



IDN TLD Program at ICANN

Sarmad Hussain | Director, IDN Programs, ICANN | 24 May 2017

Introduction - ASCII and IDN TLDs





Syntax of ASCII TLD Use only Letters [a-z]

Syntax of IDN TLD
U-Label, constrained by
the "letter" principle

What is a "letter" in a script? Are all "letters" unique in a script?



Root Zone LGR Procedure

Generation Panels

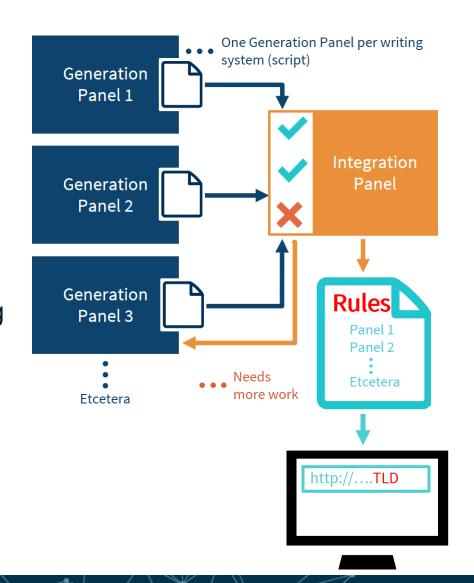
 Generate proposals for script specific LGRs, based on community expertise and requirements

Integration Panel

 Integrates them into common Root Zone LGR while minimizing the risk to Root Zone as shared resource

Label Generation Rules (LGR)

- Which labels are permissible
- Which variant labels exist
- Which variant labels may be allocated

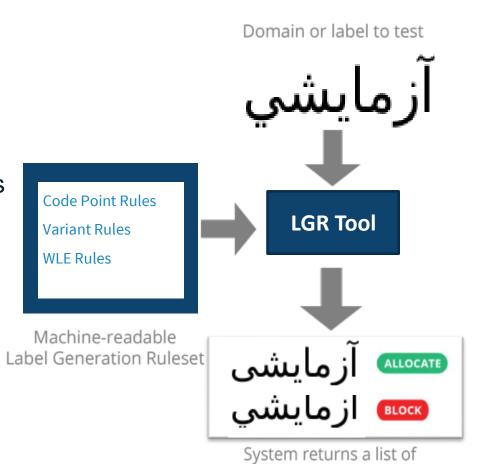




Ļ	060	061	062	063	064	065	066	067	068	069	06A	06B	06C	06D	06E	06F		075	076	077		08A	08B	08C	08D	08E	08F
0	0600	් 0610	ي 0620	خ 0630	0640	0650	0660	0670	<u>ٍ</u> ‱	3	ڠ 06A0	0680	5 06C0	<u>ې</u>	0 06E0	06F0	0	0750	<u>و</u> 0760	ش 0770	0	پ 08A0					ර 08F0
1	0601	් 0611	پ 0621	ر 0631	ن 0641	0651	0661	0671	حً	ر 0691	06A1	06B1	~ 06C1	ي	ै 06E1	06F1	1	ث 0751	0761	ڑ 0771	1						් 08F1
2	0602	ි 0612	آ 0622	خ 0632	ق 0642	0652	Y 0662	آ 0672	0682	0692	ب 06A2	06B2	% 06C2	0602	် 06E2	Y 06F2	2	<u>ب</u> 0752	5 0762	0772	2	<u>څ</u>					9 08F2
3	وبي	් 0613	0623	س 0633	<u>حا</u> 0643	~ 0653	0663	0673	<u>ج</u> 0683)	ب 06A3	چ 0683	2 06C3	0603	ن وووع	٣	3	0753	3 0763	0773	3	ظ 08A3					08F3
4	0604	ි 0614	ۇ 0624	ش 0634	ل 0644	0654	٤ 0664	0674	₹ 0684	0694	ث 06A4	06B4	9 06C4	 06D4	⊙ 06E4	€ 06F4	4	<u>ت</u> 0754	0764	0774	4	ث 0844				0864	08F4
5		ឺ 0615	0625	ص 0635	0645	0655	0665	ر 0675	<u>څ</u>	ڕ	06A5	Ŭ 0685	06C5	Ø 06D5	9 06E5	△ 06F5	5	0755	0765	0775	5	ق 08A5				0865	08F5
6	0606	<u>ال</u> 0616	ئ 0626	ض 0636	ن 0646	0656	0666	و 0676	Ç 0686	<u>ر</u> د 0696	ٿ 06A6	0686	ۆ 0606	ے ا 0606	ے 06E6	9 06F6	6	ٽ 0756	0766	0776	6	ئ 0846				08E6	08F6
7	0607	් 0617	0627	ط 0637	هر 0647	0657	V 0667	وُ 0677	<u>a</u>	ز 0697	ن 06A7	0687	06C7	<u>ند</u> 0607	€ 06E7	V	7	0757	ن 0767	0777	7	6 08A7				0867	08F7
8	س 0608	Ó 0618	ب 0628	ظ 0638	9 0648	0658	A	ئى ₀₆₇₈	دٌ 0688	ژ ‱	ث 06A8	06B8	06C8	Ó 0608	06E8	∧ 06F8	8	0758	نً 0768	0778	8	ئ 888				G OSES	08F8
9	/ 	် 0619	6	<u>ح</u> 0639	ى 0649	0659	0669	ٹ 0679	3 0689	ڙ ‱	S 06A9	ن 0689	0609	06D9	06E9	9 06F9	9	0759	0769	0779	9	ي ٥٨٩٥				08E9	08F9
A	/ 060A	О 061A	ت 062A	غ 063A	ي	065A	'/. 066A	ث 067A	ج 068A	بن 069A	O6AA	ن 06BA	ق 06CA	ح ٥٥٥٥	© 06EA	ش 06FA	Α	075A	ئ 0764	077A	А	OBAA				08EA	OBFA
В	<u>ن</u> 060B	6 061B	ث 062B	3 063B	0648	065B	ر 066B	پ 0678	جُ 0688	069B	S 06AB	ڻ 06BB	ۇ 06CB	OEDB	Ů 06EB	06FB	В	0758	0768	077B	В	08AB				OBEB	OBFB
С	6 060C	ALM 061C	<u>ج</u> 062C	چ 063C	064C	065C	, 066C	ټ 0670	3 068C	069C	<u>خ</u> 06AC	ڼ _{06BC}	ی	Ő 06DC	Ů 06EC	بغ _{OGFC}	С	075C	076C	077C	С	ORAC				OREC) Meets
D	060D			ؿ 063D	064D	065D	★ 066D	<u>ٿ</u>	968D	069D	<u>څ</u> 06AD	ڻ _{06BD}	ۍ 06CD	OGDD	OGED,	ii 06FD	D	075D	0760	077D	D					08ED	OSFD
E	060E	& 061E	<u>خ</u>	ى 063E	064E	065E	ص 066E	پ 067E	3 068E	069E	علي OGAE	O6BE	ێ 06CE	Ó O6DE	S 06EE	OGFE	E	075E	7. 076E	ش 077E	E					OSEE	OBFE OBFE
F	600F	5 061F	3 062F	ؿ ₀₆₃ ۶	064F	065F	066F	ث 067F	دٌ 068F	ظ 069F	5 06AF	خ 06BF	و 06CF	Ů OEDF	OGEF	06FF	F	è 075∓	7.076F	<u>길</u> 077F	F						

LGR Toolset (beta)

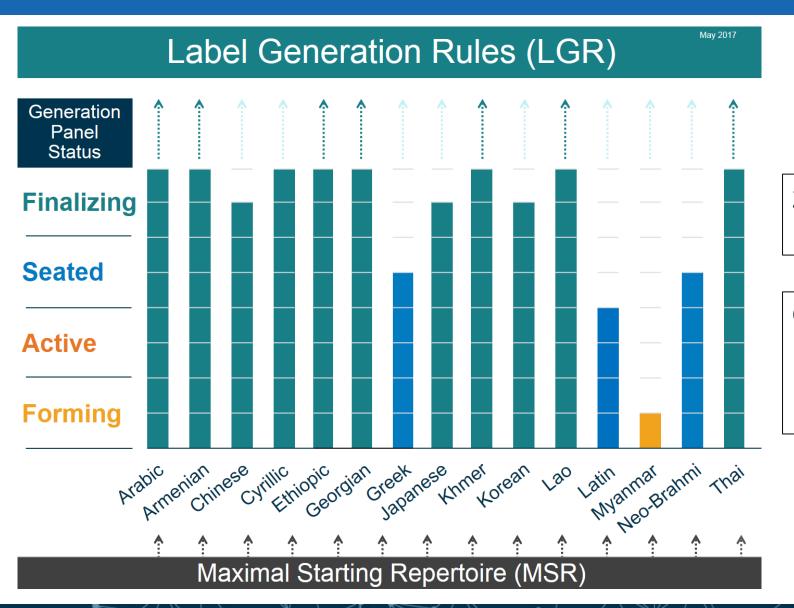
- Label Generation Rulesets (LGRs) used to generate domain name labels, per <u>RFC 7940</u>
- LGR Toolset allows for the following:
 - Create, use and manage LGRs
- Online beta deployment
 - Visit https://lgrtool.icann.org/
- Open source package(s) release
 - Released at github: <u>lgr-core</u>, <u>lgr-django</u>, <u>munidata</u>
- <u>User guide</u> available for further details



variants based on the rules



Status of LGR Development



28+ Scripts 19+ GPs

Other:

- Hebrew
- Sinhala
- Thaana



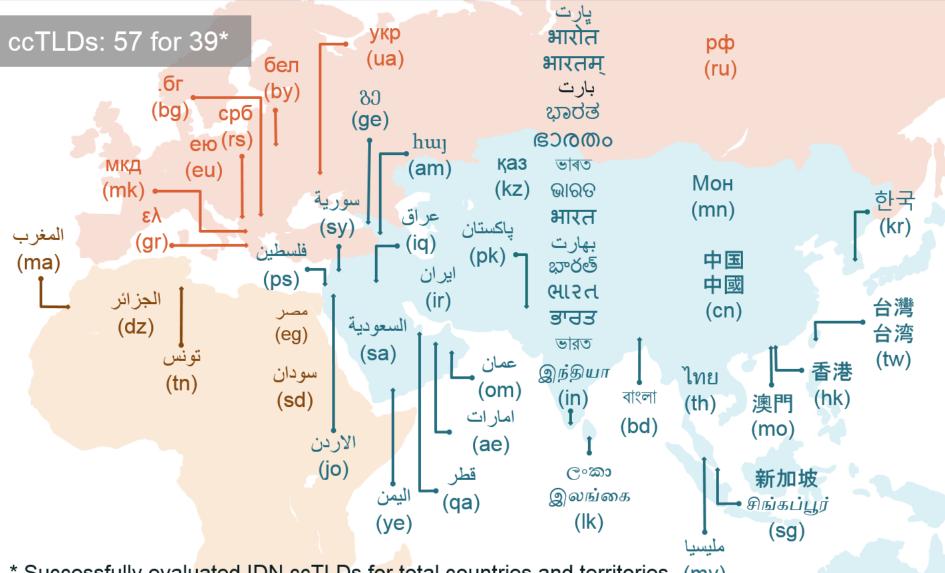
Scope of Neo-Brahmi GP

On 15 May 2015 the Neo-Brahmi script community submitted to ICANN the <u>Proposal for Generation Panel for Neo-Brahmī</u> <u>Scripts Label Generation Ruleset for the Root Zone</u>, covering Bengali, Devanagari, Gujarati, Gurmukhi, Kannada, Malayalam, Oriya, Tamil and Telugu scripts

- For each script
 - Cover all languages with widespread, everyday general use Cover all geographical regions where the scripts are used
 - Ensure that technical criteria is met along with the socio-linguistic requirements



IDN Country Code Top-Level Domains



* Successfully evaluated IDN ccTLDs for total countries and territories (my



How to Get Involved?



Volunteer for your script Generation Panel (GP)

To contribute expertise, contribute to the GP for your script. You can get involved by simply emailing your CV and a brief statement of interest to IDNProgram@icann.org



Review work through public comments

Sign up for the IDN mailing list vip@icann.org (to sign up, visit https://mm.icann.org/listinfo/vip) and participated in the review of IDN work being done at ICANN through the public comments



Keep yourself updated

Attend regular IDN Program Update sessions at ICANN meetings and sign up on the IDN mailing list vip@icann.org to get updates on the IDN Program at ICANN



Engage with ICANN



Thank You and Questions

Reach us at: IDNProgram@icann.org

Website: icann.org/idn



twitter.com/icann



gplus.to/icann



facebook.com/icannorg



weibo.com/ICANNorg



linkedin.com/company/icann



flickr.com/photos/icann



youtube.com/user/icannnews



slideshare.net/icannpresentations

