

Programming Assignment 1: Learning and Applying UNIX

This exercise is aimed to help make you think about how to gather information from data files. It will solidify the knowledge gained in class so you will feel more comfortable using UNIX with your own research. You will have time to work on it in class.

Directions

You will use the commands you've become familiar with from the UNIX handout and cheat sheet (sort, grep, |, >, >>, etc) to answer the following questions using the data sets BrightStars.dat and NearStars.dat.

As always, feel free to work with other people, but make sure to turn in your own assignment. *Do not just turn in one group assignment!*

Questions:

1. What is the brightest star?
2. What is the most distant star (smallest Parallax) with $V < 3.0$?
3. What is the bluest star (smallest B-V) with $V < 3.0$?
4. What is the reddest star with $V < 3.0$?
5. Use the star charts to find the names of the stars in questions 1-4

Submit your solutions and an explanation of your methods in a short paragraph (around 300 words)

Grading Criteria

- 1-4: one point each, right/wrong
- 5: four points, one for each correct star name
- Paragraph summary: 2 points

Due Date: Monday October 6 by 5 pm