
Session #1

Introductory Commands

<code>ls</code>	Lists contents of directory
<code>pwd</code>	Print working directory
<code>cd</code>	Changes directory
<code>mkdir</code>	Creates folder
<code>rmdir</code>	Removes folders

Introductory Commands

cp	Copies file or folder
mv	Moves file or folder
rm	Removes file or folder
*	Wild-Card

Simple Shortcuts

- Up and down arrows
- Tab auto-complete
- Control + a and Control + e
- [Become a command line ninja!](#)

Exercise Set #1

Break

Exercise Set #1 Solutions

Commands to View a File

cat	Print entire file
head	Print first 10 lines
tail	Print last 10 lines
less	View file

Manipulating Files

<code>wc</code>	Count words/line/characters in file
<code>paste</code>	Paste files side by side
<code>></code>	Direct output to overwrite file
<code>>></code>	Direct output to add to file

Exercise Set #2

Exercise Set #2 Solutions

Take Home Assignment #1

You are performing a knock-out experiment in *Drosophila* for gene J, which is predicted to affect body mass over time. You have measured the body mass of flies over a period of 15 days taking measurements at six time points (0, 3, 6, 9, 12, 15 days).

However, your data measurements are in different files and your PI wants all the data in one. You have 7 files in 7 different folders and must complete the following tasks and answer the following questions:

Take Home Assignment #1

1. Create a new file that has columns in the following order and call it `Fly_Weight_Results.txt`:

Fly_ID	Day_0	Day_3	Day_6	Day_9	Day_12	Day_15
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2. How many flies were used in the experiment?

3. What are the first 20 lines of the file?

4. What are the last 20 lines of the file?

5. Create a smaller file of the bottom 1000 entries and name this `Fly_Weight_Results_Subset.txt`. Now add to the file the top 500 entries from the `Fly_Weight_Results.txt` file.

6. What are the top 15 lines of this new file? What are the bottom 15 lines of this new file?

Take Home Assignment #1

- Fill out Google Form with answers
- Work with others. Collaborate!
- Email us with any questions
- Finish by next workshop session