIN INIT INFO
# Provides: system.twmrc
# Short-Description: Creates TWM menus.
# Description: Auto generates menus for TWM using .desktop files.
#### END  INIT INFO
#----------------------- Set Defaults ------------------------------------------
#printf "PreProc..."
# TWM Config Home.
TWMhome=/etc/X11/twm

# Set rc name for system or single user install.
SysTWM=system.twmrc ; [ $UID != 0 ] && SysTWM=.twmrc

# Desktop Width & Height
DskTpWd=1280 ; DskTpHt=800

# This calculates the X & Y offset for xclock, oclock, xbiff, tmprtr & xosview
# desktop placement. It is calculated to place them in reference from the right.
# Others can be added which take the geometry argument.
xckofst="$(($DskTpWd-298))+-3" ; ockofst="$(($DskTpWd-155))+40"
xbfofst="$(($DskTpWd-230))+45" ; tmpofst="$(($DskTpWd-406))+-3"
xvwofst="$(($DskTpWd-313))+$(($DskTpHt-343))"

# Define location(s) for .desktop files.
DskTpFls="/usr/share/applications/*.desktop
/usr/local/share/applications/*.desktop"

# Define Caregories. If changed you must re-associate each category
# with its file handle in the case statement starting on line 133.
#                  3          4          5          6        7          8  <- File Handles
Categories="Accessories Graphics AudioVideo Network Games Development \
Education Engineering Documentation System Settings Utility Office Other"
#   9          10           11            12        13         14        15      16  <- File
Handles

# Set X Term arguments.
Term="xterm -bg rgb:FF/FC/FA -fg rgb:00/00/80 -fn 10x20 -geometry 84x36+150+45 -cr
red -sb -sl 5000 -si -sk -rightbar"

# Define Default Programs
 RUN=xfrun4  # Run... Command.
Mail="$Term -T Mutt  -e mutt"   # Mail Client
WebB="$Term -T Links -e links"  # Web Browser
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FilB="nautilus --no-desktop --browser"  # File Browser.

#---------------------- End Settings ---------------------------------------
# Cleanup on Ctrl-C exit.
trap "rm -f /tmp/*-twm.$$ ; exit 130" SIGINT

# Get system release info for main menu title.
if [ -f /etc/redhat-release ]
then
      R=$(< /etc/redhat-release) ; R=${R%% (*} ; R=${R/ release}
      R=${R/Red Hat/RedHat} ; Mttl=${R/ Enterprise Linux/EL}
else
      R=$(uname -mrs) ; [ -n "$R" ] && Mttl=${R%%-*} || Mttl=TWM
fi

# Read Line Echo function. A Cat Here File without a system call.
RLE(){ local IFS=$'\n' ; while read line ; do echo "$line" ; done ; }

# Print function.
Print()
      {
      case ${Terminal,,} in
            true|1) printf "\t\"${Name}\"${B}f.exec \"${Term} -T '${Name}' -e $
{Exec} &\"\n" ;;
                 *) printf "\t\"$Name\"${B}f.exec \"$Exec &\"\n" ;;
      esac
      }

c=3 # Open file handles.
for cat in $Categories
do
      eval exec ${c}\> /tmp/${cat}-twm.$$
      ((c++))
done

#printf "Sort..."
# Process .desktop files and file them under the associated categories.
for app in $DskTpFls
do
      while read line
      do
            case $line in
                      Exec=*) Exec=${line#*=} ; Exec=${Exec%% *} ;;
                      Name=*) Name=${line#*=} ;;
                  Terminal=*) Terminal=${line#*=} ;;
                Categories=*) Category=${line#*=} ;;
                           *) ;;
            esac
      done < $app

      # Libre Office Hack.
      if [ "$Exec" = libreoffice ]
      then
            case "$Name" in
                        'New Document') Name="LibreOffice Writer"  ; Exec="$Exec
--writer"  ;;
                    'LibreOffice Writer') Exec="$Exec --writer"  ;;
                       'New Spreadsheet') Name="LibreOffice Calc"    ; Exec="$Exec
--calc"    ;;
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                     'LibreOffice Calc') Exec="$Exec --calc"    ;;
                         'New Formula') Name="LibreOffice Math"    ; Exec="$Exec
--math"    ;;
                     'LibreOffice Math') Exec="$Exec --matn"    ;;
                     'New Presentation') Name="LibreOffice Impress" ; Exec="$Exec
--impress" ;;
                 'LibreOffice Impress') Exec="$Exec --impress" ;;
                         'New Drawing') Name="LibreOffice Draw"    ; Exec="$Exec
--draw"    ;;
                     'LibreOffice Draw') Exec="$Exec --draw"    ;;
            esac
      fi

      # Various Hacks.
      [ "$Name" = "File Browser" -a "$Exec" = nautilus ] && Exec="$Exec
--no-desktop --browser"
      [ "$Name" = "File Manager" -a "$Exec" = nautilus ] && Exec="$Exec
--no-desktop"

      case "$Name" in
            Formula|'gThumb Photo Import Tool') Category=skip ;;
            'LibreOffice XSLT based filters') Category=skip ;;
      esac

      case $Exec in
            gthumb-importer) Name="gThumb Image Importer" ;;
             gnome-terminal) Name="Gnome Terminal" ;;
            thunar-settings) Name="Thunar Settings" ;;
            nautilus-file-management-properties) Name="Nautilus Settings" ;;
      esac

      # Create buffer character string to pad between Name & Exec in menu for
column alignment.
      n=$((21-${#Name})) ; [ $n -lt 1 ] && n=1 ; B="                       " ; B=$
{B:0:$n}

      # Sort Apps into Categories
      case $Category in
            skip) ;;
            *TextEditor*|*Dictionary*|*Archiving*|*Calculator*|*Accessories*) Print
>&3 ;;
            *WordProcessor*|*Spreadsheet*|*Presentation*|*Office*FlowChart*|*Office
*Education*)  Print >&15 ;;
            *Graphics*) Print >&4 ;;
            *Audio*|*Video*|*Player*|*AudioVideo*) Print >&5 ;;
            *Email*|*WebBrowser*|*Telephony*|*FileTransfer*|*InstantMessaging*|*Cha
t*|*RemoteAccess*|*Network*) Print >&6 ;;
            *Game*) Print >&7 ;;
            *Development*) Print >&8 ;;
            *Math*|*Science*|*Physics*|*Education*) Print >&9 ;;
            *Electronics*|*Electrical*|*Mechanical*|*Engineering*) Print >&10 ;;
            *Documentation*) Print >&11 ;;
            *HardwareSettings*|*NetworkSettings*|*SystemSettings*|*Printing*|*Packa
geManager*|*Monitor*|*Core*|*Security*|*System*) Print >&12 ;;
            *Accessibility*|*DesktopSettings*|*PersonalSettings*|*Settings*) Print
>&13 ;;
            *Terminal*|*Emulator*|*TrayIcon*|*Utility*) Print >&14 ;;
            *FlowChart*|*Calendar*|*ContactManagement*|*Office*) Print >&15 ;;
            *) Print >&16 ;;
```

```
        esac
done

# Close all file handles.
C=$c ; c=3
while [ $c -lt $C ]
do
        eval exec ${c}\<\&-
        ((c++))
done

#printf "Menu Head..."
# Open file handle for [system].twmrc .
exec 3> ${TWMhome}/${SysTWM}
# Generate menu head.
RLE << EoF >&3
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# GPL ≥2.1 https://www.gnu.org/license
# Do not edit this file as it will be overwritten on reboot.
# You may copy it to your home directory as .twmrc and then edit it.

# Add programs that don't need a title bar.
NoTitle
        {
        "tmprtr"
        "xmms"
        "xclock"
        "oclock"
        "xbiff"
        "xconsole"
        "xosview"
        "gnome-panel"
        "xfce4-panel"
        }

NoGrabServer
RestartPreviousState
DecorateTransients
TitleFont "-adobe-helvetica-bold-r-normal--*-120-*-*-*-*-*-*"
ResizeFont "-adobe-helvetica-bold-r-normal--*-120-*-*-*-*-*-*"
MenuFont "-adobe-helvetica-bold-r-normal--*-120-*-*-*-*-*-*"
IconFont "-adobe-helvetica-bold-r-normal--*-120-*-*-*-*-*-*"
IconManagerFont "-adobe-helvetica-bold-r-normal--*-120-*-*-*"
BorderWidth 3

# Ultra Violet Color Theme
Color
        {
        BorderColor "rgb:40/FF/40"
        BorderTileForeground "rgb:C0/13/30"
        BorderTileBackground "rgb:C0/13/30"

        DefaultForeground "rgb:FF/FF/00"
        DefaultBackground "rgb:70/00/C0"

        IconBorderColor "rgb:40/FF/40"
        IconForeground "rgb:FF/FF/00"
        IconBackground "rgb:70/00/C0"
```

```
        IconManagerBackground "rgb:70/00/C0"
        IconManagerForeground "rgb:40/FF/40"
        IconManagerHighlight "rgb:FF/FF/00"

        TitleForeground "rgb:FF/FF/00"
        TitleBackground "rgb:00/00/FF"

        MenuForeground "rgb:40/FF/40"
        MenuBackground "rgb:70/00/C0"
        MenuTitleForeground "rgb:FF/FF/00"
        MenuTitleBackground "rgb:00/00/FF"
        MenuBorderColor "rgb:FF/FF/00"
        MenuShadowColor "rgb:FF/FF/00"
        }

# Fuctions
MoveDelta 3

Function "move-or-lower"   { f.move f.deltastop f.lower }
Function "move-or-raise"   { f.move f.deltastop f.raise }
Function "move-or-iconify" { f.move f.deltastop f.iconify }
Function "up_iconmgr"      { f.warptoiconmgr "" f.deltastop f.upiconmgr }
Function "down_iconmgr"    { f.warptoiconmgr "" f.deltastop f.downiconmgr }
Function "left_iconmgr"    { f.warptoiconmgr "" f.deltastop f.lefticonmgr }
Function "right_iconmgr"   { f.warptoiconmgr "" f.deltastop f.righticonmgr }

Function "ReStart"
        {
        f.exec "xsetroot -solid rgb:00/00/80"
        f.restart
        }

# Mouse & Key Bindings
Button1 = : root : f.menu "TwmWindows"
Button3 = : root : f.menu "MainMenu"

Button1 = meta : window|icon : f.function "move-or-raise"
Button2 = meta : window|icon : f.iconify
Button3 = meta : window|icon : f.function "move-or-lower"

Button1 = : title : f.function "move-or-raise"
Button3 = : title : f.menu "/WindowOps"

Button1 = : icon : f.function "move-or-iconify"
Button3 = : icon : f.menu "/IconOps"

Button1 = : iconmgr : f.iconify
Button3 = : iconmgr : f.menu "/IconOps"

Button1 = shift : window : f.move
Button3 = shift : window : f.resize

## XTerm menu access. Do NOT use.
#Button1 = control : window
#Button2 = control : window
#Button3 = control : window

Button1 = control meta : window|icon : f.delete
Button3 = control meta : window|icon : f.destroy
```

```
"F1" = : root : f.exec "xterm -fg Black -bg White -fn 10x20 -geometry 60x37+240+0
+sb -T 'TWM Help' -e view ${TWMhome}/TWM-Help.txt &"

"F1" = control :  all : f.restart
"F2" = control :  all : f.move
"F3" = control :  all : f.iconify

"Up"    = control meta : all : f.function "up_iconmgr"
"Down"  = control meta : all : f.function "down_iconmgr"
"Left"  = control meta : all : f.function "left_iconmgr"
"Right" = control meta : all : f.function "right_iconmgr"

# Menus
Menu "MainMenu"
      {
#     "         A < Σ > Ω"   f.nop
      "$Mttl"                f.title
      "X Terminal"           f.exec "$Term -T 'X Term' &"
      "File Browser"         f.exec "$FilB &"
      "Mail Client"          f.exec "$Mail &"
      "Web Browser"          f.exec "$WebB &"
      "▬▬▬▬▬▬"               f.nop
      "Run Program..."       f.exec "$RUN &"
      "Settings..."          f.menu "/Utilities"
      "Find"                 f.menu "/Find"
      "TWM Menu"             f.menu "/Twm"
      "▬▬▬▬▬▬"               f.nop
      "Accessories"          f.menu "/Accessories"
      "Documentation"        f.menu "/Documentation"
      "Educational"          f.menu "/Education"
      "Engineering"          f.menu "/Engineering"
      "Development"          f.menu "/Development"
      "Games"                f.menu "/Games"
      "Graphics"             f.menu "/Graphics"
      "Internet"             f.menu "/Network"
      "Office"               f.menu "/Office"
      "Audio & Video"        f.menu "/AudioVideo"
      "Other"                f.menu "/Other"
      "▬▬▬▬▬▬"               f.nop
      "Log Out..."           f.menu "/LogOut"
      }

Menu "/Utilities"
      {
      "System"               f.menu "/System"
      "User"                 f.menu "/Settings"
      "Utility"              f.menu "/Utility"
      "X Clock"              f.exec "xclock -bg White -digital -update 1 -geometry
295x35+${xckofst} &"
      "O Clock"              f.exec "oclock -geometry 150x150+${ockofst} -fg black
-bg white &"
      "X ClipBoard"          f.exec "xclipboard &"
      "X Biff"               f.exec "xbiff -geometry 60x60+${xbfofst} &"
      "VNC Config"           f.exec "vncconfig &"
      "Set BG Color"         f.exec "setbgcolor &"
      "CPU Temp"             f.exec "tmprtr $tmpofst &"
      "XTerm  SU"            f.exec "$Term -T 'Super User' -e su - &"
      "X Console"            f.exec "xconsole -verbose -geometry 640x160+0+0 -fn
```

```
9x15 &"
        "X OS View"             f.exec "xosview +disk +net +int -geometry 310x340+$
{xvwofst} &"
        "X Kill"                f.exec "xkill &"
        "Gnome Panel"           f.exec "gnome-panel &"
        "XFCE Panel"            f.exec "xfce4-panel &"
        }

Menu "/WindowOps"
        {
        "Window"                f.title
        "More"                  f.menu "/More"
        "Move"                  f.move
        "Resize"                f.resize
        "Minimize"              f.iconify
        "Maximize"              f.fullzoom
        "Back"                  f.lower
        "▬▬▬▬"                  f.nop
        "Close"                 f.delete
        "Quit   (Kill)"         f.destroy
        }

Menu "/IconOps"
        {
        "Icon"                  f.title
        "Restore"               f.iconify
        "Move"                  f.move
        "Identify"              f.identify
        "Save State"            f.saveyourself
        "▬▬▬▬"                  f.nop
        "Close"                 f.delete
        "Quit   (Kill)"         f.destroy
        }

Menu "/More"
        {
        "Maximize"              f.title
        "Tall"                  f.zoom
        "Wide"                  f.horizoom
        "Tall & Wide"           f.title
        "Top"                   f.topzoom
        "Bottom"                f.bottomzoom
        "Left"                  f.vlzoom
        "Right"                 f.vrzoom
        "Other"                 f.title
        "Toggle AutoRaise"      f.autoraise
        "Force Move"            f.forcemove
        "Front"                 f.raise
        "Identify"              f.identify
        "Save State"            f.saveyourself
        }

Menu "/Find"
        {
        "Files"                 f.exec "gnome-search-tool &"
        "Web Search"            f.title
        "Startpage"             f.exec "$Term -e links https://www.startpage.com &"
        "Duck Duck Go"          f.exec "$Term -e links https://www.duckduckgo.com &"
        "Dog Pile"              f.exec "$Term -e links https://www.dogpile.com &"
```

```
        "Yahoo"                 f.exec "$Term -e links https://www.yahoo.com &"
        "Google"                f.exec "$Term -e links https://www.google.com &"
        }

Menu "/Twm"
        {
        "Functions"             f.title
        "Current Windows"       f.menu "TwmWindows"
        "Window Ops"            f.menu "/WindowOps"
        "Show Icon Manager"     f.showiconmgr
        "Hide Icon Manager"     f.hideiconmgr
        "Focus     Keyboard"    f.focus
        "Unfocus Keyboard"      f.unfocus
        "TWM  Help"             f.exec "xterm -fg Black -bg White -fn 10x20 -geometry
60x37+240+0 +sb -T 'TWM Help' -e view ${TWMhome}/TWM-Help.txt &"
        }

Menu "/LogOut"
        {
        "ReStart"               f.function "ReStart"
        " "                     f.nop
        "Do NOT Use In VNC!"    f.title
        "       Exit    TWM"    f.quit
        }

EoF

#printf "Sub-Menus..."
# Add sub menus from .desktop files to [system].twmrc.
for cat in $Categories
do
        printf "Menu \"/${cat}\"\n\t{\n" >&3
        sort /tmp/${cat}-twm.$$ >&3
        printf "\t}\n\n" >&3
done

# Close file handle and remove /tmp files.
exec 3<&-
rm /tmp/*-twm.$$

#echo "Done."
```