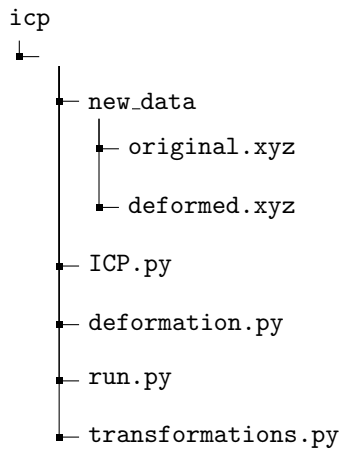


# 3D Point-Cloud Registration Exercises and Demos [HELP]

## 1 File Structure

You should produce a working directory like the one bellow:



## 2 HELP

- The "icp" main directory contains all the necessary files in order to execute the icp algorithm from scratch.
- The "new\_data" directory is where the point-clouds are saved in xyz format.
- The "ICP.py" is a library file where the ICP algorithm is implemented (you won't run this file).
- The "deformation.py" file is where the point-cloud deformation happens (you will run this script in order to produce an alternated deformed dataset of the original)
- The "transformations.py" is a library file where we borrow the Euler function for matrix rotation - translation (you will use the Euler matrix function from this file – `transformations.euler_matrix(alpha,beta,gamma)`).
- The "run.py" is the script that triggers the whole process.