# guerbai's Arch Linux Setup

![效果图](https://raw.githubusercontent.com/guerbai/scene/main/blog/20210928002146.png)

此项目主要是个人使用的Arch Linux初始化脚本，一键安装好常用软件及[suckless dwm](https://suckless.org/)窗口管理器，达到开箱即用的效果，不用再手动解决一个个依赖、配置问题

同时给对Arch Linux或者[Tiling Window Manager](https://en.wikipedia.org/wiki/Tiling\_window\_manager)感兴趣者提供一个示例，以减少\*\*解决繁琐的依赖/配置问题\*\*的时间

脚本会自动配置国内源，并尝试使用一些github仓库的gitee镜像版本

## 软件列表

| 软件名 | 介绍 |

| :---------------------- | ------------------------------ |

| git | 内容版本管理 |

| xrandr | 使用其中的xrandr调整屏幕分辨率 |

| picom | 软件透明化(见效果图) |

| sxiv | 查看图片 |

| xwallpaper | 设置壁纸 |

| scrot | 截图工具 |

| pulseaudio | 音量调节 |

| ranger | 文件管理 |

| firefox | 火狐浏览器 |

| fcitx/fcitx-sogoupinyin | 中文输入法 |

| nerd-fonts-hack | 显示emoji，unicode等字符 |

| unzip | 解压缩工具 |

| rg | 模糊搜索工具 |

| neovim | 代码编辑器 |

| autojump | 快速目录跳转 |

| ohmyzsh | shell环境 |

| zsh-autosuggestions | zsh命令补全 |

| clipmenu | 剪贴板历史 |

| neofetch | 终端显示发行版与系统信息 |

| screenkey | 按键操作可视化 |

| tldr | 快捷命令行工具使用提示 |

| glances | 查看系统运行情况 |

| typora | markdown编辑器 |

suckless的软件及壁纸来自[DistroTube](https://gitlab.com/dwt1)

| 软件名 | 介绍 |

| --------------------------------------------------------- | --------------------- |

| [dwm](https://gitlab.com/dwt1/dwm-distrotube) | Tiling Window Manager |

| [dmenu](https://gitlab.com/dwt1/dmenu-distrotube) | dwm下的应用启动工具 |

| [dwmblocks](https://gitlab.com/dwt1/dwmblocks-distrotube) | dwm状态栏显示配置 |

| [st](https://gitlab.com/dwt1/st-distrotube) | 终端 |

| [wallpapers](https://gitlab.com/dwt1/wallpapers) | 壁纸 |

## 安装使用

\*\*前置依赖\*\*

运行脚本前需要:

- 安装好Arch Linux系统

- 安装好git来获取此repo

\*\*发行版选择\*\*

可以选择Arch-Based桌面发行版(建议选择[Manjaro XFCE](https://manjaro.org/download/))，或根据install.sh中的执行顺序使用UEFI启动方式安装原生Arch Linux

install.sh中分区、visudo等操作需要根据实际情况操作，有相应注释提示

\*\*运行脚本\*\*

```bash

cd ~ # 一定要在~下clone

git clone https://github.com/guerbai/ohmyarch

cd ohmyarch

chmod +x init.sh

bash init.sh

```

\*\*命令支持\*\*

由于国内网络环境问题，安装ohmyzsh或suckless软件时可能会出现超时，可使用如下命令检测安装完成情况：

```bash

bash init.sh check

```

![](https://raw.githubusercontent.com/guerbai/scene/main/blog/20210928010822.png)

若某一项安装出错可使用具体参数重试，具体见[代码](https://github.com/guerbai/ohmyarch/blob/master/init.sh)，比如上述情况，再分别运行：

```bash

bash init.sh suckless

bash init.sh ohmyzsh

```

\*\*启动DWM\*\*

Arch-Based发行版，可重启电脑/注销用户，在登录界面选择Dwm

原生Arch Linux在重启电脑后，输入`startx`

![](https://raw.githubusercontent.com/guerbai/scene/main/blog/20210928011638.png)

DWM基本生存指南见[DWM](https://gitlab.com/dwt1/dwm-distrotube)

\*\*neovim配置\*\*

不会自动配置neovim，可以手动执行，具体配置说明见[vim-ide-solution](https://github.com/guerbai/vim-ide-solution)

```bash

bash init.sh neovim

```

## Arch Linux测试情况

其实没有必要纠结具体是哪个桌面发行版，因为用了suckless这些软件后所有的发行版都长一个样🤣

| 发行版 | 测试情况 |

| ------------- | ------------------------------------------------------------ |

| Arch Linux | 一切正常 |

| Manjaro XFCE | 一切正常 |

| Garuda KDE | 一切正常 |

| Endeavour os | 一切正常 |

| Manjaro Gnome | base-devel无法安装，有`pacman-contrib`的依赖不兼容问题 |

| Archcraft | 无法调节分辨率为1920x1080 |

| Chakra | 无法调节分辨率为1920x1080 |

| Artix | 无法正常安装中文输入法，target not found，此发行版需要特殊的源配置 |

## 鸣谢

- 直接使用了[DistroTube](https://gitlab.com/dwt1)的suckless软件配置并对字体大小稍做微调

- 从[DistroTube](https://www.youtube.com/c/DistroTube)制作的视频中了解到了Tiling Window Manager等概念与基本用法

- 编写脚本过程中时常参考阮一峰编写的[Bash 脚本教程]()

## Have Fun : P

########## archiso

# check net

ping google.com

ping baidu.com

timedatectl set-ntp true

timedatectl status

#fdisk /dev/sda

# 分区: efi(550M), swap, ext4(剩余)，先分再改类型

# g(一次)

# n(三次) +550M +2G remain

# t(change type二次，第三个不用变) 分区1->类型1 分区2->类型19

# w

#mkfs.fat -F32 /dev/sda1

#mkswap /dev/sda2

#swapon /dev/sda2

mkfs.ext4 /dev/sda6

mount /dev/sda6 /mnt

pacstrap /mnt base linux linux-firmware vim zsh dhcpcd git netctl wpa\_supplicant dialog bc sdcv stardict catfish reflector

genfstab -U /mnt >> /mnt/etc/fstab

########## chroot

arch-chroot /mnt

timedatectl set-ntp true

timedatectl set-timezone Asia/Shanghai

timedatectl status

#ln -sf /usr/share/zoneinfo/Asia/Shanghai /etc/localtime

hwclock --systohc

# locale

sudo sed 's/#en\_US.UTF-8 UTF-8/en\_US.UTF-8 UTF-8/' /etc/locale.gen | sudo tee -a temp && sudo mv temp /etc/locale.gen

locale-gen

# host

echo "archlinux" > /etc/hostname

#echo "127.0.0.1 localhost

#::1 localhost

#127.0.1.1 arch.localdomain arch" | tee -a /etc/hosts

# user

passwd

useradd -m -g users -G wheel -s /bin/bash manjaro

passwd manjaro

#usermod -aG wheel,audio,video,optical,storage manjaro

#pacman -S sudo vim

visudo

# 取消注释：%wheel ALL=(ALL) ALL

# boot

pacman -S grub os-prober

#mkdir /boot/EFI

#mount /dev/sda1 /boot/EFI

grub-install --target=i386\_pc /dev/sda

grub-mkconfig -o /boot/grub/grub.cfg

os-prober

#设置网络

#pacman -S networkmanager

#systemctl enable NetworkManager

sudo wifi-menu

pacman -Syy archlinux-keyring alsa-utils pulseaudio-alsa

#### 安装一些软件

pacman -S ranger bash-completion pcmanfm w3m moc firefox firefox-i118-zh-cn wget file-roller plocate cronie at

#### 安装解码器

pacman -S mplayer gst-libav gst-plugins-bad gst-plugins-base gst-plugins-ugly

####安装输入法

sudo pacman -S fcitx fcitx-fonfigtool fcitx-gtk fcitx-qt fcitx-sougoupinyin

####安装字体

pacman -S wqy-microhei wqy-microhei-lite wqy-bitmapfont wqy-zenhei ttf-arphic-ukai ttf-arphic-uming adobe-source-han-sans-cn-fonts

#### 安装桌面环境等

pacman -S xorg xorg-twm xorg-xclock xterm xorg-xinit mesa gvfs gvfs-afc

####安装xfce

pacman -S xfce4 xfce4-goodies slim slim-themes archlinux-themes-slim xdg-user-dirs

echo "exec startxfce4" >> /etc/skel/.xinitrc

cp /etc/skel/.xinitrc /home/manjaro/.xinitrc

chmod +x /home/manjaro/.xinitrc

systemctl enable slim.service

exit

########## archiso

umount -l /mnt

shutdown -h now

GREEN=$(printf '\033[32m')

BLUE=$(printf '\033[34m')

YELLOW=$(printf '\033[33m')

RED=$(printf '\033[31m')

RESET=$(printf '\033[m')

config\_arch\_cn () {

# cn pacman arch version mirror

PACMAN\_MIRROR=$(cat /etc/pacman.d/mirrorlist)

if [[ $PACMAN\_MIRROR != \*"tsinghua"\* ]]; then

sudo cp /etc/pacman.d/mirrorlist /etc/pacman.d/mirrorlist.backup

sudo echo 'Server = https://mirrors.tuna.tsinghua.edu.cn/archlinux/$repo/os/$arch' | cat - /etc/pacman.d/mirrorlist > temp && sudo mv temp /etc/pacman.d/mirrorlist

echo "${BLUE}add tsinghua mirror success${RESET}"

fi

PACMAN\_CONF=$(cat /etc/pacman.conf)

if [[ $PACMAN\_CONF != \*"archlinuxcn"\* ]]; then

echo "[archlinuxcn]

SigLevel = Never

Server = https://mirrors.tuna.tsinghua.edu.cn/archlinuxcn/\$arch" | sudo tee -a /etc/pacman.conf

echo "${BLUE}add archlinuxcn success${RESET}"

fi

sudo pacman -Sy

}

DIR=$(pwd)

. "$DIR/dependency.sh"

. "$DIR/common/wallpaper.sh"

. "$DIR/suckless-distrotube.sh"

. "$DIR/scripts/dispatch.sh"

. "$DIR/common/v2ray.sh"

. "$DIR/common/autojump.sh"

. "$DIR/common/ohmyzsh.sh"

. "$DIR/common/neovim.sh"

. "$DIR/config/config.sh"

. "$DIR/check.sh"

if [[ $1 == "check" ]]; then

check\_all

elif [[ $1 == "depencency" ]]; then

install\_dependency

elif [[ $1 == "wallpaper" ]]; then

install\_wallpaper

elif [[ $1 == "suckless" ]]; then

install\_suckless\_distrotube

elif [[ $1 == "ohmyzsh" ]]; then

install\_ohmyzsh

elif [[ $1 == "autojump" ]]; then

install\_autojump

elif [[ $1 == "neovim" ]]; then

init\_neovim

else

config\_arch\_cn

install\_dependency

install\_wallpaper

install\_suckless\_distrotube

install\_v2ray

install\_ohmyzsh

install\_autojump

dispatch\_scripts

init\_config

check\_all

fi

echo "${GREEN}Arch Linux Init Success, Have Fun :P${RESET}"

declare -A CHECK\_FILES

CHECK\_FILES=(

["yay"]="/usr/bin/yay"

["picom"]="/usr/bin/picom"

["picom-config"]="$HOME/.config/picom/picom.conf"

["ohmyzsh"]="$HOME/.oh-my-zsh/oh-my-zsh.sh"

["fcitx"]="/usr/bin/fcitx"

["fcitx-configtool"]="/usr/bin/fcitx-configtool"

["autojump"]="$HOME/.autojump/etc/profile.d/autojump.sh"

["nvim"]="/usr/bin/nvim"

["pulseaudio"]="/usr/bin/pulseaudio"

["wget"]="/usr/bin/wget"

["curl"]="/usr/bin/curl"

["firefox"]="/usr/bin/firefox"

["locale\_conf"]="/etc/locale.conf"

["xinitrc"]="$HOME/.xinitrc"

# ["fish"]="/usr/bin/fish"

# ["fish-config"]="$HOME/.config/fish/config.fish"

# ["starship"]="/usr/bin/starship"

# ["starship-config"]="$HOME/.config/starship.toml"

# ["dmenu"]="/usr/local/bin/dmenu"

# ["dwm"]="/usr/local/bin/dwm"

# ["dwmblocks"]="/usr/bin/dwmblocks"

# ["st"]="/usr/bin/st"

)

declare -A CHECK\_DIRS

CHECK\_DIRS=(

["v2ray-core"]="$HOME/.config/qv2ray/vcore"

["wallpapers"]="$HOME/Pictures/wallpapers"

["zsh-autosuggestions"]="$HOME/.oh-my-zsh/custom/plugins/zsh-autosuggestions"

["dmenu"]="/opt/dmenu-distrotube-git"

["dwm"]="/opt/dwm-distrotube-git"

["dwmblocks"]="/opt/dwmblocks-distrotube-git"

["st"]="/opt/st-distrotube-git"

["ranger"]="$HOME/.config/ranger"

)

function check\_file\_exist {

for key in "${!CHECK\_FILES[@]}"; do

if [[ $key == $1 ]]; then

if [ -e ${CHECK\_FILES[$key]} ]; then

return 0

else

return 1

fi

fi

done

return 1

}

function check\_dir\_exist {

for key in "${!CHECK\_DIRS[@]}"; do

if [[ $key == $1 ]]; then

if [ -d ${CHECK\_DIRS[$key]} ]; then

return 0

else

return 1

fi

fi

done

return 1

}

check\_all () {

for key in "${!CHECK\_FILES[@]}"; do

if !(check\_file\_exist $key); then

echo "${RED}check failed: $key${RESET}"

fi

done

for key in "${!CHECK\_DIRS[@]}"; do

if !(check\_dir\_exist $key); then

echo "${RED}check failed: $key${RESET}"

fi

done

}