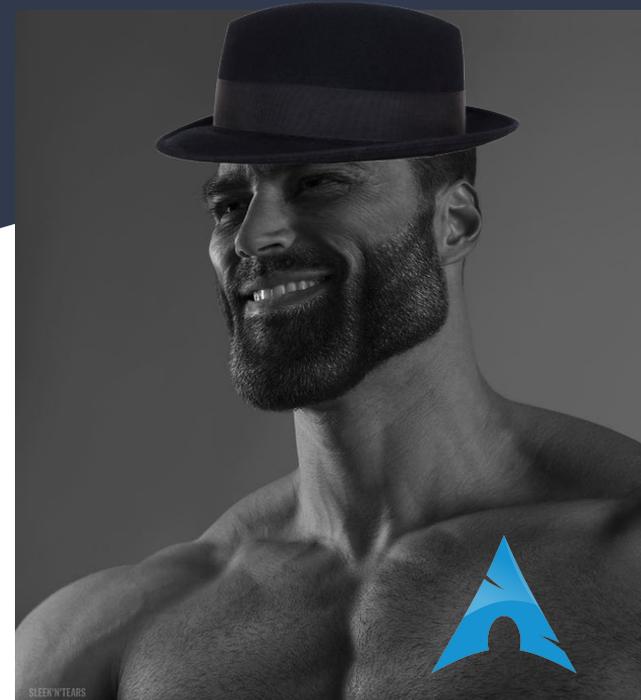
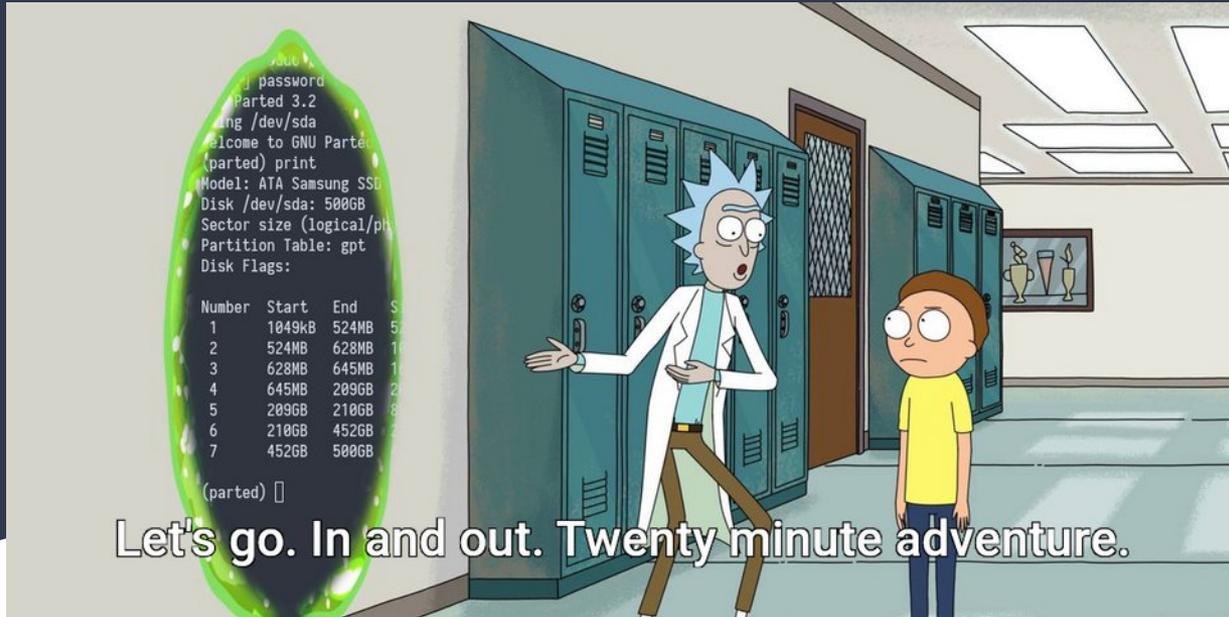


# How to Become an Arch Linux Sigma Chad

9/23/2022 - Henry Keena (Vice Supreme Penguin)



# What is Arch Linux?



- Started in 2002 as a “Minimalist Distro”, inspired by CRUX
- Officially runs on x86-64 systems, but runs unofficially on a bunch of other platforms (i686, ARM, etc.)
- Based on a “Rolling Release” Model
- Arch Users
  - “The Hard Distro”
  - “I use Arch by the way...”
- Has spawned/inspired a number of derivative Distributions:
  - Manjaro
  - Antergos & EndeavourOS
  - BlackArch
  - ArchLabs
  - SteamOS 3.0 (yes, your Steam Deck runs Arch)



Judd “Sigma Chad” Vinet





# pacman



- The official “package manager” of Arch Linux
- LOTS of official package repositories:
  - *core*
  - *extra*
  - *community*
  - *Multilib*
- Arch Linux AUR:
  - The “Arch User Repository”
  - <https://aur.archlinux.org/>
  - Lots of third-party software
  - Even more packages, but with a catch(es)
    - Build it yourself
    - “sECuRiT\_Y RiSk”
    - `makepkg -si`
- Examples:
  - Package Install: `pacman -S package_name`
  - System Update: `pacman -Syyu`

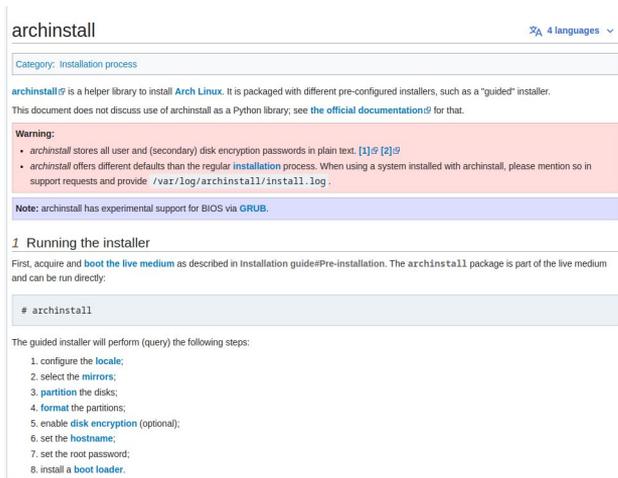


```
dupeman@dupeman-LinuxPrime ~-> pacman -h
usage:  pacman <operation> [...]
operations:
  pacman {-h --help}
  pacman {-V --version}
  pacman {-D --database} <options> <package(s)>
  pacman {-F --files} [options] [file(s)]
  pacman {-Q --query} [options] [package(s)]
  pacman {-R --remove} [options] <package(s)>
  pacman {-S --sync} [options] [package(s)]
  pacman {-T --deptest} [options] [package(s)]
  pacman {-U --upgrade} [options] <file(s)>

use 'pacman {-h --help}' with an operation for available options
```

# Installing Arch

- There are two official/main ways to install Arch:
- 'archinstall' - ("eAsY mOd3")
  - <https://wiki.archlinux.org/title/archinstall>



The screenshot shows the Arch Linux wiki page for 'archinstall'. At the top, it says 'archinstall' with a language selector for 4 languages. Below that, it categorizes it as 'Installation process'. A description states that archinstall is a helper library to install Arch Linux, packaged with different pre-configured installers. A warning box highlights that archinstall stores user and secondary disk encryption passwords in plain text and offers different defaults than the regular installation process. A note mentions experimental support for BIOS via GRUB. The page is divided into sections: '1 Running the installer', which includes instructions to acquire and boot the live medium, and a terminal snippet showing '# archinstall'. Below the terminal snippet, it lists the steps the guided installer will perform: 1. configure the locale; 2. select the mirrors; 3. partition the disks; 4. format the partitions; 5. enable disk encryption (optional); 6. set the hostname; 7. set the root password; 8. install a boot loader.

- "The Good Ol' Fashioned Way" - (SICKO MODE)
  - [https://wiki.archlinux.org/title/installation\\_guide](https://wiki.archlinux.org/title/installation_guide)

## 1 Pre-installation

- 1.1 Acquire an installation image
- 1.2 Verify signature
- 1.3 Prepare an installation medium
- 1.4 Boot the live environment
- 1.5 Set the console keyboard layout
- 1.6 Verify the boot mode
- 1.7 Connect to the internet
- 1.8 Update the system clock
- 1.9 Partition the disks
  - 1.9.1 Example layouts
- 1.10 Format the partitions
- 1.11 Mount the file systems

## 2 Installation

- 2.1 Select the mirrors
- 2.2 Install essential packages

## 3 Configure the system

- 3.1 Fstab
- 3.2 Chroot
- 3.3 Time zone
- 3.4 Localization
- 3.5 Network configuration
- 3.6 Initramfs
- 3.7 Root password
- 3.8 Boot loader

## 4 Reboot

## 5 Post-installation

Install Demo

# Questions?

