

Intro to Linux

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What is Linux??

Technically, it is the *kernel* that is used in lots of operating systems, such as **Ubuntu** or **Manjaro**

It handles lot of **lower level** stuff, such as making sure your computer can talk to USBs, external drives, etc (boring stuff :P)

Most Linux-based operating systems are *Open Source* - all parts of them are public, and none of the code is private (more or less)

This means anyone can audit, modify, or contribute to the code

Who is Linus??

The guy who made Linux! It is open source, so lots of people now work on it now.
He also made *git* to help with the Linux project.

Internet

If you are not even able to select a wifi network, then see one of us after (most likely a driver issue)

Otherwise, connect to `ND-Guest` and navigate to `https://oit.nd.edu/services/network/` and click "Configure my device to use eduroam"

You are going to download a file from that page. Then, open the terminal application, and navigate to your downloads folder

Open the terminal app

```
cd ~/Downloads
```

Run the script

```
bash [SCRIPT_NAME]
```

It will prompt you with some login stuff. Follow the directions then you are all set!

Application Center

You can download apps! Open up the app store, and download them.

Otherwise, you can download programs from *most* place's websites - they usually have a version for Linux

Command Line Package Management

A **lot** of other programs are available via the package manager `apt`, which is the default one for Ubuntu.

(`pacman` is the default for Manjaro)

use

```
sudo apt-get update
```

to update apt

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use

```
sudo apt-get upgrade
```

to upgrade all the programs you installed with `apt`

use

```
sudo apt-get install [PACKAGE]
```

to install anything else

note: `sudo` is like running things as admin - be careful if sketchy things online say to run a program using `sudo` !

ALSO - you cannot use `sudo` on the student machines! Don't try!

there are other ways to install apps, such as using `npm` (for Node apps) or `gem` (Ruby apps)

If there is some obscure program, you might have to compile it from source.
GitHub etc has a lot of cool projects!

Printing

go to `print.nd.edu`

Customization


You can edit the look and feel of Ubuntu with the `gnome-tweak-tool` !



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Install it with `apt`

```
sudo apt-get install gnome-tweak-tool
```

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You want to put themes you download in a directory labeled `.themes` in your home directory (`~/ .themes`)

You should make sure that your file browser is showing *hidden files*

You can also download extensions for further customization:

```
sudo apt-get install gnome-shell-extensions
```

Make sure to reboot after doing this for the changes to take effect

If you want more extensions, you will need to

1. Get the browser extension for the **GNOME Shell**

2. Download `sudo apt-get install chrome-gnome-shell`

* Note, this has nothing to do with the Chrome browser

You can take advantage of all the extensions on <https://extensions.gnome.org>

These extensions, once installed, can be managed via this website, or the tweak tool

MISC

If you want to download more fonts / icons...

- fonts go into `~/ .fonts`
- icons go into `~/ .icons`