

# Alpha Diversity Method 4

- **Faith's Phylogenetic Diversity** (PD\_whole\_tree)
- Sum up the length of all branches in phylogenetic tree
- If a species is close to another species...
- If a species is far from any species in the tree...

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?

Does condition X have higher phylogenetic diversity than condition Y?