## Vim Commands Cheat Sheet

### Moving
- **h**: move cursor left
- **j**: move cursor down
- **k**: move cursor up
- **l**: move cursor right
- **#h [j/k/l]**: move in a specified direction multiple times
- **b / B**: move to the start of a word / token
- **w / W**: move to the start of the next word / token
- **e / E**: move to the end of a word / token
- **0 (zero)**: jump to the beginning of line
- **$**: jump to the end of line
- **^**: jump to the first (non-blank) character of line
- **8G / #gg / #**: move to a specified line number (replace # with the line number)

### Editing
- **r**: replace a single character (+ return to command mode)
- **cc**: replace entire line (+ move into insert mode)
- **C / c**: replace from cursor to the end of line
- **cw**: replace from cursor to the end of the word
- **s**: delete a character (+ move into insert mode)
- **j**: merge with line below, separated with a single space
- **gj**: merge with line below, with no space between
- **.**: repeat last command

### Inserting
- **i**: switch to insert mode before the cursor
- **I**: insert text at the beginning of the line
- **a**: switch to insert mode after the cursor
- **A**: insert text at the end of the line
- **o**: open a new line below the current one
- **O**: open a new line above the current one
- **ea**: insert text at the end of the word
- **Esc**: exit insert mode

### Deleting
- **dd / D**: delete a single line
- **dw**: delete a single word
- **#dd / #dd**: delete multiple lines
- **#s / #s**: delete a range of lines
- **#d**: delete all lines
- **2:#d**: delete from current line to the end of file
- **dgg**: delete from current line to the beginning of file
- **g / pattern/d**: delete lines containing a specified pattern
- **g / pattern/d**: delete lines that don't contain a specified pattern
- **g / * / s / d**: delete all blank lines

### Copying
- **yy**: copy an entire line
- **#yy**: copy the specified number of lines
- **yaw**: copy a word with its trailing whitespace
- **yiw**: copy a word without its trailing whitespace
- **yS**: copy everything right of the cursor
- **y^**: copy everything left of the cursor
- **ytz**: copy everything between the cursor and a specified character (X)
- **yfx**: copy everything between the cursor and a specified character (including that character)

### Pasting
- **p**: paste text after the cursor
- **P**: paste text before the cursor

### Undoing/Redoing
- **u / uw / undo**: undo changes made in last entry
- **#u**: undo multiple changes
- **U**: undo latest changes in line
- **#Ctrl+r**: redo the last undone entry
- **j**: merge with line below, separated with a single space
- **gj**: merge with line below, with no space between
- **.**: repeat last command

### Searching
- **:** jump to the next instance of a word
- **#**: jump to the previous instance of a word
- /pattern**: search forward for the specified pattern
- ?pattern**: search backward for the specified pattern
- n**: repeat the search in the same direction
- N**: repeat the search in the opposite direction

### Visual Commands
- **y**: yank (copy) the marked text
- **d**: delete (cut) the marked text
- **p**: paste the text after the cursor
- **u**: change the marked text to lowercase
- **U**: change the marked text to uppercase

### Marks and Jumps
- **m[a-z]**: marking text using character mode from a to z
- **m[a-z]**: mark lines using line mode from a to z
- **a**: jump to position marked a
- **y^**: yank text to position marked a
- `.': jump to last change in file
- `': jump to last edit in file
- `0': jump to position where Vim was last exited
- `**: jump to last jump
- .:marks list all marks
- .:jumps list all jumps
- .:changes list all changes
- :Ctrl+i +ve move to next instance in jump list
- :Ctrl+i +o move to previous instance in jump list
- g-: move to next instance in change list
- g-: move to previous instance in change list

### Macros
- qa**: record macro a
- q**: stop recording macro
- @a**: run macro a
- @@@**: run last macro again

### Multiple Files
- :e file_name**: open a file in a new buffer
- .:b**: move to next buffer
- .:bp**: go back to previous buffer
- .:bd**: close buffer
- .:b#**: move to the specified buffer (by name)
- .:b file_name**: move to the specified buffer (by name)
- .:s**: list all buffers
- .:sp file_name**: open a file in a new buffer and split viewport horizontally
- .:vs file_name**: open a file in a new buffer and split viewport vertically
- .:vert ba**: edit all files as vertical viewports
- .:tab ba**: edit all buffers as tabs
- .:g**: move to next tab
- .:gT**: move to previous tab
- :Ctrl+ws**: split viewport horizontally
- :Ctrl+vw**: split viewport vertically
- :Ctrl+wx**: exchange current viewport with next one
- Ctrl++**: make all viewports equal height and width

### Color Schemes
- :colorscheme [colorscheme_name]**: change to specified scheme
- :colorscheme [space]+Ctrl+d**: list available Vim color scheme
- Ctrl+wx**: exchange current viewport with next one
- Ctrl++**: make all viewports equal height and width