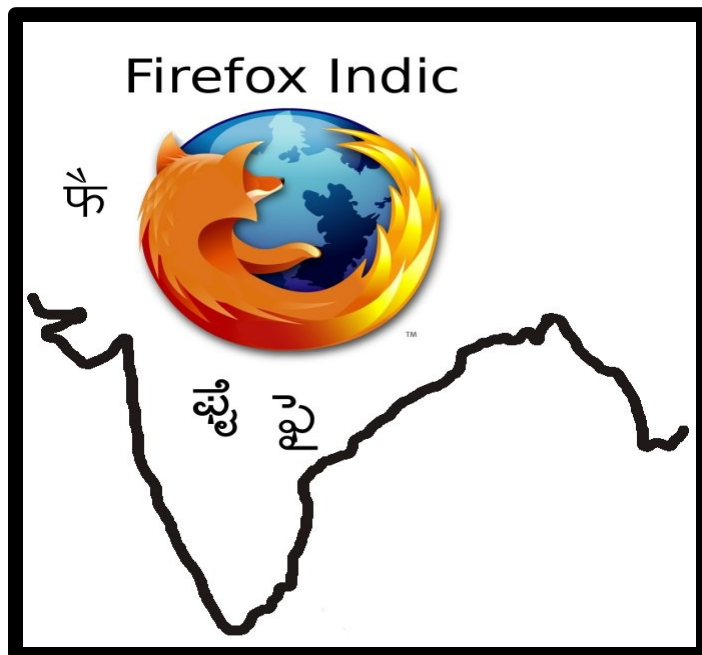


Firefox Indic Localization: Tips & Techniques

Presentation to BarcampBangalore7: 2008-09-14



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Agenda

- Intro to Firefox
 - Learn how to translate/update
- Intro to Firefox Indic
 - Learn IRC Chat
- Contributing to Firefox
 - Learn Wiki
 - Learn Mailing list
 - Learn Firefox localization process
 - Learn to maintain Momentum
- Learn Firefox Bugzilla
- Learn Indic input method & display
- Learn Config Management tool CVS

Firefox

- An Open source web browser managed by Mozilla foundation a non-profit, public benefit corporation
- Projected Statistics (3.0.2)
 - No of Languages: 57
 - No of countries; 161
 - % of users: 20%; 200 million



Firefox Indic

- Version 3.0
 - Gujarati
 - Punjabi
- Version 3.0.2 (16 Sep)
 - Bengali
 - Hindi
 - Telugu
 - Kannada
 - Marathi

Bugzilla -Key fields

Bug 377126 - Intra-word spaces seen in pages containing telugu text.

Status: UNCONFIRMED

Product: Core

Component: GFX: Thebes

Version: unspecified

Platform: PC Linux

Importance: -- normal ([vote](#))

Target Milestone: ---

Assigned To: [Nobody; OK to take it and work on it](#)

QA Contact: thebes@gfx.bugs

URL: <http://eenadu.net>

Whiteboard:

Keywords:

Depends on:

Blocks: Show dependency [tree](#) / [graph](#)

Reported: 2007-04-11 02:05 PDT by [Naresh](#)

Modified: 2008-09-06 10:34 PDT ([History](#))

CC List: 3 users including you ([edit](#))

abc1@xyz.com
abc2@pqr.com
abc3@lmn.com

Flags:

blocking1.8.0.15

wanted1.8.0.x

blocking1.8.1.17

blocking1.8.1.18

wanted1.8.1.x


wanted-next

Commit

Bugzilla -Tips

- URL:<https://bugzilla.mozilla.org/>
- Tips
 - Include two letter language code (like [te] for Telugu) in square brackets as first element in Summary field
 - Always enclose screen snapshots highlighting problem, when submitting indic font/display bugs
 - You can add attachment with comments
 - You can mark previous attachments as deleted and add fresh attachments

Telugu Inscript Keyboard Overlay & Display



మొదటి పేజీ | చర్చ | సోర్సు చూడు | చరితం

Not able to view the Telugu script? [Click Here](#)

తెలికీపై మీ అభిప్రాయాలు రాయండి

Wiki in 5 minutes

వరిచయం

ప్రయోగశాల

ఓపింగ్ నవోయ

వికీపీడియాకు స్వాగతం!

వికీపీడియా ఎవరైనా రాయదగిన ఒక స్వేచ్ఛా విజ్ఞాన సర్వస్వము. ఇది మామూలు ఇక్కడ సమాచారాన్ని చూడటమే కాదు, ఉన్న సమాచారంలో అవసరమైన మార్పుచేర్పులు చెయ్యవచ్చు. ప్రస్తుతం తెలుగు వికీపీడియాలో 41,292 వ్యాసాలున్నాయి. పూర్తి గణాంకాలు

వరిచయం • అన్వేషణ • కూర్చడం • ప్రశ్నలు • సహాయము

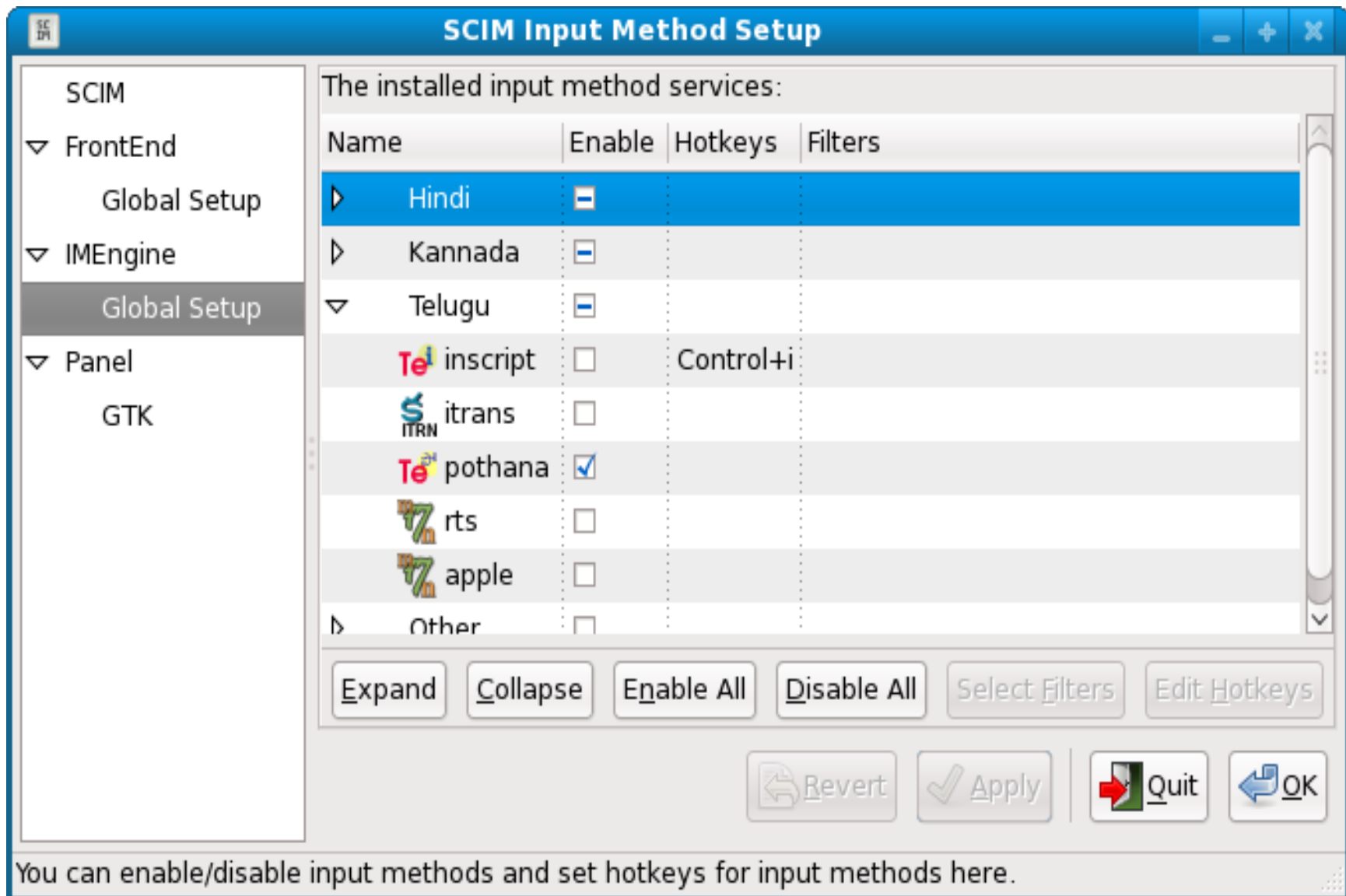
మార్గదర్శకము

- మొదటి పేజీ
- రచ్చబండ
- సముదాయ పందిరి
- వర్తమాన ఘటనలు
- వికీపీడియా గూడులు

~	౭		@	#	(\$	%	^	&	*	()	-	+ ఋ	BS
TAB	Q	W	E	R	T	Y	U	I	O	P	[]	{		
CONTROL	A	S	D	F	G	H	J	K	L	:	;	"	'	RETURN	
SHIFT	Z	X	C	V	B	N	M	<	>	?	/	య		SHIFT	

INSCRIPT OVERLAY FOR TELUGU

SCIM Setup



The installed input method services:

Name	Enable	Hotkeys	Filters
▶ Hindi	<input checked="" type="checkbox"/>		
▶ Kannada	<input type="checkbox"/>		
▼ Telugu	<input type="checkbox"/>		
Te inscript	<input type="checkbox"/>	Control+i	
\$ itrans	<input type="checkbox"/>		
Te pothana	<input checked="" type="checkbox"/>		
7 rts	<input type="checkbox"/>		
7 apple	<input type="checkbox"/>		
▶ Other	<input type="checkbox"/>		

Expand Collapse Enable All Disable All Select Filters Edit Hotkeys

Revert Apply Quit OK

You can enable/disable input methods and set hotkeys for input methods here.

Indic Input method Tips

- Visit [wikipedia](http://en.wikipedia.org/wiki/Wikipedia:Enabling_complex_text_support_for_Indic_scripts) for help on configuring your system for indic input and display
http://en.wikipedia.org/wiki/Wikipedia:Enabling_complex_text_support_for_Indic_scripts
- On Linux, setup SCIM with hotkeys for toggling SCIM and stepping through selected indic input keymaps
- On Windows, setup hotkeys to toggle between English and selected alternate keymaps
- Be aware of lack of rendering standards of ZWJ and ZWNJ on Windows and Linux. Use vowel endings of words and ZWNJ where no space is required between two word fragments

Config Management

- Firefox used CVS till 3.0 version
- Setup CM tool
 - Linux: Built in
 - Windows: Tortoise CVS client tool
- Instructions for anonymous download as part of language pack creation at http://developer.mozilla.org/en/docs/Creating_en-X-dude
- Commit changes
 - Make a diff file and send to the maintainer or raise a bug for patch submission

CVS account

- Raise a bug requesting CVS account. Select Component as “Account request-CVS”
- Fill up the Agreement form <http://mozilla.org/hacking/form.html> and mail it or attach to the issue.
- Get someone to vouch for you. If you are the first person for your language, the 110n-driver will vouch for you
- Get 110n-driver to authorize you
- Submit your SSH public key file on the bug
- You will get an email with your account details
- Example https://bugzilla.mozilla.org/show_bug.cgi?id=427984

IRC

- Internet Relay Chat is the best way to get help
- Setup client
 - Linux: Chatzilla
 - Windows: Chatzilla or alternatives
- Basic commands
 - Attach to a server: `/attach irc.mozilla.org`
 - Join a channel: `/join # 110n`

Wiki

- Wiki is a very good collaboration tool
- Get account on <http://wiki.mozilla.org> or on <http://mozdev.org/>
- Create a page (Ensure you use English text for page/subpages as referring to these will be easier than indic text page titles)
- Create subpages by typing `<URL for mainpage>/<subpagename>`
- Ensure parent links by using `[[parent page]]`

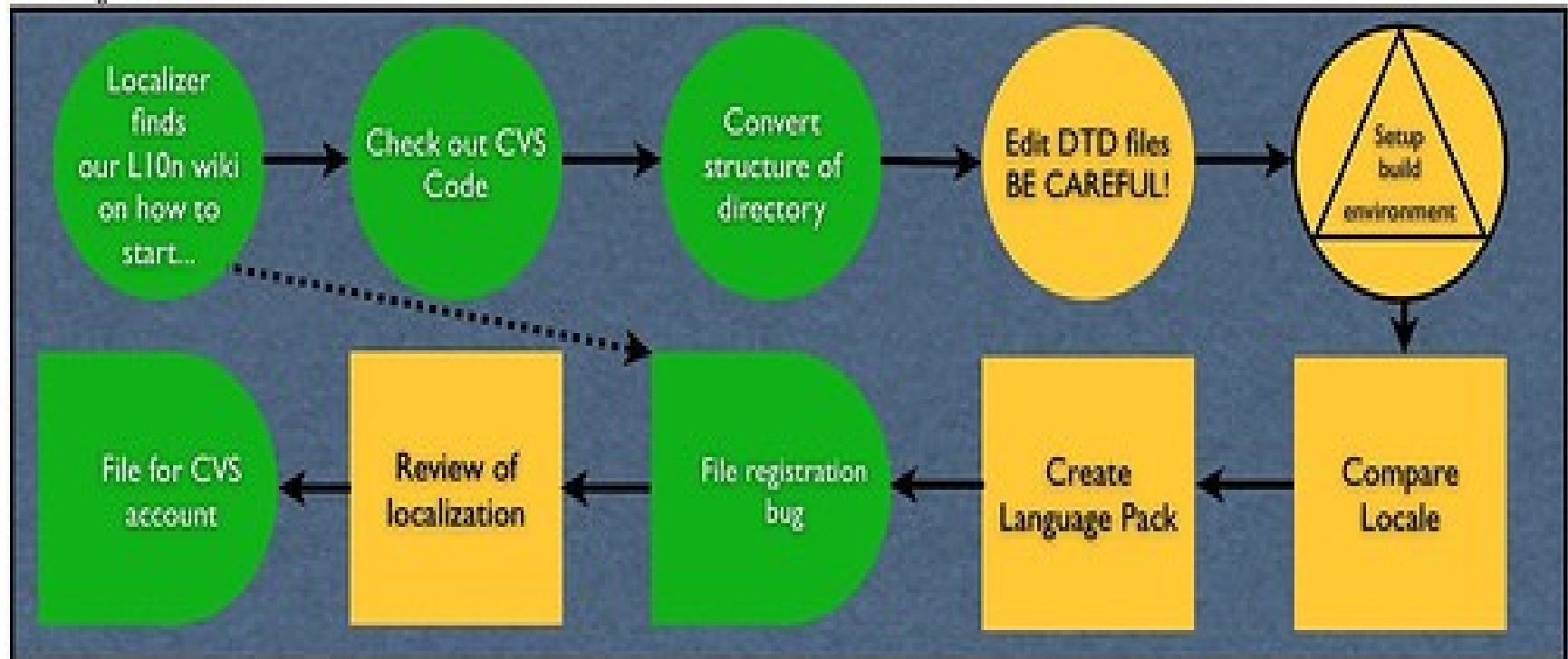
Mailing Lists

- Setup one on any host like Yahoo or Google
- Check whether an existing list covers the scope of your work before creating new one
- Promote it in language community like blogs wikipedia, indlinux, indianoss
- Keep the list active by regular updates
- Set approval mechanism for admitting members and approving initial emails to prevent spam

Firefox localization Proce

- https://wiki.mozilla.org/L10n:Becoming_an_Official_Localization

- **Starting a localization**



Maintaining Momentum

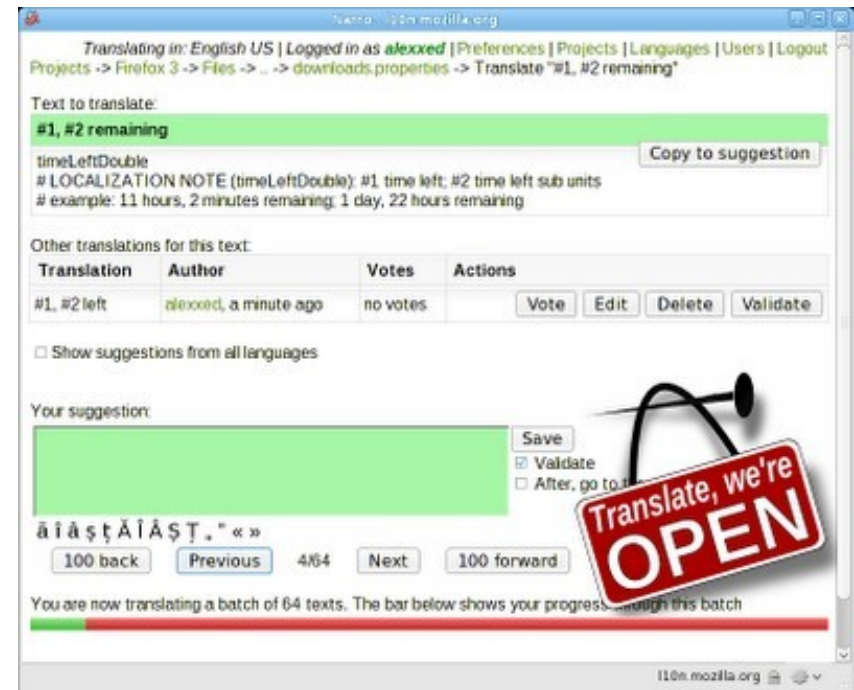
- Keep track of happenings on Mozilla/Firefox
 - <http://planet.mozilla.org/>
- Participate in community events and share the updates
 - Foss.in
 - Barcampbangalore.org

Translation Tips

- Translation Complexity
 - keys: 842
 - # of Strings: 5132
- Specific issues with zwj, zwnj rendering of foreign words into indic languages: Be aware of differences between linux and Windows
- Use BlueFish or other HTML editor to replace a string that appears in multiple files.
- Watch out for replace errors, when dealing with partial indic strings

Future directions

- Narro: Web hosted multiuser translation tool :
<https://wiki.mozilla.org/Narro>
- Frequently Used Entries for localization (FUEL)
<https://fedorahosted.org/fuel>



Appendix

Telugu Firefox URLs

- Wiki: <http://wiki.mozilla.org/Firefox-te> (Telugu & English)
- Mailing list: firefox_te@googlegroups.com
 - http://groups.google.co.in/group/firefox_te
- Blogs
 - <http://teluginux.blogspot.com>
 - <http://tech4society.blogspot.com> (in English)