

Installation of Ligplot+ on Ubuntu

Author : Muniba Faiza

Categories : [Softwares](#), [Tools](#)

Date : March 17, 2020

Ligplot⁺ is a bioinformatics software to visually analyze the protein-ligand interactions in 2D [1]. It requires a Java interface to run and can be executed on Ubuntu, Windows, and macOS. In this tutorial, we will install Ligplot⁺ on Ubuntu.

Preparing

At first, update and upgrade your system using the following commands:

```
$ sudo apt-get update  
$ sudo apt-get upgrade
```

Also, Ligplot⁺ requires the latest version of the Java SE Runtime Environment (JRE) which can be found [here](#).

Downloading Ligplot⁺

The latest version of Ligplot [2] can be downloaded from [here](#). You have to register yourself first which will be valid for a year. It can be easily downloaded again.

Installing

Open a terminal and change to the directory where you have downloaded the software. Let's say here it is 'Downloads'.

```
$ cd Downloads  
  
$ unzip ligplus.zip
```

Executing Ligplot+

Open a terminal and type the following command:

```
$ java -cp /path/ -jar ligplus.jar
```

here /path/ is the path to the directory where the Ligplus.jar file is located.

It will open the ligplot+.

You can also create an alias.

Open the terminal and type the following commands:

```
$ sudo gedit ~/.bashrc
```

It will open the bashrc file, go to the end of the file and add the following command:

```
export ligplus='java -cp /usr/bin/ligplus/ -jar /usr/bin/ligplus/ligplus.jar'
```

Save the file, go back to the terminal and type:

```
$ source ~/.bashrc
```

For c-shell, use the following command:

```
alias ligplus='java -cp /usr/bin/ligplus/ -jar /usr/bin/ligplus/ligplus.jar'
```

To start, Ligplot+, type `$ ligplus` in a terminal.

References

1. Laskowski, R. A., & Swindells, M. B. (2011). LigPlot+: multiple ligand-protein interaction diagrams for drug discovery.
2. Wallace, A. C., Laskowski, R. A., & Thornton, J. M. (1995). LIGPLOT: a program to generate schematic diagrams of protein-ligand interactions. *Protein engineering, design and selection*, 8(2), 127-134.

Sharing is caring. Spread the love!

- [Print](#)
- [Email](#)
- [LinkedIn](#)
- [Twitter](#)
- [Facebook](#)

- [Google](#)

-