

Bash Cheat Sheet

Bash utilities

- **echo** - prints out variable or string
 - `echo hello` - prints hello
 - `echo $a` - prints contents of the 'a' variable
- **cd** - changes current directories
 - `cd /Users` - sets current directory to the /Users folder
- **ls** - lists files in current directory
 - `ls -1` - lists 1 column of files
 - `ls -2` - lists 2 columns of files
- **cat** - concatenates and prints contents of files
 - `cat someFile` - prints contents of the 'someFile' file
 - `cat file1 file2 file3` - concatenates the contents of 'file1', 'file2', and 'file3'
- **mv** - move or rename file
 - `mv someFile otherFile` - renames the 'someFile' file to 'otherFile'
 - `mv someFile dir/someFile` - moves 'someFile' into the 'dir' folder
- **rm** - delete file
 - `rm someFile` - deletes 'file'
- **less** - pagifies input
 - `cat someFile | less` - pagifies contents of 'someFile'
- **file** - gives information on contents of files
 - `file someFile` - analyzes content of 'someFile'
- **stat** - gives information on metadata of files
 - `stat someFile` - prints metadata of 'someFile'
 - `stat -f%c someFile` - prints time of creation since epoch of 'someFile'
- **man** - built in manual
 - `man file` - opens manual entry for the 'file' utility
- **date** - gets date and time
 - `date` - outputs current date and time
- **find** - finds files that meet certain criteria
 - `find -name something*` - finds all files and directories in the current directory and subdirectories beginning with "something"
 - `find -type f -name something*` - finds all files in the current directory and subdirectories beginning with "something"
 - `find -maxdepth 4 -mindepth 2 -name something*` - finds all files in subdirectories 2 to 4 layers below the current subdirectory beginning with "something"

Control flow

```
ifs
if [[ $a == 1 ]]
then
    echo hi there
else
    echo good bye
fi
```

```
for loops
for f in *.*
do
    echo $f
done
```