Step 1: simulate data.

run **data-batch, data\_rotation and add\_noise** in order.

Step 2: feature extraction

run **feature-extraction**

Step 3: training

run **train\_s1**

after this, you get the first PointNet block without feature update.

Step 4: feature update

run **feature-update** and **train\_s2**

after this, you get second PoinNet block with feature update.

Step 5: visualization

run **show**

Some tips:

You can just predict with already trained AtomNet in *each checkpoint part*.

If you are interested in experimental data, you can try **ex-data**