

# Species dissimilarities

## Assignment 2

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Submit a R script wherein you provide answers to Questions 1–9 by no later than 8:00 tomorrow. Label the script as follows: `BCB743_<Name>_<Surname>_Assignment_2.R`, e.g. `BCB743_AJ_Smit_Assignment_2.R`.

Refer to the [Species Dissimilarity lecture material](#) for the question context.

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### 0.1 Assignment 2 Questions

**Question 1:** Look at the dataset and explain its structure in words.

**Question 2:** Would we use Bray-Curtis or Jaccard dissimilarities?

**Question 3:** Apply the calculation.

**Question 4:** Explain the meaning of the results in broad terms.

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**Question 5:** Examine it more closely: what general pattern comes out?

**Question 6:** Plot this pattern (hint, it is best seen in the 1st column of the dissimilarity matrix).

**Question 7:** What explanation can you offer for this pattern?

**Question 8:** Using the `decostand()` function, create presence/absence data, and apply the appropriate `vegdist()` function to obtain a suitable dissimilarity matrix.

**Question 9:** Create another plot and explain the pattern.