



Tech Talk - tmux

15 Jan 2018



Tmux - terminal multiplexer

Wikipedia:

is a software application that can be used to multiplex several virtual consoles, allowing a user to access multiple separate terminal sessions inside a single terminal window or remote terminal session



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<https://github.com/tmux/tmux/wiki>:

is a terminal multiplexer. It lets you switch easily between several programs in one terminal, detach them (they keep running in the background) and reattach them to a different terminal. And do a lot more



Tmux - what do I use it for?

- To organise my desktop
 - I only have one terminal open with many windows + panes
- Mostly to work on remote machines
 - I can start jobs, detach tmux, log out → and go home
 - I can leave whatever I was working on (e.g. code) open, log out → and go home

Tmux - screen „cheat sheet“

<http://www.dayid.org/comp/tm.html>:

The formatting here is simple enough to understand (I would hope). ^ means ctrl+, so ^x is ctrl+x. M- means meta (generally left-alt or escape)+, so M-x is left-alt+x		
It should be noted that this is no where near a full feature-set of either group. This - being a cheat-sheet - is just to point out the most very basic features to get you on the road.		
Trust the developers and manpage writers more than me. This document is originally from 2009 when tmux was still new - since then both of these programs have had many updates and features added (not all of which have been dutifully noted here).		
Action	tmux	screen
start a new session	tmux <i>OR</i> tmux new <i>OR</i> tmux new-session	screen
re-attach a detached session	tmux attach <i>OR</i> tmux attach-session	screen-r
re-attach an attached session (detaching it from elsewhere)	tmux attach -d <i>OR</i> tmux attach-session -d	screen -dr
re-attach an attached session (keeping it attached elsewhere)	tmux attach <i>OR</i> tmux attach-session	screen -x
detach from currently attached session	^b d <i>OR</i> ^b :detach	^a ^d <i>OR</i> ^a :detach
rename-window to newname	^b , <newname> <i>OR</i> ^b :rename-window <newn>	^a A <newname>
list windows	^b w	^a w
list windows in chooseable menu		^a "
go to window #	^b #	^a #
go to last-active window	^b l	^a ^a
go to next window	^b n	^a n
go to previous window	^b p	^a p
see keybindings	^b ?	^a ?
list sessions	^b s <i>OR</i> tmux ls <i>OR</i> tmux list-sessions	screen -ls
toggle visual bell		^a ^g
create another window	^b c	^a c
exit current shell/window	^d	^d
split window/pane horizontally	^b "	^a S
split window/pane vertically	^b %	^a
switch to other pane	^b o	^a <tab>
kill the current pane	^b x <i>OR</i> (logout/^D)	
collapse the current pane/split (but leave processes running)		^a X
cycle location of panes	^b ^o	
swap current pane with previous	^b {	
swap current pane with next	^b }	

Tmux - short reference

Tmux man-page

<http://tmuxcheatsheet.com/>

Tmux Cheat SheetHomePlugins & Tools

Search cheats here

Sessions

\$ tmux

\$ tmux new

\$ tmux new-session

: new

Start a new session

\$ tmux new -s mysession

: new -s mysession

Start a new session with the name *mysession*

\$ tmux kill-ses -t mysession

\$ tmux kill-session -t mysession

kill/delete session *mysession*

\$ tmux kill-session -a

kill/delete all sessions but the current

\$ tmux kill-session -a -t mysession

kill/delete all sessions but *mysession*

Ctrl + b \$

Rename session

\$ tmux ls

\$ tmux list-sessions

Ctrl + b s

Show all sessions

\$ tmux a

\$ tmux at

\$ tmux attach

\$ tmux attach-session

Attach to last session

\$ tmux a -t mysession

\$ tmux at -t mysession

\$ tmux attach -t mysession

\$ tmux attach-session -t mysession

Attach to a session with the name *mysession*

Ctrl + b (

Move to previous session

Ctrl + b)

Tmux - what it looks like

09:45

```
top - 09:45:56 up 19:50, 9 users, load average: 0.67, 0.48, 0.41
Tasks: 274 total, 1 running, 273 sleeping, 0 stopped, 0 zombie
%Cpu(s): 9.6 us, 1.2 sy, 0.0 ni, 89.0 id, 0.0 wa, 0.0 hi, 0.2 si, 0.0 st
KiB Mem : 16089008 total, 10992820 free, 2361712 used, 2734476 buff/cache
KiB Swap: 7999484 total, 7999484 free, 0 used, 13349488 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1628	pharao	20	0	3711356	362580	127524	S	39.3	2.3	7:39.61	gnome-shell
29123	pharao	20	0	55144	4092	3296	R	0.7	0.0	0:00.60	top
191	root	-2	0	0	0	0	S	0.3	0.0	0:01.70	i915/signal:0
962	root	20	0	320624	11996	8176	S	0.3	0.1	0:08.38	polkitd
1175	gdm	20	0	870456	31980	24232	S	0.3	0.2	0:03.57	gsd-power
2146	pharao	20	0	14.370g	378484	156884	S	0.3	2.4	2:30.55	firefox
2415	pharao	20	0	815624	51388	38420	S	0.3	0.3	0:17.48	gnome-terminal-
27601	root	20	0	0	0	0	S	0.3	0.0	0:00.38	kworker/2:2
27726	root	20	0	0	0	0	S	0.3	0.0	0:00.41	kworker/u8:2
1	root	20	0	220276	8624	6364	S	0.0	0.1	0:04.20	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kthreadd
4	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kworker/0:0H
6	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	mm_percpu_wq
7	root	20	0	0	0	0	S	0.0	0.0	0:00.06	ksoftirqd/0
8	root	20	0	0	0	0	S	0.0	0.0	0:04.59	rcu_sched
9	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_bh
10	root	rt	0	0	0	0	S	0.0	0.0	0:00.01	migration/0
11	root	rt	0	0	0	0	S	0.0	0.0	0:00.01	watchdog/0
12	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/0
13	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/1
14	root	rt	0	0	0	0	S	0.0	0.0	0:00.01	watchdog/1
15	root	rt	0	0	0	0	S	0.0	0.0	0:00.01	migration/1
16	root	20	0	0	0	0	S	0.0	0.0	0:00.08	ksoftirqd/1
18	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kworker/1:0H
19	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/2
20	root	rt	0	0	0	0	S	0.0	0.0	0:00.01	watchdog/2
21	root	rt	0	0	0	0	S	0.0	0.0	0:00.01	migration/2
22	root	20	0	0	0	0	S	0.0	0.0	0:00.15	ksoftirqd/2
24	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kworker/2:0H
25	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/3
26	root	rt	0	0	0	0	S	0.0	0.0	0:00.01	watchdog/3
27	root	rt	0	0	0	0	S	0.0	0.0	0:00.01	migration/3
28	root	20	0	0	0	0	S	0.0	0.0	0:00.08	ksoftirqd/3
30	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kworker/3:0H
31	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kdevtmpfs
32	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	netns
37	root	20	0	0	0	0	S	0.0	0.0	0:00.00	khungtaskd
38	root	20	0	0	0	0	S	0.0	0.0	0:00.00	oom_reaper
39	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	writeback
40	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kcompactd0
41	root	25	5	0	0	0	S	0.0	0.0	0:00.00	ksmd
42	root	39	19	0	0	0	S	0.0	0.0	0:00.00	khugepaged
43	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	crypto
44	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kintegrityd
45	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kblockd

[09:31][oso]:~\$

(Ctrl-b) by default, followed by a command key.

The default command key bindings are:

C-b	Send the prefix key (C-b) through to the application.
C-o	Rotate the panes in the current window forwards.
C-z	Suspend the tmux client.
!	Break the current pane out of the window.
"	Split the current pane into two, top and bottom.
#	List all paste buffers.
\$	Rename the current session.
%	Split the current pane into two, left and right.
&	Kill the current window.
'	Prompt for a window index to select.
(Switch the attached client to the previous session.
)	Switch the attached client to the next session.
,	Rename the current window.
-	Delete the most recently copied buffer of text.
.	Prompt for an index to move the current window.
0 to 9	Select windows 0 to 9.
:	Enter the tmux command prompt.
;	Move to the previously active pane.
=	Choose which buffer to paste interactively from a list.
?	List all key bindings.

Manual page **tmux(1)** line 97 (press h for help or q to quit)

[0] 0:show-tmux-1:a-window*

"oso" 09:45 15-Jan-18