



84

ANNUAL
GENERAL
MEETING



Internationalized Domain Names (IDNs) and Universal Acceptance (UA)

26 October 2025

Internationalized Domain Names (IDNs)

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What is an Internationalized Domain Name?

cafe123.com

Second Level
Domain

Top Level
Domain



American Standard Code for Information
Interchange (ASCII) Domain Name

ตัวอย่าง.เว็บ

Second Level
Domain

Top Level
Domain



Internationalized Domain Name (IDN)

IDN Program Objectives

Enable deployment of domain names in the *local languages and scripts* used by the communities globally in a *secure and stable* manner



What are the code point (characters) allowed in IDNs?



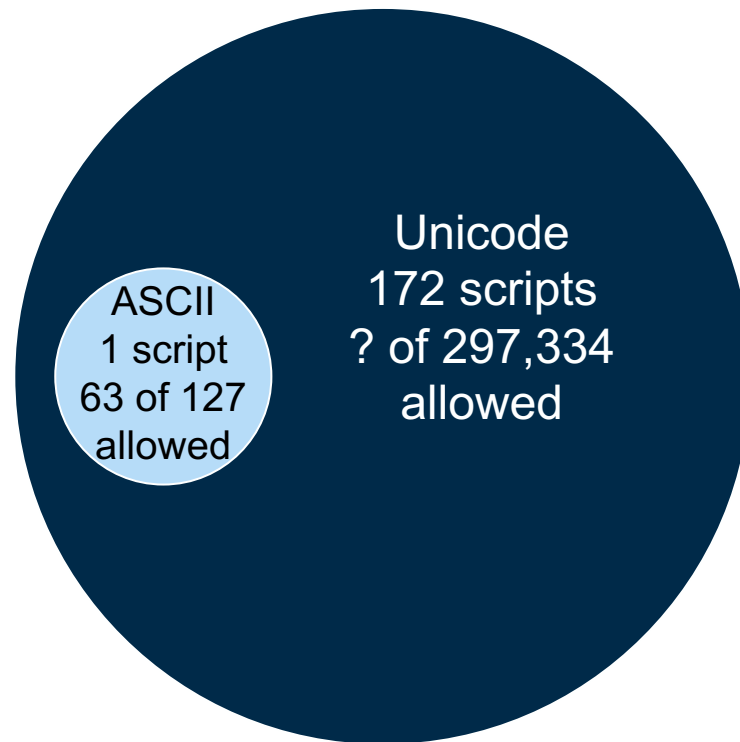
What are the variant (something perceived as same) definitions?



What are the rules?

Allowed Code Points for IDNs

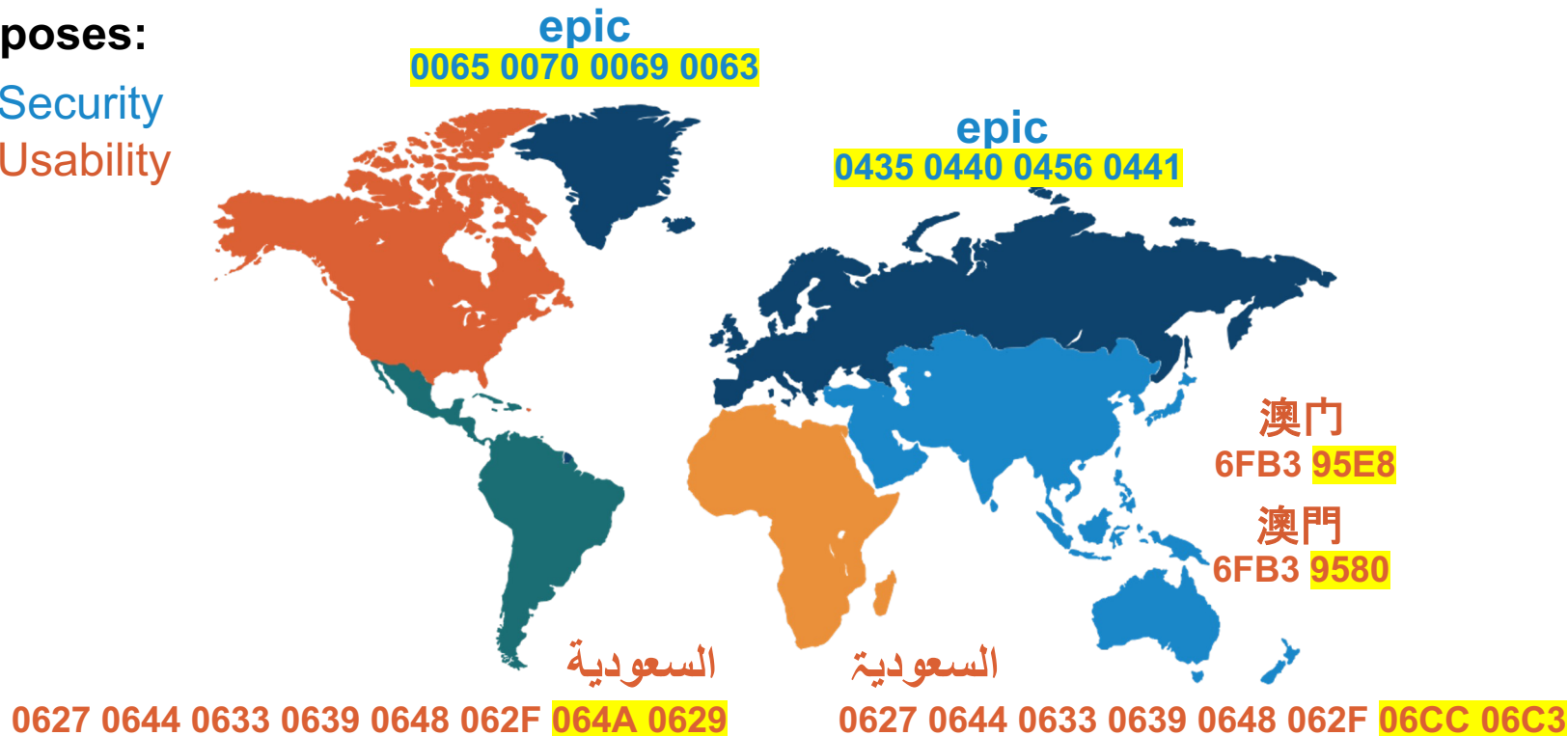
- 63 code points (a-z, A-Z, digits, hyphen) out of 127 ASCII code point are allowed in domain names
- How many code points should be allowed in domain names from the 297,334 code points in Unicode version 16.0.0?



Variant Definitions

Purposes:

- Security
- Usability



Label Generation Rules (LGRs)

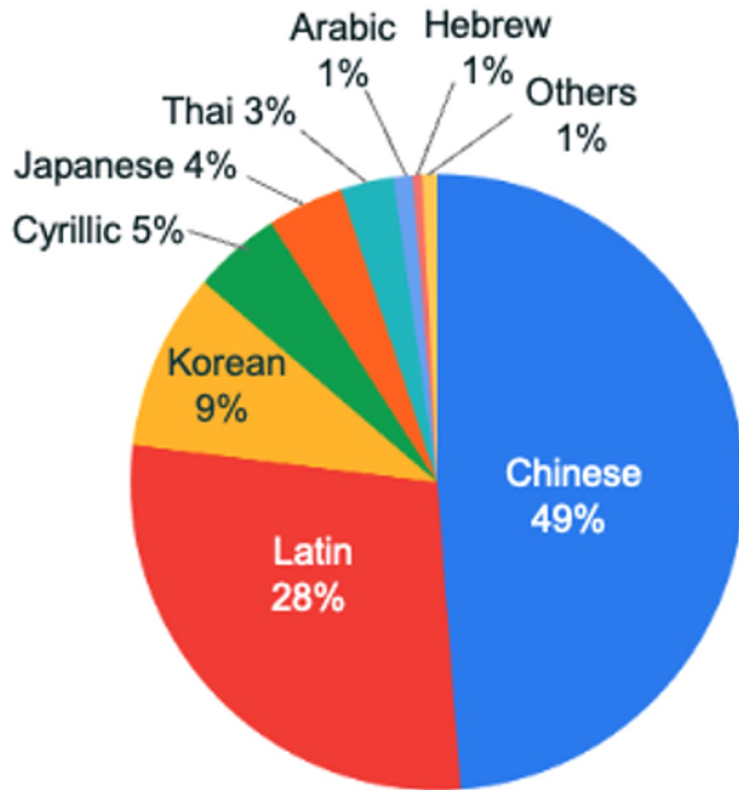
- Label Generation Rules (LGRs) provide a conservative mechanism to determine valid IDN labels and their variant labels, for stable and secure operation of the DNS Zone.
 - At the top level, [Root Zone LGR \(RZ-LGR\)](#) were developed by the Script Generation Panel and Integration Panel as per the [RZ-LGR Procedure](#). RZ-LGR version 6 covers **27 scripts**.
 - At the second level, [Reference LGRs](#) were developed by ICANN in collaboration with the language or script communities. Registry operators can reference to these Reference LGRs while designing their IDN tables. ICANN published **28 script-based, 32 language-based** Reference LGRs.

Delegated IDNs at Top-Level

	ASCII TLDs	IDN TLDs	Total TLDs
ccTLD	248	61	309
gTLDs	1,0411	90	1,131
Total	1,289	151	1,440

- The 151 IDN TLDs delegated, as of June 2025, representing 23 scripts, 37 languages:
 - Arabic, Armenian, Assamese, Bangla, Belarusian, Bengali, Bulgarian, Chinese, Georgian, Greek, Gujarati, Hebrew, Hindi, Japanese, Kannada, Kashmiri, Kazakh, Korean, Lao, Macedonian, Malay, Malayalam, Mongolian, Oriya, Persian, Punjabi, Russian, Sanskrit, Santali, Serbian, Sindhi, Sinhalese, Tamil, Telugu, Thai, Ukrainian, and Urdu.

IDN Registration under gTLDs by Script



- As of March 2025, there were 1.396 million IDN registrations under all gTLDs
- A total of 49% percent of IDN registrations are in the Chinese script, followed by 28% percent of registrations in the Latin script.

Introduction to Universal Acceptance (UA)

Seda Akbulut
UA Program Sr. Manager
ICANN

Agenda

- Universal Acceptance (UA) Overview
- Benefits of UA
- Call to Action
- UA Day 2026
- Questions and Answers (Q&A)

Universal Acceptance Overview

UA-ready

http://soaps.organic

Welcome to organic

SOAP

We make the best soap in the world. It's 100% organic.

http://tokyo.ストア

TOKYO

当社の製品を購入します

http://bank.com

Bank

Email

 Email validated.
Account created.

Not UA-ready

http://soaps.organic



http://tokyo.ストア



http://bank.com

Bank

Email

 Not a valid email address.

UA-Readiness

Goal

All domain names and email addresses work in all software applications.



пример.рф

Internationalized
Domain Names
(IDN)



site.example

New gTLDs



名称@网站.域名

Email Address
Internationalization
(EAI)



Accept



Validate



Process



Store



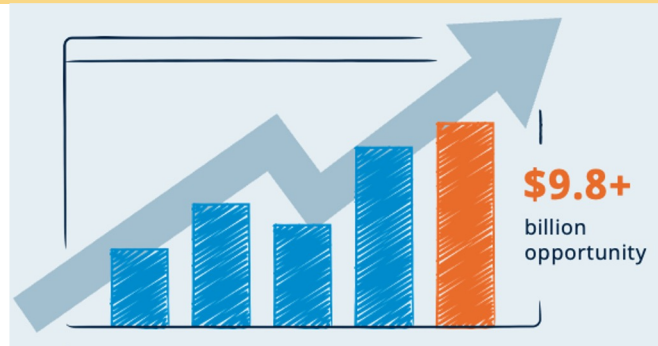
Display

UA Benefits

If left unaddressed, businesses and organizations face the potential of lost revenue, lost customer satisfaction and more.

Ensuring UA-readiness will:

- Connect the next billion Internet users
- Bring better accessibility to the world via internationalization of the Internet
- Enable cultural, social, career and economic benefits
- Deliver a better user experience, resulting in customer satisfaction and retention
- Accomplish the responsibility to comply with standards



To learn more:
<https://www.icann.org/ua-training-en>

Call to Action

For Businesses:

- Assess if your business' systems are compliant with UA standards.
- Make your IT systems / website / email server UA-ready. See [UASG026](#) UA-Readiness Framework, [free code samples](#), [EAI Self-Certification Guide](#), and <https://github.com/icann/eaiselfhost> to run an EAI mail system.

For Governments:

- Encourage the UA implementation by including [UA requirements](#) in government procurements.

For Academia:

- Integrate the [UA Curriculum](#) by updating the courses in the relevant degree program(s).



Be a Part of UA Day 2026

- To be hosted from 25 March to 30 May 2026.
- The events will be published in December 2025.
- Aiming to have 25-30 events focusing on UA adoption.
- For more details visit universalacceptance.day.
- Tentative timeline:



UA Day
#Internet4All

Join a UA Day event near you!



**UA Day Events
between
25 March and
30 May 2026**

ICANN84 IDN-UA-Related Sessions

For more sessions and discussions related to IDNs and UA, please join ICANN84:

Monday, 27 October
2025

[Roadmap Towards UA Adoption](#)

Tuesday, 28 October
2025

[String Evaluations in the Next Round: DNS Stability, String Similarity, and IDN Variant Justification](#)

ICANN Webpage and Social Media Links



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