

Generating communities of desired β

Cape vs SWA publication

Ruan van Mazijk

2018-11-04

Generate pairs of communities that result in $J(A, B) \in [0, 1]$

```
data <- expand.grid(  
  jacc_dist_ab = seq(0, 1, by = 0.1),  
  richness_a = 1:11  
)  
data$richness_b <- data$richness_a  
data$richness_ab <- NA  
for (i in 1:nrow(data)) {  
  data$richness_ab[[i]] <-  
    data$richness_a[[i]] + (data$jacc_dist_ab[[i]] * data$richness_b[[i]])  
}
```

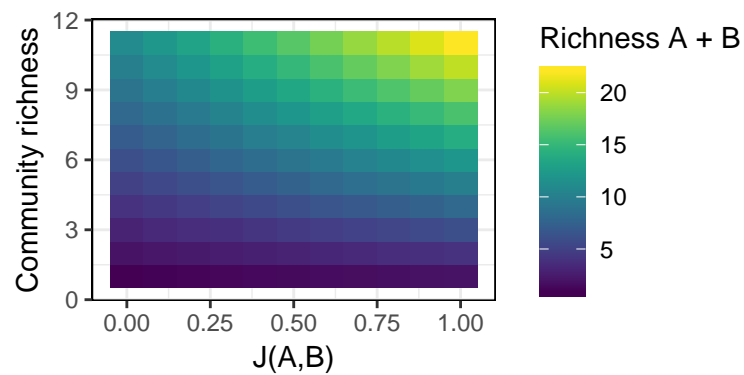


Figure 1: Plot of the combined richness of communities a and b as a function of $J(A, B)$ and each community's richness (where richness $a = \text{richness } b$)