



# tmux

涂銘洋

```
GNU nano  New Buffer  Modified
Hello.
This text file is my diary.
I have friends in Canada.
^G Ge^O Wr^R Re^Y Pr^K Cu^C Cur Po
^X Ex^J Ju^W Wh^V Ne^U Un^T To Spe
19:54 <@Ingifridh> Anyone up for a chat?
[19:54] [@Ingifridh(+i)] [6:du/#sunshine(+nt)]
[#sunshine]
[0] 0:lynx 1:mc- 2:irssi* " 19:54 09-Nov-11
```



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# Introduction

## *What is tmux?*

tmux (Terminal Multiplexer) is a powerful terminal management tool that allows users to run and manage multiple terminal sessions within a single window.

## *Key features of tmux*

- Window and Pane Splitting
  - Users can split the terminal into multiple panes (horizontally or vertically) and switch between them.
- Session Management
  - tmux sessions can **run in the background**, enabling users to detach and reattach without losing their progress. This is especially helpful for long-running tasks.

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# Installation

- Ubuntu

```
sudo apt-get install tmux
```

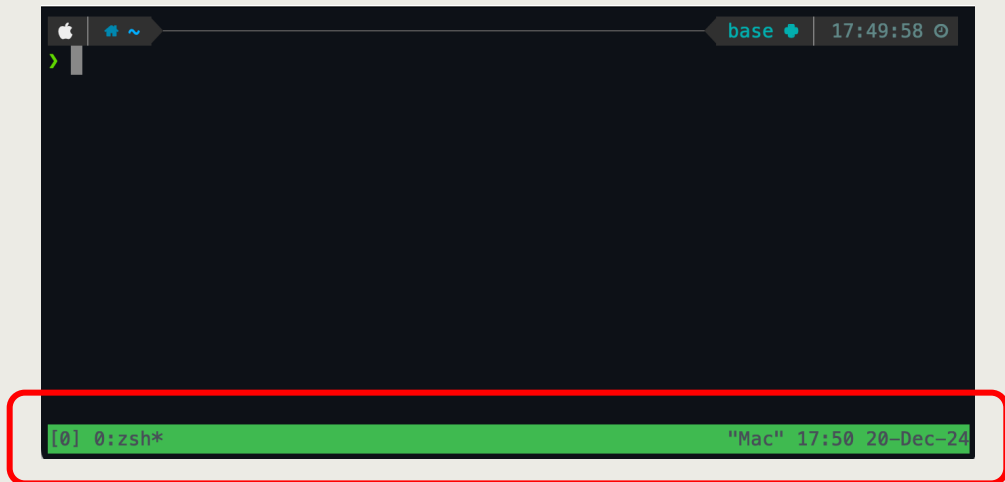
- MacOS

```
brew install tmux
```

# Getting Started

- To start a new session, enter `tmux` in the terminal.

```
tmux
```



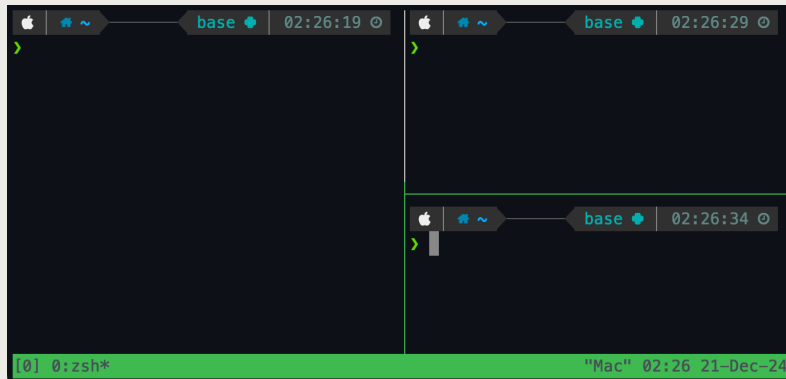
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# Basic Commands

- All commands in tmux are triggered by a ***prefix key*** followed by a ***command key***. By default, tmux uses `Ctrl+b` as prefix key.

# Basic Commands

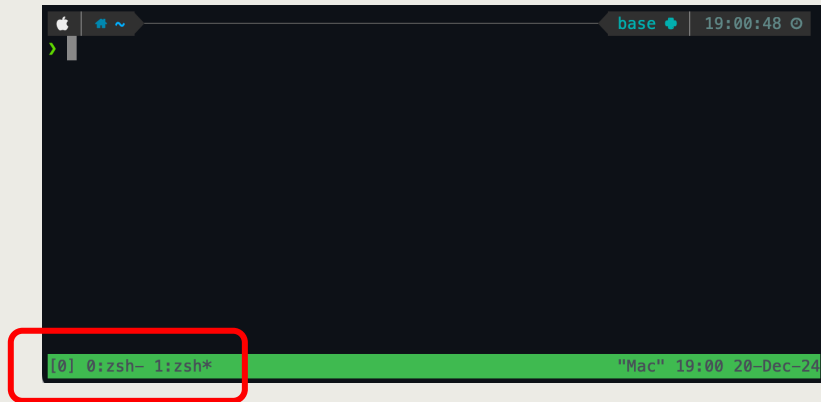
- All commands in tmux are triggered by a **prefix key** followed by a **command key**. By default, tmux uses `Ctrl+b` as prefix key.
- Horizontal Split: `Ctrl+b %`
- Vertical Split: `Ctrl+b "`
- Switch to pane to the direction:  
`Ctrl+b ↑ / ↓ / ← / →`





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- Horizontal Split: `Ctrl+b %`
- Vertical Split: `Ctrl+b "`
- Switch to pane to the direction:  
`Ctrl+b ↑ / ↓ / ← / →`
- Create a new window: `Ctrl+b c`
- Previous window: `Ctrl+b p`
- Next window: `Ctrl+b n`
- Switch window by number: `Ctrl+b 0-9`



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- Create a new window: `Ctrl+b c`
- Previous window: `Ctrl+b p`
- Next window: `Ctrl+b n`
- Switch window by number: `Ctrl+b 0-9`
- Rename current window: `Ctrl+b ;`
- Toggle pane zoom: `Ctrl+b z`
- Toggle between pane layouts: `Ctrl+b Spacebar`
- Close current pane: `Ctrl+b x`
- Detach from session: `Ctrl+b d`

**tmux cheat sheet:**  
<https://tmuxcheatsheet.com/>

# Session Handling

- Start a new session:

```
tmux  
tmux new  
tmux new -s <session_name>
```

- Show all sessions:

```
tmux ls
```

```
> tmux ls  
0: 2 windows (created Sat Dec 21 13:41:27 2024)
```

- Attach to a session:

```
tmux a -t <session_name>  
tmux attach -t <session_name>  
tmux a # attach to last session
```

- Delete session:

```
tmux kill-session -t <session_name>
```

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# .tmux.conf

- tmux uses a file called `.tmux.conf` to store its configuration. When tmux starts, it reads the files `/etc/tmux.conf` and `~/.tmux.conf` if they exist.
- Create `.tmux.conf`:

```
touch ~/.tmux.conf  
# or  
vim ~/.tmux.conf  
# or  
nano ~/.tmux.conf
```

# Common Configuration Changes

- Remap prefix from `Ctrl-b` to `Ctrl-a`

```
unbind C-b  
set -g prefix C-a  
bind C-a send-prefix
```

- Intuitive Split Commands (split panes using `|` and `-`)

```
bind | split-window -h  
bind - split-window -v  
unbind ""  
unbind %
```

# Common Configuration Changes

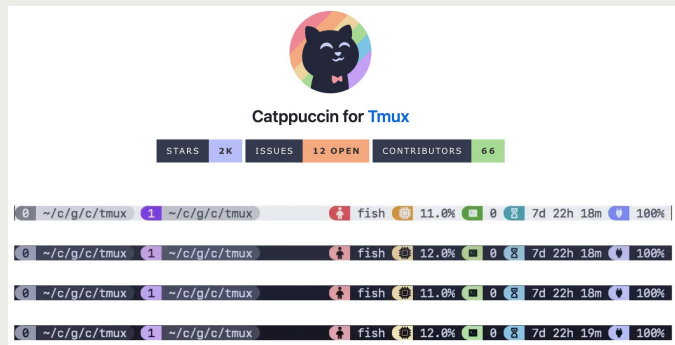
- Enable mouse control (clickable windows, panes, resizable panes)

```
set -g mouse on
```

- Changing the look of tmux



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



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# Reference

- **Official Documentation:** <https://github.com/tmux/tmux/wiki>
- **Tmux Cheat Sheet & Quick Reference:** <https://tmuxcheatsheet.com/>
- **A Quick and Easy Guide to tmux:** <https://hamvocke.com/blog/a-quick-and-easy-guide-to-tmux/>
- **Make tmux Pretty and Usable - A Guide to Customizing your tmux.conf:**  
<https://hamvocke.com/blog/a-guide-to-customizing-your-tmux-conf/>
- **The Missing Semester of Your CS Education - Command-line Environment:**  
<https://missing.csail.mit.edu/2020/command-line/>