

# WAYLAND INPUT METHOD

## WRAP UP



DorotaC.eu



Eden Disorder by epoque



Eden Disorder by epoqe

我在书

wo zai shu

1.我在书 2.我 3.我在 4.我再 5.喔



你好







- popups
- atomic edits
- many hints
- graphics sync
- text selection
- actions
- synthetic key events



- popups
- atomic edits
- many hints
- graphics sync
- text selection
- actions
- synthetic key events



- popups
- atomic edits
- many hints
- graphics sync
- text selection
- actions
- synthetic key events

`zwp_text_input_v3`

`zwp_input_method_v2`

`wl_virtual_keyboard_v1`

## BROKEN

- sync
- delete chars

## HOBBLED

- popups
- type to search
- Korean-style switching
- actions
- surface sync
- reacting to keyboard

## MISSING

- text selection
- text field ID
- dedicated panel
- copy/paste actions



nlnet  
FOUNDATION

CC-BY-2.0

Sofía Salom from Rosario City Rokers, Argentina

**- delete\_surrounding\_text**

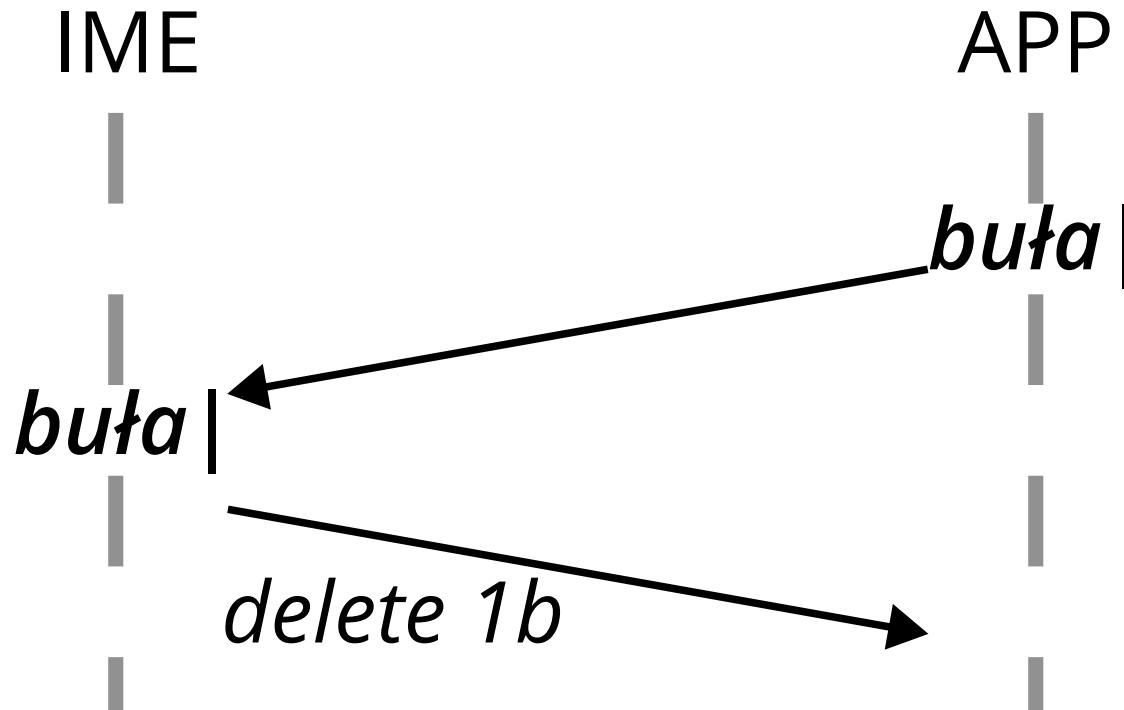
## **- delete\_surrounding\_text**

Notify when the text around the current cursor position should be deleted.

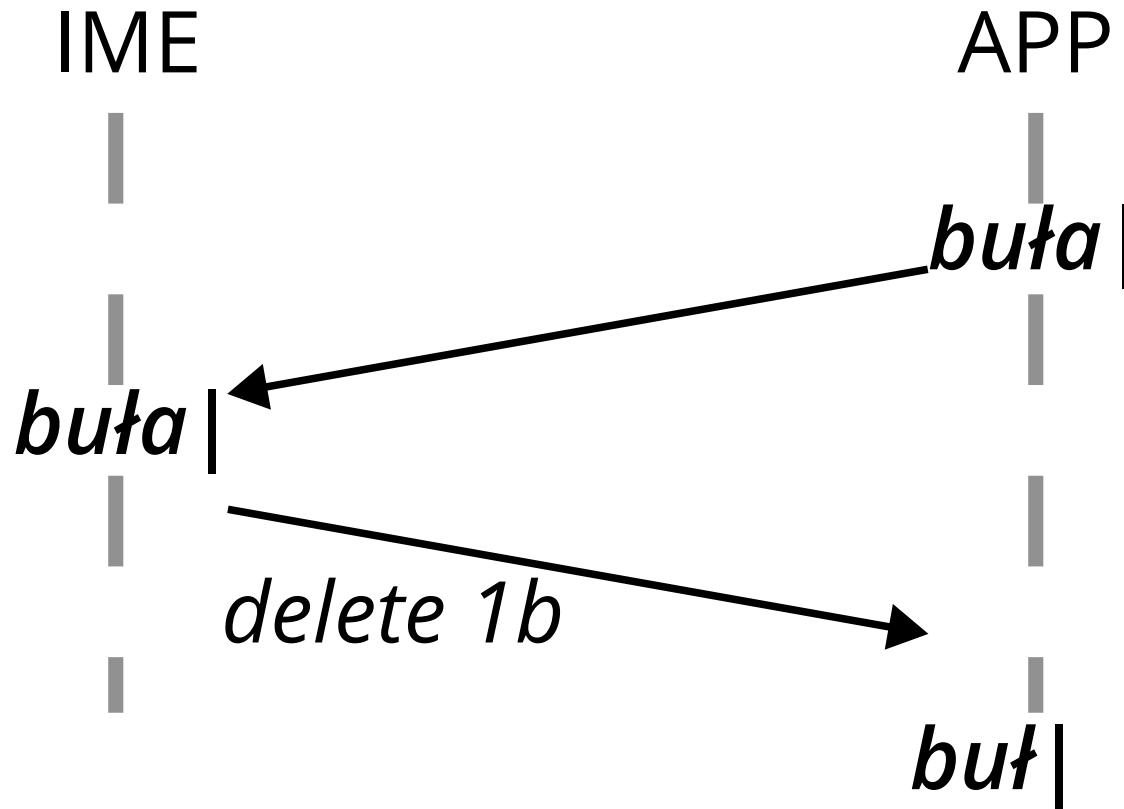
Before\_length and after\_length are the number of bytes before and after the current cursor index (excluding the selection) to delete.

```
<arg name="before_length" type="uint"/>  
<arg name="after_length" type="uint"/>
```

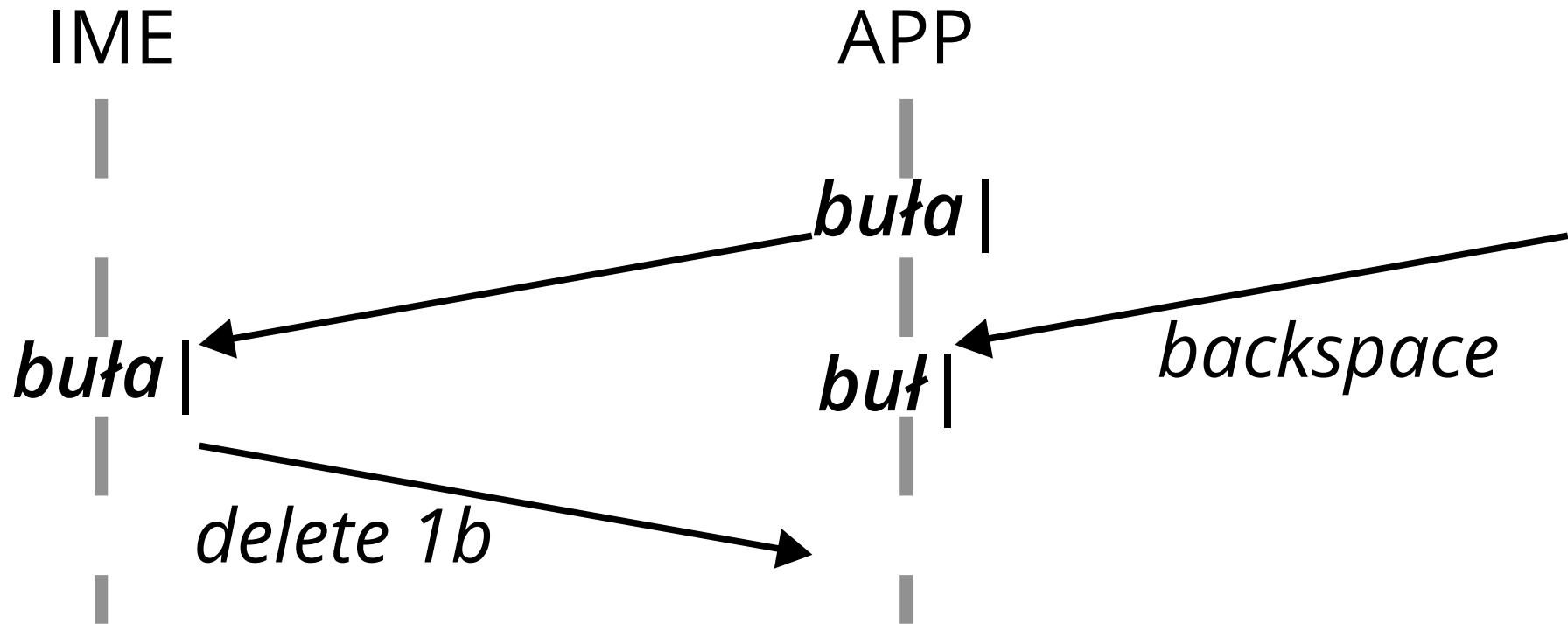
## - delete\_surrounding\_text



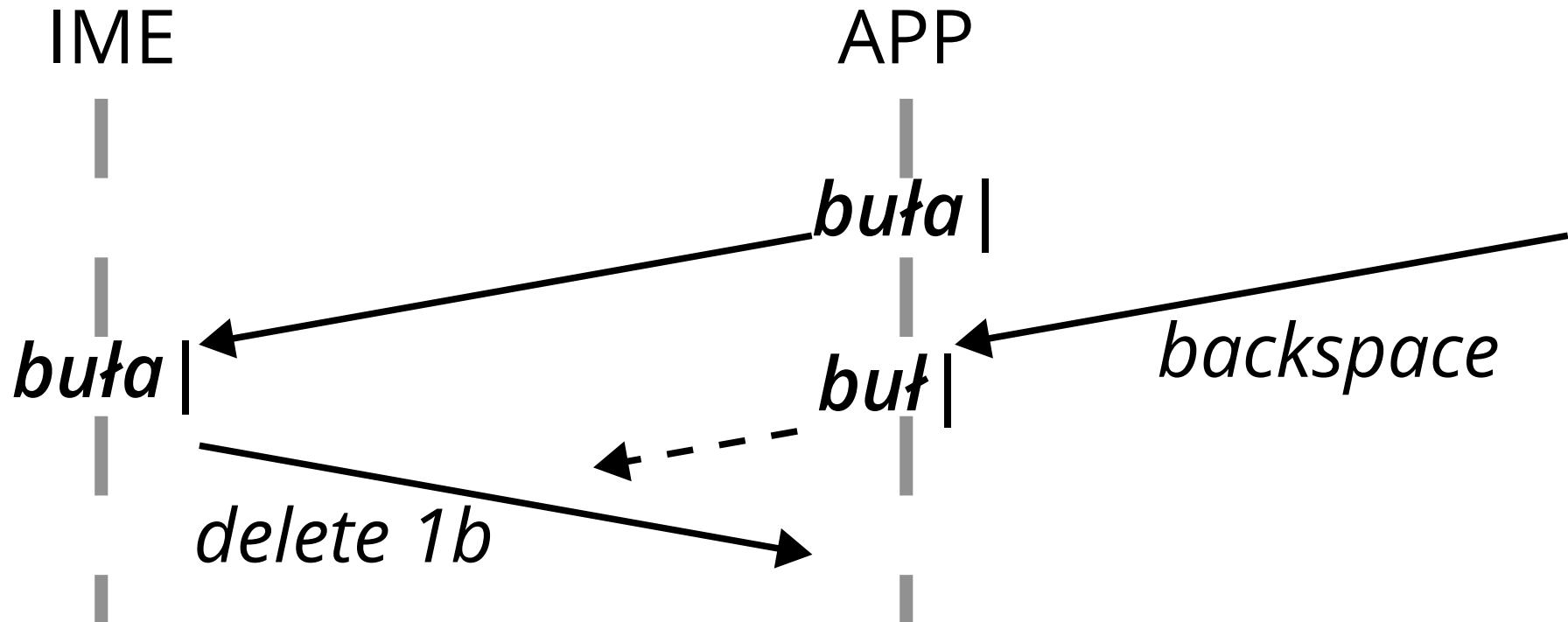
## - delete\_surrounding\_text



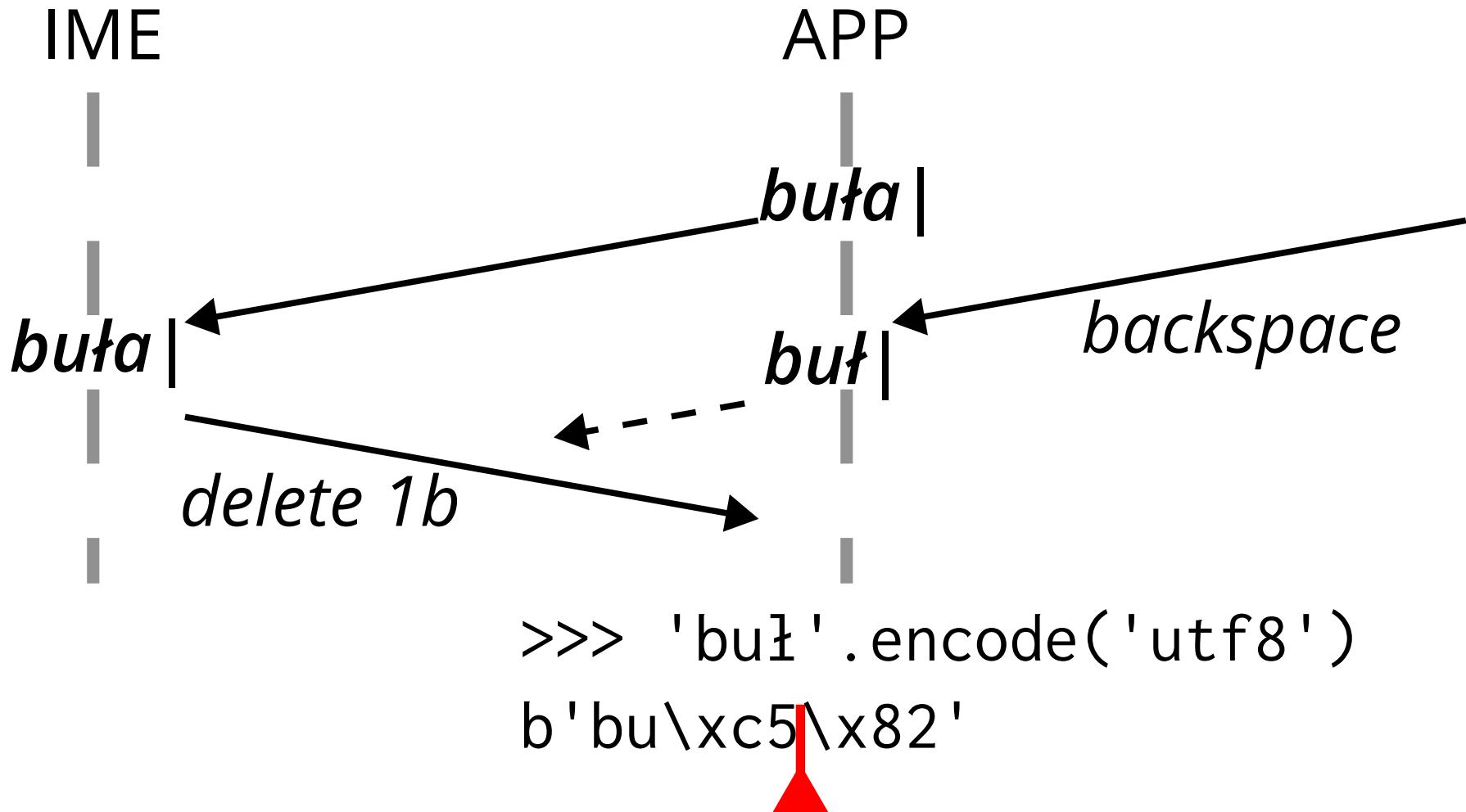
## - delete\_surrounding\_text



## - delete\_surrounding\_text



## - delete\_surrounding\_text



- delete\_surrounding\_text

- `delete_surrounding_text`

- **sync fails on lags**

- `delete_surrounding_text`
- **sync fails on lags**

*the best code is no code at all*  
— Jeff Atwood

- delete\_surrounding\_text
- **sync fails on lags** - 3 attempts

```
<protocol name="xx_text_input_unstable_v3">
  <event name="done">
    Serial handling starting version 2:
```

The argument "serial" is ignored.

*the best code is no code at all*  
— Jeff Atwood

- delete\_surrounding\_text
- sync fails on lags - 3 attempts

- delete\_surrounding\_text
- sync fails on lags - 3 attempts
- **candidates popup**

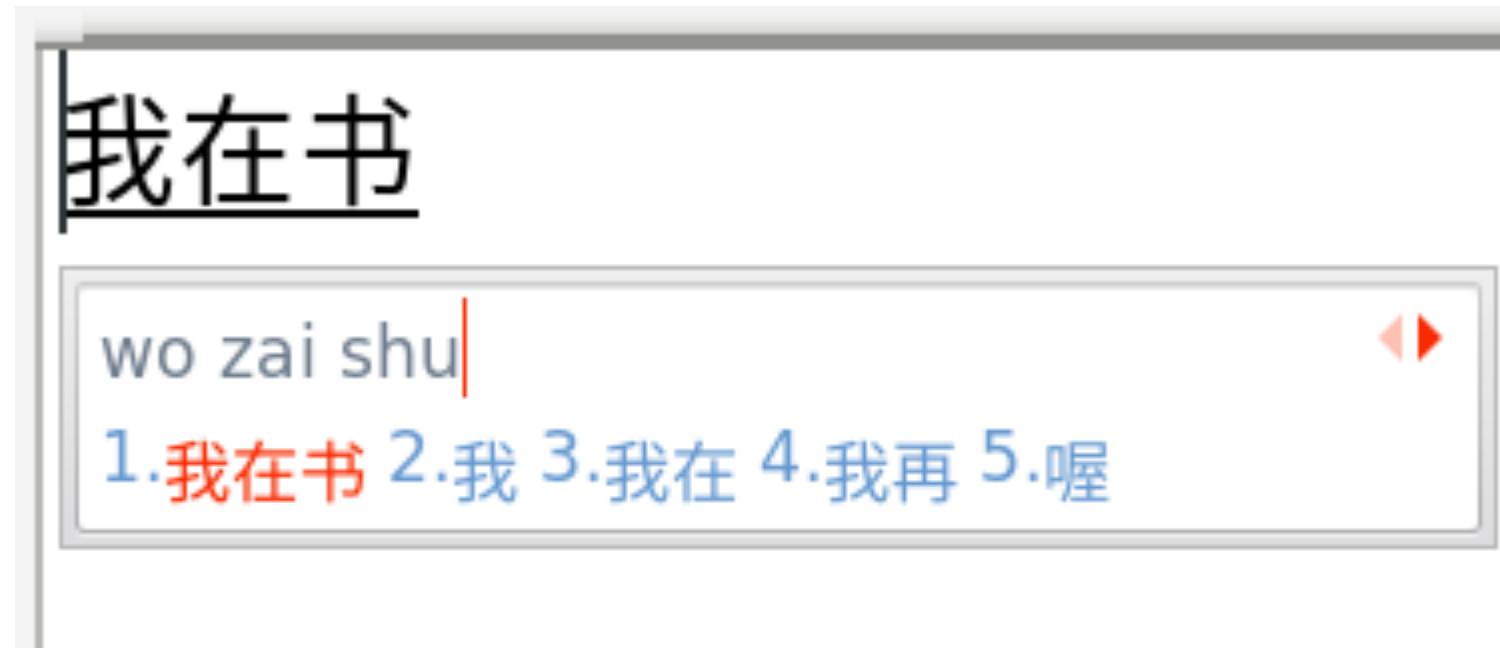


- delete\_surrounding\_text
- sync fails on lags - 3 attempts
- **candidates popup** - 2 attempts

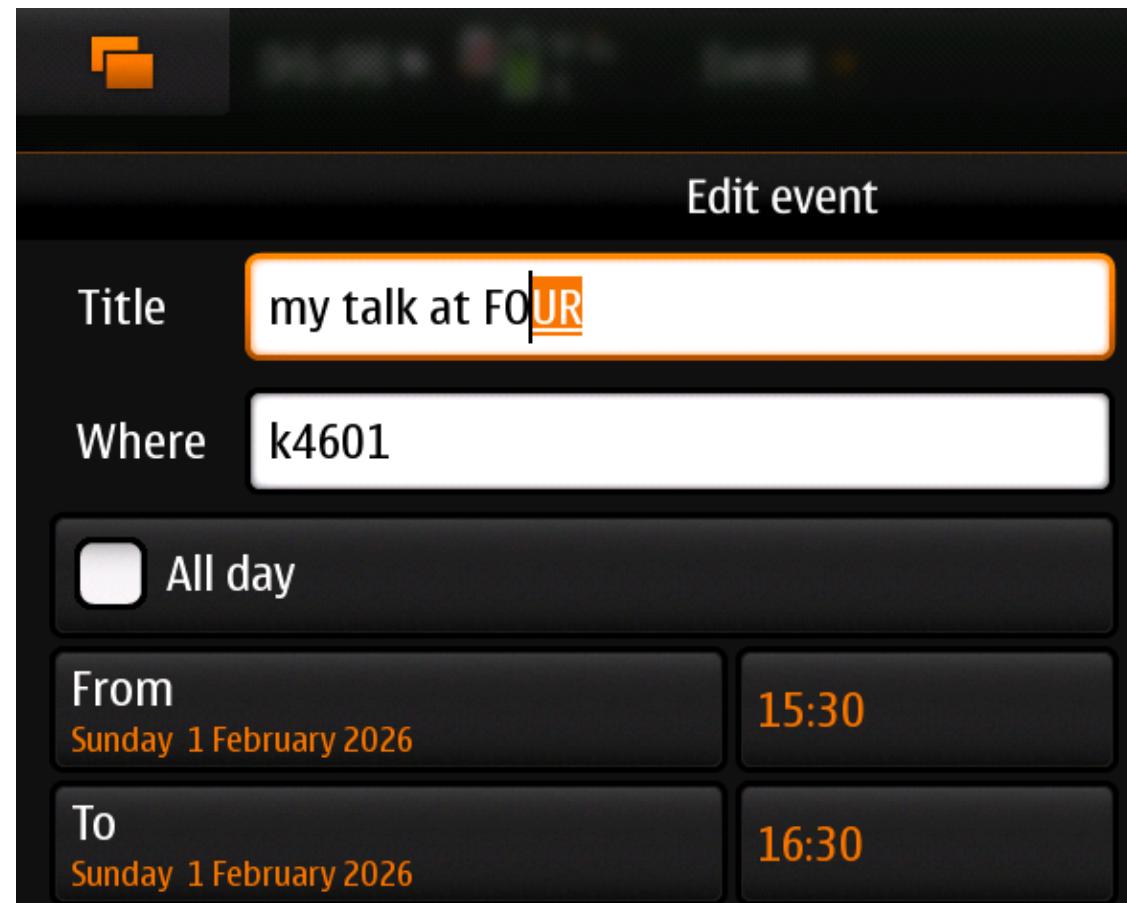


- delete\_surrounding\_text
- sync fails on lags - 3 attempts
- candidates popup - 2 attempts

- delete\_surrounding\_text
- sync fails on lags - 3 attempts
- candidates popup - 2 attempts
- keyboard filtering - 3 attempts**



- delete\_surrounding\_text
- sync fails on lags - 3 attempts
- candidates popup - 2 attempts
- keyboard filtering - 3 attempts
- Korean-style unfocus**



wayland-protocols

# wayland-protocols

*if it works, don't break it*  
— someone wise

# wayland-protocols

 [wayland](#) / [wayland-protocols](#) / Merge requests / !1282

## text-input: update to 3.2

Code



[Open](#) **Carlos Garnacho** requested to merge

 [carlosg/wayland-protocols...](#) into [main](#) Feb 20, 2024

7 open threads

^    v    :

[Add a to-do item](#)

# wayland-protocols

 wayland / wayland-protocols / Merge requests / !1282

## text-input: update to 3.2

Code

 Open

Carlos Garnacho requested to merge  
carlosg/wayland-protocols... into main Feb 20, 2024

7 open threads

^    v    :

Add a to-do item

# wayland-protocols

## experimental

# wayland-protocols

## experimental

- merge after 2 weeks of submission
- limited backwards-compatibility
- remove after inactive for 3 months

# wayland-protocols

## experimental

- merge after 2 weeks of submission
- limited backwards-compatibility
- remove after inactive for 3 months

*3 merged protocols!*

# wayland-protocols

## experimental

1. draft
2. collect feedback
3. implement
4. undraft or repeat
5. demo
6. collect enthusiastic approval
7. ask to merge



wayland / wayland-protocols / Merge requests / !1282

## text-input: update to 3.2

Code



Open **Carlos Garnacho** requested to merge  
carlosg/wayland-protocols... into main Feb 20, 2024

7 open threads

^ v :

Add a to-do item

2018 v3.1, wlroots, GTK

2024 v3.2 proposed

2026

2018

v3.1, wlroots, GTK

2021

chromium

2024

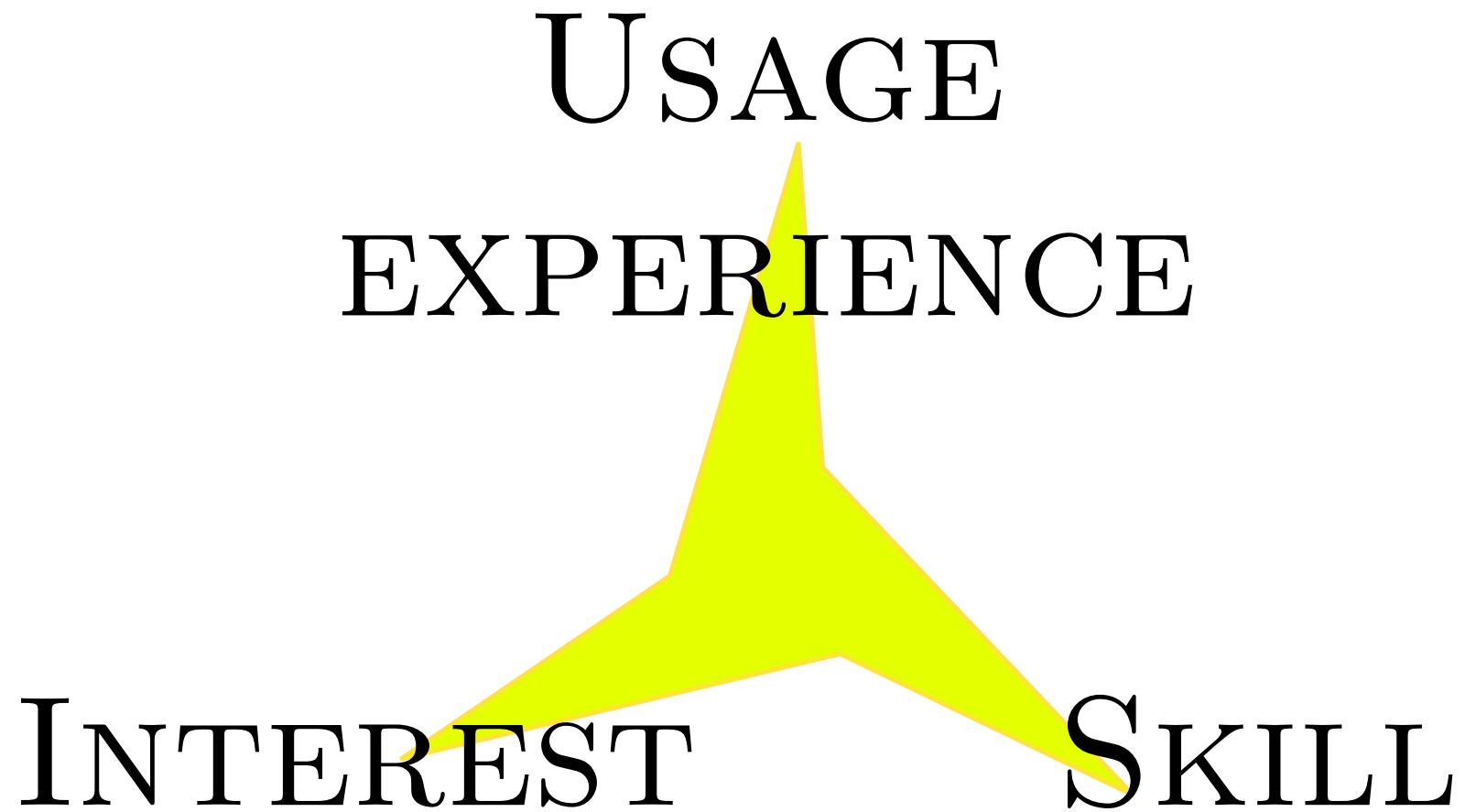
v3.2 proposed

Qt implements v3.1

2025

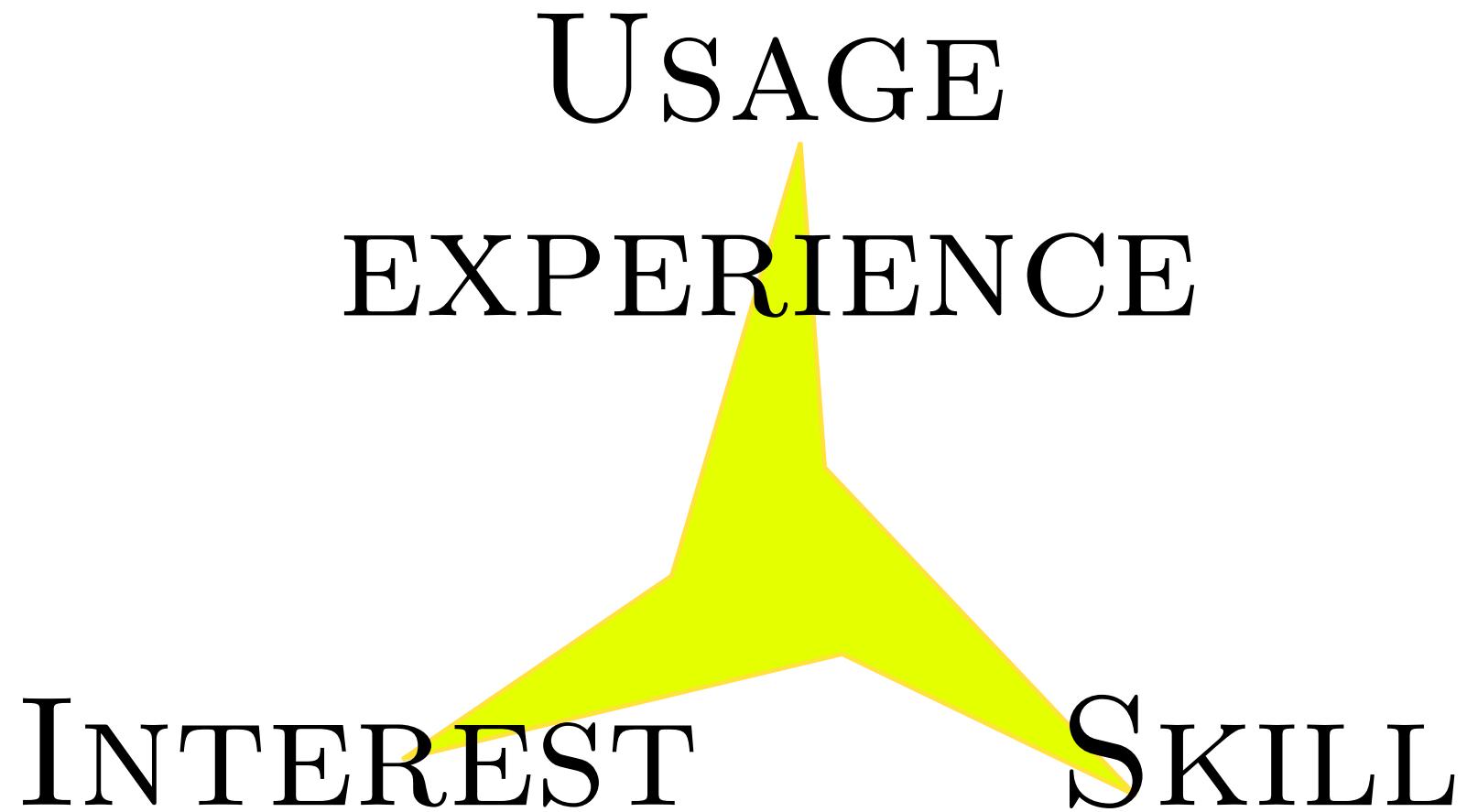
chromium implements v3.1

2026





TEACH  
AT THE  
SAME TIME





INTEREST SKILL

# implementations

# implementations

IME

apps

compositor

wayland-protocols

wayland-rs

# implementations

IME

apps

compositor

wayland-protocols

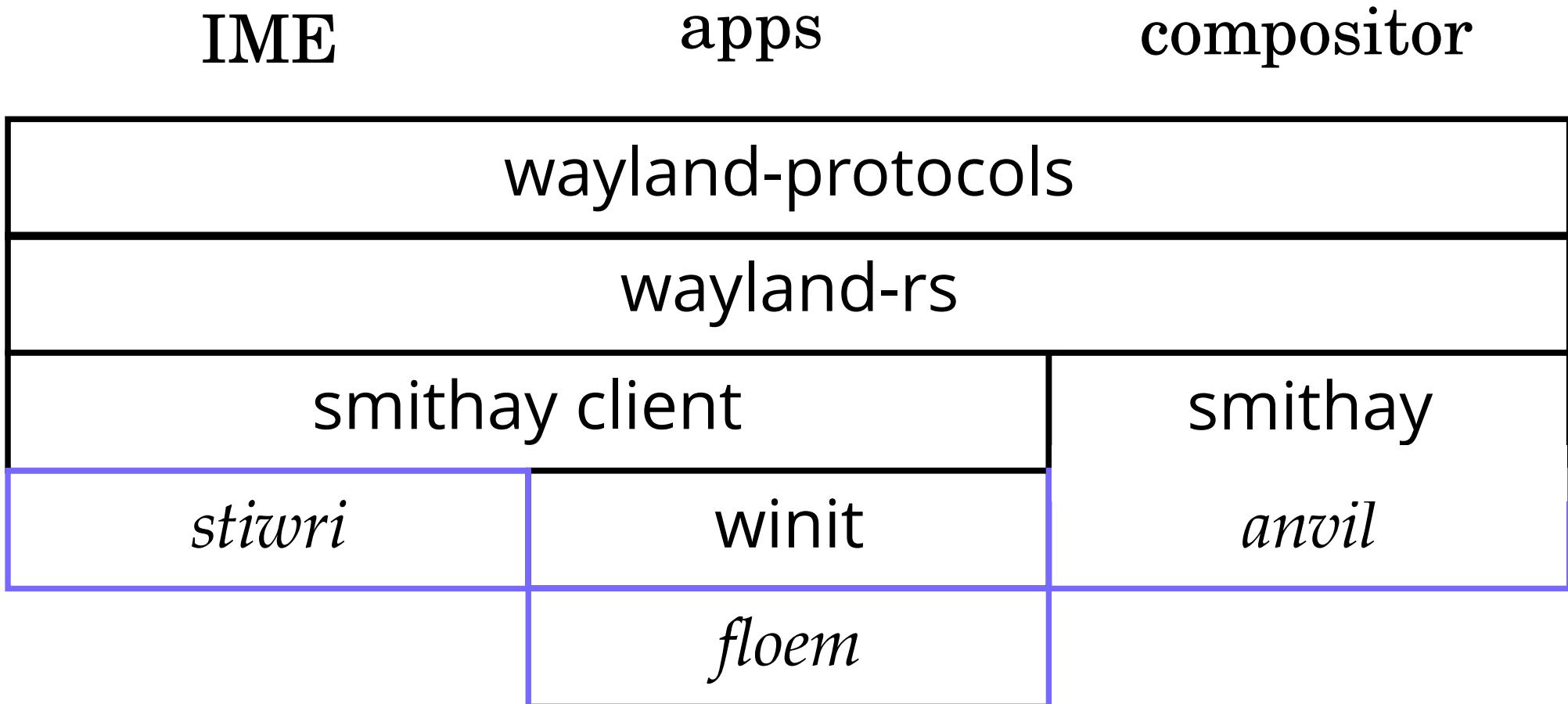
wayland-rs

*stiwri*

*floem*

*anvil*

# implementations





<1 year  
3 xx protocols  
53 changes  
36 upstreamed  
7 issues  
6 projects



<1 year  
3 xx protocols  
53 changes  
36 upstreamed  
7 issues  
6 projects

Not complete enough  
for end-users to try out



Please review & update!

xx-text-input  
xx-input-method  
xx-keyboard-filter  
text-input-v3.2

Not complete enough  
for end-users to try out

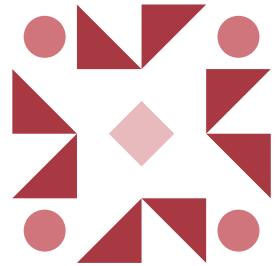


IME  
mobile  
compositor  
libraries

fcitx  
stevia  
wlroots  
smithay  
qt  
gtk  
slint  
winit



CC-BY 2.0 Hardeep Singh from Vancouver, Canada



DorotaC.eu

<https://fosstodon.org/@dcz>