

# Tmux-rime

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# Outline

- Rime/librime
- Tmux
- Tmux-rime

# Rime

## Introduction

### Rime

- Rime: **R**IME Input **M**ethod **E**ngine
- A framework provides IME library, frontends, and schemas
- Highly customizable and well-supported for schemas from 3rd-party developers

### Librime

- Rime's core library

# Rime

## Why Rime/Librime?

- Open-source
  - License: BSD 3-clause
- C API interface
- Lots of examples and applications
  - fcitx-rime
  - emacs-rime
  - ...

- Tmux: A **t**erminal **m**ultiplexer
- Highly customizable
  - keybindings
  - status bar
- Provide a large number of commands for scripting
  - new-window
  - send-keys
  - run-shell
  - ...

# Tmux-Rime

## Introduction

- Rime in Tmux
- Type CJK characters within terminal
- Written in Python, C and shell scripts
- Repo: <https://gitlab.com/Cycatz/tmux-rime>

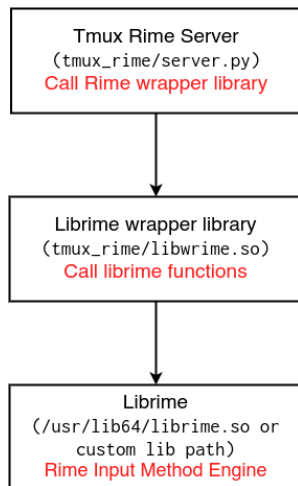
## Structure



# Tmux-rime

## Rime

- Tmux-rime server
- Librime wrapper library
  - Provide a simpler API interface
  - Use ctypes to connect between C and Python
- Librime
  - Rime Input Method Engine

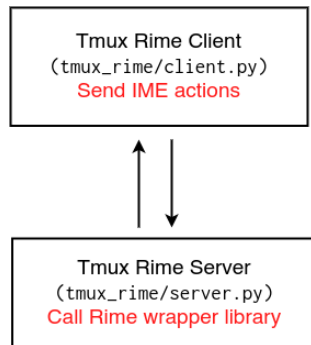




# Tmux-rime

## Client & Server

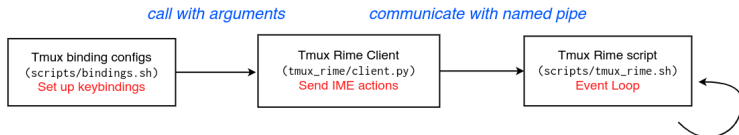
- Tmux-rime client
  - Send IME commands
  - e.g., key, delete
- Tmux-rime server
  - Recieve commands from the client
  - Call corresponding Rime functions
- Communicate each other via *socket*



# Tmux-rime

## keybindings & tmux

- Tmux binding script
  - Call the client script with different arguments
- Tmux-rime client
  - Arguments parsing
  - Send tmux commands via named pipe
- Tmux-rime script
  - An event loop
  - Responsible for status updating and text inserting



# Screenshot

```
~ >>> 你好 |  
  
尸` ㄥ一卩` | 1. 世界 2. 视界 3. 事界 4. 是 5. 事  
1. fish 2. [rime] [gentoo] 11:07
```

# Demo

# Todo

## IME functions

- ~~Preedit chars deleting~~
- ~~Raw input committing~~
- Candidate selection
- Schema selection

## Customization

- Custom plugin options
  - Use tmux user options (prefixed with @) to define variables
- Custom key mappings
  - Define which keys need to be bound in tmux

# Todo

## Misc

- Write tests
- Write documentation
- Set up plugin installation process