

Installing GlueViz for the N8 Course in January 2022

The best way to get **GlueViz** is to install Anaconda (<https://www.anaconda.com/>) which is an open-source distribution of the Python programming language, bundled with multiple packages aimed at scientific computing, including statistics data science and machine learning. It can also be installed using the Python only package manager Pip.

Anaconda is available for Windows, Linux and Mac, and has its own package manager **conda**. Anaconda can be installed as a user package (for a single user) or as a system package (requires administrator rights). The packages in Anaconda may be older versions than are currently available, this is because they all must be multiplatform integrated.

GlueViz can be installed graphically using the Anaconda Navigator, but this is difficult to debug and installs in your base environment, which can cause other problems. It is therefore best to construct a new blank environment in which to install GlueViz. This also ensures that the appropriate versions of python and libraries are available.

To install Anaconda go to <https://docs.anaconda.com/anaconda/install/index.html> then download and run the appropriate installer. Once Anaconda is installed, the process is to use a command Window to update, create an environment, and install GlueViz. On Windows find Anaconda on the start menu, then select either the PowerShell Prompt or the Prompt (or Window Bash shell of your choosing). Then run:

```
conda update --all
```

To create and activate a new conda environment run:

```
conda create --name <your env name> --no-default-packages
```

The name of the environment should appear in the prompt, if this doesn't happen run:

```
conda activate <your env name>
```

You can navigate environments using

```
conda activate <name>
```

```
conda deactivate
```

Environments work as a stack so when you deactivate to drop back into your previous environment. You can list all your environments using the command:

```
conda info --envs
```

To install GlueViz type

```
conda install -c glueviz glueviz=1.2
```

To run type the following in the command tool:

```
glue
```

This will start GlueViz and create a configuration directory '.glue' in your home directory. If you have previously used GlueViz outdated configuration files can cause problems, when starting.