✏ 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
❋ , ❋❋	Additionl infomration in note area

This cheat sheet comes from `man tmux`.

See Tmux on Github

❓ Help

? `:list-keys`	**List** all key bindings
:	**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
- `:delet e-b uff er`	**Delete** the most *recently added* buffer
= `:choos e-b uff er`	Start **buffer mode**(as a pane) for choosing one
] `:paste -buffer`	**Insert** the content of *current buffer*

⬚ Pane

x `:kill-pane`	**Kill** pane ✖
; `:last-pane`	*Focus at* **Last** one
o `:selec t-pane -t :.+`	*Focus at* **Next** one
↑, ↓, ←, → `:selec t-pane -U/-D/-L/-R`	*Focus at* **Up**, **Down**, **Left**, **Right** one
! `:break -pane`	**Move** this pane to new window
{ `:swap-pane -U`	**Swap position** with *previous pane*
} `:swap-pane -D`	**Swap position** with *next pane*
↩ + **1** `:selec t-l ayout even-h ori zo ntal`	Spread out evenly(**from left to right**) ⬚
↩ + **2** `:selec t-l ayout even-v ertica l`	Spread out evenly(**from top to bottom**)
↩ + **3** `:selec t-l ayout main-h ori zo ntal`	1. *Large pane* is on the **top** 2. *Rest panes* are spread on **bottom**(from left to right)
↩ + **4** `:selec t-l ayout main-v ertica l`	1. *Large pane* is on the **left** 2. *Rest panes* are spread on **right**(from top to bottom)
↩ + **5** `:selec t-l ayout tiled`	Spread out as evenly as possible(**rows and columns**) ⬛
q `:displ ay- panes`	**Display** *indicators(as number)* of panes
m `:selec t-pane -m`	**Mark** pane
M `:selec t-pane -M`	**Clear mark** of pane

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⬜ Pane (cont)

↩ + ↑, ↓, ←, → `:resiz e-pane -U/-D/ -L/-R 5`	**Resize** pane by *5 lines*	*Up, Down, Left, Right*
∧ + ↑, ↓, ←, → `:resiz e-pane -U/-D/ -L/-R`	**Resize** pane by *1 lines*	*Up, Down, Left, Right*
z `:resiz e-pane -Z`	*Resize* pane to **Maximum/N-ormal** size	

⬜ Window

& `:kill- window`	**Kill** window ✖
, `:renam e-w indow`	**Rename** window(prompt)
. `:move- window`	**Move** window(prompt)
[0-9] `:selec t-w indow -t :=< N>`	*Select* **<N>** window
' `:selec t-w indow -t :%%`	*Select* **<N>** window(prompt)
l `:last- window`	*Select* **last** window
p `:previ ous -window`	*Select* **previous** window
f `:find- window`	**Search** for the *fnmatch(3) pattern* in window names, titles, and visible content
" `:split -window`	**Split** window *vertically*
% `:split -window -h`	**Split** window *horizontally*
∧ + o `:rotat e-w indow`	**Rotate panes** in window

⌨ Client

d `:detac h-c lient`	**Detach** client
r `:refre sh- client`	**Refresh** current client
∧ + z `:suspe nd- client`	**Suspend** client
i `:displ ay- message`	**Display** info of current pane ❶
- `:show- mes sages`	**Show** client messages
L `:switc h-c lient - l`	**Switch** the current session for client to *Last one*
(`:switc h-c lient - p`	**Switch** the current session for client to *Previous one*
) `:switc h-c lient - n`	**Switch** the current session for client to *Next one*
t `":clock-mode"`	**Display** a *large clock* 🕐

🔘 Session

$ `:renam e-s ession`(prompt)	**Rename** session

🗄 :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 *client is tagged*
⌃ + 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 *item is tagged*
⌃ + t	Tag **all** items
T	Tag **no** items
:	**Run** a command for each *tagged item*
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	

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ⓥ Vi Copy Mode

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

`set-wi ndo w-o ption 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

`<wo rd>` - Continuous characters of `[_0-9a -zA-Z]`

`<WO RD>` - 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] ⌃ + j	**Copy selection** ✱
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** `<te xt>` *forward/backward*
n, N	*<N>* Search **next/reverse**

ⓥ 🡙 Cursor

	<N> Move cursor for:
k, j, h, l ↑, ↓, ←, →	**Up, Down, Left, Right**
⌃ + h [Backspace]	**Left**
	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>*/⊤ *<ch>*
F<ch>, **T**<ch>	**Previous** *<ch>*/<ch>⊤
;, ,	*<N>* **Repeat** the latest " `f/t <ch >`" in *same/opposite* direction
	<N> Move cursor to:
w, W	**Next** *beginning* of `<wo rd>` /`<W ORD>`
e, E	**Next** *end* of `<wo rd>` /`<W ORD>`
b, B	**Previous** *beginning* of `<wo rd>` /`<W ORD>`
{, }	**Previous/Next** `paragraph`
	<N> Move cursor to(current screen):
H	**Top**(Head)
M	**Middle**
L	**Bottom**(Low)

ⓥ 🖥 Screen Scroll

⌃ + b, ⌃ + f [PageUp], [PageDown]	*<N> Page* **Up/Down**
⌃ + d, ⌃ + u ⌃ + ↑, ⌃ + ↓	*<N> Half Page* **Up/Down**
⌃ + y ⌃ + ↑	*<N> One line* **Up**
⌃ + e ⌃ + ↓	*<N> One line* **Down**
: *#line*	**Goto** *"#line"* line ↓⁹₁
g **G**	**Top** of *history* **Bottom** of *history*

⚙ Emacs Copy Mode

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

`set-wi ndo w-o ption 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*

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

⚙ ⎘ Copy/Selection

︿ + [Space]	**Begin** selection
︿ + w ↩ + w	**Copy selection** ✱
︿ + 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** `<te xt>` *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 [Home]	**First char**
︿ + e [End]	**Last char**
	<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 `<wo rd>`
↩ + b	**Previous** `<wo rd>`
↩ + {, ↩ +}	**Next/Previous** `paragraph`
	<N> Move cursor to(current screen):
↩ + R, ↩ + r	**Top/Middle**

⚙ 🖥 Screen Scroll

[PageUp] ↩ + v	*<N>* **Page up**
[Space] [PageDown] ︿ + v	*<N>* **Page down**
↩ + ↑, ↩ + ↓	*<N> Half Page* **Up/Down**
︿ + ↑, ︿ + ↓	*<N> One line* **Up/Down**
g *#line*	**Goto** *"#line"* line ↓⁰₁
↩ + <	**Top** of *history*
↩ + >	**Bottom** of *history*

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▥ Target pane

`<se ssi on> :<w ind ow>.<p ane>`	**Full name**
Specical **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

`<se ssi on> :<w ind ow>`	**Full name**
1. As a specical **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:devs-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- ses sions (ls)`	**List** all sessions
`:has-s ession -t <ta rge t-s ess ion> (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