Making the Web Multilingual with Wikipedia

Internationalization Team Wikimedia Foundation



Do you know?

- Wikimedia projects are available in 284 languages
- Wikipedia is the largest multilingual website in the world
- All these wikis get 18 billion page views per month by 500 million unique visits
- Wikimedia Foundation is a non-profit with 100 employees and a budget of 30 million USD
- 1 million micro donations supportWikimedia's budget

Who are we?

We are the Internationalization team of Wikimedia Foundation
We are a global team with fluency in 25 major languages
We develop and maintain language support tools for Wikimedia websites and Mediawiki

Team Members: Alolita Sharma, Siebrand Mazeland, Santhosh Thottingal, Niklas Laxstrom, Amir Aharoni, Arun Ganesh, Pau Giner, Srikanth L



Universal Language Selector

Because there are too many languages to choose from



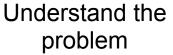


How can I search for सितार (sitar) with the Hotel public PC?

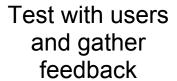
Rakha, an Indian musician visiting Europe

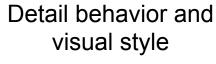
The process











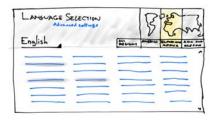
Implementation and testing



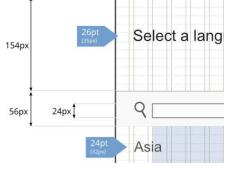


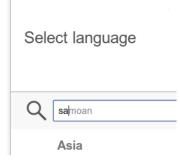














The Universal Language Selector

ULS = Language picker + settings + integration









The Universal Language Selector

ULS = Language picker + settings + integration





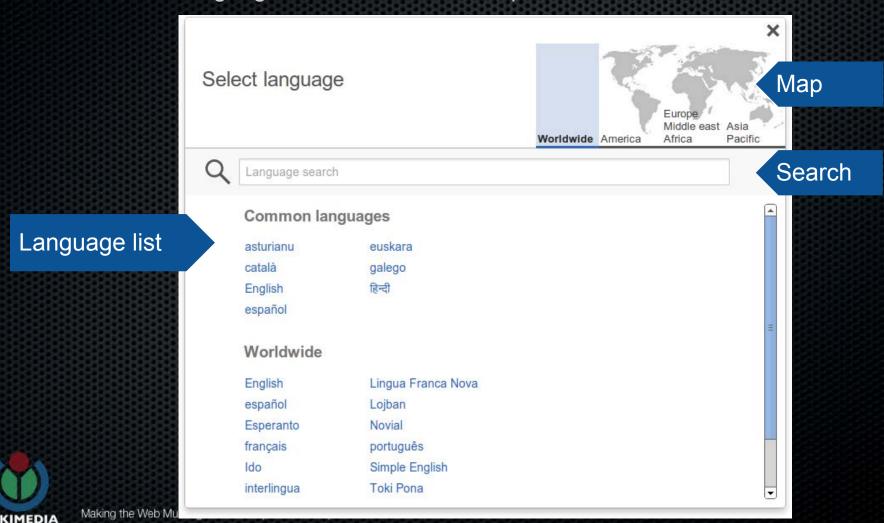




Language picker

FOUNDATION

How to find a language with more than 400 options?

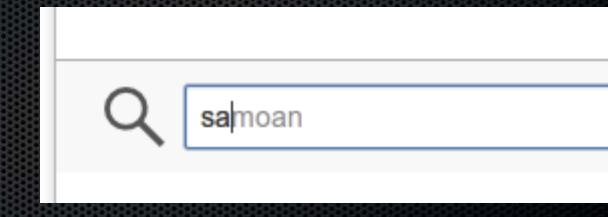


Language picker: Search

Search is flexible

Autocompletion

Type language name in another language



Cross-language

Language names in another language

Typos allowed

For users typing fast

ISO codes

For advanced users



Language picker: List

Make a long list easier to scan

A small map as an index

4 columns 8 rows

Grouped by region and script





The Universal Language Selector

ULS = Language picker + **settings** + integration

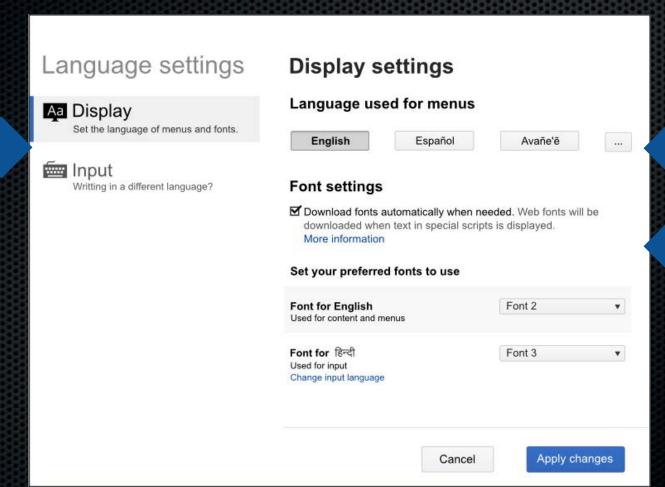








Settings: Display



Short list of languages

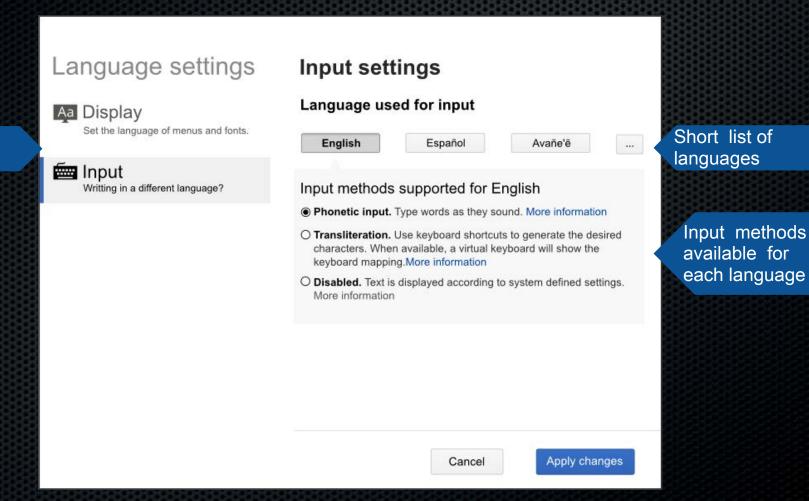
Font settings (if needed for the languages)



Settings

menu

Settings: Input



Settings

menu

The Universal Language Selector

ULS = Language picker + settings + integration







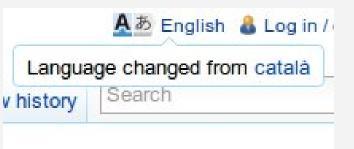


Integration

translatewiki.net

Wikidata

More to come...







The testing process: testing prototypes



2 users for pilot tests 5 - 6 May

4 users for 1st round 25 May - 4 Jun 6 users

for 2nd round 11 - 22 Jun

6 users

for testing impl. 11 - 22 Jun

20 Languages.

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Hindi, Tamil, Marathi, Gujarati, English, Hebrew, Dutch, French, German, Macedonian, Russian, Catalan, Luxembourgish, Tetum, Spanish, Latin, Breton, Italian, Nepali and Esperanto Making the Web Multilingual with Wikipedia / 20 September 2012 / Wikin

12 Locations.

India, USA, UK, Nepal, Netherlands, Israel, France, New Zealand, Luxembourg, Germany, Canada and Spain

Technical details

- ULS is a jquery plug-in
- Modular
- Supports all languages defined by Unicode
- Open source

https://www.mediawiki.org/wiki/Universal_Language_Selector



Use, Fork, Improve

https://github.com/wikimedia/jquery.uls



Internationalization Library

Because internationalizing applications should be easy and you shouldn't reinvent the wheel



Internationalization Library

- General-purpose internationalization library
- Written in jQuery
- Open source MIT, GPL Licensed
- Messaging, Plural, Gender, Grammar support



Use, Fork, Improve

https://github.com/wikimedia/jquery.i18n



Webfonts

Because locating and installing fonts for non-Latin scripts is too hard



Webfonts

- Delivers fonts to the browsers from server
- CSS3 technology
- Large repository of freely licensed fonts
- 44 fonts for 20 scripts



jQuery.webfonts

- General purpose webfonts library
- Focus on making fonts available for all parts of a multilingual website
- Flexible repository configuration



Use, Fork, Improve

https://github.com/wikimedia/jquery.webfonts

Are you a typographer?

Talk to us!



Typing tools

Because there are challenges in typing in non-Latin scripts



Do you know how to type in your mother tongue?



Mediawiki Input tool - Narayam

- Provides 60 input methods in 34 languages
- Community contributed and tested input methods
- Widely deployed in many WMF wiki projects
- Soon available as open source jquery library (jquery.ime)



Because translating applications to any language should be easy

- Siebrand Mazeland
- Product Manager, Localisation
- Community Manager translatewiki.net
- Wikipedia volunteer
- Language afficionado



OMG!

srpskohrvatski / српскохрватски қазақша English llonggo rumantsch मैथिली кілагау-а къарачай-малкъар žemaitėška Aymar aru (عَانِ اقْسًا (تُوتُه vahcuengh Plattdüütsch siswati Cebuano া Pälzisch Novial 🕰 Pangasinan Patois saggssch мокшень Ladino Mìng-dĕng-ngt norsk (bokmål) Hak-kâ-fa furlan Plautdietsch Kırmancki Bahasa Banjar Runa shimi Nnapulitano Kiswahili Suomi башкортса лакку 吴语 Schweizer Hochdeutsch azərbaycanca Piemontèis বিষ্ণুপ্রিয়া মণিপুরী ಕನಡ sámegiella Fullula British English ไทย Basa Jawa Bráhuí 赣语(简体) Сhavacano de Zamboanga ਪੰਜਾਬੀ рt-pt Перем Коми Türkmençe română aragonés маол Baso Minangkabau hornjoserbsce latgaļu தமிழ் влахесте Taqbaylit Avañe'ē тыва дыл точики іsіхноза inuktitut ತುಳು ქართული ತಲುಗು Kapampangan Cmique Itom Tiếng Việt Boarisch हिन्दी 👬 bamanankan 🖫 🖫 Sesotho Íslenska ಸಿಇರ್ Message documentation မြန်မာဘာသာ Español (formal) છે хальмг Sassaresu فارسی võro Bahasa Melayu ລາວ संस्कृतम् Sranantongo 日本語 中文 (香港) Esperanto Silozi lea faka-Tonga Kreyòl ayisyen Lingua Franca Nova dansk italiano Gagauz evegbe slovenčina Araona русиньскый нохчийн euskara hrvatski Nederlands (informeel) brezhoneg espanol de America Latina eesti français cadien Gàidhlig капил Ænglisc galego Ἀρχαία ἐλληνικὴ Test (site admin only) Akan emiliàn e rumagnòi Santali srpski (latinica) نجو مه Fiji Hindi Ελληνικά ينجابي भोजपुरी Xitsonga ko e vagahau Niue Na Vosa Vakaviti Prūsiskan עברית Bahasa Indonesia zza vepsän kel' català Capiceño אונגע kalaallisut φχ (新加坡) Gothic 한국어 (조선) 贛語(繁體) नेपाल भाषा West-Vlams Kongo 湘海 Nedersaksisch български Bikol Central سنتي مازروني بلوچي مكراني kaszëbsczi arero rapa nui isiZulu Gegë українська мжилести 中文(中国大陆) Ligure сму Albaamo innaaiiilka одна Deitsch മലയാളം Адыгэбээ Qaraqalpaqsha tojikī қазақша (кирил) magyar occitan かいいと Uyghurche Latina Magribi 中文 português do Brasil српски (ћирилица) Emiliàn 中文(繁體) Basa Sunda Volapük токі Рола словъ́ньскъ / 問題問題問題問題問題 American sign language лезги Nāhuatl 中文(简体) Wolof žemaitėška Deutsch Mainfränkisch татарчальнагçа Чавашла Tarifit Åarjelsaemien сызыопа Наwai`i کوردی Mizo ţawng Агьсшөа беларуская (тарашкевіца) kernowek Cymraeg Interlingue Canadian English Dorerin Naoero Winaray lingála Basa Banyumasan polski товк shqip беларуская नेपाली bosanski ки-laku-latn †uroyo Limburgs प्राथन अङ्गिका Soomaaliga Armāneashce slovenščina Seeltersk къырымтатарджа (Кирилл) Dziri Igbo авар অসমীয়া каrjala Magyar (magázó) Konknni Македонски Lëtzebuergesch ગુજરાતી Lojban Ирон олык марий міктая العربية sardu 한국어 føroyskt Kurdî (latînî) Nordfriisk Bân-lâm-gú sicilianu Malti Österreichisches Deutsch اردو Nouormand الله Česky Ilokano Vad'd'a zeêuws Tagalog Yorùbá Krio norsk (nynorsk) Mirandés Faeag Rotuma Zazaki मराठी српски / srpski толышә зывон Поvтіака́ Раріаmentu viäheşte Alemannisch (Kasakotah) वर्ग्याप dolnoserbski jysk Deutsch (Sie-Form) gazaqşa (latın) вайа Lazuri tarandíne могик/Ріккет кыргызча 中文(台灣) Gaeilge дыгэбээ Runa Simi Ток Pisin ଓଡ଼ିଆ удмурт français português vèneto mapudungun Scots эрзянь ынил latviešu norsk (bokmål) татарча коми 文言 രാരുമാന്ത്ര nl-be молдовеняска Sängö кырык мары Romani Sesotho sa Leboa Հայերեն Picard arpetan беларуская (тарашкевіца) Chamoru Luganda Diné bizaad مُؤْسَ oʻzbekcha ትግርኛ Wayúu Yupʻik tetun ייִדיש qırımtatarca (Latin) interlingua asturianu বাংলা svenska Schläsch ئۇيغۇرچە Гіалгіай مصرى Gagana Samoa ckb-arab estremeñu Kotava Адыгэбзэ Guadeloupean Creole French МОНГОЛ Rumagnôl Ido ස්රවේල Ваћаѕа Ветамі Саха тыла Acèh Dusun Bundu-liwan Afrikaans Türkçe بختياري



Facilitate and support software localisation in all classified languages

- 4,000+ translators
- 300 languages
- 20 open source products
 - MediaWiki
 - OpenStreetMap
 - Encyclopedia of Life
 - StatusNet

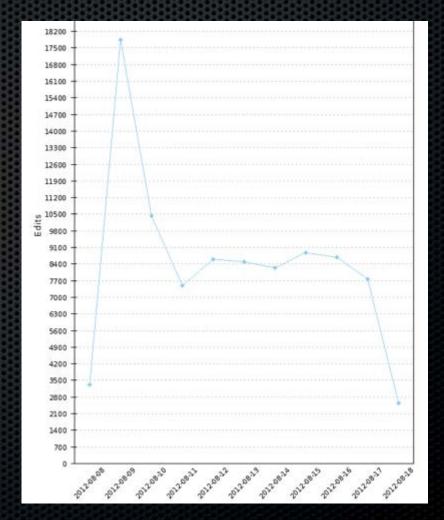


- Crowd sourcing (all social media, talks, Wikimedia wiki's, blogs, ...)
- Assume good faith (give access liberally)
- Develop to the user's needs
- Community building in a wiki
- Few formal processes (do-ocracy)
- Translation hints (TM, MT)
- Multiple contribution methods



Incentivise users

- Pledge to share USD 1,000
- See traffic quadruple
- 66,000 translations in 9 days
- Need more sponsors:)





The path to Guiding a user to become a translator

Spreading the message of localization
Do people know why translation is important and why it is done?

Understanding the platform Does the user understand what the localization system does?

Correcting mistakes

Are users able to find common mistake and correct them easily?



Getting community help

How and where can a user find help when required?

Proofreading

Are translators happy with the quality of translations?

Registering as a translator

signup and activation process?

Are users motivated enough to go through the

Start translating!

Do users find it fast and easy to make translations?

localización

UX Design Improvement for Translators - Process

Multilingual prototypes and screens
Live user testing with multilingual users
Transparent and participative design
process
Regular wiki documentation of progress

The Goal:

Make users feel valuable while contributing translations



Translate

- Platform
- Modularity
- APIs, VCS integration
- Translation aids
- External service integration



Translate platform

- A MediaWiki extension for localization
 - User management, version control, talk pages for free
 - Easy to install
- Written in PHP, JavaScript
- Open Source
- Documentation not only for users, but also for developers



Translate modularity

Supports many localization file formats:

Gettext, AndroidXML, Java properties...

Supports multiple content types

Software, wiki pages, SVG files...

Not supported? Write a PHP class!



Translate integration

Web accessible APIs

- Pull translation statistics
- Pull latest translations
- Or write a new translation interface
- We are making more functionality available via API

Tools to pull and push translations directly into version control systems



TM

MT

Message docs

Suggestions from translation memories and machine translation

↓Mukautukset

↓Muutettu

100.00% match •

77.50% match • • •

↓Valitsimet

Microsoft

Information about message (contribute)

A **modifier** as a game concept is an element that modifies the way an ability is used.



Message definition (FreeCol)

. Modifiers

Mukautukset

Summary:

Save (a)

Save and open next (s)

Skip to next (d)

Ask question

Translation history (h)



Get involved!



Wikipedia is written by people just like you

- Press the "edit" button
- Write your changes
- There's no step three



Translate!

- Know languages?
- Help complete and proofread translations of MediaWiki and related products:
- https://www.translatewiki.net



Coding an open source project?

- You want to localize your project:
- More users, more bug reports, more opportunities
- Plus, it's easy!
- Just put your project for translation at translatewiki.net
- Let volunteers translate (just be sure to listen to issues that they report)



Use our open source i18n libraries

- Add them to your site:
- jquery.uls easy language selection
- jquery.ime easy typing
- jquery.webfonts easy font loading



Report problems in our websites!

- Having a technical issue with Wikipedia or any of our other sites, or in your own MediaWiki installation?
- Report it!
- https://bugzilla.wikimedia.org



Code!

- Know PHP or JavaScript?
- (Or want to learn?)
- Clone the MediaWiki Git repo and submit patches

https://www.mediawiki.org/wiki/Git



Contact us

Mailing list: https://lists.wikimedia.org/mailman/listinfo/mediawiki-i18n

IRC:

#mediawiki-i18n at freenode.net

Work with us:

http://wikimediafoundation.org/wiki/Jobs

