



Basic Navigation

Movement

<code>h</code>	Move cursor left
<code>j</code>	Move cursor down
<code>k</code>	Move cursor up
<code>l</code>	Move cursor right
<code>w</code>	Move to the beginning of the next word
<code>b</code>	Move to the beginning of the previous word
<code>0</code>	Move to the beginning of the line
<code>\$</code>	Move to the end of the line

Scrolling

<code>Ctrl + d</code>	Scroll down half a page
<code>Ctrl + u</code>	Scroll up half a page
<code>Ctrl + f</code>	Scroll forward one full page
<code>Ctrl + b</code>	Scroll backward one full page

Line Navigation

<code>gg</code>	Go to the first line of the file
<code>G</code>	Go to the last line of the file
<code>:</code>	Go to a specific line number (e.g., <code>:10</code>)
<code>[line_number]</code>	goes to line 10)
<code>]</code>	

Editing Commands

Basic Editing

<code>i</code>	Insert before the cursor
<code>a</code>	Append after the cursor
<code>o</code>	Open a new line below the current line
<code>O</code>	Open a new line above the current line
<code>x</code>	Delete character under cursor
<code>dd</code>	Delete the current line

Copy, Paste, and Delete

<code>yy</code>	Yank (copy) the current line
<code>p</code>	Paste after the cursor
<code>P</code>	Paste before the cursor
<code>dw</code>	Delete word
<code>d\$</code>	Delete to end of line
<code>D</code>	Delete to end of line

Undo and Redo

<code>u</code>	Undo last change
<code>Ctrl + r</code>	Redo last undone change
<code>.</code>	Repeat the last command

Search and Replace

Searching

<code>/pattern</code>	Search for <code>pattern</code> forward
<code>?pattern</code>	Search for <code>pattern</code> backward
<code>n</code>	Find next occurrence
<code>N</code>	Find previous occurrence

Replacing

<code>:%s/old/new/g</code>	Replace all occurrences of <code>old</code> with <code>new</code> in the file
<code>:%s/old/new/gc</code>	Replace all occurrences of <code>old</code> with <code>new</code> in the file, with confirmation
<code>:[range]s/old/new/g</code>	Replace all occurrences of <code>old</code> with <code>new</code> within the specified range (e.g., <code>:1,10s/old/new/g</code>)
<code>g</code>	

Visual Mode Search & Replace

1. Enter Visual mode (`v`, `V`, or `Ctrl-v`).
2. Select the text you want to operate on.
3. Type `:`. Vim will automatically populate the command line with `'<,'>`.
4. Enter the substitution command:
`:'<,'>s/old/new/g`.
5. Add `c` flag to confirm each substitution:
`:'<,'>s/old/new/gc`.

Saving and Exiting

Saving

<code>:w</code>	Save the current file
<code>:w filename</code>	Save the current file as <code>filename</code>

Exiting

<code>:q</code>	Quit Vim (only if no changes have been made)
<code>:q!</code>	Quit Vim, discard all changes
<code>:wq</code>	Save and quit
<code>:x</code>	Save and quit (only if changes have been made)
<code>:ZZ</code>	Save and quit (if changes have been made)

Combining Saving and Exiting

You can combine saving and exiting commands. For example, `:wq` will save the file and then quit Vim. If you want to save the file under a new name and exit, you would use `:w filename` followed by `:q`.