

D.9 Cross-script Variants

This section considers all 218 code points in the Latin LGR repertoire and list the candidate variant (if any) with other related script i.e, Armenian, Cyrillic, and Greek. This appendix only contains the cross-script variants with those three scripts.

D.9.1. Cyrillic Script

D.9.1.1 Cyrillic Small Letter Straight U 04A4

Cyrillic GP has already classified 0079 Latin Small Letter Y (y) and 0443 Cyrillic Small Letter U (y) as variants [CYRILLIC]. In addition to that, Latin GP considers 04AF Cyrillic Small Letter Straight U (y) to be sufficiently similar to 0079 to warrant a variant relationship between the two characters. By consequence, this finding leads towards an in-script variant in Cyrillic script between 04AF Cyrillic Small Letter U (y) and 0443 Cyrillic Small Letter Straight U (y), due to the requirement of transitivity.

D.9.1.2 Cyrillic Small Letter Dzhe 045F

In Arial and Courier New, the glyphs of 1EE5 and 045F look nearly identical. The screenshot below presents the glyphs in those two fonts in the second and third rows, respectively. (The first row presents the glyphs in Times New Roman).

LATIN SMALL LETTER U WITH DOT BELOW	1EE5	Ў	Ў	045F	CYRILLIC SMALL LETTER DZHE
		Ў	Ў		
		Ў	Ў		

D.9.2. Greek Script

D.9.2.1. Greek Small Letter Alpha 03B1

Latin-script users consider 0061 Latin Small Letter A and Greek Small Letter Alpha 03B1 as variants on non-visual grounds:

0061 is regularly represented using a glyph (nearly) identical with 03B1 in italic: *a*. (See the title of this subsection.) Thus, significant parts of the Latin script-using community may consider them equivalent, despite being able to visually tell the difference between the two glyphs.

For example, 0061 is considered the block- or print-letter shape to the hand-written shape of 03B1 in large parts of the script-using community, and a shape similar to 03B1 is used in

standard primers and repertoire of handwriting as taught to school children, such as e.g. the Grundschrift <https://en.wikipedia.org/wiki/Grundschrift> demonstrated in Figure G02:

Hamburger Druckschrift

ABCDEFGHIJKLMN
OPQRSTUVWXYZ

abcdefghijklmn
opqrstuvwxyzß

Figure G02. Repertoire of Standard Handwriting repertoire as official in the German state Hamburg, taken from https://en.wikipedia.org/wiki/Grundschrift#/media/File:Hamburger_Druckschrift_ab_2011.jpg

This variation between glyphs is however not limited to the German speaking user community or didactic hand-writing repertoires: Similar shapes to both 0061 and 03B1 are featured prominently in the graphic design of logos of international brand names in, which constantly reiterates the inter-changeability to the minds of readers:

- US TV-station ABC ([http://logos.wikia.com/wiki/ABC_\(United_States\)?file=Abc_2013_logo_dark_grey.svg](http://logos.wikia.com/wiki/ABC_(United_States)?file=Abc_2013_logo_dark_grey.svg)),
- Beats by Dr. Dre (<https://cdn.dealspotr.com/zc-images/merchants/beats-by-dre.jpg>),
- Macys (<https://en.wikipedia.org/wiki/Macy%27s>),
- Adidas (<https://en.wikipedia.org/wiki/Adidas>),
- German TV station ARD-Alpha (<https://de.wikipedia.org/wiki/ARD-alpha>),
- Former US airline AirTran (http://logos.wikia.com/wiki/AirTran_Airways?file=AirTran_A.svg),
- The variation in between the two character shapes occurs also within the same logos e.g. <http://logos.wikia.com/wiki/Save-A-Lot>.

This inter-changeability is also historically established and has been used for decades in the typography employed in movies (cf. the initial “a” Paramount movie openers (http://logos.wikia.com/wiki/Paramount_Cartoon_Studios)).

While IP has noted that logos should not be used as evidence since they use ad-hoc font styles (as noted during the conference call with IP in October 2018), the large number of well-known logos across language communities together with the independent evidence from font

renderings constitutes sufficient evidence for Latin GP to be considered as valid evidence in favor of a variant relationship.

In summary, Latin GP concluded that users of the Latin script may not be able to differentiate 03B1 from 0061 based on non-visual grounds, and therefore 03B1 should be in a variant relationship with 0061.

D.9.2.2. Greek Small Letter Rho 03C1

LATIN SMALL LETTER P (0070) and GREEK SMALL LETTER RHO (03C1) are visually nearly identical in isolation in several widespread fonts (such as Times New Roman and Courier New, presented in the first and third row, respectively, of the screenshot below).

Figure G02: 0070 vs. 03C1

LATIN SMALL LETTER P	0070	p	ρ	03C1	GREEK SMALL LETTER RHO
		p	ρ		
		p	ρ		

In such cases, the two code-points are visually only distinguishable in context because of their relative positioning towards the baseline, since 0070 crosses below the baseline but 03C1 does not. Given that there are several variant candidates among the cross-script variants, numerous plausible labels could be made up, such as .pop vs .pρp or .pαy vs .pay, which most Latin-script users would be hard-pressed to distinguish in context.

Furthermore, designers from the Latin-script using community have exploited the visual similarity between these two code-points and have created logos for globally used brand-names, which employ glyphs bearing more resemblance to Greek 03C1 rather than Latin 0070, such as Pepsi (cf. <https://perma.cc/6GTA-98C9?type=image>). Again, this use in logo designs is neither limited to the Pepsi-brand logo nor the English-using community - cf.

- http://logos.wikia.com/wiki/Logopedia:Theme/Logos_with_the_letter_P?file=Publix_logo.png,
- http://logos.wikia.com/wiki/File:150px-Android_P_logo.png
- <http://logos.wikia.com/wiki/File:Vpf.png>,
- http://logos.wikia.com/wiki/Category:Red_PAT -

It is also featured in historically established logos – cf.

- http://logos.wikia.com/wiki/File:Pba_83_on_city_2_Vintage_Sports.jpg.

By consequence, Latin-script users tend to recognize glyphs resembling Greek 03C1 as non-visual variants of 0070, even where they are able to visually distinguish the two shapes and irrespective of the fact, that for Greek users, 03C1 is clearly distinctive from Latin 0070, therefore constituting a variant on non-visual grounds.

D.9.2.3. Greek Small Letter Upsilon G03C5

0075-03C5: The two glyphs look “nearly identical” in Arial font (as shown in the second row in the image below).

Figure G03.1: 0075 vs. 03C5

LATIN SMALL LETTER U	0075	u	υ	03C5	GREEK SMALL LETTER UPSILON
		u	υ		
		u	υ		

028B-03C5: Also, these two glyphs look “nearly identical” in Times New Roman font (as shown in the first row in the image below).

Figure G03.2: 028B vs. 03C5

LATIN SMALL LETTER V WITH HOOK	028B	υ	υ	03C5	GREEK SMALL LETTER UPSILON
		υ	υ		
		υ	υ		

The same analysis applies to 00FA and 03CD, which are essentially the same characters with the addition of a modifying diacritic on top (an Acute in the case of Latin and a Tonos in the case of Greek script).

Since the former two variant sets feature one and the same code point from Greek script but two different code points from Latin script, this therefore imposes an in-script variant relationship between 0075 and 028B due to transitivity. The two code points Latin U (0075) and Latin V with Hook (028B) are however both used in a distinguishing manner in the orthography of Mossi – a language of Burkina Faso¹. Latin GP foresees no issues, and accepts the imposed variant relationship between the two code points, given that the variant relationship between U and V with Hook will still permit users from the Mossi community to employ both code points in labels, and since there won’t be any particular security risk for the Mossi community, such as spoofing, as the variant set will have a the disposition of “blocked”.

D.9.2.4. Greek Letter Beta 03B2

The Greek script code point 03B2 β (Letter Beta) is visually nearly identical due to font design to Latin script code point 00DF ß (Letter Sharp S). While those differences may be argued to be

sufficiently different from a point of view of Greek script users, particularly the German users from the German language community may consider these code points confusable, since the typical rendering of the Greek variant is one of the forms taught to elementary school pupils as a hand-written form of the Latin-script code point 00DF ß across the German-speaking part of the script-using community, as demonstrated by Figure G04 below.

Figure G04: A handwritten form of the German Lexeme Grüße ‘greetings’, taken from <https://de.wikipedia.org/wiki/%C3%9F#/media/File:Gruesse-Schneider-Legende.png> (Cf. e.g. <https://de.wikipedia.org/wiki/%C3%9F#/media/File:Gruesse-Schneider-Legende.png>, where the German lexeme Grüße is spelled with such a hand-written form).



Therefore, adult script-users may also consider them in their minds to be the same, despite them being able to see the visual differences between the glyphs. Given that there are several Greek code points in a variant relationship to Latin code points, which are used by the German orthography, there are numerous plausible labels which could be made up, such as Greek. voß, which may be identified with the German surname Voß. Additionally, German orthography commonly replaces 00DF ß by a sequence of two ss, and the same variation is also encountered in personal names, i.e. both Voß and Voss are used, which gives further scope to this potential confusion among readers (This issue is further complicated by the issue of IDNA compatibility – c.f. section 6.7.2). Accordingly, there is a concrete risk for the safety and stability of the zone, which should be dealt with at the level of the LGR definition by a variant relationship between those two code points (and others), despite them not being homoglyphs in a strict sense in a number of fonts.

D.9.2.5. Greek Small Letter Sigma 03C3

In Courier New (represented by the third row in the screenshot of Figure G04 below) the glyphs are deemed nearly identical due to font design:

Figure G05: 01A1 vs. 03C3

LATIN SMALL LETTER O WITH HORN	01A1	σ	σ	03C3	GREEK SMALL LETTER SIGMA
		σ	σ		
		σ	σ		

D.9.2.6. Greek Small Letter Gamma 0263

The distinction between the Latin Small Letter Gamma (γ U+0263) and Greek Small Letter Gamma (γ, U+03B3) is an arbitrary convention: the range of generally encountered shapes for

Greek gamma encompasses also the form chosen for Latin gamma, even if user-interface fonts tend to keep these two distinct. Greek users may accept 0263 as an unusual font style, because of lack of awareness that a Latin clone of this letter even exists.

D.9.3. Armenian – Latin Cross-Script Variant Analysis

Latin			Armenian			First		Second		GP Decision
Unicode Name	Unicode Code Point	Glyph	Glyph	Unicode Code Point	Unicode Name	Score	Inspector	Score	Inspector	
LATIN SMALL LETTER W	0077	w	ա	0561	ARMENIAN SMALL LETTER AYB	4	BJ	4	MT	Not Variant
		w	ա			4		4		
		w	ա			4		4		
LATIN SMALL LETTER U + LATIN SMALL LETTER U	0075 0075	uu	ա	0561	ARMENIAN SMALL LETTER AYB	3	BJ	4	MT	Not Variant
		uu	ա			3		4		
		uu	ա			4		4		
LATIN SMALL LETTER THORN	00FE	þ	բ	0562	ARMENIAN SMALL LETTER BEN	4	BJ	4	MT	Not Variant
		þ	բ			4		4		
		þ	բ			4		4		
LATIN SMALL LETTER P	0070	p	բ	0562	ARMENIAN SMALL LETTER BEN	3	BJ	3	MT	Not Variant
		p	բ			3		3		
		p	բ			3		3		
LATIN SMALL LETTER Q	0071	q	զ	0563	ARMENIAN SMALL LETTER GIM	1	BJ	3	MT	Not Variant
		q	զ			2		3		
		q	զ			2		3		
LATIN SMALL LETTER A WITH OGONEK	0105	ą	զ	0563	ARMENIAN SMALL LETTER GIM	4	BJ	4	MT	Not Variant
		ą	զ			4		4		
		ą	զ			3		4		
LATIN SMALL LETTER ENG	014B	ŋ	դ	0564	ARMENIAN SMALL LETTER DA	2	BJ	3	MT	Not Variant
		ŋ	դ			2		3		
		ŋ	դ			2		3		
LATIN SMALL LETTER R + LATIN SMALL LETTER F WITH HOOK	0072 0192	rf	դ	0564	ARMENIAN SMALL LETTER DA	4	BJ	4	MT	Not Variant
		rf	դ			4		4		
		ɾf	դ			4		4		
LATIN SMALL LETTER R + LATIN SMALL LETTER L WITH STROKE	0072 0142	rl	դ	0564	ARMENIAN SMALL LETTER DA	4	BJ	4	MT	Not Variant
		rl	դ			4		4		
		rl	դ			4		4		
LATIN SMALL LETTER T	0074	t	ե	0565	ARMENIAN SMALL LETTER ECH	4	BJ	4	MT	Not Variant
		t	ե			4		4		
		t	ե			3		4		
LATIN SMALL LETTER T + LATIN SMALL LETTER I DOTLESS	0074 0131	ti	ե	0565	ARMENIAN SMALL LETTER ECH	3	BJ	4	MT	Not Variant
		ti	ե			3		4		
		ɾi	ե			4		4		
LATIN SMALL LETTER T + LATIN SMALL LETTER IOTA	0074 0269	ti	ե	0565	ARMENIAN SMALL LETTER ECH	3	BJ	3	MT	Not Variant
		ti	ե			3		3		
		ɾi	ե			4		4		
LATIN SMALL LETTER T WITH STROKE + LATIN SMALL LETTER I	0167 0131	ti	ե	0565	ARMENIAN SMALL LETTER ECH	3	BJ	4	MT	Not Variant
		ti	ե			3		4		
		ɾi	ե			4		4		
LATIN SMALL LETTER T WITH STROKE + LATIN SMALL LETTER IOTA	0167 0269	ti	ե	0565	ARMENIAN SMALL LETTER ECH	3	BJ	4	MT	Not Variant
		ti	ե			3		4		
		ɾi	ե			4		4		
LATIN SMALL LETTER Q	0071	q	զ	0566	ARMENIAN SMALL LETTER ZA	1	BJ	2	MT	Variant
		q	զ			2		2		
		q	զ			1		2		
LATIN SMALL LETTER T	0074	t	ե	0567	ARMENIAN SMALL LETTER EH	3	BJ	3	MT	Not Variant
		t	ե			2		3		
		t	ե			2		3		
LATIN SMALL LETTER T WITH COMMA BELOW	021B	ṭ	ե	0567	ARMENIAN SMALL LETTER EH	2	BJ	2	MT	Not Variant
		ṭ	ե			3		3		
		ṭ	ե			2		2		
LATIN SMALL LETTER N WITH LEFT HOOK	0272	ɲ	ը	0568	ARMENIAN SMALL LETTER ET	2	BJ	3	MT	Not Variant
		ɲ	ը			3		3		
		ɲ	ը			3		3		

Latin			Armenian			First		Second		GP Decision
Unicode Name	Unicode Code Point	Glyph	Glyph	Unicode Code Point	Unicode Name	Score	Inspector	Score	Inspector	
LATIN SMALL LETTER P	0070	Ɑ	Ք	0569	ARMENIAN SMALL LETTER TO	3	BJ	3	MT	Not Variant
		p	ք			3	BJ	3	MT	
		Ṗ	ք			3	BJ	3	MT	
LATIN SMALL LETTER IOTA + LATIN SMALL LETTER SCWHA	0269 0259	ἲ	Ք	0569	ARMENIAN SMALL LETTER TO	4	BJ	4	MT	Not Variant
		ἲ	ք			4	BJ	4	MT	
		ἲ	ք			4	BJ	4	MT	
LATIN SMALL LETTER IOTA + LATIN SMALL LETTER TURNED E	0269 01DD	ἲ	Ք	0569	ARMENIAN SMALL LETTER TO	4	BJ	4	MT	Not Variant
		ἲ	ք			4	BJ	4	MT	
		ἲ	ք			4	BJ	4	MT	
LATIN SMALL LETTER L + LATIN SMALL LETTER SCWHA	006C 0259	ἲ	Ք	0569	ARMENIAN SMALL LETTER TO	4	BJ	4	MT	Not Variant
		ἲ	ք			4	BJ	4	MT	
		ἲ	ք			4	BJ	4	MT	
LATIN SMALL LETTER L + LATIN SMALL LETTER TURNED E	006C 01DD	ἲ	Ք	0569	ARMENIAN SMALL LETTER TO	4	BJ	4	MT	Not Variant
		ἲ	ք			4	BJ	4	MT	
		ἲ	ք			4	BJ	4	MT	
LATIN SMALL LETTER L WITH ACUTE + LATIN SMALL LETTER SCWHA	013A 0259	ἲ	Ք	0569	ARMENIAN SMALL LETTER TO	4	BJ	4	MT	Not Variant
		ἲ	ք			4	BJ	4	MT	
		ἲ	ք			4	BJ	4	MT	
LATIN SMALL LETTER L WITH ACUTE + LATIN SMALL LETTER TURNED	013A 01DD	ἲ	Ք	0569	ARMENIAN SMALL LETTER TO	4	BJ	4	MT	Not Variant
		ἲ	ք			4	BJ	4	MT	
		ἲ	ք			4	BJ	4	MT	
LATIN SMALL LETTER D	0064	Ḑ	Ժ	056A	ARMENIAN SMALL LETTER ZHE	3	DT	2	BJ	Not Variant
		Ḑ	ժ			3	DT	2	BJ	
		Ḑ	ժ			3	DT	3	BJ	
LATIN SMALL LETTER D WITH HOOK	0257	Ḑ	Ժ	056A	ARMENIAN SMALL LETTER ZHE	4	DT	2	BJ	Not Variant
		Ḑ	ժ			4	DT	3	BJ	
		Ḑ	ժ			4	DT	3	BJ	
LATIN SMALL LETTER D WITH STROKE	0111	Ḑ	Ժ	056A	ARMENIAN SMALL LETTER ZHE	4	DT	2	BJ	Not Variant
		Ḑ	ժ			4	DT	3	BJ	
		Ḑ	ժ			4	DT	3	BJ	
LATIN SMALL LETTER H	0068	Ḡ	Ի	056B	ARMENIAN SMALL LETTER INI	3	DT	2	BJ	Not Variant
		Ḡ	ի			3	DT	2	BJ	
		Ḡ	ի			3	DT	3	BJ	
LATIN SMALL LETTER THORN	00FE	Ṗ	Ի	056B	ARMENIAN SMALL LETTER INI	4	DT	3	BJ	Not Variant
		Ṗ	ի			4	DT	3	BJ	
		Ṗ	ի			4	DT	4	BJ	
LATIN SMALL LETTER L	006C	Ḳ	Լ	056C	ARMENIAN SMALL LETTER LIWN	4	DT	2	BJ	Not Variant
		Ḳ	լ			4	DT	2	BJ	
		Ḳ	լ			4	DT	3	BJ	
LATIN SMALL LETTER I + COMBINING MACRON BELOW	0069 0331	Ḳ	Լ	056C	ARMENIAN SMALL LETTER LIWN	4	DT	3	BJ	Not Variant
		Ḳ	լ			4	DT	3	BJ	
		Ḳ	լ			4	DT	3	BJ	
LATIN SMAL LETTER H + LATIN SMALL LETTER U	0068 0075		Խ	056D	ARMENIAN SMALL LETTER XEH	5	DT	5	BJ	Not Variant
			խ			5	DT	5	BJ	
			խ			5	DT	5	BJ	
LATIN SMAL LETTER H + LATIN SMALL LETTER U	0068 00F9	Ḳ	Խ	056D	ARMENIAN SMALL LETTER XEH	4	DT	2	BJ	Not Variant
		Ḳ	խ			4	DT	2	BJ	
		Ḳ	խ			4	DT	4	BJ	
LATIN SMAL LETTER H + LATIN SMALL LETTER U WITH GRAVE	0068 00F9	Ḳ	Խ	056D	ARMENIAN SMALL LETTER XEH	4	DT	3	BJ	Not Variant
		Ḳ	խ			4	DT	3	BJ	
		Ḳ	խ			4	DT	4	BJ	

Latin			Armenian			First		Second		GP Decision
Unicode Name	Unicode Code Point	Glyph	Glyph	Unicode Code Point	Unicode Name	Score	Inspector	Score	Inspector	
LATIN SMALL LETTER H + LATIN SMALL LETTER U WITH OGONEK	0068 0173	ḥ	խ	056D	ARMENIAN SMALL LETTER XEH	4	DT	3	BJ	Not Variant
		ḥ	խ			4	DT	3	BJ	
		ḥ	խ			4	DT	4	BJ	
LATIN SMALL LETTER H + LATIN SMALL LETTER V WITH HOOK	0068 028B	h̥	խ	056D	ARMENIAN SMALL LETTER XEH	4	DT	3	BJ	Not Variant
		h̥	խ			4	DT	3	BJ	
		h̥	խ			4	DT	4	BJ	
LATIN SMALL LETTER THORN + LATIN SMALL LETTER U	00FE 0075	þ̣	խ	056D	ARMENIAN SMALL LETTER XEH	4	DT	3	BJ	Not Variant
		þ̣	խ			4	DT	3	BJ	
		þ̣	խ			4	DT	4	BJ	
LATIN SMALL LETTER THORN + LATIN SMALL LETTER U WITH GRAVE	00FE 00F9	þ̈	խ	056D	ARMENIAN SMALL LETTER XEH	4	DT	3	BJ	Not Variant
		þ̈	խ			4	DT	3	BJ	
		þ̈	խ			4	DT	4	BJ	
LATIN SMALL LETTER THORN + LATIN SMALL LETTER U WITH OGONEK	00FE 0173	þ̣	խ	056D	ARMENIAN SMALL LETTER XEH	4	DT	4	BJ	Not Variant
		þ̣	խ			4	DT	4	BJ	
		þ̣	խ			4	DT	4	BJ	
LATIN SMALL LETTER THORN + LATIN SMALL LETTER V WITH HOOK	00FE 028B	þ̥	խ	056D	ARMENIAN SMALL LETTER XEH	4	DT	4	BJ	Not Variant
		þ̥	խ			4	DT	4	BJ	
		þ̥	խ			4	DT	4	BJ	
LATIN SMALL LETTER ETH	00F0	ð	ծ	056E	ARMENIAN SMALL LETTER CA	3	DT	2	BJ	Not Variant
		ð	ծ			3	DT	2	BJ	
		ð	ծ			3	DT	2	BJ	
LATIN SMALL LETTER O WITH DOT BELOW WITH COMBINING GRAVE	1ECD 0300	ṏ	ծ	056E	ARMENIAN SMALL LETTER CA	4	DT	3	BJ	Not Variant
		ṏ	ծ			4	DT	3	BJ	
		ṏ	ծ			4	DT	4	BJ	
LATIN SMALL LETTER U WITH OGONEK	0173	ȳ	կ	056F	ARMENIAN SMALL LETTER KEN	4	DT	3	BJ	Not Variant
		ȳ	կ			4	DT	3	BJ	
		ȳ	կ			4	DT	3	BJ	
LATIN SMALL LETTER H	0068	h	հ	0570	ARMENIAN SMALL LETTER HO	2	DT	1	BJ	Variant
		h	հ			1	DT	1	BJ	
		h	հ			2	DT	1	BJ	
LATIN SMALL LETTER A WITH BREVE	0103	ă	ա	0571	ARMENIAN SMALL LETTER JA	4	DT	3	BJ	Not Variant
		ă	ա			4	DT	3	BJ	
		ă	ա			4	DT	4	BJ	
LATIN SMALL LETTER D WITH TAIL	0256	ɖ	ա	0571	ARMENIAN SMALL LETTER JA	4	DT	4	BJ	Not Variant
		ɖ	ա			4	DT	4	BJ	
		ɖ	ա			4	DT	4	BJ	
LATIN SMALL LETTER O WITH DOT BELOW WITH COMBINING GRAVE	1ECD 0300	ṏ	ա	0571	ARMENIAN SMALL LETTER JA	4	DT	3	BJ	Not Variant
		ṏ	ա			4	DT	4	BJ	
		ṏ	ա			4	DT	4	BJ	
LATIN SMALL LETTER ENG	014B	ɱ	ղ	0572	ARMENIAN SMALL LETTER GHAD	4	DT	3	BJ	Not Variant
		ɱ	ղ			3	DT	3	BJ	
		ɱ	ղ			4	DT	3	BJ	
LATIN SMALL LETTER B WITH HOOK	0253	ɸ	ճ	0573	ARMENIAN SMALL LETTER CHEH	4	DT	3	BJ	Not Variant
		ɸ	ճ			4	DT	3	BJ	
		ɸ	ճ			4	DT	3	BJ	
LATIN SMALL LETTER U WITH HORN	01B0	ṽ	ւ	0574	ARMENIAN SMALL LETTER MEN	3	MM	4	DT	Not Variant
		ṽ	ւ			4	MM	4	DT	
		ṽ	ւ			3	MM	4	DT	
LATIN SMALL LETTER J	006A	j	յ	0575	ARMENIAN SMALL LETTER YI	2	MM	4	DT	Not Variant
		j	յ			2	MM	4	DT	
		j	յ			2	MM	4	DT	

Latin			Armenian			First		Second		GP Decision
Unicode Name	Unicode Code Point	Glyph	Glyph	Unicode Code Point	Unicode Name	Score	Inspector	Score	Inspector	
			ի	0576	ARMENIAN SMALL LETTER NOW	5	MM	5	DT	Not Variant
			ւ			5	MM	5	DT	
			ւ			5	MM	5	DT	
			շ	0577	ARMENIAN SMALL LETTER SHA		MM	5	DT	Not Variant
			շ				MM	5	DT	
			շ				MM	5	DT	
LATIN SMALL LETTER N	006E	ն	ն	0578	ARMENIAN SMALL LETTER VO	1	MM	2	DT	Variant
		ն	ն			1	MM	1	DT	
		ն	ն			1	MM	2	DT	
			չ	0579	ARMENIAN SMALL LETTER CHA	5	MM	5	DT	Not Variant
			չ			5	MM	5	DT	
			չ			5	MM	5	DT	
LATIN SMALL LETTER U + LATIN SMALL LETTER U WITH OGONEK	0075 0173	ւյ	ւյ	057A	ARMENIAN SMALL LETTER PEH	4	MM	4	DT	Not Variant
		ւյ	ւյ			4	MM	4	DT	
		ւյ	ւյ			3	MM	4	DT	
			ջ	057B	ARMENIAN SMALL LETTER JHEH	5	MM	4	DT	Not Variant
			ջ			5	MM	4	DT	
			ջ			5	MM	4	DT	
			ռ	057C	ARMENIAN SMALL LETTER RA	5	MM	5	DT	Not Variant
			ռ			5	MM	5	DT	
			ռ			5	MM	5	DT	
LATIN SMALL LETTER U	0075	ւ	ւ	057D	ARMENIAN SMALL LETTER SEH	1	MB	1	MM	Variant
		ւ	ւ			1	MB	1	MM	
		ւ	ւ			1	MB	1	MM	
LATIN SMALL LETTER IOTA + LATIN SMALL LETTER L	0269 006C	լ	լ	057E	ARMENIAN SMALL LETTER VEW	3	MB	2	MM	Not Variant
		լ	լ			4	MB	4	MM	
		լ	լ			4	MB	4	MM	
LATIN SMALL LETTER IOTA + LATIN LETTER DENTAL CLICK	0269 01C0	լ	լ	057E	ARMENIAN SMALL LETTER VEW	4	MB	4	MM	Not Variant
		լ	լ			4	MB	4	MM	
		լ	լ			4	MB	4	MM	
LATIN SMALL LETTER U + LATIN SMALL LETTER N	0075 006E	ւն	ւն	057F	ARMENIAN SMALL LETTER TWN	4	MB	3	MM	Not Variant
		ւն	ւն			4	MB	2	MM	
		ւն	ւն			4	MB	4	MM	
LATIN SMALL LETTER N WITH LEFT HOOK	0272	ր	ր	0580	ARMENIAN SMALL LETTER REH	3	MB	3	MM	Not Variant
		ր	ր			3	MB	3	MM	
		ր	ր			3	MB	3	MM	
LATIN SMALL LETTER G	0067	գ	գ	0581		3	MB	2	MM	Variant
		գ	գ			1	MB	1	MM	
		գ	գ			1	MB	1	MM	
LATIN SMALL LETTER IOTA	0269	լ	լ	0582	ARMENIAN SMALL LETTER YIWN	3	MB	2	MM	Variant
		լ	լ			3	MB	2	MM	
		լ	լ			3	MB	3	MM	
LATIN SMALL LETTER IOTA + LATIN SMALL LETTER H	0269 0068	իհ	իհ	0583	ARMENIAN SMALL LETTER PIWR	3	MB	3	MM	Not Variant
		իհ	իհ			4	MB	4	MM	
		իհ	իհ			4	MB	4	MM	
LATIN SMALL LETTER P	0070	ք	ք	0584	ARMENIAN SMALL LETTER KEH	4	MB	4	MM	Not Variant
		ք	ք			4	MB	4	MM	
		ք	ք			4	MB	4	MM	
LATIN SMALL LETTER O	006F	օ	օ	0585	ARMENIAN SMALL LETTER OH	1	MB	1	MM	Variant
		օ	օ			1	MB	1	MM	
		օ	օ			1	MB	1	MM	
			ֆ	0586	ARMENIAN SMALL LETTER FEH	5	MB	5	MM	Not Variant
			ֆ			5	MB	5	MM	
			ֆ			5	MB	5	MM	

D.9.4. Cyrillic – Latin Cross-Script Variant Analysis

Latin			Cyrillic			First		Second		GP Decision
Unicode Name	Unicode Code Point	Glyph	Glyph	Unicode Code Point	Unicode Name	Score	Inspector	Score	Inspector	
LATIN SMALL LETTER A	0061	a	а	0430	CYRILLIC SMALL LETTER A	1	BJ	1	DT	Variant
		a	а			1	BJ	1	DT	
		a	а			1	BJ	1	DT	
			б	0431	CYRILLIC SMALL LETTER BE	5	BJ	5	DT	Not Variant
			б			5	BJ	5	DT	
			б			5	BJ	5	DT	
LATIN SMALL LETTER B	0062	b	в	0432	CYRILLIC SMALL LETTER VE	2	BJ	4	DT	Not Variant
		b	в			2	BJ	4	DT	
		b	в			2	BJ	4	DT	
LATIN SMALL LETTER R	0072	r	г	0433	CYRILLIC SMALL LETTER GHE	2	BJ	2	DT	Variant
		r	г			2	BJ	2	DT	
		r	г			3	BJ	3	DT	
			д	0434	CYRILLIC SMALL LETTER DE	5	BJ	5	DT	Not Variant
			д			5	BJ	5	DT	
			д			5	BJ	5	DT	
LATIN SMALL LETTER E	0065	e	е	0435	CYRILLIC SMALL LETTER IE	1	BJ	1	DT	Variant
		e	е			1	BJ	1	DT	
		e	е			1	BJ	1	DT	
			ж	0436	CYRILLIC SMALL LETTER ZHE	5	BJ	5	DT	Not Variant
			ж			5	BJ	5	DT	
			ж			5	BJ	5	DT	
			з	0437	CYRILLIC SMALL LETTER ZE	5	BJ	5	DT	Not Variant
			з			5	BJ	5	DT	
			з			5	BJ	5	DT	
			и	0438	CYRILLIC SMALL LETTER I	5	BJ	5	DT	Not Variant
			и			5	BJ	5	DT	
			и			5	BJ	5	DT	
			й	0439	CYRILLIC SMALL LETTER SHORT I	5	BJ	5	DT	Not Variant
			й			5	BJ	5	DT	
			й			5	BJ	5	DT	
LATIN SMALL LETTER K	006B	k	к	043A	CYRILLIC SMALL LETTER KA	3	BJ	3	DT	Not Variant
		k	к			2	BJ	3	DT	
		k	к			3	BJ	3	DT	
			л	043B	CYRILLIC SMALL LETTER EL	5	BJ	5	DT	Not Variant
			л			5	BJ	5	DT	
			л			5	BJ	5	DT	
LATIN SMALL LETTER M	006D	m	м	043C	CYRILLIC SMALL LETTER EM	2	BJ	4	DT	Not Variant
		m	м			2	BJ	4	DT	
		m	м			2	BJ	4	DT	
LATIN SMALL LETTER H	0068	h	н	043D	CYRILLIC SMALL LETTER EN	2	BJ	4	DT	Not Variant
		h	н			2	BJ	4	DT	
		h	н			2	BJ	4	DT	
LATIN SMALL LETTER O	006F	o	о	043E	CYRILLIC SMALL LETTER O	1	BJ	1	DT	Variant
		o	о			1	BJ	1	DT	
		o	о			1	BJ	1	DT	
			п	043F	CYRILLIC SMALL LETTER PE	5	BJ	5	DT	Not Variant
			п			5	BJ	5	DT	
			п			5	BJ	5	DT	
LATIN SMALL LETTER P	0070	p	р	0440	CYRILLIC SMALL LETTER ER	1	BJ	1	DT	Variant
		p	р			1	BJ	1	DT	
		p	р			1	BJ	1	DT	
LATIN SMALL LETTER C	0063	c	с	0441	CYRILLIC SMALL LETTER ES	1	BJ	1	DT	Variant
		c	с			1	BJ	1	DT	
		c	с			1	BJ	1	DT	

Latin				Cyrillic		First		Second		GP Decision
Unicode Name	Unicode Code Point	Glyph	Glyph	Unicode Code Point	Unicode Name	Score	Inspector	Score	Inspector	
LATIN SMALL LETTER T	0074	t	Т	0442	CYRILLIC SMALL LETTER TE	2	BJ	4	DT	Not Variant
		t	Т			2	BJ	4	DT	
		t	Т			2	BJ	4	DT	
LATIN SMALL LETTER Y	0079	y	У	0443	CYRILLIC SMALL LETTER U	1	BJ	1	DT	Variant
		y	У			1	BJ	1	DT	
		y	У			1	BJ	1	DT	
			Ф	0444	CYRILLIC SMALL LETTER EF	5	BJ	5	DT	Not Variant
			Ф			5	BJ	5	DT	
			Ф			5	BJ	5	DT	
LATIN SMALL LETTER X	0078	x	Х	0445	CYRILLIC SMALL LETTER HA	1	DT	1	MM	Variant
		x	Х			1	DT	1	MM	
		x	Х			1	DT	1	MM	
			Ц	0446	CYRILLIC SMALL LETTER TSE	5	DT	5	MM	Not Variant
			Ц			5	DT	5	MM	
			Ц			5	DT	5	MM	
LATIN SMALL LETTER U WITH OGONEK	0173	ų	Ч	0447	CYRILLIC SMALL LETTER CHE	4	DT	4	MM	Not Variant
		ų	Ч			4	DT	4	MM	
		ų	Ч			4	DT	4	MM	
			Ш	0448	CYRILLIC SMALL LETTER SHA	5	DT	5	MM	Not Variant
			Ш			5	DT	5	MM	
			Ш			5	DT	5	MM	
			Щ	0449	CYRILLIC SMALL LETTER SHCHA	5	DT	5	MM	Not Variant
			Щ			5	DT	5	MM	
			Щ			5	DT	5	MM	
LATIN SMALL LETTER B	0062	b	Ъ	044A	CYRILLIC SMALL LETTER HARD SIGN	4	DT	4	MM	Not Variant
		b	Ъ			4	DT	4	MM	
		b	Ъ			4	DT	3	MM	
LATIN SMALL LETTER B + LATIN SMALL LETTER L	0062 006C	bl	Ы	044B	CYRILLIC SMALL LETTER YERU	5	DT	3	MM	Not Variant
		bl	Ы			5	DT	2	MM	
		bl	Ы			5	DT	3	MM	
LATIN SMALL LETTER B	0062	b	Ь	044C	CYRILLIC SMALL LETTER SOFT SIGN	3	DT	3	MM	Not Variant*
		b	Ь			3	DT	2	MM	
		b	Ь			3	DT	2	MM	
LATIN SMALL LETTER SCHWA	0259	ə	Э	044D	CYRILLIC SMALL LETTER E	4	DT	4	MM	Not Variant
		ə	Э			4	DT	4	MM	
		ə	Э			4	DT	4	MM	
LATIN SMALL LETTER I + LATIN SMALL LETTER O	0069 006F	io	Ю	044E	CYRILLIC SMALL LETTER YU	5	DT	4	MM	Not Variant
		io	Ю			5	DT	4	MM	
		io	Ю			5	DT	4	MM	
			Я	044F	CYRILLIC SMALL LETTER YA	5	DT	5	MM	Not Variant
			Я			5	DT	5	MM	
			Я			5	DT	5	MM	
LATIN SMALL LETTER E WITH DIAERESIS	00EB	ë	Ё	0451	CYRILLIC SMALL LETTER IO	1	DT	1	MM	Variant
		ë	Ё			1	DT	1	MM	
		ë	Ё			1	DT	1	MM	
LATIN SMALL LETTER H WITH STROKE	0127	ħ	Һ	0452	CYRILLIC SMALL LETTER DJE	4	DT	4	MM	Not Variant
		ħ	Һ			4	DT	4	MM	
		ħ	Һ			4	DT	4	MM	

*Decided as 'similar' based on additional discussion with the Cyrillic GP as well as consultations with the IP.

Latin				Cyrillic		First		Second		GP Decision
Unicode Name	Unicode Code Point	Glyph	Glyph	Unicode Code Point	Unicode Name	Score	Inspector	Score	Inspector	
LATIN SMALL LETTER R WITH ACUTE	0155	ŕ	ŕ́	0453	CYRILLIC SMALL LETTER GJE	2	DT	1	MM	Variant
		ŕ	ŕ			3	DT	2	MM	
		ŕ	ŕ́			3	DT	3	MM	
LATIN SMALL LETTER OPEN E	025B	ɛ	е	0454	CYRILLIC SMALL LETTER UKRAINIAN IE	3	DT	2	MM	Not Variant*
		ɛ	е			3	DT	3	MM	
		ɛ	е			3	DT	2	MM	
LATIN SMALL LETTER S	0073	s	с	0455	CYRILLIC SMALL LETTER DZE	1	DT	1	MM	Variant
		s	с			1	DT	1	MM	
		s	с			1	DT	1	MM	
LATIN SMALL LETTER I	0069	i	і	0456	CYRILLIC SMALL LETTER BYELORUSSIAN-	1	DT	1	MM	Variant
		i	і			1	DT	1	MM	
		i	і			1	DT	1	MM	
LATIN SMALL LETTER I WITH DIAERESIS	00EF	ï	ї	0457	CYRILLIC SMALL LETTER YI	1	DT	2	MM	Variant
		ï	ї			1	DT	1	MM	
		ï	ї́			1	DT	1	MM	
LATIN SMALL LETTER J	006A	j	ј	0458	CYRILLIC SMALL LETTER JE	1	DT	1	MM	Variant
		j	ј			1	DT	1	MM	
		j	ј			1	DT	1	MM	
			љ	0459	CYRILLIC SMALL LETTER LJE	5	DT	5	MM	Not Variant
			љ			5	DT	5	MM	
			љ			5	DT	5	MM	
			њ	045A	CYRILLIC SMALL LETTER NJE	5	DT	5	MM	Not Variant
			њ			5	DT	5	MM	
			њ			5	DT	5	MM	
LATIN SMALL LETTER H WITH STROKE	0127	ħ	ћ	045B	CYRILLIC SMALL LETTER TSHE	1	DT	1	MM	Variant
		ħ	ћ			1	DT	1	MM	
		ħ	ћ			1	DT	1	MM	
			ќ	045C	CYRILLIC SMALL LETTER KJE	5	MM	5	MT	Not Variant
			ќ			5	MM	5	MT	
			ќ́			5	MM	5	MT	
			ѱ	045E	CYRILLIC SMALL LETTER SHORT U	5	MM	5	MT	Not Variant
			ѱ			5	MM	5	MT	
			ѱ̃			5	MM	5	MT	
ARABIC MATHEMATICAL OPERATOR HAH WITH DAL	1EF1	ﷲ	ﷲ	045F	CYRILLIC SMALL LETTER DZHE	3	MM	3	MT	Variant
		ﷲ	ﷲ			3	MM	3	MT	
		ﷲ	ﷲ			2	MM	2	MT	
ARABIC MATHEMATICAL TAILED AIN	1EE5	ﷲ	ﷲ	045F	CYRILLIC SMALL LETTER DZHE					Not Variant
		ﷲ	ﷲ							
		ﷲ	ﷲ							
			г	0491	CYRILLIC SMALL LETTER GHE WITH UPTURN	5	MM	5	MT	Not Variant
			ѓ			5	MM	5	MT	
			ѓ			5	MM	5	MT	
LATIN SMALL LETTER R WITH STROKE	024D	ŕ	ŕ	0493	CYRILLIC SMALL LETTER GHE WITH STROKE	2	MM	3	MT	Variant
		ŕ	ŕ			2	MM	2	MT	
		ŕ	ŕ́			4	MM	4	MT	

*Decided as 'similar' based on additional discussion with the Cyrillic GP as well as consultations with the IP.

Latin			Cyrillic			First		Second		GP Decision
Unicode Name	Unicode Code Point	Glyph	Glyph	Unicode Code Point	Unicode Name	Score	Inspector	Score	Inspector	
LATIN SMALL LETTER B WITH HOOK	0253	ḃ	ḃ	0495	CYRILLIC SMALL LETTER GHE WITH MIDDLE HOOK	4	MM	4	MT	Not Variant
		Ḅ	Ḅ			3	MM	3	MT	
		ḅ	ḅ			4	MM	4	MT	
			ґ	0497	CYRILLIC SMALL LETTER ZHE WITH DESCENDER	5	MM	5	MT	Not Variant
			ґ			5	MM	5	MT	
			ґ			5	MM	5	MT	
			ґ	0499	CYRILLIC SMALL LETTER ZE WITH DESCENDER	5	MM	5	MT	Not Variant
			ґ			5	MM	5	MT	
			ґ			5	MM	5	MT	
			ґ	049B	CYRILLIC SMALL LETTER KA WITH DESCENDER	5	MM	5	MT	Not Variant
			ґ			5	MM	5	MT	
			ґ			5	MM	5	MT	
LATIN SMALL LETTER K WITH HOOK + LATIN SMALL LETTER SALTILO	0199 A78C	ḱ	ḱ	049F	CYRILLIC SMALL LETTER KA WITH STROKE		MM	4	MT	Not Variant
		Ḳ	Ḳ				MM	4	MT	
		ḳ	ḳ				MM	4	MT	
			ґ	04A1	CYRILLIC SMALL LETTER BASHKIR KA	5	MM	5	MT	Not Variant
			ґ			5	MM	5	MT	
			ґ			5	MM	5	MT	
			ґ	04A3	CYRILLIC SMALL LETTER EN WITH DESCENDER	5	MM	5	MT	Not Variant
			ґ			5	MM	5	MT	
			ґ			5	MM	5	MT	
			ґ	04A5	CYRILLIC SMALL LIGATURE EN GHE	5	MM	5	MT	Not Variant
			ґ			5	MM	5	MT	
			ґ			5	MM	5	MT	
			ґ	04A9	CYRILLIC SMALL LETTER ABKHASIAN HA	5	MM	5	MT	Not Variant
			ґ			5	MM	5	MT	
			ґ			5	MM	5	MT	
LATIN SMALL LETTER C WITH CEDILLA	00E7	ç	ç	04AB	CYRILLIC SMALL LETTER ES WITH DESCENDER	1	MM	2	MT	Variant
		ç	ç			1	MM	2	MT	
		ç	ç			1	MM	2	MT	
			ґ	04AD	CYRILLIC SMALL LETTER TE WITH DESCENDER	5	MM	5	MT	Not Variant
			ґ			5	MM	5	MT	
			ґ			5	MM	5	MT	
LATIN SMALL LETTER Y	0079	ŷ	ŷ	04AF	CYRILLIC SMALL LETTER STRAIGHT U	3	MM	2	MT	Variant
		ŷ	ŷ			2	MM	2	MT	
		ŷ	ŷ			2	MM	2	MT	
			ґ	04B1	CYRILLIC SMALL LETTER STRAIGHT U WITH STROKE	5	MM	5	MT	Not Variant
			ґ			5	MM	5	MT	
			ґ			5	MM	5	MT	
LATIN SMALL LETTER X	0078	x	ґ	04B3	CYRILLIC SMALL LETTER HA WITH DESCENDER	2	MM	3	MT	Not Variant*
		x	ґ			3	MM	3	MT	
		x	ґ			2	MM	3	MT	
			ґ	04B5	CYRILLIC SMALL LIGATURE TE TSE	5	MM	5	MT	Not Variant
			ґ			5	MM	5	MT	
			ґ			5	MM	5	MT	
			ґ	04B7	CYRILLIC SMALL LETTER CHE WITH DESCENDER	5	MM	5	MT	Not Variant
			ґ			5	MM	5	MT	
			ґ			5	MM	5	MT	
LATIN SMALL LETTER H	0068	h	h	04BB	CYRILLIC SMALL LETTER SHHA	1	MB	1	BJ	Variant
		h	h			1	MB	1	BJ	
		h	h			1	MB	1	BJ	

*Decided as 'similar' based on additional discussion with the Cyrillic GP as well as consultations with the IP.

Latin			Cyrillic			First		Second		GP Decision
Unicode Name	Unicode Code Point	Glyph	Glyph	Unicode Code Point	Unicode Name	Score	Inspector	Score	Inspector	
LATIN SMALL LETTER E	0065	é	е	04BD	CYRILLIC SMALL LETTER	5	MB	2	BJ	Not Variant
		ē	е̄		ABKHASIAN CHE	5	MB	2	BJ	
		ë	ё		ABKHASIAN CHE	5	MB	2	BJ	
MENDE KIKAKUI COMBINING NUMBER MILLIONS	1EC1	è	е̊	04BD	CYRILLIC SMALL LETTER	4	MT	4	BJ	Not Variant
		ē	е̄		ABKHASIAN CHE	4	MT	4	BJ	
		ë	ё		ABKHASIAN CHE	4	MT	4	BJ	
LATIN SMALL LETTER E WITH GRAVE	00E8	è	е̊	04BD	CYRILLIC SMALL LETTER	4	MT	4	BJ	Not Variant
		ē	е̄		ABKHASIAN CHE	4	MT	4	BJ	
		ë	ё		ABKHASIAN CHE	4	MT	4	BJ	
MENDE KIKAKUI COMBINING NUMBER MILLIONS	1EB9	ē	е̄	04BF	CYRILLIC SMALL LETTER	5	MB	2	BJ	Not Variant
		ē	е̄		ABKHASIAN CHE	5	MB	2	BJ	
		ē	е̄		ABKHASIAN CHE	5	MB	2	BJ	
LATIN SMALL LETTER E WITH DOT BELOW + COMBINING GRAVE	1EB9 + 0300	è̇	е̊̇	04BF	CYRILLIC SMALL LETTER	3	MT	3	BJ	Not Variant
		è̇	е̊̇		ABKHASIAN CHE	3	MT	3	BJ	
		è̇	е̊̇		ABKHASIAN CHE	3	MT	3	BJ	
LATIN SMALL LETTER L	006C	l	л	04CF	CYRILLIC SMALL LETTER PALOCHKA	1	MB	1	BJ	Variant
		l	л		CYRILLIC SMALL LETTER PALOCHKA	1	MB	1	BJ	
		l	л		CYRILLIC SMALL LETTER PALOCHKA	1	MB	1	BJ	
LATIN SMALL LETTER IOTA	0269	ı	І	04CF	CYRILLIC SMALL LETTER PALOCHKA	3	MT	3	BJ	Not Variant
		ı	І		CYRILLIC SMALL LETTER PALOCHKA	3	MT	3	BJ	
		ı	І		CYRILLIC SMALL LETTER PALOCHKA	2	MT	3	BJ	
LATIN SMALL LETTER A WITH BREVE	0103	ă	а̃	04D1	CYRILLIC SMALL LETTER A WITH BREVE	1	MB	1	BJ	Variant
		ă	а̃		CYRILLIC SMALL LETTER A WITH BREVE	1	MB	1	BJ	
		ă	а̃		CYRILLIC SMALL LETTER A WITH BREVE	1	MB	1	BJ	
LATIN SMALL LETTER A WITH DIAERESIS	00E4	ä	ӓ	04D3	CYRILLIC SMALL LETTER A WITH DIAERESIS	1	MB	1	BJ	Variant
		ä	ӓ		CYRILLIC SMALL LETTER A WITH DIAERESIS	1	MB	1	BJ	
		ä	ӓ		CYRILLIC SMALL LETTER A WITH DIAERESIS	1	MB	1	BJ	
LATIN SMALL LETTER AE	00E6	æ	æ	04D5	CYRILLIC SMALL LIGATURE A IE	1	MB	1	BJ	Variant
		æ	æ		CYRILLIC SMALL LIGATURE A IE	1	MB	1	BJ	
		æ	æ		CYRILLIC SMALL LIGATURE A IE	1	MB	1	BJ	
LATIN SMALL LETTER E WITH BREVE	0115	ě	е̋	04D7	CYRILLIC SMALL LETTER IE WITH BREVE	1	MB	1	BJ	Not Variant**
		ě	е̋		CYRILLIC SMALL LETTER IE WITH BREVE	1	MB	1	BJ	
		ě	е̋		CYRILLIC SMALL LETTER IE WITH BREVE	1	MB	1	BJ	
LATIN SMALL LETTER TURNED E	01DD	ə̃	е̃	04D9	CYRILLIC SMALL LETTER SCHWA	1	MB	1	BJ	Variant
		ə̃	е̃		CYRILLIC SMALL LETTER SCHWA	1	MB	1	BJ	
		ə̃	е̃		CYRILLIC SMALL LETTER SCHWA	1	MB	1	BJ	
LATIN SMALL LETTER SCHWA	0259	ə̃	е̃	04D9	CYRILLIC SMALL LETTER SCHWA	1	MB	1	BJ	Variant
		ə̃	е̃		CYRILLIC SMALL LETTER SCHWA	1	MB	1	BJ	
		ə̃	е̃		CYRILLIC SMALL LETTER SCHWA	1	MB	1	BJ	
			ж̃	04DD	CYRILLIC SMALL LETTER ZHE WITH DIAERESIS	5	MB	5	BJ	Not Variant
			ж̃		CYRILLIC SMALL LETTER ZHE WITH DIAERESIS	5	MB	5	BJ	
			ж̃		CYRILLIC SMALL LETTER ZHE WITH DIAERESIS	5	MB	5	BJ	
			з̃	04DF	CYRILLIC SMALL LETTER ZE WITH DIAERESIS	5	MB	5	BJ	Not Variant
			з̃		CYRILLIC SMALL LETTER ZE WITH DIAERESIS	5	MB	5	BJ	
			з̃		CYRILLIC SMALL LETTER ZE WITH DIAERESIS	5	MB	5	BJ	

**The code point is not in the repertoire

Latin				Cyrillic		First		Second		GP Decision
Unicode Name	Unicode Code Point	Glyph	Glyph	Unicode Code Point	Unicode Name	Score	Inspector	Score	Inspector	
LATIN SMALL LETTER EZH	0292	ž	ѣ	04E1	CYRILLIC SMALL LETTER	1	MB	1	BJ	Variant
		ž	ѣ		ABKHASIAN DZE	1	MB	1	BJ	
		ž	ѣ			1	MB	1	BJ	
			ѣ	04E3	CYRILLIC SMALL LETTER I WITH MACRON	5	MB	5	BJ	Not Variant
			ѣ			5	MB	5	BJ	
			ѣ			5	MB	5	BJ	
			ѣ	04E5	CYRILLIC SMALL LETTER I WITH DIAERESIS	5	MB	5	BJ	Not Variant
			ѣ			5	MB	5	BJ	
			ѣ			5	MB	5	BJ	
LATIN SMALL LETTER O WITH DIAERESIS	00F6	ö	ѐ	04E7	CYRILLIC SMALL LETTER O WITH DIAERESIS	1	MB	1	BJ	Variant
		ö	ѐ			1	MB	1	BJ	
		ö	ѐ			1	MB	1	BJ	
			ѐ	04E9	CYRILLIC SMALL LETTER BARRED O	5	MB	5	BJ	Not Variant
			ѐ			5	MB	5	BJ	
			ѐ			5	MB	5	BJ	
ARABIC MATHEMATICAL OPERATOR HAH WITH DAL	1EF9	ẏ	Ѹ	04EF	CYRILLIC SMALL LETTER U WITH MACRON	3	MB	2	BJ	Variant
		ẏ	Ѹ			3	MB	2	BJ	
		ẏ	Ѹ			3	MB	2	BJ	
ARABIC MATHEMATICAL OPERATOR HAH WITH DAL	1EF9	ẏ	Ѹ	04F1	CYRILLIC SMALL LETTER U WITH DIAERESIS	3	MB	3	BJ	Not Variant
		ẏ	Ѹ			3	MB	3	BJ	
		ẏ	Ѹ			3	MB	3	BJ	
LATIN SMALL LETTER Y WITH DIAERESIS	00FF	ÿ	ѹ	04F1	CYRILLIC SMALL LETTER U WITH DIAERESIS	2		2		Variant
		ÿ	ѹ			2		2		
		ÿ	ѹ			2		2		
ARABIC MATHEMATICAL OPERATOR HAH WITH DAL	1EF9	ẏ	Ѹ	04F3	CYRILLIC SMALL LETTER U WITH DOUBLE ACUTE	3	MB	3	BJ	Not Variant
		ẏ	Ѹ			3	MB	3	BJ	
		ẏ	Ѹ			3	MB	3	BJ	
LATIN SMALL LETTER U WITH OGONEK	0173	ų	Ѻ	04F5	CYRILLIC SMALL LETTER CHE WITH DIAERESIS	5	MB	4	BJ	Not Variant
		ų	Ѻ			5	MB	4	BJ	
		ų	Ѻ			5	MB	4	BJ	
LATIN SMALL LETTER B + LATIN SMALL LETTER I WITH DIAERESIS	0062 00EF	bi	Ѣ	04F9	CYRILLIC SMALL LETTER YERU WITH DIAERESIS	5	MB	5	BJ	Not Variant
		bi	Ѣ			5	MB	5	BJ	
		bi	Ѣ			5	MB	5	BJ	
LATIN SMALL LETTER N	006E	n	Ѧ	0525	CYRILLIC SMALL LETTER PE WITH DESCENDER	4	MB	4	BJ	Not Variant
		n	Ѧ			4	MB	3	BJ	
		n	Ѧ			4	MB	3	BJ	

D.9.5. Greek – Latin Cross-Script Variant Analysis

Latin			Greek			First		Second		GP Decision
Unicode Name	Unicode Code Point	Glyph	Glyph	Unicode Code Point	Unicode Name	Score	Inspector	Score	Inspector	
LATIN SMALL LETTER I WITH DIAERESIS	00EF	ï	ï	0390	GREEK SMALL LETTER IOTA	2	BJ	2	MM	Not Variant*
		ï	ï		WITH DIALYTIKA	2	BJ	2	MM	
		ï	ï			3	BJ	3	MM	
LATIN SMALL LETTER A WITH ACUTE	00E1	á	ά	03AC	GREEK SMALL LETTER ALPHA	2	BJ	2	MM	Variant
		á	ά		WITH TONOS	2	BJ	2	MM	
		á	ά			3	BJ	2	MM	
LATIN SMALL LETTER OPEN E	025B	ε	έ	03AD	GREEK SMALL LETTER EPSILON	3	BJ	4	MM	Not Variant
		ε	έ		WITH TONOS	3	BJ	4	MM	
		ε	έ			3	BJ	4	MM	
LATIN SMALL LETTER N WITH ACUTE	0144	ñ	ή	03AE	GREEK SMALL LETTER ETA WITH TONOS	2	BJ	3	MM	Not Variant
		ñ	ή			2	BJ	3	MM	
		ñ	ή			2	BJ	3	MM	
LATIN SMALL LETTER I WITH ACUTE	00ED	í	ί	03AF	GREEK SMALL LETTER IOTA	1	BJ	1	MM	Variant
		í	ί		WITH TONOS	1	BJ	1	MM	
		í	ί			2	BJ	2	MM	
LATIN SMALL LETTER L WITH ACUTE	013A	ĺ	ι	03AF	GREEK SMALL LETTER IOTA	3	BJ	3	MM	
		ĺ	ι		WITH TONOS	3	BJ	2	MM	
		ĺ	ι			3	BJ	3	MM	
LATIN SMALL LETTER U WITH DIAERESIS	00FC	ü	ϋ	03B0	GREEK SMALL LETTER UPSILON	4	BJ	4	MM	Not Variant*
		ü	ϋ		WITH DIALYTIKA	4	BJ	2	MM	
		ü	ϋ			4	BJ	3	MM	
LATIN SMALL LETTER A	0061	a	α	03B1	GREEK SMALL LETTER ALPHA	2	BJ	2	MM	Variant
		a	α			2	BJ	2	MM	
		a	α			3	BJ	3	MM	
LATIN SMALL LETTER SHARP S	00DF	ß	β	03B2	GREEK SMALL LETTER BETA	2	BJ	2	MM	Variant
		ß	β			2	BJ	2	MM	
		ß	β			2	BJ	2	MM	
LATIN SMALL LETTER Y	0079	y	γ	03B3	GREEK SMALL LETTER GAMMA	2	BJ	2	MM	Variant
		y	γ			3	BJ	2	MM	
		y	γ			3	BJ	2	MM	
LATIN SMALL LETTER Y WITH HOOK	01B4	Ƴ	γ	03B3	GREEK SMALL LETTER GAMMA	3	BJ	3	MM	
		Ƴ	γ			3	BJ	3	MM	
		Ƴ	γ			3	BJ	3	MM	
LATIN SMALL LETTER ETH	00F0	ð	δ	03B4	GREEK SMALL LETTER DELTA	4	DT	4	MT	Not Variant
		ð	δ			4	DT	4	MT	
		ð	δ			3	DT	3	MT	
LATIN SMALL LETTER OPEN E	025B	ε	ε	03B5	GREEK SMALL LETTER EPSILON	1	DT	1	MT	Variant
		ε	ε			1	DT	1	MT	
		ε	ε			2	DT	2	MT	
			ζ	03B6	GREEK SMALL LETTER ZETA	5	DT	5	MT	Not Variant
			ζ			5	DT	5	MT	
			ζ			5	DT	5	MT	
LATIN SMALL LETTER ENG	014B	ŋ	η	03B7	GREEK SMALL LETTER ETA	3	DT	3	MT	Not Variant
		ŋ	η			3	DT	3	MT	
		ŋ	η			3	DT	3	MT	
			θ	03B8	GREEK SMALL LETTER THETA	5	DT	5	MT	Not Variant
			θ			5	DT	5	MT	
			θ			5	DT	5	MT	

*Decided as 'similar' based on additional discussion with the Greek GP as well as consultations with the IP.

Latin			Greek			First		Second		GP Decision
Unicode Name	Unicode Code Point	Glyph	Glyph	Unicode Code Point	Unicode Name	Score	Inspector	Score	Inspector	
LATIN SMALL LETTER IOTA	0269	ι	ι	03B9	GREEK SMALL LETTER IOTA	1	DT	1	MT	Variant
		ι	ι			1	DT	2	MT	
		ι	ι			1	DT	1	MT	
LATIN SMALL LETTER DOTLESS I	0131	ı	ı	03B9	GREEK SMALL LETTER IOTA					
		ı	ı							
		ı	ı							
LATIN SMALL LETTER L	006C	l	ι	03B9	GREEK SMALL LETTER IOTA	3	DT	3	MT	Not Variant
		l	ι			3	DT	3	MT	
		l	ι			4	DT	4	MT	
LATIN SMALL LETTER K	006B	k	κ	03BA	GREEK SMALL LETTER KAPPA	3	DT	3	MT	Not Variant
		k	κ			3	DT	3	MT	
		k	κ			3	DT	3	MT	
LATIN SMALL LETTER K WITH HOOK	0199	ķ	κ	03BA	GREEK SMALL LETTER KAPPA	3	DT	4	MT	Not Variant
		ķ	κ			3	DT	4	MT	
		ķ	κ			3	DT	3	MT	
			λ	03BB	GREEK SMALL LETTER LAMDA	5	DT	5	MT	Not Variant
			λ			5	DT	5	MT	
			λ			5	DT	5	MT	
LATIN SMALL LETTER U	0075	u	μ	03BC	GREEK SMALL LETTER MU	4	DT	4	MT	Not Variant
		u	μ			4	DT	4	MT	
		u	μ			4	DT	4	MT	
LATIN SMALL LETTER V	0076	v	ν	03BD	GREEK SMALL LETTER NU	1	MM	1	BJ	Variant
		v	ν			1	MM	1	BJ	
		v	ν			3	MM	2	BJ	
			ξ	03BE	GREEK SMALL LETTER XI	5	MM	5	BJ	Not Variant
			ξ			5	MM	5	BJ	
			ξ			5	MM	5	BJ	
LATIN SMALL LETTER O	006F	o	ο	03BF	GREEK SMALL LETTER OMICRON	1	MM	1	BJ	Variant
		o	ο			1	MM	1	BJ	
		o	ο			1	MM	1	BJ	
LATIN SMALL LETTER T + LATIN SMALL LETTER T	0074 0074	tt	π	03C0	GREEK SMALL LETTER PI	4	MM	3	BJ	Not Variant
		tt	π			3	MM	2	BJ	
		tt	π			4	MM	4	BJ	
LATIN SMALL LETTER P	0070	p	ρ	03C1	GREEK SMALL LETTER RHO	2	MM	2	BJ	Variant
		p	ρ			1	MM	1	BJ	
		p	ρ			2	MM	2	BJ	
LATIN SMALL LETTER C WITH CEDILLA	00E7	ç	ς	03C2	GREEK SMALL LETTER FINAL SIGMA	3	MM	2	BJ	Not Variant*
		ç	ς			3	MM	3	BJ	
		ç	ς			2	MM	2	BJ	
LATIN SMALL LETTER O WITH HORN	01A1	ø	σ	03C3	GREEK SMALL LETTER SIGMA	4	MM	2	BJ	Variant
		ø	σ			3	MM	3	BJ	
		ø	σ			2	MM	2	BJ	
LATIN SMALL LETTER T	0074	t	τ	03C4	GREEK SMALL LETTER TAU	4	MM	4	BJ	Not Variant
		t	τ			4	MM	3	BJ	
		t	τ			3	MM	4	BJ	
LATIN SMALL LETTER V WITH HOOK	028B	ʋ	υ	03C5	GREEK SMALL LETTER UPSILON	1	MM	1	BJ	Variant
		ʋ	υ			3	MM	2	BJ	
		ʋ	υ			2	MM	2	BJ	

*Decided as 'similar' based on additional discussion with the Greek GP as well as consultations with the IP.

Latin			Greek			First		Second		GP Decision
Unicode Name	Unicode Code Point	Glyph	Glyph	Unicode Code Point	Unicode Name	Score	Inspector	Score	Inspector	
LATIN SMALL LETTER U WITH HORN	01B0	ṽ	υ	03C5	GREEK SMALL LETTER UPSILON	4	MM	4	BJ	Not Variant
		ṽ	υ			4	MM	4	BJ	
		ṽ	υ			4	MM	4	BJ	
LATIN SMALL LETTER U	0075	u	υ	03C5	GREEK SMALL LETTER UPSILON	4	MM	4	BJ	Variant
		u	υ			2	MM	2	BJ	
		u	υ			2	MM	2	BJ	
			φ	03C6	GREEK SMALL LETTER PHI	5	MB	5	DT	Not Variant
			φ			5	MB	5	DT	
			φ			5	MB	5	DT	
LATIN SMALL LETTER X	0078	x	χ	03C7	GREEK SMALL LETTER CHI	4	MB	4	DT	Not Variant*
		x	χ			1	MB	2	DT	
		x	χ			4	MB	4	DT	
			ψ	03C8	GREEK SMALL LETTER PSI	5	MB	5	DT	Not Variant
			ψ			5	MB	5	DT	
			ψ			5	MB	5	DT	
LATIN SMALL LETTER W	0077	w	ω	03C9	GREEK SMALL LETTER OMEGA	4	MB	4	DT	Not Variant
		w	ω			4	MB	4	DT	
		w	ω			4	MB	4	DT	
LATIN SMALL LETTER V WITH HOOK + LATIN SMALL LETTER	028B 028B	ṽ	ω	03C9	GREEK SMALL LETTER OMEGA	4	MT	4	DT	Not Variant
		ṽ	ω			4	MT	4	DT	
		ṽ	ω			4	MT	4	DT	
LATIN SMALL LETTER I WITH DIAERESIS	00EF	ï	ι	03CA	GREEK SMALL LETTER IOTA WITH DIALYTIKA	3	MB	3	DT	Variant
		ï	ι			1	MB	1	DT	
		ï	ι			3	MB	3	DT	
LATIN SMALL LETTER U WITH DIAERESIS	00FC	ü	υ	03CB	GREEK SMALL LETTER UPSILON WITH DIALYTIKA	3	MB	3	DT	Variant
		ü	υ			3	MB	2	DT	
		ü	υ			3	MB	3	DT	
LATIN SMALL LETTER O WITH ACUTE	00F3	ó	ó	03CC	GREEK SMALL LETTER OMICRON WITH	1	MB	1	DT	Variant
		ó	ó			1	MB	1	DT	
		ó	ó			2	MB	1	DT	
LATIN SMALL LETTER U WITH ACUTE	00FA	ú	υ	03CD	GREEK SMALL LETTER UPSILON WITH TONOS	3	MB	3	DT	Variant
		ú	υ			3	MB	2	DT	
		ú	υ			3	MB	3	DT	
			ώ	03CE	GREEK SMALL LETTER OMEGA WITH TONOS	5	MB	5	DT	Not Variant
			ώ			5	MB	5	DT	
			ώ			5	MB	5	DT	

*Decided as 'similar' based on additional discussion with the Greek GP as well as consultations with the IP.