

Advanced UNIX

Scripting, data exploration, text parsing

What you should know

- Basic shell navigation
 - cd, ls, pwd
- Making file and directories
 - touch, mkdir
- Moving files
 - mv, cp
- Basic file handling
 - head, tail, cat, less
- Some experience in a script editor

Advanced Unix Materials

Log onto the server using isu username and password and fetch materials from github:

```
$ ssh isuusername@bcbio.gdc.b.iastate.edu  
$ git clone https://github.com/j23414/adv-unix-workshop.git
```

Slides: <https://github.com/j23414/adv-unix-workshop>

Workshop Outline

1. Bash shell scripting
2. Exploring data with **grep**, **sort**, **uniq** and **wc**
3. **sed** - search/replace and line deletion
4. **awk** - advanced data processing language

Extra: All Unix Commands

\$ echo \$PATH	# prints path to installed Unix commands
\$ cd <path there>	# go to folder containing Unix commands
\$ ls *	# list available commands
\$ man <command>	# show manual page for command
\$ which <command>	# tells which executable is used
\$ who	# who is also logged in?
\$ top	# what commands are currently running?