

Command/Concept	Usage/Syntax	Description	Example
echo	echo <some string>	Displays a line of text on the terminal.	echo hello
Environment variables	Built-in variables and ones you set start with a \$	Bits of information (preferences) stored in your shell. Can be used by you or by other programs/scripts.	# Your username echo \$USER # Program you are running # In this case your shell echo \$0
env	env	List all of the environment variables currently set in your shell. Note: This command is tcsh specific.	env
bash	bash	Starts the bash shell (by default we are running tcsh). Type exit to quit out of the bash shell.	# Start a bash shell bash # Show the shell running echo \$0 # Exit the shell exit
setenv	setenv <varname> <value>	Set an environment variable. Note: This command is tcsh specific.	# Set variable greeting setenv greeting hello # See value of greeting echo \$greeting
' (Single quotes)	'<some string>'	Surround a string with single quotes such that it is treating it as a single value, parameter, or argument. Needed to "escape" spaces in strings. Single quotes <u>do not</u> expand the content of variables inside them.	# Not using quotes in this # example returns an error setenv greeting 'hello class' # Variable <u>not</u> expanded # greeting = hello \$USER setenv greeting 'hello \$USER'

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" (Double quotes)	"<some string>"	Surround a string with double quotes such that it is treating it as a single value, parameter, or argument. Needed to "escape" spaces in strings. Double quotes <u>do</u> expand the content of variables inside them.	# Not using quotes in this # example returns an error setenv greeting "hello class" # Variable <u>is</u> expanded # greeting = # hello <your username> setenv greeting "hello \$USER"
\<space>	\<space>	Command line arguments are usually separated by spaces. Spaces can be "escaped" such that a string is treated as a single value, parameter, or argument (without quotes).	# Not using \<space> in this # example returns an error setenv greeting hello\ class
pwd	pwd	Print Working Directory. Also available as an environment variable Present Working Directory: \$PWD	# Command pwd # Environment variable echo \$PWD
cd	cd <directory name>	Change (working) directory	cd / cd /<dir1>/<dir2>
Options for going back to your home directory	cd <absolute path to your \$HOME dir> cd \$HOME cd cd ~	Four options to go back to your home directory no matter what your \$PWD is.	cd <absolute path to your \$HOME dir> cd \$HOME cd cd ~
ls	ls	List files and directories in your \$PWD. Running ls after each cd is a good way to familiarize yourself with the filesystem.	ls

<code>ls -a</code>	<code>ls -a</code>	List <u>all</u> files and directories in your \$PWD including "hidden dot files," they start with either . or ..	<code>ls -a</code>
<code>ls -l</code>	<code>ls -l</code>	List files and directories in your \$PWD using "long" format. Provides permission, size, and other properties of each file and directory.	<code>ls -l</code>
<code>ls -l -h</code>	<code>ls -l -h</code>	List files and directories in your \$PWD using "long" format. File sizes are listed as "human readable" (instead as just bytes), i.e., K ilobytes, M egabytes, G igabytes, and T erabytes.	<code>ls -l -h</code>
Consolidation of arguments	<code>ls -<multiple args></code>	Order does not matter. Not all commands support "merging" of multiple options.	<code>ls -l -h -a</code> <code>ls -lha</code> <code>ls -hal</code> <code>ls -lah</code>