Alpha Diversity Method 3

· Chao1

$$chao1 = S_{obs} + \frac{F_1^2}{2F_2}$$

- Sobs = total observed species
- F_1 = number of singletons (species observed only once in a sample)
- F_2 = number of doubletons

Questions that can be addressed with alpha diversity:

How many taxa are in a sample? What is the richness of my sample?

Have I sequenced to a depth (coverage) that describes the diversity of my sample? (not in this lab...)

Does condition X have higher phylogenetic diversity than condition Y?