Prior requirements

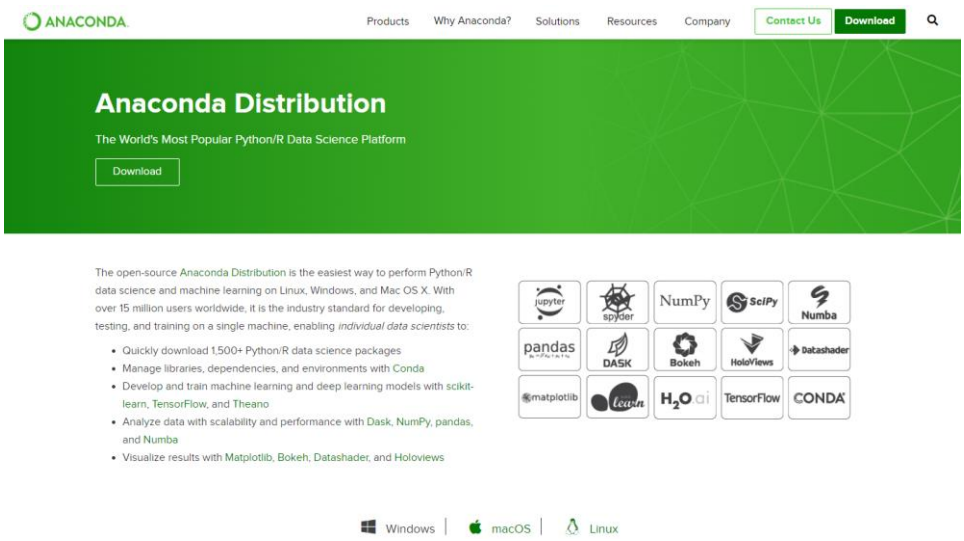
Python and Pyomo

Before running the script, you must make sure that you have installed Python 3.7 on your PC and that you have all following libraries:

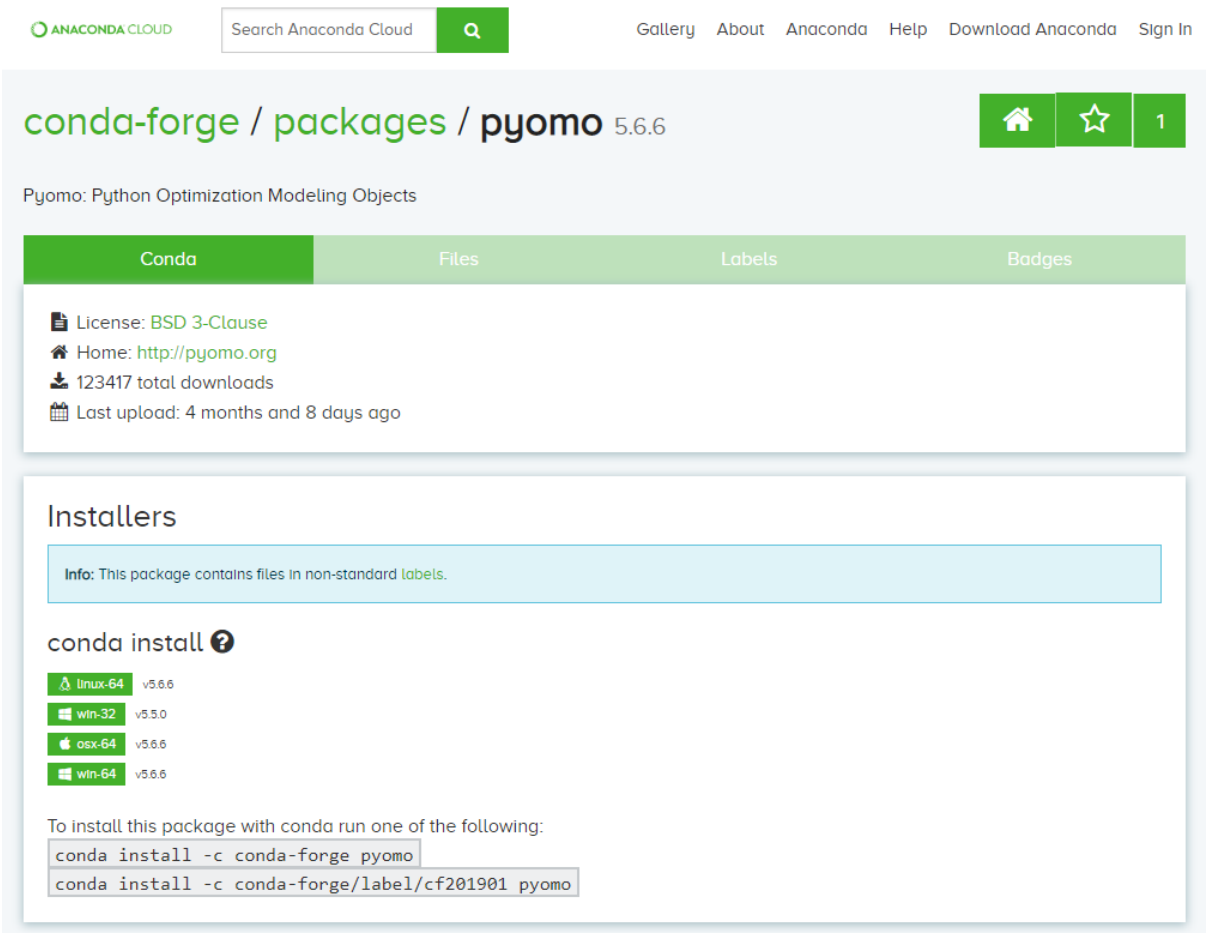
- numpy
- pandas
- random
- math
- matplotlib
- pyomo
- sys

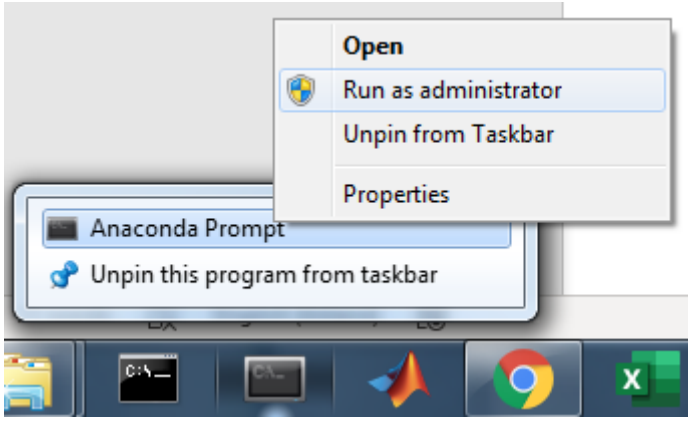
We recommend installing the latests version of Anaconda that can be found in:

https://www.anaconda.com/distribution/



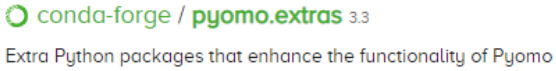
If installing Anaconda, you only need to install the pyomo library, this can be done from the Anaconda prompt using the command described in Anaconda Cloud





Remember to run as administrator

It is recommended to also install the pyomo.extras package:

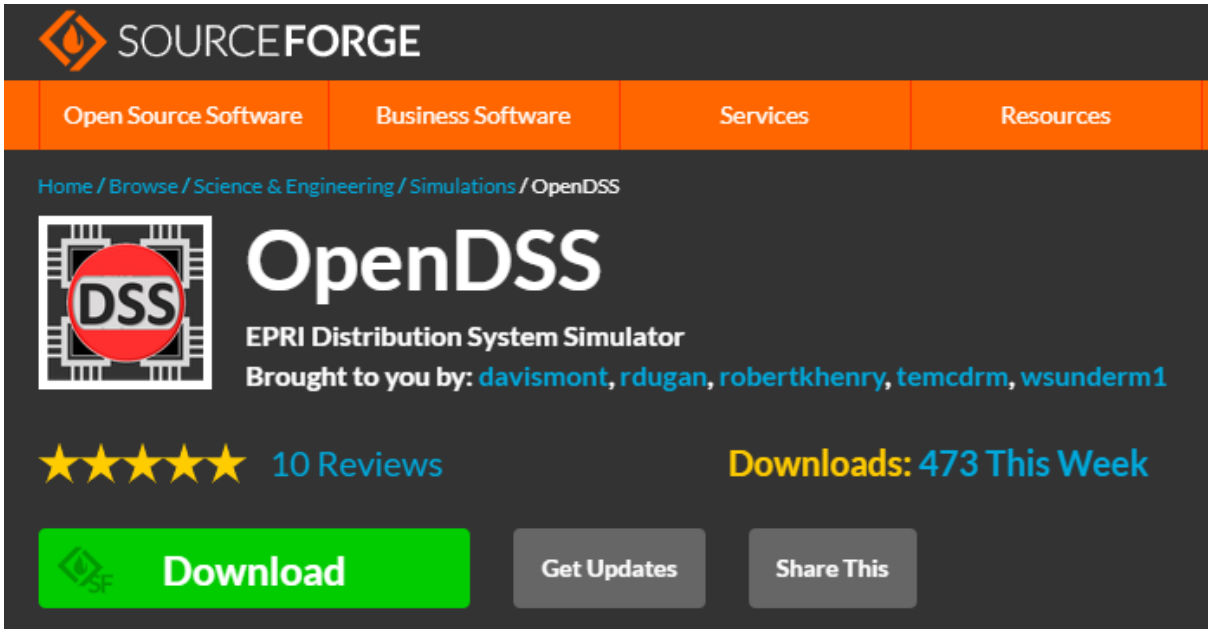


Solvers

You can try using IPOPT to solve simple problems (a few constraints and time steps). However, IPOPT will struggle with large problems. To install IPOPT, look for the command in Anaconda Cloud as for the pyomo library

OpenDSS

OpenDSS can be download from Sourgeforce



Important!

The python script automatically identifies the path of all folders in the script. Therefore, the complete package can be included in any folder of your PC. However, there cannot be spaces in the path. Example:

C:\Projects\OpenDSS_OPF_tool\ver_02 **RIGHT**

C:\Projects\OpenDSS OPF tool\ver 02 **WRONG**