Sed Cheat Sheet

Sed is a stream editor. If that sounds strange, picture a stream of characters and file lines flowing through a pipe, and we can send a sed command to alter, delete, insert, match a regex pattern, and several other options.

Sed has several commands, but by far the most popular one is the substitute command: *s*. The substitute command changes occurrences of a regular expression to a new value. One simple example was given in one of our lectures, where we changed *all* the occurrences of "UNIX" by "Linux" in our input file.

```
sed "s/UNIX/Linux/g" file
```

Below you will find a quick table of popular options used with sed.

Usage: sed [command-line-options] ['sed-command'] file

Basic Examples:

sed -n 12,18p file -n suppresses printing, except lines 12 to 18 (p forces print) sed 12-18d Show all lines, except lines 12 to 18 (d deletes the match)

sed G file Double-space a file sed 'G;G' file Triple-space a file

sed -f script.sed file Loads the commands inside script.sed and executes them

sed '\$d' file.txt Delete the last line

sed 's/foo/bar/' file

Replace foo with bar only for the first instance in a line
sed 's/foo/bar/4' file

Replace foo with bar only for the 4th instance in a line

sed 's/foo/bar/g' file Replace foo with bar for all instances in a line

sed '/baz/s/foo/bar/g' file Only if line contains baz, then substitute foo with bar

Command Line Options:

-n No-printing (unless a specific print-p instruction is found)

-f scriptname If you have several sed commands you can put them in a script file

-h Prints a summary of sed commands

-e Combine multiple sed commands (-e [first] -e [second] -e [third])

Pattern Flags:

/g Global replacement (replaces all occurrences)

/1, /2, /3, etc. Specifies which occurrence

/p By default sed prints every line. /p forces print even when using -n

/w filename Write the modified data to a file
/I Ignore case (uppercase "i")
FILENAME References the current input file