

# WAYLAND INPUT METHOD

WRAP UP



DorotaC.eu



## 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



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zwp\_text\_input\_v3

zwp\_input\_method\_v2

wl\_virtual\_keyboard\_v1

## BROKEN

- sync
- delete chars

## HOBBLLED

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

## MISSING

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





**ninnet**  
FOUNDATION

**- delete\_surrounding\_text**



## - delete\_surrounding\_text

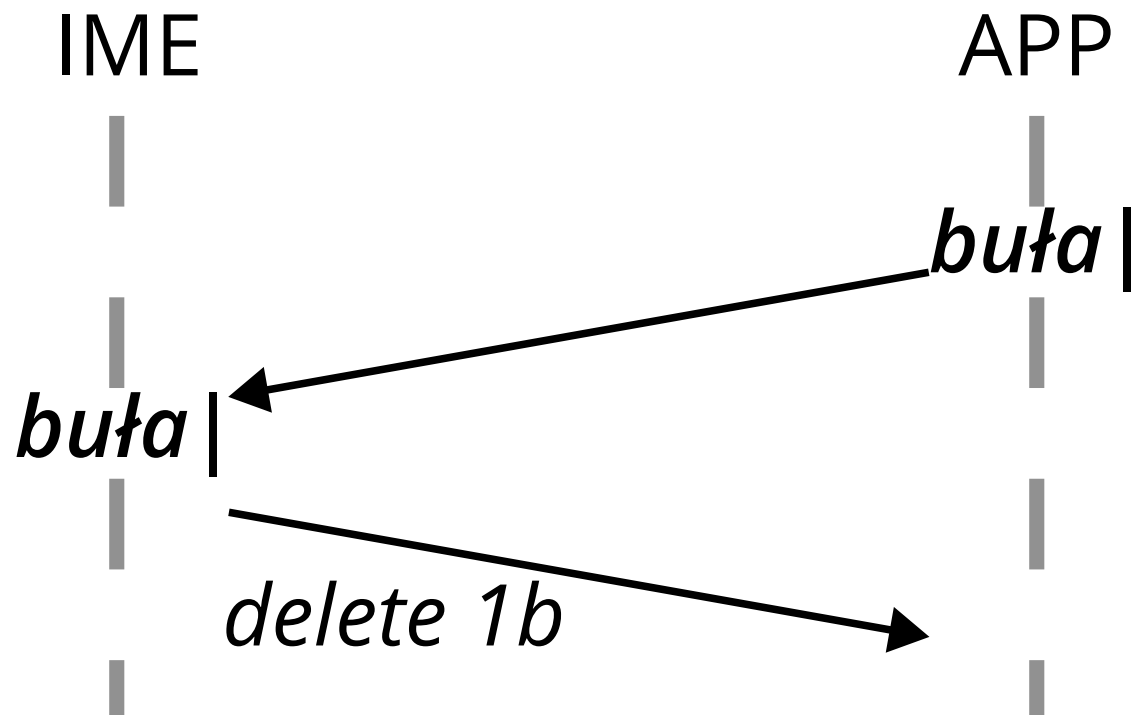
Notify when the text around the current cursor position should be deleted.

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

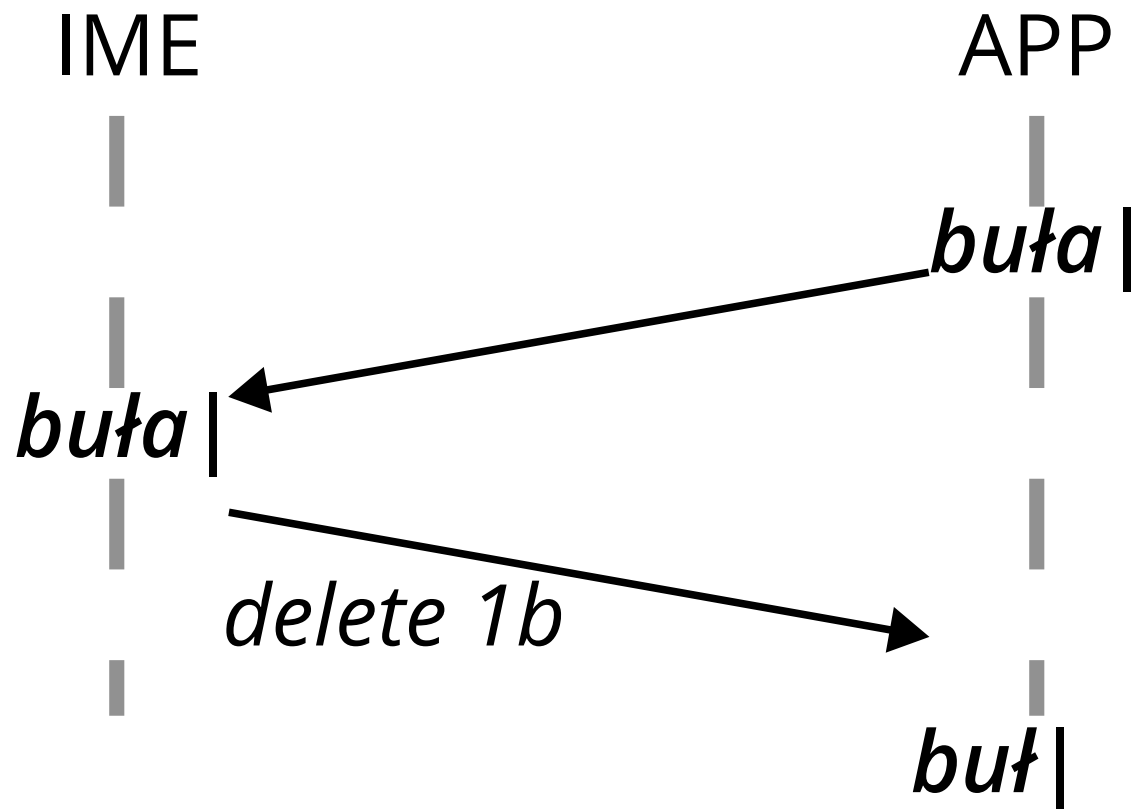
```
<arg name="before_length" type="uint"/>
```

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

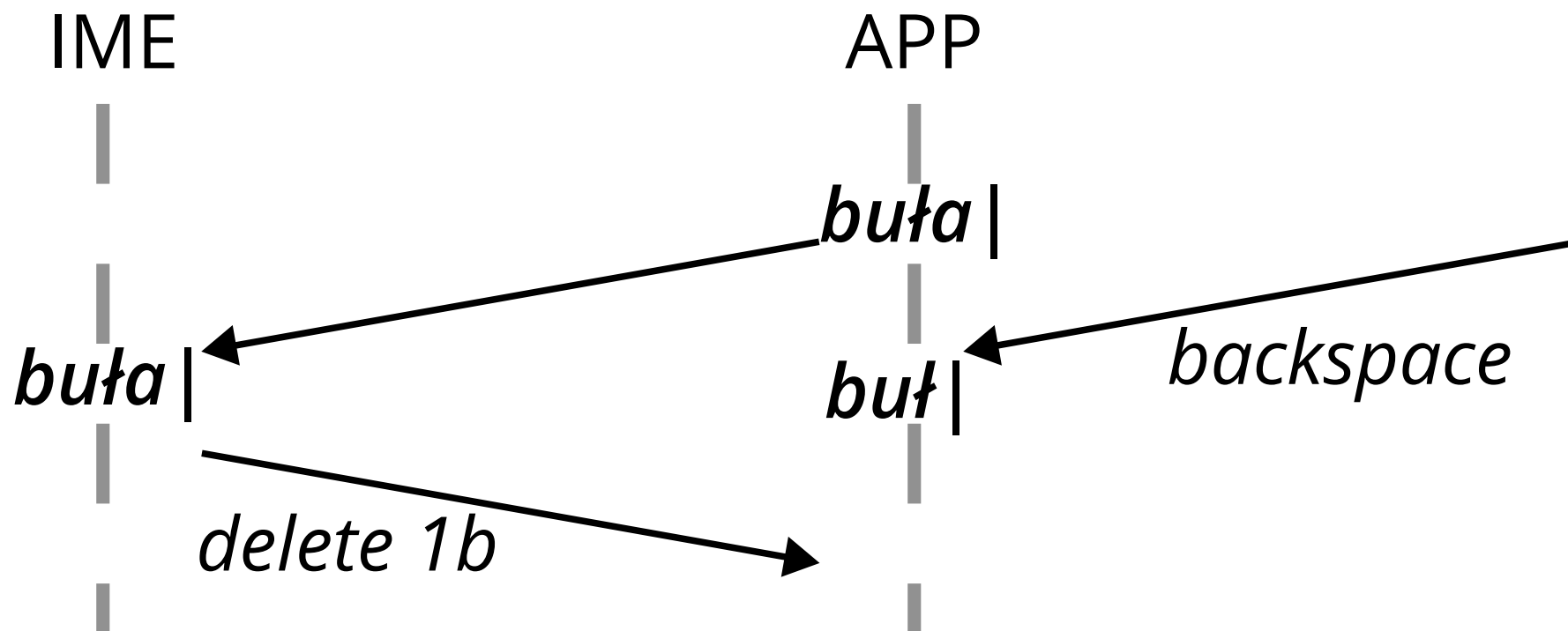
## - delete\_surrounding\_text



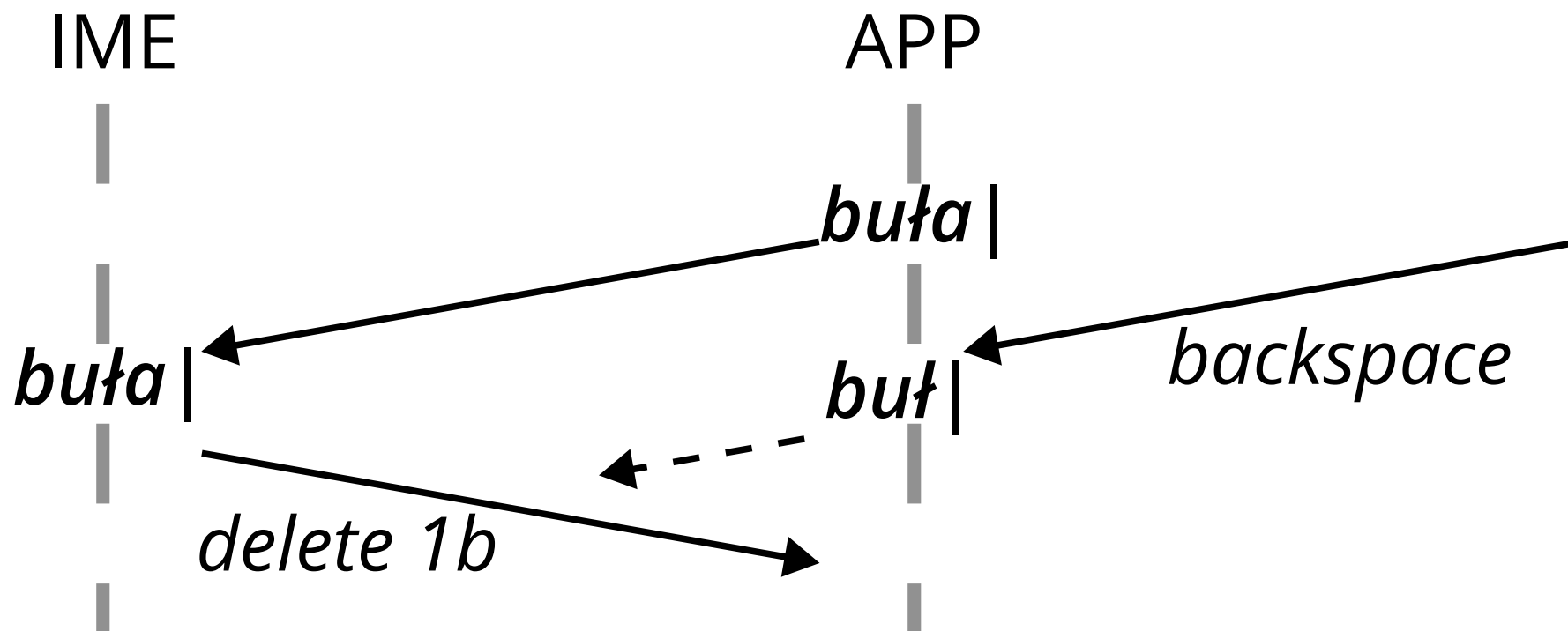
## - delete\_surrounding\_text



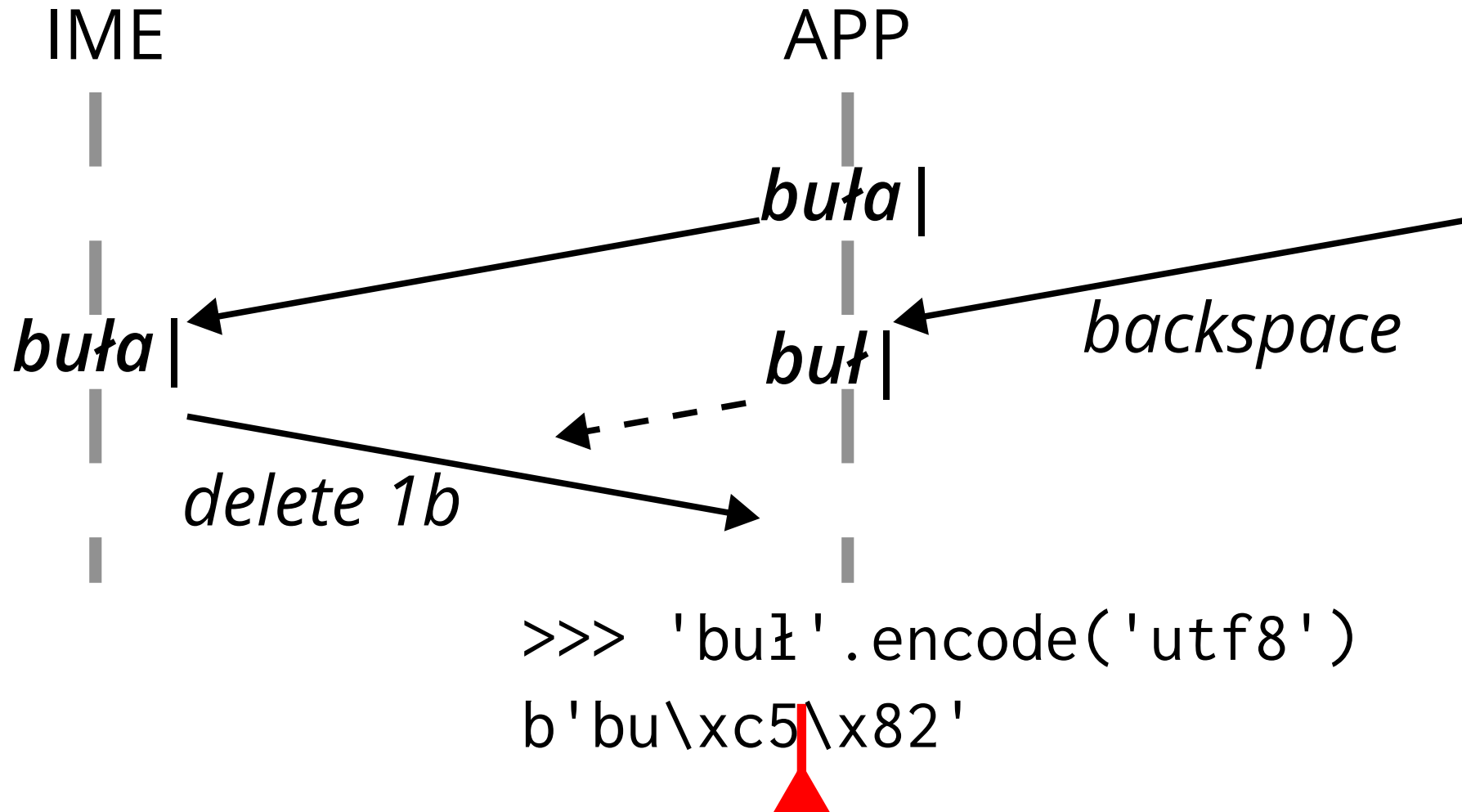
## - delete\_surrounding\_text



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- **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

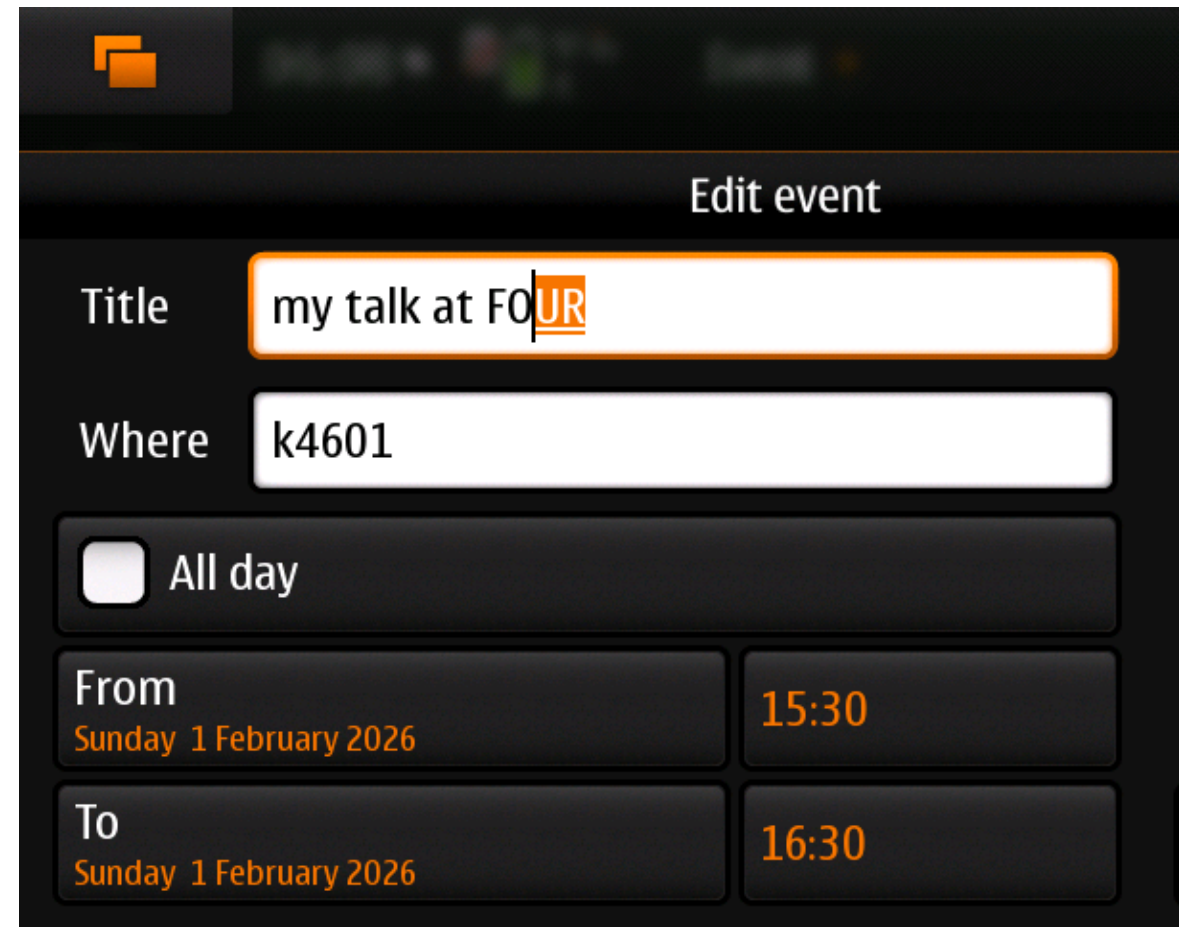
- delete\_surrounding\_text
- sync fails on lags - 3 attempts
- candidates popup - 2 attempts
- **keyboard filtering** - 3 attempts

我在书

wo zai shu|

1.我在书 2.我 3.我在 4.我再 5.喔

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



The screenshot shows a dark-themed 'Edit event' form. At the top left is an orange icon of two overlapping squares. The title 'Edit event' is in white text. The 'Title' field contains 'my talk at FO' followed by 'UR' which is underlined in orange. The 'Where' field contains 'k4601'. There is an 'All day' checkbox which is unchecked. The 'From' field shows 'Sunday 1 February 2026' and the time '15:30' in orange. The 'To' field shows 'Sunday 1 February 2026' and the time '16:30' in orange.

Edit event

Title my talk at FOUR

Where k4601

☐ All day

From Sunday 1 February 2026 15:30

To Sunday 1 February 2026 16:30




wayland-protocols

wayland-protocols



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

# wayland-protocols

 wayland / wayland-protocols / Merge requests / !282

## text-input: update to 3.2

Code


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

7 open threads





Add a to-do item

# wayland-protocols

 wayland / wayland-protocols / Merge requests / !282

## text-input: update to 3.2

Code

 Open **Carlos Garnacho** requested to merge  
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7 open threads



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 / !282

---

## text-input: update to 3.2

Code

 Open **Carlos Garnacho** requested to merge  
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7 open threads



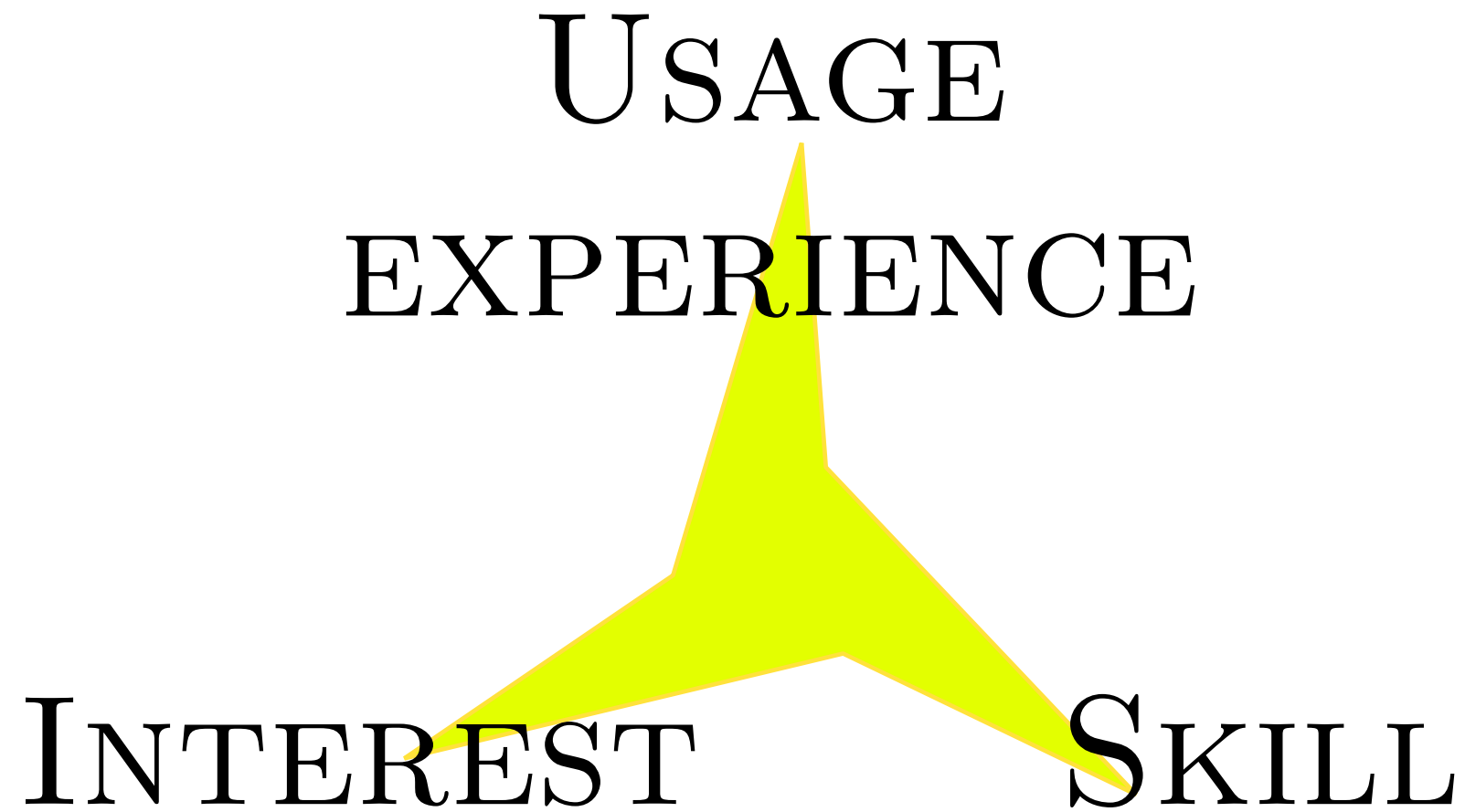
Add a to-do item

2018 | v3.1, wlroots, GTK

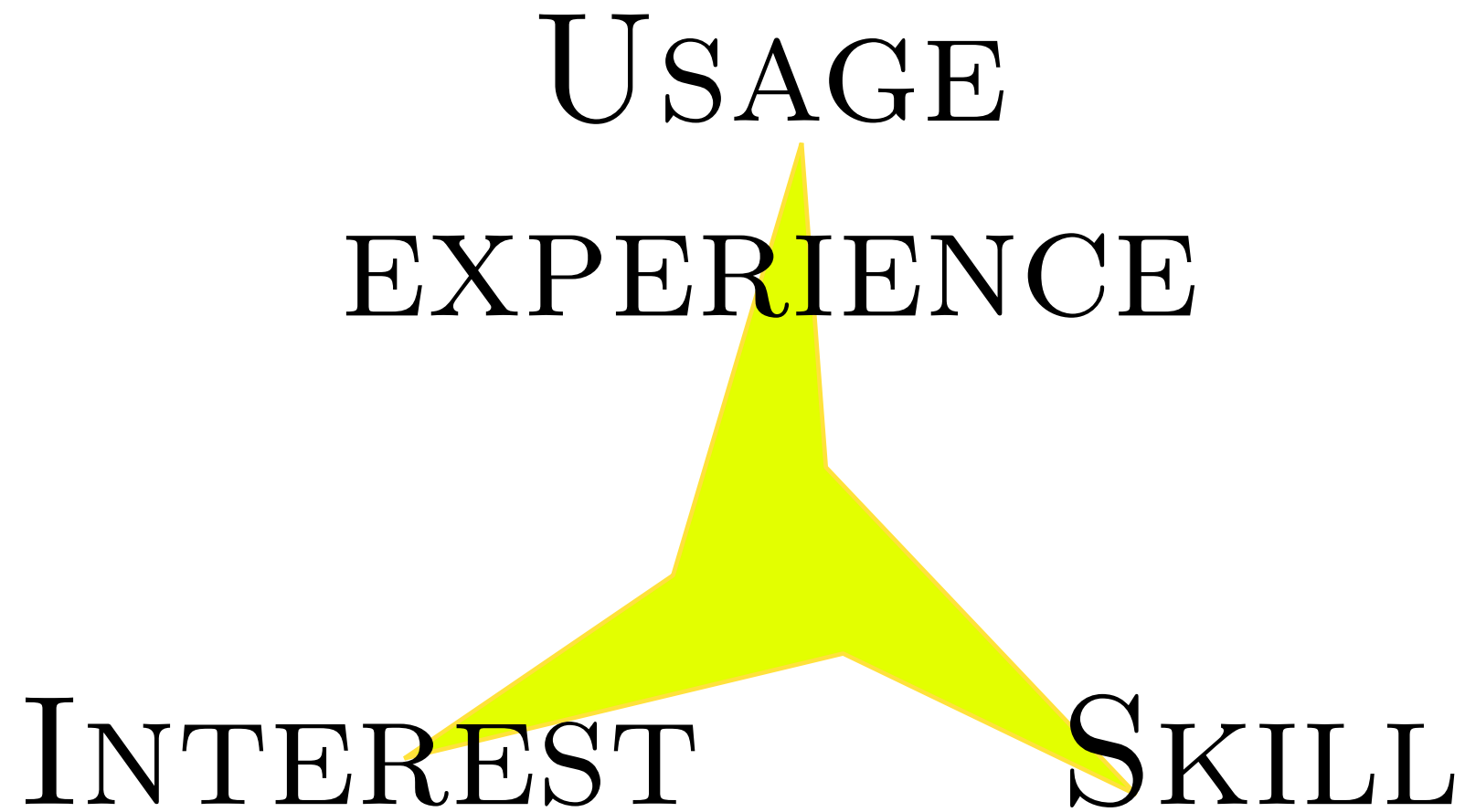
2024 | v3.2 proposed

2026

2018	v3.1, wlroots, GTK
2021	chromium
2024	v3.2 proposed Qt implements v3.1
2025	chromium implements v3.1
2026	



MESSAGE  
AT THE  
SAME TIME





INTEREST

SKILL

implementations



# implementations

IME

apps

compositor

wayland-protocols
wayland-rs

# implementations

IME

apps

compositor

wayland-protocols
wayland-rs

<i>stiwri</i>	<i>floem</i>	<i>anvil</i>
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# implementations

IME

apps

compositor

wayland-protocols		
wayland-rs		
smithay client		smithay
<i>stiwri</i>	winit	<i>anvil</i>
	<i>floem</i>	



<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

fcitx

mobile

stevia

compositor

wlroots  
smithay

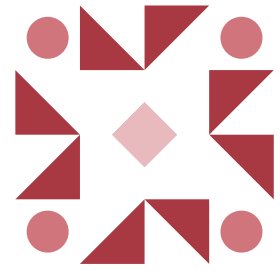
libraries

qt  
gtk  
slint  
winit



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DorotaC.eu

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