

Installation to use GUI

What to set up

You need two python packages to use this GUI.

- pykat
- Pysimplegui

The simulation of this GUI tool is done by using "finesse".

“pykat” is used in python to use “finesse”.

“Pysimplegui” is simply used to display GUI screen.

Anaconda3

- Download the Anaconda3 and install it.
<https://www.anaconda.com/products/individual>
- It is recommended that you create a virtual environment for anaconda to prepare a python environment to use this GUI.

Creating a virtual environment in Anaconda

- Enter this command in terminal or anaconda prompt

```
% conda create --name XXXXX python=3.7.6
```

- Please give XXXXX an appropriate name that is easy to understand. XXXXX will be the name you will call later when you activate this virtual environment.

- To switch this virtual environment, you can use the following command.

```
% conda activate XXXXX
```

```
% conda deactivate
```

Commands with "%" at the beginning of the line indicate that they are entered directly into a terminal. Enter the commands after "%".

pykat

- To install Finesse and PyKat using conda, type the following command.

```
% conda install -c gwoptics pykat=1.2.1
```

Pysimplegui

- To install GUI package using conda, type the following command.

```
% conda install -c conda-forge pysimplegui=4.28.0
```