# Tmux

tmux is a terminal multiplexer: it enables a number of terminals to be created, accessed, and controlled from a single screen. tmux may be detached from a screen and continue running in the background then later reattached.

```
tmux [command]      # Run a command
                    # 'tmux' with no commands will create a new session

  new               # Create a new session
   -s "Session"     # Create named session
   -n "Window"      # Create named Window
   -c "/dir"        # Start in target directory

  attach            # Attach last/available session
   -t "#"           # Attach target session
   -d               # Detach the session from other instances

  ls                # List open sessions
   -a               # List all open sessions

  lsw               # List windows
   -a               # List all windows
   -s               # List all windows in session

  lsp               # List panes
   -a               # List all panes
   -s               # List all panes in session
   -t               # List all panes in target

  kill-window       # Kill current window
   -t "#"           # Kill target window
   -a               # Kill all windows
   -a -t "#"        # Kill all windows but the target

  kill-session      # Kill current session
   -t "#"           # Kill target session
   -a               # Kill all sessions
   -a -t "#"        # Kill all sessions but the target
```

## Key Bindings

The method of controlling an attached tmux session is via key combinations called 'Prefix' keys.

```
----------------------------------------------------------------------
  (C-b) = Ctrl + b    # 'Prefix' combination required to use keybinds

  (M-1) = Meta + 1 -or- Alt + 1
----------------------------------------------------------------------

  ?                   # List all key bindings
  :                   # Enter the tmux command prompt
  r                   # Force redraw of the attached client
```

```
c                    # Create a new window

!                    # Break the current pane out of the window.
%                    # Split the current pane into two, left and right
"                    # Split the current pane into two, top and bottom

n                    # Change to the next window
p                    # Change to the previous window
{                    # Swap the current pane with the previous pane
}                    # Swap the current pane with the next pane

s                    # Select a new session for the attached client
                       interactively
w                    # Choose the current window interactively
0 to 9               # Select windows 0 to 9

d                    # Detach the current client
D                    # Choose a client to detach

&                    # Kill the current window
x                    # Kill the current pane

Up, Down             # Change to the pane above, below, left, or right
Left, Right

M-1 to M-5           # Arrange panes:
                       # 1) even-horizontal
                       # 2) even-vertical
                       # 3) main-horizontal
                       # 4) main-vertical
                       # 5) tiled

C-Up, C-Down         # Resize the current pane in steps of one cell
C-Left, C-Right

M-Up, M-Down         # Resize the current pane in steps of five cells
M-Left, M-Right
```

### Configuring ~/.tmux.conf

tmux.conf can be used to set options automatically on start up, much like how .vimrc or init.el are used.

```
# Example tmux.conf
# 2014.10


### General
##########################################################################

# Enable UTF-8
setw -g utf8 on
set-option -g status-utf8 on

# Scrollback/History limit
```

```
set -g history-limit 2048

# Index Start
set -g base-index 1

# Mouse
set-option -g mouse-select-pane on

# Force reload of config file
unbind r
bind r source-file ~/.tmux.conf


### Keybinds
##############################################################################

# Unbind C-b as the default prefix
unbind C-b

# Set new default prefix
set-option -g prefix `

# Return to previous window when prefix is pressed twice
bind C-a last-window
bind ` last-window

# Allow swapping C-a and ` using F11/F12
bind F11 set-option -g prefix C-a
bind F12 set-option -g prefix `

# Keybind preference
setw -g mode-keys vi
set-option -g status-keys vi

# Moving between panes with vim movement keys
bind h select-pane -L
bind j select-pane -D
bind k select-pane -U
bind l select-pane -R

# Window Cycle/Swap
bind e previous-window
bind f next-window
bind E swap-window -t -1
bind F swap-window -t +1

# Easy split pane commands
bind = split-window -h
bind - split-window -v
unbind '"'
unbind %

# Activate inner-most session (when nesting tmux) to send commands
bind a send-prefix
```

```
### Theme
############################################################################

# Statusbar Color Palatte
set-option -g status-justify left
set-option -g status-bg black
set-option -g status-fg white
set-option -g status-left-length 40
set-option -g status-right-length 80

# Pane Border Color Palette
set-option -g pane-active-border-fg green
set-option -g pane-active-border-bg black
set-option -g pane-border-fg white
set-option -g pane-border-bg black

# Message Color Palette
set-option -g message-fg black
set-option -g message-bg green

# Window Status Color Palette
setw -g window-status-bg black
setw -g window-status-current-fg green
setw -g window-status-bell-attr default
setw -g window-status-bell-fg red
setw -g window-status-content-attr default
setw -g window-status-content-fg yellow
setw -g window-status-activity-attr default
setw -g window-status-activity-fg yellow


### UI
############################################################################

# Notification
setw -g monitor-activity on
set -g visual-activity on
set-option -g bell-action any
set-option -g visual-bell off

# Automatically set window titles
set-option -g set-titles on
set-option -g set-titles-string '#H:#S.#I.#P #W #T' # window number,program name,active (or not)

# Statusbar Adjustments
set -g status-left "#[fg=red] #H#[fg=green]:#[fg=white]#S#[fg=green] |#[default]"

# Show performance counters in statusbar
# Requires https://github.com/thewtex/tmux-mem-cpu-load/
set -g status-interval 4
set -g status-right "#[fg=green] | #[fg=white]#(tmux-mem-cpu-load)#[fg=green] | #[fg=cyan]%H:%M #[default]
```

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**References**

Tmux | Home

Tmux Manual page

Gentoo Wiki

Archlinux Wiki

Display CPU/MEM % in statusbar

tmuxinator - Manage complex tmux sessions