

Installation guide for REBOUND and REBOUNDx

In the following, we present the necessary steps to install rebound on Linux, macOS or windows. It is not recommended to try to do the programming experiment on a padlet running android or iPadOS.

Installation on Linux and macOS

The installation on macOS and Linux is straight forward and simple, especially for python. First install a python environment, either via homebrew on macOS or with the specific package manager of your linux distribution. Alternatively, you can also install the anaconda python environment, see <https://www.anaconda.com/download#>.

I recommend to use a virtual environment via the venv module and install the rebound module via pip.

```
1 python3 -m venv ${HOME}/local/python3_venv
```

Activate the virtual environment

```
1 source ${HOME}/local/python3_venv/bin/activate
```

and install all important modules via pip

```
1 pip install matplotlib rebound numpy scipy pandas
```

After installing rebound, you can install reboundx REBOUNDx. Please do this after installing rebound

```
1 pip install reboundx
```

You may want to install additional packages like pandas, etcpp. according to your needs.

The installation of the C version is also straight forward for rebound

```
1 git clone https://github.com/hannorein/rebound.git && cd rebound/examples/shearing_sheet && make && ./rebound
```

and reboundx

```
1 git clone https://github.com/dtamayo/reboundx.git
```

However, we will only use the python version, so you might want to skip this installation.

For more information about the installation on macOS and Linux, please see the official docs.

Installation on windows

The open source software package REBOUND is now also supported on windows, please see https://rebound.readthedocs.io/en/latest/quickstart_installation/#running-rebound-on-windows.

The easiest way to install a working python environment on windows is probably to go for the vscode installation, see <https://code.visualstudio.com/docs/python/python-quick-start> with a subsequent installation of rebound via pip.

Alternatively, you can first install the anaconda python environment and use the integrated editor spyder, see <https://www.anaconda.com/download>.