# A Friendly Guide to LARBS!

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Use vim keys (h/j/k/l) to navigate this document. Pressing s will fit it to window width (a to revert). K and J zoom in and out. Super+f to toggle fullscreen. f will highlight links to follow which are selectable by typing the number that appears plus Enter. q to quit. (These are general shortcuts of zathura, the pdf reader.)

- Mod+F1 will show this document at any time.
- By Mod I mean the Super Key, usually known as "the Windows Key."

Questions or suggestions? Email me at luke@lukesmith.xyz

LARBS website: https://larbs.xyz
My website: https://lukesmith.xyz
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FAQs are at the end of this document.

#### Welcome!

# **Basic goals and principles of this system:**

- Naturalness Remove the border between mind and matter: everything important should be as few keypresses as possible away from you, and you shouldn't have to think about what you're doing. Immersion.
- **Economy** Programs should be simple and light on system resources and highly extensible. Because of this, many are terminal or small neurses programs that have all the magic inside of them.
- **Keyboard/vim-centrality** All terminal programs (and other programs) use vim keys when possible. Your hands never need leave the home row or thereabout.
- Decentralization This system is a web of small, modifiable and replaceable programs that users can easily
  customize.

## General keyboard changes

- Capslock is a useless key in high quality space. It's now remapped. If you press it alone, it will function as
  escape, making vimcraft much more natural, but you can also hold it down and it will act as another Windows/
  super/mod key.
- The menu button (usually between the right Alt and Ctrl) is an alternative Super/Mod button. This is to make one-handing on laptops easier.

If you'd like to change any of these keyboard changes, you need only open and change ~/.scripts/tools/remaps. Actually, this should go without saying, but *everything* here can easily be changed. Additionally, while this isn't a part of i3, the default editing mode in the shell is using vi bindings. If you want to learn more of this, run Mod+Shift+E and type and select the option for "vi mode in shell". This setting can be changed if you don't like it by deleting or commenting out the contents of ~/.inputrc.

### The Status Bar

If you're new to i3, notice the status bar on the top of the screen. To the left side, you'll see the numbers of your current workspace(s). On the right side, you'll see various system status notifiers, the date, volume, even music and local weather if possible, etc. I'm sure you can figure it out. Several modules will be click-sensitive, although if you're using my system as indented, you probably won't be doing much clicking. Still, you can right click on a module to get some information about what exactly it means.\*

The i3blocks config is ~/.config/i3blocks/config, which you can access by the terminal shortcut cfib. Notice that the config file refers to several module scripts in the ~/.scripts/ directory. You can read a summary of all of these scripts in the file ~/.scripts/SCRIPTS.md.

# **Deeper Tutorials**

In addition to this guide and reading the dotfiles of programs manually, you can also get program-specific information by running the getkeys command. This will give you the bindings of what program you want. You can also press Mod+E (that's a capital E) to get be able to watch tutorial videos on specific programs or concepts directly from YouTube.

# **Key Bindings**

All of the bindings below are in the file ~/.config/i3/config (easily accessible by typing cfi in the terminal) and can all be easily changed.

#### Window basics

Notice the case sensitivity of the shortcuts†, Be sure you play around with these. Be flexible with the basic commands and the system will grow on you quick.

- Mod+Enter Spawn terminal (the default terminal is st; run man st for more.)
- Mod+q/Q Close window
- Mod+d dmenu (For running commands or programs without shortcuts)
- Mod+t Toggle between spawning vertically and horizontally:
- Mod+f Fullscreen
- Mod+h/j/k/l Move to different windows
- Mod+H/J/K/L Move a window around
- Mod+Y/U/I/O Resize windows
- Mod+/ Spawn vertical terminal
- Mod+' Spawn horizontal terminal
- Mod+s/S Increase/decrease inner gaps
- Mod+z/Z Increase/decrease outer gaps

<sup>\*</sup>The statusbar icons are merely emojis and you can change them by changing your emoji font. If you just want black and white icons, you should actually just be able to uninstall ttf-emojione and the font will fall back on a black and white font.

<sup>†</sup>To type capital letters, hold down the Shift key—that might sound like an obvious and condescending thing to tell you, but there have literally been multiple people (Boomers) who have emailed me asking how to type a capital letter since caps lock isn't enabled.

<sup>‡</sup>You may notice that one side of your window border is a different color. This indicates the direction that the next window will spawn.

- Mod+D Reduce gaps to 0 pixels
- Mod+T Restore gaps to default (15 pixels)
- Mod+Shift+Space Make a window float (it will still be resizeable)
- Mod+Space Switch focus from a floating window to a non-floating one (or vice versa)
- Mod+o Make floating window sticky (will stay on active workspace)
- Mod+b Toggle status bar
- Mod+B Toggle window float in bottom left corner (good for video watched intermittently)
- Mod+N Same as above, but for the bottom right corner.

## **Basic Programs**

*Note:* LARBS will install nearly all of these programs by default, but some only come if you chose an extra option. Naturally, you can use yay to look for and install any you want to add.

- Mod+r ranger (file browser/manager)
- Mod+e mutt (email; not installed by default, see below)
- Mod+m ncmpcpp (music player)
- Mod+w nmtui (for connecting to wireless internet)
- Mod+a Dropdown calculator (hide with mod+a)
- Mod+i htop (system info)
- Mod+n newsboat (RSS feed reader)
- Mod+y calcurse (calendar and schedule)
- Mod+u "Dropdown" terminal (hide withmod+u)
- Mod+A pulsemixer (audio system control)
- Mod+W Web Browser
- Mod+G GIMP (for general image manipulation; starts on workspace 5)

## System

- Mod+R resize a floating window to give size (width height)
- Mod+x i3lock (Enter password to return)
- Mod+X shutdown (will ask to confirm)
- Mod+Shift+Backspace reboot (will ask to confirm)
- Mod+Shift+Escape exit i3 (will ask to confirm)
- Mod+F1 Shows this document
- Mod+F2 Refresh i3
- Mod+F3 Select screen/display to use
- Mod+F4 Hibernate (will ask to confirm)
- Mod+F5 Reset Network Manager, search for new networks
- Mod+F6 transmission torrent client (cli)
- Mod+F7 Toggle on/off transmission client via dmenu
- Mod+F8 Check mail, if mutt-wizard is installed.

- Mod+F9 Mount a USB drive/hard drive or Android
- Mod+F10 Unmount a non-essential drive or Android
- Mod+F11 Search term on DuckDuckGo
- Mod+F12 nmtui for selecting the wireless internet source.
- Mod+ ' Select an emoji to copy to clipboard
- Mod+Insert Show contents of clipboard/primary selection
- Mod+Pause Show QR code from clipboard contents (requires grencode)

#### **Audio**

I use nempepp as a music player, which is a front end for mpd.

- Mod+m ncmpcpp music player
- Mod+. Next track
- Mod+, Previous track
- Mod+< Restart track</li>
- Mod+p Pause
- Mod+M Mute all audio
- Mod+- Decrease volume (holding shift increases amount)
- Mod++ Increase volume (holding shift increases amount)
- Mod+[ Back 10 seconds (holding shift increases amount)
- Mod+] Forward 10 seconds (holding shift increases amount)
- Mod+A pulsemixer (general volume sink/source control)

## Workspaces

There are ten workspaces. They work just like those in vanilla i3 with some additions.

- Mod+(Number) Go to that number workspace
- Mod+Shift+(Number) Send window to that workspace
- Mod+Tab Go to previous workspace
- Mod+g Go to left workspace
- Mod+; Go to right workspace
- Mod+Shift+Delete "Porno-mode" Press this key sequence if you want to hide
  what you have on your screen. Moves to a totally new workspace, mutes sound,
  pauses music and brings up distraction windows.

#### Recording

I use scrot and ffmpeg to make different recordings of the desktop and audio. All of these recording shortcuts will output into ~, and will not overwrite previous recordings as their names are based on their exact times.

- PrintScreen Take a screenshot
- Shift+PrintScreen Select area to screenshot
- Mod+PrintScreen Opens dmenu menu to select kind of audio/video recording
- Mod+Delete Kills any recording started in the above way.

- Mod+ScrollLock Turn on and off screenkey (if installed) for visual typing display
- Mod+Shift+c Toggles a webcam in the bottom right for screencasting.

#### Other buttons

I've mapped those extra buttons that some keyboards have (play and pause buttons, screen brightness, email, web browsing buttons, etc.) to what you would expect.

## **Bookmarking Files and Directories**

Note the files ~/.config/bmdirs and ~/.config/bmfiles. These files hold bookmarked directories and files respectively, along with shortcut keys to their left. LARBS, specifically the shortcuts script, will automatically read these files and autogenerate aliases and shortcuts for bash/zsh and ranger from them.

For example, by default, the shortcut key for ~/Documents is simply d. Thus, if you type and run d in bash, you will automatically cd to ~/Documents. It also generates four ranger shortcuts using the shortcut d:

- gd-Go to ~/Documents
- md Move (mv) selected file(s) to ~/Documents
- td Create a new tab in ~/Documents
- Yd Copy/yank (cp) a copy of the selected file(s) to Documents

Shortcuts like these are generated for all key sequence/directory pairs in ~/.config/bmdirs. Additionally, you may also add editable files to ~/.config/bmfiles. Each key sequence you pair with a file will become an alias to edit it in either bash or ranger.

Whenever you edit and save one of the bookmark files, vim will automatically rerun the shortcut script, thus updating the shortcuts that will be used in new instances of bash and ranger. It just werks. Note that it is your responsibility to ensure that none of the bindings you add conflict with another necessary function or command.

## Frequently Asked Questions (FAQs)

## My keyboard isn't working as expected!

LARBS runs some custom keyboard settings in ~/.scripts/tools/remaps. These settings may override your preferred settings, so you should open this file and comment out troublesome lines if you have issues.

## My audio isn't working!

Sometimes, PulseAudio can be finicky on initial installation and configuration. If you have no audio output, chances are your problems will be resolved by a reboot or manually killing and restarting PulseAudio. You may also need to set your preferred default output sink which you can do by the command line, or by selecting one with pulsemixer (mod+A).

## How do I change the background/wallpaper?

The i3 configuration will always read the file ~/.config/wall.png as the wallpaper. The script setbg, if run

on an image will set it as the persistent background. When using the file manager, you can simply hover over an image name and type bg and this will run setbg.

# How I change the colorscheme?

You can edit ~/.Xresources to change the colorscheme. The terminal, status bar and other programs will automatically read the Xresources colors. Check the Arch Wiki's article for more information. LARBS is also compatible with pywal, but it is not installed or used by default anymore.

Do not remove ~/.Xresources or the color settings specifically because some programs, especially the i3 bar read them and will display as blank if they are deleted.

## How do I set up my email?

- Install neomutt, offlineimap and msmtp if you haven't already.
- Create a GPG private/public key pair if you haven't already. Type mod+shift+e and you can select a tutorial for how to do this.
- Download the mutt-wizard repository to the mutt config directory: git clone https://github.com/lukesmithxyz/mutt-wizard ~/.config/mutt.READ THE README.
- There run mutt-wizard.sh and follow the directions, specifically:
  - · Add an account.
  - Run offlineimap -o in the terminal.
  - Then select the "Autodetect mailboxes" option.

You should then be able to open your mail in mutt with Mod+e. And this is somewhat of a miracle considering all of the moving pieces that have come together to make this happen. Honestly, people give me all this credit for making LARBS, but the mutt-wizard is probably my favorite work.

You can, through the mutt-wizard, schedule automatic mail checks every several minutes. You can also press Mod-F8 at any time to check for new mail in your accounts. You might also want to run notmuch setup to set notmuch up as a mail indexer. This will allow quick searches of your mail in mutt with ctrl+f. The mailsync script will update the notmuch database once you do this.

#### How do I set up my music?

By default, mpd, the music daemon assumes that ~/Music is your music directory. This can be changed in ~/.config/mpd/mpd.conf. When you add music to your music folder, you may have to run mpc up in the terminal to update the database. mpd is controlled by ncmpcpp, which is accessible by Mod+m.

#### **How do I update LARBS?**

LARBS is deployed as a git repository in your home directory. You can use it as such to fetch, diff and merge changes from the remote repository. If you don't want to do that or don't know how to use git, you can actually just rerun the script (as root) and reinstall LARBS and it will automatically update an existing install if you select the

same username. This will overwrite the original config files though, including changes you made for them, but this is an easier brute force approach that will also install any new dependencies.

# **Contact**

- luke@lukesmith.xyz For questions!
- https://lukesmith.xyz For stalking!
- https://lukesmith.xyz/donate To incentivize more development of LARBS!
- My Github Page For the code behind it!
- RSS For updates!