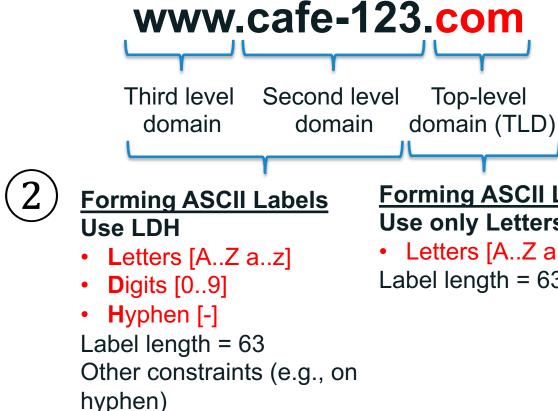
Introduction to Internationalized Domain Names (IDNs)

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AFRALO Webinar 10 May 2022



ASCII Domain Name Label





Letters [A..Z a..z] Label length = 63



Why Do We Need Internationalized Domain Names (IDNs)?

"The Web does not just connect machines, it connects people."
-- Tim Berners-Lee

"Language is just as important to building human connections online as it is offline." -- The Digital Language Divide





Scripts Used in the Africa Region

ASCII

lubakasai swahili northernsotho farefare afrikaans swazi malagasy chokwe kinyarwanda bemba southernndebele nyungwe shona seychelloiscreole xhosa sotho luvale zulu ndebele swati kituba kikongo capeverdeancreole umbundu ganda lingala mampruli

Ethiopic script

tigrina tigriya amharic

Latin Script

chichewa dazaga hassaniyya bulu oromo wolof fang guinea oshiwambo mandinka tamazight tonga portuguese venda iula krio tswana bissau creole kimbundu gen juba arabic bari maba yoruba hausa igbo lozi pular zande equatorialguineanpidgin kanembu bagirmi tsonga

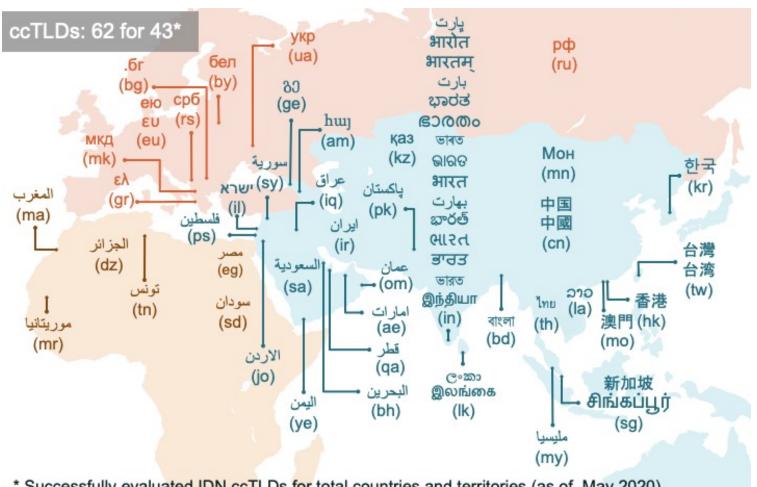
Arabic script

arabic arabicegyptian



IDN Country Code Top-Level Domains (ccTLDs)

Implement the string evaluation as part of the IDN ccTLD Fast Track process •



^{*} Successfully evaluated IDN ccTLDs for total countries and territories (as of May 2020)



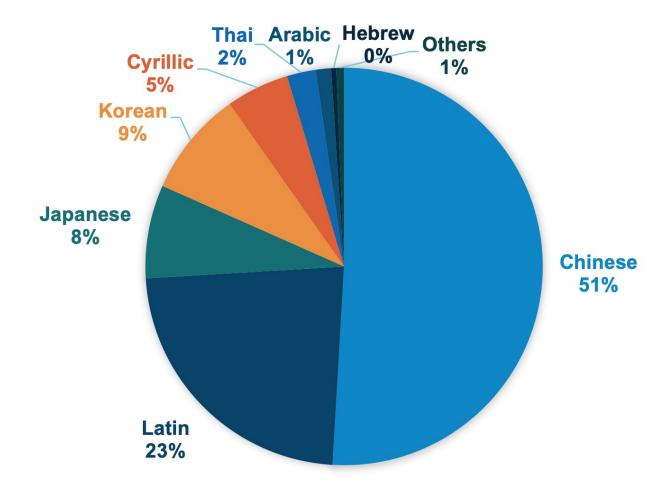
IDN Generic TLDs (gTLDs)



93 IDN gTLDs have been delegated



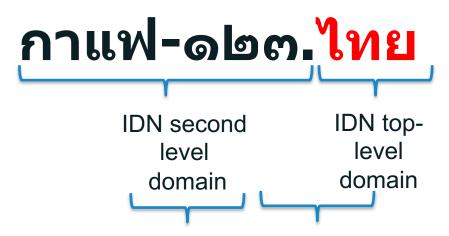
IDN Registrations by Script Under gTLDs (April 2021)



Based on 1.6 million registrations



Internationalized Domain Names (IDNs)



2 Syntax of IDN Labels
Valid U-Label: Unicode
code points as
constrained by the
"LDH" scheme within
IDNA 2008 – sets
baseline limiting to
letters, marks and
digits.

Syntax of IDN Labels
Valid U-Label, further
constrained by the
"letter" principle for
TLDs.





Domain Names in Different Scripts

Arabic Armenian Georgian

Korean Malayalam Oriya

- 1. համընդհանուր-ընկալում-թեստ.հայ
- 2. ଯୁନିଭରସାଲ-ଏକସେପ୍ଟନ୍ସ-ଟେଷ୍ଟ୍ରଭାରତ
- 3. უნივერსალური-თავსობადობის-ტესტი.გე
- 4. 다국어도메인이용환경테스트.한국
- സാർവത്രിക-സ്വീകാര്യതാ-പരിശോധനം.ഭാരതം
- تجربة-القبول-الشامل موريتانيا 6.



Domain Names in Different Scripts

1. համընդհանուր-ընկալում-թեստ.հայ

Armenian

2. ଯୁନିଭରସାଲ-ଏକସେପ୍ଲମ୍ସ-ଟେଷ୍ଟ୍ରଭାରତ

Oriya

3. უნივერსალური-თავსობადობის-ტესტი.გე

Georgian

4. 다국어도메인이용환경테스트.한국

Korean

5. സാർവത്രിക-സ്വീകാര്യതാ-പരിശോധന.ഭാരതം Malayalam

تجربة-القبول-الشامل موريتانيا 6.

Arabic



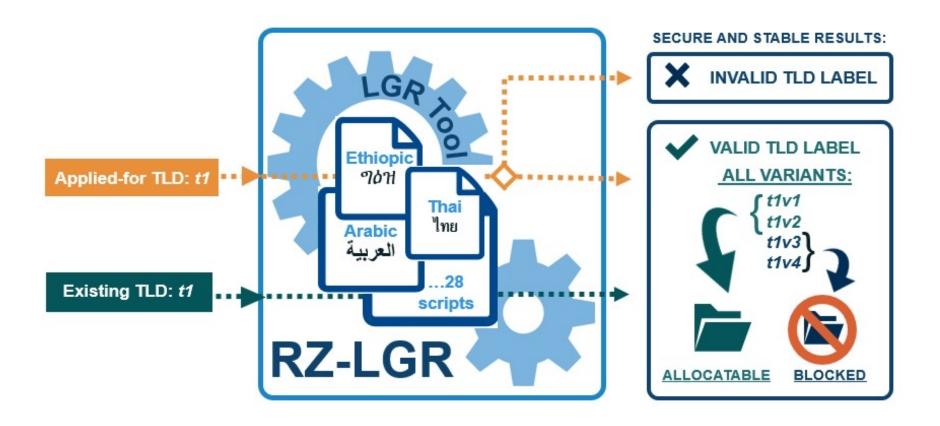
What are Variant Labels?

Variant labels are labels considered the "same" in some measure by a given community of Internet users.



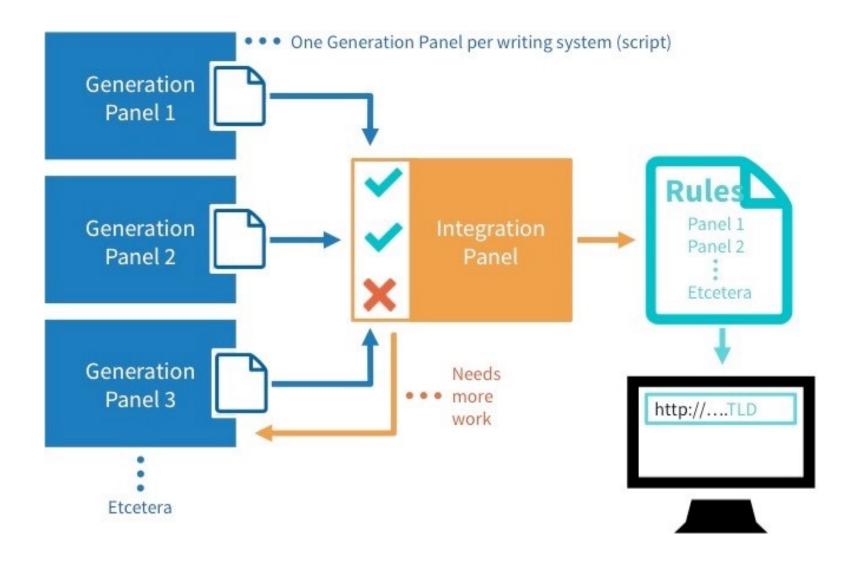


How Does Root Zone Label Generation Rules Work?





RZ-LGR Proposal Development Process





Community Contribution to IDNs

44

countries represented by GP members 10,000+

volunteer hours

270+

script community volunteers

years of work

386+

languages supported by Generation Panel work

26

unique scripts covered by LGR proposals

30+

Public Comment proceedings

17 Generation Panels

ICANN



Current Status of RZ-LGR

- In 2019, the ICANN Board <u>resolved</u> that the GNSO and ccNSO take into account the Recommendations for Managing the IDN Variant TLDs which integrated the use of RZ-LGR in their policy development processes.
- In 2020, the ICANN Board <u>resolved</u> that the GNSO and ccNSO take into account the Recommendations for the Technical Utilization of the Root Zone Label Generation in their policy development processes.
- In 2021, the GNSO published its <u>Report on New gTLD Subsequent</u>
 <u>Procedures</u> which incorporates the use of RZ-LGR for the next round.
- RZ-LGR-5 <u>Public Comment</u>: Closing 11 May 2022 and integrates 26 scripts: **Arabic**, Armenian, Bangla, Chinese (Han), Cyrillic, Devanagari, **Ethiopic**, Georgian, Greek, Gujarati, Gurmukhi, Hebrew, Japanese (Hiragana, Katakana, and Kanji [Han]), Kannada, Khmer, Korean (Hangul and Hanja [Han]), Lao, **Latin**, Malayalam, Myanmar, Oriya, Sinhala, Tamil, Telugu, and Thai.



What's Next?

- Review the RZ-LGR-5 <u>Public Comment</u> and provide feedback.
- Relevant IDN policies are currently being developed by the ccNSO and GNSO.
- Scripts in the RZ-LGR will be eligible for the next new gTLD round.
- Support Universal Acceptance (UA) efforts as IDNs need UA in order to work in all systems and websites.
- ⊙ Contact us: IDNProgarm@icann.org



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