

INTRODUCTION TO PROGRAMMING FOR ASTRONOMICAL APPLICATIONS

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Office Hours: Email me to set up a time.

Website: UW Canvas

Class Meetings: Mon and Wed from 1:30 - 2:50 in PAB B360.

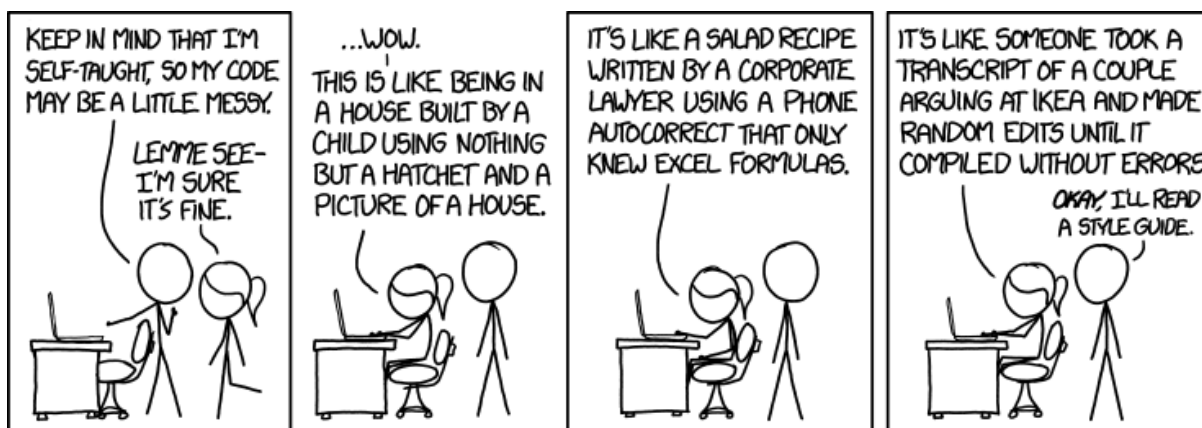
Background: This course offers an introduction to exploring, manipulating, and displaying astronomical data using modern programming languages. Python will be our primary language, but other topics such as the AWK, the \LaTeX scientific publishing package, and regular expressions will be covered.

Recommended for astronomy majors planning to take 400-level astronomy courses, to peruse individual research projects, or to apply for Research Experience for Undergraduate appointments (REUs). The examples used in class and assigned as homework will be specific to the field of astronomy.

Assignments: There will be assignments handed out in class. Some weeks will have two assignments, some only one. The due dates will depend on the assignment. No late work will be accepted.

Grading: Grades for the class will be based on the homework assignments. Here are no exams in the course, final or otherwise, but there is a midterm and final in-class project.

Course texts: All the course materials will either be online or handed-out in class. There is no textbook for the class.



Some useful commands

```
git clone https://github.com/UWashington-Astro300/Astro300-A17.git

cd                               Change Directory (go to HOME directory)
cd Astro300-A17                 go to Astro 300 directory from HOME directory

cp file1 file2                  Copy - make a copy of file1 called file2
mv file1 file2                  Rename (move) - file1 to file2
rm file1                        Delete (remove) file1

ls                               List files in a directory

cat file1                       Dump file to screen (stream file1)

Ctrl-c                          Terminate program. Will cause most programs to
                                quit. Useful if something runs away on you

gedit &                         Start the text editor in the background
```

Connecting to an **astrolab** machine from another location. Open a terminal and:
First you have to connect to the **gateway** computer:

```
% ssh -l username gateway.phys.washington.edu
```

Then connect to one of the astrolabs:

```
% ssh -l username astrolabXX.astro.washington.edu
```

The -l is a lower case L.

Replace the XX with a number from 01 to 24.
