

# ASTR 288P

## Lecture 2

- Remote UNIX:
  - Single terminal: **ssh** or **putty**
    - Use 'screen' or 'tmux' for session management (optional)
  - GUI session (recommended): VNC (**vncviewer**)
- UNIX:
  - Shell (**bash**, tcsh, xonsh) and **shell scripting**
  - File System (/, /usr/bin, /etc, \$HOME)
  - Editors (**emacs**, vi, gedit, pico) [\[42 listed on wikipedia\]](#)
  - Tools
    - Native Unix tools: **ls**, **cp**, **mkdir**, **cd**, **mv**, **awk**, **grep** ...

Follow **lectures/Lecture2.txt** from <https://github.com/teuben/astr288p>

Or direct URL:

<https://github.com/teuben/astr288p/blob/master/lectures/Lecture2.txt>

Cut and Paste in your terminal and follow guidelines!

# What have we learned today?

- Basics of using the Unix shell (bash)
- Some basic Unix commands
- How and where to find information about these commands
- How to navigate through the file system (directories)
- Combine Unix commands using redirection and piping

# What have we not learned today?

- Recover from removed files or directories
  - At astro.umd.edu: /backup/home/\$USER/
  - /daily/home/\$USER