



i18n in Debian

A look at projects and tools

<http://people.debian.org/~jfs/debconf/i18n/>

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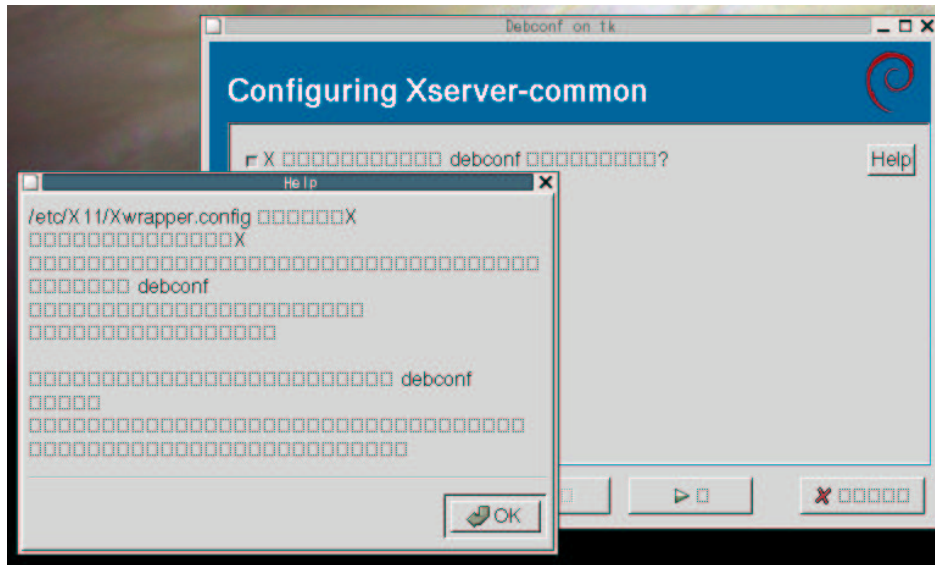
i18n projects in Debian

Goals of this conference

- Show why i18n is important in Debian (isn't it obvious?)
- Show the current projects regarding i18n/l10n in Debian.
- Discuss on the issues that people that translate currently encounter.
- Make some proposals.

i18n in Debian: What's the rush?

Mojibake = Not nice.



It really means unintelligible gibberish displayed on a screen or printed on a paper when a software fails to handle encodings or fonts in the data stream.

<http://www.debian.or.jp/kubota/mojibake/>

Why is *i18n/l10n* important?

- If we want Debian to be a *Universal* OS system it has to be usable by users regardless of:
 - the language they use
 - the way that language is represented in the computer
- Users need to be able to use it but also to
 - Read about it (documentation)
 - Ask others about it (mailing lists)

What is our status?

- We provide i18n installation of 21 langs in d-i (only 10 >5 po translated), 23 in boot-floppies.
- Release docs: 15 languages (only fully translated in 9 langs)
- Documents: 20 languages (but only 6 with more >5/37)
- Specific work in some subprojects: Debian-jp!
- Statistics: <http://www.debian.org/intl/I10n/>

What is other's status?

- RedHat provides an i18n installation, web/documents is not translated and few system tools are.
- Mandrake provides i18n installation/tools (60+ langs?) but web/documents are not fully translated (5 langs and not all available).
- OpenSBD 15 langs in webpages (only web pages atm)
- FreeBSD 4 langs in webpages (other translations of some docs)

Debian is probably the most *i18nized* free software OS.

Current i18n/l10n projects

There are a number of projects:

- Translation of documentation (DDP+manpages)
- Translation of web server content
- l10/i18n of Debian-specific tools:
 - d-i
 - dselect
 - dpkg
 - apt
 - debconf
- l10/i18n of non-Debian specific programs.
- Translation of packages descriptions (DDTP)

Where does discussion take place?

- Coordination among developers/translators for i18n is done at `debian-i18n@l.d.o`
- `debian-l10n-XXX@l.d.o` mailing lists to provide translators with discussion forums
- `debian-user-XXXX@l.d.o` mailing lists to provide users language-specific forums

Tools translators have to use

- CVS
- Gettext
- Mail management systems (BTS, DDTP)
- Custom tools (usually scripts) to verify "up-to-date"ness (for wml, for manpages)
- Po-management tools (kbabel, gtranslator) for *personal* use

Things developers need to know

- encoding issues
(<http://www.debian.org/doc/manuals/intro-i18n>)
- gettext
- po-debiandoc
- po-debconf
- poxml (KDE)
- ...

Issues in i18n/l10n'ing Debian: organisation

- Translation coordinators have no real power (unless if DD) ("Do not touch l10n files"! thread in -devel/-i18n)
- Multiple interfaces for the same tasks.
- How can I see which are the current bugs related to lang X?
- Translations are not always distributed properly, usefulness drops (#64278, #172482)

Issues in i18n/l10n'ing Debian: technical

- How best to configure the system to use lang X?
- How to check up-to-date status of content: warn users and developers.
- Encoding issues (remember mojibake!)
 - Wrong Assumptions: "one character is one byte", "words are separated by whitespaces"
 - Use unicode
 - Translation is a small topic in i18n area
- How should l10n stuff be distributed? (separate packages or a single package?)

Issues in i18n/l10n'ing programs not part of Debian

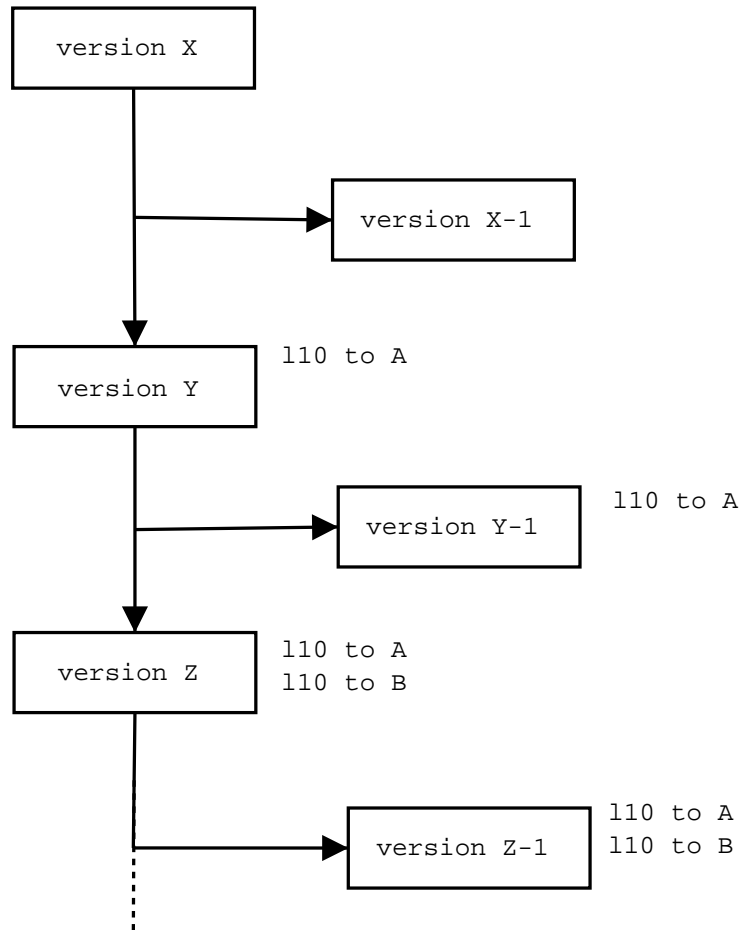
There are two possible approaches:

- Leave i18n/l10n up to upstream
- Do it in Debian and then contribute to upstream

Both have issues (effort duplication, conflicts, divergence, up-to-date checks..)

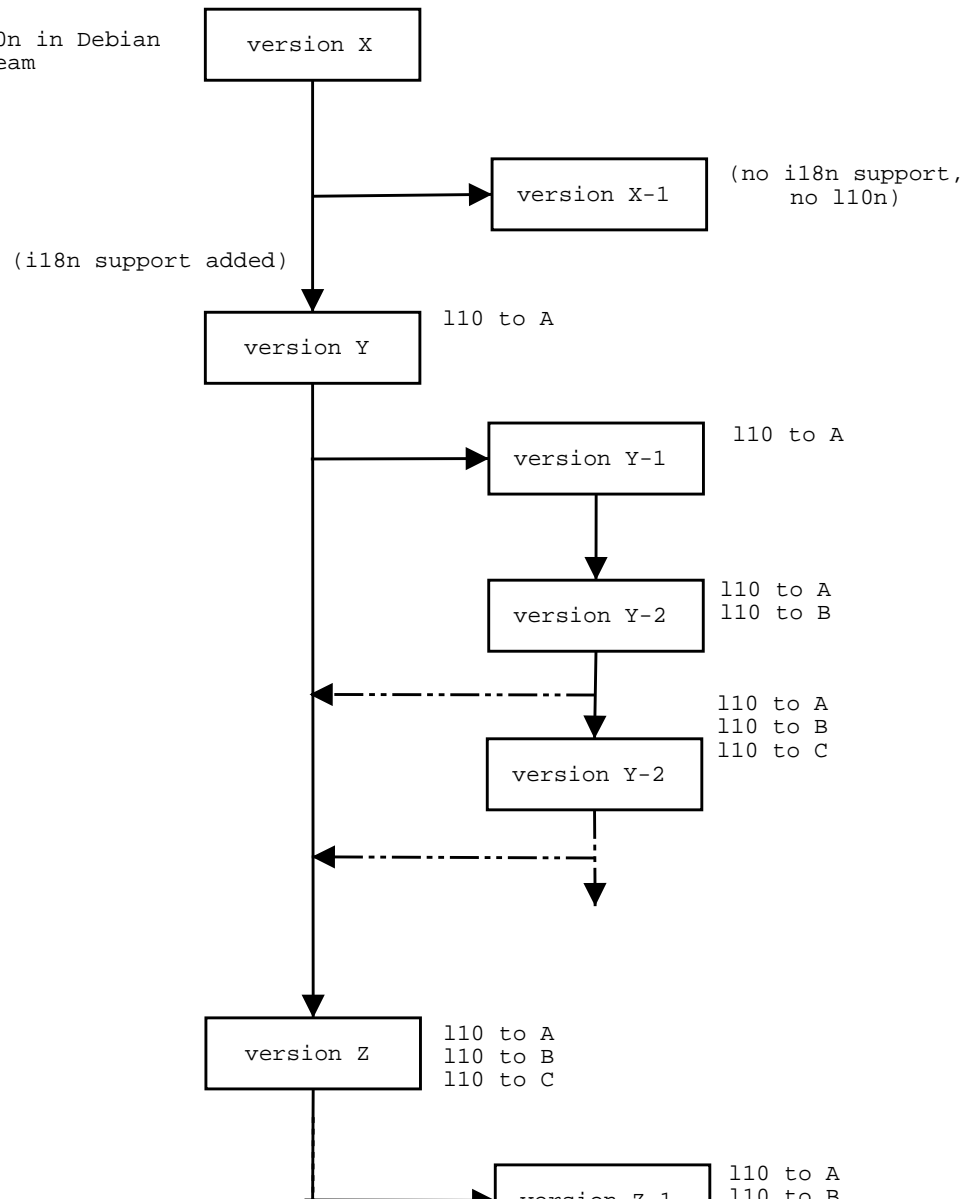
Translation of upstream: leave it up to them

Option 1: Leave translation up to upstream



Translation of upstream: let's do it ourselves

Option 2: Work in 110n in Debian and provide to upstream



Some proposals

Many questions, answers needed (discussion in the mailing lists, please)

- Focus i18n/l10n teams
- Officially supported languages
- Translation *freeze*
- Translators' status
- More tools for the i18n/l10n people
- Support of i18n/l10n tags in the BTS
- Single configuration for language

Will not detail all in this talk....

Proposal: Define priorities to focus i18n/l10n teams

- Debian as a project should say which are the *officially supported* languages:
 - Not all languages are equally well supported
 - It is needed to make decisions (sample: d-i or doc in CDs)
 - If we don't we have to use world data (not relevant)
- Prioritise work, what should i18n/l10n teams first focus on?
Suggested:
 - First: installation
 - Second: documentation (release notes, manuals)
 - Third: debian-specific programs
 - Fourth: other data (such as descriptions or other docs)
 - Fifth: non-debian programs

Proposal: Translation freeze

- After the feature freeze introduce a new freeze for translators
- NMU for l10n related issues are accepted (and encouraged)
- Scheduled before
- Reasoning: Translation is done against a *moving target*:
 - sometimes translators cannot work as fast as upstream.
 - sometimes it does not make sense to translated until it's *finished*
- Some other projects do this (i.e. GNOME, KDE)

testing -> freeze -> translation freeze -> deep freeze -> stable

Proposal: Translators as DD

- Reasoning: translators need access to internal resources to help with translations. Otherwise they need to use proxies (slows down process)
- Make them DD with limited access?
 - No upload of packages (no NMU)
 - Access to CVS servers
 - Access to Alioth

Proposal: BTS support for *i18n*/*l10n*

- Add a *i18n* tag
- Add a *l10n* tag (with language subtag), see #114221
- Reasoning:
 - What should a DD do when he receives a translation-related bug?
 - Coordination of *i18n*/*l10n* integration
 - Bugs cannot be assigned to translation teams (and returned)
 - Users can send bug reports in their language and, through this tag, have it translated for the DD.

Proposal: More tools for translation teams

- Clearing house for translations
 - Single clearing-house for translations: simplify i18n work. (look #105337)
 - GNU's project is not good enough (not all apps in Debian are GNU)
- Provide consistent tools for translations teams, Debian-specific

Proposal: Simple configuration for the system language

- Easy setup of language environment for the end user
 - Just do it once! (on installation)
 - Base it on language / timezone?
 - Use it everywhere!
- user-env packages are hacks!
- Used in:
 - /etc/environment. Or is /etc/language better?
 - Use it for system services? (ftp, mailing list static content? #43257)

Summary

- i18n and l10n is a very important topic if we want to make a Universal OS
- Translators and developers focused in i18n need appropriate tools to do their job.
- We have to discuss and approve an specific policy or set of recommendations for i18n/l10n in Debian (see Martin Quinson's proposal)