## VIM Quick Reference Card

### Basic movement
- `h` `l` `k` `j` character left, right, line up, down
- `b` `w` word/token left, right
- `ge` `e` beginning of previous, next paragraph
- `0` `g.` `m` beginning, middle of line
- `.` `$` first, last character of line
- `ng` `gg` line `n`, default the last, first
- `%` percentage `n` of the file (`n` must be provided)
- `n|` `n` column `n` of current line
- `n%` `n` match of next brace, bracket, comment, `#define`
- `nH` `nL` `n` line `n` from start, bottom of window
- `M` `m` `n` `m` middle line of window

### Insertion & replace – insert mode
- `i` `a` insert before, after cursor
- `I` `A` insert at beginning, end of line
- `gI` `I` insert text in first column
- `o` `O` open a new line below, above the current line
- `rc` `c` replace character under cursor with `c`
- `g` `g` like `r`, but without affecting layout
- `R` `R` replace characters starting at the cursor
- `gR` `R` like `R`, but without affecting layout
- `cm` `m` change text of movement command `m`
- `cc` `c` change current line
- `C` `C` change to the end of line
- `s` `s` switch case and advance cursor
- `g` `G` switch case of movement command `m`
- `gum` `um` lowercase, uppercase text of movement
- `<m>` `m` shift left, right, text of movement
- `n<<` `n` shift `n` lines left, right

### Deletion
- `x` `X` delete character under, before cursor
- `dm` `m` delete text of movement command `m`
- `dd` `d` delete current line, to the end of line
- `J` `gJ` join current line with next, without space
- `:rd` `d` delete range `r` lines
- `:rdr` `r` delete range `r` lines into register `r`
- `:rde` `e` delete range `e` lines
- `:red` `d` delete range `d` lines

### Insertion & replace
- `+` `+` insert character `+` literally
- `A` `a` insert previously inserted text
- `o` `O` same as `A` and stop insert → command mode
- `R` `r` insert content of register `x`
- `N` `p` text completion before, after cursor
- `W` `w` delete word before cursor
- `U` `u` delete all inserted character in current line
- `D` `d` shift left one shift width
- `K` `k` `c1` `c2` enter digraph
- `(esc)` `esc` abandon edition → command mode

### Copying
- `x` `x` use register `x` for next delete, yank, put
- `:reg<` `reg<` show the content of all registers
- `:reg` `reg<` show the content of registers `x`
- `ym` `m` yank the text of movement command `m`
- `yy` `y` yank current line into register
- `p` `P` `P` put register after, before cursor position
- `gp` `p` like `p`, `P` with indent adjusted
- `gP` `P` like `p`, `P` leaving cursor after new text

### Advanced insertion
- `g?m` `m` perform rot13 encoding on movement `m`
- `n` `A` `n` `X` `+n`, `−n` to number under cursor
- `gqm` `m` format lines of movement `m` to fixed width
- `:rce` `ce` center lines in range `r` to width `w`
- `:rle` `le` left align lines in range `r` with indent `i`
- `:rr` `r` right align lines in range `r` to width `w`
- `!mc` `m` filter lines of movement `m` through command `c`
- `!tc` `tc` filter `n` lines through command `c`
- `!r` `r` filter range `r` lines through command `c`

### Visual mode
- `v` `V` `v` start/stop highlighting characters, lines, block
- `o` `O` exchange cursor position with start of highlighting
- `gv` `v` start highlighting on previous visual area
- `aw` `A` `a` select a word, a sentence, a paragraph
- `ab` `Ab` select a block (.), a block `{}`

### Undoing & repeating commands
- `u` `U` undo last command, restore last changed line
- `. ` `.` `.` `.` repeat last changes, redo last undo
- `n` `n` repeat last changes with count replaced by `n`
- `qc` `qC` record, append typed characters in register `c`
- `q` `q` stop recording
- `c` `c` execute the content of register `c`
- `@` `@` `@` `@` repeat previous `@` command
- `:c` `c` execute register `c` as an `Ex` command
- `:rg` `rg` execute `Ex` command `c` on range `r`
- `:r` `r` repeat substitution with new `r` & `x`

### Complex movement
- `-` `+` line up/down on first non-blank character
- `B` `W` `W` `space-separated` word left, right
- `gE` `E` end of space-separated word left, right
- `n` `n` `n` down `n` – 1 line on first non-blank character
- `g0` `0` `0` beginning of screen line
- `g` `g` `g` first, last character of screen line
- `gk` `k` `k` screen line up, down
- `fc` `c` `c` next, previous occurrence of character `c`
- `tc` `c` `c` before next, previous occurrence of `c`
- `;` `;` `;` repeat last `ft` `T`, in opposite direction
- `[]` `[]` end of section backward, forward
- `[[]]` `[]` `[]` unclosed `[,]` backward, forward
- `{[]}` `[]` `[]` unclosed `{}` backward, forward
- `[m]` `m` `m` start, end of backward, forward `java` method
- `[#]` `#` `#` unclosed `#`, `#` backward, forward
- `[*]` `*` `*` `*` start, end of `/* */` backward, forward

### Search & substitution
- `?s` `s` `s` search forward, backward for `s`
- `/s` `s` `s` search forward, backward for `s`
- `s/` `/` `/` `/` repeat forward last search
- `N` `n` `n` `n` repeat backward last search
- `#` `#` `#` search backward, forward for word under cursor
- `g#` `#` `#` `#` same, but also find partial matches
- `gd` `d` `d` `d` local, global definition of symbol under cursor
- `:ra/` `ra/` `ra/` substitute `f` by `t` in range `r`
- `x` `g` `g` `g` all occurrences, `c` confirm changes
- `:ra` `ra` `ra` `ra` repeat substitution with new `r` & `x`
Special characters in search patterns

- * \+ \langle \rangle \[ \]\{ \} \e \t \r \b \p \P \f \F \k \K \i \I

Marks and motions

- \f \jumps \ap \tnot \cmark \cmarks \cjump \cmarks \cjump \cmarks \cjump

Scrolling & multi-windowing

- \E \Y \tla \tlb \tr \tb \dz \dz \dzc \dzc \dzc \dzc \dzc \dzc \dzc \dzc

Ex commands (\s\s)

- \e \f \e \f \e \f \e \f \e \f \e \f \e \f

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