

```

#!/bin/bash

# This script allows you to easily and safely install Enlightenment, along with
# other applications based on the Enlightenment Foundation Libraries (EFL),
# in your Ubuntu LTS desktop system.

# Supported distribution: Ubuntu Noble Numbat.

# ELUCIDATE.SH takes care of downloading, configuring and building everything you
# need to enjoy the very latest version of the Enlightenment environment
# (DEB packages tend to lag far behind). Once installed, you can update
# your Enlightenment desktop whenever you like.

# Facultative: Additional steps may be taken in order to achieve optimal results.
# Please refer to the comments of the build_plain() function.

# Tip: Set your terminal scrollbar to unlimited so that you can scroll up
# to look at earlier output at any time.

# See README.md for instructions on how to use this script.
# See also the repository's wiki for post-installation hints.

# Heads up!
# Enlightenment programs compiled from git source code will inevitably come into conflict
# with the ones installed from DEB packages. Therefore, remove any previous binary
# installations of EFL, Enlightenment and related applications before running
# this script.

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# in memory of Aaron Swartz.
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# Got a GitHub account? Please consider starring our repositories to show your support.
# Thank you!

# -----
# USER VARIABLES
# -----
# (These variables are not available to be used outside of this script.)

BOLD="\e[1m"      # Bold text.
ITAL="\e[3m"      # Italic text.
BLDR="\e[1;31m"   # Bold red text.
BLDG="\e[1;32m"   # Bold green text.
BRTC="\e[1;96m"   # Bright cyan text.
BLDP="\e[1;35m"   # Bold purple text.
BLDY="\e[1;33m"   # Bold yellow text.
LOWG="\e[2;32m"   # Low intensity green text.
LOWP="\e[2;35m"   # Low intensity purple text.
LOWY="\e[2;33m"   # Low intensity yellow text.
OFF="\e[0m"       # Turn off ANSI colors and formatting.

DLDIR=$(xdg-user-dir DOWNLOAD)
DOCDIR=$(xdg-user-dir DOCUMENTS)
SCRFLDR=$HOME/.elucidate
REBASEF="git config pull.rebase false"
AUTGN="./autogen.sh --prefix=$PREFIX"
SNIN="sudo ninja -C build install"
SMIL="sudo make install"
DISTRO=$(lsb_release -sc)
DDCTL=2.0.0

# Build dependencies, recommended and script-related packages.
DEPS="acpid arc-theme automake build-essential ccache check cmake cowsay doxygen fonts-noto \
freeglut3-dev gettext graphviz gstreamer1.0-plugins-bad gstreamer1.0-plugins-ugly hwdata \
i2c-tools imagemagick libaom-dev libasound2-dev libavahi-client-dev libavif-dev \
libblkid-dev libbluetooth-dev libegl1-mesa-dev libexif-dev libfontconfig-dev libdrm-dev \
libfreetype-dev libfribidi-dev libgbm-dev libgeoclue-2-dev libgif-dev \
libgraphviz-dev libgstreamer1.0-dev libgstreamer-plugins-base1.0-dev \
libharfbuzz-dev libheif-dev libi2c-dev libibus-1.0-dev libinput-dev libinput-tools \

```

```
libjansson-dev libjpeg-dev libjson-c-dev libkmod-dev liblua5.2-dev liblz4-dev \
libmenu-cache-dev libmount-dev libopenjp2-7-dev libosmesa6-dev libpam0g-dev \
libpoppler-cpp-dev libpoppler-dev libpoppler-private-dev libpulse-dev libraw-dev \
librsvg2-dev libsdl1.2-dev libscim-dev libsndfile1-dev libspectre-dev \
libssl-dev libsystemd-dev libtiff5-dev libtool libudev-dev libudisks2-dev \
libunibreak-dev libunwind-dev libusb-1.0-0-dev libwebp-dev \
libxcb-keysyms1-dev libxcursor-dev libxinerama-dev libxkbcommon-x11-dev \
libxkbfile-dev lxmenu-data libxrandr-dev libxss-dev libxtst-dev libyuv-dev \
lolcat manpages-dev manpages-posix-dev meson ninja-build papirus-icon-theme \
texlive-base unity-greeter-badges valgrind wayland-protocols wmcrtl xdotool"
```

# Latest source code available.

```
CLONEFL="git clone https://git.enlightenment.org/enlightenment/efl.git"
CLONETY="git clone https://git.enlightenment.org/enlightenment/terminology.git"
CLONENL="git clone https://git.enlightenment.org/enlightenment/enlightenment.git"
CLONEPH="git clone https://git.enlightenment.org/enlightenment/ephoto.git"
CLONERG="git clone https://git.enlightenment.org/enlightenment/rage.git"
CLONEVI="git clone https://git.enlightenment.org/enlightenment/evism.git"
CLONEEXP="git clone https://git.enlightenment.org/enlightenment/express.git"
CLONECR="git clone https://git.enlightenment.org/enlightenment/epsilon.git"
CLONEVE="git clone https://git.enlightenment.org/enlightenment/enventor.git"
CLONEDI="git clone https://git.enlightenment.org/enlightenment/edi.git"
CLONENT="git clone https://git.enlightenment.org/vtorri/entice.git"
CLONEFT="git clone https://git.enlightenment.org/enlightenment/enlightenment-module-forecasts.git"
CLONEPN="git clone https://git.enlightenment.org/enlightenment/enlightenment-module-penguins.git"
CLONETE="git clone https://github.com/dimmus/eflete.git"
```

# "MBS" stands for Meson Build System.

```
PROG_MBS="
efl
terminology
enlightenment
ephoto
rage
evism
express
epsilon
enventor
edi
entice
enlightenment-module-forecasts
enlightenment-module-penguins
eflete"
```

# Bug reporting: Uncomment the following (remove the leading # character) to force messages to  
# display in English during the build process.

```
#
# export LC_ALL=C
```

```
# -----
# FUNCTIONS
# -----
```

# Audible feedback (event, sudo prompt...) on most systems.

```
beep_dl_complete() {
    aplay --quiet /usr/share/sounds/sound-icons/glass-water-1.wav 2>/dev/null
}
```

```
beep_attention() {
    aplay --quiet /usr/share/sounds/sound-icons/percussion-50.wav 2>/dev/null
}
```

```
beep_question() {
    aplay --quiet /usr/share/sounds/sound-icons/guitar-13.wav 2>/dev/null
}
```

```
beep_exit() {
    aplay --quiet /usr/share/sounds/sound-icons/pipe.wav 2>/dev/null
}
```

```
beep_ok() {
```

```

    aplay --quiet /usr/share/sounds/sound-icons/trumpet-12.wav 2>/dev/null
}

# Hints.
# 1: A no frill, plain build.
# 2: A feature-rich, decently optimized build on Xorg; recommended for most users.
# 3: Similar to the above, but running Enlightenment as a Wayland compositor is still considered experimental
# Avoid the third option with Nvidia drivers.
#
menu_selec() {
    if [ $INPUT -lt 1 ]; then
        echo
        printf "1  $BLDG%s $OFF%s\n\n" "INSTALL the Enlightenment ecosystem now"
        printf "2  $LOWP%s $OFF%s\n\n" "Update and rebuild the ecosystem in release mode"
        printf "3  $LOWY%s $OFF%s\n\n" "Update and rebuild the ecosystem with Wayland support"

        sleep 1 && printf "$ITAL%s $OFF%s\n\n" "Or press Ctrl+C to quit."
        read INPUT
    fi
}

selec_menu() {
    if [ $INPUT -lt 1 ]; then
        echo
        printf "1  $LOWG%s $OFF%s\n\n" "Install the Enlightenment ecosystem now"
        printf "2  $BLDP%s $OFF%s\n\n" "Update and rebuild the ecosystem in RELEASE mode"
        printf "3  $BLDY%s $OFF%s\n\n" "Update and rebuild the ecosystem with WAYLAND support"

        sleep 1 && printf "$ITAL%s $OFF%s\n\n" "Or press Ctrl+C to quit."
        read INPUT
    fi
}

# Check binary dependencies.
bin_deps() {
    sudo apt update && sudo apt full-upgrade

    if ! sudo apt install --no-install-recommends $DEPS; then
        printf "\n$BLDR%s %s\n" "CONFLICTING OR MISSING DEB PACKAGES"
        printf "$BLDR%s %s\n" "OR DPKG DATABASE IS LOCKED."
        printf "$BLDR%s $OFF%s\n\n" "SCRIPT ABORTED."
        beep_exit
        exit 1
    fi
}

# Check source dependencies.
cnt_dir() {
    COUNT=$(find . -mindepth 1 -maxdepth 1 -type d | wc -l)

    if [ ! -d efl ] || [ ! -d enlightenment ]; then
        printf "\n$BLDR%s %s\n" "FAILED TO DOWNLOAD MAIN COMPONENT."
        printf "$BLDR%s $OFF%s\n\n" "SCRIPT ABORTED."
        beep_exit
        exit 1
        # You can try downloading the missing file(s) manually (see CLONEFL or CLONENL), then relaunch
        # the script and select option 1 again; or relaunch the script at a later time.
        # In both cases, be sure to enter the same path for the Enlightenment source
        # folders as you previously used.
    fi

    case $COUNT in
        14)
            printf "$BLDG%s $OFF%s\n\n" "All programs have been downloaded successfully."
            beep_dl_complete
            sleep 2
            ;;
        0)
            printf "\n$BLDR%s %s\n" "OOPS! SOMETHING WENT WRONG."
            printf "$BLDR%s $OFF%s\n\n" "SCRIPT ABORTED."
            beep_exit
    esac
}

```

```

        exit 1
    ;;
*)
    printf "\n$BLDY%s %s\n" "WARNING: ONLY $COUNT OF 14 PROGRAMS HAVE BEEN DOWNLOADED!"
    printf "\n$BLDY%s $OFF%s\n\n" "WAIT 12 SECONDS OR HIT CTRL+C TO EXIT NOW."
    beep_attention
    sleep 12
    ;;
esac
}

mng_err() {
    printf "\n$BLDR%s $OFF%s\n\n" "BUILD ERROR--TRY AGAIN LATER."
    beep_exit
    exit 1
}

# Timestamp: See the date man page to convert epoch to human-readable date
# or visit https://www.epochconverter.com/
#
# To restore a backup, use the same commands that were executed but with
# the source and destination reversed, similar to this:
# cp -aR /home/riley/Documents/ebackups/E_1703833338/.elementary/ /home/riley/
# cp -aR /home/riley/Documents/ebackups/E_1703833338/.e/ /home/riley/
# (Then press Ctrl+Alt+End to restart Enlightenment if you are currently logged into.)
#
e_bkp() {
    TSTAMP=$(date +%s)
    mkdir -p $DOCDIR/ebackups

    mkdir $DOCDIR/ebackups/E_$TSTAMP &&
    cp -aR $HOME/.elementary $DOCDIR/ebackups/E_$TSTAMP &&
    cp -aR $HOME/.e $DOCDIR/ebackups/E_$TSTAMP
    sleep 2
}

e_tokens() {
    echo $(date +%s) >>$HOME/.cache/ebuilds/etokens

    TOKEN=$(wc -l <$HOME/.cache/ebuilds/etokens)
    if [ "$TOKEN" -gt 2 ]; then
        echo
        # Questions: Enter either y or n, or press Enter to accept the default value (capital letter).
        beep_question
        read -t 12 -p "Do you want to back up your Enlightenment settings now? [y/N] " answer
        case $answer in
            y | Y)
                e_bkp
                ;;
            n | N)
                printf "\n$ITAL%s $OFF%s\n\n" "(no backup made... OK)"
                ;;
        *)
            printf "\n$ITAL%s $OFF%s\n\n" "(no backup made... OK)"
            ;;
        esac
    fi
}

rstrt_e() {
    if [ "$XDG_CURRENT_DESKTOP" == "Enlightenment" ]; then
        enlightenment_remote -restart
        if [ -x /usr/bin/spd-say ]; then
            spd-say --language Rob 'enlightenment is awesome'
        fi
    fi
}

# BEFORE EXECUTING THE SCRIPT...
#
# Add optional JXL support?

```

```

# For best results, jpeg xl has to be compiled from source. If you really need jxl
# support in efl, please follow the instructions below:
# https://gist.github.com/batden/0f45f8b8578ec70ee911b920b6eacd39
#
# Then change the option "-Devas-loaders-disabler=jxl" to
# "-Devas-loaders-disabler=" whenever it's applicable.
#
# Note: If building jxl is too much of a hassle for you, then install
# the libjxl-dev package instead (this older version still works).
#
# Fetch EDI's additional dependencies?
# If you want edi to compile, you will also need to install the packages
# listed in the link below:
# https://gist.github.com/batden/99a7ebdd5ba9d9e83b2446ab5f05f3dc
#
build_plain() {
    sudo ln -sf /usr/lib/x86_64-linux-gnu/preloadable_libintl.so /usr/lib/libintl.so
    sudo ldconfig

    for I in $PROG_MBS; do
        cd $ESRCDIR/enlighten/$I
        printf "\n$BOLD%s $OFF%s\n\n" "Building $I..."

        case $I in
            efl)
                if [ $DISTRO == noble ]; then
                    meson setup build -Dbuildtype=plain \
                        -Dfb=true \
                        -Dbuild-tests=false \
                        -Dlua-interpreter=lua \
                        -Devas-loaders-disabler=jxl \
                        -Dglib=true
                    ninja -C build || mng_err
                fi
                ;;
            enlightenment)
                meson setup build -Dbuildtype=plain
                ninja -C build || mng_err
                ;;
            edi)
                meson setup build -Dbuildtype=plain \
                    -Dlibclang-headerdir=/usr/lib/llvm-11/include \
                    -Dlibclang-libdir=/usr/lib/llvm-11/lib
                ninja -C build
                ;;
            eflite)
                meson setup build -Dbuildtype=plain \
                    -Dwerror=false
                ninja -C build
                ;;
            *)
                meson setup build -Dbuildtype=plain
                ninja -C build
                ;;
        esac

        beep_attention
        $SNIN
        sudo ldconfig
    done
}

rebuild_optim() {
    ESRCDIR=$(cat $HOME/.cache/ebuilds/storepath)
    bin_deps
    e_tokens

    cd $ESRCDIR/rlottie
    printf "\n$BOLD%s $OFF%s\n\n" "Updating rlottie..."
    git reset --hard &>/dev/null
    $REBASEF && git pull

```

```

echo
sudo chown $USER build/.ninja*
meson setup --reconfigure build -Dbuildtype=release \
  -Dexample=false
ninja -C build
beep_attention
$SNIN
sudo ldconfig

for I in $PROG_MBS; do
  cd $ESRC_DIR/enlighten/$I
  printf "\n$BOLD%s $OFF%s\n\n" "Updating $I..."
  git reset --hard &>/dev/null
  $REBASEF && git pull

  case $I in
  efl)
    if [ $DISTRO == noble ]; then
      sudo chown $USER build/.ninja*
      meson setup --reconfigure build -Dbuildtype=release \
        -Dnative-arch-optimization=true \
        -Dfb=true \
        -Dharfbuzz=true \
        -Dlua-interpreter=lua \
        -Delua=true \
        -Dbindings=lua,cxx \
        -Ddev-disabler=jxl \
        -Dglib=true \
        -Dopengl=full \
        -Ddrm=false \
        -Dwl=false \
        -Dbuild-tests=false
      ninja -C build || mng_err
    fi
    ;;
  enlightenment)
    sudo chown $USER build/.ninja*
    meson setup --reconfigure build -Dbuildtype=release \
      -Dwl=false
    ninja -C build || mng_err
    ;;
  edi)
    sudo chown $USER build/.ninja*
    meson setup --reconfigure build -Dbuildtype=release \
      -Dlibclang-headerdir=/usr/lib/llvm-11/include \
      -Dlibclang-libdir=/usr/lib/llvm-11/lib
    ninja -C build
    ;;
  eflete)
    sudo chown $USER build/.ninja*
    meson setup --reconfigure build -Dbuildtype=release \
      -Denable-audio=true -Dwerror=false
    ninja -C build
    ;;
  *)
    sudo chown $USER build/.ninja*
    meson setup --reconfigure build -Dbuildtype=release
    ninja -C build
    ;;
  esac

  beep_attention
  $SNIN
  sudo ldconfig
done
}

rebuild_wayld() {
  if [ "$XDG_SESSION_TYPE" == "tty" ] && [ "$XDG_CURRENT_DESKTOP" == "Enlightenment" ]; then
    printf "\n$BLDR%s $OFF%s\n\n" "PLEASE LOG IN TO THE DEFAULT DESKTOP ENVIRONMENT TO EXECUTE THIS SCRIPT."
    beep_exit
  fi
}

```

```

    exit 1
fi

ESRCDIR=$(cat $HOME/.cache/ebuilds/storepath)
bin_deps
e_tokens

cd $ESRCDIR/rlottie
printf "\n$BOLD%s $OFF%s\n\n" "Updating rlottie..."
git reset --hard &>/dev/null
$REBASEF && git pull
echo
sudo chown $USER build/.ninja*
meson setup --reconfigure build -Dbuildtype=release \
    -Dexample=false
ninja -C build
beep_attention
$SNIN
sudo ldconfig

for I in $PROG_MBS; do
    cd $ESRCDIR/enlighten/$I
    printf "\n$BOLD%s $OFF%s\n\n" "Updating $I..."
    git reset --hard &>/dev/null
    $REBASEF && git pull

    case $I in
        efl)
            if [ $DISTRO == noble ]; then
                sudo chown $USER build/.ninja*
                meson setup --reconfigure build -Dbuildtype=release \
                    -Dnative-arch-optimization=true \
                    -Dfb=true \
                    -Dharfbuzz=true \
                    -Dlua-interpreter=lua \
                    -Delua=true \
                    -Dbindings=lua,cxx \
                    -Ddevs-loaders-disabler=jxl \
                    -Dglib=true \
                    -Ddrm=true \
                    -Dwl=true \
                    -Dopengl=es-egl \
                    -Dbuild-tests=false
                ninja -C build || mng_err
            fi
            ;;
        enlightenment)
            sudo chown $USER build/.ninja*
            meson setup --reconfigure build -Dbuildtype=release \
                -Dwl=true
            ninja -C build || mng_err
            ;;
        edi)
            sudo chown $USER build/.ninja*
            meson setup --reconfigure build -Dbuildtype=release \
                -Dlibclang-headerdir=/usr/lib/llvm-11/include \
                -Dlibclang-libdir=/usr/lib/llvm-11/lib
            ninja -C build
            ;;
        eflete)
            sudo chown $USER build/.ninja*
            meson setup --reconfigure build -Dbuildtype=release \
                -Denable-audio=true -Dwerror=false
            ninja -C build
            ;;
        *)
            sudo chown $USER build/.ninja*
            meson setup --reconfigure build -Dbuildtype=release
            ninja -C build
            ;;
    esac
done

```

```

    beep_attention
    $SNIN
    sudo ldconfig
done
}

do_tests() {
    if [ -x /usr/bin/wmctrl ]; then
        if [ "$XDG_SESSION_TYPE" == "x11" ]; then
            wmctrl -r :ACTIVE: -b add,maximized_vert,maximized_horz
        fi
    fi

    printf "\n\n$BOLD%s $OFF%s\n" "System check..."

    if systemd-detect-virt -q --container; then
        printf "\n$BLDR%s %s\n" "ELUCIDATE IS NOT INTENDED FOR USE INSIDE CONTAINERS."
        printf "$BLDR%s $OFF%s\n\n" "SCRIPT ABORTED."
        beep_exit
        exit 1
    fi

    if [ $DISTR0 == noble ]; then
        printf "\n$BLDG%s $OFF%s\n\n" "Ubuntu ${DISTR0^}... OK"
        sleep 1
    else
        printf "\n$BLDR%s $OFF%s\n\n" "UNSUPPORTED OPERATING SYSTEM [ $(lsb_release -d | cut -f2) ]."
        beep_exit
        exit 1
    fi

    if ! git ls-remote http://git.enlightenment.org/enlightenment/efl.git HEAD &>/dev/null; then
        printf "\n$BLDR%s %s\n" "REMOTE HOST IS UNREACHABLE--TRY AGAIN LATER"
        printf "$BLDR%s $OFF%s\n\n" "OR CHECK YOUR INTERNET CONNECTION."
        beep_exit
        exit 1
    fi

    if ! test -d "$HOME/.local/bin"; then
        mkdir -p "$HOME/.local/bin"
    fi

    if ! test -d "$HOME/.cache/ebuilds"; then
        mkdir -p "$HOME/.cache/ebuilds"
    fi
}

do_bsh_alias() {
    if [ -f $HOME/.bash_aliases ]; then
        mv -vb $HOME/.bash_aliases $HOME/.bash_aliases_bak
        echo
        touch $HOME/.bash_aliases
    else
        touch $HOME/.bash_aliases
    fi

    cat >$HOME/.bash_aliases <<EOF
    # -----
    # ENVIRONMENT VARIABLES
    # -----
    # (These variables can be accessed from any shell sessions.)

    # Compiler and linker flags added by ELUCIDATE.
    export CC="ccache gcc"
    export CXX="ccache g++"
    export USE_CCACHE=1
    export CCACHE_COMPRESS=1
    export CPPFLAGS=-I/usr/local/include
    export LDFLAGS=-L/usr/local/lib
    export PKG_CONFIG_PATH=/usr/local/lib/x86_64-linux-gnu/pkgconfig:/usr/local/lib/pkgconfig

```



EOF

```
source $HOME/.bash_aliases
}

set_p_src() {
    echo
    beep_attention

    # Do not append a trailing slash (/) to the end of the path prefix,
    # and double-check the path you entered before validating.
    #
    read -p "Please enter a path for the Enlightenment source folders \
    (e.g. /home/$LOGNAME/Documents or /home/$LOGNAME/testing): " mypath
    mkdir -p "$mypath"/sources
    SRCDIR="$mypath"/sources
    echo $SRCDIR >$HOME/.cache/ebuilds/storepath
    printf "\n%s\n\n" "You have chosen: $SRCDIR"
    sleep 2
}

# Fetch and install prerequisites.
get_preq() {
    ESRCDIR=$(cat $HOME/.cache/ebuilds/storepath)
    printf "\n\n$BOLD$s $OFF%s\n\n" "Installing prerequisites..."

    cd $DLDIR
    wget https://github.com/rockowitz/ddcutil/archive/refs/tags/v$DDCTL.tar.gz

    tar xzvf v$DDCTL.tar.gz -C $ESRCDIR
    cd $ESRCDIR/ddcutil-$DDCTL
    $AUTGN
    make
    $SMIL
    sudo ldconfig
    rm -rf $DLDIR/v$DDCTL.tar.gz
    echo

    cd $ESRCDIR
    git clone https://github.com/Samsung/rlottie.git
    cd $ESRCDIR/rlottie
    meson setup build -Dbuildtype=plain \
        -Dexample=false
    ninja -C build
    $SNIN
    sudo ldconfig
    echo
}

do_link() {
    sudo ln -sf /usr/local/etc/enlightenment/sysactions.conf /etc/enlightenment/sysactions.conf
    sudo ln -sf /usr/local/etc/enlightenment/system.conf /etc/enlightenment/system.conf
    sudo ln -sf /usr/local/etc/xdg/menus/e-applications.menu /etc/xdg/menus/e-applications.menu
}

install_now() {
    clear
    printf "\n$BLDG$s $OFF%s\n\n" "* INSTALLING ENLIGHTENMENT DESKTOP ENVIRONMENT: PLAIN BUILD ON XORG SERVER *"
    do_bsh_alias
    beep_attention
    bin_deps
    set_p_src
    get_preq

    cd $HOME
    mkdir -p $ESRCDIR/enlighten
    cd $ESRCDIR/enlighten

    printf "\n\n$BOLD$s $OFF%s\n\n" "Fetching source code from the Enlightenment git repositories..."
    $CLONEFL
    echo
}
```

```

$CLONETY
echo
$CLONENL
echo
$CLONEPH
echo
$CLONERG
echo
$CLONEVI
echo
$CLONEXP
echo
$CLONECR
echo
$CLONEVE
echo
$CLONEDI
echo
$CLONENT
echo
$CLONEFT
echo
$CLONEPN
printf "\n\n$BOLD%s $OFF%s\n\n" "Fetching source code from Dimmus' git repository..."
$CLONETE
echo

cnt_dir
build_plain

sudo mkdir -p /etc/enlightenment
do_link

sudo ln -sf /usr/local/share/xsessions/enlightenment.desktop \
    /usr/share/xsessions/enlightenment.desktop

# Protect this file from accidental deletion.
sudo chattr +i $HOME/.cache/ebuilds/storepath

printf "\n%s\n\n" "All done!"
beep_ok

printf "\n\n$BRTC%s %s" "INITIAL SETUP WIZARD TIPS:"
printf "\n$BRTC%s %s" "'Update checking' -- you can disable this feature because it serves no useful purpos
printf "\n$BRTC%s $OFF%s\n\n" "'Network management support' -- Connman is not needed (ignore the warning me

# Note: Enlightenment adds three shortcut icons (namely home.desktop, root.desktop and tmp.desktop)
# to your Gnome Desktop, you can safely delete them if it bothers you.

echo
cowsay "Now log out of your existing session then select Enlightenment on the login screen... \
That's All Folks!" | lolcat -a
echo

cp -f $DLDIR/elucidate.sh $HOME/.local/bin

exit 0
}

release_go() {
clear
printf "\n$BLDP%s $OFF%s\n\n" "* UPDATING ENLIGHTENMENT DESKTOP ENVIRONMENT: RELEASE BUILD ON XORG SERVER *"

# Check for available updates of the script folder first.
cd $SCRFLDR && git pull &>/dev/null
cp -f elucidate.sh $HOME/.local/bin
chmod +x $HOME/.local/bin/elucidate.sh
sleep 1

rebuild_optim

```

```

sudo ln -sf /usr/local/share/xsessions/enlightenment.desktop \
    /usr/share/xsessions/enlightenment.desktop

if [ -f /usr/share/wayland-sessions/enlightenment.desktop ]; then
    sudo rm -rf /usr/share/wayland-sessions/enlightenment.desktop
fi

if [ -f /usr/local/share/wayland-sessions/enlightenment.desktop ]; then
    sudo rm -rf /usr/local/share/wayland-sessions/enlightenment.desktop
fi

beep_ok
rstrt_e
echo
cowsay -f www "That's All Folks!"
echo

exit 0
}

wayld_go() {
    clear
    printf "\n$BLDY%$ $OFF%$s\n\n" "* UPDATING ENLIGHTENMENT DESKTOP ENVIRONMENT: RELEASE BUILD ON WAYLAND *"

    cd $SCRFLDR && git pull &>/dev/null
    cp -f elucidate.sh $HOME/.local/bin
    chmod +x $HOME/.local/bin/elucidate.sh
    sleep 1

    rebuild_wayld

    sudo mkdir -p /usr/share/wayland-sessions
    sudo ln -sf /usr/local/share/wayland-sessions/enlightenment.desktop \
        /usr/share/wayland-sessions/enlightenment.desktop

    beep_ok

    if [ "$XDG_SESSION_TYPE" == "x11" ] || [ "$XDG_SESSION_TYPE" == "wayland" ]; then
        echo
        cowsay -f www "Now log out of your existing session and press Ctrl+Alt+F3 to switch to tty3, \
            then enter your credentials and type: enlightenment_start" | lolcat -a
        echo
        # Wait a few seconds for the Wayland session to start.
        # When you're done, type exit
        # Pressing Ctrl+Alt+F1 will bring you back to the login screen.
    else
        echo
        cowsay -f www "That's it. Now type: enlightenment_start"
        echo
        # If Enlightenment fails to start, relaunch the script and select option 2.
        # After the build is complete type exit, then go back to the login screen.
    fi

    exit 0
}

# Lo and behold ("bhd")!
#
# Display the selection menu...
#
lo() {
    trap '{ printf "\n$BLDR%$ $OFF%$s\n\n" "KEYBOARD INTERRUPT."; exit 130; }' INT

    INPUT=0
    printf "\n$BOLD%$ $OFF%$s\n" "Please enter the number of your choice:"

    if [ ! -x /usr/local/bin/enlightenment_start ]; then
        menu_selec
    else
        selec_menu
    fi
}

```

```
}
```

```
# and get the user's choice.
```

```
bhd() {
```

```
    if [ $INPUT == 1 ]; then
```

```
        do_tests
```

```
        install_now
```

```
    elif [ $INPUT == 2 ]; then
```

```
        do_tests
```

```
        release_go
```

```
    elif [ $INPUT == 3 ]; then
```

```
        do_tests
```

```
        wayld_go
```

```
    else
```

```
        beep_exit
```

```
        exit 1
```

```
    fi
```

```
}
```

```
lo
```

```
bhd
```