**Practice 2**

**Community metrics with vegan (R)**

<https://peat-clark.github.io/BIO381/veganTutorial.html>

First, follow the tutorial above to understand how it works. Then, follow the application to our dataset (file Diversity\_test\_data.xlsx).

File: Diversity\_test\_data.xlsx

Script with explanations for the practice:

CommunityMetrics.R

**Applying what you learned:**

1. Choose potential explanatory variables from the datasheet “Gemeinschaftsökologie\_Reptilien.xls” test their explanatory power with PERMANOVA
2. Once you understood everything, you can try to apply it to your own dataset (personal or extracted from the datasheets of the course)

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| For beginners:  Checklist to prepare your own datasheet:   * Make sure you have no special characters or spaces * Numbers are recognized as quantitative data, so use letters in your qualitative variables * For these analyses, species should be in the columns and sites in the lines * For NMDS, place the groups of interest together because they will be specified by numbers of lines in the sequence (see the variable “block” in the test data file) |