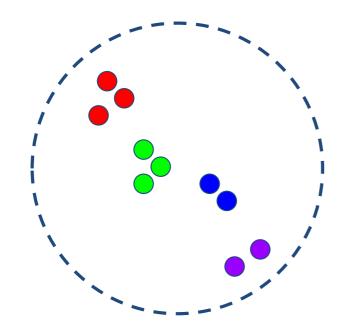
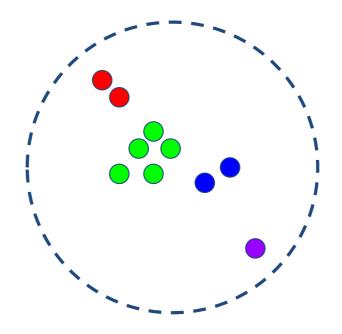
Introduction to ecological diversity measurements and ordination

Daniel Lundin



What is diversity?



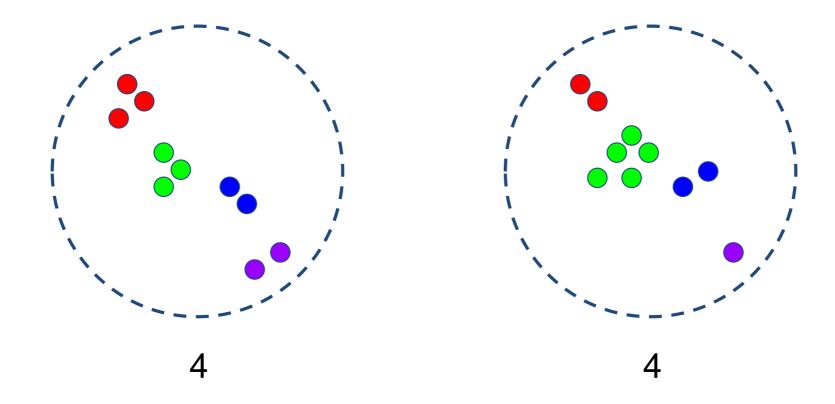




Alpha diversity

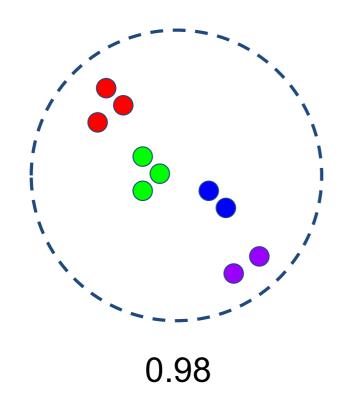
- Species count "richness"
- Abundance distribution "evenness"
- Joint measurements "entropy"

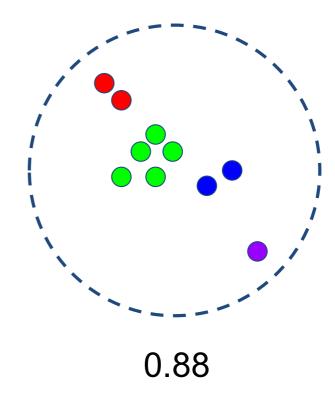
Richness: species count





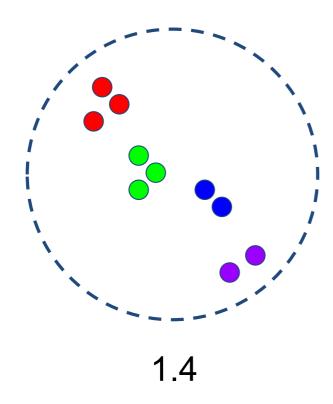
Pielous's evenness

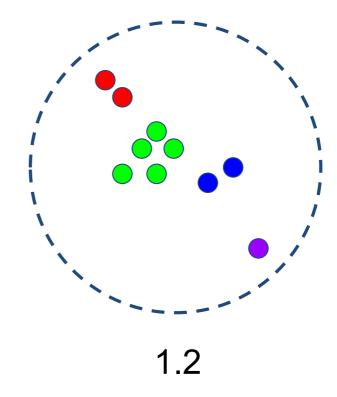




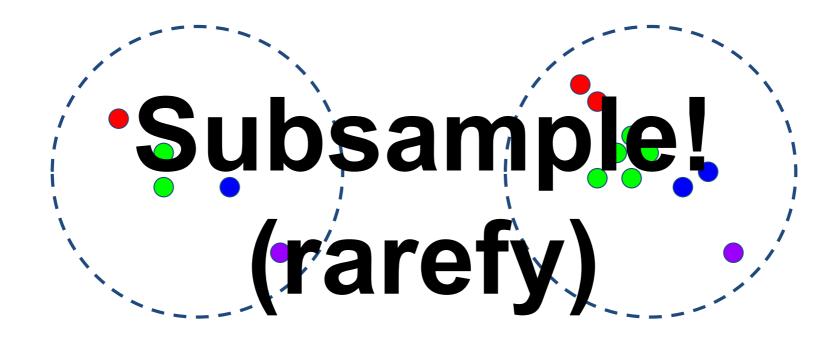


Shannon





What happens if the total is different?

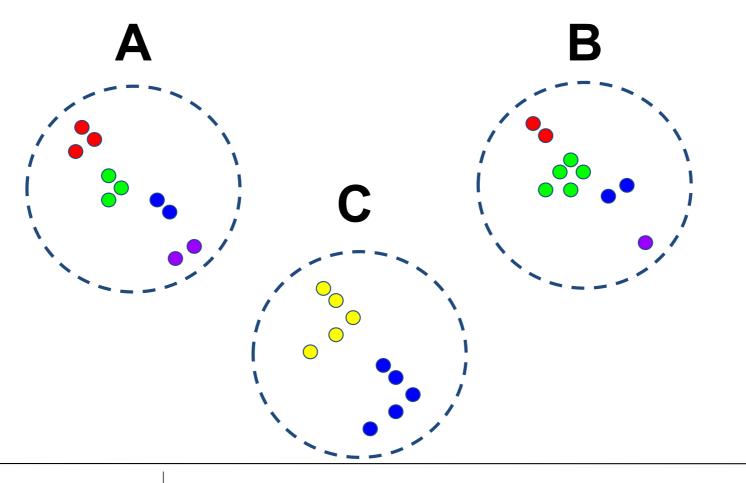


1.3

Microbial model Systems



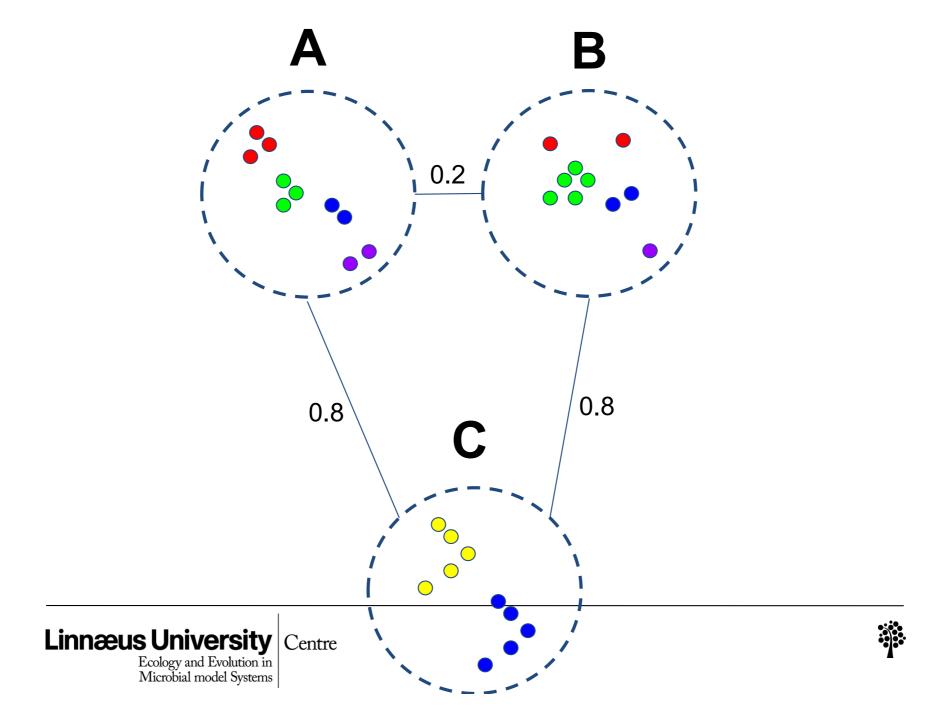
Beta diversity – how similar are A, B and C?



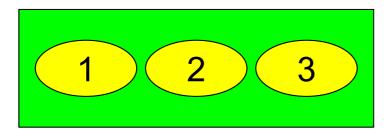




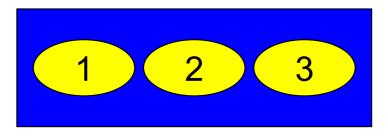
Bray-Curtis



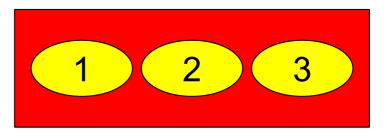
Ordination



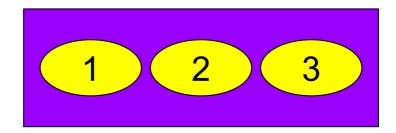
Control



Treatment 2

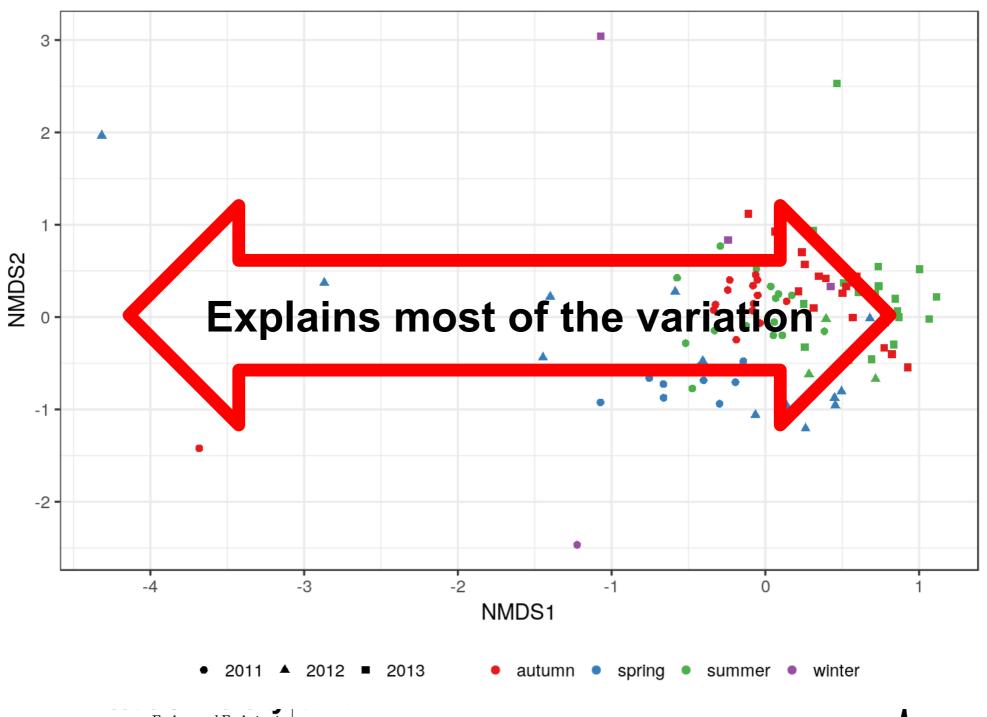


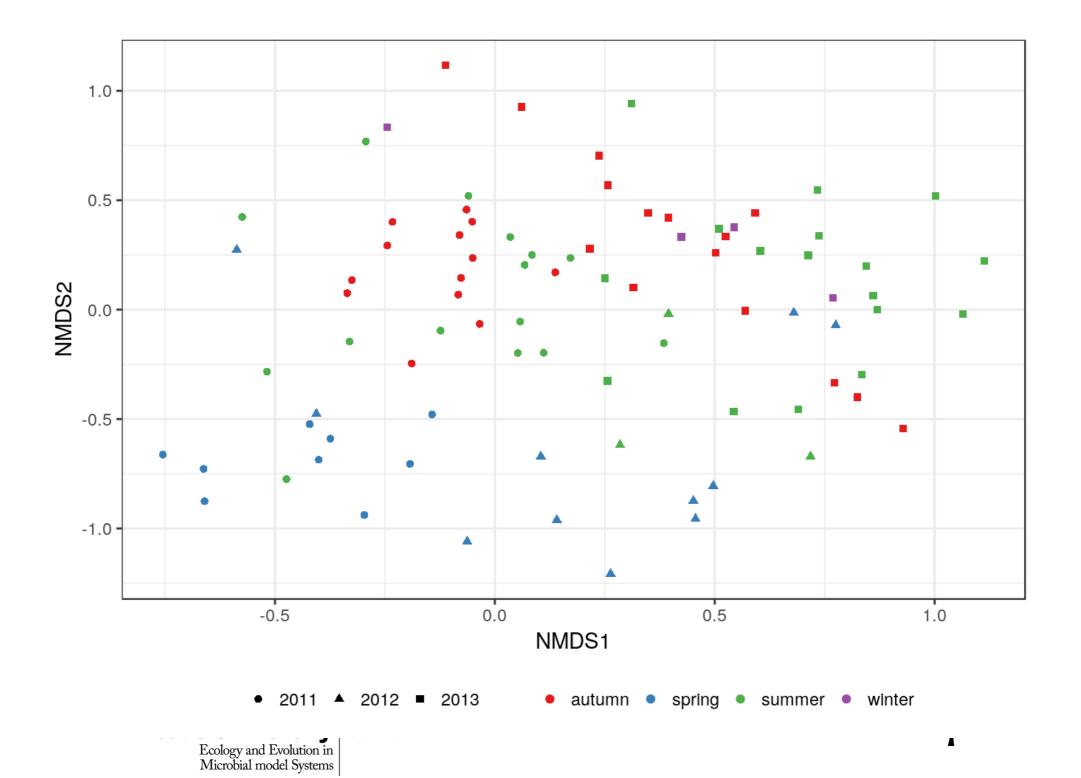
Treatment 1



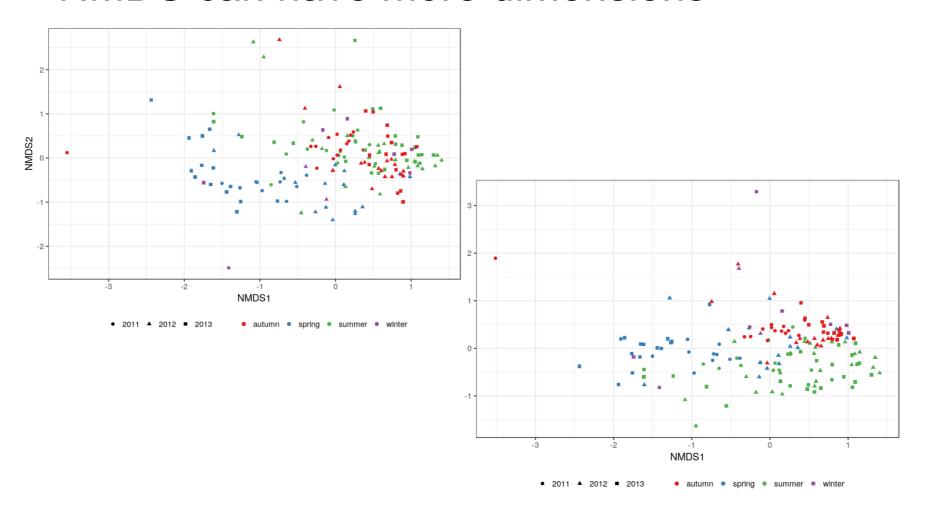
Treatment 1+2







NMDS can have more dimensions







https://jonlefcheck.net/2012/10/24/nmds-tutorial-in-r/

