

# Microstate Tools Tutorial

Learn about the tools MCCE has for analyzing Microstate distributions.

- [What is a microstate?](#)
- [Tautomeric Charge Microstates](#)

# What is a microstate?

Microstates are

# Tautomeric Charge Microstates

All MCCE tools relevant to microstate analysis will start with "ms", like 'ms\_top2pdbs" and "ms\_hbond\_percentages.py".

To use any microstate tools, MCCE needs to have the directory "ms\_out", produced by "step4.py --ms". Read the steps 1 - 4 tutorial for more information about those runs.

## sampled\_ms\_to\_pdbs.py

Makes a sample PDB file, generated from a random sample of conformer microstates whose size is user-defined.