

CGP Update

Chinese Script Root Zone Label Generation Rules (LGR)

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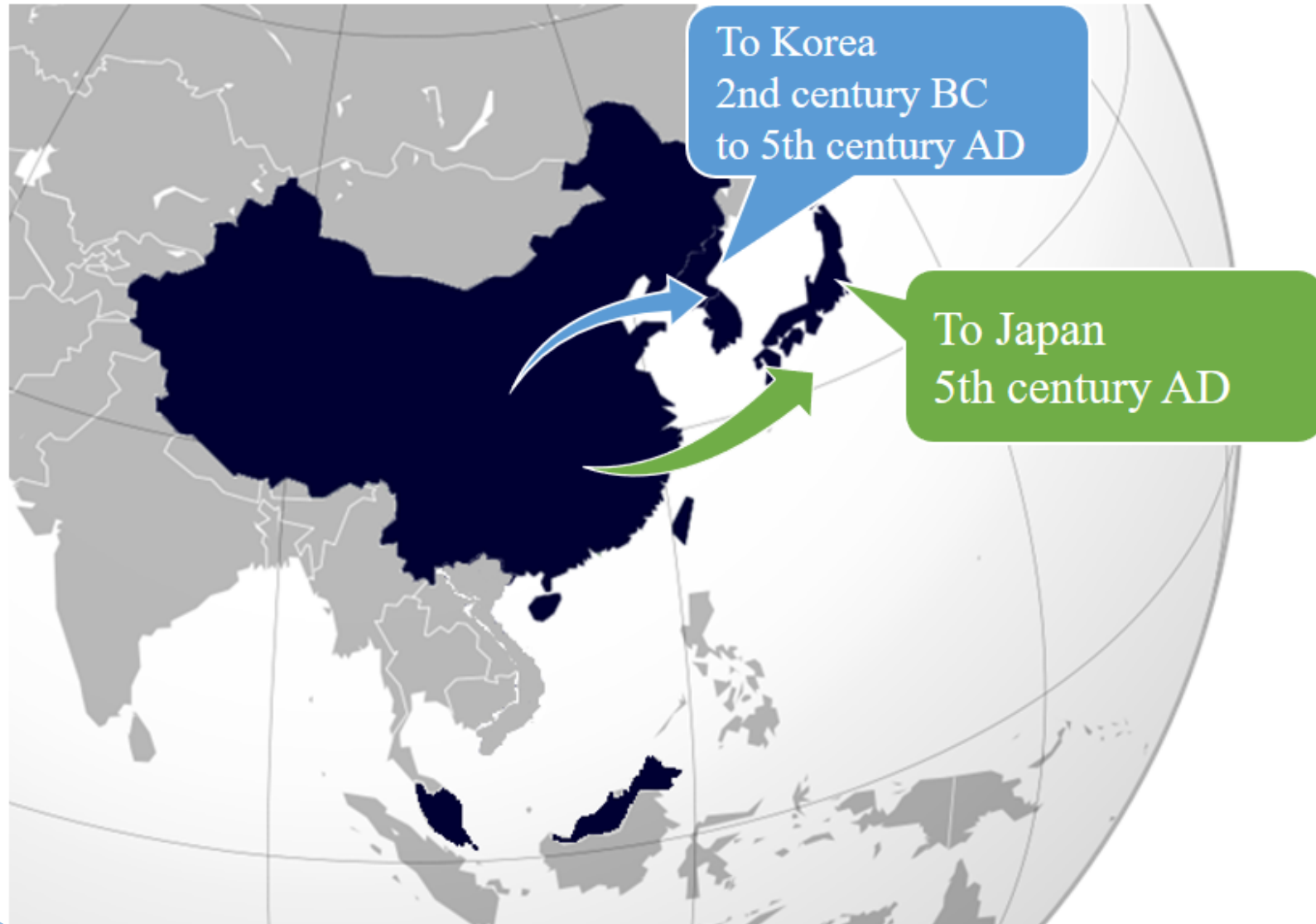
APrIGF Taipei

28 July 2016

Evolution of Chinese Character

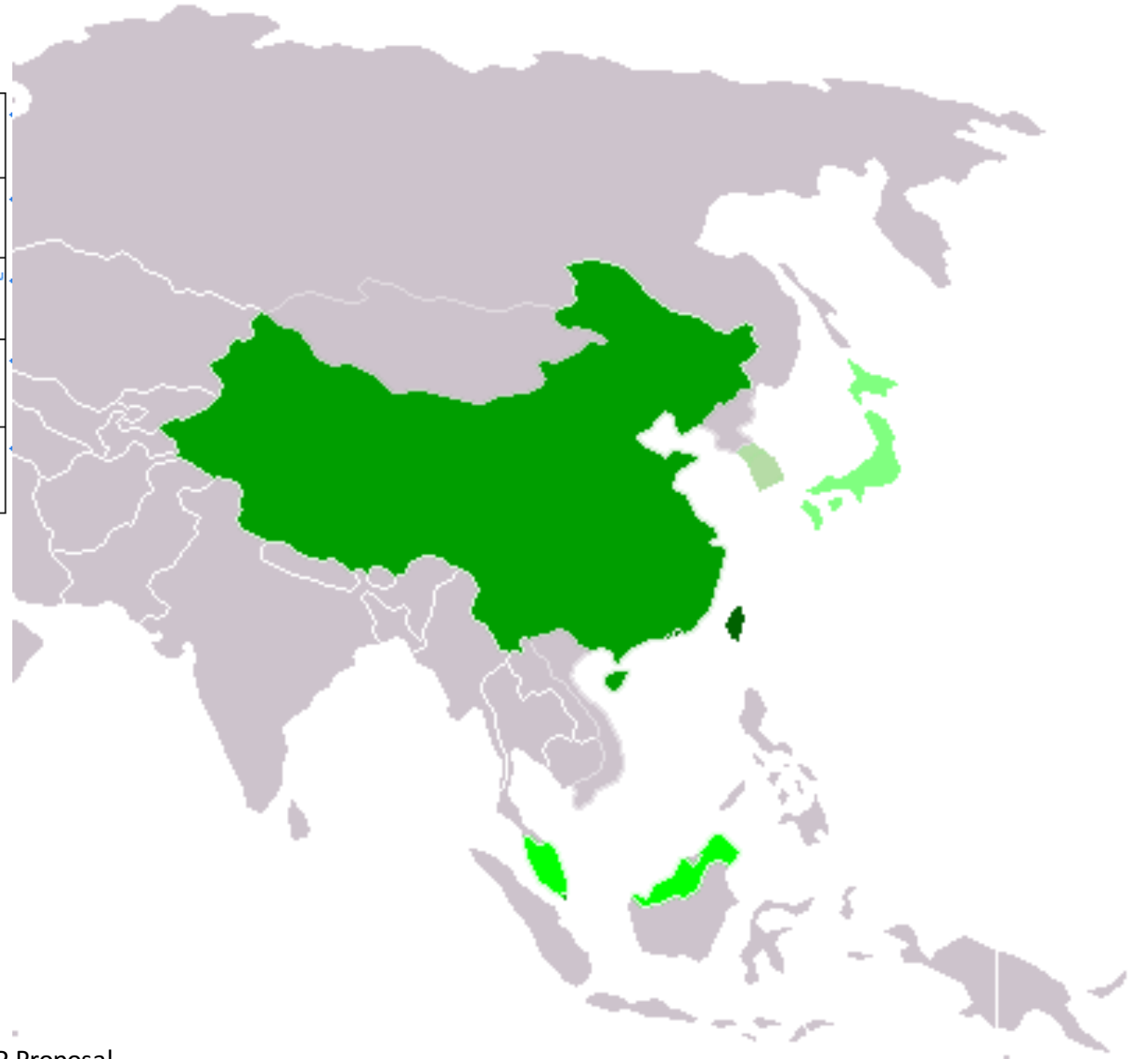
	oracle bone <i>jiauwen</i>	greater seal <i>dazhuan</i>	lesser seal <i>xiaozhuan</i>	clerkly script <i>lishu</i>	standard script <i>kaishu</i>	running script <i>xingshu</i>	cursive script <i>caoshu</i>	modern simplified <i>jiantizi</i>
rén (*nin) human	𠤎	亼	𠤎	人	人	人	人	人
nǚ (*nra?) woman	𡗗	𡗗	𡗗	女	女	女	女	女
ěr (*nha?) ear	𠂔	𠂔	𠂔	耳	耳	耳	耳	耳
mǎ (*mrā?) horse	𠂔	𠂔	𠂔	馬	馬	馬	馬	馬
yú (*ŋha) fish	𩺰	𩺰	𩺰	魚	魚	魚	魚	鱼
shān (*srān) mountain	𠂔	𠂔	𠂔	山	山	山	山	山
rì (*nit) sun	𠂔	𠂔	𠂔	日	日	日	日	日
yuè (*ŋot) moon	𠂔	𠂔	𠂔	月	月	月	月	月
yǔ (*wha?) rain	𠂔	𠂔	𠂔	雨	雨	雨	雨	雨
yún (*wən) cloud	𠂔	𠂔	𠂔	雲	雲	雲	雲	云

Chinese Script Spread to Japan and Korea

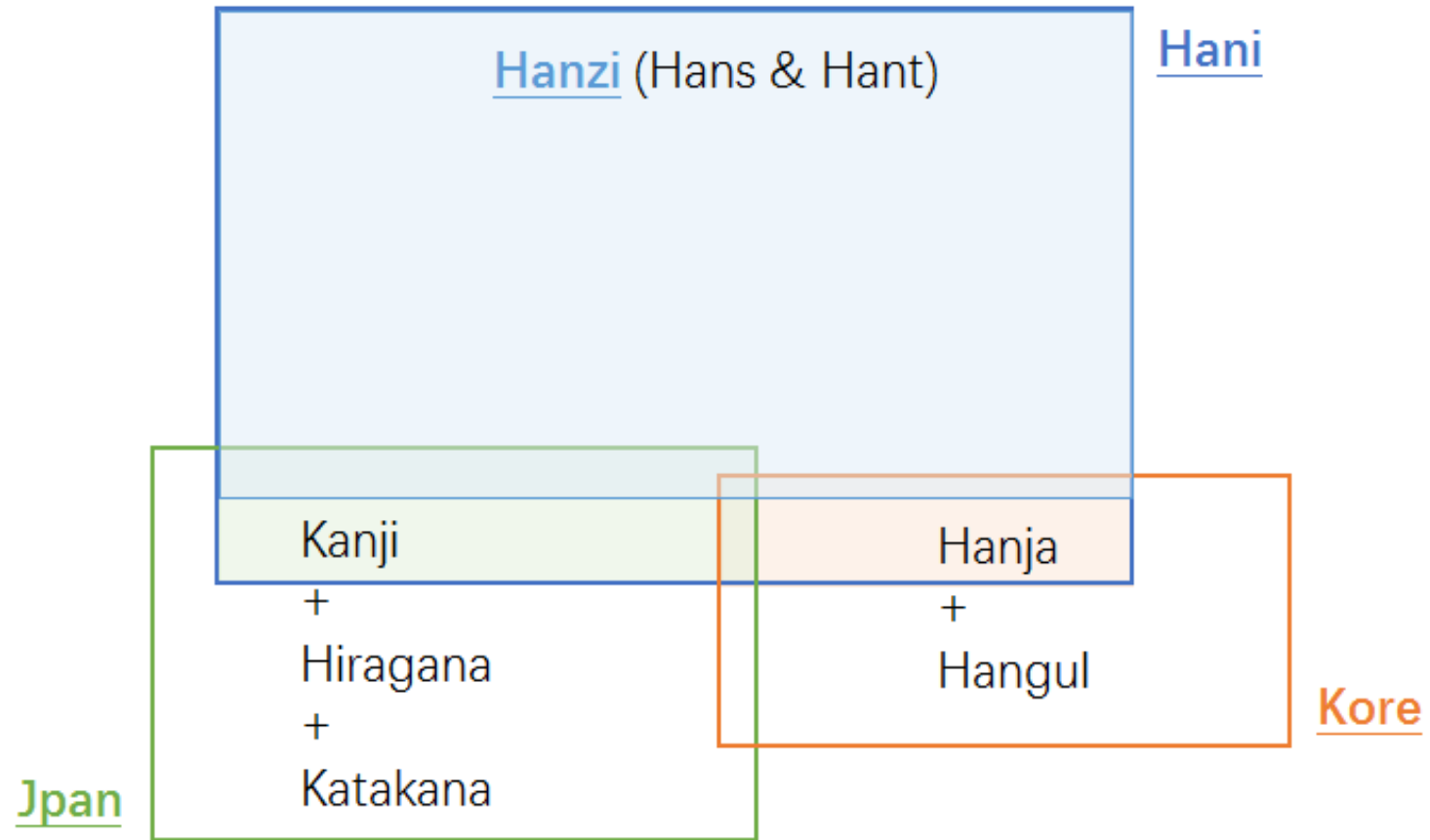


Countries and Regions Using Chinese Script

	Traditional Chinese script used exclusively or almost exclusively ↵ (Taiwan, Macau and Hong Kong) ↵
	Simplified Chinese script used exclusively or almost exclusively ↵ (Mainland China and Singapore) ↵
	Simplified Chinese script used formally but Traditional script still used widely ↵ (Malaysia) ↵
	Chinese script used with other systems of writing in the same language ↵ Kanji (Japan) ↵
	Chinese script no longer officially used ↵ Hanja (Republic of Korea) ↵



Hanzi, Kanji and Hanja



source : CGP Proposal

Variant solutions in different scripts

- **CDNC: RFC 3743 & 4713**
- Allocate all Applied-for IDL and Variant IDLs to the same registrant
- Delegate Applied-for IDL, Preferred SC IDL, Preferred TC IDL
- Reserve all the other Variant IDLs
- Delegate reserved variant IDLs when requested at a later date

- **JPRS: No Variant issue**
- Among Kanji characters, some are in a simplified form (called the “new character form”), derived from the traditional imported form (called the “old character form”).
- It is appropriate to distinguish new and old forms as different and independent characters instead of pure variants. This understanding has been reflected in the IANA IDN table developed by the JPRS, in which no variants are identified for Kanji.

- **KISA: No Variant issue. Concern about overlapped code points with CDNC**
- Hanja is no longer widely used in the ROK. A law enacted in 2011 orders all ROK official government documents to be written ONLY in Hangul.
- KISA stated that its SLD IDN policy does not allow and nor does they have any intention of allowing the use of Hanja in their domestic market.

Coordination Principles

Each CJK panel creates an LGR and each LGR includes a repertoire and variants.

The variant mappings must agree for the same code point for all LGRs.

The variant types may be different (blocked or allocatable), the variant types do not have to agree across LGRs

The repertoires may be different

Allocatable

A potential allocation rule says that once the variant label is generated, that variant label may be allocated to the applicant for the original label.

Blocked

A blocking rule says that a particular label must not be allocated to anyone under any circumstances.

Coordination Example

For CGP

Code Point	Allocatable Variant	Blocked Variant	Tag
爱 U+7231	愛 U+611B	-	und-hani
愛 U+611B	爱 U+7231	-	und-hani

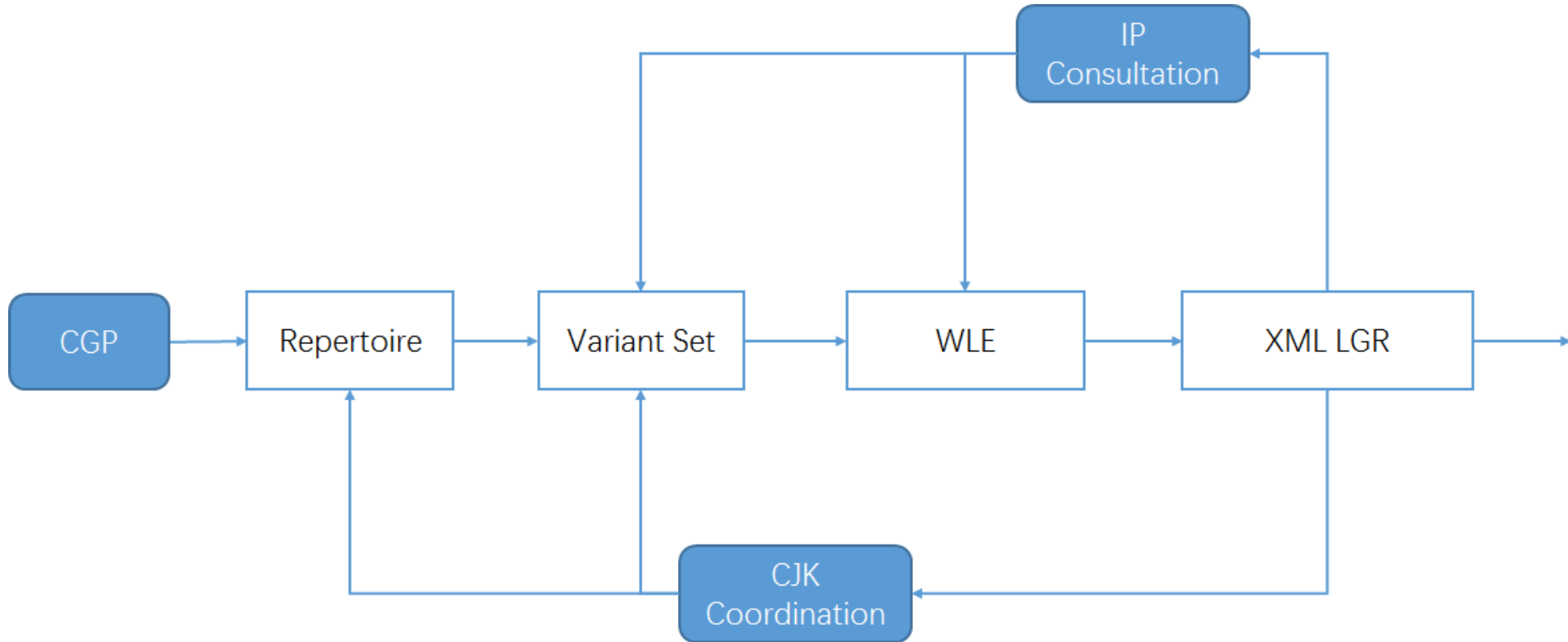


For JGP, probably

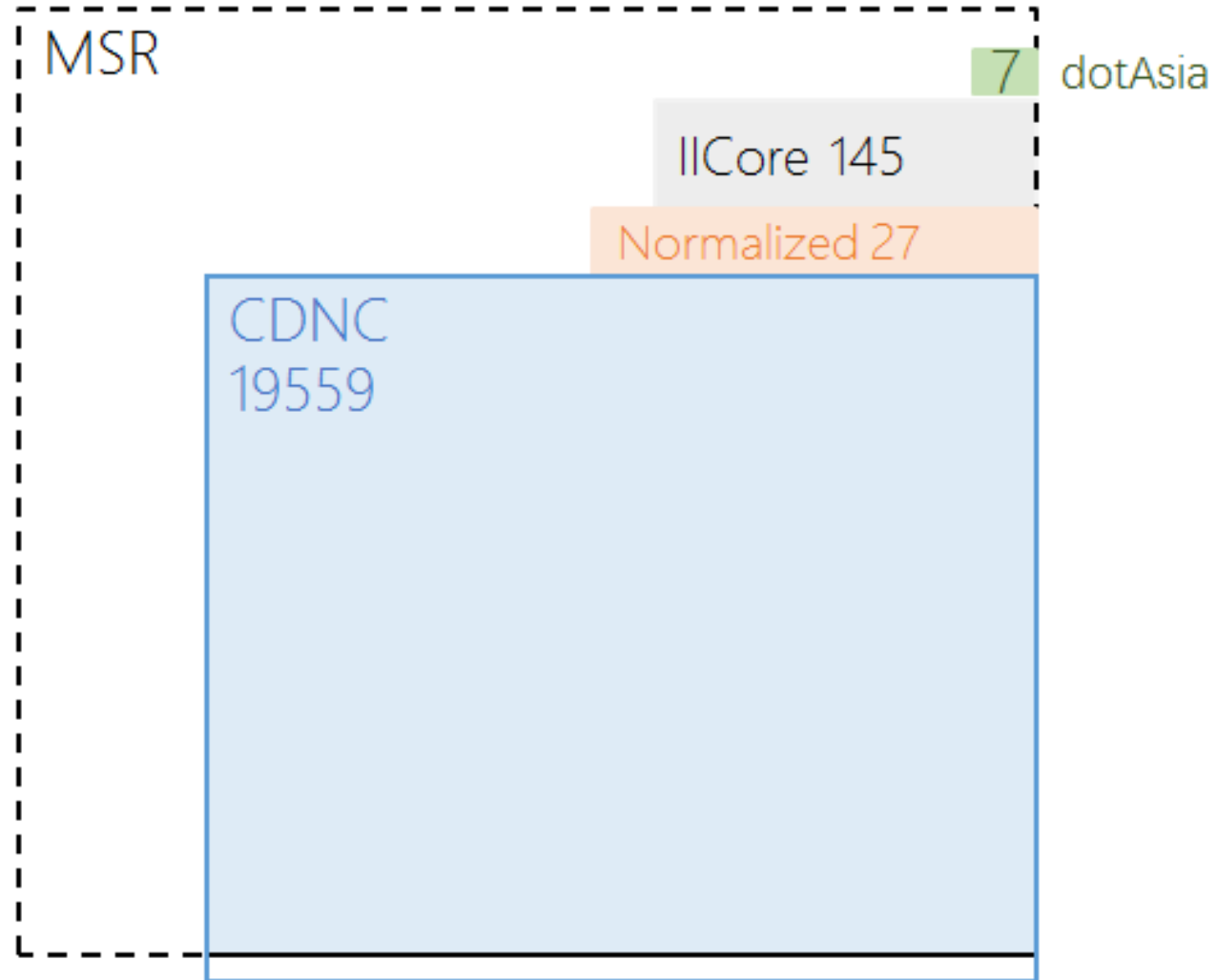
Code Point	Allocatable Variant	Blocked Variant	Tag
愛 U+611B	-	-	und-jpab

Code Point	Allocatable Variant	Blocked Variant	Tag
爱 U+7231	愛 U+611B	-	und-hani
愛 U+611B	爱 U+7231	-	und-hani
愛 U+611B	-	爱 U+7231	und-jpan

Iteration Model of CGP Work Process

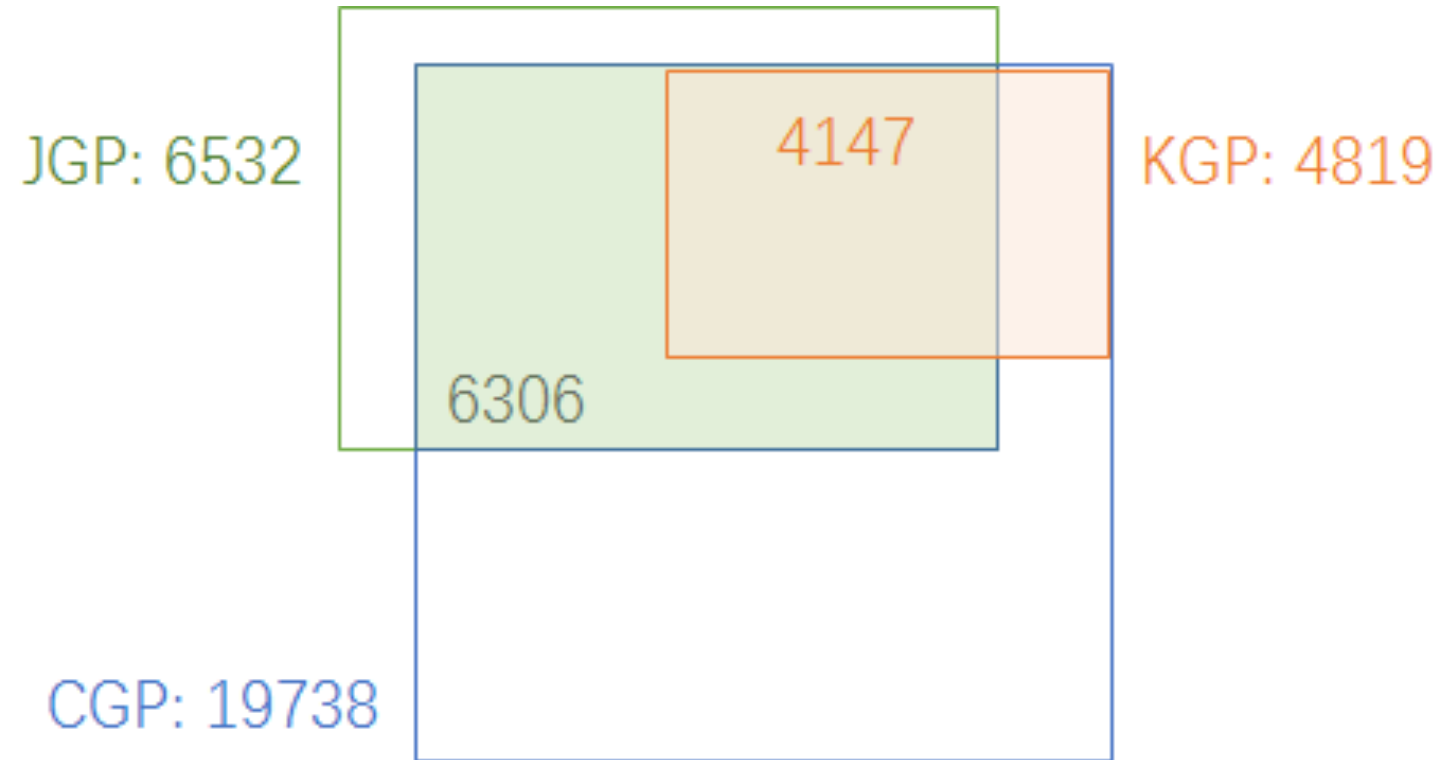


CGP Repertoire Components

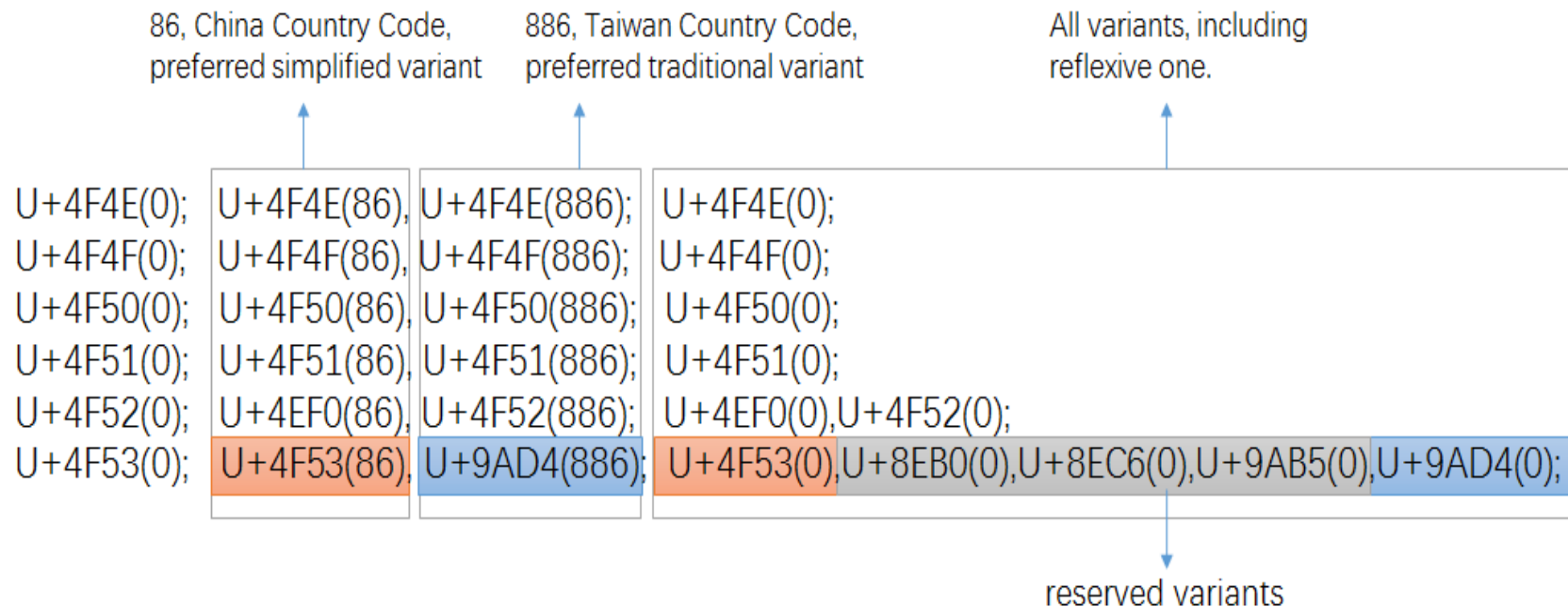


source : CGP Proposal

CGP Hanzi set, JGP Kanji set and KGP Hanja set

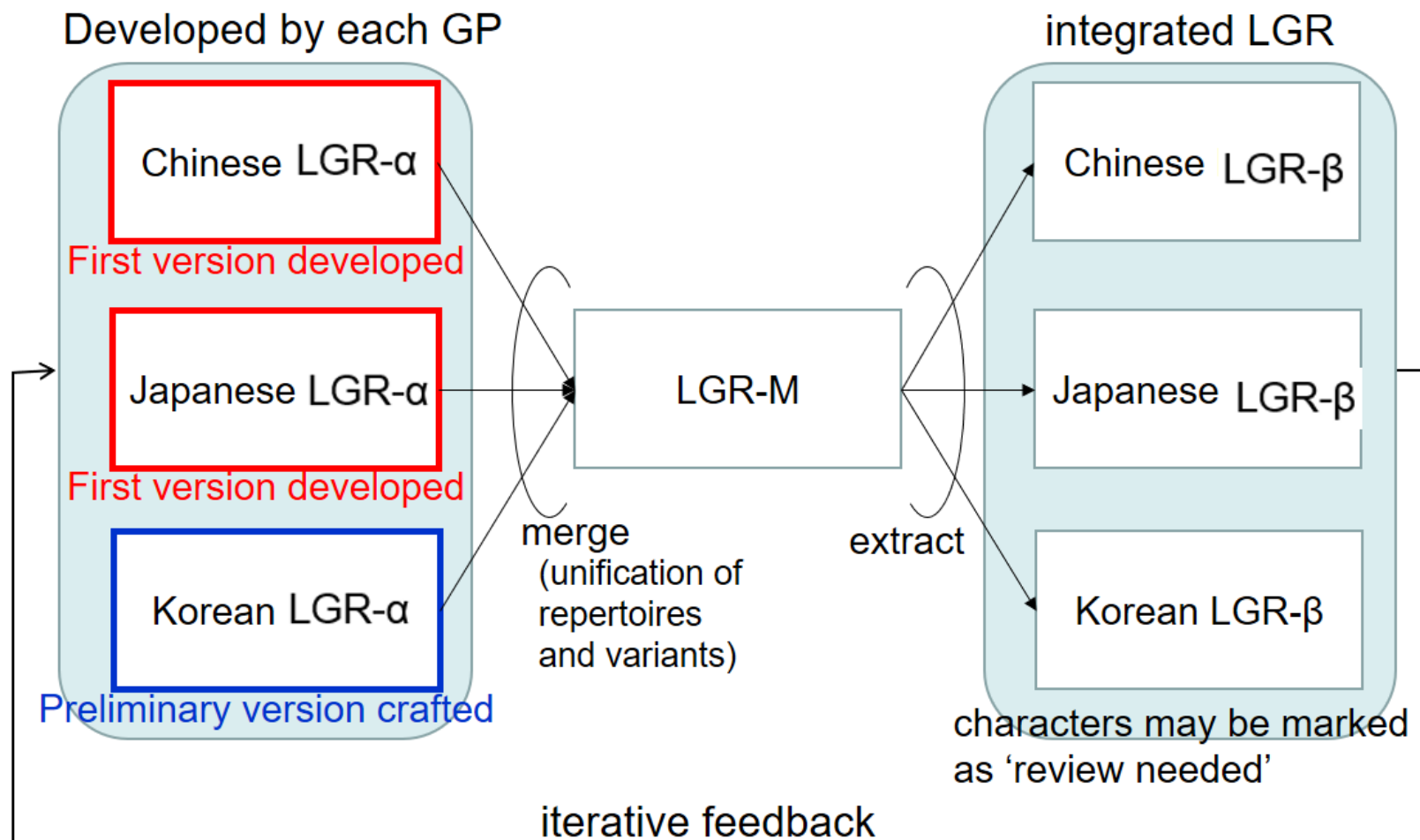


Variant Setting in CDNC IDN Table



"simp" ↵	preferred simplified; ↵
"r-simp" ↵	reflexive preferred simplified; ↵
"trad" ↵	preferred traditional ↵
"r-trad" ↵	reflexive preferred traditional ↵
"both" ↵	preferred simplified and traditional ones are the same ↵
"r-both" ↵	reflexive preferred simplified and traditional ones are the same ↵

Framework of CJK LGR Integration for Han Characters



Next Step

- Coordination with CJK community
- Adopting guiding principles and seeking rough consensus
 - Technical feasibility
 - Cultural and social considerations
- A harmonized solution is anticipated before the end of 2016



Thank You
Question?