

Installing Pyomo and solver to solve optimization in your machine

1. I assume that at this point you have XCODE Installed in you machine. If so proceed to the next step. Otherwise, install XCODE before step 2.
2. Install **Pyomo**. Open your Mac terminal and type (or paste) the following command:

```
pip install pyomo
```

Pyomo is a Python-based open-source software package that supports a diverse set of optimization capabilities for formulating, solving, and analyzing optimization models.

3. Install **Homebrew**
From the Mac terminal type (or paste) the following command:

```
/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install.sh)"
```

This is just preparing your machine for the solver installation in step 3. It will help the solver configuration.

4. Pyomo does not include any optimization solvers. Therefore you will need to install third-party solvers to solve optimization models built with Pyomo. There are several solver options, for this class we will use coin coin CBC.
Download and Install **CBC Solver** from Github Repository (<https://github.com/coin-or/Cbc>)
From the Mac terminal, after Homebrew is installed, type (or paste) the following commands:

```
brew tap coin-or-tools/coinor
```

```
brew install coin-or-tools/coinor/cbc
```