

Alpha Diversity Method 1

- **Count OTUs**
- Simple, but...any issues?

Alpha Diversity Method 2

- **Shannon's Diversity**

- s = number of species $H = - \sum_{i=1}^s (p_i \log_2 p_i)$
- p_i = proportion of counts attributable to species i
- equal representation leads to high diversity index
(play with it in R)