Computational Linguistics

CSCE 915 Homework 1 Spring 2024

- 1. (40 points) Implement the UPGMA algorithm. Apply it to the Hw1_words data file to build a hypothetical language family tree.
- 2. (40 points) Implement the CMM algorithm. Apply it to the Hw1_words data file to build a hypothetical language family tree.
- 3. (10 points) Which language family tree gives a more <u>detailed</u> explanation of the development of the language family tree. Why that explanation may be important for a historical linguist?
- 4. (10 points) Which of the two language family trees is more <u>accurate</u>, that is, more likely to reflect the actual history of the development of the languages within the given language family? Why?