

Week 6: evolutionary trees Assignment

Part 1. Write a program that reads in a file of fasta sequences, calculates a Jukes-Cantor distance matrix (same as week 5 assignment) and then builds a UPGMA tree.

The program should output the tree in Newick format.

Part 2 Load the Newick string in to a tree plotter and save the image as a file.
(e.g. Phyfi <https://services.birc.au.dk/phyfi/>)

Turn in your program, the tree with the newick file, and the image of the tree plot.

BONUS: generate a Newick string with branch lengths