

Tmux

Live-Demonstration on a Raspberry Pi

USM/LMU Code Coffee, 02.06.2020

commands/keystrokes
with prefix: ^q
default prefix: ^b (not handy)
screen prefix: ^a (same as
beginning of line)

Session basics

start new session	tmux
detach session	d
Attach to last session	tmux attach
show available shortcuts	?
	tmux list-keys
	tmux list-commands
<i>Example: run a program – detach – disconnect reconnect to server – attach last session</i>	

Windows

create a new window	c
(see bottom task-bar)	
switch between windows	1 or 2
previous window	p
next window	n
choose window from a list	w
choose window with the mouse	modify config file
kill the current window	& (or use 'exit')
e.g. program freezed	
rename the current window	,

Panes

split horizontally	(default: ")
split vertically	-
kill current pane	x
e.g. programf freezed in pane	
Switching between panes:	
	left
	right
	up
	down
display pane numbers	q
switch to pane number	q 0...9
<i>moving/resizing panes:</i>	
convert current pane into a new window	!
Toggle pane zoom	z
swap current pane left	{
swap current pane right	}
move panes clockwise	Ctrl + o
<i>commands for resizing:</i>	
:resize-pane	

:resize-pane -D (Resizes the current pane down)	
:resize-pane -U (Resizes the current pane upward)	
:resize-pane -L (Resizes the current pane left)	
:resize-pane -R (Resizes the current pane right)	
:resize-pane -D 10 (Resizes the current pane down by 10 cells)	
:resize-pane -U 10 (Resizes the current pane upward by 10 cells)	
:resize-pane -L 10 (Resizes the current pane left by 10 cells)	
:resize-pane -R 10 (Resizes the current pane right by 10 cells)	
<i>or add:</i>	
bind j resize-pane -D 10	
bind k resize-pane -U 10	
bind l resize-pane -L 10	
bind h resize-pane -R 10	
<i>or use mouse:</i>	
In config file: set -g mouse on	
Layouts	
Applying predefined layouts (1-5):	
switch to next layout	space
Even-horizontal	
Even-vertical	
Main-horizontal	
Main-vertical	
tiled	
More about sessions	
show all sessions and select	s
tmux attach -t sessionname	
go to previous session	(
go to next session)
rename session	\$
tmux ls	
or command-line:	tmux new -s session-name
tmux kill-session -t session-name	
tmux kill-server	
list all session, window, pane, etc...	tmux info
synchronize command input	:
(send to all panes)	setw synchronize-panes on
	setw synchronize-panes off
or in config file:	
(prefix + ctrl-x)	
Plugin to restore sessions/windows/panes	
#store tmux environments	^s
continuous saving every 15 minutes	
show example: reboot	

copy/paste	
+Enter copy mode	[
+use arrow keys → from where to start copying	
+press ctrl + space to start copying	
+use arrow keys -> go to end of text to copy	
+ copy into tmux buffer	ctrl+w or alt+w
+paste tmux buffer]
change config file to use vim-like-key bindings ...	
(examples in the net)	
use mouse to copy text	
Buffer	
save buffer contents to files...	
Scripts-presentation	
+start programs in individual sessions	start_singleprogram.sh
+kill-sessions	
+start several programs in one session	start_programs.sh
+kill-session	
+start short programs with read command	start_programs_short.sh
+start short programs without read	start_programs_shortv2.sh