

# ArcheryOS

Tovi

May 16, 2018

## Contents

<b>1</b>	<b>Introduction</b>	<b>2</b>
1.1	Philosophy of ArcheryOS . . . . .	2
<b>2</b>	<b>Installation</b>	<b>3</b>
<b>3</b>	<b>i3</b>	<b>4</b>
3.1	Introduction to i3 . . . . .	4
3.2	keybinds . . . . .	4
3.2.1	i3 basics . . . . .	4
3.2.2	Programs . . . . .	6
<b>4</b>	<b>Known bugs and issues</b>	<b>7</b>
4.1	Screen size . . . . .	7
4.2	Ranger image preview . . . . .	7
4.3	Found more bugs? . . . . .	7
<b>5</b>	<b>Thanks</b>	<b>8</b>

# 1 Introduction

ArcheryOS is an arch based, rolling release, lightweight pentesting distribution. It uses the default arch linux repositories, to ensure your software is always kept up to date.

## 1.1 Philosophy of ArcheryOS

- Minimal

ArcheryOS is designed to be minimal. It comes preinstalled with i3, which is a minimal window manager (wm) that focuses on utilising as much space as possible. i3 has been configured with the goal of minimizing keypresses, and embodying the vim philosophy. ArcheryOS has around 700 programs installed by default, many which are minimal terminal programs, focused on lower system resource useage.

- Simple

ArcheryOS is designed to be simple to use and install, coming with a curses installer to simplify the usual arch installation process.

*Please note the installer is an offline installation program, simply copying all installed programs to the HDD*  
*Please update after installation*

- Privacy

ArcheryOS has been configured with privacy in mind. Firefox has been configured to minimize any data leaks that may identify the user, such as browser fingerprinting and WebRTC IP leaks.

You can visit [privacytools](#) for more information.

You can also visit [panopticlick](#) to check your browser fingerprint and [privacytools webrtc check](#) to check for WebRTC IP leaks.

## 2 Installation

ArcheryOS works as both a live boot OS and an installed OS.

To install ArcheryOS, press **Mod+Shift+F12**.

1. Choose language
2. Prepare installation
  - (a) Set virtual console
  - (b) Set desktop keyboard layout
  - (c) Partition disks and encrypt with luks, if you so choose
  - (d) Mount partitions
3. Install base
  - (a) Install base packages
  - (b) Run mkinitpcio
  - (c) Install bootloader
4. Configure base
  - (a) Generate FSTAB
  - (b) Set hostname
  - (c) Set system locale
  - (d) Set timezone
  - (e) Set root password
  - (f) Add new users (optional)
  - (g) Set security and systemd tweaks (optional)
5. Close installer and reboot
  - (a) To reboot, press **Mod+Shift+s** and then press **r**. Make sure to unmount the live boot medium.

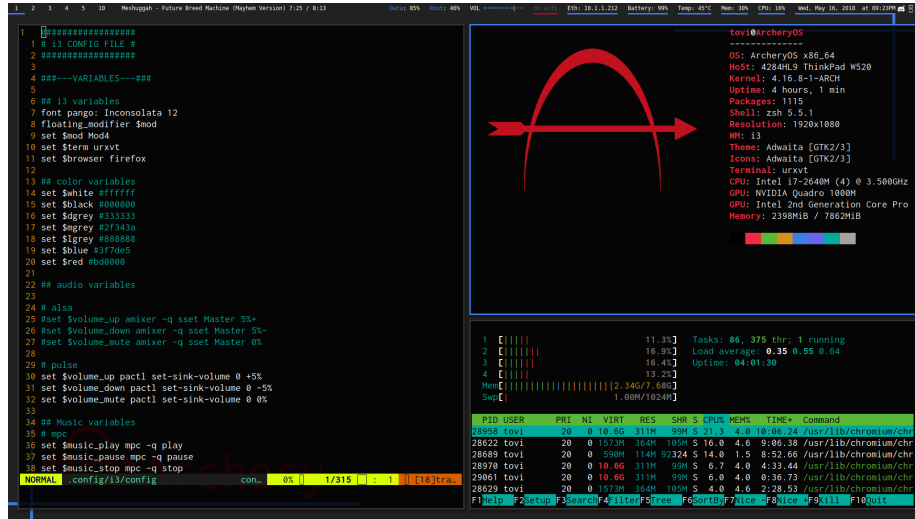


Figure 1: i3 running vim, htop, and neofetch in 3 terminals

## 3 i3

### 3.1 Introduction to i3

“i3 is a tiling window manager, completely written from scratch. The target platforms are GNU/Linux and BSD operating systems, our code is Free and Open Source Software (FOSS) under the BSD license*i3* is primarily targeted at advanced users and developers.” — Stapelberg [2]

### 3.2 keybinds

“Mod” is a reference to the super key, what is known as the “Windows key”. Mod+F1 will show this document at any time

#### 3.2.1 i3 basics

- **Mod+Enter** — Open a terminal window
- **Mod+Shift+Enter** — Open a terminal window running tmux
- **Mod+q** — Close active window
- **Mod+Shift+q** — Close active window
- **Mod+Space** — Toggles between a floating and non floating window

- **Mod+Shift+Space** — Makes a tiled window into a floating window
- **Mod+Shift+r** — Restart i3
- **Mod+d** — rofi (a program launcher)
- **Mod+Shift+d** — rofi in “show window” mode (allows user to navigate to running programs)
- **Mod+t** — Toggle between spawning new windows horizontally or vertically to the active window
- **Mod+v** — Spawn new windows vertically from active window
- **Mod+Shift+v** — Spawn new windows horizontally from active window
- **Mod+f** — Fullscreen
- **Mod+h** — Move to window left of active window
- **Mod+Shift+h** — Move active window left
- **Mod+j** — Move to window below of active window
- **Mod+Shift+j** — Move active window down
- **Mod+k** — Move to window above of active window
- **Mod+Shift+k** — Move active window up
- **Mod+l** — Move to window right of active window
- **Mod+Shift+l** — Move active window right
- **Mod+Shift+y** — Expand active windows width by 10 px
- **Mod+Shift+u** — Shrink active windows hight by 10px
- **Mod+Shift+i** — Expand active windows hight by 10px
- **Mod+o** — Opens a GUI program menu
- **Mod+Shift+o** — Shrink active windows width by 10 px
- **Mod+e** — Change to default layout
- **Mod+w** — Change to tabbed layout
- **Mod+s** — Change to stacked layout
- **Mod+Shift+s** — Lock/logout/shutdown/reboot system
- **Mod+a** — Focuses parent program
- **Mod+n** — Expand outer gaps

- **Mod+Shift+n** — Shrink outer gaps
- **Mod+g** — Expand inner gaps
- **Mod+Shift+g** — Shrink inner gaps
- **Mod+c** — Sets gaps to default width
- **Mod+Shift+c** — Turns off gaps
- **Mod+u** — Next song
- **Mod+y** — Previous song
- **Mod+`** — Changes to a random wallpaper from `/usr/share/wallpapers`

### 3.2.2 Programs

- **Mod+Shift+a** — Audio (pavucontrol)
- **Mod+b** — Browser (firefox)
- **Mod+i** — System information (htop)
- **Mod+Shift+m** — Music (ncmpcpp)
- **Mod+m** — Mute audio
- **Mod+p** — Play/pause music
- **Mod+Shift+p** — Take screenshot (scrot)
- **Mod+r** — File manager (ranger)
- **Mod+Shift+w** — Newsboat
- **Mod+z** — Toggle dropdown terminal
- **Mod+Shift+z** — Reopen dropdown terminal (in case you accidentally close it)

## 4 Known bugs and issues

### 4.1 Screen size

When first starting ArcheryOS in virtualbox, the screen size will be quite small. To fix this just logout and log back in again (**Mod+Shift+s** then **e**).

### 4.2 Ranger image preview

The default file manager in ArcheryOS, ranger, does not preview images when loaded in virtualbox. I have not found anyway to fix this, as of yet.

### 4.3 Found more bugs?

If you have found bugs or have any issue with ArcheryOS, please submit an issue to the ArcheryOS github repo.

## **5 Thanks**

Thank you to Icar-u5 [1], who created the wallpaper. See the bibliography for his github account.



## References

- [1] Icar-u5. *Wallpaper*. URL: <https://github.com/Icar-u5>.
- [2] Michael Stapelberg. *i3wm*. 2009-2017. URL: <https://i3wm.org/>.