**Getting started with FaIRv2.0**

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I have written a simplified I/O for the python beginner, to aid getting to grips with the FaIRv2.0 model code. In order to take the first steps in understanding how to run the model and interpret the output, first there is some housekeeping in the installation of python and required modules.

**First steps – Installing Python (on a mac)**

You first will want to install anaconda. This can be done from: <https://www.anaconda.com/downloads#macos>

Next, you will want to enter terminal (search applications for ‘Terminal’). For the beginner think of the terminal as a text interface with the computer. Here type:

conda create --name myenv

This will create a conda environment with this name. Set this as your target, and use commands:

source activate myenv

To install python, numpy, scipy, pyam, pandas and matplotlib use the commands:

conda install python numpy scipy pandas matplotlib

Finally, to set the conda environment to be able to open ipython notebooks, we should install jupyter notebooks:

conda install -c conda-forge notebook

**Launching notebook and running FaIRv2.0**

Now we can use this terminal window, with the environment set to the environment we just created, to launch and use jupyter notebooks.

jupyter notebook

Once open, navigate to the folder containing the GIR/FaIRv2.0 model code, which can be downloaded from the github: <https://github.com/njleach/GIR>

In the subfolder GIR\_model\_simple we enter the ipynb file testing GIR\_model\_simple, which contains a short guide to the model and how to get started running carbon dioxide emissions profiles, with other radiative forcing, to get output, and plot said output.