

# Helix Cheatsheet

## Usage

### Registers

Usage: " + <char> + <action> (e.g., "ay).

#### User-defined

- "ay: Yank selection to register a.
- "op: Paste register o after selection.
- "hc: Store in h, then change (delete & insert).
- "md: Store in m, then delete.

#### Default Registers

- /: Last search pattern.
- :: Last executed command.
- ": Last yanked text.
- @: Last recorded macro.

#### Special Registers

- \_: Black hole; all values are discarded.
- #: Selection indices (1, 2, 3...). Read-only.
- .: Contents of current selections. Read-only.
- %: Name of the current file. Read-only.
- +: System clipboard (yank/paste).
- \*: Primary clipboard (yank/paste).

### Surround (Match Mode m)

Inspired by vim-sandwich. Supports counts and multiple selections.

- ms<char>: Add surround to selection.
- mr<from><to>: Replace closest surround.
- md<char>: Delete closest surround.
- Example: % (select all) -> s (split) -> use -> mr([ (change (use) to [use]).

### Textobjects (Match Mode m)

- ma: Select **around** the object (includes delimiters).
- mi: Select **inside** the object (excludes delimiters).

#### Object Keys

- w, W: Word, WORD.
- p: Paragraph.
- [, ], {, }, ', " : Specified surround pairs.
- m: The closest surround pair.
- f, t: Function, Type (or Class). (TS)
- a: Argument/parameter. (TS)
- c: Comment. (TS)
- T: Test. (TS)

- g: Change.

### Syntax aware motions (TS)

Move the selection according to its location in the syntax tree.

- Alt-o: **Expand** selection to parent node.
- Alt-i: **Shrink** selection to child node.
- Alt-p: Move to **previous** sibling node.
- Alt-n: Move to **next** sibling node.
- Alt-a: Select all sibling nodes.

### Pickers (Space Mode)

#### Common Pickers

- f, F: File picker (root, cwd).
- b: Buffer picker.
- j: Jumplist picker.
- s, S: Symbol picker (doc, workspace).
- d, D: Diagnostics (doc, workspace).
- /: Global search.
- a: Code actions.
- k: Hover docs.

#### Interaction

- **Filtering**: Most use fuzzy fzf syntax.
- **Regex**: Global search uses regex.
- **Column filtering**: %prefix (e.g., %p .toml filters path).
- **Registers**: Ctrl-r + to insert register content.
- **Quick Global Search**: Space + / -> Enter (uses current search register /).

### Keymap (Normal Mode)

#### Movement

- h, j, k, l: Left, Down, Up, Right.
- w, b, e: Next, Prev, End of word.
- W, B, E: WORD (whitespace delimited).
- f, F, t, T: Find/Till char (multiline).
- G: Go to line .
- Home, End: Line start, end.
- C-u, C-d: Half page Up, Down.
- C-i, C-o: Jumplist Forward, Backward.

#### Changes

- i, a: Insert, Append.
- I, A: Insert at start, end of line.
- o, O: Open line below, above.
- u, U: Undo, Redo.
- Alt-u, Alt-U: Tree history Back, Forward.

- y, p, P: Yank, Paste after, before.
- d, c: Delete, Change.
- >, <: Indent, Unindent.
- =: Format (LSP).
- C-a, C-x: Increment, Decrement number.

#### Selection Manipulation

- s: Select regex matches in selections.
- S: Split selection on regex.
- ;: Collapse to cursor.
- Alt-;: Flip anchor and cursor.
- Alt-:: Ensure forward direction.
- C, Alt-C: Add cursor Below, Above.
- (, ): Rotate selections.
- %: Select entire file.
- x: Select/Extend line.
- J: Join lines.
- C-c: Toggle comments.

#### Search

- /, ?: Search Forward, Backward.
- n, N: Next, Prev match.
- \*: Search selection (bounded).
- Alt-\*: Search selection (raw).

### Minor Modes

- v: Select/Extend mode.
- g: Goto mode (e.g., gh, ge, gd, gy).
- m: Match mode (surround, textobjects).
- z: View mode (e.g., zz, zt, zb).
- Ctrl-w: Window mode (splits, navigation).
- Space: Space mode (pickers, LSP).

### Unimpaired (Bracket [ ])

Navigate between structured elements (TS).

- ]d, [d: Next, Prev diagnostic.
- ]f, [f: Next, Prev function.
- ]t, [t: Next, Prev type/class.
- ]a, [a: Next, Prev argument.
- ]c, [c: Next, Prev comment.
- ]T, [T: Next, Prev test.
- ]g, [g: Next, Prev change.
- ]Space, [Space: Add newline below, above.

### Commands

- :w, :q, :wq: Save, Quit, Both.
- :e <file>, :o: Open file.
- :bn, :bp: Next, Prev buffer.

- :t <theme>: Set theme.
- :h <cmd>: Help.
- :tree-sitter-subtree: View syntax tree.

## Configuration

### Editor (config.toml)

```
theme = "nord"
[editor]
line-number = "relative"
cursor-shape.insert = "bar"
true-color = true
```

### Key remapping

```
[keys.normal]
"C-s" = ":w"
"C-q" = ":q"
```

## Guides

- Languages: languages.toml to define LSPs.
- Queries: runtime/queries/ for TS features.
- Indents: indents.scm for auto-indent.
- Injections: injections.scm for combined languages.