

Fedora i18n

Flock 2017

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i18n/l10n/g11n Track

• Fedora i18n (this session)

• Transtats (3:30pm)

• Fedora G11N (4pm)

About us

- Jens Petersen
 - i18n Software Engineering Manager, Red Hat
 - Fedora i18n, Haskell, Packager Sponsor, Fedora Workstation WG
- Parag Nemade
 - Senior Software Engineer, i18n Software Engineering, RH
- Pravin Satpute
 - G11n Quality Engineering Manager, Red Hat

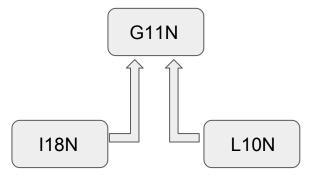
I18n Agenda

- F24-F27 Review
- Langpacks auto-installation
- Input methods
- Fonts
- Transtats
- Modularity
- Fedora Editions
- QA and test automation
- Community involvement/events
- Brand

Internationalization:

- helps to make your software work uniformly across multiple regions.
- includes adding i18n support in your code which allows UI strings to be translated (I10n).
- helps to set user locale settings such as date, number, currency, sorting, paper size.
- allows users to display and input text in their own preferred language.

Globalization, Internationalization, and Localization



I18N is a part of G11N

Recent Fedora i18n Changes

F24 i18n Changes

- Langpacks Installation With RPM Weak Dependencies
- Glibc locale subpackaging

F25 i18n Changes

- IBus Emoji Typing
- Unicode 9.0
- ibus-typing-booster multilingual support

ibus Typing Booster

Suggestive text input

https://mike-fabian.github.io/ibus-typing-booster/

F26 i18n Changes

- <u>libpinyin 2.0</u>
- Fontconfig cache directory change

libpinyin-1.3

	QEMU
Machine '	View
Activities	🗒 Text Editor 👻 Thu 13:13
Open 👻	Untitled Document 1
如果我随便辩	俞入呢 ru guo wo sui bian shu ru ne l
]	1 如果我随便输入呢 2 如果 3 如 4 入 5 儒 < >



F27 i18n Changes

- <u>Chinese Serif Fonts</u>
- libpinyin 2.1

- Flatpak ibus support and fontconfig caches
- Emoji color rendering

Chinese Serif font

Chinese Serif Fonts: 中文宋体

Chinese Sans Fonts:



Future features and discussion

How to install Langpacks for users?

After installing Workstation Live users want to have langpacks for Libreoffice etc automatically installed.

Where is do this:

- A. Initial-setup
- B. Gnome-initial-setup
- C. Gnome Control Center

??

Current Fedora IMEs

- Japanese: ibus-kkc
- Simplified Chinese: ibus-libpinyin
- Traditional Chinese: ibus-libzhuyin
- Other Chinese: ibus-table
- Korean: ibus-hangul
- Other: ibus-m17n

Non-IME languages just use xkeyboard-config

ibus Input Method framework

"Intelligent input bus"

https://github.com/ibus

Input methods future

- Input method engines as a logical level above keyboard layouts
- Wayland input method protocol
- Flatpak ibus portal
- Improving the IM landscape

Emoji rendering and input

- Fixes to cairo and pango to render color emoji correctly
- Input of emoji with gtk, ibus, ibus-typing-booster

Glibc locales

- Mike Fabian working now along with Rafal Luzynski on upstream glibc locales maintenance
- Plans to sync gradually CLDR locale data to glibc

Flatpak i18n

- ibus support ibus portal
- Fontconfig cache path issue

Fonts review

- Default Fonts
- Noto fonts
- Liberation fonts
- Fonts coverage
- Fonts quality

Transtats

After this session Sundeep Anand will be presenting a talk on Transtats, a webapp for tracking translation status for packages in Fedora, upstream, etc.

- <u>http://transtats.org/</u>
- Hope to deploy to Fedora infrastructure during F27 cycle

Modularity and i18n

What does modularity mean for Fedora i18n?

- Fonts
- Input methods
- Runtime
- ?

Fedora Atomic and Atomic Workstation

- Locale handling
- Language support and langpacks

Anaconda keyboard selection

Quite hard to find US layout with non-US layout set

QE and Test automation

- Have to seen broken system due to i18n?
 - Things break at system and also at application.
- Testing
 - Fonts
 - Rendering
 - Input method
 - I18n tools
- Test days has limitations
 - Not new test cases but change proposals are many.
 - Less participation
- Automation

Fedora i18n Brand and Contributors

• Fedora i18n vs Fedora g11n

- More upstream
- More contributors?

Long term ideas

- Dynamic locale switching
- Separation of translations (workflow and packaging)
- Multilingual configuration (fallback, fonts)

Fedora i18n contacts

- #fedora-g11n
- Fedora i18n mailing list
- <u>https://fedoraproject.org/wiki/I18N</u>
- Biweekly meetings in #fedora-meeting @ Wed 00:00 UTC
- Bugzilla i18n keyword
- <u>https://pagure.io/i18n/issues</u>
- <u>petersen@redhat.com</u>, <u>pnemade@redhat.com</u>, <u>psatpute@redhat.com</u>

Thank you!