Orientation — Shell & Getting Help (Core)

Linux Commands Course · Section @

Terminal vs Shell

A terminal is the window where you type. A shell is the program that reads what you type and runs it (e.g., bash, zsh, fish).

You talk to the OS through the shell. This course uses a Bourne-style shell (bash/zsh).

Which shell am I using?

Prin	t the	value	οf	the	SHFLL	environment	variable:

echo \$SHELL

Typical outputs: /bin/bash, /bin/zsh.

bash and zsh — at a glance

- bash: ubiquitous default on many distros; great for scripts.
 zsh: interactive niceties (completion, prompts) while staying Bourne-compatible for most everyday commands.

You can learn one and be productive in both.

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Prompt anatomy

A common prompt looks like this:

- user your account namehost machine name

- ~ your home directory
 \$ normal user (# means root)

Command anatomy

Pattern you'll see everywhere:		
	command [options] [arguments]	
Example:		
	echo Hello	
echo is the command; Hello is an argument printed to the screen		

echo - printing text

	echo Hello	
Preserve spaces by quoting:		
	echo "Multiple words stay together"	
Show special characters literally by single-quoting:		
	echo 'Use \$ and * literally'	

type vs which - what will run?

Discover how the shell resolves a name.
type (shell builtin) tells if something is a builtin, alias, function, or an external program:
type echo
which searches your PATH and shows the path to an external program:
which echo
If type says "builtin", which may print nothing for that name.

Getting help — quick options

Many programs support a short help message:		
	echohelp	
Bash builtins have builtin help:		
	help echo	
Use these when you just need a brief synopsis and flags.		

Manual pages (man)

Read full documentation for a command:

man echo

Navigation keys inside man:

- Space / Page Down next page
 b / Page Up previous page
 /pattern search forward
- n / N next / previous match
- q quit

man sections (concept)

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Manuals are grouped into sections (1: user cmds, 5: file formats, 8: admin, etc.).

Open a specific section if names clash:

man 1 printf
man 3 printf

(Only use if you encounter multiple entries.)
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whatis and apropos

Show a one-line description for a command name:		
	whatis echo	
Search across man page descriptions by keyword:		
	apropos print	
Use apropos when you know the task but not the command name.		

info pages

Some tools use the GNU Info system for their primary docs:

info coreutils

Navigation: Space → next, Backspace → previous, q → quit.

Session hygiene — history

List your red	ent commands	with line	e numbers:
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history

Press † or ı to scroll through previous commands at the prompt. You can re-edit and re-run them quickly.

Session hygiene - clear & reset

Clear the visible screen contents:		
	clear	
If your terminal display gets garbled (binary noise, weird char	acters), re-initialize it:	
	reset	
reset is safe; it just redraws and resets modes.		

Exit the shell

End the current shell session:	
	exit

Keyboard shortcut: Ctrl+D (sends End-Of-File to the shell).

Keyboard shortcuts (must-know)

Shortcut	What it does
Ctrl+C Ctrl+D Ctrl+L ↑ / ↓ Tab	Stop current running command Exit shell or end input line Clear screen (like clear) Browse command history Auto-complete names

Summary

- Shell: the interpreter you talk to (bash, zsh)
 Identify commands with type / which
 Learn quickly via --help, help, man, whatis, apropos, info
 Keep sessions tidy with history, clear, reset
 Exit cleanly with exit or Ctrl+D