Installation Process

Base Install

This portion of the installation is concerned with installing a bare Arch Linux environment with persistent internet and filesystem. The process consists of these steps:

- Partitioning the drive to store the boot loader and root partition (no swap included)
- Formatting the drives (different partitions we just created) so we can properly use them
- Mounting the newly created filesystem to mount in a way where both partitions get the files they need
- Install all the necessary components for an Arch Linux install and the develpment tools because I will need them
- Tell fstab where all of the drives are
- Setting the correct timezone
- Only using English locales
- Setting hostname and the ability to ping yourself ;P
- Installing GRUB
- Internet persistence using dhcpcd
- Unmounting and rebooting

Running this portion

```
curl -sL https://git.io/fjVo3 | bash
```

Desktop Install

Here we are installing the next layer which is the graphical environment. Here we are allowed to install applications, create users and make edits to configuration files. This process consists of these steps:

- Installing the necessary packages and users for a smooth install
- Create the actual user we are going to use permanently (i.e) jared)
- Configuring the terminal (zsh,vim,ranger,urxvt)
- Installing the necessary layers for a graphical installation to work (setting the correct greeter so it looks nice)
- Install "proper" themes
- Install configuration files for various programs (git,cinnamon,ranger,scripts)
- Add proper home folder things (Projects added here as well)
- Install user applications like Spotify, VLC, Discord, etc.
- Other useful tools used infrequently

Running this portion

```
curl -sL https://git.io/fjVKo | bash
```

Hardware Configuration

The Dell XPS 15 has some quirks that need to be addressed such as the power hungry GTX 1050 graphics card. Since I program and not a graphic designer, we can safely disable this component. This process includes:

- Setting up a service that tells the kernel to not load the graphics card at start up so we don't have to do it every time
- Power saving help from tlp

Running Tests

Code

```
curl -sL https://git.io/fjwVT | bash
```