

#### Agenda

- Welcome 5 min
- Community updates:
  - Chinese Prospective Generation Panel 15 min
  - Japanese Prospective Generation Panel 15 min
  - Korean Prospective Generation Panel 15 min
  - CJK Coordination Report 15 min
  - Neo-Brahmi Prospective Generation Panel 15 min
  - Arabic Generation Panel 15 min
- LGR project mailing lists 5 min
- Discussions and Q&A- 20 min



# Community Work

Chinese Prospective

Generation Panel



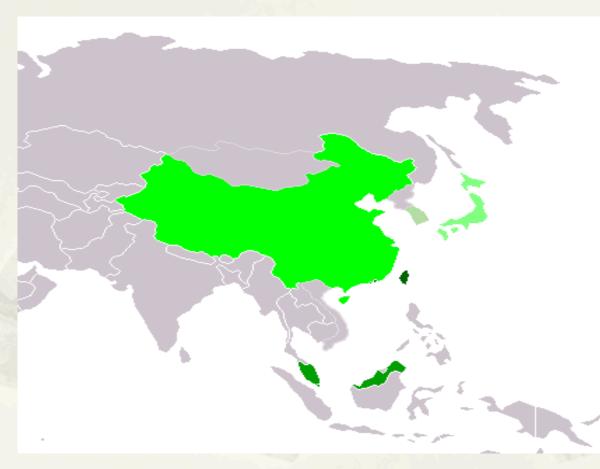
# Updates on Chinese Generation Panel

Wang Wei ICANN 50<sup>th</sup>, London 25<sup>th</sup> June 2014

### **Evolution of Chinese Character**

1600	~ 1100	ВС	221BC		200 AD			
	oracle bone aguwen	greater seal dazhuan	lesser seal xiaozhuan	clerkly script lishu	standard script kaishu	running script xingshu	cursive script caoshu	modern simplified <i>Jiantizi</i>
rén (*nin) human	7	7	R	人	人	1	4	人
nǚ (*nra?) woman	#	虫	帮	*	女	t	do	女
ĕr (*nha?) ear	3	B	Ą	耳	耳	耳	A	耳
mã (*mrā?) horse	罗	*	易	馬	馬	馬	3	马
yú (*ŋha) fish	옞	爾	魚	魚	魚	鱼	鱼	鱼
shān (*srān) mountain	W	₩	W	٨	山	2,	וט	山
rì (°nit) sun	Θ	Θ	0		日	回	13	日
yuè (°ŋot) moon	D	D	P	月	月	A	B	月
yŭ (*wha?) rain	M	m	雨	雨	丽	牵	P	雨
yún (*wən) cloud	2	ਓ	零	雲	雲	A Z	センス	굸
Totally 100,000 Chinese Characters								

# Countries with Significant User Communities for Chinese Script



- · hanzi in Chinese
  - Traditional Chinese
    - Taiwan
    - Macau
    - Hong Kong
  - Simplified Chinese
    - · Mainland China
    - Singapore
  - TC & SC
    - Malaysia
- · kanji in Japanese
- · hanja in Korean

Chinese script is the logogram used in the writing of Chinese and some other Asian languages

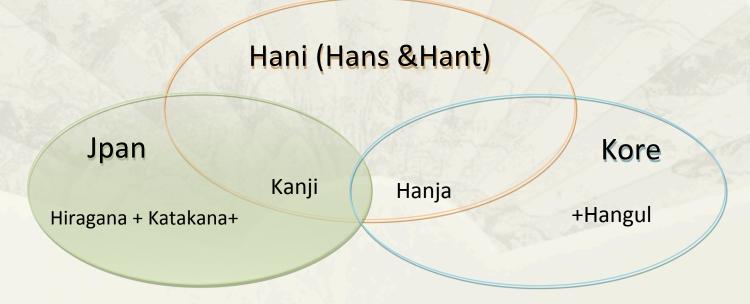
# Target Script and Scope (1/3)

#### **Target Script: Hani**

ISO 15924 code: Hani

ISO 15924 no.: 500

English Name: Han (Hanzi, Kanji, Hanja)



# Target Script and Scope (2/3)

#### **CJK** and Han Unification:

CJK Unified Ideographs: 4E00-9FFF

CJK Unified Ideographs Extension A: 3400–4DBF

CJK Unified Ideographs Extension B: 20000-2A6DF

CJK Unified Ideographs Extension C: 2A700-2B73F

CJK Unified Ideographs Extension D: 2B740-2B81F

- MSR-1 includes CJK, CJK-A and a minor part of CJK-B.
- The complete character set for the Chinese script in the IANA IDN tables from .CN, .TW, and .JP all fall in the ranges of CJK and CJK-A.

# Target Script and Scope (3/3)

#### **Best Practice: CDNC Character Set and Guide Rules**

- In 2004, according to RFC 3743 and RFC 4713, CDNC submitted to IANA a unified Chinese Character Set (19320 characters).
- CDNC put forwards its guild rule for SLD registration, applied on CN, TW and etc.
  - The IDL and its Variant Labels SHOULD belong to the same registrant.
  - The Simplified Chinese form and Traditional Chinese form of the applied-for IDL
     SHOULD be resolvable simultaneously or non-resolvable at all.
- In 2013, among 76 Chinese new gTLD applications, 32 applications are announced to abide by CDNC Character Set and Guide Rules.

Owing to the above factors, CGP would like to propose that CDNC Character Set be treated as the initial character set of CGP.

# **Initial Composition of the Panel**

- \* The CGP gathers 13 experts from a variety of backgrounds (bringing varied linguistic and technical perspectives) from 7 different countries/ regions, including:
  - \* national and regional policy makers.
  - members from technical community directly working with the DNS (e.g. registries and registrars), security, academia (technical and linguistic).
  - \* members of community based organizations.
  - \* members with experience of local language studying.

Name	Designation	Organization	Country/Region	Language Expertise
Chris DILLON	Mr	University College London	UK	Chinese/Japanese/ Korean
Chao QI	Mr	CNNIC	China	Chinese
Di MA	Dr	ZDNS	China	Chinese
Guoying LI	Dr	Beijing Normal University	China	Chinese
Jiagui XIE	Mr.	CONAC	China	Chinese
Joe ZHANG	Dr.	Beijing UniHan Digital Technology Co., Ltd.	China	Chinese Japanese Korean
Jonathan SHEA	Mr	HKIRC	Hong Kong	Chinese
Joseph YEE	Mr	Afilias	Canada	Chinese, (Familiar with Japanese)
Kenny HUANG	Dr	TWNIC	Taiwan	Chinese
Linlin ZHOU	Ms	CNNIC	China	Chinese
Nai-Wen HSU	Dr.	TWNIC	Taiwan	Chinese
Ryan TAN	Mr.	SGNIC	Singapore	Chinese
Wei WANG	Dr.	CNIC	China	Chinese
Xiaodong LEE	Dr.	CNNIC	China	Chinese
Zheng WANG	Dr.	CONAC	China	Chinese
Zhiwei YAN	Dr.	CNNIC	China	Chinese (Familiar with Japanese)

# Relationship with Past Work

#### \* From JET to CDNC to VIP to CGP

- \* JET: April, 2004, produced RFC 3743
  - \* It includes various concepts for variant handling, such as bundling, atomic IDL Package, and reserved variants.
  - \* It also defines a standard table as well as an algorithm to generate the preferred variant and reserved variants.
- \* CDNC: TC-SC Equivalence
- \* VIP: Chinese Case Study Report
- \* CGP: variants and label rules for Root Zone

#### **Work Plan**

- \* Four stages (< ICANN51 L.A. in October 2014):
  - \* 1. Finalization of Code Points
  - \* 2. Finalization of Variants
  - \* 3. Finalization of Whole Label Rules
  - 4. Finalization of LGR Documents for Chinese Script and Submission to ICANN
  - \* 14th Mar, 1st joint meeting of CGP and CDNC
  - \* 2<sup>nd</sup> Apr, proposal submitted to ICANN (comments feedbacked on 3<sup>rd</sup> May)
  - \* 13<sup>th</sup> May, principle of character set submitted to ICANN
  - \* 29th May, 2nd joint meeting of CGP and CDNC

# Challenges

- \* Character Reduction and Extension
- \* Coordination between C J K
  - \* Character, variant, rule

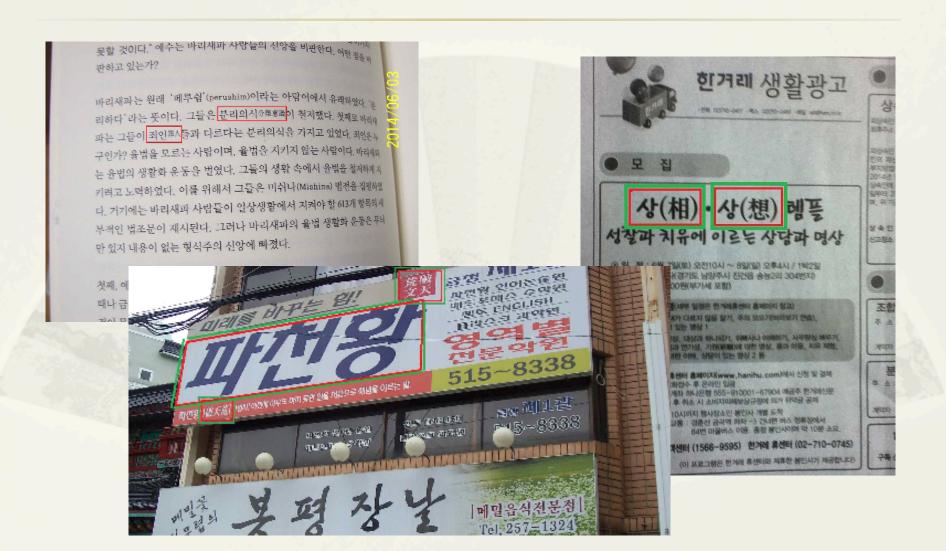
#### **Reduction & Extension**

- \* preliminary question:
  - \* Will The requirement of generation rules for root zone be different from rules applied in 2nd layers (e.g., RFC3743 for CJK registration)?
  - \* Will future character extension be allowed after LGR finished the current work?

# Some Suggestions

- \* The obsolete Korean Lidu be removed from the CGP repertoire.
- \* Remove the Han Radicals / Strokes that are not regarded as independent Hanzi.
- Remove some Kanji only used in J script context.
- \* Include more local Hongkong character into CGP repertoire.





- Different language panels (C, J and K) have different views about the Chinese characters and variants:
  - \* Chinese: Equivalent mapping between SC and TC and generic variants. (reflected in the CDNC character table)
  - \* Japanese: It is appropriate to distinguish new and old forms (of Kanji) as different and independent characters instead of handling them as variants.
  - \* Korean: Its IDN policy does not allow Hanja as reflected by the language table it submitted to IANA (Hanja are no longer widely used in ROK)

<sup>\*</sup> Then a coordination scheme between different panels is needed (especially between CGP and JGP).

# Root Zone IDNA Label LGR Development and Maintenance Appendix F

Code point	Allocatable variant	Blocked variant	Tag
恋 U+604B	戀 U+6200	-	und-hani-TBD-root
恋 U+604B	-	戀 U+6200	und-jpan-TBD-root
戀 U+6200	恋 U+604B	-	und-hani-TBD-root
戀 U+6200	-	恋 U+604B	und-jpan-TBD-root
愛 U+611B	爱 U+7231	-	und-hani-TBD-root
愛 U+611B	-	爱 U+7231	und-jpan-TBD-root
爱 U+7231	愛 U+611B	-	und-hani-TBD-root

- \* In the last CDNC meeting in Shanghai, a coordination scheme was proposed by the ICANN expert:
  - \* Each CJK panel creates an LGR and each LGR includes a repertoire and variants.
  - \* If an LGR includes Han characters, the variant mappings must agree for all three panels.
  - \* The variant types may be different (blocked or allocatable), the variant types do not have to agree across LGRs
- \* C and J (and K) need to work closely on the above principle.

谢 謝 謝 Thanks

wangwei@cnic.cn

#### **About CDNC**

- > Evaluates all Chinese domain name compliance with international criterion.
- Establish the standards for Chinese domain name and corresponding regulation on Chinese domain name registration.
- Coordinates the operations and management of Chinese domains in various countries or regions,
- Collaborates with all corresponding international organizations on Chinese domain names











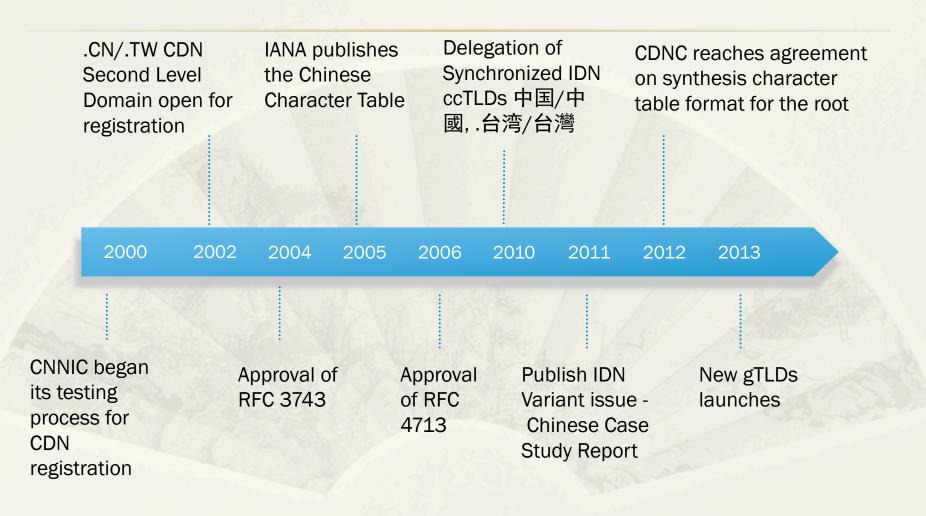








#### More 10 years Experience On Variant Issues



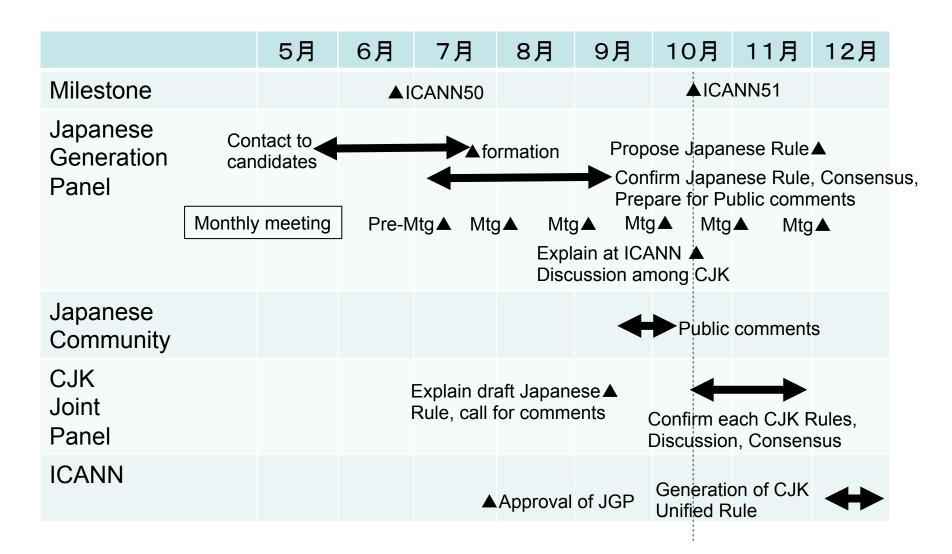
# Community Work Japanese Prospective

Generation Panel





# JGP Schedule (draft)



# Community Work

Korean Prospective

Generation Panel



# The Status of KLGP (Korean Label Generation P anel)

Jun. 25, 2014. ICANN #50, London, UK <a href="mailto:gimgs@pnu.kr">gimgs@pnu.kr</a>, PNU

choimh@kisa.or.kr, KISA

#### Contents

- The status of KLGP
- The result of KLGP Meeting
- CJK Meeting In Shanghai
- Issues
- V Future Plan



### The Status of KLGP

#### I. The Status of KLGP

#### Members of Korean Label Gen. Panel

Classification	Name	
Chair (Linguistic Expert)	Kyongsok Kim	
Policy Expert	Youngeum Lee	
Policy Expert	Dongman Lee	
Linguistic Expert	Kyungran Kang	
Language Expert	Yongju Hwang	New Member
Community	<b>Eunghwi Jeon</b>	New Member
Community	Yangwoo Ko	
Community	YJ Park	
Registry	MinJung Park	
Registry	Myunghee Choi	

Still recruiting members who have expertise in culture.



# The Result of KLGP Meeting

#### II. The result of KLGP Meeting (jut once)

#### 1. The Scope of KLGR?

- Hangul Syllables
  - seems to be No Variant issues
  - Range : AC00-D7A3 (11,172 syllables)
- Hanja (Hanzi, CJK Ideographs) ?
  - probably need to have a pub. hearing

#### II. The result of KLGP Meeting (jut once)

#### 2. The Review of MSR-1 (1)

Hangul: Hangul syllables(11,172)

#### 5.14 Korean Jamo and Hangul

Modern Korean is written with 11,172 Hangul syllables, which, in turn are combinations of elements, called Jamo. The MSR contains all modern Hangul but none of the Jamo characters, which are only needed for non-modern Hangul.

The modern Hangul for the MSR are listed in a separate PDF file "Maximal Starting Repertoire – MSR-1: Annotated Repertoire Tables, Hangul".

#### II. The result of KLGP Meeting (jut once)

#### 2. The Review of MSR-1 (2)

 Han Script (CJK Unified Ideographs, CJKU main, CJKU ExtA, and CJKU ExtB; IICORE)

#### 5.13 Han Ideographs

In creating the MSR, the Integration Panel reviewed existing IDN tables for CJK domains and compared them to various subsets, including IICORE, defined in the Unicode Consortium's Unihan database [UAX38]. From this analysis it appears that a superset of certain IDN tables plus the IICORE is most likely to produce a starting set that satisfies the requirement of being larger than the expected final LGR, while at the same time not being overly inclusive.

Chinese Characters (Han ideographs) for the MSR are listed in a separate PDF file "Maximal Starting Repertoire – MSR-1: Annotated Repertoire Tables, Han". This file uses a different convention for

# II. The result of KLGP Meeting (jut once)

# 2. The Review of MSR-1 (3)

 [Question] How was the list of Han charact ers in MSR-1 created?



# CJK Meeting in Shanghai

# III. CJK Meeting In Shanghai

# 1. The Overview of CJK LGP Meeting

- Meeting: CGP (Chinese Generation Panel)
- Date: 2014. 5. 29.
- Place: Shanghai Branch of Chinese Academy of Science Building No.1, 2nd Floor Meeting Room
- Participants: about 20 people (Prof. Kyongsok K im from Rep. of Korea attended the meeting)
  - Japan and USA by teleconferencing

# III. CJK Meeting In Shanghai

# 2. The detail of CJK Meeting

- MSR-1 Review
- The Status of Hanja Domain in Korea
  - -In Korea, we don't use Chinese (Han script) under '.한국(.xn--3e0b707e, Korean Top-level IDN)':
  - e.g., "漢字.한국" not allowed currently.
- KLGP will continuously participate in the C JK LGP meeting.

# III. CJK Meeting In Shanghai

# 3. Idu (89/91 chars)

- Some Idu chars are included in IICORE.
- For most Idu chars, K (South Korea), KP (Nor th Korea), and G (China) columns are filled in . For some chars, T (19) and H (14), J (5), an d V (2) columns are also filled in.
- Need to keep IICORE chars
- Suggest NOT to exclude Idu from MSR-1
- Note. The term "Idu" does not show up in ISO /IEC 10646, 3ed:2012 anymore.



# 1. KLGR Scope?

- Need more time to consider the KLGR scope.
  - KLGR: Hangul only?& participate in CJK LGP
  - KLGR: (Hangul + Hanja)?& participate in CJK LGP

# 2. Multi-script IDN TLD?

- Multi-script IDN TLD allowed?
  - E.g., ".한國", ".韓국", etc (Hangul + Hanja)

# [Ques] Can KLGR limit the Hangul TLD ?

- Allowed chars in Hangul TLD must be the same a s those in the second level domain (2LD) under ". kr"/".한국" ?
- 2LD under ".kr"/".한국": composed of complete Hangul syllables (11,172), English letters (a~z), digit s (0~9), and hyphen (-).
- No other chars allowed in TLD having Hangul?

## 3. Members of KLGP

– How to make North Koreans involved in KLGP?

– Making North Korean refugees in South Korea involved in KLGP?



## V. Future Plan

To hold KLGP meetings

To hold a public hearing

To draft KLGR

# Thanks.



# Community Work CJK Coordination Report



# Ruling The Root

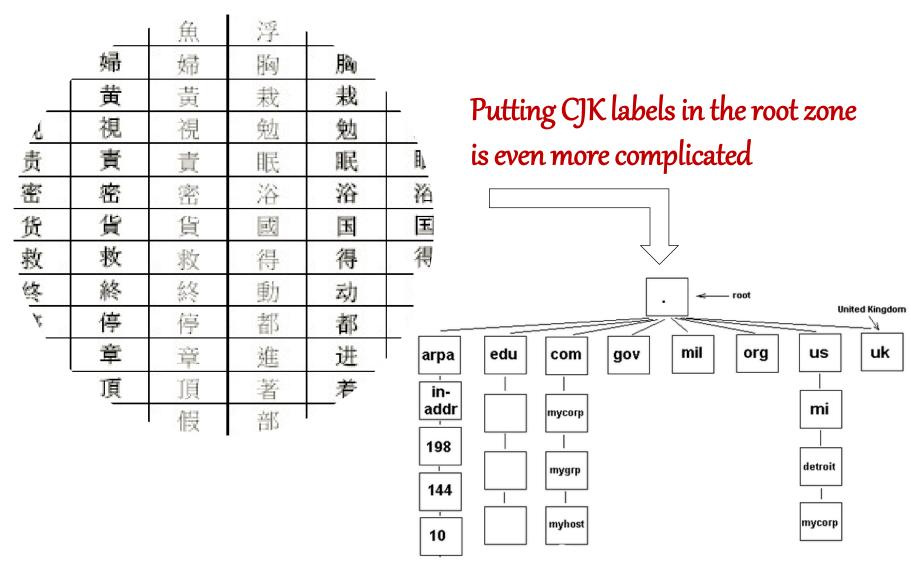
# CJK Rules For The Root Zone

Kenny Huang, Ph.D. 黃勝雄博士

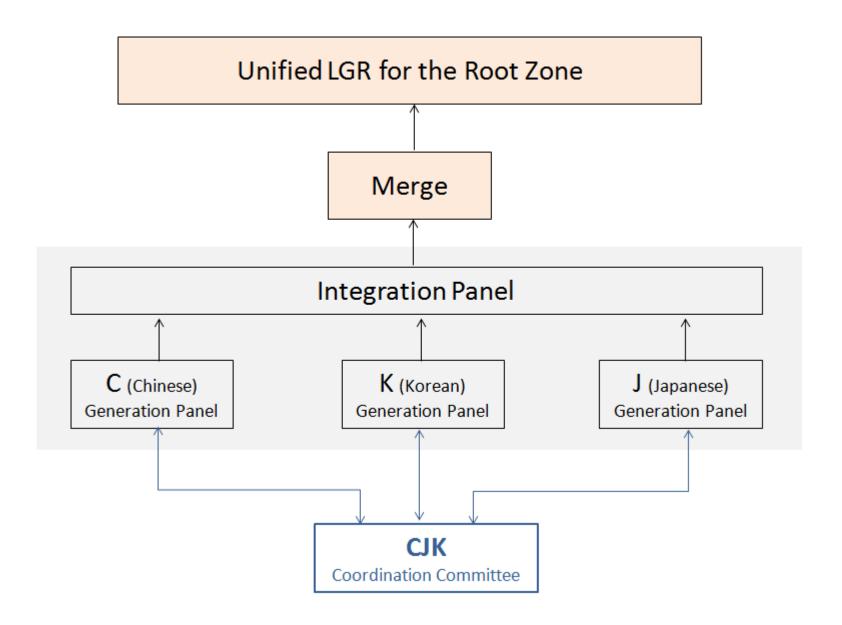
Member, CDNC / CGP Co-author, RFC3743 IETF Member, Executive Council, APNIC Member, Board of Directors, TWNIC huangksh@gmail.com 2014.Jun



# **Problem: CJK Is Complicated**



# **Institutionalized Problem Solving: Structure**



## **Constraints for CJK LGR**

#### **Independent Tasks**

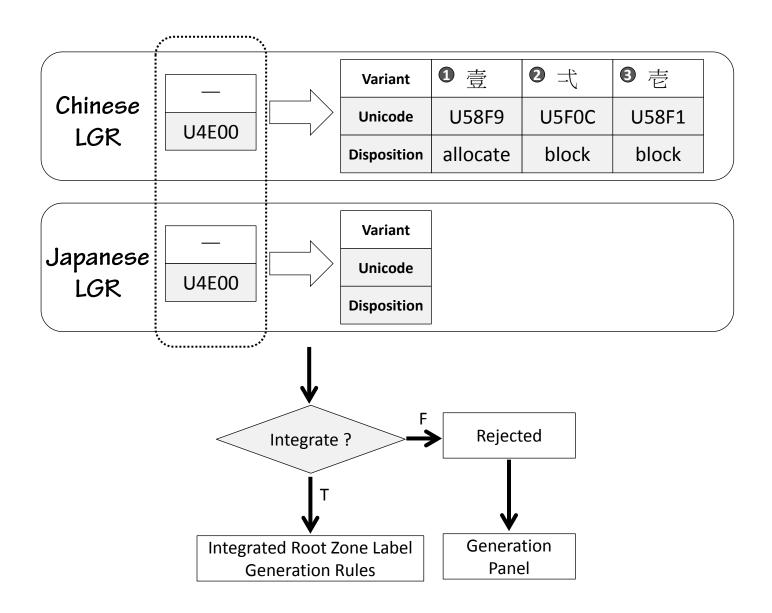
- ✓ Each CJK Panel creates an LGR
- ✓ Each LGR includes a repertoire and variants
  - ➤ Define labels permission
  - ➤ Define variants labels
  - ➤ Assign dispositions
    - Allocatable
    - Block

#### **Coordination Tasks**

- ✓ If an LGR includes Han characters:
  - ➤ The variant \*mappings\* must agree for all the panels
  - ➤ The variant \*types\* may be different
  - The repertoires may be different

<sup>\*</sup>Presented by Lee Han Chuan & IP, Shanghai 2014 May 29

# **Overlap Case Illustration**



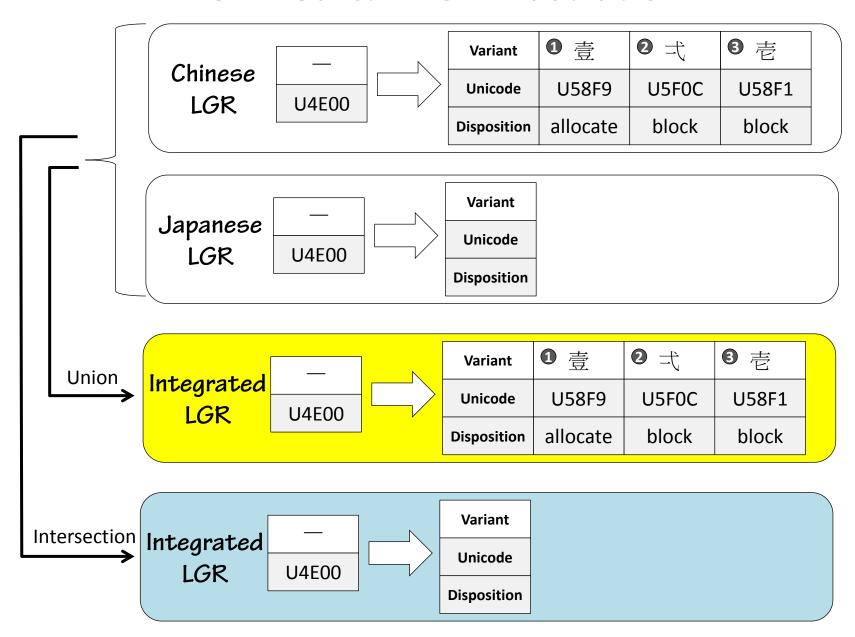
# **High Level Conflict Strategies**



# R<sub>cik</sub> Conflict For Label X

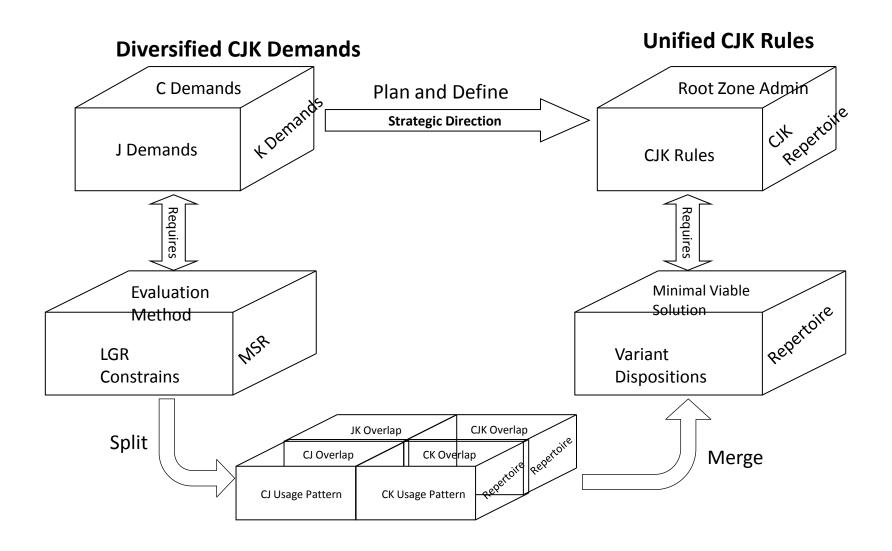
ID	Strategy	Pros	Cons	Rank
1	Adopt X Abandon R <sub>cjk</sub>	Permit X	No label rule	
2	Adopt X Intersection $\cap$ ( $R_{cjk}$ )	Permit X Permit ∩(variants/disp)	Rules changed	
3	Adopt X Union $\bigcup$ ( $R_{cjk}$ )	Permit X Permit ∪ (variants/disp)	Rules changed	
4	Abandon X and $R_{cjk}$	No conflict	Label not available	
5	Adopt rules based on frequency of use	Fair & scientific approach	Rules changed; fairness doesn't mean appropriate	

## **Unified CJK LGR Illustration**



# **CJK Integration Methodology**

Divide & Conquer (D&C)



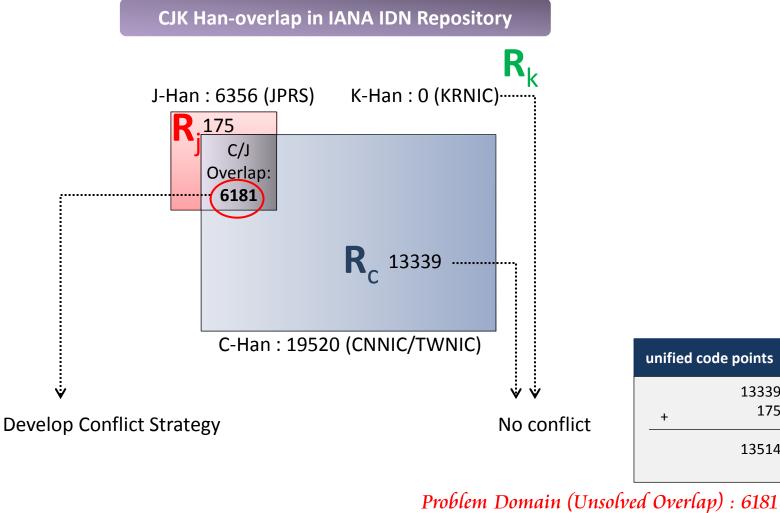


Chinese LGR

Japanese LGR

Korean LGR

# **Splitting Non-overlapping Code Points From** Repertories

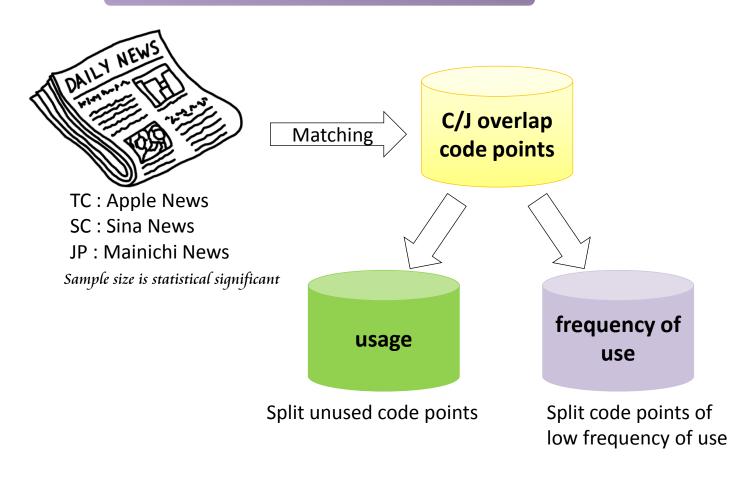


13339 175

13514

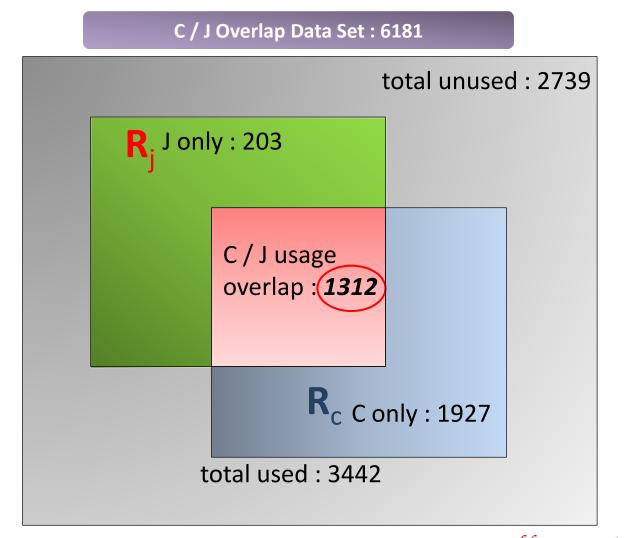
# **Engineering Design**

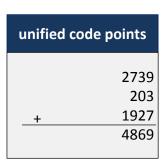
#### **Computation for Word Usage and Frequency**





# **Splitting Unused Code Points from The Overlap**

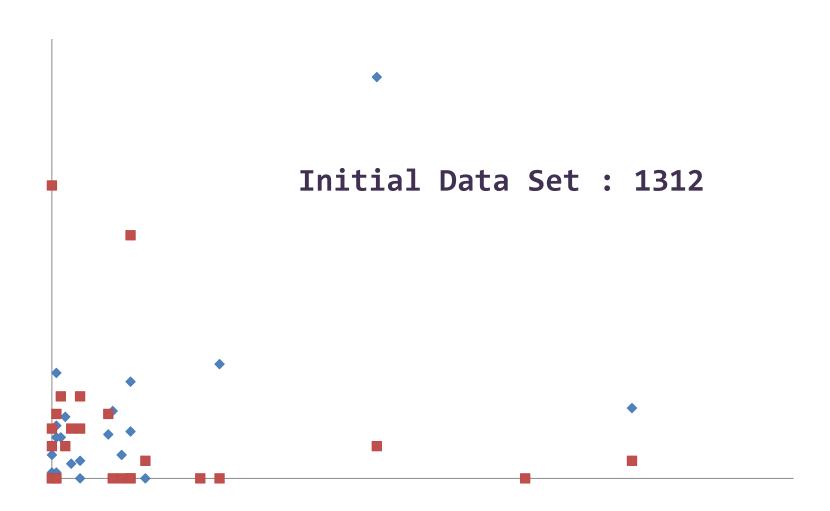




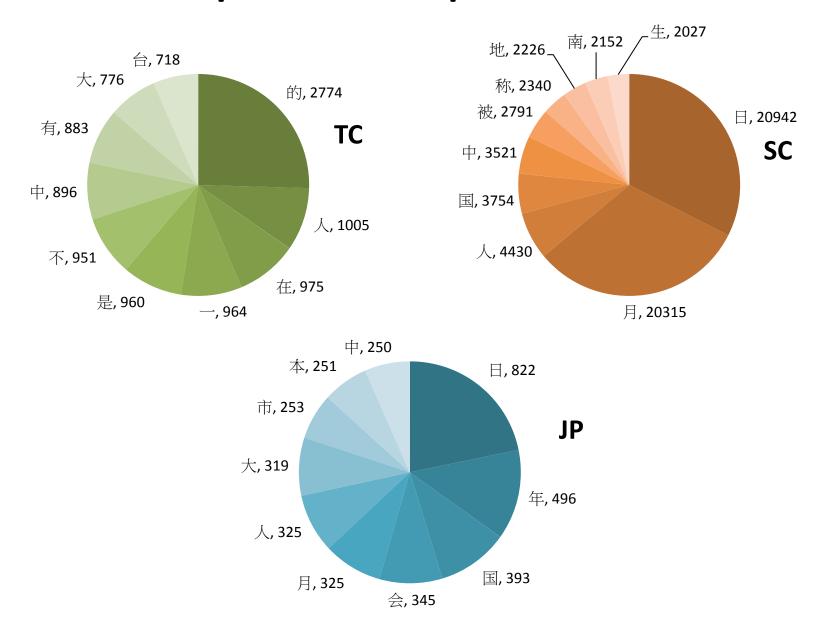
Problem Domain (Unsolved Overlap): 1312



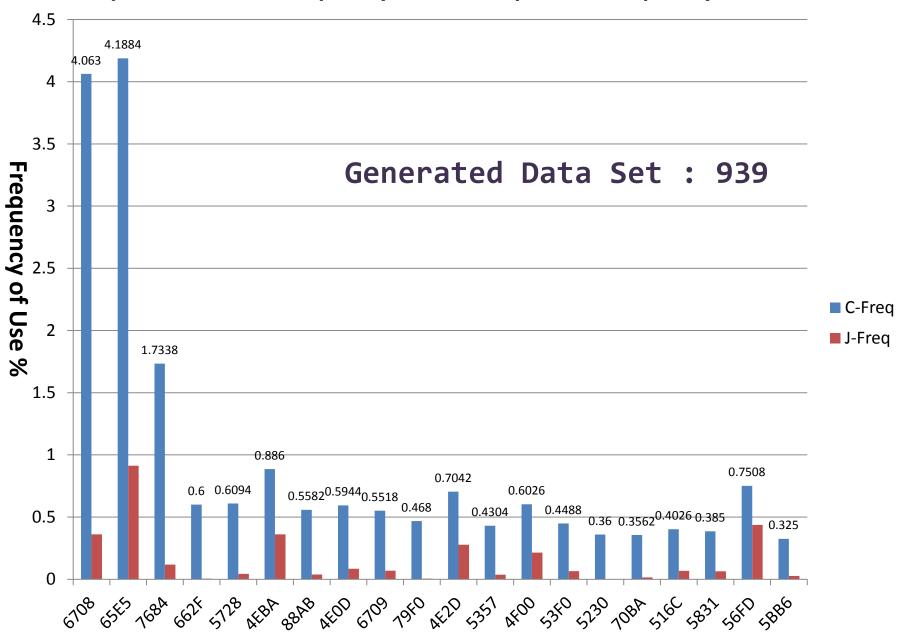
# **Computing Frequency of Use of Code Points**



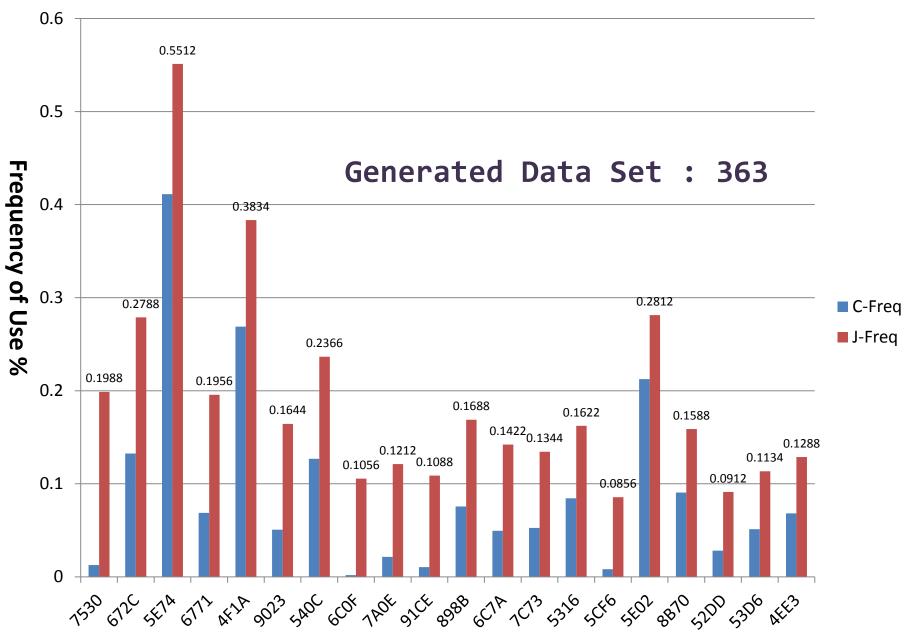
# **Top 10 Most Popular Words**



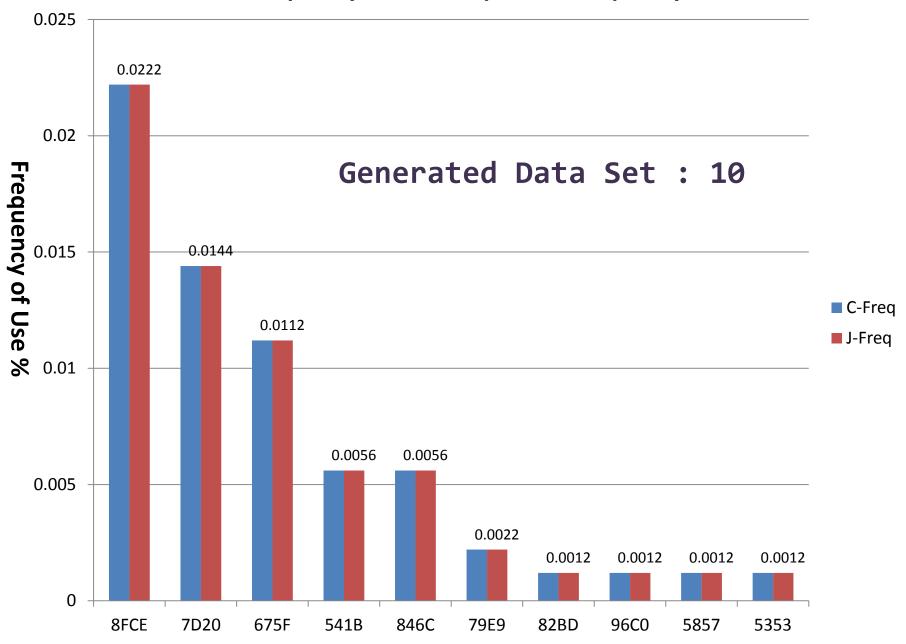
**Top 20: Chinese Frequency of Use > Japanese Frequency of Use** 



**Top 20: Chinese Frequency of Use < Japanese Frequency of Use** 

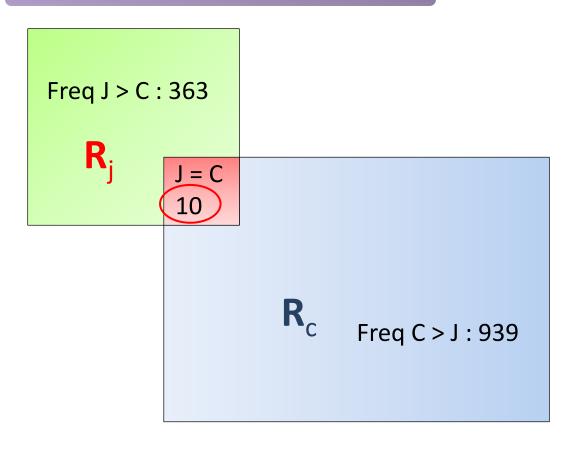


#### **Chinese Frequency of Use = Japanese Frequency of Use**



# Frequency of Use Reassembly

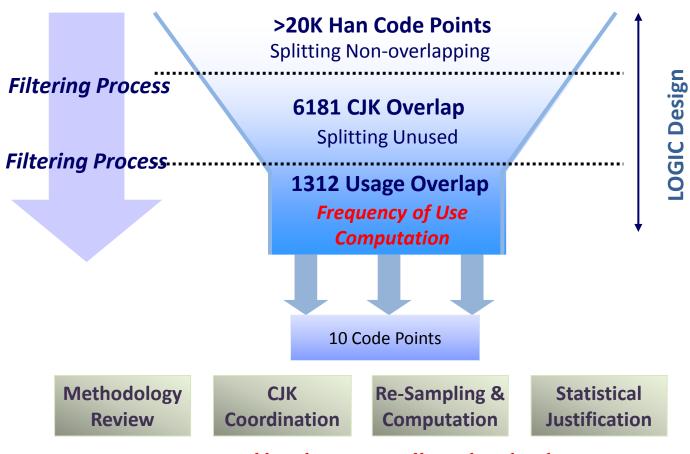




unified code points				
	363 939 1302			
+	939			
	1302			

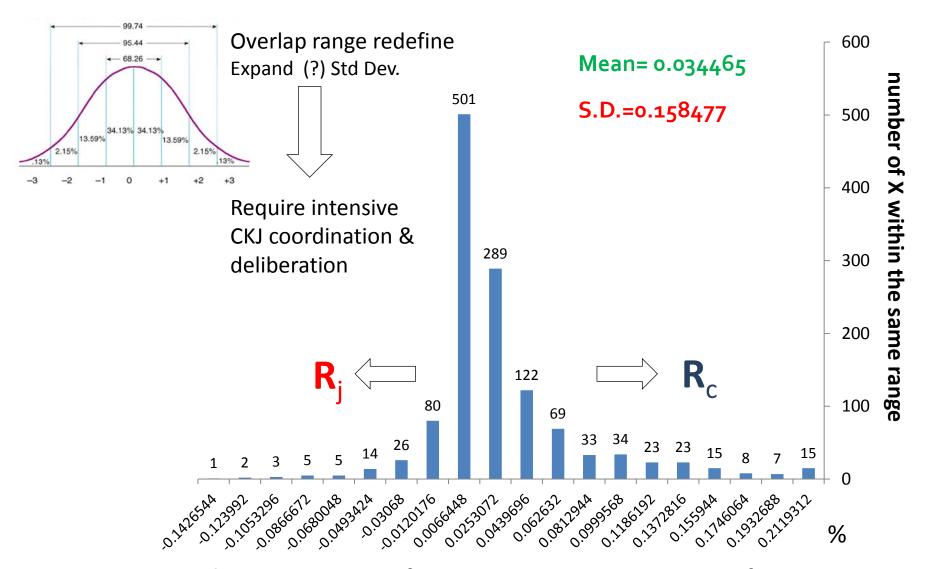
Problem Domain (Unsolved Overlap): 10

# **Data Processing & Computation Recap**



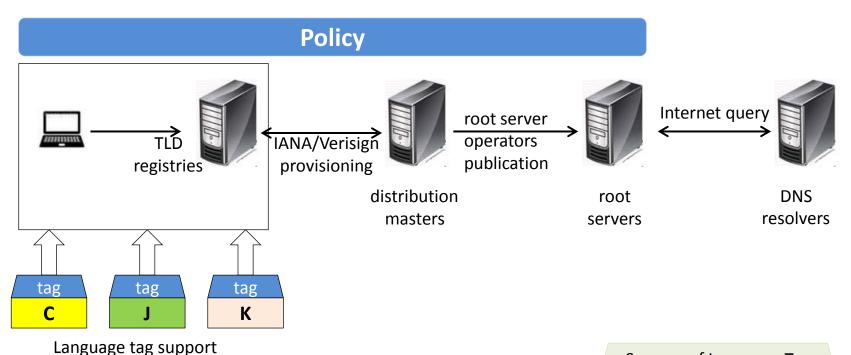
Problem domain was effectively reduced

## **Future Work**



Chinese Frequency of Use Minus Japanese Frequency of Use

# **Re-consider Language Tag**



Sources of Language Tag

- •RFC 2860 : The name space of language tags is administered by IANA
- •ISO Standard 639:
  - when a language has both an IANA-registered tag and a tag derived from an ISO registered code, one MUST use the ISO tag.
  - Maintenance Agency: International Information Centre for Terminology (Austria)

### Perfection Syndrome

"Engineering isn't about perfect solutions; it's about doing the best you can with limited resources." Randy Pausch

> Thank You Question?

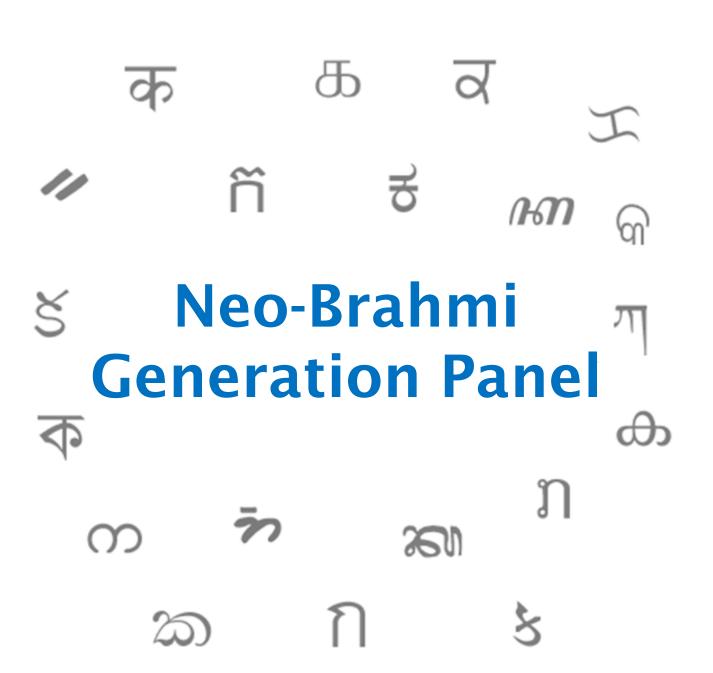
Kenny Huang, Ph.D. huangksh@gmail.com

# Community Work

Neo-Brahmi Prospective

Generation Panel







#### What is Brahmi?

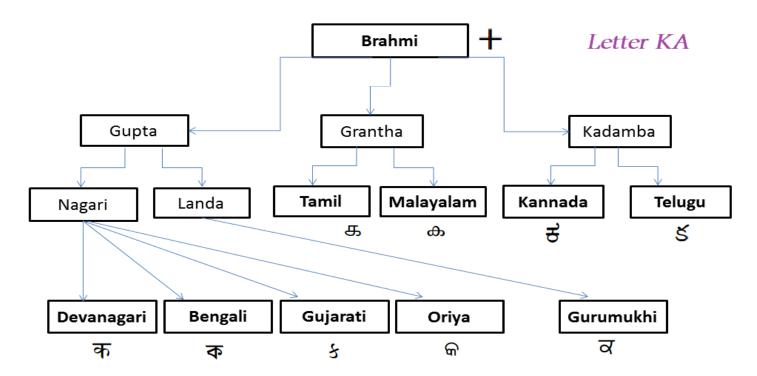


- An ancient script
- Most of the modern scripts in Indian subcontinent have been derived from Brahmi
- Geographically the scripts being used in Central Asia, South Asia and South-East Asia
- These scripts are used by multiple language families: Largely by Indo-Aryan and Dravidian





- All the scripts derived from Brahmi are Abugida, also known as alphasyllabary.
- The lineage, example of "Letter Ka"



# Why Brahmi?



- Despite their variations in the visual forms, the basic philosophy in their usage is common
- They all are "akshar" driven, and follow a specific syntax
  - Analogical reference can be made to Indian National standard, IS 13194:1991 - Section 8
- This syntax being the implicit foundation in representation of these scripts in the digital medium, adherence to the structure acts as a obligatory security consideration even in the case of Internationalized Domain Names.
- Here we are dealing with "root"



## Why Neo-Brahmi?

- Of all the scripts derived from "Brahmi", not all are in modern usage
- Approach is in consonance with the conservatism principle of the LGR procedure

### Past Experience



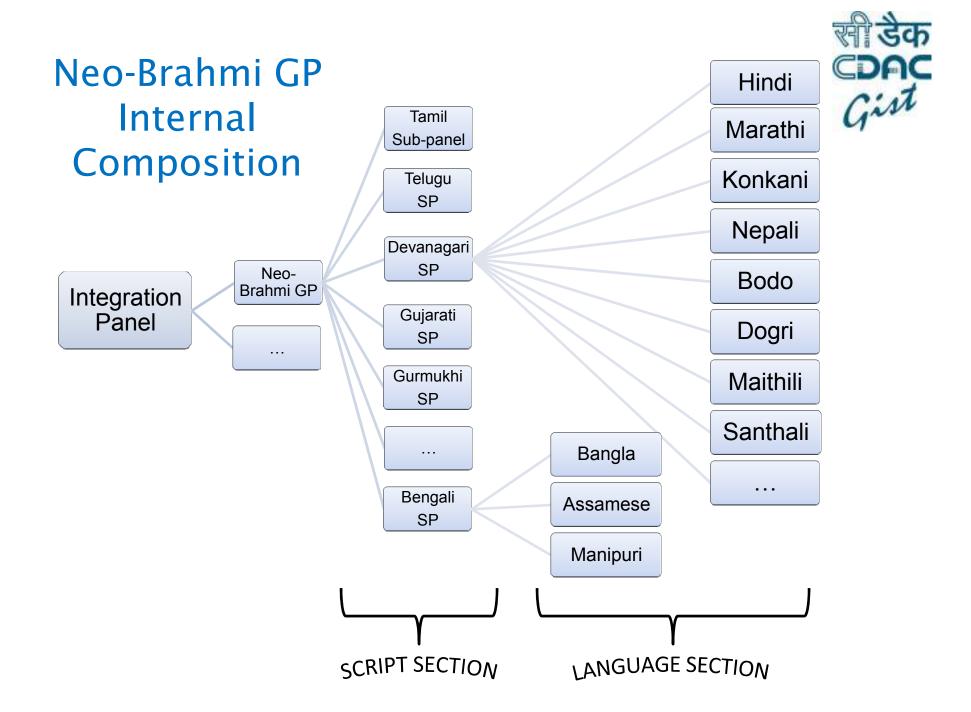
- Experience of working for IDN ccTLDs for 22 Official Indian Languages
- Each language is having its own
  - Code point set
  - Variant
  - Complex Whole label Evaluation Rules



#### **Current Members List**

- Currently the group is of 10 members
  - Mixed bag expertise like linguistic, Unicode
  - Need more members to cover the diversity within the group

Udaya Narayana Singh	Raiomond Doctor
Mahesh D. Kulkarni	Anupam Agrawal
Akshat S. Joshi	Abhijit Dutta
N. Deiva Sundaram	Neha Gupta
Nishit Jain	Prabhakar Pandey



# Get Involved



- The group is currently working on gaining more participation within and outside India.
- For participation, please refer "Call for participation Neo Brahmi Generation Panel"
  - Published at ICANN community page https://community.icann.org/display/croscomlgrprocedure/Root+Zone+LGR+Project
- Interested individuals can send their expression of interest to <u>neobrahmiGP@icann.org</u> and <u>idntlds@icann.org</u>





- Reviewed and commented on Maximal Starting Repertoire for the Root
- A workshop is planned in AprIGF on "Bringing diverse linguistic communities together for a unified IDN ruleset" for reaching out to the community for the wider participation in the panel
- Working on the Neo-Brahmi Generation panel proposal May submit to ICANN by end of August/early September



# Community Work

Arabic Generation Panel



# Task Force on Arabic Script IDNs: Overview and Progress

@ ICANN London Meeting (June '14)

Task Force on Arabic Script IDNs (TF-AIDN)

Middle East Strategy Working Group (MESWG)

tf-aidn@meswg.org

# Community Driven Way forward: Task Force on Arabic Script IDNs

 Creation and oversight by community based Middle East Strategy Working Group (MESWG;

https://community.icann.org/display/MES/MESWG+Members

- TF-AIDN Objectives: a holistic approach
  - Arabic Script Label Generation Ruleset (LGR) for the Root Zone
  - Second level LGRs for the Arabic script
  - Arabic script Internationalized Registration Data
  - Universal acceptability of Arabic script IDNs
  - Technical challenges around registration of Arabic script IDNs
  - Operational software for registry and registrar operations
  - DNS security matters specifically related to Arabic script IDNs
  - Technical training material around Arabic script IDNs

#### Membership

- Currently <u>26 members</u> applications still being received
- From <u>15 countries</u> Australia, Egypt, England, Ethiopia, Germany, Iran, Jordan, Lebanon, Malaysia, Morocco, Pakistan, Palestine, Saudi Arabia, Sudan, and UAE
- Speaking than <u>nine languages</u> Arabic, Malay, Saraiki, Sindhi, Pashto, Persian, Punjabi, Torwali, Urdu, with <u>expertise</u> in use of Arabic script from East Asia, South Asia, Middle East, North Africa and Africa
- Coming from <u>diverse disciplines</u> academia (linguistics and technical), registries, registrars, national and regional policy bodies, community based organizations, technical community

#### **Task Force on Arabic Script IDNs**

- Membership open, community based
- Details and interests of members posted by MESWG
- Discussions publicly archived
- Details at <a href="http://lists.meswg.org/mailman/listinfo/tf-aidn">http://lists.meswg.org/mailman/listinfo/tf-aidn</a>
- Background and Introduction to TF-AIDN
  - https://community.icann.org/display/MES/Task+Force+on+Arabic+Script
     +IDNs
- Workspace, news and document archive
  - <a href="https://community.icann.org/display/MES/TF-AIDN+Work+Space">https://community.icann.org/display/MES/TF-AIDN+Work+Space</a>
- Email Archive
  - http://lists.meswg.org/pipermail/tf-aidn/

## **Arabic Script TLDs Assigned or Delegated**

c1 1 1	1
الجزائر	. !

2. عمان

**3.** ايران

4. امارات

**5.** بازار

6. پاکستان

7. الاردن

8. بهارت

9. المغرب

10. السعودية

11. سودان

12. مليسيا

13. شبكة

14. سورية

15. تونس

16. مصر

17. قطر

18. فلسطين

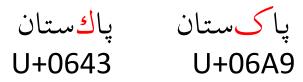
19. موقع

#### SUMMARY OF THE CODE POINTS

Color	Description	No. Of codes
	DISALLOWED by MSR	48
	ALLOWED by MSR	227
	Not Allowed by IDN2008	64
Total		339
Submitted to MSR		172
Discussion on codes to be handed over to LGR		Work is under process

### **IDN Variants Needs and Challenges**

#### **Security and Stability Needs**



xn--mgbai9a5eva00b xn--mgbai9azgqp6j

- 120+ cases of visually same or similar Arabic script characters identified by case study team
  - Variants must not be allocated independently
  - Variants may need activation to allow user access (w/ different KB)
- 16 IDN ccTLD applications with 4 applications with variants

#### **Security and Stability Challenges**

- Consistency and innumerability
  - Consistent across and within TLDs
  - Minimal activation for manageability
- Management tools
  - Registration
  - Configuration and Maintenance
  - Security and Monitoring
- Usability in applications
  - Browsing, emailing, etc.
  - Searching, privacy, etc.

# **Progress**

#### Work Accomplished

- Arabic Script Generation Panel
- Principles for Inclusion, Exclusion, and Deferral of Arabic Script Variants
- MSR Analysis and Feedback
- Principles on Variants
- Code Points for LGR

#### Outreach to the Community

- Launch at the Arab IGF Meeting in Algiers
- Presentation during the IGF in Bali
- Outreach during the ME DNS Forum
- Presentation to the community at ICANN Singapore
- Presentation to the community at the APTLD Meeting

#### **Current Work and Next Steps**

- XML Manual [June 30, 2014]
- Finalize the discussions on Code Points [August 28, 2014]
- Finalize the discussions on Variants [September 30, 2014]
- Whole Label Rules Aug Oct 14
  - Document principles for whole label variants
  - Define whole label variants
  - Release for Public Comments
- Finalization Nov –Dec 14
  - Finalize LGR for Arabic script
  - Submit to ICANN/IP
  - Release for Public Comments

تریما کاسیه شکراً شکری Thank You

#### LGR project mailing lists

- LGR@icann.org: Communicate with LGR community members and the Integration Panel on matters related to LGR work
- IntegrationPanel@icann.org: Contact directly the Integration Panel members on all matters related to LGR work
- ArabicGP@icann.org, ChineseGP@icann.org, CyrillicGP@icann.org, KoreanGP@icann.org, NeoBrahmiGP@icann.org : script community dedicated mailing lists
- idntlds@icann.org: Contact ICANN to submit Generation Panel proposals, individual statement of interests, work reports, updates, etc.
- Discuss issues related to the IDN Variant TLDs Program by subscribing to <u>vip@icann.org</u> here: <a href="https://mm.icann.org/mailman/listinfo/vip">https://mm.icann.org/mailman/listinfo/vip</a>





#### **ICANN IDN Team: Thank You**

#### **USEFUL LINKS:**

- The LGR Procedure: http://www.icann.org/en/resources/idn/variant-tlds/lgr-procedure-20mar13-en.pdf
- MSR-1 Public Comment: <a href="https://www.icann.org/public-comments/msr-2014-03-03-er">https://www.icann.org/public-comments/msr-2014-03-03-er</a>
- MSR-1 released: https://www.icann.org/news/announcement-2-2014-06-20-en
- V07 Internet Draft for LGR Rules Toolset Project Published: http://tools.ietf.org/html/draft-davies-idntables-07
- Call for Generation Panels to Develop Root Zone Label Generation Rules: http://www.icann.org/en/news/announcements/announcement-11jul13-en.htm
- Setting up and running a Generation Panel: https://community.icann.org/display/croscomlgrprocedure/Generation+Panels
- Community Wiki LGR Project website: https://community.icann.org/display/croscomlgrprocedure/Root+Zone+LGR+Project
- For more info on the IDN Variant related pages, please visit: https://www.icann.org/resources/pages/variant-tlds-2012-05-08-en
- To submit expressions of interest, or if you have additional questions, please contact ICANN at: idntlds@icann.org



