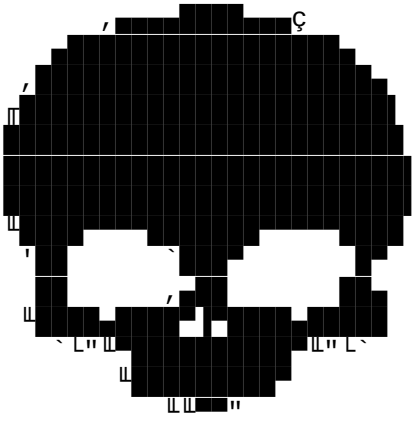
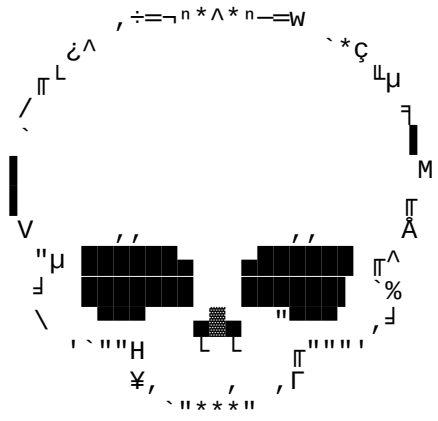
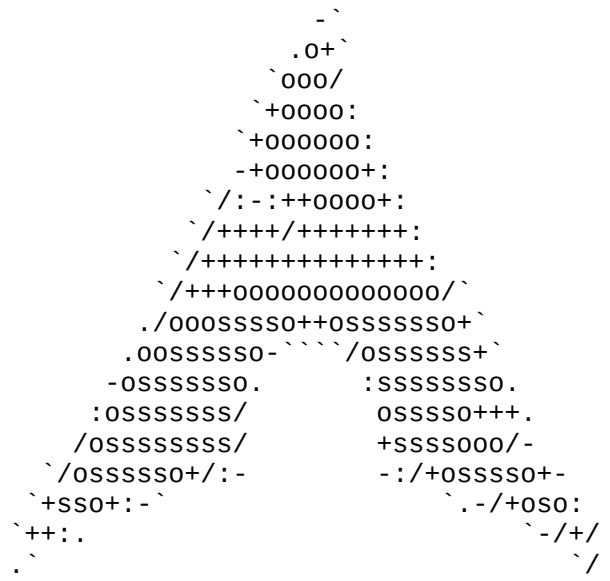




SlickRick & Slingblade



PRESENT

THE ARCH LINUX

UNIXPORN

INSTALLATION GUIDE

US EDITION

© 2023

```
#############################################################################################
#                                                                                           #
#                                                                                           #
#                                                                                           #
#                                  BASE INSTALLATION                                        #
#                                     UEFI SYSTEM                                           #
#                                                                                           #
#                                                                                           #
#                                                                                           #
#############################################################################################


######################
#                    #
# WIRELESS INTERNET #
#                    #
######################


rfkill unblock wlan

iwctl

device list

adapter phy0 set-property Powered on

station wlan0 scan

station wlan0 get-networks

station wlan0 connect SSID

ping archlinux.org


######################
#                    #
# START INSTALLATION #
#                    #
######################


setfont ter-132n

timedatectl set-ntp true

timedatectl status


ls /sys/firmware/efi/efivars

## IF DIRECTORY DOES NOT EXIST CONFIGURE EFI IN BIOS
```

```
fdisk -l


#########################################################
#                                                       #
# Example Output:                                       #
#                                                       #
# NAME MAJ:MIN RM   SIZE RO TYPE MOUNTPOINTS            #
# loop0  7:0    0 687.9M  1 loop /run/archiso/airootfs #
# sda    8:0    0    20G  0 disk                        #
# sr0   11:0    1 809:3M  0 rom                         #
# sr1   11:1    1 809.3M  0 rom  /run/archiso/bootmnt   #
#                                                       #
#########################################################


OPEN fdisk UTILITY AND CREATE A NEW GPT DISK LABEL



fdisk /dev/sda  <----  fdisk /dev/NAMEofyourdevice

Type g [Enter]


#############################################################################################
#                                                                                           #
# Partition Scheme:                                                                         #
#                                                                                           #
# /mnt/boot1 /dev/efi_system_partition  EFI system partition    300MiB         #
# [SWAP]     /dev/swap_partition        Linux swap              4GB            #
# /mnt       /dev/root_partition        Linux x86-64 root (/)   Rest of Device #
#                                                                                           #
#############################################################################################


CREATE THE BOOT PARTITION WITH 300MB


Type n [Enter]  <---- option to create a new partition

Hit [Enter]     <---- selects default parition 1

Hit [Enter]     <---- confirms the starting point of the partition

Type +300M      <---- value from starting point to end point of the partition

Hit [Enter]     <---- sets end point for the partition 300MB from start point
```

CREATE THE SWAP PARTITION WITH 16GB

Type n [Enter]

Hit [Enter]

Hit [Enter]

Type +16G

Hit [Enter]

CREATE THE MAIN PARTITION

Type n [Enter]

Hit [Enter]

Hit [Enter]

Hit [Enter]

w [Enter]   <---- If you have been deleting the signature

fdisk /dev/sda

```
########################
#                      #
# SET FILESYSTEM TYPE #
#                      #
########################
```

SET BOOT PARTITION TO EFI System

Type t [Enter]

Type 1 [Enter]

Type 1 [Enter]

SET SWAP PARTITION TO Linux Swap

Type t [Enter]

Type 2 [Enter]

Type 19 [Enter]

WRITE TABLE TO DISK AND EXIT

Type w [Enter]

```
mkfs.fat -F 32 /dev/sda1 <---- mkfs.fat -F 32 /dev/nameofbootpartition
mkswap /dev/sda2         <---- mkswap /dev/nameofswappartition
mkfs.xfs /dev/sda3       <---- mkfs.xfs /dev/nameofprimarypartition

mount /dev/sda3 /mnt
mount --mkdir /dev/sda1 /mnt/boot
swapon /dev/sda2

pacstrap -K /mnt base linux linux-firmware

genfstab -U /mnt >> /mnt/etc/fstab
arch-chroot /mnt
ln -sf /usr/share/America/Chicago /etc/localtime
hwclock --systohc

pacman -S vim
vim /etc/locale.gen
```

Find the line that says:

```
#en_US.UTF-8 UTF-8
 ^---- move cursor here
```

hit [i]   <----   INSERT MODE

hit [backspace]

hit [Esc]

[Shift] + [:]   <----   the 2 dots

type wq Hit [Enter]

locale-gen

echo arch > /etc/hostname <---- change are vbox to the name of your computer

vim /etc/hosts

##This text file already has text in it do not erase any of the text

hit [i]   <----   INSERT MODE

arrow ----> until you are past the period [.] on the second line

Hit [Enter]

```
127.0.0.1     localhost <---- hit [Tab] between 1 and l
::1           localhost <---- hit [Tab] 2 times between 1 and l
127.0.1.1     arch.localdomain     arch <---- hit [Tab] between 1 and a
                                                  ^---- between n and a
```

[Shift] + [:]   <----   the 2 dots

Type wq [Enter]

passwd [Enter]   <----   set the root user password

type password [Enter]

type password [Enter]

pacman -S grub

pacman -S efibootmgr dosfstools os-prober mtools

grub-install --target=x86_64-efi --efi-directory=/boot --bootloader-id=GRUB

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

```
#############
#           #
# WIRED LAN #
#           #
#############
```

```
pacman -S networkmanager

systemctl enable NetworkManager.service

exit

shutdown now
```

```
####################
#                  #
# WIRELESS NETWORK #
#                  #
####################
```

```
pacman -S iwd

systemctl enable iwd.service

pacman -S dhcpcd

systemctl enable dhcpcd.service

systmectl enable systemd-resolved.service

exit

ln -sf /run/systemd/resolve/stub-resolv.conf /mnt/etc/resolv.conf

shutdown now
```

```
#########################
#                       #
# SYSTEM ADMINISTRATION #
#                       #
#########################


login: root

password: yourpassword


###############
#             #
# PACMAN CONF #
#             #
###############


sudo vim /etc/pacman.conf

hit [i]

# Misc options
#UseSyslog
Color      <---- uncomment this [remove #]
ILoveCandy <---- add this
#NoProgressBar
Checkspace
#VerbosePkgLists
ParallelDownloads = 10

hit [Esc]

[Shift] + [:] <---- the two dots

type wq [Enter]


#################################
#                               #
# GRAPHICS DRIVER INSTALLATION #
#                               #
#################################


pacman -Ss mesa

sudo pacman -S mesa <---- ONLY IF NECESSARY
```

```
############
#          #
# ADD USER #
#          #
############


useradd -m username

passwd username

usermod -aG wheel,audio,video,optical,storage,lp username

pacman -S sudo

EDITOR=vim visudo

scroll down to:

#%wheel ALL=(ALL:ALL) ALL
  ^---- place your cursor under the %

hit [i]

hit [Backspace]

%wheel ALL=(ALL:ALL) ALL <---- it should look like this now

hit [Esc]

[Shift] + [:] <---- the two dots

Type wq [Enter]

exit

LOGIN AS YOUR USER



####################
#                  #
# USB AUTOMOUNTING #
#                  #
####################



sudo pacman -S udisks2

sudo pacman -S udiskie

sudo pacman -S ntfs-3g

udiskie <---- you may want to test with this
```

```
##############
#            #
# AUR HELPER #
#            #
##############
```

```
sudo pacman -S git

sudo pacman -S --needed base-devel

git clone https://aur.archlinux.org/paru.git

cd paru

makepkg -si
```

```
#########
#       #
# AUDIO #
#       #
#########
```

```
sudo pacman -S pipewire-alsa

sudo pacman -S pipewire-pulseaudio

sudo pacman -S pipewire-jack

sudo pacman -S wireplumber

sudo pacman -S pavucontrol <---- slingblade needs
```

```
#############
#           #
# MICROCODE #
#           #
#############
```

```
sudo pacman -S intel-ucode

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

```
########################
#                      #
# DESKTOP ENVIRONMENTS #
#                      #
########################


############
#          #
# HYPRLAND #
#          #
############


sudo pacman -S hyprland

sudo pacman -S xdg-desktop-portal

sudo pacman -S polkit-kde-agent

sudo pacman -S qt5-wayland

sudo pacman -S qt6-wayland

paru -S librewolf

sudo pacman -S alacritty

sudo pacman -S thunar

sudo pacman -S polkit-kde-agent

/usr/share/hyprland/hyprland.conf

exec-once=/usr/lib/polkit-kde-authentication-agent-1

RETURN is the equivalent of [Enter] for keybindings

vim .bashrc

alias ee='hyprctl dispatch exit'
```

```
##############
#            #
# KDE PLASMA #
#            #
##############


sudo pacman -S xorg-server

sudo pacman -S xorg-xinit

sudo pacman -S plasma-desktop

cp /etc/X11/xinit/xinitrc ~/.xinitrc

vim .xinitrc

APPEND

export DESKTOP_SESSION=plasma

exec startplasma-x11
```

```
#############
#           #
# REFLECTOR #
#           #
#############
```

```
sudo pacman -S reflector

cd /etc/xdg/reflector

sudo vim reflector.conf

hit [i] <---- INSERT MODE

# --country France,Germany <---- uncomment

should now be:

--country 'United States'

set:

--latest 50

--sort age

--sort rate

hit [Esc]

[Shift] + [:] <---- the two dots (turn the page)
type wq [Enter]

sudo systemctl enable reflector.service

sudo systemctl start reflector.service

sudo systemctl enable reflector.timer

sudo systemctl start reflector.timer
```

```
############
#          #
# PRINTERS #
#          #
############
```

```
sudo pacman -S cups

sudo systemctl enable --now cups

sudo pacman -S system-config-printer

paru -S brother-hll2395dw

localhost:631

Administration

Add Printer

Click Internet Printing Protocol "IPP"

Continue

Connection: ipp://192.168.6.93

BrotherPrinter

Brotherhll2395dw

ComputerRoom

Make: Brother

Click Continue

IPP Everywhere

Click Add Printer
```

```
############
#          #
# PACCACHE #
#          #
############
```

```
sudo pacman -S pacman-contrib

sudo paccache -r

sudo systemctl enable paccache.timer

sudo systemctl start paccache.timer
```