**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, middle of line
- `{ }` beginning of previous, next paragraph
- `0 gm` beginning of previous, next sentence
- `- $` first, last character of line
- `nG ngg` line `n`, default the first, first `n%` percentage of line
- `%` match of next brace, bracket, comment, `#define` `nH nL` line `n` from start, bottom of window
- `M` middle line of window

**Insertion & replace → insert mode**
- `i a` insert before, after cursor
- `I A` insert at beginning, end of line
- `gI` insert in first column
- `0` open a new line below, above the current line
- `rc` replace character under cursor with `c`
- `g�` like `r`, but without affecting layout
- `R` replace characters starting at the cursor
- `gR` like `R`, but without affecting layout
- `cm` change text of movement command
- `c` change line
- `s` change one character and insert
- `-` switch case and advance cursor
- `g` switch case of movement command
- `gum gum` lower case, 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` delete text of movement command
- `dd` delete current line, to the end of line
- `J gJ` join current line with next, without space
- `:rd` delete range `r` lines
- `:rdr` delete range `r` lines into register `x`

**Insert mode**
- `^c` insert character `c` literally, decimal value `n`
- `^A` insert previously inserted text
- `^G` same as `A` and stop insert → command mode
- `^R` insert content of register `x`, literally
- `^N ^P` text completion before, after cursor
- `^W` delete word before cursor
- `^U` delete all inserted character in current line
- `^D ^T` shift left, right one shift width
- `^K ^E c2 c1` enter digraph `{c1,c2}`
- `^C` execute `c` in temporary command mode
- `^E` `^Y` scroll up, down
- `^X` `^Y` abandon edition → command mode

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

**Advanced insertion**
- `g? m m` perform rot13 encoding on movement `m`
- `n` `n X` `+n`, `-n` to number under cursor
- `gqm` format lines of movement `m` to fixed width
- `:rce w→` center lines in range `r` to width `w`
- `:rl e←` left align lines in range `r` with indent `i`
- `:rri w→` right align lines in range `r` to width `w`
- `!mece` filter lines of movement `m` through command `c`
- `!n!ce` filter `n` lines through command `c`
- `!r!ce` filter range `r` lines through command `c`

**Undoing, repeating & registers**
- `u U` undo last command, restore last changed line
- `R` repeat last changes, redo last undo
- `n` repeat last changes with count replaced by `n`
- `q` `qC` record, append typed characters in register `c`
- `q` `q` `q` `q` stop recording
- `:oc` execute the content of register `c`
- `:o→` repeat previous `o` command
- `<c` `c` `c` execute register `c` as an `Ex` command
- `:reg/p/c→` execute `Ex` command `c` on range `r`
  - where pattern `p` matches

**Complex movement**
- `- +` line up, down on first non-blank character
- `B W` space-separated word left, right
- `gE` `E` end of space-separated word left, right
- `n -` down `n` line on first non-blank character
- `gG` `G` beginning of screen line
- `g` `g` `g` first, last character of screen line
- `gk` `gj` `gj` `gk` screen line up, down
- `fc` `Fc` next, previous occurrence of character `c`
- `tc` `Tc` before next, previous occurrence of `c`
- `;` `;` repeat last `ftFT`, in opposite direction
- `[[ ]]` start of section backward, forward
- `[] ` `[]` end of section backward, forward
- `(( ))` unclosed `(` `)` backward, forward
- `[ ]` `[]` unclosed `{ }` backward, forward
- `;` `;` start, end of `/* */` backward, forward

**Search & substitution**
- `/s` `s` search forward, backward for `s`
- `/s/o` `s` `s` `s` `s` find word, bwd for `s` with offset `o`
- `n` `n` `n` repeat forward last search
- `N` `N` `N` `N` repeat backward last search
- `#` `#` `#` `#` search backward, forward for word under cursor
- `g#` `g#` `g#` `g#` same, but also find partial matches
- `gd` `gd` `gd` `gd` local, global definition of symbol under cursor
- `:ra/f/t/x←` substitute `f` by `t` in range `r`
  - `x` `g` all occurrences, `c` confirm changes
- `:rs x←` `x` repeat substitution with new `r` & `x`
Offsets in search commands
\[\text{n} \rightarrow \text{n} \text{ line downward in column 1}
\]
\[\text{–n} \rightarrow \text{n} \text{ line upward in column 1}
\]
\[\text{e+n} \rightarrow \text{e} \text{ characters right, left to end of match}
\]
\[\text{s+n} \rightarrow \text{s} \text{ characters right, left to start of match}
\]
\[\text{;sc} \rightarrow \text{execute search command sc next}
\]

Marks and motions
\[\text{mc} \rightarrow \text{mark current position with mark c} \in [a..Z]
\]
\[\text{c'C} \rightarrow \text{go to mark c in current, C in any file}
\]
\[\text{'0..9} \rightarrow \text{go to last exit position of file}
\]
\[\text{'r} \rightarrow \text{go to position before jump, at last edit}
\]
\[\text{'[]} \rightarrow \text{go to start, end of previously operated text}
\]
\[\text{marks} \rightarrow \text{print the active marks list}
\]
\[\text{jump} \rightarrow \text{print the jump list}
\]
\[\text{n'O} \rightarrow \text{go to n-th older position in jump list}
\]
\[\text{n'T} \rightarrow \text{go to n-th newer position in jump list}
\]

Key mapping & abbreviations
\[\text{:map} \rightarrow \text{map c e} \rightarrow \text{map c in normal & visual modes}
\]
\[\text{map!} \rightarrow \text{map c e} \rightarrow \text{in insert & cmd-line mode}
\]
\[\text{unmap} \rightarrow \text{unmap c} \rightarrow \text{remove mapping c}
\]
\[\text{mk f} \rightarrow \text{write current mappings, settings... to file f}
\]
\[\text{ab c} \rightarrow \text{add abbreviation for c e}
\]
\[\text{ab} \rightarrow \text{show abbreviations starting with c}
\]
\[\text{una} \rightarrow \text{remove abbreviation c}
\]

Special characters in search patterns
\[. * \rightarrow \text{any single character, start, end of line}
\]
\[\text{< | >} \rightarrow \text{start, end of word}
\]
\[\text{[c1-c2]} \rightarrow \text{a single character in range c1..c2}
\]
\[\text{[c1-c2]} \rightarrow \text{a single character not in range}
\]
\[/ \rightarrow \text{a name, printable char.; excl. digits}
\]
\[\text{\| \& \| \&} \rightarrow \text{a white space, a non-white space}
\]
\[\text{\&\&} \rightarrow \text{an identifier, keyword; excl. digits}
\]
\[\text{\&t \&r \&b} \rightarrow \text{(exc), (tab), (-|), (-)-}
\]
\[\text{\=} \rightarrow \text{match 0..1, 0..0, 1.. of preceding atoms}
\]
\[\text{\| \&} \rightarrow \text{separate two branches (\text{\& or \|})}
\]
\[\text{\&n} \rightarrow \text{the whole matched pattern, n-th (\text{\& n}) group}
\]
\[\text{\&\&n} \rightarrow \text{next character made upper, lowercase}
\]

Ex ranges
\[, ; \rightarrow \text{separates two lines numbers, set to first line}
\]
\[\text{n} \rightarrow \text{an absolute line number n}
\]
\[\$ \rightarrow \text{the current line, the last line in file}
\]
\[\% \rightarrow \text{entire file, visual area}
\]
\['t \rightarrow \text{position of mark t}
\]
\[/p/ ?p? \rightarrow \text{the next, previous line where p matches}
\]
\[+n -n \rightarrow +n, -n to the preceding line number
\]

Tags
\[\text{:ta} \rightarrow \text{jump to tag t}
\]
\[\text{:nta} \rightarrow \text{jump to n-th newer tag in list}
\]
\[\text{:t} \rightarrow \text{jump to the tag under cursor, return from tag}
\]
\[\text{:ts} \rightarrow \text{list matching tags and select one for jump}
\]
\[\text{\text{:tags}} \rightarrow \text{print tag list}
\]
\[\text{\text{:npo}} \rightarrow \text{n tag back from, to n-th older tag}
\]
\[\text{\text{:tl}} \rightarrow \text{jump to last matching tag}
\]
\[\text{\text{:W}} \rightarrow \text{print tag under cursor, tag t}
\]
\[\text{\text{:W}} \rightarrow \text{split window and show tag under cursor}
\]
\[\text{\text{:W}} \rightarrow \text{close tag preview window}
\]

Scrolling & multi-windowing
\[\text{\text{:E Y}} \rightarrow \text{scroll line up, down}
\]
\[\text{\text{:D U}} \rightarrow \text{scroll half a page up, down}
\]
\[\text{\text{:F B}} \rightarrow \text{scroll page up, down}
\]
\[\text{\text{:zt}} \rightarrow \text{set current line at top of window}
\]
\[\text{\text{zz}} \rightarrow \text{set current line at center of window}
\]
\[\text{\text{zb}} \rightarrow \text{set current line at bottom of window}
\]
\[\text{\text{zh}} \rightarrow \text{scroll one character to the right, left}
\]
\[\text{\text{zH}} \rightarrow \text{scroll half a screen to the right, left}
\]
\[\text{\text{Ws}} \rightarrow \text{split window into two}
\]
\[\text{\text{Wn}} \rightarrow \text{create new empty window}
\]
\[\text{\text{Wo}} \rightarrow \text{make current window one on screen}
\]
\[\text{\text{Wj}} \rightarrow \text{move to window below, above}
\]
\[\text{\text{Ww} Ww} \rightarrow \text{move to window below, above (wrap)}
\]

Ex commands (\text{-})
\[\text{:e f} \rightarrow \text{edit file f, unless changes have been made}
\]
\[\text{:e! f} \rightarrow \text{edit file f always (by default reload current)}
\]
\[\text{:wn} \rightarrow \text{write file and edit next, previous one}
\]
\[\text{\text{:n} \rightarrow \text{edit next, previous file in list}}
\]
\[\text{:rw} \rightarrow \text{write range r to current file}
\]
\[\text{:rw} \rightarrow \text{write range r to file f}
\]
\[\text{:rw} \rightarrow \text{append range r to file f}
\]
\[\text{:q} \rightarrow \text{quit and confirm, quit and discard changes}
\]
\[\text{\text{:wq}} \rightarrow \text{write to current file and exit}
\]
\[\text{\text{:wq} \rightarrow \text{write file and exit}}
\]

Misellaneous
\[\text{sh} \rightarrow \text{start shell, execute command c in shell}
\]
\[\text{K} \rightarrow \text{lookup keyword under cursor with man}
\]
\[\text{make} \rightarrow \text{start make, read errors and jump to first}
\]
\[\text{cn} \rightarrow \text{display the next, previous error}
\]
\[\text{cl} \rightarrow \text{list all errors, read errors from file}
\]
\[\text{L} \rightarrow \text{redraw screen, show filename and position}
\]
\[\text{g} \rightarrow \text{show cursor column, line, and character position}
\]
\[\text{ga} \rightarrow \text{show ASCII value of character under cursor}
\]
\[\text{gf} \rightarrow \text{open file which filename is under cursor}
\]
\[\text{redir> f} \rightarrow \text{redirect output to file f}
\]
\[\text{mkview} \rightarrow \text{save view configuration [to file f]}
\]
\[\text{loadview} \rightarrow \text{load view configuration [from file f]}
\]

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