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Northern Illinois University Academic Computing Services Workshop

UNIX Basics for the Mere-Mortal User

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Editing with the VI Text Editor

The contents of files can also be viewed and manipulated.

more dante Displays the first screen of a file

and waits for a command.

ENTER Scrolls the next line in the file

onto the bottom of the screen.

Space Displays the next screen of the file.

? Displays a list of the commands for *more*.

h (BSD/SysV)

q Terminates *more*.

more +4 dante Displays a file on screen

with line 4 at the top of the screen

with one line above it

and waits for further instructions.

Displays your location within the file.

q Terminates *more*.

more +/Four dante Displays a file on screen

with a line containing *Four* at the top of the screen

and waits for further instructions.

q Terminates *more*.

vi +/Seven dante Displays a file for full screen editing

with a line containing *Seven* at the middle of the screen.

:q Exits the editor without changing anything.

vi +7 dante Displays a file for full screen editing

with line 7 at the middle of the screen.

CTRL G Displays the file name

and the current line number.

:q Exits the editor without changing anything.

vi + dante Displays a file for full screen editing

with the last line of the file at the middle of the screen.

:q Exits the editor without changing anything.

vi Opens a screen that can be used to

create a new file.

The visible editor *vi* starts up in a mode in which everything typed is interpreted as an editing command.

CTRL G Displays the file name

and the current line number.

o Opens the editor in a mode in which

almost everything typed is inserted as text.

Line 1 Enter some text.

Line 2

ESCAPE Returns the editor to command mode.

:q Exits the editor

only when changes were not made.

:q! Exits the editor

discarding any changes that were made.

vi dante Displays a file for full screen editing

with the first line of the file at the top of the screen.

The visible editor *vi* reads a file into an internal buffer and changes the buffer (not the original file) on command. The original file is only replaced on command.

Vi has three modes:

the command mode, the insert mode, and the line mode.

:set showmode Displays a note

at the bottom right of the screen

whenever in an insert mode.

The *command mode* is the central mode that gives access to the other modes and allows movement through the displayed file. Commands in *vi* are case sensitive, so make sure the Caps Lock is off.

Escape Causes the system to beep

when you are in the command mode.

Since the system beeped, you are now in the command mode. If the system did not beep, you were not in the command mode when you pressed ESCAPE, but since you did press ESCAPE, you are now in command mode.

The next time you press Escape, the system will beep.

CTRL G Displays the file name

and current line number.

ENTER Moves the cursor to the start of the next line.

RIGHT Moves the cursor right to the next character.

Moves the cursor to the next blank line

(the end of the current paragraph).

Most vi commands take a preceding multiplier.

5RIGHT Moves the cursor five characters to the right.

5Enter Move the cursor to the start

of the fifth line below.

>> Indents the current line.

Unindents the current line.

5>> Indents the current and next four lines.

Joins the current and next line.

u Undoes the last change to the buffer.

~ Changes the capitalization

of the current character.

Repeats the last command.

Undoes changes to the current line.

Changing lines looses the changes made in

the previous "current" line.

W~ Capitalizes the next word.

W~ Capitalizes the next word.

mm Marks the character as position m

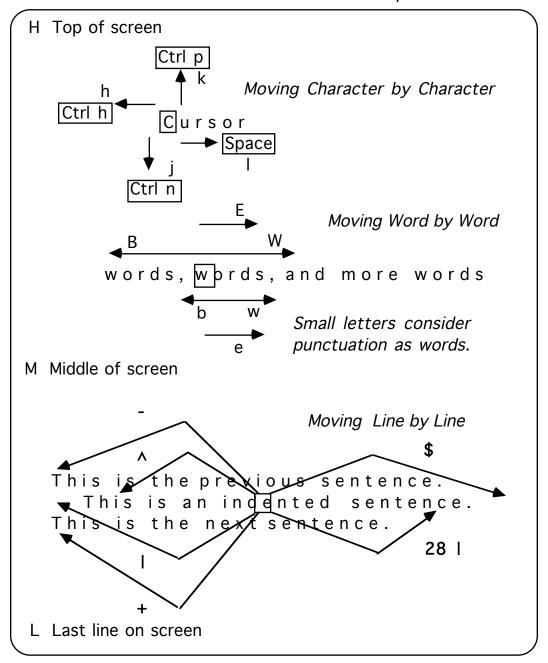
as one of 26 (a - z) points of reference.

Cursor Movement Commands

1G First line in file

'm Line marked with position m
`m Character marked as position m

" Returns the cursor to its previous line` Returns the cursor to its previous character



nG Line n in file

G Last line in file

Window Movement Commands

Line:
t

CTRL B Up/Back one screen z+ At top of screen

CTRL U Up/Back half screen

CTRL E Up/Back one line

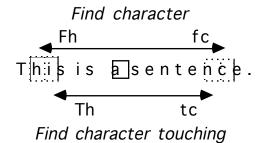
---- Current Line ---- z. At middle of screen

CTRL Y Forward/Down one line

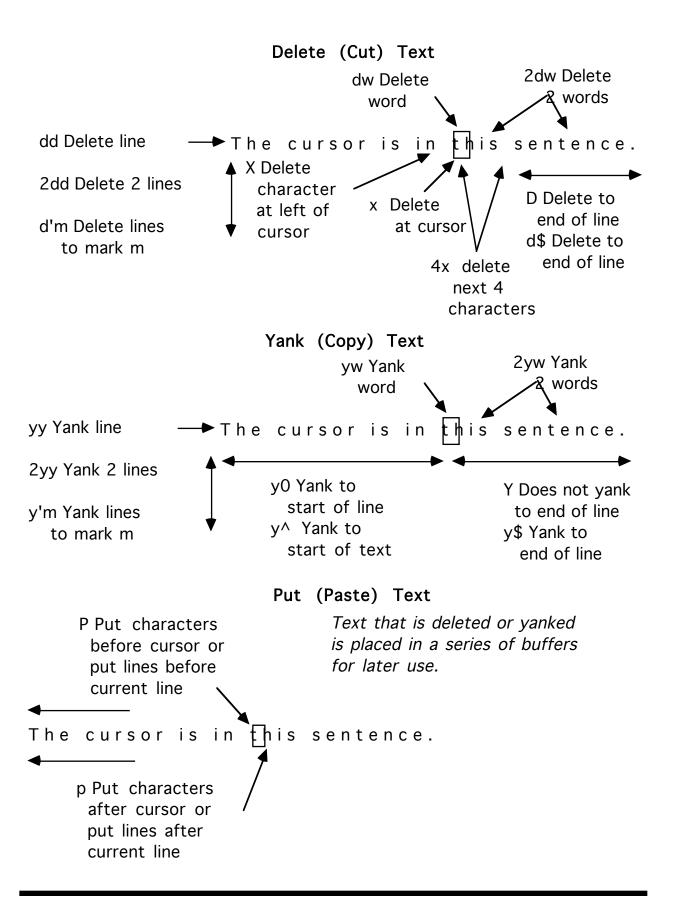
CTRL D Forward/Down half screen

CTRL F Forward/Down one screen z- At bottom of screen

Find in Current Line:



; Repeat Last Find



Deletes, yanks, and changes place text in an unnamed buffer which is used by the put commands.

There are also 26 named buffers (a through z) in which to hold text during *deletes* and *yanks*.

"adw Deletes word into buffer a.

"ap Puts the contents of buffer a after cursor.

"A5yy Yanks and appends the next five lines

to buffer a.

"ap Puts contents of buffer *a* after cursor.

The buffers hold either words or lines; one cannot be appended to the other.

The *insert mode* allows text entry and replacement.

Any of the insert or change commands can be used to start a new file.

ESCAPE Changes the system into command mode

when you are in the insert mode.

BACKSPACE Deletes the last character entered

while in insert mode.

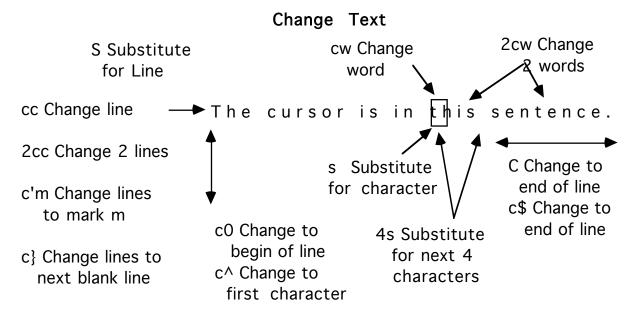
CTRL w Deletes the last word entered

(up to the last space) while in insert mode.

CTRL U Deletes the last line entered.

Insert Text O Open line a Add i Insert A Add before after before after sentence cursor cursor sentence **I** Insert The cursor is in this sentence before sentence R Replaces o Open line characters after r Replace one sentence character

Type text immediately after the command, and press Escape to return to Command mode.



Notice the \$, type text immediately after the command, and press Escape to return to Command Mode.

The text that was changed is saved in the delete buffer and can be placed elsewhere.

Line mode offers extensive search and replace capability and file manipulation. The symbols /, ?, :, !, and Q place the cursor at the bottom of the screen and place *vi* in line mode.

: Places the cursor at the bottom of the screen

and starts the line mode.

ESCAPE Returns the system to command mode

when you are in line mode

and aborts any unexecuted commands.

Vi returns to command mode automatically after the line mode commands are completed unless Q was used to place *vi* in line mode.

Q Places *vi* in line mode permanently.

vi Returns from permanent line mode.

/Level Searches for the first occurrence of *Level*

toward the end of the file.

/ Searches for the next occurrence

toward the end of the file.

? Searches for the next occurrence

toward the start of the file.

:s/is/IS/ Replaces the first occurrence of *is*

in the current line with IS.

://s Replaces the next occurrence.

:g/ is /s// IS /cg Searches for all occurrences of the word is

(surrounded by blanks), checks for confirmation (y),

and replaces them with the word IS

(surrounded by blanks).

:w Writes out the buffer on to the original file.

:1, w first_part Writes out the first part of the buffer

(up to and including the current line)

and creates a new file.

:,\$w >> first_part Appends the last part of the buffer

(starting with the current line) to a file.

:e first_part Begins editing another file.

Note the duplicate line.

:e# Returns to the original file.

:e! Starts editing an original version of the file.

:f new_dante Changes the name of the output file.

cd mydir Changes the current directory

in which files are accessed.

:r myfile5 Reads in the file myfile5

after the current line.

cd .. Changes the current directory

in which files are accessed.

:r!date Reads the output of the command date

into the buffer at the cursor.

:!ls Displays the files in the current directory.

o Opens a new line to insert text.

532+694 Enters a new line of text.

ESCAPE Returns to command mode.

!!bc Uses the current line as input to bc,

and replaces the current line

with the output of the command bc.

!}sort Sorts the text to next blank line

and replaces it with the sorted text.

:sh Starts a new shell without quitting *vi*.

exit Returns to the edited file.

A series of commands can yanked or deleted into a buffer and then simply executed over and over again to avoid retyping.

o Opens a new line to place text.

W~Escape Enters as text the command to capitalize

the next word and returns to command mode.

lb Moves back to the beginning of the command.

"ad\$ Deletes the command text into buffer a.

The end of line is not included.

@a Executes contents of buffer a (as a macro).

@@ Executes last macro.

Keys can also be redefined to execute other commands. The use of function keys is great for saving long substitutions across files. These same commands can be placed in your *.exrc* file and automatically executed when *vi* or *ex* start up.

:map Y y\$ Identify the key Y as the command y\$,

that is, redefine Y

as yank to the end of the line

so that it is similar to the commands D and C.

Editing with Vi

:map #1 iandCTRL v Escape Identify the key F1 to insert and

before the cursor.

CTRL v is used to protect the ESCAPE key

from immediate action.

:map Displays the key mappings.

:x Exits *vi* after saving all changes.

:q Exits *vi* when no changes have been made.

:q! Exits *vi* without saving changes.