

IBus Wayland Development

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Today's Topics

1. IBus Life
2. Development in Fedora
3. Upgrade Fedora version
4. GNOME Wayland
5. KDE(Plasma) Wayland
6. Sway, Labwc, Hyprland etc
7. IBus Footsteps
8. IBus Plans

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IBus Life

- Maintainer of IBus core and IBus Anthy
- I've worked in Fedora distribution to follow GNOME schedule
- The stable & beta Fedora is provided with ISO Live image
  - https://fedoraproject.org/
  - Fedora workstation, Fedora KDE Plasma, Fedora server, Fedora CoreOS(container-based)
  - https://fedorapeople.org/groups/schedule/f-44/f-44-docs-tasks.html

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Development in Fedora

- dnf install rpm-build
- dnf download --source ibus
- rpm -ivh ibus-*.fc43.src.rpm
- cd $HOME/rpmbuild/SPECS
- dnf builddep ./ibus.spec
- rpmbuild -bb --noclean --define “optflags `rpm --eval %optflags` -g -O0” ibus.spec

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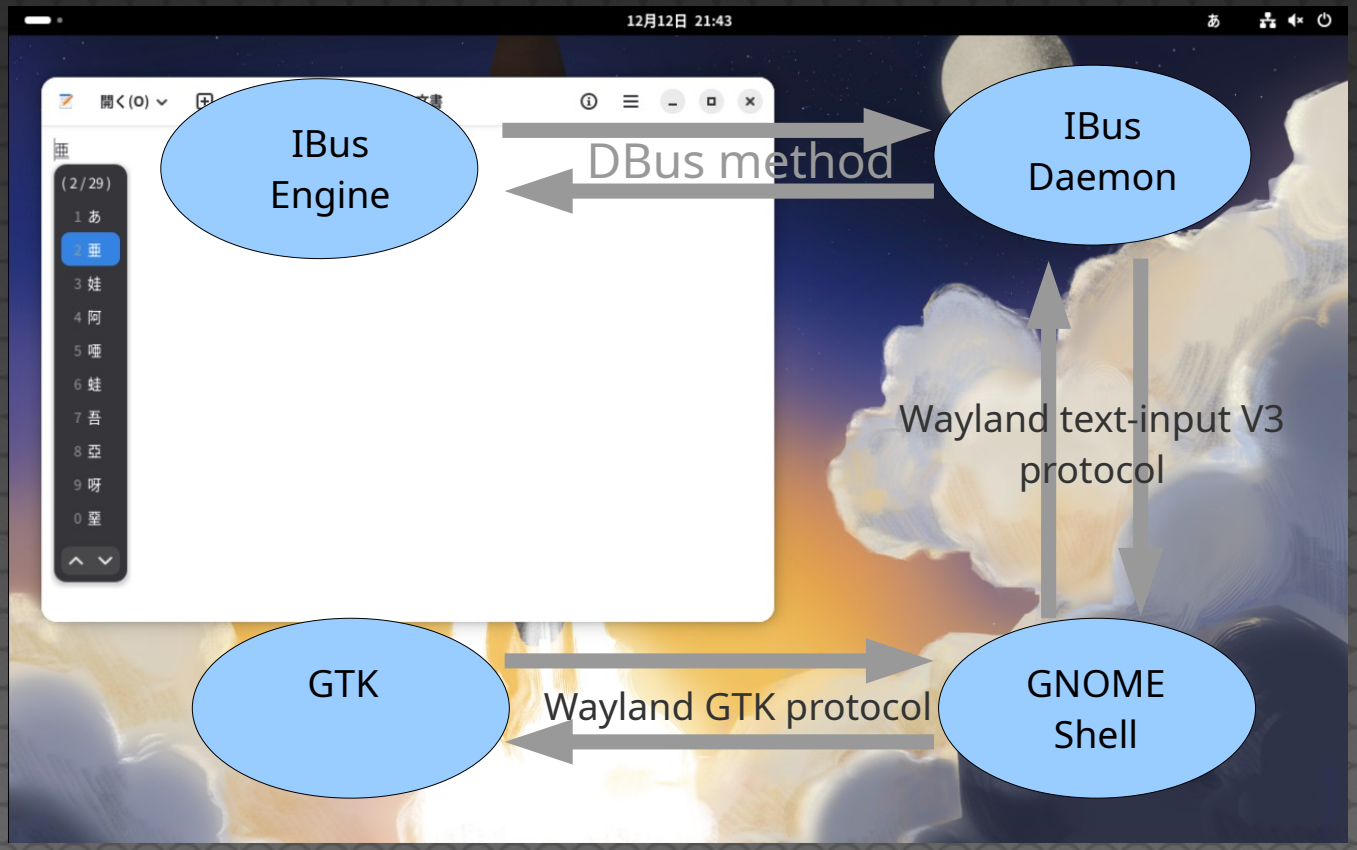
Upgrade Fedora version

- sudo dnf --refresh upgrade
- dnf system-upgrade download --releasever=43
- dnf offline reboot

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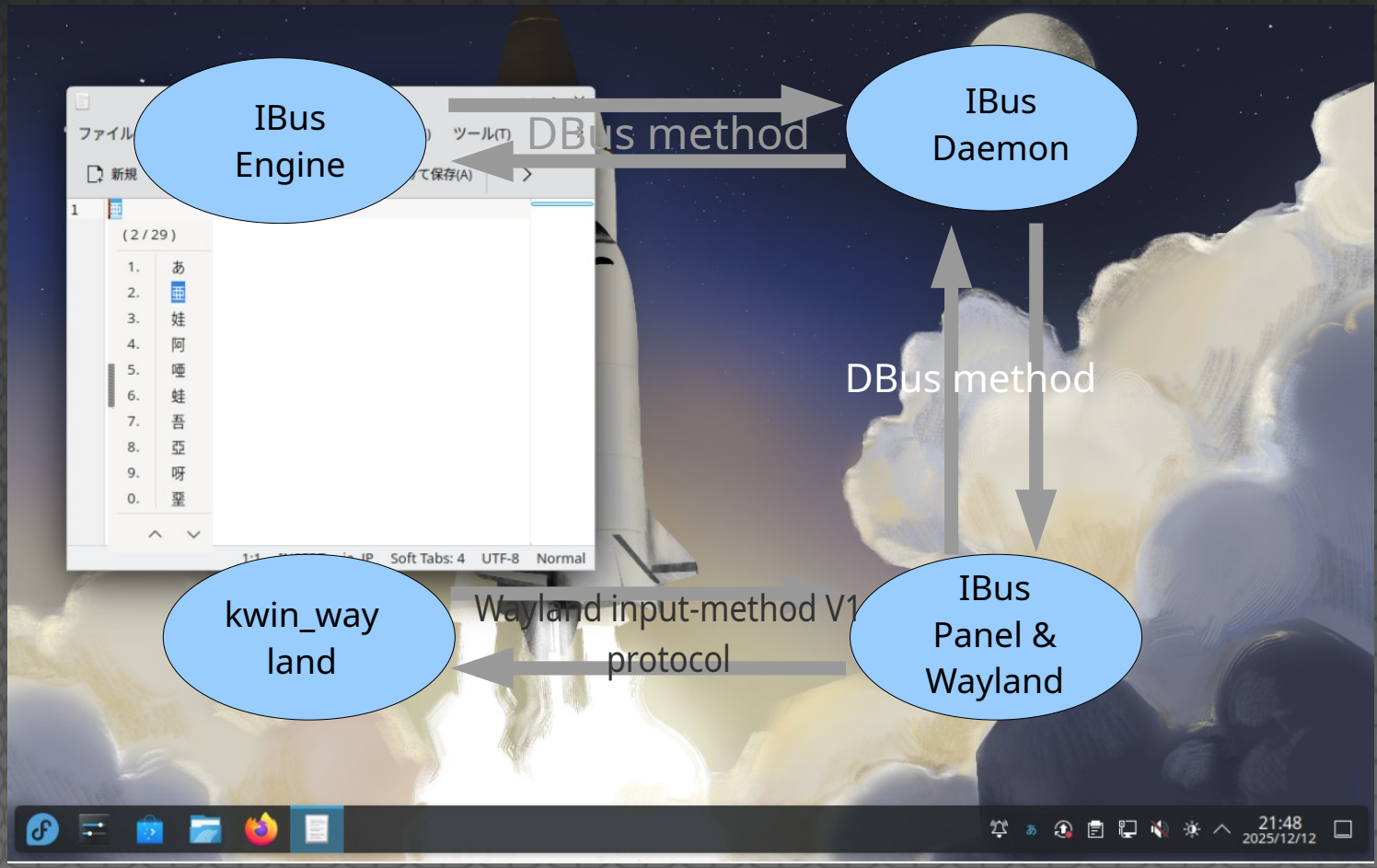
GNOME Wayland

- ibus-daemon and gnome-shell communicate via Wayland text-input Version 3 protocol



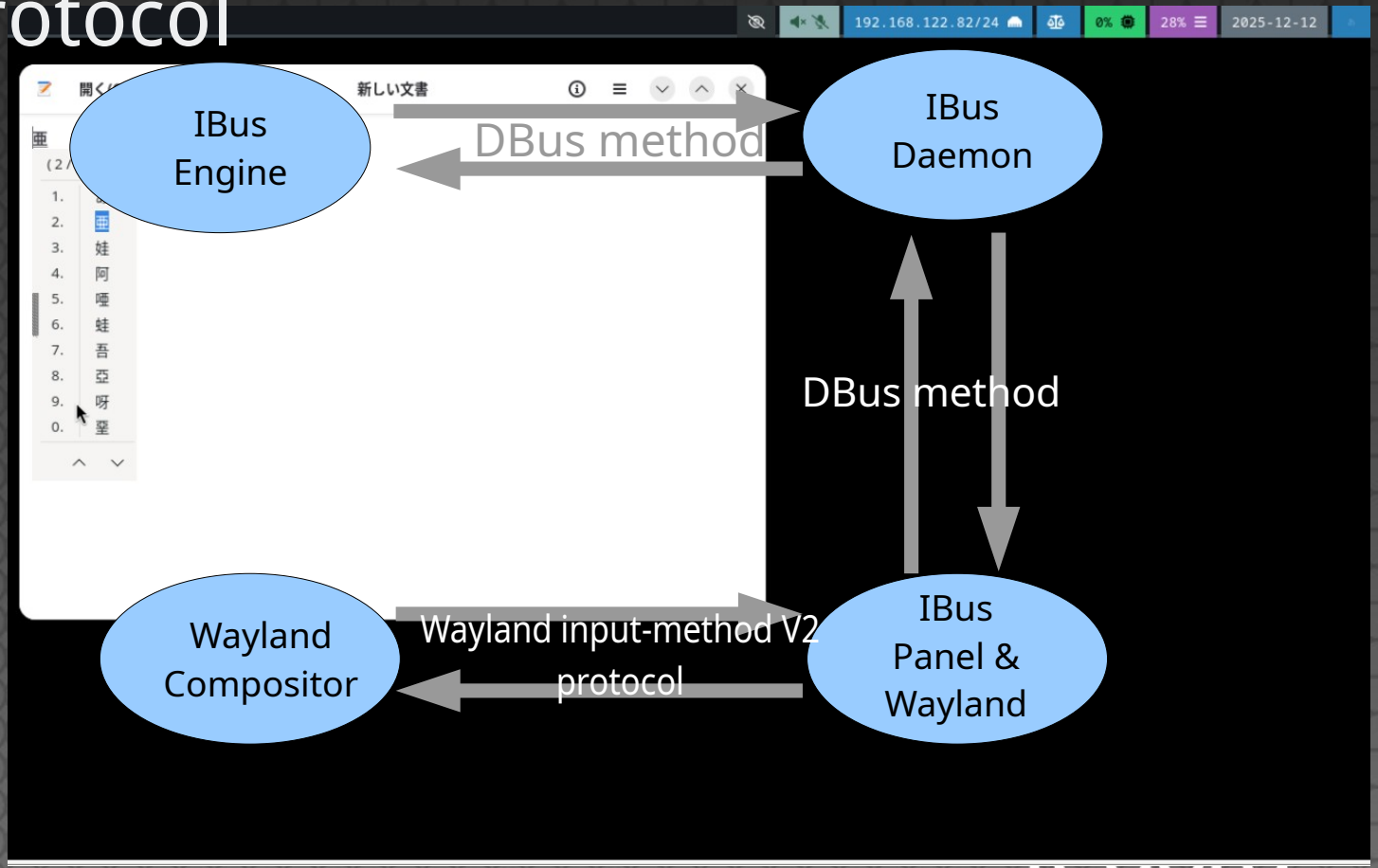
KDE(Plasma) Wayland

- IBus and KDE communicate via Wayland input-method Version 1 protocol



Sway, Labwc, Hyprland

- IBus and Wayland desktop session communicate via Wayland input-method Version 2 protocol



IBus Footsteps

- Several desktop session configurations
  - https://github.com/ibus/ibus/wiki/WaylandDesktop
- `ibus start` command runs IBus processes
- Wayland input-method V1 and text-input V1 support the IM preedit color
- Convert RGB values to semantic enum values
  - https://github.com/ibus/ibus/wiki/Wayland-Colors

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IBus Plans

- Wayland input-method V3 and text-input V3.2 will bring back the preedit color
- New IBus APIs to switch the preedit semantic values
  - ibus_input_context_set_preedit_format() and ibus_panel_service_set_preedit_format()

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Questions?

Contact:

https://github.com/ibus/ibus/issues
https://bugzilla.redhat.com/
https://discussion.fedoraproject.org/
#ibus:matrix.org

#i18n:fedoraproject.org

http://ibus.github.io/files/guadec/fujiwara-fy25.pdf