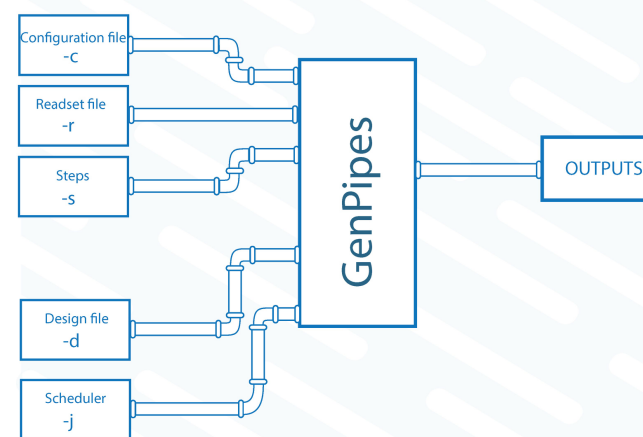


Unix/Linux Command Line Reference

File Commands	
ls	directory listing
ls -alh	formatted listing including hidden files
cd dir	change directory to <i>dir</i>
cd	change to <i>home</i>
pwd	show path to current directory
mkdir dir	create a directory <i>dir</i>
rm file	delete <i>file</i>
rm -r dir	delete directory <i>dir</i>
rm -f file	force remove <i>file</i> (use with caution)
rm -rf dir	force remove directory <i>dir</i> (use with caution)
cp file1 file2	copy <i>file1</i> to <i>file2</i>
cp -r dir1 dir2	copy <i>dir1</i> to <i>dir2</i> ; create <i>dir2</i> if it doesn't exist
mv file1 file2	rename (move) <i>file1</i> to <i>file2</i>
mv file1 dir2	if <i>dir2</i> is an existing directory, moves <i>file1</i> into <i>dir2</i>
ln -s file link	create symbolic link <i>link</i> to <i>file</i>
touch file	create or update <i>file</i> date
less file	view the contents of <i>file</i> (press Q to quit)
cat file	output the contents of <i>file</i>
head file	output the first 10 lines of <i>file</i>
tail file	output the last 10 lines of <i>file</i>
nano file	edit <i>file</i> with the <i>nano</i> text editor (press ctrl+X to quit)
vim file	edit <i>file</i> with the <i>vim</i> text editor (advanced users)
.	current directory
..	parent directory
~	home directory
Shell Redirection	
cmd1 cmd2	pass output of <i>cmd1</i> as input to <i>cmd2</i>
cmd > file	write (overwrite) standard out to <i>file</i>
cmd >> file	append standard out to <i>file</i>
cmd &> file	write (overwrite) standard error to <i>file</i>
SSH and Data Transfer	
ssh user@host	connect to host as user
scp file usr@host:~/dest	copy <i>file</i> to directory <i>~/dest</i> on <i>host</i>
rsync -avPLu file dest	sync <i>file</i> to <i>dest</i> (use format above)
wget URL dest	download files from <i>URL</i> to <i>dest</i>

HPC and Scheduler Commands		
PBS	Slurm	scheduler types
qsub job	sbatch job	submit <i>job</i> to the cluster
qstat -u \$USER	squeue -u \$USER	list submitted jobs
qdel ID	scancel ID	cancel job number <i>ID</i>
Shortcuts and Useful Commands		
man prg	view the manual of <i>prg</i>	
Ctrl+C	halt the current command	
Ctrl+W	erase one word in the current line	
Ctrl+U	erase the whole line	
Ctrl+R	type to bring up a recent command	
history	view your command history	
echo \$?	show exit status of last command (0 = no errors)	
!!	repeat last command	
!\$	repeat last argument	
\	continue command in next line	
exit	log out of current session	
GenPipes Command		
<pre>pipeline.py \ -c pipeline.base.ini server.ini genome.ini \ -r readsets.tsv -d design.tsv -j scheduler \ -o outputdir -s steps > run-script.sh</pre>		
Then do:	bash run-script.sh	to submit pipeline jobs



How to use this reference: Type **bold** commands as they are. Replace *italics* with appropriate file/program/etc. For more options check the manuals.