Version Accessible-Coconut-24.04.01

Note : This version of GNU/Linux distribution is not for sale. However

charges for installation, maintenance and training is deserving.

Website : https://zendalona.com/

Home Page : https://zendalona.com/accessible-coconut/

Maintainer email id : info@zendalona.com

Our mailing list : accessible-coconut@googlegroups.com

You can join this group via sending an email to accessible-coconut+subscribe@googlegroups.com

Telegram group link : http://www.telegram.me/accessible\_coconut

Remaster Requirements

1 System with good configuration having minimum 4 core processor,

2 Free Space 20GB,

3 ISO Image of official Ubuntu Mate Operating System,

4 VirtualBox or VMware Workstation for Testing,

5 Cubic

# Install cubic from PPA

# sudo apt-add-repository universe

# sudo apt-add-repository ppa:cubic-wizard/release

# sudo apt update

# sudo apt install --no-install-recommends cubic

# Remaster Routines

1. Update version and date in cubic interface

2. Update remaster log and version in /usr/share/Coconut/customization\_details.text

3. apt-get clean from chroot

4. Remove orphanes using apt-get purge $(deborphan)

5. Update coco-patcher

6. Update boot/grub/grub.cfg

Warning: Add amd64 with filename

Warning: Do not use hyphen (-) in "Volume Id" field

Warning: Always fill Release Name Completely like "Accessible-Coconut 18.04 LTS "Bionic Beaver" - Release amd64 (20180903)"

List of packages that requires care while updating

|  |  |
| --- | --- |
| Package | Reason |
| firefox\* | a11y |
| libreoffice\* | a11y |
| gnome-session-canberra | login sound patch |
| chromium | a11y & launcher customization |
| ubiquity-ubuntu-artwork | AC logos |
| ubiquity-slideshow-ubuntu-mate | customization |
| plymouth-theme-ubuntu-mate-text | customization |
| plymouth-theme-ubuntu-mate-logo | customization |
| plymouth plymouth-label | customization |
| plymouth-theme-spinner | customization |
| plymouth-theme-ubuntu-text | customization |
| yaru-theme-icon | installer icon and main menu icon |

AC-Accessible-Coconut

\*\*Things highlighted like this are be to entered in the virtual environment .

Steps done in each customization of Accessible-Coconut

## Version – 1

**System Update**

apt-get update

apt-get upgrade

**Install applications from repository**

apt-get install synaptic gdebi acpi artha audacious audacity festival gnuchess phalanx gparted lame mpg321 p7zip smplayer vlc pidgin gelemental xbacklight git-core brasero fairymax speech-dispatcher-festival speech-dispatcher-flite rhvoice speech-dispatcher-rhvoice pandoc libttspico-utils vco-plugins tap-plugins swh-plugins rev-plugins omins mcp-plugins links2 handbrake net-tools usb-creator-gtk lmms kdeconnect ssh xserver-xorg-input-synaptics preload gimp daisy-player ebook-speaker cpu-x uget

**\*\***telegram-purple,Avidemux excluded

**Copying Coconut Files**

Copy directory “*Coconut***”** from old version and paste it into new version in the same path

Path: */usr/share/Coconut*

Also Copy “*applications***”** old version and paste it in the same path in new version

Path: */usr/local/share/applications*

**Now update launcher database update**

update-desktop-database

**Updating Schemas**

We need to edit the **“***/usr/share/glib-2.0/schemas/org.mate.marco.gschema.xml***”**

nano /usr/share/glib-2.0/schemas/org.mate.marco.gschema.xml

Now copy the below code from the old version from the same file and paste it in the new version.

**Below command-12**

<key name="command-13" type="s">

<default>' '</default>

<summary>Commands to run in response to keybindings</summary>

<description>The /apps/marco/global\_keybindings/run\_command\_N

keys define keybindings that correspond to these commands.

Pressing the keybinding for run\_command\_N will execute command\_N.</description>

</key>

<key name="command-14" type="s">

<default>' '</default>

<summary>Commands to run in response to keybindings</summary>

<description>The /apps/marco/global\_keybindings/run\_command\_N keys

define keybindings that correspond to these commands. Pressing the

keybinding for run\_command\_N will execute command\_N.</description>

</key>

<key name="command-15" type="s">

<default>' '</default>

<summary>Commands to run in response to keybindings</summary>

<description>The /apps/marco/global\_keybindings/run\_command\_N keys define

keybindings that correspond to these commands. Pressing the keybinding

for run\_command\_N will execute command\_N.</description>

</key>

**Below run-command-12**

<key name="run-command-13" type="s">

<default>'disabled'</default>

<summary>Run a defined command</summary>

<description>The keybinding that runs the correspondingly-numbered command

in /apps/marco/keybinding\_commands The format looks like "&lt;Control&gt;a"

or "&lt;Shift&gt;&lt;Alt&gt;F1". The parser is fairly liberal and allows

lower or upper case, and also abbreviations such as "&lt;Ctl&gt;" and

"&lt;Ctrl&gt;". If you set the option to the special string "disabled",

then there will be no keybinding for this action.</description>

</key>

<key name="run-command-14" type="s">

<default>'disabled'</default>

<summary>Run a defined command</summary>

<description>The keybinding that runs the correspondingly-numbered command

in /apps/marco/keybinding\_commands The format looks like "&lt;Control&gt;a"

or "&lt;Shift&gt;&lt;Alt&gt;F1". The parser is fairly liberal and allows lower

or upper case, and also abbreviations such as "&lt;Ctl&gt;" and "&lt;Ctrl&gt;".

If you set the option to the special string "disabled", then there will be no

keybinding for this action.</description>

</key>

<key name="run-command-15" type="s">

<default>'disabled'</default>

<summary>Run a defined command</summary>

<description>The keybinding that runs the correspondingly-numbered

command in /apps/marco/keybinding\_commands The format looks like

"&lt;Control&gt;a" or "&lt;Shift&gt;&lt;Alt&gt;F1". The parser is

fairly liberal and allows lower or upper case, and also abbreviations

such as "&lt;Ctl&gt;" and "&lt;Ctrl&gt;". If you set the option to the

special string "disabled", then there will be no keybinding for this

action.</description>

</key>

1. copy*z-mate.gschema.override* from old AC /usr/share/glib-2.0/schemas

to new AC/usr/share/glib-2.0/schemas/

**Ambiant-MATE theme installed**

add-apt-repository ppa:lah7/ambiant-mate

apt-get install ambiant-mate-gtk-themes

following lines in glib schema file *z-mate.gschema.override* updated

#Theme

[org.mate.interface]

gtk-theme='Ambiant-MATE-Dark'

icon-theme='Yaru-viridian-dark'

[org.mate.Marco.general]

theme='Ambiant-MATE-Dark'

2. then compile-schemas by

glib-compile-schemas /usr/share/glib-2.0/schemas

**Default Menu bar items and their positions defined**

Open “familiar.layout” from the following path

Path: /usr/share/mate-panel/layouts/familiar.layout

Edit this file using nano command:

nano /usr/share/mate-panel/layouts/familiar.layout

What to edit:

Add the following:

[Object menu-bar]

object-type=menu-bar

toplevel-id=top

position=0

locked=true

Edit [briskmenu] entry with following:

[Object briskmenu]

object-type=applet

applet-iid=BriskMenuFactory::BriskMenu

toplevel-id=bottom

position=0

locked=true

Edit [show-desktop]

[Object show-desktop]

Position = 15

Add following line to show-desktop

panel-right-stick=true

**Panel Application customized Menu**

XDG Mate customized Menu

Edit the following file with the below entries:

nano /etc/xdg/menus/mate-applications.menu

**Logout, Shutdown and Seperator** (add this at the end of<!-- End Other -->and </Menu><!-- End Applications -->)

<Include>

<Filename>shutdown.desktop</Filename>

<Filename>logout.desktop</Filename>

</Include>

<!-- Separator between menus and shutdown -->

<Layout>

<Merge type="menus"/>

<Merge type="files"/>

<Separator/>

<Filename>logout.desktop</Filename>

<Filename>shutdown.desktop</Filename>

<Separator/>

</Layout>

**Add Terminal in Accessories (**just add the first line **only** above end accessories)

<Filename>mate-terminal.desktop</Filename>

</Include>

</Menu> <! -- End Accessories -->

**Add Preference in System Tools**

(add below the first “</Include>” closing tag and in between the closing menu of “</menu>” System tools <!-- End System Tools -->)

<Menu>

<Name>Preferences</Name>

<Directory>Settings.directory</Directory>

<Include>

<And>

<Category>Settings</Category>

<Not>

<Or>

<Category>System</Category>

<Category>X-GNOME-Settings-Panel</Category>

<Filename>authconfig.desktop</Filename>

<Filename>ca.desrt.dconf-editor.desktop</Filename>

<Filename>fedora-release-notes.desktop</Filename>

<Filename>firewall-config.desktop</Filename>

<Filename>flash-player-properties.desktop</Filename>

<Filename>gconf-editor.desktop</Filename>

<Filename>gnome-abrt.desktop</Filename>

<Filename>ibus-setup-anthy.desktop</Filename>

<Filename>ibus-setup.desktop</Filename>

<Filename>ibus-setup-hangul.desktop</Filename>

<Filename>ibus-setup-libbopomofo.desktop</Filename>

<Filename>ibus-setup-libpinyin.desktop</Filename>

<Filename>ibus-setup-m17n.desktop</Filename>

<Filename>ibus-setup-typing-booster.desktop</Filename>

<Filename>im-chooser.desktop</Filename>

<Filename>itweb-settings.desktop</Filename>

<Filename>jhbuild.desktop</Filename>

<Filename>javaws.desktop</Filename>

<Filename>java-1.7.0-openjdk-jconsole.desktop</Filename>

<Filename>java-1.7.0-openjdk-policytool.desktop</Filename>

<Filename>log4j-chainsaw.desktop</Filename>

<Filename>log4j-logfactor5.desktop</Filename>

<Filename>nm-connection-editor.desktop</Filename>

<Filename>org.gnome.PowerStats.desktop</Filename>

<Filename>setroubleshoot.desktop</Filename>

<Filename>system-config-date.desktop</Filename>

<Filename>system-config-firewall.desktop</Filename>

<Filename>system-config-keyboard.desktop</Filename>

<Filename>system-config-language.desktop</Filename>

<Filename>system-config-printer.desktop</Filename>

<Filename>system-config-users.desktop</Filename>

<Filename>vino-preferences.desktop</Filename>

</Or>

</Not>

</And>

</Include>

</Menu>

<Menu>

<Name>Administration</Name>

<Directory>Settings-System.directory</Directory>

<Include>

<And>

<Category>Settings</Category>

<Category>System</Category>

<Not>

<Or>

<Category>X-GNOME-Settings-Panel</Category>

<Filename>authconfig.desktop</Filename>

<Filename>ca.desrt.dconf-editor.desktop</Filename>

<Filename>fedora-release-notes.desktop</Filename>

<Filename>firewall-config.desktop</Filename>

<Filename>flash-player-properties.desktop</Filename>

<Filename>gconf-editor.desktop</Filename>

<Filename>gnome-abrt.desktop</Filename>

<Filename>ibus-setup-anthy.desktop</Filename>

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<Filename>ibus-setup-libpinyin.desktop</Filename>

<Filename>ibus-setup-m17n.desktop</Filename>

<Filename>ibus-setup-typing-booster.desktop</Filename>

<Filename>im-chooser.desktop</Filename>

<Filename>itweb-settings.desktop</Filename>

<Filename>jhbuild.desktop</Filename>

<Filename>javaws.desktop</Filename>

<Filename>java-1.7.0-openjdk-jconsole.desktop</Filename>

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<Filename>nm-connection-editor.desktop</Filename>

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<Filename>system-config-language.desktop</Filename>

<Filename>system-config-printer.desktop</Filename>

<Filename>system-config-users.desktop</Filename>

<Filename>vino-preferences.desktop</Filename>

</Or>

</Not>

</And>

</Include>

</Menu>

**Enabled Preferences and Administration in Mate System tools menu**

Copy from old Accessible Coconut

*/etc/xdg/menus/gnome-applications.menu*

**Icons for main menu**

copy *tree.svg* (icon of AC) rename as *start-here-symbolic.svg* and replace in:

/usr/share/icons/Yaru/scalable/places/start-here-symbolic.svg

**Speech-Dispatcher configuration**

Removed “#” from the file for the modules -( espeak-ng, flite, rhvoice and

pico-generic )

nano /etc/speech-dispatcher/speechd.conf

*\*\*can't find pico-generic so removed # from pico*

**Automatic system update disable**

**1.Package list**

nano /etc/apt/apt.conf.d/10periodic

APT::Periodic::Update-Package-Lists "0";

**2.Auto-update**

nano /etc/apt/apt.conf.d/20auto-upgrades

APT::Periodic::Update-Package-Lists "0";

APT::Periodic::Unattended-Upgrade "0";

**3.Remove packages for apport crash report**

apt-get remove apport apport-gtk

**4. Remove Update-Manager**

apt-get remove update-manager-core

**5. Remove Celluloid and Rhymbox**

apt-get remove celluloid rhythmbox

**6. Remove Webcamoid (not accessible)**

apt-get purge webcamoid webcamoid-data webcamoid-plugins

**7. Setting Logout Short key - \*Alt+Ctrl+Backspace\*(**just click next until you find a yes or no question click yes to apply changes)

dpkg-reconfigure keyboard-configuration

**8. Disable preload by default**

1. Checking preload status

systemctl is-enabled preload

2. Disable Preload

systemctl disable preload

**Grub configuration**

1.Background (create a file named grub in the path specified)

nano /etc/default/grub

Then add the below to the file:

GRUB\_INIT\_TUNE="2000 400 4 0 1 500 4 0 1 600 4 0 1 800 6 0 1 800 8"

GRUB\_BACKGROUND="/usr/share/Coconut/grub.png"

2. Microphone noise reduction script

• Check script “ *microphone\_realtime\_background\_noise\_reduction.sh*”

in

*/usr/share/Coconut/*

• If not Copy and paste

3. Launcher

• Check file “ *microphone\_realtime\_background\_noise\_reduction.desktop*”

in

*/usr/local/share/applications/*

• If not Copy and paste

**Default Configurations and for the first Run**

When every user created we must give common application configurations

1. Copy - NB : don’t copy and past (. bash\_logout, .bashrc, .profile) and

don’t alter the existing files (. bash\_logout, .bashrc, .profile) in the new

AC — read 15th point(**what I've done here is copied the files from old AC except the files mentioned above** )

/etc/skel

1. Press Ctrl+H to visible Hidden files

2. open .config there will a directory named autostart inside that there

will be 4 files

1. athra.desktop

2. canberra-gtk-play.desktop - which we used to play initial music

3. firstrun.desktop

4. transmission-gtk.desktop

3. Templates - for caja file manager context menu

4. User Guide

5. open artha.conf in .conf

Notifications=false

6. preferences.cfg in .lios(lios)

run\_text\_cleaner = 1

language = 3

speech-language = 12

7. open

.config/ubuntu-mate/welcome/preferences.json

Welcome message disable

8. .curlew 1 Curlew configuration file for setting current folder as destination

directory 2 Play sound after finish 3 replace with UUSSEERR

9. LMMS 1 *~/Documents/lmms* 2 *.lmmsrc.xml* Basic LMMS configuration

3 replace with UUSSEERR

10. *.config/vlc/vlcrc* 1 Starting dialog 2 Volume

11. *.config/smplayer/smplayer.ini*

```bash

volume=100

```

12. .config/uGet/category/0000.json 1 Download directory

13. .local/share/orca not copied

1 - Rate -> 65 2 - shortcuts for increasing and

decreasing orca speed(UP/Down), pitch(Right/Left), Volume(Home/End)

3 - Orca preferences default voice to English (Great Britain) (Denis) 4 -

Orca speak mnemonics, child position enablded, Beep updates enablded 5

- SBW orca preferences ( Disable key echo and Enable echo by character

) 6 - sayAllStyle changed to sentence using full stop

14. Default Applications setted using prefered applications 1 Installed appli-

cations needed 2 Copy /skel/.config/mimeapps.list

15. Do not copy include - 1 .bash\_logout 2 .bashrc 3 .profile

**Script to run after user creation added**

1. Copy *adduser.local* file from old AC to new AC same path OR

*/usr/local/sbin/*

Create a file *adduser.local* in the above path

# $1-username $2-uid $3-gid $4-home-directory-without-trailing-slash

# Setting lmms rc file

sed -i 's/UUSSEERR/'"$1"'/g' $4/.lmmsrc.xml

# Setting curlew configurations file

sed -i 's/UUSSEERR/'"$1"'/g' $4/.curlew/curlew.cfg

# Setting smplayer configurations file

sed -i 's/UUSSEERR/'"$1"'/g' $4/.config/smplayer/smplayer.ini

2. Give permission

chmod +x usr/local/sbin/adduser.local

**User Guide**

Add Coconut-slideshow user guide,

1. Copy \**skel*\* from old AC to paste it to new AC, ( Remove empty *skel*

directory first and paste it, Remove by rm -rf skel )

*/etc/*

1. Slide

Check for Slideshow.py in

*/usr/share/Coconut/*

if not Copy and paste

**2. Uncheck Auto removal of ubiquity-slideshow-ubuntu-mate**

Path: *your project/custom-disk/preseed/ubuntu-mate.seed*(cannot be opened in cubic)

i. first locate the custom-disk folder in your project directory

ii.In custom-disk find preseed/ubuntu-mate.seed

iii.Edit the seed file with the following:

d-i pkgsel/include string ubiquity-slideshow-ubuntu-mate

**3. Uncheck Auto removal of gparted**

Do edit the same file mentioned above in the same path with the following:

d-i pkgsel/include string gparted

**Boot Logo, Grub and Slideshow**

1. Plymouth boot title

Edit *title* to *Accessible-Coconut* in ubuntu-mate-plymouth;

Path:

nano /usr/share/plymouth/themes/ubuntu-mate-text/ubuntu-mate-text.plymouth

2. Logo

Copy and paste logo from old AC to new AC, you can locate logos in the

Path: */usr/share/plymouth/themes/ubuntu-mate-logo/*

1. Replace *ubuntu-mate-logo.png*

2. Replace *ubuntu-mate-logo16.png*

3. Edit boot selection screen name to AC

Open cubic-Press Next Button-select Boot edit *grub.cfg* and

*loopback.cfg* Accessible-Coconut Replaced “*quiet splash***”** with

**“***textonly***"**

4. Change - Ubiquity installer icon

*/usr/share/icons/Yaru*

find all ubiquity.jpg in next all folders like 22x22, 44x44@... etc replace with

with old AC same directory ubiquity.jpg

**Mate-User-Manager 1.7 installed**

packages group-service\_1.3.0-3\_amd64.deb libgroup-service1\_1.3.0-3\_amd64.deb mate-user-admin\_1.7.0-1\_amd64.deb downloaded from ubuntu repository

apt install mate-user-admin group-service libgroup-service1

**Launchers inside User-Guide marked as trusted**

Following line added to */etc/skel/firstrun.sh*

for i in ~/Desktop/User-Guide/\*.desktop; do gio set "$i" "metadata::caja-trusted-launcher" true ;done

**Creating a systemd service**

(PLEASE CHECK DESKTOP CUSTOMIZATION, WORK PERFECTLY IN

BOOT AND NOT IN LOGIN, DO THIS STEPS)

1. Create service file

nano /etc/systemd/system/compile-glib-schemas.service

2. add this code to runs compile schemas on boot

[Unit]

Description=Compile GLib Schemas

[Service]

ExecStart=/usr/bin/glib-compile-schemas /usr/share/glib-2.0/schemas

Type=oneshot

[Install]

WantedBy=multi-user.target

3. Enable this service

sudo systemctl enable compile-glib-schemas.service

Customizing Tips and Tricks

1 To watch changes in dconf use : dconf watch /

2 Dumb dconf gsettings : dconf dump /org/gnome/settings-daemon/plugins/media-keys/custom-keybindings/ > bkp

2 To watch a directory use : inotifywatch -e modify,create,delete -r ~/.config

3 Never use - inside Volume ID

4 Always fill Release Name Completely like "Accessible-Coconut 16.04 LTS "Xenial Xerus" - Release amd64 (20180201)"

5 Copy files to filesystem directly without using cubic version which is slower

6 MathJax\_Math is our default font

7 Use onboard to test Alt+Ctrl+Backspace to logout in virtual box enviroment

8 Updating the system

apt-get update

apt-mark hold plymouth-theme-ubuntu-mate-text plymouth-theme-ubuntu-mate-logo gnome-session-canberra

firefox\* libreoffice\* plymouth plymouth-label plymouth-theme-spinner plymouth-theme-ubuntu-text

ubiquity-slideshow-ubuntu-mate ubiquity-frontend-gtk ubiquity ubiquity-frontend-gtk-panel ubiquity-ubuntu-artwork

apt-get upgrade

apt-mark unhold plymouth-theme-ubuntu-mate-text plymouth-theme-ubuntu-mate-logo gnome-session-canberra

firefox\* libreoffice\* plymouth plymouth-label plymouth-theme-spinner plymouth-theme-ubuntu-text

ubiquity-slideshow-ubuntu-mate ubiquity-frontend-gtk ubiquity ubiquity-frontend-gtk-panel ubiquity-ubuntu-artwork

apt-get clean

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FREE SOFTWARE FREE SOCIETY

We firmly believe that accessibility is not alone a matter of speech and tactile support, but it can be a thing of intuition as well.

for your feed back and suggestion contact info@zendalona.com