1. Describe the data and analyses

2. Run AXIOME on the file

$ axiome exp.ax

3. Invoke make to run analyses

$ make

AXIOME Plugins (version 1.6)

- **PANDAseq**
  PAired-eND Assembly of Illumina sequences

- **Non-negative Matrix Factorization**
  Alternative higher-dimesional decomposition

- **SSUnique**
  Unique lineage finder

- **MRPP Analysis**
  Multiple Response Purmutation Procedure

- **Indicator Species**
  Dufrêne-Legendre Indicator Species

- **User-Defined Analyses**

Clustering
- uclust or CD-HIT sequence clustering

OTU Table

Tree Building
- Building phylogenetic trees

α-diversity
- Chao1, phylogenetic diversity/richness

β-diversity
- Rarified/summarized by taxonomic level

Taxonomic Composition

Rank-Abundance