# CHEAT HERO SHEETS

## tmux Cheatsheet

A comprehensive guide to using tmux, the terminal multiplexer. This cheatsheet covers essential commands, session management, window and pane manipulation, and customization options to enhance your workflow.

Pane Management



## **Getting Started with tmux**

### **Basic Concepts**

#### What is tmux?

tmux is a terminal multiplexer: It allows you to run multiple terminal sessions within a single window. This is particularly useful for managing multiple programs from a single terminal, and for detaching and reattaching sessions.

#### Key Binding Prefix

Most tmux commands are prefixed with a key combination. By default, this is Ctrl+b (C-b). In this cheat sheet, C-b will be used to represent this prefix.

| tmux   | Starts a new tmux session.  |
|--|---|
| tmux new -s<br><session_name< td=""><td>Starts a new named session.</td></session_name<> | Starts a new named session.   |
| tmux attach  | Attaches to the default session.  |
| <pre>tmux attach - t <session_name></session_name></pre>                                 | Attaches to a specific session.   |
| C-b d  | Detaches the current session (leaves tmux running in the background).       |
| exit or C-d  | Closes the current pane/window.<br>Closes the session if it's the last one. |

Starting and Ending Sessions

### **Basic Navigation**

| C-b ?      | Shows the help screen with available key bindings.         |
|------------|--|
| C-b s      | Lists all tmux sessions and allows switching between them. |
| tmux<br>ls | Lists all active tmux sessions (from the command line).    |

# Working with Windows and Panes

### Window Management

| C-b c   | Creates a new window.                                | C-b "                   | Splits the current pane horizontally.                                |
|---------|--|-------------------------|--|
| C-b ,   | Renames the current window.                          | C-b %                   | Splits the current pane vertically.                                  |
| C-b n   | Goes to the next window.                             | C-b                     | Moves to the pane in the direction of the arrow key (up, down, left, |
| C-b p   | Goes to the previous window.                         | <arrow_key></arrow_key> | right).  |
| C-b 0-9 | Goes to the specified window number.                 | C-b o                   | Moves to the next pane.  |
| C-b w   | Displays a list of windows for selection.            | C-b {                   | Swaps the current pane with the previous pane.                       |
| C-b &   | Kills the current window (prompts for confirmation). | C-b }                   | Swaps the current pane with the next pane.                           |
|         |  | C-b x                   | Kills the current pane (prompts for confirmation).                   |
|         |  | C-h I                   | Breaks the current pape out into a new window                        |

## **Advanced Features and Customization**

### Copy Mode and Scrolling

| C-b       | Enters copy mode, allowing you to scroll and copy text.          |
|-----------|--|
| C-b       | Pastes the last copied text.                                     |
| Spac<br>e | In copy mode, starts text selection.                             |
| Ente      | In copy mode, copies the selected text.                          |
| q         | Exits copy mode.   |
| C-s       | In copy mode, enters search mode to find text within the buffer. |
| n/N       | In copy/search mode, goes to the next/previous search result.    |
|           |  |

### Configuration

tmux behavior can be configured through the /.tmux.conf file. This file is read when tmux starts.

C-b q

#### Example Configuration:

| # Set the prefix to Ctrl+a |  |  |
|----------------------------|--|--|
| unbind C-b                 |  |  |
| set -g prefix C-a          |  |  |
| bind C-a send-prefix       |  |  |
|                            |  |  |

# Enable mouse support
set -g mouse on

# Set default terminal mode
set -g default-terminal "xterm-256color"

# Reload configuration
bind r source-file ~/.tmux.conf \; display
"~/.tmux.conf reloaded!"

### Useful settings for .tmux.conf

by pressing its number.

Briefly displays pane numbers, allowing you to jump to a specific pane

| (set -g mouse on)  | Enables mouse support for<br>pane selection, resizing and<br>scrolling. |
|--|---|
| set -g default-<br>terminal "xterm-<br>256color"   | Sets the default terminal type for better color support.                |
| <pre>bind r source-file<br/>-/.tmux.conf \;<br/>display "~/.tmux.conf<br/>reloaded!"</pre> | Binds <b>C-b r</b> to reload the configuration file.                    |
| set -g status-<br>position top   | Positions the status bar at the top of the screen.                      |
| setw -g automatic-<br>rename on  | Automatically renames<br>windows based on the<br>running program.       |
| set -g history-limit<br>5000   | Increase the history limit  |

## **Status Bar Customization**

### Status Bar Options

| <pre>set -g status-justify <left center right></left center right></pre>   | Justifies the status bar<br>content.                                 |
|--|--|
| set -g status-left   | Sets the content for the left side of the status bar.                |
| <pre>set -g status-right ''</pre>  | Sets the content for the right side of the status bar.               |
| set -g status-style<br>'bg=#333333<br>fg=#aaaaaa'                          | Sets the background and foreground colors for the entire status bar. |
| setw -g window-<br>status-style<br>'fg=#bbbbbb<br>bg=default'              | Sets the style for inactive windows in the status bar.               |
| setw -g window-<br>status-current-style<br>'fg=#ffffff bg=#333333<br>bold' | Sets the style for the active window in the status bar.              |

#### Status Bar Variables

| #<br>(date) | Executes a shell command and displays its output. |
|-------------|---|
| #1          | Displays the window index.                        |
| #S          | Displays the session name.                        |
| #W          | Displays the window name.                         |
| #H          | Displays the hostname.                            |
| #T          | Displays the pane title.                          |

### Status Bar Examples

#### Example Status Bar Configuration

- set -g status-bg black
- set -g status-fg white
- set -g status-left '#[fg=green]Session: #S #
- [fg=yellow]#I #[fg=cyan]#P#[default]'
  set -g status-right '#[fg=cyan]%Y-%m-%d %H:%M#
  [default]'

This configuration sets a black background and white foreground for the status bar, displays the session name, window index, and pane index on the left, and the current date and time on the right.