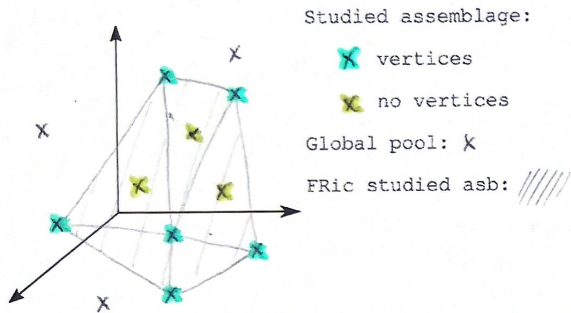


Functional Richness = FRic

Def: the proportion of functional space filled by species of the studied assemblage (volume of the convex hull shaping species)

Note: number of species > (number of functional axes + 1)

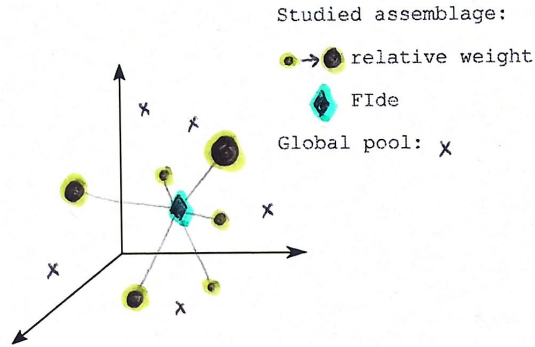
Scaling: / convex hull of the global pool



Functional Dispersion = FDis

Def: the biomass-weighted deviation to the center of gravity of species of the studied asb (defined as Fide)

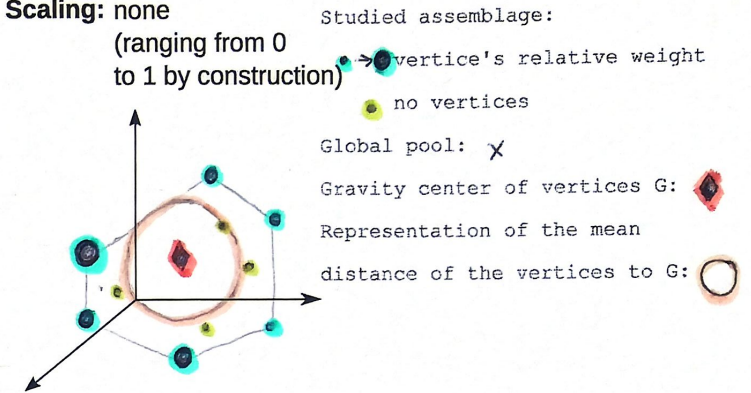
Scaling: / maximal distance between species in the global pool



Functional Divergence = FDiv

Def: the biomass weighted deviation to the center of gravity of the species with the most extreme functional traits (= vertices) ~ distribution of biomass within the convex hull

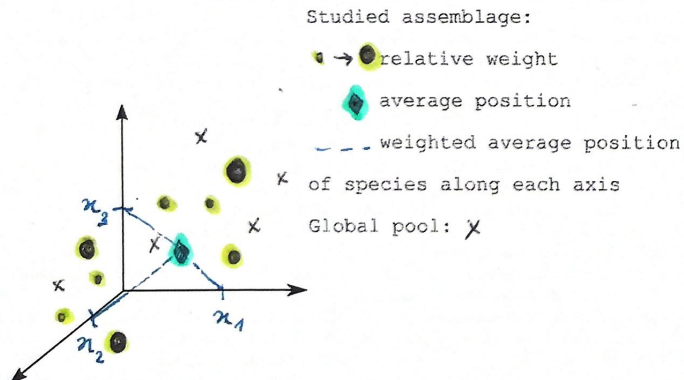
Scaling: none (ranging from 0 to 1 by construction)



Functional Identity = Fide also named CWM

Def: the biomass-weighted average position of species of the studied asb along each axis

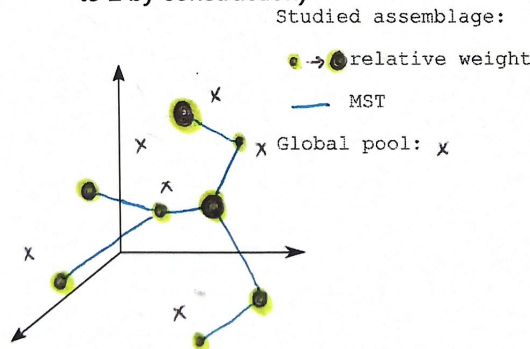
Scaling: none



Functional Evenness = FEve

Def: the regularity of biomass distribution along the Minimum Spanning Tree (MST) linking all species present in the studied asb

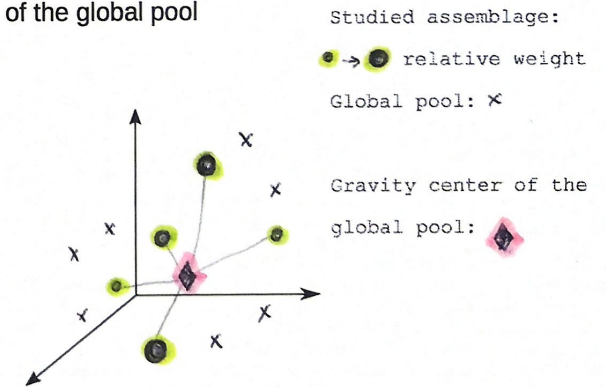
Scaling: none (ranging from 0 to 1 by construction)



Functional Specialisation = FSpe

Def: the biomass-weighted deviation to the center of gravity of the global pool (ie center of the functional space)

Scaling: / maximal distance to the center of gravity of the global pool



Abbreviations: asb = assemblage, biomass-weighted is a particular case of weighted, pool = all the species of the studied case - Indices are plotted for only one assemblage

Functional Originality = FOR_i

Def: the biomass weighted mean distance to the nearest species ($n_n =$ nearest neighbours) from the global species pool

Scaling: / maximal distance between species of the global pool

