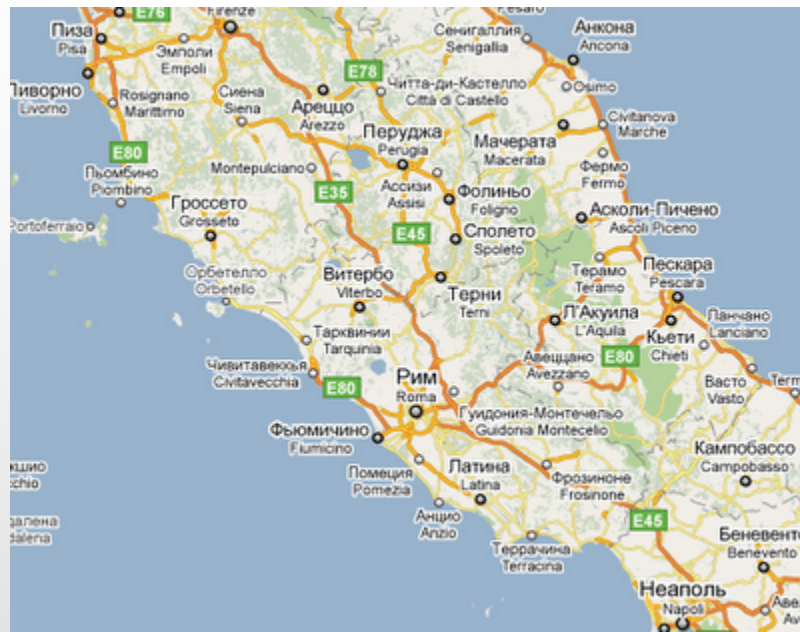


Unicode BCP47 Extensions

Mark Davis

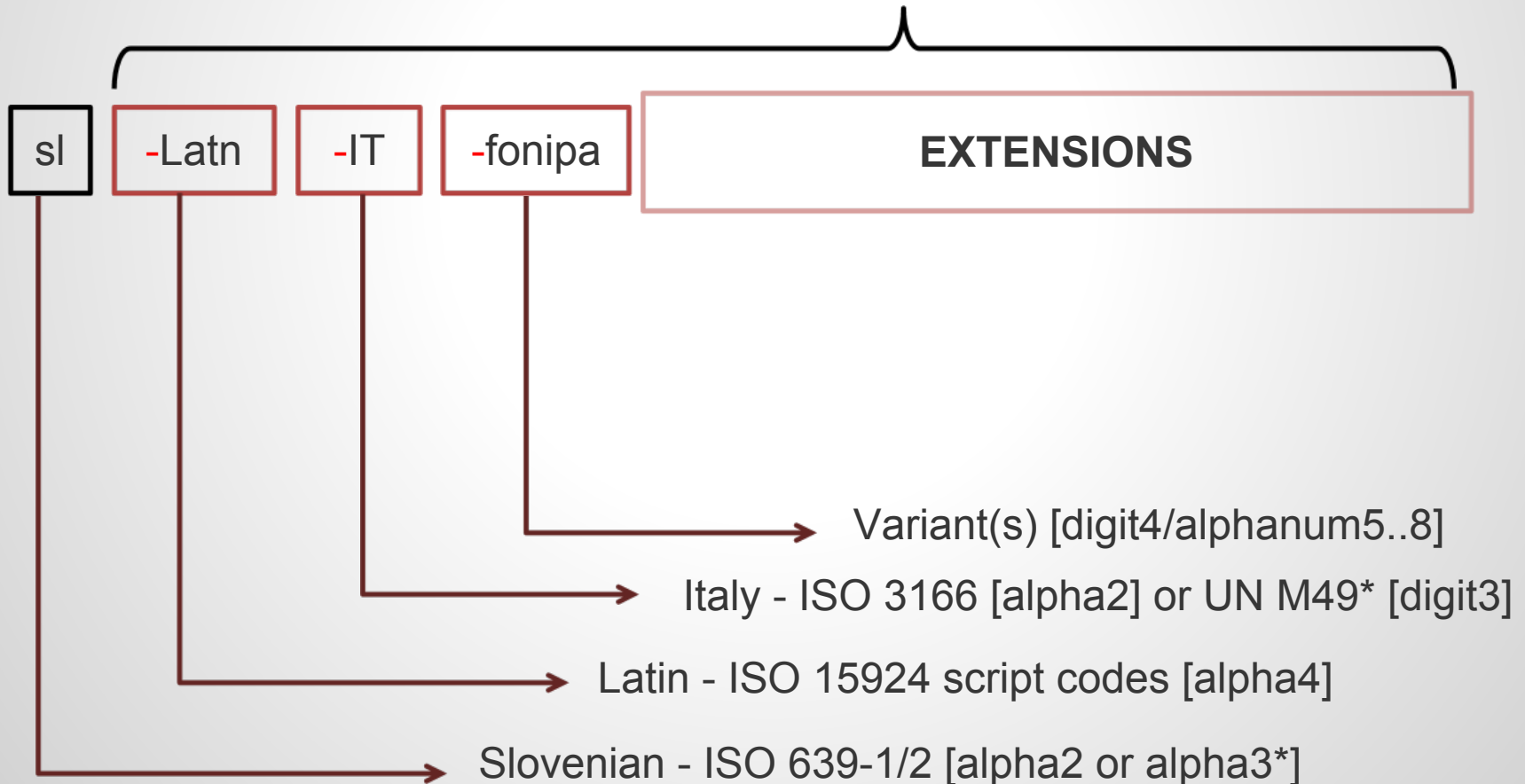
<http://goo.gl/owbBk>



Unicode Locale/Lang ID

- BCP47±

Optional: only use where needed



Extension U: Unicode Locales

- [RFC6067](#)
- Two-letter keys...
 - ca - [bcp47/calendar.xml](#)
 - nu - [bcp47/number.xml](#)
 - co - [bcp47/collation.xml](#)
 - + specialized collation settings: ka,...
 - cu - [bcp47/currency.xml](#) (*compat*)
 - tz - [bcp47/timezone.xml](#) (*compat*)
- ... + values

U Examples

- **th-u-ca-buddhist**
 - Thai with Buddhist calendar
- **de-u-co-phonebk-ka-shifted**
 - German using Phonebook sorting, ignore punct.
- **ar-u-nu-native**
 - Arabic with native digits (٠ ١ ٢ ٣ ٤ ...)
- **ar-u-nu-latn**
 - Arabic with Western digits (01234...)

Extension T - Transforms

- [RFC6497](#)
- [General](#)
 - Transliterations, transcriptions, translations, etc.
 - For unstructured interchange, only locale ID avail.
- Examples
 - ja-t-it
 - ja-Kana-t-it
 - und-Latn-t-und-cyrl

Extension T - Specialized

- m0 - [Mechanisms](#) (*typically authorities*)
 - und-Latn-t-ru-m0-ungegn-2007
- i0 - [Input Method Transformation](#)
 - zh-t-i0-pinyin
- k0 - [Keyboard Transformation](#)
 - en-t-k0-dvorak
- t0 - [Machine Translation](#)
 - ja-t-de-t0-und
- x0 - [Private Use](#)
 - ja-t-de-t0-und-x0-medical

Resources

- Choosing a language tag
 - <http://w3.org/International/questions/qa-choosing-language-tags.en>
 - <http://cldr.unicode.org/index/cldr-spec/picking-the-right-language-code>
- Extension fields/subfields
 - Last Release:
 - <http://unicode.org/repos/cldr/tags/release-21-0-2/common/bcp47/>
 - Latest snapshot:
 - <http://unicode.org/repos/cldr/trunk/common/bcp47/>
 - Requesting registrations:
 - <http://tools.ietf.org/html/rfc6497#section-2.6>
 - <http://unicode.org/cldr/trac/newticket>

Discussion

Background slides

Unicode Locale/Lang ID (2)

- UTS #35 *Unicode Locale Data Markup Language* (LDML)
- Based on [BCP 47](#) + [RFC 6067](#) + [language-subtag-registry](#)
- Some restrictions & extensions
 - Both '_' and '-' as separators
 - No extlang, no irregular (grandfathered) tags
 - Uses “zh” for compatibility, not “cmn”, etc.
 - Private use codes defined
 - “ZZ” for Unknown Region