



## Basic Navigation

### Movement

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

### Scrolling

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

### Line Navigation

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

## Editing Commands

### Basic Editing

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

### Copy, Paste, and Delete

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

### Undo and Redo

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

## Search and Replace

### Searching

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

### Replacing

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

### 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

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

### Exiting

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