

Conventions

↑, ↓, ←, →	Up, Down, Left, Right
↵, ^, ⇧	Alt, Ctrl, Shift
a, b, c, <key>	a, b, and c keys, etc.
[Home], [Insert], [<Key>]	Home, Insert keys, etc.
{ [L }	Click left key of mouse
{ [R }	Click right key of mouse
*, **	Additional information in note area

This cheat sheet comes from *man tmux*.

See [Tmux on Github](#)

Help

?	List all key bindings
:list-keys	
:	Start command prompt

Default <prefix>: ^ + b

Prefix key table

Following sheets show shortcuts and commands under key table of default prefix.

```
set-option -g prefix "C-b"
```

```
set-option -g prefix2 "<your prefix>"
```

Buffer

#	
:list-buffer	List the global buffers
-	
:delete-buffer	Delete the most recently added buffer
=	
:choose-buffer	Start buffer mode (as a pane) for choosing one
]	
:paste-buffer	Insert the content of <i>current buffer</i>

Pane

x	Kill pane ✕
:kill-pane	
;	Focus at Last one
:last-pane	
o	Focus at Next one
:select-pane -t :.+	
↑, ↓, ←, →	Focus at Up, Down, Left, Right one
:select-pane -U/- D/-L/-R	
!	Move this pane to new window
:break-pane	
{	Swap position with <i>previous pane</i>
:swap-pane -U	
}	Swap position with <i>next pane</i>
:swap-pane -D	
↵ + 1	Spread out evenly(from left to right) ☐
:select-layout even-horizontal	
↵ + 2	Spread out evenly(from top to bottom)
:select-layout even-vertical	
↵ + 3	1. <i>Large pane</i> is on the top 2. <i>Rest panes</i> are spread on bottom - (from left to right)
:select-layout main-horizontal	
↵ + 4	1. <i>Large pane</i> is on the left 2. <i>Rest panes</i> are spread on right - (from top to bottom)
:select-layout main-vertical	
↵ + 5	Spread out as evenly as possible(rows and columns) ☐☐
:select-layout tiled	
q	Display <i>indicators</i> (as number) of panes
:display-panes	
m	Mark pane
:select-pane -m	
M	Clear mark of pane
:select-pane -M	



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☐ Pane (cont)

↶ + ↑, ↓, ↷, ↵, ↶ **Resize** pane by *5 lines*
`:resize-pane -U/-D/-L/-` *Up, Down, Left, Right*
 R 5

^ + ↑, ↓, ↶, ↷ **Resize** pane by *1 lines*
`:resize-pane -U/-D/-L/-` *Up, Down, Left, Right*
 R

Z *Resize* pane to **Maximum/Normal** size
`:resize-pane -Z`

☐ Window

& **Kill** window ✕
`:kill-window`

, **Rename** window(prompt)
`:rename-window`

. **Move** window(prompt)
`:move-window`

[0-9] *Select* <N> window
`:select-window -t :=`
 <N>

' *Select* <N> window(prompt)
`:select-window -t :%%`

l *Select* **last** window
`:last-window`

p *Select* **previous** window
`:previous-window`

f **Search** for the *fnmatch(3)* pattern in window names, titles, and visible content
`:find-window`

" **Split** window *vertically*
`:split-window`

% **Split** window *horizontally*
`:split-window -h`

^ + o **Rotate** panes in window
`:rotate-window`

☐ Client

d **Detach** client
`:detach-client`

r **Refresh** current client
`:refresh-client`

^ + z **Suspend** client
`:suspend-client`

i **Display** info of current pane ⓘ
`:display-message`

- **Show** client messages
`:show-messages`

L **Switch** the current session for client to **Last one**
`:switch-client -l`

(**Switch** the current session for client to **Previous one**
`:switch-client -p`

) **Switch** the current session for client to **Next one**
`:switch-client -n`

t **Display** a *large clock* ⌚
`":clock-mode"`

☐ Session

\$ **Rename** session
`:rename-session(prompt)`

☐ :choose-buffer

[Up], [Down] *Select* **previous/next** buffer

[Enter] **Choose** selected buffer

^ + s **Search** by name

n **Repeat** last search

t **Toggle** if buffer is tagged

^ + t Tag **all** buffers

T Tag **no** buffers

d, D Delete **selected/tagged** buffers



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:choose-buffer (cont)

f	Enter a format to filter items
O	Change sort order
v	Toggle preview
q	Exit mode

:choose-client

[Up], [Down]	Select previous/next client
[Enter]	Choose selected client
v	Toggle preview
^ + s	Search by name
n	Repeat last search
t	Toggle if <i>client is tagged</i>
^ + t	Tag all clients
T	Tag no clients
d, D	Detach selected/tagged clients
x, X	Detach and HUP selected/tagged client
z, Z	Suspend selected/tagged clients
f	Enter a format to filter items
O	Change sort order
q	Exit mode

:choose-tree

[Up], [Down]	Select previous/next item
[<], [>]	Scroll list of previews left/right
[Enter]	Choose selected item
^ + s	Search by name
n	Repeat last search
t	Toggle if <i>item is tagged</i>
^ + t	Tag all items
T	Tag no items
:	Run a command for each <i>tagged item</i>
f	Enter a format to filter items
O	Change sort order
v	Toggle preview
q	Exit mode

Copy Mode

[Start copy mode
[PageUp]	Start copy mode and scroll one page up
q	Quit copy mode
^ + c	

Vi Copy Mode

Following sheets show keys in **Vi edit mode**

set-window-option mode-keys vi

<N> - As key **0-9** for times of repeating the shortcuts

E.g.: "5j" - Move the cursor for left by **5 times**

<ch> - Any printable character

<word> - Continuous characters of [_0-9a-zA-Z]

<WORD> - Continuous non-blank characters

#line - As integer value for line number. E.g.: "13"

Copy/Selection

[Space] **Begin** selection

v, V **Rectangle/Line-wise** selection

o **Switch other end** in *selected area*

[Enter] **Copy selection***

^ + j

A **Append selection** to copied buffer*

D **Copy to end of line**(from current position)*

[Esc] **Clear** selection

* - Will **quit the copy mode** after the action

Q Search

/, ? **Start Search** <text> *forward/backward*

n, N <N> Search **next/reverse**

Cursor

<N> Move cursor for:
k, j, h, l **Up, Down, Left, Right**

↑, ↓, ←, →

^ + h **Left**

[Backspace]

Move cursor to(current line):

^ **First non-blank char**

0 **First char**

\$ **Last char**

Cursor (cont)

<N> Move cursor to(current line):

f<ch>, t<ch> **Next** <ch>/**T**<ch>

F<ch>, T<ch> **Previous** <ch>/<ch> **T**

;, , <N> **Repeat** the latest "*£/t<ch>*" in **same/opposite** direction

<N> Move cursor to:

w, W **Next beginning** of <word>/<WORD>

e, E **Next end** of <word>/<WORD>

b, B **Previous beginning** of <word>/<WORD>

{, } **Previous/Next** paragraph

<N> Move cursor to(current screen):

H **Top**(Head)

M **Middle**

L **Bottom**(Low)

Screen Scroll

^ + b, ^ + f <N> **Page Up/Down**

[PageUp], [PageDown]

^ + d, ^ + u <N> **Half Page Up/Down**

^ + ↑, ^ + ↓

^ + y <N> **One line Up**

^ + ↑

<N> **One line Down**

^ + e

^ + ↓

: #line **Goto** "#line" line ↓↑

g **Top** of history

G **Bottom** of history



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Emacs Copy Mode

Following sheets show keys in **Emacs edit mode**

set-window-option mode-keys emacs

Cancel mode: [Esc]

<N> - As key "**↩ + 0-9**" for times of repeating the shortcuts

E.g.: "**↩+5 ↵+b**" - Move the cursor for left by **5 times**

<ch> - Any printable character

#line - As integer value for line number. E.g.: "13"

Copy/Selection

↵ + [Space] Begin selection

↵ + w Copy selection*

↩ + w

↵ + k Copy to end of line(from current position)*

↵ + g Clear selection

* - Will *quit the copy mode* after the action

Q Search

↵ + r, ↵ + s Start Search <text> backward/forward

R Rectangle selection

n, N <N> Search next/reverse

Cursor

<N> Move cursor for:

↵ + p, ↵ + n Up, Down

↑, ↓

↵ + b, ↵ + f Left, Right

←, →

Move cursor to(current line):

↩ + m First non-blank char

↵ + a First char

[Home]

↵ + e Last char

[End]

<N> Move cursor to(current line):

f<ch>, t<ch> Next <ch>/**␣**<ch>

F<ch>, T<ch> Previous <ch>/<ch> **␣**

Cursor (cont)

;;, <N> Repeat the latest "**f/t<ch>**" in **same/opposite** direction

<N> Move cursor to:

↩ + f Next end of <word>

↩ + b Previous <word>

↩ + {, ↩ + } Next/Previous paragraph

<N> Move cursor to(current screen):

↩ + R, ↩ + r Top/Middle

Screen Scroll

[PageUp] <N> Page up

↩ + v

[Space] <N> Page down

[PageDown]

↵ + v

↩ + ↑, ↩ + ↓ <N> Half Page Up/Down

↵ + ↑, ↵ + ↓ <N> One line Up/Down

g #line Goto "#line" line **↓₁**

↩ + < Top of history

↩ + > Bottom of history



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Target pane

`<session>:<window>.<pane>` **Full name**

Special **token**:

! (*{last}*) **Last** pane
 + (*{next}*) **Next** window
 - (*{previous}*) **Previous** window

Offset

+<N>, -<N> **Next/Previous** offsets of pane

tokens (relative position):

{up-of} **Above**
 {down-of} **Below**
 {left-of} **to the Left**
 {right-of} **to the Right**
 of the *current* pane

tokens (absolute position):

{top} The **top**
 {bottom} The **bottom**
 {left} The **leftmost**
 {right} The **rightmost**
 {top-left} The **top-left**
 {top-right} The **top-right**
 {bottom-left} The **bottom-left**
 {bottom-right} The **bottom-right**
 pane

Target window

`<session>:<window>` **Full name**

1. As a special **token**:

^ (*{start}*) **Lowest-Numbered** window
 \$ (*{end}*) **Highest-Numbered** window
 ! (*{last}*) **Last** window
 + (*{next}*) **Next** window
 - (*{previous}*) **Previous** window

2. A window **index** `"session1:0", "session1:1"`

3. A Window **ID**(prefixed with @) `"@1", "@2"`

4. An **exact** window name `"session2:help", "session2:de-vs-1"`

Target window (cont)

5. The **start** of a window name `"session3:he", "session3:devs"`

6. As an **fnmatch(3)** **pattern** for matching the window name `"session4:he*", "session4:devs-?"`

`:list-windows (lsw)` **List** windows

`":<target-window>", ":",<target-window>", "<target-window>"` uses current session

Target session

1. A session **ID**(prefixed with \$) `"$0", "$1", "$2"`

2. An **exact** name `"Work", "Monitor-S1", "Monitor-S2"`

3. The **start** of session name `"Wo", "Monitor"`

4. An **fnmatch(3)** pattern for matching session name `"Monitor*", "Monitor-S?"`

Exact matching by prefixed with = `"=Work", "=Monitor-S2"`

`:list-sessions (ls)` **List** all sessions

`:has-session -t <target-session> (has)` Checks if a session is **existing**

Target client

Name is normally as *pty(7)* file `"/dev/pty0", "/dev/pts/1"`

`:list-clients (:lsc)` **List** clients



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