

Introduction of Bioinformatics: Command line examples

Unix command line interface

Windows user:	macOS/Linux user:
Scan the QR code below to download Git Bash	Open the built-in Terminal app
• Download the "Windows Portable" one for installation	in your laptop

Navigating

Command	Explanation	Example usage
pwd	Print working directory	pwd
cd	Change the working directory to the target directory	cd /path/of/directory
cd ~	Chagne the working directory to user's home directory	cd~
cd	Chagne to parent directory of the current directory	cd
ls	List the contents of a directory	ls
1s -a	List all contents in a directory	ls -a
ls -1	List the contents in a directory in long format	1s -1

Changing the file system

Command	Explanation	Example usage
mkdir	Create a directory with a specific name	mkdir name_of_folder
rmdir	Remove a directory with a specific name	rmdir name_of_folder
ср	Copy a file (to a directory or to another file)	cp output_1.txt /path/of/directory
mv	Move a file to the target directory	mv output_1.txt /path/of/directory
nano	Text editor to create text file	nano workshop_script.txt
rm	Remove a target file (once delete, no restore)	rm workshop_script.txt



Viewing

Command	Explanation	Example usage
less	View the contents of a file on one page at a time	less workshop, script tyt
1055	Press "Q" to exit	less workshop_script.txt
cat	Concatenate and display the content of a file	cat output_1.txt
head	Print the first 10 lines of each file	head workshop_script.txt
tail	Print the last 10 lines of each file	tail output_1.txt

Others

Command	Explanation	Example usage
cp file_1 file_2	Copy file_1 to file_2	cp output_1.txt output_2.txt
mv file_1 file_2	Rename file_1 to file_2	mv output_1.txt output_2.txt
sort	Sort or merge records (lines) of text files	sort output_1.txt
uniq	Filter out repeated lines in a file	uniq output_1.txt
	Output redirection symbol, save the output of a	uniq output_1.txt > output_2.txt
>	command into a file.	

Manual and help

Command	Explanation	Example usage
<pre><command/>help</pre>	Display help information for the usage of a command	lesshelp
man <command/>	Open a manual page for a command	man less



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Others

Command	Explanation	Example usage
cp file_1 file_2	Copy file_1 to file_2	cp output_1.txt output_2.txt
mv file_1 file_2	Rename file_1 to file_2	mv output_1.txt output_2.txt
	Sort or merge records (lines) of text files with	sort output_1.txt
sort -n	numeric data	
	Sort or merge records and print the unique	uniq output_1.txt
sort -u	keys in a file	
	Output redirection symbol, save the output	uniq output_1.txt > output_2.txt
>	of a command into a file.	

Manual and help

Command	Explanation	Example usage
<pre><command/>help</pre>	Display help information for the usage of a command	lesshelp
man <command/>	Open a manual page for a command	man less