Proposal for a Latin Script Root Zone LGR

*LGR Version 3.0*

*Date: 2018-09-10*

*Document version:* 3.0

*Authors:* Latin Generation Panel

Table of Contents

[1. General Information 3](#_Toc524255132)

[2. Script for which the LGR is proposed 3](#_Toc524255133)

[3. Background on Script and Principal Languages Using It 5](#_Toc524255134)

[3.1 Principal languages using Latin script 5](#_Toc524255135)

[3.2 Geographic territories or countries with significant user communities 5](#_Toc524255136)

[3.3 Related scripts 6](#_Toc524255137)

[4. Overall Development Process and Methodology 6](#_Toc524255138)

[5. Repertoire 6](#_Toc524255139)

[5.1 Definitions 6](#_Toc524255140)

[5.2 Principles for developing Repertoire 7](#_Toc524255141)

[5.2.1 Inclusion Principles 7](#_Toc524255142)

[5.2.2 Exclusion Principles 8](#_Toc524255143)

[5.3 Code points included 8](#_Toc524255144)

[5.4 Code points found in processed languages outside MSR2 29](#_Toc524255145)

[5.5 Code points excluded 30](#_Toc524255146)

[5.5.1 Punctuation marks 30](#_Toc524255147)

[5.5.2 Letters combined with punctuation marks 32](#_Toc524255148)

[5.5.3 Other Excluded Letters 33](#_Toc524255149)

[6 Variants 34](#_Toc524255150)

[6.1. Principles for developing variants 34](#_Toc524255151)

[6.1.1 Visual Dimension 35](#_Toc524255152)

[6.1.2 Interchangeable or Alternate Use Dimension 35](#_Toc524255153)

[6.1.3 Other Considerations for Variant Analysis 36](#_Toc524255154)

[6.2 Principles for developing in-script variants 36](#_Toc524255155)

[6.3 In-script Latin variants 36](#_Toc524255156)

[6.4 Principles for developing cross-script variants 36](#_Toc524255157)

[6.5 Cross-script variants 36](#_Toc524255158)

[6.5.1 Armenian variants 36](#_Toc524255159)

[6.5.2 Cyrillic variants 37](#_Toc524255160)

[6.5.3 Greek variants 39](#_Toc524255161)

[7 Whole Label Evaluation Rules (WLE) 41](#_Toc524255162)

[8 Contributors 41](#_Toc524255163)

[9 References 42](#_Toc524255164)

[9.1 References used in developing Repertoire 42](#_Toc524255165)

[9.2 Other references 48](#_Toc524255166)

[Appendix B: Repertoire table grouped by Glyph 60](#_Toc524255167)

# General Information

The purpose of this document is to give an overview of the proposed LGR in the XML format and the rationale behind the design decisions taken.

It includes a discussion of relevant features of the script, the communities or languages using it, the process and methodology used and information on the contributors.

The formal specification of the LGR can be found in the accompanying XML document:

proposal-lgr-latin-20180910.xml

The test labels of the LGR can be found in the accompanying file:

TO BE DEVELOPED

#  Script for which the LGR is proposed

The Latin script has the following specifications:

* ISO 15924 code: Latn
* ISO 15924 no.: 215
* ISO 15924 English Name: Latin

Native name of the script:

* It is written differently in different languages.

A partial list of script names in different languages is given below:

* Latin (English, French),
* Latein (German),
* Latino (Italian, Portuguese),
* Latín (Spanish)
* Latinica (Croatian, Serbian)
* Kịch bản latin (Vietnamese)
* Umbhalo we-latin (Zulu)

Maximal Starting Repertoire (MSR) version: MSR-3

As per the *Procedure to Develop and Maintain the Label Generation Rules for the DNS Root Zone in Respect of IDNA Labels* (referred to simply as [Procedure] in the following), only code points included in Maximal Starting Repertoire, Second Version (Referred to simply as [MSR-2] in the following) were considered.

When the work of Latin Generation Panel started Maximal Starting Repertoire (MSR) version was MSR-2, but MSR was upgraded to version MSR-3 on January 17, 2018. Latin script part in MSR-3 contains three more letters than the Latin script part in MSR-2. Three new code points are added in Latin script part in MSR-3 as the result of the work of Latin Generation Panel.

The set of code points in the Latin script, as specified by [MSR-3], contains 343 selected code points, i.e. 323 letters and 20 Combining Diacritical Marks. Code points are from the following Unicode ranges:

|  |  |
| --- | --- |
| **Latin Script** | **Range of Unicode code points** |
| Controls and Basic Latin | U+0061 – U+007A |
| Controls and Latin-1 Supplement | U+00DF - U+00F6U+00F8 - U+00FF |
| Latin Extended-A only lowercase | U+0101 – U+017F |
| Latin Extended-B  | U+0180 – U+024F |
| IPA Extensions | U+0250 – U+02AF |
| Combining Diacritical Marks | U+0300 – U+036F |
| Combining Diacritical Marks Supplement | U+1DC0 – U+1DFF |
| Latin Extended Additional | U+1E00 – U+1EFF |
| Latin Extended-C | U+2C60 – U+2C7F |

MSR- 3 excluded the following Latin script UNICODE ranges:

|  |  |
| --- | --- |
| **Latin Script** | **Range of Unicode code points** |
| Latin Extended-D; technical use (phonetic)/obsolete/punctuation | U+A720 – U+A7FF |
| Latin Ligatures; compatibility characters not PVALID in IDNA 2008 | U+FB00 – U+FB0F |
| Full-width Latin Letters; compatibility characters not PVALID in IDNA 2008 | U+FF00 – U+FF5E |

When there is a single code point which gives the combined letter and diacritical mark, that will be used in preference to use the combining diacritic mark code point. Furthermore, only lowercase letters are considered in creating the repertoire, as uppercase ones may not be used in IDNs following [IDNA 2008].

# Background on Script and Principal Languages Using It

The Latin script[[1]](#footnote-1) is a major writing system of the world today, and the most widely used in terms of number of languages and number of speakers, with circa 70% of the world’s readers and writers making use of this script[[2]](#footnote-2) [Wikipedia-Latin script].

## 3.1 Principal languages using Latin script

The list of languages taken into consideration contains relevant data for 455 languages using Latin script. The table with languages using Latin script was derived using data from

<http://www.omniglot.com/writing/langalph.htm> and

<https://www.ethnologue.com/browse/names> and was attached to Proposal for Generation Panel for Latin Script Label Generation Ruleset for the Root Zone.

## 3.2 Geographic territories or countries with significant user communities

Per [Wikipedia](https://en.wikipedia.org/wiki/Latin_script) the distribution of the Latin script on the world map is:

****

Dark green marks countries where the Latin script is the sole main script.

Light green marks countries where Latin co-exists with other scripts.

Grey marks areas, in which supposedly Latin-script is not used or used only unofficially for second language.

## 3.3 Related scripts

Latin GP has agreed that following scripts are related to Latin script:

* Cyrillic
* Greek
* Armenian

# Overall Development Process and Methodology

The work has been done according to work plan given in “Proposal for the Generation Panel (GP) for the Latin Script Label Generation Ruleset (LGR) for the Root Zone”.

Panel formed two working groups:

* Repertoire WG
* Variant WG

which worked in parallel.

First task for each group was to define the Principles for developing Repertoire and the Principles for developing Variants. Principles were sent to Integration panel for comments and suggestions and were, also, offered to public unofficial comment. Comments from Integration panel were encompassed in final version of Principles.

During Repertoire definition phase Panel reviewed and processed 181 languages with EGIDS level 1 through 4, and 29 languages with EGIDS Level 5, which have more than 1, 000, 000 speakers.

The Latin Generation Panel used MSR-2 as the starting point and after processing 210 languages Latin GP found:

* 202 MSR-2 Unicode code points verified
* 22 code point sequences detected
* 6 new code points detected which were not included in MSR-2. Latin GP recommended these code points to be added to MSR-3.
* 3 code points of these 6 were accepted by IP and added to MSR-3

Second phase of Latin GP work is mainly devoted to definition in-script and cross-script Variants.

# Repertoire

Based on the discussions within the GP, the principles for inclusion and exclusion of code points in the Repertoire are as follows.

## 5.1 Definitions

**Language:** The present document and its principles deal with any language making use of Latin script[[3]](#footnote-3) today. Languages are restricted tonatural human languages in active use. Both the socio-political situation (such as the political or legal status of a language in a country or community) and the socio-linguistic roles of languages in society (such as the absolute or relative frequency of use) are explicitly not considered for the current purposes. Super- or sub-units of languages, such as dialect, regiolect (a dialect spoken in a particular geographical region), or language clusters, are all considered equivalent to language. However, notions such as official language, national language, standard language and vernacular, are not considered at all in determining whether something is a language.

**Letter Code Point** is a Unicode code point with General Category property value of Lx (Lu, Ll, Lt, Lm, Lo), as defined in the Unicode Character Database. (See Appendix A)

**Mark Code Point** is a Unicode code point with General Category property value of Mx (Mn, Mc, Me), as defined in the Unicode Character Database. (See Appendix A)

**Code Point Sequence** is a sequence of two or more Code Points (e.g. Letter Code Point followed by one or more Mark Code Point(s)).

**Established contemporary use** of a letter means it is in active use by a community today. Such use may be demonstrated by, for example, educational resources, published material, media, or other materials and sources. This does not depend on their material or non-material form, such as handwritten or typed manuscripts or digitally produced text. There may be multiple sources for acquiring such evidence, including (but not limited to) the following:

* Members of Language communities,
* Members of the Latin GP,
* Other experts
* Language tables submitted by ccTLD in the context of IDNA 2008 in the IANA repository, and
* Published standards (e.g. by a language authority or any other national or international body).

## 5.2 Principles for developing Repertoire

### 5.2.1 Inclusion Principles

If a Code Point is included and delegated as part of the label, the Code Point cannot be retracted in future revisions of the LGR. All applicable criteria must be met to include a Code Point.

1. Only languages which have a rating of levels of 0-4 under the [Expanded Graded Intergenerational Disruption Scale (EGIDS)](https://www.ethnologue.com/enterprise-faq/what-egids-how-it-used) are considered as supporting the inclusion of a Code Point. Languages with EGIDS 5 may be included in special cases where there is additional evidence that it is in widespread use, notwithstanding its formal EGIDS rating.
2. Code Points may only be included if they have established contemporary use in one or more of the languages considered.
3. If the Code Point in question is a Mark Code Point, then it can only be included in its context. That is, a Mark Code Point is included as part of a sequence consisting of a Lower Letter (Ll) or Other Letter (Lo) and the subsequent mark or marks.
4. Any combination of Code Points is defined by its sequence. To be included, a sequence must be supported by some included language in the same way as a separate Code Point of type Ll or Lo.
5. If a character can be represented by multiple Code Point Sequences, each Code Point Sequence must be separately justified to be included.
6. A Code Point Sequence can only be included if there is no pre-composed alternative available unless there is specific evidence that a language eligible for inclusion under Criterion 1 makes alternate use of such a sequence.
7. If the Code Point in question is a Modifier letter (Lm), then it can only be included together with its context. That is a sequence of Lm plus Ll or Lo (or the other way around), unless there is strong evidence that the Lm can be used in any context, or that such a sequence or order cannot be defined.

### 5.2.2 Exclusion Principles

A Code Point is excluded if at least one of these exclusion principles is met. If a Code Point can neither be included nor excluded on the basis of these principles, the Code Point is automatically excluded from the proposed LGR for Latin Script, per RFC 6912.

1. The Code Point is DISALLOWED or UNASSIGNED by IDNA 2008 protocol.
2. The Code Point presents a security or stability issue which cannot be resolved at any other stage of the analysis (e.g., stage of determining Code Points, variants, Contextual Rules or Whole Label Evaluation Rules).
3. The Code Point is either deprecated or not recommended for use in Unicode Standard -- unless it meets all of the applicable inclusion criteria, with no alternative Code Point or Code Point sequence.
4. The Code Point is used exclusively in a subset of textual genres, such as technical or religious texts, and is not otherwise used as described in Section 2 above.
5. The Code Point is predominantly used in one of the following functions, apart from any other uses in orthography**:**
	1. Formatting character or mark
	2. Numerical digit
	3. Punctuation mark
	4. Honorific mark or symbol
	5. Mathematical symbol

## 5.3 Code points included

The table below lists the code points recommended for inclusion in the root zone LGR for the Latin script. The table also lists examples of languages using the code point and their EGIDS rating. All references for specific code points found during language processing are included.

This table is sorted by Unicode column.

The table with the same data, sorted by glyph, can be found in Appendix B.

Description of References supporting inclusion of code point is in section 9.1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| # | Unicode | Glyph | Unicode name | Languages using the code point (EGIDS) | Reference supporting inclusion (URL etc.) |
|  | **0061** | **a** | LATIN SMALL LETTER A | Basic Latin | [0] |
|  | **0061 + 0331** | **a̱** | LATIN SMALL LETTER A + COMBINING MACRON BELOW | Nuer (4) | [146], [129] |
|  | **0062** | **b** | LATIN SMALL LETTER B | Basic Latin | [0] |
|  | 0062 006C | bl | LATIN SMALL LETTER B + LATIN SMALL LETTER L | Added for the variant purpose with 044B |  |
|  | **0063** | **c** | LATIN SMALL LETTER C | Basic Latin | [0] |
|  | **0064** | **d** | LATIN SMALL LETTER D | Basic Latin | [0] |
|  | **0065** | **e** | LATIN SMALL LETTER E | Basic Latin | [0] |
|  | **0065 + 0331** | **e̱** | LATIN SMALL LETTER E + COMBINING MACRON BELOW | Nuer (4) | [146] |
|  | **0066** | **f** | LATIN SMALL LETTER F | Basic Latin | [0] |
|  | **0067** | **g** | LATIN SMALL LETTER G | Basic Latin | [0] |
|  | **0067 + 0303** | **g̃** | LATIN SMALL LETTER G + COMBINING TILDE | Guarani (1) | [142], [143] |
|  | **0068** | **h** | LATIN SMALL LETTER H | Basic Latin | [0] |
|  | **0069** | **i** | LATIN SMALL LETTER I | Basic Latin | [0] |
|  | **0069 + 0331** | **i̲** | LATIN SMALL LETTER I + COMBINING MACRON BELOW | Nuer (4) | [146] |
|  | **006A** | **j** | LATIN SMALL LETTER J | Basic Latin | [0] |
|  | **006B** | **k** | LATIN SMALL LETTER K | Basic Latin | [0] |
|  | **006C** | **l** | LATIN SMALL LETTER L | Basic Latin | [0] |
|  | **006D** | **m** | LATIN SMALL LETTER M | Basic Latin | [0] |
|  | **006D + 0327** | **m̦** | LATIN SMALL LETTER M + COMBINING CEDILLA | Marshallese (1) | [213], [136], [214] |
|  | **006E** | **n** | LATIN SMALL LETTER N | Basic Latin | [0] |
|  | **006E + 0304** | **n̄** | LATIN SMALL LETTER N + COMBINING MACRON | Raga (Hano) (3)Marshallese (1) | [200], [213], [136] |
|  | **006E + 0308** | **n̈** | LATIN SMALL LETTER N + COMBINING DIAERESIS |  Malagasy(1) | [230] |
|  | **006F** | **o** | LATIN SMALL LETTER O | Basic Latin | [0] |
|  | **006F + 0327** | **o̧** | LATIN SMALL LETTER O + COMBINING CEDILLA | Marshallese (1) | [136] |
|  | **006F + 0331** | **o̱** | LATIN SMALL LETTER O + COMBINING MACRON BELOW | Nuer (4) | [146], [129] |
|  | **0070** | **p** | LATIN SMALL LETTER P  | Basic Latin | [0] |
|  | **0071** | **q** | LATIN SMALL LETTER Q | Basic Latin | [0] |
|  | **0072** | **r** | LATIN SMALL LETTER R | Basic Latin | [0] |
|  | **0072 + 0303** | **r̃** | LATIN SMALL LETTER R WITH TILDE | Hausa (2) | [147] |
|  | **0073** | **s** | LATIN SMALL LETTER S | Basic Latin | [0] |
|  | **0074** | **t** | LATIN SMALL LETTER T | Basic Latin | [0] |
|  | **0075** | **u** | LATIN SMALL LETTER U | Basic Latin | [0] |
|  | **0076** | **v** | LATIN SMALL LETTER V | Basic Latin | [0] |
|  | **0077** | **w** | LATIN SMALL LETTER W | Basic Latin | [0] |
|  | **0078** | **x** | LATIN SMALL LETTER X | Basic Latin | [0] |
|  | **0079** | **y** | LATIN SMALL LETTER Y | Basic Latin | [0] |
|  | **007A** | **z** | LATIN SMALL LETTER Z | Basic Latin | [0] |
|  | **00DF** | **ß** | LATIN SMALL LETTER SHARP S | German (1) | [119] |
|  | **00E0** | **à** | LATIN SMALL LETTER A WITH GRAVE | Italian (1)Galician (2)Wolof (4) | [130], [131], [106], [132] |
|  | **00E1** | **á** | LATIN SMALL LETTER A WITH ACUTE | Spanish (1)Czech (1)Icelandic (1)Faroese (2)Kirundi (1)Chuukese (2)Galician (2)Lule Sámi (2)Northern Sámi (2) | [100], [101], [102], [103], [104], [105], [106], [107], [108] |
|  | **00E2** | **â** | LATIN SMALL LETTER A WITH CIRCUMFLEX | Vietnamese (1)Romanian (1)Skolt Sami (2)Kirundi (1)French (1)Galician (2)West Frisian (2)Friulian (4)Xavante (4) | [109], [110], [113], [104], [114], [106], [115], [116], [117] |
|  | **00E3** | **ã** | LATIN SMALL LETTER A WITH TILDE | Umbundu (3)Guarani (1)Nauruan (3)Khoekhoe (4) | [141], [142], [143], [144], [145] |
|  | **00E4** | **ä** | LATIN SMALL LETTER A WITH DIAERESIS | German (1)Finnish (1)Turkmen (1)Estonian (1)Swedish (1)Lule Sámi (2)Yapese (2)Dinka (4)Kaqchikel (4)Bashkir (4)Alsatian (5)Nuer (4) | [119], [120], [121], [122], [123], [107], [124], [125], [126], [127], [128], [129] |
|  | **00E5** | **å** | LATIN SMALL LETTER A WITH RING ABOVE | Danish (1)Finnish (1) Chamorro (1)Swedish (1)Lule Sámi (2) | [139], [120], [140], [123], [107] |
|  | **00E6** | **æ** | LATIN SMALL LETTER AE | Danish (1)Icelandic (1)Faroese (2) | [139], [102], [103] |
|  | **00E7** | **ç** | LATIN SMALL LETTER C WITH CEDILLA | Turkish (1)Turkmen (1)Kurdish (2)French (1)Azerbaijani(1)Basque (1)Galician (2)Friulian (4)Bashkir(4) | [157], [121], [158], [114], [159], [160], [161], [106], [116], [127] |
|  | **00E8** | **è** | LATIN SMALL LETTER E WITH GRAVE  | French (1)Italian (1) Afrikaans (1)Kirundi (1)Haitian Creole (1) French (1) | [114], [130], [175], [104], [182], [183] |
|  | **00E9** | **é** | LATIN SMALL LETTER E WITH ACUTE | French (1)Italian (1) Spanish (1)Czech (1)Icelandic (1)Kirundi (1)Chuukese (2)Galician (2)Wolof (4)XAVANTE (4)West Frisian (2) | [114], [130], [100], [101], [102], [104], [105], [106], [132], [117], [115] |
|  | **00EA** | **ê** | LATIN SMALL LETTER E WITH CIRCUMFLEX | French (1)Tswana (1)Afrikaans (1)Vietnamese (1)Kurdish (2)Kirundi (1)West Frisian (2)Friulian (4) | [114], [173], [174], [175], [109], [158], [104], [115], [116] |
|  | **00EB** | **ë** | LATIN SMALL LETTER E WITH DIAERESIS | Afrikaans (1)Kirundi (1)Albanian (1)French (1)Chuukese (2)Uyghur (2)Yapese (2)Wolof (4)Drehu (4)Kaqchikel (4)West Frisian (2)Nuer (4) | [175], [104],[176], [177], [114], [178], [179], [124], [132], [180], [126], [115], [129] |
|  | **00EC** | **ì** | LATIN SMALL LETTER I WITH GRAVE | Italian (1)Kirundi (1) | [130], [206], [208] |
|  | **00ED** | **í** | LATIN SMALL LETTER I WITH ACUTE | Spanish (1)Czech (1) Icelandic (1) Faroese (2) Kirundi (1)Galician (2)Bashkir(4) | [100], [101], [102], [103], [104], [106], [127] |
|  | **00EE** | **î** | LATIN SMALL LETTER I WITH CIRCUMFLEX | Afrikaans (1)Romanian (1)Kurdish (2) Kirundi (1) French (1)Friulian (4) | [175], [110], [158], [104], [114], [116] |
|  | **00EF** | **ï** | LATIN SMALL LETTER I WITH DIAERESIS | Afrikaans (1)French (1)Kaqchikel (4)Dinka (4)West Frisian (2) | [175], [114], [126], [125], [115] |
|  | **00F0** | **ð** | LATIN SMALL LETTER ETH | Faroese (2)Icelandic (1) | [103], [102] |
|  | **00F1** | **ñ** | LATIN SMALL LETTER N WITH TILDE | Spanish (1)Pulaar (3)Chamorro (1)Filipino (1)Guarani (1)Chavacano (4)Basque (1)Galician (2)Iloco (3)Quechua (3)Cape Verdean Creole (4)Waray-Waray (3)Wolof (4)Nauruan(3)Lozi (4)Bashkir (4)Marshallese (1)Mandinka (5)Igbo(2) | [221], [250],[222], [142], [143], [223], [160], [106], [224], [225], [226], [227], [228], [132], [144], [229], [127], [136], [197], [205] |
|  | **00F2** | **ò** | LATIN SMALL LETTER O WITH GRAVE | Italian (1)Haitian Creole (1) | [130], [182], [183] |
|  | **00F3** | **ó** | LATIN SMALL LETTER O WITH ACUTE | Spanish (1)Polish (1)Czech (1)Icelandic (1)Kirundi (1)Chuukese (2)Galician (2)Wolof (4) | [100], [152], [101], [102], [104], [105], [106], [132] |
|  | **00F4** | **ô** | LATIN SMALL LETTER O WITH CIRCUMFLEX | Tswana (1)Afrikaans (1)Vietnamese (1)Kirundi (1)French (1)Northern Sotho(1)West Frisian (2)Galician (2)Friulian (4)Xavante(4) | [173], [174], [175], [109], [104], [114], [230], [115], [106], [116], [117] |
|  | **00F5** | **õ** | LATIN SMALL LETTER O WITH TILDE | Estonian (1)Skolt Sami (2)Umbundu (3)Guarani (1)Nauruan (3)Xavante (4)Khoekhoe (4) | [122], [113], [141], [142], [143], [144], [117], [235] |
|  | **00F6** | **ö** | LATIN SMALL LETTER O WITH DIAERESIS | German (1)Finnish (1)Afrikaans (1)Turkish (1)Swedish (1)Uygur (2)Yapese (2)Drehu (4)Kaqchikel (4)Dinka (4)Bashkir (4)Chechen (2) 1992 VersionWest Frisian (2)Nuer (4) | [119], [120], [175], [157], [123], [179], [124], [180], [126], [125], [127], [231], [232], [115], [129] |
|  | **00F8** | **ø** | LATIN SMALL LETTER O WITH STROKE | Danish (1)Faroese (2) | [139], [103] |
|  | **00F9** | **ù** | LATIN SMALL LETTER U WITH GRAVE | Italian (1)Papiamento (1) | [130], [206], [245], [246] |
|  | **00FA** | **ú** | LATIN SMALL LETTER U WITH ACUTE | Spanish (1)Czech (1)Icelandic (1)Faroese (2)Kirundi (1)Chuukese (2)West Frisian (2)Galician (2) | [100], [101], [102], [103], [104], [105], [115], [106] |
|  | **00FB** | **û** | LATIN SMALL LETTER U WITH CIRCUMFLEX | Afrikaans (1) Kurdish (2)Kirundi (1)French (1)Miskito (2)West Frisian (2)Friulian (4)Zazaki (4) | [175], [158], [104], [114], [243], [115], [116], [244] |
|  | **00FC** | **ü** | LATIN SMALL LETTER U WITH DIAERESIS | German (1)Spanish (1)Afrikaans (1)Turkish (1)Swedish (1)French (1)Azeri(1)Basque (1)Galician (2)Uygur (2)Kaqchikel (4)Bashkir (4) | [119], [100], [175], [157], [123], [114], [159], [161], [106], [179], [126], [127], [231] |
|  | **00FD** | **ý** | LATIN SMALL LETTER Y WITH ACUTE | Turkmen (1)Czech (1)Icelandic (1)Faroese (2)Guarani (1) | [121], [101], [102], [103], [142], [143] |
|  | **00FE** | **þ** | LATIN SMALL LETTER THORN | Icelandic (1) | [102] |
|  | **00FF** | **ÿ** | LATIN SMALL LETTER Y WITH DIAERESIS | French(1) | [114], [253], [257] |
|  | **0101** | **ā** | LATIN SMALL LETTER A WITH MACRON | Latvian (1)Tongan (1)Hawaiian (2)Marshallese(1) | [133], [134], [135], [136] |
|  | **0103** | **ă** | LATIN SMALL LETTER A WITH BREVE | Vietnamese (1)Romanian (1) | [109], [110] |
|  | **0105** | **ą** | LATIN SMALL LETTER A WITH OGONEK | Polish (1)Lithuanian (1) | [137], [138] |
|  | **0107** | **ć** | LATIN SMALL LETTER C WITH ACUTE | Croatian (1)Serbian (1)Polish (1) | [150], [151], [152] |
|  | **0109** | **ĉ** | LATIN SMALL LETTER C WITH CIRCUMFLEX | Esperanto(3) | [255] |
|  | **010B** | **ċ** | LATIN SMALL LETTER C WITH DOT ABOVE | Maltese(1) | [163] |
|  | **010D** | **č** | LATIN SMALL LETTER C WITH CARON | Croatian (1)Serbian (1)Latvian (1)Slovak(1)Northern Sámi(2)Lithuanian (1) | [150], [151], [133], [153], [108], [154] |
|  | **010F** | **ď** | LATIN SMALL LETTER D WITH CARON | Czech (1)Slovak (1) | [101], [153] |
|  | **0111** | **đ** | LATIN SMALL LETTER D WITH STROKE | Croatian (1)Serbian (1)Vietnamese (1)Northern Sámi (2) | [150], [151], [109], [108], [168] |
|  | **0113** | **ē** | LATIN SMALL LETTER E WITH MACRON | Latvian (1)Hawaiian (2)Tongan (1)Minangkabau (5) | [133], [135], [134], [184] |
|  | **0117** | **ė** | LATIN SMALL LETTER E WITH DOT ABOVE | Lithuanian (1) | [138], [154] |
|  | **0119** | **ę** | LATIN SMALL LETTER E WITH OGONEK | Polish (1)Palauan (2)Lithuanian (1) | [152], [185], [138], [154] |
|  | **011B** | **ě** | LATIN SMALL LETTER E WITH CARON | Czech (1)Kirundi (1)Sorbian (4) | [101], [104], [172] |
|  | **011D** | **ĝ** | LATIN SMALL LETTER G WITH CIRCUMFLEX | Esperanto(3) | [255] |
|  | **011F** | **ğ** | LATIN SMALL LETTER G WITH BREVE | Turkish (1)Tatar (2) Azeri(1)Bashkir(4)Zaza (5) | [157], [201], [159], [127], [202] |
|  | **0121** | **ġ** | LATIN SMALL LETTER G WITH DOT ABOVE | Maltese(1) | [163] |
|  | **0123** | **ģ** | LATIN SMALL LETTER G WITH CEDILLA | Latvian (1)Brahui (5) | [133], [168] |
|  | **0125** | **ĥ** | LATIN SMALL LETTER H WITH CIRCUMFLEX | Esperanto(3) | [255] |
|  | **0127** | **ħ** | LATIN SMALL LETTER H WITH STROKE | Maltese(1) | [163] |
|  | **0129** | **ĩ** | LATIN SMALL LETTER I WITH TILDE | Guarani (1)Cubeo (3)Khoekhoe (4)Kikuyu ( 5) | [142], [143], [186], [145], [209] |
|  | **012B** | **ī** | LATIN SMALL LETTER I WITH MACRON | Latvian (1)Lithuanian (1) Hawaiian (2)Tongan (1) | [133], [138], [135], [134] |
|  | **012F** | **į** | LATIN SMALL LETTER I WITH OGONEK | Lithuanian (1) | [154] |
|  | **0131** | **ı** | LATIN SMALL LETTER DOTLESS I | Turkish (1)Tatar (2) Azeri(1) | [157], [203], [201], [159] |
|  | **0135** | **ĵ** | LATIN SMALL LETTER J WITH CEDILLA | Esperanto(3) | [255] |
|  | **0137** | **ķ** | LATIN SMALL LETTER K WITH CEDILLA | Latvian (1) | [133] |
|  | **013A** | **ĺ** | LATIN SMALL LETTER L WITH ACUTE | Slovak (1) | [153] |
|  | **013C** | **ļ** | LATIN SMALL LETTER L WITH CEDILLA | Latvian (1)Marshallese (1)Brahui (5) | [133], [213], [214], [168] |
|  | **013E** | **ľ** | LATIN SMALL LETTER L WITH CARON | Slovak (1) | [153] |
|  | **0142** | **ł** | LATIN SMALL LETTER L WITH STROKE | Polish (1) | [152] |
|  | **0144** | **ń** | LATIN SMALL LETTER N WITH ACUTE | Polish (1)Lule Sámi (2)Sorbian (4)Brahui (5) | [152], [107], [172], [168] |
|  | **0146** | **ņ** | LATIN SMALL LETTER N WITH CEDILLA | Latvian (1)Marshallese(1) | [133], [136] |
|  | **0148** | **ň** | LATIN SMALL LETTER N WITH CARON | Turkmen (1)Czech (1)Slovak (1) | [121], [101], [153] |
|  | **014B** | **ŋ** | LATIN SMALL LETTER ENG | Inari Sami (2)Dagaare Burkina Faso (4)Dagbani (Dagomba) (4)Northern Sami (2)Ewondo (3)Luganda (3)Wolof (4)Adzera(4)Nuer (4)Ga (4)Dinka (4)Duala(3)Ewe (3)Soga (5) Alur (5) Mandinka (5) Acholi (5)Bambara (4)Nuer (4) | [188], [148], [189], [108], [190], [191], [132], [192], [146], [193], [125], [194], [170], [195], [196], [197], [198], [199], [129] |
|  | **014D** | **ō** | LATIN SMALL LETTER O WITH MACRON | Hawaiian (2)Marshallese (1)Tongan (1) | [135], [136], [134] |
|  | **0151** | **ő** | LATIN SMALL LETTER O WITH DOUBLE ACUTE | Hungarian (1) | [233], [234] |
|  | **0153** | **œ** | LATIN SMALL LIGATURE OE | French (1) | [114], [253] |
|  | **0155** | **ŕ** | LATIN SMALL LETTER R WITH ACUTE | Slovak (1)Brahui (5) | [153], [168] |
|  | **0159** | **ř** | LATIN SMALL LETTER R WITH CARON | Czech (1)Sorbian (4) | [101], [172] |
|  | **015B** | **ś** | LATIN SMALL LETTER S WITH ACUTE | Polish (1) | [152] |
|  | **015D** | **ŝ** | LATIN SMALL LETTER S WITH CIRCUMFLEX | Esperanto(3) | [255] |
|  | **015F** | **ş** | LATIN SMALL LETTER S WITH CEDILLA | Turkish (1)Turkmen (1)Kurdish (2)Tatar (2)Azeri(1)Bashkir(4)Brahui (5)Zaza (5) | [157], [121], [158], [201], [159], [127], [168], [202] |
|  | **0161** | **š** | LATIN SMALL LETTER S WITH CARON | Tswana (1)Croatian (1)Serbian (1)Latvian (1)Northern Sotho (1)Northern Sami(2)Lithuanian (1) | [174], [150], [151], [133], [230], [108], [154] |
|  | **0165** | **ť** | LATIN SMALL LETTER T WITH CARON | Czech (1)Slovak (1) | [101], [153] |
|  | **0167** | **ŧ** | LATIN SMALL LETTER T WITH STROKE | Northern Sami(2)Brahui (5) | [108], [168] |
|  | **0169** | **ũ** | LATIN SMALL LETTER U WITH TILDE | Umbundu (3)Guarani (1)Nauruan (3)Khoekhoe (4)Kikuyu (5) | [141], [142], [143], [144], [145], [209] |
|  | **016B** | **ū** | LATIN SMALL LETTER U WITH MACRON | Latvian (1)Hawaiian (2)Lithuanian (1)Marshallese (1)Tongan (1) | [133], [135], [138], [154], [136], [134] |
|  | **016D**  | **ŭ** | LATIN SMALL LETTER U WITH BREVE | Esperanto(3) | [255]  |
|  | **016F**  | **ů**  | LATIN SMALL LETTER U WITH RING ABOVE  | Czech (1) | [101] |
|  | **0171** | **ű** | LATIN SMALL LETTER U WITH DOUBLE ACUTE | Hungarian (1) | [233], [234] |
|  | **0173** | **ų** | LATIN SMALL LETTER U WITH OGONEK | Lithuanian (1) | [154], [138] |
|  | **0175** | **ŵ** | LATIN SMALL LETTER W WITH CIRCUMFLEX | Chichewa (3) Welsh (2) | [247], [256] |
|  | **0177** | **ŷ** | LATIN SMALL LETTER Y WITH CIRCUMFLEX | Welsh (2) | [256] |
|  | **017A** | **ź** | LATIN SMALL LETTER Z WITH ACUTE | Polish (1)Brahui (5)Sorbian (4) | [152], [252], [168], [172] |
|  | **017C** | **ż** | LATIN SMALL LETTER Z WITH DOT ABOVE | Polish (1)Maltese(1) | [152], [163] |
|  | **017E** | **ž** | LATIN SMALL LETTER Z WITH CARON | Lithuanian (1)Croatian (1)Serbian (1)Turkmen (1)Latvian (1)Slovak (1)Northern Sami(2)Chechen(2) 1925 Version | [154], [150], [151], [121], [133], [153], [108], [232] |
|  | **0192** | **ƒ** | LATIN SMALL LETTER F WITH HOOK | Ewe(3) | [170] |
|  | **0199** | **ƙ** | LATIN SMALL LETTER K WITH HOOK | Hausa (2) | [147] |
|  | **01A1** | **ơ** | LATIN SMALL LETTER O WITH HORN | Vietnamese (1) | [109] |
|  | **01B0** | **ư** | LATIN SMALL LETTER U WITH HORN | Vietnamese (1) | [109] |
|  | **01B4** | **ƴ** | LATIN SMALL LETTER Y WITH HOOK | Dagaare - Burkina Faso (4) | [148], [251], [149] |
|  | **01CE** | **ǎ** | LATIN SMALL LETTER A WITH CARON | Kirundi (1) | [104] [**https://www.dropbox.com/s/ptfclojxkmbceyf/Kirundi%20and%20its%20tonal%20diacritics.docx**](https://www.dropbox.com/s/ptfclojxkmbceyf/Kirundi%20and%20its%20tonal%20diacritics.docx)**Jean Paul Nkurunziza (personal communication)** |
|  | **01D0** | **ǐ** | LATIN SMALL LETTER I WITH CARON | Kirundi (1) | [104] |
|  | **01D2** | **ǒ** | LATIN SMALL LETTER O WITH CARON | Kirundi (1) | [104] |
|  | **01D4** | **ǔ** | LATIN SMALL LETTER U WITH CARON | Kirundi (1) | [104] |
|  | **01DD** | **ǝ** | LATIN SMALL LETTER TURNED E | Kanuri (3) | [240] |
|  | **01E7** | **ǧ** | LATIN SMALL LETTER G WITH CARON | Skolt Sami (2) | [113] |
|  | **01E9** | **ǩ** | LATIN SMALL LETTER K WITH CARON | Skolt Sami (2) | [113] |
|  | **01EF** | **ǯ** | LATIN SMALL LETTER EZH WITH CARON | Skolt Sami (2) | [113] |
|  | **0219** | **ș** | LATIN SMALL LETTER S WITH COMMA BELOW | Romanian (1) | [110] |
|  | **021B** | **ț** | LATIN SMALL LETTER T WITH COMMA BELOW | Romanian (1) | [110] |
|  | **024D** | **ɍ** | LATIN SMALL LETTER R WITH STROKE | Kanuri (3) | [240] |
|  | **0253** | **ɓ** | LATIN SMALL LETTER B WITH HOOK | Hausa (2)Dagaare - Burkina Faso (4) Pulaar, (3) | [147], [148], [250] |
|  | **0254** | **ɔ** | LATIN SMALL LETTER OPEN O | Dagaare - Burkina Faso (4)Dagbani (Dagomba) (4)Lingala (2)Akan (3)Ewondo (3)Fon (3)Nuer (4)Ga (4)Duala (3)EWE (3)Nuer (4) | [148], [189], [236], [237], [190], [169], [146], [193], [194], [170], [129] |
|  | **0254 + 0308** | **ɔ̈** | LATIN SMALL LETTER OPEN O + COMBINING DIAERESIS | DINKA (4) | [125] |
|  | **0254 + 0331** | **ɔ̱** | LATIN SMALL LETTER OPEN O + COMBINING MACRON BELOW | Nuer (4) | [129], [146] |
|  | **0256** | **ɖ** | LATIN SMALL LETTER D WITH TAIL | Fon (3)Ewe (3) | [169], [170] |
|  | **0257** | **ɗ** | LATIN SMALL LETTER D WITH HOOK | Hausa (2)Pulaar (3) | [147], [166], [250] |
|  | **0259** | **ə** | LATIN SMALL LETTER SCHWA | Azeri, Azerbaijani(1)Ewondo (3)Ewe (3)Bugis (3) | [159], [190], [170], [241] |
|  | **025B** | **ɛ** | LATIN SMALL LETTER OPEN E | Dagaare - Burkina Faso (4)Lingala (2)Akan (3)Ewondo (3)Dagbani (Dagomba) (4)Fon (3)Mossi (3)Ga (4)Ewe (3)Duala (3)Bambara (4)Nuer (4) | [148], [236], [237], [190], [189], [169], [212], [238], [193], [170], [194], [199], [129] |
|  | **025B + 0308** | **ɛ̈** | LATIN SMALL LETTER OPEN E + COMBINING DIAERESIS | Nuer (4)Dinka (4) | [129], [146], [239], [125] |
|  | **025B + 0331** | **ɛ̱** | LATIN SMALL LETTER OPEN E + COMBINING MACRON BELOW | Nuer (4) | [129], [146], [239] |
|  | **025B + 0331 + 0308** | **ɛ̱̈** | LATIN SMALL LETTER OPEN E + COMBINING MACRON BELOW + COMBINING DIAERESIS  | Nuer (4) | [146], [239] |
|  | **0263** | **ɣ** | LATIN SMALL LETTER GAMMA | Dagbani (Dagomba) (4)Nuer (4)Dinka (4)Ewe (3)Nuer (4) | [189], [146], [125], [170], [129] |
|  | **0268** | **ɨ** | LATIN SMALL LETTER I WITH STROKE | Cubeo (3)Dagbani (Dagomba) (4)HIxkaryána (4)Maasai (5) | [186], [189], [210], [211] |
|  | **0268 + 0303** | **ɨ̃** | LATIN SMALL LETTER I WITH STROKE + COMBINING TILDE | Cubeo (3) | [186] |
|  | **0269** | **ɩ** | LATIN SMALL LETTER IOTA | Dagaare - Burkina Faso (4) Mossi (3) | [148], [212] |
|  | **0272** | **ɲ** | LATIN SMALL LETTER N WITH LEFT HOOK | Susu (4)Zarma (4)Bambara (4) | [218], [219], [199] |
|  | **0289** | **ʉ** | LATIN SMALL LETTER U BAR | Cubeo (3)Maasai (5) | [186], [187], [211] |
|  | **0289 + 0303** | **ʉ̃** | LATIN SMALL LETTER U BAR + COMBINING TILDE | Cubeo (3) | [186], [187] |
|  | **028B** | **ʋ** | LATIN SMALL LETTER V WITH HOOK | Dagaare - Burkina Faso (4)Mossi (3)Ewe (3) | [148], [212], [238], [170] |
|  | **0292** | **ʒ** | LATIN SMALL LETTER EZH | Skolt Sami (2)Dagbani (Dagomba) (4) | [113], [189] |
|  | **1E13** | **ḓ** | LATIN SMALL LETTER D WITH CIRCUMFLEX BELOW | Venda (1) | [164], [257] |
|  | **1E21** | **ḡ** | LATIN SMALL LETTER G + MACRON | Raga (Hano) (3) | [200] |
|  | **1E37** | **ḷ** | LATIN SMALL LETTER L WITH DOT BELOW | Marshallese (1) | [213], [214], [215], [216] |
|  | **1E3D** | **ḽ** | LATIN SMALL LETTER L WITH CIRCUMFLEX BELOW | Venda (1) | [164], [257] |
|  | **1E43** | **ṃ** | LATIN SMALL LETTER M WITH DOT BELOW | Marshallese (1) | [213], [136], [215], [216] |
|  | **1E45** | **ṅ** | LATIN SMALL LETTER N WITH DOT ABOVE | Venda (1) | [164], [257] |
|  | **1E47** | **ṇ** | LATIN SMALL LETTER N WITH DOT BELOW | Marshallese (1) | [136], [215], [216] |
|  | **1E49** | **ṉ** | LATIN SMALL LETTER N WITH LINE BELOW | Pitjantjatjara (4) | [220] |
|  | **1E4B** | **ṋ** | LATIN SMALL LETTER N WITH CIRCUMFLEX BELOW | Venda (1) | [164], [257] |
|  | **1E63** | **ṣ** | LATIN SMALL LETTER S WITH DOT BELOW | Yoruba (2) | [181] |
|  | **1E6D** | **ṭ** | LATIN SMALL LETTER T WITH DOT BELOW | Mizo (4) | [242] |
|  | **1E71** | **ṱ** | LATIN SMALL LETTER T WITH CIRCUMFLEX BELOW | Venda (1) | [164]**, [257]** |
|  | **1E8D** | **ẍ** | LATIN SMALL LETTER X WITH DIAERESIS | Mam (4) | [248], [249] |
|  | **1EA1** | **ạ** | LATIN SMALL LETTER A WITH DOT BELOW | Vietnamese (1) | [109] |
|  | **1EA3** | **ả** | LATIN SMALL LETTER A WITH HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1EA5** | **ấ** | LATIN SMALL LETTER A WITH CIRCUMFLEX AND ACUTE | Vietnamese (1) | [109] |
|  | **1EA7** | **ầ** | LATIN SMALL LETTER A WITH CIRCUMFLEX AND GRAVE | Vietnamese (1) | [109] |
|  | **1EA9** | **ẩ** | LATIN SMALL LETTER A WITH CIRCUMFLEX AND HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1EAB** | **ẫ** | LATIN SMALL LETTER A WITH CIRCUMFLEX AND TILDE | Vietnamese (1) | [109] |
|  | **1EAD** | **ậ** | LATIN SMALL LETTER A WITH CIRCUMFLEXAND DOT BELOW | Vietnamese (1) | [109] |
|  | **1EAF** | **ắ** | LATIN SMALL LETTER A WITH BREVE AND ACUTE | Vietnamese (1) | [109] |
|  | **1EB1** | **ằ** | LATIN SMALL LETTER A WITH BREVE AND GRAVE | Vietnamese (1) | [109] |
|  | **1EB3** | **ẳ** | LATIN SMALL LETTER A WITH BREVE AND HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1EB5** | **ẵ** | LATIN SMALL LETTER A WITH BREVE AND TILDE | Vietnamese (1) | [109] |
|  | **1EB7** | **ặ** | LATIN SMALL LETTER A WITH BREVE AND DOT BELOW | Vietnamese (1) | [109] |
|  | **1EB9** | **ẹ** | LATIN SMALL LETTER E WITH DOT BELOW | Yoruba(2) | [181] |
|  | **1EB9 + 0300** | **ẹ̀** | LATIN SMALL LETTER E WITH DOT BELOW + COMBINING GRAVE ACCENT | Yoruba (2) | [254] |
|  | **1EB9 + 0301** | **ẹ́** | LATIN SMALL LETTER E WITH DOT BELOW + COMBINING ACUTE ACCENT | Yoruba (2) | [254] |
|  | **1EBB** | **ẻ** | LATIN SMALL LETTER E WITH HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1EBD** | **ẽ** | LATIN SMALL LETTER E WITH TILDE | Umbundu (3)Guarani (1)Cubeo (3)Xavante (4) | [141], [142], [143], [186], [187], [117] |
|  | **1EBF** | **ế** | LATIN SMALL LETTER E WITH CIRCUMFLEX AND ACUTE | Vietnamese (1) | [109] |
|  | **1EC1** | **ề** | LATIN SMALL LETTER E WITH CIRCUMFLEX AND GRAVE | Vietnamese (1) | [109] |
|  | **1EC3** | **ể** | LATIN SMALL LETTER E WITH CIRCUMFLEX AND HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1EC5** | **ễ** | LATIN SMALL LETTER E WITH CIRCUMFLEX AND TILDE | Vietnamese (1) | [109] |
|  | **1EC7** | **ệ**  | LATIN SMALL LETTER E WITH CIRCUMFLEXAND DOT BELOW | Vietnamese (1) | [109] |
|  | **1EC9** | **ỉ** | LATIN SMALL LETTER I WITH HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1ECB** | **ị** | LATIN SMALL LETTER I WITH DOT BELOW | Igbo (2) | [205] |
|  | **1ECD** | **ọ** | LATIN SMALL LETTER O WITH DOT BELOW | Igbo (2)Yoruba (2)Marshallese (1) | [204], [205], [181], [136], [215], [216] |
|  | **1ECD + 0300** | **ọ̀** | LATIN SMALL LETTER O WITH DOT BELOW + COMBINING GRAVE ACCENT | Yoruba (2) | [254] |
|  | **1ECD + 0301** | **ọ́** | LATIN SMALL LETTER O WITH DOT BELOW + COMBINING ACUTE ACCENT | Yoruba (2) | [254] |
|  | **1ECF** | **ỏ** | LATIN SMALL LETTER O WITH HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1ED1** | **ố** | LATIN SMALL LETTER O WITH CIRCUMFLEX AND ACUTE | Vietnamese (1) | [109] |
|  | **1ED3** | **ồ** | LATIN SMALL LETTER O WITH CIRCUMFLEX AND GRAVE | Vietnamese (1) | [109] |
|  | **1ED5** | **ổ** | LATIN SMALL LETTER O WITH CIRCUMFLEX AND HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1ED7** | **ỗ** | LATIN SMALL LETTER O WITH CIRCUMFLEX AND TILDE | Vietnamese (1) | [109] |
|  | **1ED9** | **ộ** | LATIN SMALL LETTER O WITH CIRCUMFLEX AND DOT BELOW | Vietnamese (1) | [109] |
|  | **1EDB** | **ớ** | LATIN SMALL LETTER O WITH HORN AND ACUTE | Vietnamese (1) | [109] |
|  | **1EDD** | **ờ** | LATIN SMALL LETTER O WITH HORN AND GRAVE | Vietnamese (1) | [109] |
|  | **1EDF** | **ở** | LATIN SMALL LETTER O WITH HORN AND HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1EE1** | **ỡ** | LATIN SMALL LETTER O WITH HORN AND TILDE | Vietnamese (1) | [109] |
|  | **1EE3** | **ợ** | LATIN SMALL LETTER O WITH HORN AND DOT BELOW | Vietnamese (1) | [109] |
|  | **1EE5** | **ụ** | LATIN SMALL LETTER U WITH DOT BELOW | Igbo (2) | [204], [205] |
|  | **1EE7** | **ủ** | LATIN SMALL LETTER U WITH HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1EE9** | **ứ** | LATIN SMALL LETTER U WITH HORN AND ACUTE | Vietnamese (1) | [109] |
|  | **1EEB** | **ừ** | LATIN SMALL LETTER U WITH HORN AND GRAVE | Vietnamese (1) | [109] |
|  | **1EED** | **ử** | LATIN SMALL LETTER U WITH HORN AND HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1EEF** | **ữ** | LATIN SMALL LETTER U WITH HORN AND TILDE | Vietnamese (1) | [109] |
|  | **1EF1** | **ự** | LATIN SMALL LETTER U WITH HORN AND DOT BELOW | Vietnamese (1) | [109] |
|  | **1EF3** | **ỳ** | LATIN SMALL LETTER Y WITH GRAVE | Vietnamese (1) | [109] |
|  | **1EF5** | **ỵ** | LATIN SMALL LETTER Y WITH DOT BELOW | Vietnamese (1) | [109] |
|  | **1EF7** | **ỷ** | LATIN SMALL LETTER Y WITH HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1EF9** | **ỹ** | LATIN SMALL LETTER Y WITH TILDE | Vietnamese (1) Guarani (1) | [109] [142] |

## 5.4 Code points found in processed languages outside MSR2

Latin GP has found support for six Code Points not present in MSR2. The Code Points are listed in the table below with supporting language, link to reference material and MSR3 status.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Unicode** | **Glyph** | **Unicode name** | **Languages**  | **Reference supporting inclusion** | **MSR3 status** |
| **0268** | **ɨ** | LATIN SMALL LETTER I WITH STROKE | Cubeo (3)Dagbani (4)HIxkaryána (4) | <http://www.omniglot.com/writing/cubeo.htm><http://www.omniglot.com/charts/dagbani.pdf><http://www.omniglot.com/writing/hixkaryana.htm> | INCLUDED |
| **0272** | **ɲ** | LATIN SMALL LETTER N WITH LEFT HOOK | Susu (4)Zarma (4) | <https://www.omniglot.com/writing/susu.htm><https://www.omniglot.com/writing/zarma.htm> | INCLUDED |
| **01C0** | **ǀ** | LATIN LETTER DENTAL CLICK  | Khoekhoe(4) | <https://www.britannica.com/topic/Khoisan-languages><https://en.wikipedia.org/wiki/Khoe_languages><https://www.newera.com.na/tag/khoekhoegowab/><http://www.omniglot.com/writing/khoekhoe.htm> | EXCLUDED |
| **01C1** | **ǁ** | LATIN LETTER LATERAL CLICK | Khoekhoe(4) | <https://www.britannica.com/topic/Khoisan-languages><https://en.wikipedia.org/wiki/Khoe_languages><https://www.newera.com.na/tag/khoekhoegowab/><http://www.omniglot.com/writing/khoekhoe.htm> | EXCLUDED |
| **01C2** | **ǂ** | LATIN LETTER ALVEOLAR CLICK | Khoekhoe(4) | <https://www.britannica.com/topic/Khoisan-languages><https://en.wikipedia.org/wiki/Khoe_languages><https://www.newera.com.na/tag/khoekhoegowab/><http://www.omniglot.com/writing/khoekhoe.htm> | EXCLUDED |
| **1E3D** | **ḽ** | LATIN SMALL LETTER L WITH CIRCUMFLEX BELOW | Venda (1) | http://www.omniglot.com/writing/venda.htm | INCLUDED |

## 5.5 Code points excluded

The Internet Architecture Board (IAB) has mandated that punctuation marks not be used in domain names. This includes punctuation marks themselves, codepoints that look like punctuation marks, and letters which, although they are single letters in a particular language’s alphabet, *look like* Latin letters followed by punctuation marks. Accordingly, the following letters from various languages using the Latin script have been excluded from the repertoire.

### Punctuation marks

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Unicode** | **Glyph** | **Unicode Name** | **Language** | **Reference** |
| **02BB** | **ʻ** | MODIFIER LETTER TURNED COMMA | Hawaiian (2) | https://www.omniglot.com/writing/hawaiian.htm |
| **02BC** | **’** | MODIFIER LETTER APOSTROPHE | Chamorro - (1)Dagaare - Burkina Faso (4)Dagbani (Dagomba) (4)Dholuo (5)Garo (2)Hausa (2)Mossi (3)Tartar (2)Tausūg (3)Tongan (1)Uzbek (1) | https://www.omniglot.com/writing/chamorro.htmhttp://www.omniglot.com/writing/dagaare.htm<http://www.omniglot.com/charts/dagbani.pdf><http://www.omniglot.com/writing/dholuo.php>https://www.omniglot.com/writing/garo.htm<http://www.omniglot.com/writing/hausa.htm>https://www.omniglot.com/writing/mossi.htm<http://www.omniglot.com/writing/tatar.htm>https://www.omniglot.com/writing/tausug.htm<http://www.omniglot.com/writing/tongan.htm><http://www.omniglot.com/writing/uzbek.htm> |
| **A78C** | **ꞌ** | LATIN SMALL LETTER SALTILLO | Central Sinama (4)Guarani (1)Kaqchikel (4)Oromo (Afaan) (5)Pangasinan (3) | [https://www.omniglot.com/writing/centralsinama.htm http://sinama.org/bahasa-sinama/sama-alphabet/](http://www.omniglot.com/writing/guarani.htm)[http://www.omniglot.com/writing/guarani.htm https://en.wikipedia.org/wiki/Guarani\_alphabet](http://www.omniglot.com/writing/guarani.htm) [https://www.omniglot.com/writing/kaqchikel.htm](https://www.omniglot.com/writing/centralsinama.htm) [https://www.omniglot.com/writing/oromo.htm](http://www.omniglot.com/writing/uzbek.htm) [https://www.omniglot.com/writing/pangasinan.htm](http://www.omniglot.com/charts/dagbani.pdf)  |
| **01C3** | **!** | LATIN LETTER RETROFLEX CLICK | Khoekhoe (4) | <https://www.britannica.com/topic/Khoisan-languages><https://en.wikipedia.org/wiki/Khoe_languages><https://www.newera.com.na/tag/khoekhoegowab/><http://www.omniglot.com/writing/khoekhoe.htm> |

### Letters combined with punctuation marks

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Unicode** | **Glyph** | **Unicode Name** | **Language** | **Reference** |
| **0063 + 0068 + A78C** | **chꞌ** |  LATIN SMALL LETTER C +LATIN SMALL LETTER H + LATIN SMALL LETTER SALTILLO | Quechua (3) | <https://www.omniglot.com/writing/quechua.htm> |
| **0067 + 02BC** | **g’** | LATIN SMALL LETTER G + MODIFIER LETTER APOSTROPHE | Uzbek (1) | <https://en.wikipedia.org/wiki/Uzbek_alphabet#Distinct_characters> |
| **02BC + 0068** | **ʼh** | LATIN MODIFIER LETTER APOSTROPHE WITH LATIN SMALL LETTER H | Dagaare - Burkina Faso (4) | <http://www.omniglot.com/writing/dagaare.htm> |
| **006B + A78C** | **kꞌ** | LATIN SMALL LETTER K + LATIN SMALL LETTER SALTILLO | Quechua (3) | <https://www.omniglot.com/writing/quechua.htm> |
| **02BC + 006C** | **ʼl** | LATIN MODIFIER LETTER APOSTROPHE WITH LATIN SMALL LETTER L | Dagaare - Burkina Faso (4) | <http://www.omniglot.com/writing/dagaare.htm> |
| **006C + 02BC** | **l’** | LATIN SMALL LETTER L + MODIFIER LETTER APOSTROPHE | Garo (2) | [http://www.webcitation.org/6sl20cbZO https://www.omniglot.com/writing/garo.htm](http://www.webcitation.org/6sl20cbZO)  |
| **006D + 02BC** | **m’** | LATIN SMALL LETTER M + MODIFIER LETTER APOSTROPHE | Garo (2) | [http://www.webcitation.org/6sl20cbZO https://www.omniglot.com/writing/garo.htm](http://www.webcitation.org/6sl20cbZO)  |
| **006E + 02BC** | **n’** | LATIN SMALL LETTER N + MODIFIER LETTER APOSTROPHE | Garo (2) | [http://www.webcitation.org/6sl20cbZO https://www.omniglot.com/writing/garo.htm](http://www.webcitation.org/6sl20cbZO)  |
| **006E + 0067 + 02BC** | **ng’** | LATIN SMALL LETTER N + LATIN SMALL LETTER G + MODIFIER LETTER APOSTROPHE | Garo (2) | [http://www.webcitation.org/6sl20cbZO https://www.omniglot.com/writing/garo.htm](http://www.webcitation.org/6sl20cbZO)  |
| **014B + 02BC** | **ŋʼ** | LATIN SMALL LETTER ENG WITH MODIFIER LETTER APOSTROPHE | Adzera(4) | <http://www.omniglot.com/writing/adzera.htm> |
| **006F + 02BC** | **o’** | LATIN SMALL LETTER O + MODIFIER LETTER APOSTROPHE | Uzbek (1) | <https://en.wikipedia.org/wiki/Uzbek_alphabet#Distinct_characters> |
| **0070 + A78C** | **pꞌ** | LATIN SMALL LETTER O + LATIN SMALL LETTER SALTILLO | Quechua (3) | <https://www.omniglot.com/writing/quechua.htm> |
| **0071 + A78C** | **qꞌ** | LATIN SMALL LETTER Q + LATIN SMALL LETTER SALTILLO | Quechua (3) | <https://www.omniglot.com/writing/quechua.htm> |
| **0074 + A78C** | **tꞌ** | LATIN SMALL LETTER T + LATIN SMALL LETTER SALTILLO | Quechua (3) | <https://www.omniglot.com/writing/quechua.htm> |
| **02BC + 0077** | **ʼw** | LATIN MODIFIER LETTER APOSTROPHE WITH LATIN SMALL LETTER W | Dagaare - Burkina Faso (4) | <http://www.omniglot.com/writing/dagaare.htm> |

### Other Excluded Letters

The Integration Panel has declined to include three letters, proposed by Latin GP for inclusion in MSR-3, because of security concerns. These letters are marked as homoglyphs of punctuation.

Complete explanation could be found in <https://www.icann.org/en/system/files/files/msr-3-overview-28mar18-en.pdf> - section 5.7.5 (pg. 24).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Unicode** | **Glyph** | **Unicode Name** | **Language** | **Reference** |
| **01C0** | **ǀ** | LATIN LETTER DENTAL CLICK | Khoekhoe(4) | [https://www.britannica.com/topic/Khoisan-languages https://en.wikipedia.org/wiki/Khoe\_languages https://www.newera.com.na/tag/khoekhoegowab/ http://www.omniglot.com/writing/khoekhoe.htm](https://www.britannica.com/topic/Khoisan-languages)  |
| **01C1** | **ǁ** | LATIN LETTER LATERAL CLICK | Khoekhoe(4) | [https://www.britannica.com/topic/Khoisan-languages https://en.wikipedia.org/wiki/Khoe\_languages https://www.newera.com.na/tag/khoekhoegowab/ http://www.omniglot.com/writing/khoekhoe.htm](https://www.britannica.com/topic/Khoisan-languages)  |
| **01C2** | **ǂ** | LATIN LETTER ALVEOLAR CLICK | Khoekhoe(4) | [https://www.britannica.com/topic/Khoisan-languages https://en.wikipedia.org/wiki/Khoe\_languages https://www.newera.com.na/tag/khoekhoegowab/ http://www.omniglot.com/writing/khoekhoe.htm](https://www.britannica.com/topic/Khoisan-languages)  |

# Variants

This section (still in progress) discusses the definition of variants for the Lain script, the discovery methodology and proposed candidates.

In accordance to the Procedure, an IDN variant for the Latin Root Zone LGR is going to be alternate code point (or sequence of code points) that could be substituted for a code point (or sequence of code points) in a candidate label to create a variant label that is considered the “same”.

## 6.1. Principles for developing variants

For the Latin Root Zone LGR the meaning of “same” will slightly vary from within-script variants to cross-script variants.

Latin GP determined that there are two dimensions for sameness for the Latin script:

* visual
* interchangeable use.

### 6.1.1 Visual Dimension

Per IP **“the kinds of variants to be defined in the Root Zone LGR are limited to homoglyphs, which are characters essentially identical appearance by design, instead of merely similar appearance”.**

Latin GP used a four-point score system to determine whether a given pair of candidate characters is in the “essentially identical appearance by design” group or in the “merely similar appearance”, as follows:

|  |  |
| --- | --- |
| Score | Category |
| 1 | **Homoglyphs** A pair of code points in this category have essentially identical appearance by design. |
| 2 | **Nearly Identical**A pair of code points is considered Nearly Identical when the visual differences can be attributed to font design. |
| 3 | **Distinguishable**A pair of code points is considered Distinguishable when any of the code point’s glyphs have recognizable features from the other code point. |
| 4 | **Different**When the two glyphs in the pair are sufficiently different. |

### 6.1.2 Interchangeable or Alternate Use Dimension

Certain languages would use two (or more) letters interchangeably as if they were identical or the same, without altering the meaning of a word. Sometimes these conventions are due to historical reasons or due to mechanical issues (i.e. lack of input methods). In analyzing these types of cases, the Latin GP will consult second-level IDN Tables from relevant sources to preserve the Least Astonishment Principle and other relevant resources.

### 6.1.3 Other Considerations for Variant Analysis

<Placeholder for security considerations (e.g. diacritics below)>

##

## 6.2 Principles for developing in-script variants

Following cases will be proposed as in-script variant

* Homoglyphs (i.e. visual score = 1): when any given pair of code points or code point sequences are visually identical as represented in a common use font (e.g., Arial, Times New Roman or Courier New) by internet applications, such as internet browsers.
* Alternate Use: a pair of code points or sequence of code points that are regularly used interchangeably and are considered the same by the script users.

## 6.3 In-script Latin variants

WORK IN PROGRESS!

## 6.4 Principles for developing cross-script variants

Latin GP is analyzing variant relationships across related scripts, such as Cyrillic, Armenian and Greek.

A Latin code point will be deemed a variant with a cross-script code point when the two code points or sequence of code point are

* homoglyphs (i.e. visual score = 1) or
* nearly identical (i.e. visual score = 2) when the difference can be attributed to different font styles.

## 6.5 Cross-script variants

### Armenian variants

The Latin script has the following cross-script variants with Armenian script:

WORK IN PROGRESS!

### Cyrillic variants

The Latin GP proposes the following cross-script variants with Cyrillic script:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Source Unicode Name** | **Source Code Point** | **Source Glyph** | **Variant Relationship** | **Target Glyph** | **Target Code Point** | **Target Unicode Name** | **Disposition** | **Rationale** |
| LATIN SMALL LETTER B | 0062 | b | ↔ | ь | 044C | CYRILLIC SMALL LETTER SOFT SIGN | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER X | 0078 | x | ↔ | ҳ | 04B3 | CYRILLIC SMALL LETTER HA WITH DESCENDER | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER Y | 0079 | y | ↔ | ү | 04AF | CYRILLIC SMALL LETTER STRAIGHT U | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER C WITH CEDILLA | 00E7 | ç | ↔ | ҫ | 04AB | CYRILLIC SMALL LETTER ES WITH DESCENDER | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER Y WITH DIAERESIS | 00FF | ÿ | ↔ | Ӱ | 04F1 | CYRILLIC SMALL LETTER U WITH DIAERESIS | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER R WITH ACUTE | 0155 | ŕ | ↔ | ѓ | 0453 | CYRILLIC SMALL LETTER GJE | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER R WITH STROKE | 024D | ɍ | ↔ | ғ | 0493 | CYRILLIC SMALL LETTER GHE WITH STROKE | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER OPEN E | 025B | ɛ | ↔ | є | 0454 | CYRILLIC SMALL LETTER UKRAINIAN IE | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER U WITH DOT BELOW | 1EE5 | ụ | ↔ | џ | 045F | CYRILLIC SMALL LETTER DZHE | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER U WITH HORN AND DOT BELOW | 1EF1 | ự | ↔ | џ | 045F | CYRILLIC SMALL LETTER DZHE | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER Y WITH TILDE | 1EF9 | ỹ | ↔ | Ӯ | 04EF | CYRILLIC SMALL LETTER U WITH MACRON | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER A | 0061 | a | ↔ | а | 0430 | CYRILLIC SMALL LETTER A | Blocked | Homoglyph |
| LATIN SMALL LETTER C | 0063 | c | ↔ | с | 0441 | CYRILLIC SMALL LETTER ES | Blocked | Homoglyph |
| LATIN SMALL LETTER E | 0065 | e | ↔ | е | 0435 | CYRILLIC SMALL LETTER IE | Blocked | Homoglyph |
| LATIN SMALL LETTER H | 0068 | h | ↔ | һ | 04BB | CYRILLIC SMALL LETTER SHHA | Blocked | Homoglyph |
| LATIN SMALL LETTER I | 0069 | i | ↔ | і | 0456 | CYRILLIC SMALL LETTER BYELORUSSIAN-UKRAINIAN I | Blocked | Homoglyph |
| LATIN SMALL LETTER J | 006A | j | ↔ | ј | 0458 | CYRILLIC SMALL LETTER JE | Blocked | Homoglyph |
| LATIN SMALL LETTER L | 006C | l | ↔ | ӏ | 04CF | CYRILLIC SMALL LETTER PALOCHKA | Blocked | Homoglyph |
| LATIN SMALL LETTER O | 006F | o | ↔ | о | 043E | CYRILLIC SMALL LETTER O | Blocked | Homoglyph |
| LATIN SMALL LETTER P | 0070 | p | ↔ | р | 0440 | CYRILLIC SMALL LETTER ER | Blocked | Homoglyph |
| LATIN SMALL LETTER R | 0072 | r | ↔ | г | 0433 | CYRILLIC SMALL LETTER GHE | Blocked | Homoglyph |
| LATIN SMALL LETTER S | 0073 | s | ↔ | ѕ | 0455 | CYRILLIC SMALL LETTER DZE | Blocked | Homoglyph |
| LATIN SMALL LETTER X | 0078 | x | ↔ | х | 0445 | CYRILLIC SMALL LETTER HA | Blocked | Homoglyph |
| LATIN SMALL LETTER Y | 0079 | y | ↔ | у | 0443 | CYRILLIC SMALL LETTER U | Blocked | Homoglyph |
| LATIN SMALL LETTER A WITH DIAERESIS | 00E4 | ä | ↔ | ӓ | 04D3 | CYRILLIC SMALL LETTER A WITH DIAERESIS | Blocked | Homoglyph |
| LATIN SMALL LETTER AE | 00E6 | æ | ↔ | ӕ | 04D5 | CYRILLIC SMALL LIGATURE A IE | Blocked | Homoglyph |
| LATIN SMALL LETTER E WITH DIAERESIS | 00EB | ë | ↔ | ё | 0451 | CYRILLIC SMALL LETTER IO | Blocked | Homoglyph |
| LATIN SMALL LETTER I WITH DIAERESIS | 00EF | ï | ↔ | ї | 0457 | CYRILLIC SMALL LETTER YI | Blocked | Homoglyph |
| LATIN SMALL LETTER O WITH DIAERESIS | 00F6 | ö | ↔ | ӧ | 04E7 | CYRILLIC SMALL LETTER O WITH DIAERESIS | Blocked | Homoglyph |
| LATIN SMALL LETTER A WITH BREVE | 0103 | ă | ↔ | ӑ | 04D1 | CYRILLIC SMALL LETTER A WITH BREVE | Blocked | Homoglyph |
| LATIN SMALL LETTER H WITH STROKE | 0127 | ħ | ↔ | ћ | 045B | CYRILLIC SMALL LETTER TSHE | Blocked | Homoglyph |
| LATIN SMALL LETTER TURNED E | 01DD | ǝ | ↔ | ә | 04D9 | CYRILLIC SMALL LETTER SCHWA | Blocked | Homoglyph |
| LATIN SMALL LETTER SCHWA | 0259 | ə | ↔ | ә | 04D9 | CYRILLIC SMALL LETTER SCHWA | Blocked | Homoglyph |
| LATIN SMALL LETTER EZH | 0292 | ʒ | ↔ | ӡ | 04E1 | CYRILLIC SMALL LETTER ABKHASIAN DZE | Blocked | Homoglyph |
| LATIN SMALL LETTER B + LATIN SMALL LETTER L | 0062 006C | bl | ↔ | ы | 044B | CYRILLIC SMALL LETTER YERU | Blocked | String is visually similar to target glyph |

### Greek variants

The Latin GP proposes the following cross-script variants with Greek script:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Source Unicode Name | Source Code Point | Source Glyph | Variant Relationship | Target Glyph | Target Code Point | Target Unicode Name | Disposition | Rationale |
| LATIN SMALL LETTER A | 0061 | a | ↔ | α | 03B1 | GREEK SMALL LETTER ALPHA | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER P | 0070 | p | ↔ | ρ | 03C1 | GREEK SMALL LETTER RHO | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER U | 0075 | u | ↔ | υ | 03C5 | GREEK SMALL LETTER UPSILON | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER X | 0078 | x | ↔ | χ | 03C7 | GREEK SMALL LETTER CHI | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER Y | 0079 | y | ↔ | γ | 03B3 | GREEK SMALL LETTER GAMMA | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER SHARP S | 00DF | ß | ↔ | β | 03B2 | GREEK SMALL LETTER BETA | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER A WITH ACUTE | 00E1 | á | ↔ | ά | 03AC | GREEK SMALL LETTER ALPHA WITH TONOS | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER C WITH CEDILLA | 00E7 | ç | ↔ | ς | 03C2 | GREEK SMALL LETTER FINAL SIGMA | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER I WITH DIAERESIS | 00EF | ï | ↔ | ΐ | 0390 | GREEK SMALL LETTER IOTA WITH DIALYTIKA AND TONOS | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER U WITH ACUTE | 00FA | ú | ↔ | ύ | 03CD | GREEK SMALL LETTER UPSILON WITH TONOS | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER U WITH DIAERESIS | 00FC | ü | ↔ | ΰ | 03B0 | GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND TONOS | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER U WITH DIAERESIS | 00FC | ü | ↔ | ϋ | 03CB | GREEK SMALL LETTER UPSILON WITH DIALYTIKA | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER L WITH ACUTE | 013A | ĺ | ↔ | ί | 03AF | GREEK SMALL LETTER IOTA WITH TONOS | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER O WITH HORN | 01A1 | ơ | ↔ | σ | 03C3 | GREEK SMALL LETTER SIGMA | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER V WITH HOOK | 028B | ʋ | ↔ | υ | 03C5 | GREEK SMALL LETTER UPSILON | Blocked | Glyphs nearly identical due to font design |
| LATIN SMALL LETTER O | 006F | o | ↔ | ο | 03BF | GREEK SMALL LETTER OMICRON | Blocked | Homoglyph |
| LATIN SMALL LETTER V | 0076 | v | ↔ | ν | 03BD | GREEK SMALL LETTER NU | Blocked | Homoglyph |
| LATIN SMALL LETTER I WITH ACUTE | 00ED | í | ↔ | ί | 03AF | GREEK SMALL LETTER IOTA WITH TONOS | Blocked | Homoglyph |
| LATIN SMALL LETTER I WITH DIAERESIS | 00EF | ï | ↔ | ϊ | 03CA | GREEK SMALL LETTER IOTA WITH DIALYTIKA | Blocked | Homoglyph |
| LATIN SMALL LETTER O WITH ACUTE | 00F3 | ó | ↔ | ό | 03CC | GREEK SMALL LETTER OMICRON WITH TONOS | Blocked | Homoglyph |
| LATIN SMALL LETTER OPEN E | 025B | ɛ | ↔ | ε | 03B5 | GREEK SMALL LETTER EPSILON | Blocked | Homoglyph |
| LATIN SMALL LETTER IOTA | 0269 | ɩ | ↔ | ι | 03B9 | GREEK SMALL LETTER IOTA | Blocked | Homoglyph |

# Whole Label Evaluation Rules (WLE)

WLE rules for the Latin script.

WORK IN PROGRESS!

# Contributors

# References

## 9.1 References used in developing Repertoire

[0] The Unicode Consortium, Unicode® 11.0.0, <http://www.unicode.org/versions/Unicode11.0.0/>, 5 September 2018

[100], ICANN, Second Level Reference Label Generation Rules for Spanish, <https://www.icann.org/sites/default/files/packages/lgr/lgr-second-level-spanish-30aug16-en.html>, 31 August 2018

[101], Omniglot, Czech (čeština), http://www.omniglot.com/writing/czech.htm, 31 August 2018

[102], Omniglot, Icelandic (Íslenska), http://www.omniglot.com/writing/icelandic.htm, 31 August 2018

[103], Omniglot, Faroese (føroyskt mál), http://www.omniglot.com/writing/faroese.htm, 31 August 2018

[104], Wikipedia, Burundi Bwacu, https://en.wikipedia.org/wiki/Burundi\_Bwacu#Kirundi\_.28with\_tonal\_diacritics\_.E2.80.94\_utw.C3.A2tuzo.29, 31 August 2018

[105], Omniglot, Chuukese (Chuuk), http://www.omniglot.com/writing/chuukese.htm, 31 August 2018

[106], SCRIPTSOURCE, Galician written with Latin script, http://www.webcitation.org/6siTI8ieQ, 31 August 2018

[107], Omniglot, Lule Sámi (julevsámegiella), http://www.omniglot.com/writing/lulesami.htm, 31 August 2018

[108], Wikipedia, Northern Sami, https://en.wikipedia.org/wiki/Northern\_Sami, 4 September 2018

[109], Omniglot, Vietnamese (tiếng việt / 㗂越), http://www.omniglot.com/writing/vietnamese.htm, 4 September 2018

[110], Omniglot, Romanian (limba română), http://www.omniglot.com/writing/romanian.htm, 4 September 2018

[113], Omniglot, Skolt Sámi (Sääˊmǩiõll / Nuõrttsää’m), http://www.omniglot.com/writing/skoltsami.htm, 4 September 2018

[114], Omniglot, French (français), http://omniglot.com/writing/french.htm, 4 September 2018

[115], Omniglot, West Frisian (Frysk), http://www.omniglot.com/writing/westfrisian.htm, 4 September 2018

[116], Omniglot, Friulian (furlan/marilenghe), http://www.omniglot.com/writing/friulian.htm, 4 September 2018

[117], Anteriormente Summer Institute of Linguistics, Pequeno dicionário: Xavante-Português, Português-Xavante, http://www.silbrasil.org.br/resources/archives/17019, 4 September 2018

 [119], Omniglot, German (Deutsch), http://www.omniglot.com/writing/german.htm, 4 September 2018

[120], Omniglot, Finnish (suomi), http://www.omniglot.com/writing/finnish.htm, 4 September 2018

[121], Omniglot, Turkmen (Türkmen dili / Түркмен дили), http://www.omniglot.com/writing/turkmen.htm, 4 September 2018

[122], Omniglot, Estonian (eesti keel), http://www.omniglot.com/writing/estonian.htm, 4 September 2018

[123], Omniglot, Swedish (svenska), http://www.omniglot.com/writing/swedish.htm, 4 September 2018

[124], Omniglot, Yapese (Waab), http://www.omniglot.com/writing/yapese.htm, 4 September 2018

[125], Omniglot, Dinka (Thuɔŋjäŋ), https://www.omniglot.com/writing/dinka.php, 4 September 2018

[126], Omniglot, Kaqchikel (Kaqchikel Ch'ab'äl), http://www.omniglot.com/writing/kaqchikel.htm, 4 September 2018

[127], Omniglot, Bashkir/Bashkort (Башҡорт теле / Başqort tele), http://www.omniglot.com/writing/bashkir.htm, 4 September 2018

[128], Omniglot, Alsatian (Ëlsässisch), https://www.omniglot.com/writing/alsatian.htm, 4 September 2018

[129], Wikipedia, Nuer language, https://en.wikipedia.org/wiki/Nuer\_language, 4 September 2018

[130], Omniglot, Italian (italiano), http://www.omniglot.com/writing/italian.htm, 4 September 2018

[131], Wikipedia, Italian orthography, https://en.wikipedia.org/wiki/Italian\_orthography, 4 September 2018

[132], Omniglot, Wolof (Wollof), http://www.omniglot.com/writing/wolof.htm, 4 September 2018

[133], Omniglot, Latvian (latviešu valoda), http://www.omniglot.com/writing/latvian.htm, 4 September 2018

[134], Omniglot, Tongan (Faka-Tonga), http://www.omniglot.com/writing/tongan.htm, 4 September 2018

[135], Omniglot, Hawaiian (ʻŌlelo Hawaiʻi), http://www.omniglot.com/writing/hawaiian.htm, 4 September 2018

[136], Omniglot, Marshallese (kajin m̧ajeļ), http://www.omniglot.com/writing/marshallese.php, 4 September 2018

[137], Omniglot, Polish (polski), http://www.omniglot.com/writing/polish.htm, 4 September 2018

[138], Omniglot, Lithuanian (lietuvių kalba), http://www.omniglot.com/writing/lithuanian.htm, 4 September 2018

[139], Omniglot, Danish (dansk), http://www.omniglot.com/writing/danish.htm, 4 September 2018

[140], Omniglot, Chamorro (chamoru), http://www.omniglot.com/writing/chamorro.htm, 4 September 2018

[141], Omniglot, Umbundu (Úmbúndú), http://www.omniglot.com/writing/umbundu.htm, 4 September 2018

[142], Omniglot, Guaraní (Avañe'ẽ), http://www.omniglot.com/writing/guarani.htm, 4 September 2018

[143], Wikipedia, Guarani alphabet, https://en.wikipedia.org/wiki/Guarani\_alphabet, 4 September 2018

[144], Omniglot, Nauruan (Ekaiairũ Naoero), http://www.omniglot.com/writing/nauruan.htm, 4 September 2018

[145], Omniglot, Khoekhoe (Khoekhoegowab), https://www.omniglot.com/writing/khoekhoe.htm, 4 September 2018

[146], Omniglot, Nuer (Naath), https://www.omniglot.com/writing/nuer.htm, 4 September 2018

[147], Omniglot, Hausa (Harshen Hausa / هَرْشَن هَوْسَ), http://www.omniglot.com/writing/hausa.htm , 4 September 2018

[148], Omniglot, Dagaare, http://www.omniglot.com/writing/dagaare.htm, 4 September 2018

[149], Omniglot, Fula (Fulfulde, Pulaar, Pular'Fulaare), http://www.omniglot.com/writing/fula.htm, 4 September 2018

[150], Omniglot, Croatian (Hrvatski), http://www.omniglot.com/writing/croatian.htm, 4 September 2018

[151], Omniglot, Serbian (српски / srpski), http://www.omniglot.com/writing/serbian.htm, 4 September 2018

[152], Wikipedia, Polish language, https://en.wikipedia.org/wiki/Polish\_language, 4 September 2018

[153], Omniglot, Slovak (slovenčina), http://www.omniglot.com/writing/slovak.htm, 4 September 2018

[154], Evertype Publishing, Lithuanian lietuvių kalba Version 1.1, http://www.evertype.com/alphabets/lithuanian.pdf, 4 September 2018

[157], Omniglot, Turkish (Türkçe), http://www.omniglot.com/writing/turkish.htm, 4 September 2018

[158], Omniglot, Kurdish (Kurdî / کوردی), http://www.omniglot.com/writing/kurdish.htm, 4 September 2018

[159], Omniglot, Azerbaijani (آذربايجانجا ديلي / Азәрбајҹан дили / Azərbaycan dili), http://www.omniglot.com/writing/azeri.htm, 4 September 2018

[160], Omniglot, Basque (euskara), http://www.omniglot.com/writing/basque.htm, 4 September 2018

[161], Wikipedia, Basque language, https://en.wikipedia.org/wiki/Basque\_language#Writing\_system, 4 September 2018

[163], Omniglot, Maltese (Malti), http://www.omniglot.com/writing/maltese.htm, 4 September 2018

[164], Omniglot, Venda (Tshivenḓa / Luvenḓa), http://www.omniglot.com/writing/venda.htm, 4 September 2018

[166], Wikipedia, Hausa language, https://en.wikipedia.org/wiki/Hausa\_language , 4 September 2018

[167], Christian Chanard and Rhonda L. Hartell. 2014 , Pulaar sound inventory (AA), http://phoible.org/inventories/view/809#tsource, 4 September 2018

[168], Omniglot, Brahui (Bráhuí / براوی), https://www.omniglot.com/writing/brahui.htm, 4 September 2018

[169], Wikipedia, Fon language, https://en.wikipedia.org/wiki/Fon\_language , 4 September 2018

[170], Omniglot, Ewe (Eʋegbe), http://www.omniglot.com/writing/ewe.htm, 4 September 2018

[172], Omniglot, Sorbian (hornjoserbsce/dolnoserbski), https://www.omniglot.com/writing/sorbian.htm, 4 September 2018

[173], Peace corps, Botswana, An Introduction to Setswana Language, http://files.peacecorps.gov/multimedia/audio/languagelessons/botswana/Bw\_Setswana\_Language\_Lessons.pdf, 4 September 2018

[174], Omniglot, Tswana (Setswana), http://omniglot.com/writing/tswana.php, 4 September 2018

[175], Wikipedia, Afrikaans, https://en.wikipedia.org/wiki/Afrikaans, 4 September 2018

[176], Omniglot, Albanian (shqip / gjuha shqipe), http://www.omniglot.com/writing/albanian.htm, 4 September 2018

[177], Wikipedia, Albanian alphabet, https://en.wikipedia.org/wiki/Albanian\_alphabet, 4 September 2018

[178], Cmpiled by Jay Hinner, So you want to learn chuukese?, http://www.jesuitvolunteers.org/wp-content/uploads/2015/08/So\_you\_want\_to\_learn\_chuukese\_-\_only\_for\_Chuuk\_JVs.pdf, 4 September 2018

[179], Wikipedia, Uyghur Latin alphabet, https://en.wikipedia.org/wiki/Uyghur\_Latin\_alphabet, 4 September 2018

[180], Omniglot, Drehu (Deʼu), http://www.omniglot.com/writing/drehu.php, 4 September 2018

[181], Omniglot, Yoruba (Èdè Yorùbá), http://www.omniglot.com/writing/yoruba.htm, 4 September 2018

[182], Omniglot, Haitian Creole (Kreyòl ayisyen), http://www.omniglot.com/writing/haitiancreole.htm, 4 September 2018

[183], Wikipedia, Haitian Creole, https://en.wikipedia.org/wiki/Haitian\_Creole#Orthography, 4 September 2018

[184], Omniglot, Minangkabau (Baso Minangkabau / باسو مينڠكاباو), http://www.omniglot.com/writing/minangkabau.htm, 4 September 2018

[185], Omniglot, Palauan (a tekoi er a Belau), http://www.omniglot.com/writing/palauan.htm, 4 September 2018

[186], Omniglot, Cubeo (pãmié), http://www.omniglot.com/writing/cubeo.htm, 4 September 2018

[187], Editorial Alberto Lleras Camargo, Diccionario Ilustrado Bilingüe cubeo-español español-cubeo, https://www.sil.org/system/files/reapdata/10/58/27/10582785843693992331766506069073895620/40337\_01.pdf, 4 September 2018

[188], Omniglot, Inari Saami (Anarâškielâ), http://www.omniglot.com/writing/inarisami.htm, 4 September 2018

[189], Omniglot, Compiled by Wolfram Siegel , DAGBANI, http://www.omniglot.com/charts/dagbani.pdf, 4 September 2018

[190], Omniglot, Ewondo, http://www.omniglot.com/writing/ewondo.php, 4 September 2018

[191], Omniglot, Luganda (Oluganda), http://www.omniglot.com/writing/ganda.php, 4 September 2018

[192], Omniglot, Adzera, http://www.omniglot.com/writing/adzera.htm, 4 September 2018

[193], Omniglot, Ga (Gã), http://www.omniglot.com/writing/ga.htm, 4 September 2018

[194], Omniglot, Duala (Duálá), http://www.omniglot.com/writing/duala.php, 4 September 2018

[195], Omniglot, Soga (Lusoga), http://www.omniglot.com/writing/soga.htm, 4 September 2018

[196], Omniglot, Alur (Lur), http://www.omniglot.com/writing/alur.htm, 4 September 2018

[197], Omniglot, Mandinka (Mandi'nka kango / لغة مندنكا), http://www.omniglot.com/writing/mandinka.htm, 4 September 2018

[198], Omniglot, Acholi (Lwo), https://www.omniglot.com/writing/acholi.htm, 4 September 2018

[199], Omniglot, Bambara (Bamanankan), http://www.omniglot.com/writing/bambara.htm, 4 September 2018

[200], Omniglot, Raga (Hano), http://www.omniglot.com/writing/raga.htm, 4 September 2018

[201], Omniglot, Tatar (tatarça / татарча / تاتارچا), http://www.omniglot.com/writing/tatar.htm, 4 September 2018

[202], Omniglot, Zaza (Zazaki / زازاکی), https://www.omniglot.com/writing/zazaki.htm, 4 September 2018

[203], Wikipedia, Turkish alphabet, https://en.wikipedia.org/wiki/Turkish\_alphabet, 4 September 2018

[204], School of English, Adam Michiewicz University, Poznań, Poland, Poznań Studies in Contemporary Linguistics 43(1),2007, pp. 169-180, A Demographic Igbo Orthography, https://www.degruyter.com/downloadpdf/j/psicl.2007.43.issue-1/v10010-007-0009-0/v10010-007-0009-0.pdf, 4 September 2018

[205], Omniglot, Igbo (Asụsụ Igbo), http://www.omniglot.com/writing/igbo.htm, 4 September 2018

[206], ItalianPod101, Italian Accents and Proper Italian Pronunciation, https://www.italianpod101.com/italian-accents, 4 September 2018

[208], Reverso Dictionary, venerdì translation | Italian-English dictionary, http://dictionary.reverso.net/italian-english/venerd%C3%AC, 4 September 2018

[209], Omniglot, Kikuyu (Gĩkũyũ), http://www.omniglot.com/writing/kikuyu.htm, 4 September 2018

[210], Omniglot, Hixkaryána, http://www.omniglot.com/writing/hixkaryana.htm, 4 September 2018

[211], Omniglot, Maasai (ɔl Maa), http://www.omniglot.com/writing/maasai.htm, 4 September 2018

[212], Omniglot, Mossi (Mòoré), http://www.omniglot.com/writing/mossi.htm, 4 September 2018

[213], Omniglot, Jenesis. The Bible in Marshallese, 2009., Contributed by Wolfgang Kuhl, http://www.omniglot.com/babel/marshallese.htm, 4 September 2018

[214], Wikipedia, Cedilla, https://en.wikipedia.org/wiki/Cedilla#Marshallese, 4 September 2018

[215], Wikipedia, Marshallese language, https://en.wikipedia.org/wiki/Marshallese\_language#Display\_issues, 4 September 2018

[216], Trussel, Marshallese-English Online Dictionary, http://www.trussel2.com/MOD/, 4 September 2018

[218], Omniglot, Susu (Sosoxi), https://www.omniglot.com/writing/susu.htm, 4 September 2018

[219], Omniglot, Zarma (Zarmaciine), https://www.omniglot.com/writing/zarma.htm, 4 September 2018

[220], Omniglot, Pitjantjatjara, https://www.omniglot.com/writing/pitjantjatjara.htm, 4 September 2018

[221], Omniglot, Spanish (español/castellano), http://www.omniglot.com/writing/spanish.htm, 4 September 2018

[222], Omniglot, Filipino (wikang Filipino), http://www.omniglot.com/writing/filipino.htm, 4 September 2018

[223], Omniglot, Chavacano, http://www.omniglot.com/writing/chavacano.php, 4 September 2018

[224], Wikipedia, Ilocano language, https://en.wikipedia.org/wiki/Ilocano\_language#Modern\_alphabet, 4 September 2018

[225], Omniglot, Quechua (Runasimi), http://www.omniglot.com/writing/quechua.htm, 4 September 2018

[226], Wikipedia, Quechua alphabet, https://en.wikipedia.org/wiki/Quechua\_alphabet, 4 September 2018

[227], Omniglot, Cape Verdean Creole (Kriolu), http://www.omniglot.com/writing/kriol.php, 4 September 2018

[228], Omniglot, Waray-Waray, http://www.omniglot.com/writing/waray.php, 4 September 2018

[229], Omniglot, Lozi (siLozi), http://www.omniglot.com/writing/lozi.htm, 4 September 2018

[230], africanlanguages.com, Sesotho sa Leboa (Northern Sotho), http://africanlanguages.com/northern\_sotho/, 4 September 2018

[231], Omniglot, Low German (Plattdüütsch / Nedderdüütsch), https://www.omniglot.com/writing/lowgerman.htm, 4 September 2018

[232], Wikipedia, Chechen language, https://en.wikipedia.org/wiki/Chechen\_language, 4 September 2018

[233], Omniglot, Hungarian (magyar), http://www.omniglot.com/writing/hungarian.htm, 4 September 2018

[234], Wikipedia, Hungarian alphabet, https://en.wikipedia.org/wiki/Hungarian\_alphabet, 4 September 2018

[235], Omniglot, Khoekhoe (Khoekhoegowab), http://www.omniglot.com/writing/khoekhoe.htm, 4 September 2018

[236], Omniglot, Lingala, http://www.omniglot.com/writing/lingala.htm, 4 September 2018

[237], Omniglot, Akan, https://www.omniglot.com/writing/akan.htm, 4 September 2018

[238], Wikipedia, Mossi language, https://en.wikipedia.org/wiki/Mossi\_language, 4 September 2018

[239], SIL-Sudan, OCCASIONAL PAPERS in the study of SUDANESE LANGUAGES No. 9, https://www.sil.org/system/files/reapdata/10/06/46/100646256099282892829790816212446104791/OPSL\_9.pdf (p. 75), 4 September 2018

[240], Omniglot, Kanuri, http://www.omniglot.com/writing/kanuri.htm, 4 September 2018

[241], Omniglot, Bugis (Basa Ugi ), http://www.omniglot.com/writing/bugis.htm, 4 September 2018

[242], Omniglot, Mizo (Mizo ṭawng), http://www.omniglot.com/writing/mizo.htm, 4 September 2018

[243], Omniglot, Miskito (Mískitu), http://www.omniglot.com/writing/miskito.htm, 4 September 2018

[244], Omniglot, Zaza (Zazaki / زازاکی), http://www.omniglot.com/writing/zazaki.htm, 4 September 2018

[245], Wikipedia, Papiamento, https://en.wikipedia.org/wiki/Papiamento, 4 September 2018

[246], Omniglot, Papiamento (Papiamentu), http://www.omniglot.com/writing/papiamento.php, 4 September 2018

[247], Omniglot, Chichewa (Chicheŵa), http://www.omniglot.com/writing/chichewa.php, 4 September 2018

[248], Native Languages of the Americas website, Vocabulary in Native American Languages: Mam Words, http://www.native-languages.org/mam\_words.htm, 4 September 2018

[249], Omniglot, Mam (Qyol Mam), http://www.omniglot.com/writing/mam.htm, 4 September 2018

[250], Wikipedia, Pulaar language, https://en.wikipedia.org/wiki/Pulaar\_language, 4 September 2018

[251], Wikipedia, Fula language, https://en.wikipedia.org/wiki/Fula\_language#Writing\_systems, 4 September 2018

[252], Wikipedia, Polish alphabet, https://en.wikipedia.org/wiki/Polish\_alphabet, 4 September 2018

[253], Wikipedia, French orthography, https://en.wikipedia.org/wiki/French\_orthography, 4 September 2018

[254], Omniglot, Yoruba (Èdè Yorùbá), https://www.omniglot.com/writing/yoruba.htm, 4 September 2018

[255], Omniglot, Esperanto, http://www.omniglot.com/writing/esperanto.htm, 4 September 2018

[256], Omniglot, Welsh (Cymraeg), http://www.omniglot.com/writing/welsh.htm, 4 September 2018

[257], Wikipedia, List of Latin-script letters,
<https://en.wikipedia.org/wiki/List_of_Latin-script_letters>, 4 September 2018

## 9.2 Other references

[Procedure] Internet Corporation for Assigned Names and Numbers, "Procedure to Develop and Maintain the Label Generation Rules for the Root Zone in Respect of IDNA Labels." (Los Angeles, California: ICANN, March, 2013). <http://www.icann.org/en/resources/idn/variant-tlds/draft-lgrprocedure-20mar13-en.pdf>

[Requirements] Integration Panel “Requirements for LGR Proposals from Generation Panels”. [https://www.icann.org/en/system/files/files/Requirements-for-LGR-Proposals- 20150424.pdf](https://www.icann.org/en/system/files/files/Requirements-for-LGR-Proposals-)

[UCD] The Unicode Consortium, Unicode Character Database. <http://www.unicode.org/Public/UCD/latest/> ,

[Katz & Frost 1992] ]Katz, Leonard & Ram Frost. 1992. “The Reading Process is Different for Different Orthographies: The Orthographic Depth Hypothesis”. *Haskins Laboratories Status Report on Speech Research* 111/112. 147–160.

[Wikipedia-Latin script] Latin script. Cached version retrieved 2017-02-14. <http://www.webcitation.org/6oGZwoNUu>

[Wikipedia-Capital ẞ] Capital ẞ. Cached version retrieved 2018-01-17. <http://www.webcitation.org/6wXlGtfqc>

[Wikipedia - Ejectives] Ejectives. Cached version retrieved 2018-01-19. <http://www.webcitation.org/6waqfVtj3>

[Wikipedia - ASCII] ASCII. Cached version retrieved 2018-01-20. <http://www.webcitation.org/6waqfVtj3>

[Rogers] Rogers, Henry. 2005. *Writing systems: A linguistic approach*. Malden, Massachusetts: Blackwell Publishing.

Appendix A: Table of processed languages used to develop Latin Script Repertoire

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Language** | **ISO 639-3** | **EGIDS** |
|  | [Afrikaans,](http://www.omniglot.com/writing/afrikaans.htm)  | [afr](http://www-01.sil.org/iso639-3/documentation.asp?id=afr) | 1 |
|  | Albanian, Arbëreshë Albanian [aae] (Italy) Arvanitika Albanian [aat] (Greece) Gheg Albanian [aln] (Serbia) Tosk Albanian [als] | [sqi](http://www-01.sil.org/iso639-3/documentation.asp?id=sqi) | 1 |
|  | [Azeri, Azerbaijani](http://www.omniglot.com/writing/azeri.htm) | [azj](http://www-01.sil.org/iso639-3/documentation.asp?id=azj) | 1 |
|  | [Chamorro, Chamorru Tjamoro](http://www.omniglot.com/writing/chamorro.htm) | [cha](http://www-01.sil.org/iso639-3/documentation.asp?id=cha) | 1 |
|  | [Croatian, Hrvatski](http://www.omniglot.com/writing/croatian.htm) | [hrv](http://www-01.sil.org/iso639-3/documentation.asp?id=hrv) | 1 |
|  | [Czech Bohemian Cestina](http://www.omniglot.com/writing/czech.htm) | [ces](http://www-01.sil.org/iso639-3/documentation.asp?id=ces) | 1 |
|  | [Danish, Dansk Rigsdansk](http://www.omniglot.com/writing/danish.htm) | [dan](http://www-01.sil.org/iso639-3/documentation.asp?id=dan) | 1 |
|  | [Dutch, Hollands Nederlands](http://www.omniglot.com/writing/dutch.htm) | [nld](http://www-01.sil.org/iso639-3/documentation.asp?id=nld) | 1 |
|  | [English](http://www.omniglot.com/writing/english.htm) | [eng](http://www-01.sil.org/iso639-3/documentation.asp?id=eng) | 1 |
|  | [Estonian Eesti keel](http://www.omniglot.com/writing/estonian.htm) | [ekk](http://www-01.sil.org/iso639-3/documentation.asp?id=ekk) | 1 |
|  | [Filipino](http://www.omniglot.com/writing/filipino.htm) | [fil](http://www-01.sil.org/iso639-3/documentation.asp?id=fil) | 1 |
|  | [Finnish, Suomi](http://www.omniglot.com/writing/finnish.htm) | [fin](http://www-01.sil.org/iso639-3/documentation.asp?id=fin) | 1 |
|  | [French, Français](http://www.omniglot.com/writing/french.htm) | [fra](http://www-01.sil.org/iso639-3/documentation.asp?id=fra) | 1 |
|  | [German Deutsch Tedesco](http://www.omniglot.com/writing/german.htm) | [deu](http://www-01.sil.org/iso639-3/documentation.asp?id=deu) | 1 |
|  | [Greenlandic Kalaallisut, Inuktitut,](http://www.omniglot.com/writing/greenlandic.htm)  | [kal](http://www-01.sil.org/iso639-3/documentation.asp?id=kal) | 1 |
|  | [Guarani Avañe’e Paraguayan](http://www.omniglot.com/writing/guarani.htm) | grn | 1 |
|  | [Haitian Creole, Creole, Haitian Creole Western Caribbean Creole](http://www.omniglot.com/writing/haitiancreole.htm) | [hat](http://www-01.sil.org/iso639-3/documentation.asp?id=hat) | 1 |
|  | [Hungarian Magyar](http://www.omniglot.com/writing/hungarian.htm) | [hun](http://www-01.sil.org/iso639-3/documentation.asp?id=hun) | 1 |
|  | [Icelandic Íslenska](http://www.omniglot.com/writing/icelandic.htm) | [isl](http://www-01.sil.org/iso639-3/documentation.asp?id=isl) | 1 |
|  | [Indonesian](http://www.omniglot.com/writing/indonesian.htm) | [ind](http://www-01.sil.org/iso639-3/documentation.asp?id=ind) | 1 |
|  | [Irish Erse Gaeilge Gaelic Irish](http://www.omniglot.com/writing/irish.htm) | [gle](http://www-01.sil.org/iso639-3/documentation.asp?id=gle) | 1 |
|  | [Italian Italiano](http://www.omniglot.com/writing/italian.htm) | [ita](http://www-01.sil.org/iso639-3/documentation.asp?id=ita) | 1 |
|  | [Kazakh, Kaisak, Kazak, Kosach, Qazaq](http://www.omniglot.com/writing/kazakh.htm) | [kaz](http://www-01.sil.org/iso639-3/documentation.asp?id=kaz) | 1 |
|  | [Kinyarwanda, Ikinyarwanda, Orunyarwanda, Ruanda, Rwandan, Urunyaruanda](http://www.omniglot.com/writing/kinyarwanda.htm) | [kin](http://www-01.sil.org/iso639-3/documentation.asp?id=kin) | 1 |
|  | [Kiribati, Gilbertese, Ikiribati, I-Kiribati, Kiribatese](http://www.omniglot.com/writing/kiribati.htm) | [gil](http://www-01.sil.org/iso639-3/documentation.asp?id=gil) | 1 |
|  | [Kirundi, Rundi Urundi,](http://www.omniglot.com/writing/kirundi.php)  | [run](http://www-01.sil.org/iso639-3/documentation.asp?id=run) | 1 |
|  | [Latvian, “Lettisch” (pej.), “Lettish” (pej.)](http://www.omniglot.com/writing/latvian.htm) | lav | 1 |
|  | [Lithuanian, Lietuvi, Lietuviskai, Litauische, Litewski, Litovskiy](http://www.omniglot.com/writing/lithuanian.htm) | [lit](http://www-01.sil.org/iso639-3/documentation.asp?id=lit) | 1 |
|  | [Malagasy, Plateau, Malagasy, Malgache, Official Malagasy, Standard Malagasy](http://www.omniglot.com/writing/malagasy.htm) | [plt](http://www-01.sil.org/iso639-3/documentation.asp?id=plt) | 1 |
|  | [Malay,](http://www.omniglot.com/writing/malay.htm)  | msa | 1 |
|  | [Maltese, Malti](http://www.omniglot.com/writing/maltese.htm) | [mlt](http://www-01.sil.org/iso639-3/documentation.asp?id=mlt) | 1 |
|  | [Marshallese, Ebon](http://www.omniglot.com/writing/marshallese.php) | [mah](http://www-01.sil.org/iso639-3/documentation.asp?id=mah) | 1 |
|  | [Ndebele, Isikhethu, IsiNdebele, Ndzundza, Nrebele, Southern Ndebele, Transvaal Ndebele](http://www.omniglot.com/writing/ndebele.php) | [nbl](http://www-01.sil.org/iso639-3/documentation.asp?id=nbl) | 1 |
|  | [Niuean, Niue, “Niuefekai” (pej.)](http://www.omniglot.com/writing/niuean.php) | [niu](http://www-01.sil.org/iso639-3/documentation.asp?id=niu) | 1 |
|  | [Northern Sotho, Pedi, Sepedi, Sesotho sa Leboa, Transvaal Sotho](http://www.omniglot.com/writing/nsotho.htm) | [nso](http://www-01.sil.org/iso639-3/documentation.asp?id=nso) | 1 |
|  | [Norwegian, Norsk](http://www.omniglot.com/writing/norwegian.htm) | [nor](http://www-01.sil.org/iso639-3/documentation.asp?id=nor) | 1 |
|  | [Papiamento, Papiamentu, Curaçoleño, Curassese, Papiamen, Papiamentoe](http://www.omniglot.com/writing/papiamento.php) | [pap](http://www-01.sil.org/iso639-3/documentation.asp?id=pap) | 1 |
|  | [Polish, Polnisch, Polski](http://www.omniglot.com/writing/polish.htm) | [pol](http://www-01.sil.org/iso639-3/documentation.asp?id=pol) | 1 |
|  | [Portuguese,](http://www.omniglot.com/writing/portuguese.htm)  | [por](http://www-01.sil.org/iso639-3/documentation.asp?id=por) | 1 |
|  | [Romanian, Daco-Rumanian, Moldavian, Rumanian](http://www.omniglot.com/writing/romanian.htm) | [ron](http://www-01.sil.org/iso639-3/documentation.asp?id=ron) | 1 |
|  | [Samoan,](http://www.omniglot.com/writing/samoan.htm)  | [smo](http://www-01.sil.org/iso639-3/documentation.asp?id=smo) | 1 |
|  | [Sango, Sangho](http://www.omniglot.com/writing/sango.php) | [sag](http://www-01.sil.org/iso639-3/documentation.asp?id=sag) | 1 |
|  | [Serbian, srpski, српски,](http://www.omniglot.com/writing/serbian.htm)  | [srp](http://www-01.sil.org/iso639-3/documentation.asp?id=srp) | 1 |
|  | [Seychelles Creole, Seselwa Creole, Creole, Ilois, Kreol, Kreol Seselwa, Seselwa, Seychelles Creole French, Seychellois Creole](http://www.omniglot.com/writing/seselwa.htm) | [crs](http://www-01.sil.org/iso639-3/documentation.asp?id=crs) | 1 |
|  | [Slovak, Slovakian, Slovencina](http://www.omniglot.com/writing/slovak.htm) | [slk](http://www-01.sil.org/iso639-3/documentation.asp?id=slk) | 1 |
|  | [Slovenian, Slovenscina, Slovene](http://www.omniglot.com/writing/slovene.htm) | [slv](http://www-01.sil.org/iso639-3/documentation.asp?id=slv) | 1 |
|  | [Somali, Af-Maxaad Tiri, Af-Soomaali, Common Somali, Soomaaliga, Standard Somali](http://www.omniglot.com/writing/somali.htm) | [som](http://www-01.sil.org/iso639-3/documentation.asp?id=som) | 1 |
|  | [Southern Sotho, Sesotho, Sisutho, Souto, Suthu, Suto](http://www.omniglot.com/writing/sesotho.htm) | [sot](http://www-01.sil.org/iso639-3/documentation.asp?id=sot) | 1 |
|  | [Spanish, Castellano, Castilian, Español](http://www.omniglot.com/writing/spanish.htm) | [spa](http://www-01.sil.org/iso639-3/documentation.asp?id=spa) | 1 |
|  | [Swahili, Kisuaheli, Kiswahili](http://www.omniglot.com/writing/swahili.htm) | [swh](http://www-01.sil.org/iso639-3/documentation.asp?id=swh) | 1 |
|  | [Swati/Swazi, Isiswazi, Ngwane, Phuthi, Siswati, Swazi, Tekela, Tekeza](http://www.omniglot.com/writing/swati.php) | [ssw](http://www-01.sil.org/iso639-3/documentation.asp?id=ssw) | 1 |
|  | [Swedish, Ruotsi, Svenska](http://www.omniglot.com/writing/swedish.htm) | [swe](http://www-01.sil.org/iso639-3/documentation.asp?id=swe) | 1 |
|  | [Tahitian,](http://www.omniglot.com/writing/tahitian.htm)  | [tah](http://www-01.sil.org/iso639-3/documentation.asp?id=tah) | 1 |
|  | [Tok Pisin, Melanesian English, Neomelanesian, New Guinea Pidgin English, Pidgin, Pisin](http://www.omniglot.com/writing/tokpisin.htm) | [tpi](http://www-01.sil.org/iso639-3/documentation.asp?id=tpi) | 1 |
|  | [Tongan, Tonga](http://www.omniglot.com/writing/tongan.htm) | [ton](http://www-01.sil.org/iso639-3/documentation.asp?id=ton) | 1 |
|  | [Tsonga, Shangaan, Shangana, Shitsonga, Thonga, Tonga, Xitsonga](http://www.omniglot.com/writing/tsonga.php) | [tso](http://www-01.sil.org/iso639-3/documentation.asp?id=tso) | 1 |
|  | [Tswana, Beetjuans, Chuana, Coana, Cuana, Sechuana, Setswana](http://www.omniglot.com/writing/tswana.php) | [tsn](http://www-01.sil.org/iso639-3/documentation.asp?id=tsn) | 1 |
|  | [Turkish, Anatolian, Türkçe, Türkisch](http://www.omniglot.com/writing/turkish.htm) | [tur](http://www-01.sil.org/iso639-3/documentation.asp?id=tur) | 1 |
|  | [Turkmen, Trukhmen, Trukhmeny, Turkmani, Turkmanian, Turkmenler, Turkomans](http://www.omniglot.com/writing/turkmen.htm) | [tuk](http://www-01.sil.org/iso639-3/documentation.asp?id=tuk) | 1 |
|  | [Uzbek, Özbek, Usbeki, Uzbak, Uzbeki](http://www.omniglot.com/writing/uzbek.htm) | [uzb](http://www-01.sil.org/iso639-3/documentation.asp?id=uzb) | 1 |
|  | [Venda, Chivenda, Tshivenda](http://www.omniglot.com/writing/venda.htm) | [ven](http://www-01.sil.org/iso639-3/documentation.asp?id=ven) | 1 |
|  | [Vietnamese, Annamese, Ching, Gin, Jing, Kinh, Viet](http://www.omniglot.com/writing/vietnamese.htm) | [vie](http://www-01.sil.org/iso639-3/documentation.asp?id=vie) | 1 |
|  | [Xhosa, “Cauzuh” (pej.), Isixhosa, Koosa, Xosa](http://www.omniglot.com/writing/xhosa.htm) | [xho](http://www-01.sil.org/iso639-3/documentation.asp?id=xho) | 1 |
|  | [Zulu, Isizulu, Zunda](http://www.omniglot.com/writing/zulu.htm) | [zul](http://www-01.sil.org/iso639-3/documentation.asp?id=zul) | 1 |
|  | [Basque, Euskara Euskera Vascuense](http://www.omniglot.com/writing/basque.htm) | [eus](http://www-01.sil.org/iso639-3/documentation.asp?id=eus) | 2 |
|  | [Catalan, Català Catalán Catalan-Valencian-Balear Catalonian Valencian](http://www.omniglot.com/writing/catalan.htm) | [cat](http://www-01.sil.org/iso639-3/documentation.asp?id=cat) | 2 |
|  | [Chechen, Galancho Nokchiin Muott Nokhchiin](http://www.omniglot.com/writing/chechen.htm) | [che](http://www-01.sil.org/iso639-3/documentation.asp?id=che) | 2 |
|  | [Chuukese Chuuk Lagoon Chuukese Ruk Truk Trukese](http://www.omniglot.com/writing/chuukese.htm) | [chk](http://www-01.sil.org/iso639-3/documentation.asp?id=chk) | 2 |
|  | [Faroese Føroyskt](http://www.omniglot.com/writing/faroese.htm) | [fao](http://www-01.sil.org/iso639-3/documentation.asp?id=fao) | 2 |
|  | [Frisian Fries Frysk](http://www.omniglot.com/writing/westfrisian.htm) | [fry](http://www-01.sil.org/iso639-3/documentation.asp?id=fry) | 2 |
|  | [Galician Galego Gallego](http://www.omniglot.com/writing/galician.htm) | [glg](http://www-01.sil.org/iso639-3/documentation.asp?id=glg) | 2 |
|  | [Garo Garrow Mande Mandi](http://www.omniglot.com/writing/garo.htm) | [grt](http://www-01.sil.org/iso639-3/documentation.asp?id=grt) | 2 |
|  | [Hausa Abakwariga Habe Haoussa Hausawa Kado Mgbakpa](http://www.omniglot.com/writing/hausa.htm) | [hau](http://www-01.sil.org/iso639-3/documentation.asp?id=hau) | 2 |
|  | [Hawaiian Olelo Hawai’i ’Olelo Hawai’i Makuahine](http://www.omniglot.com/writing/hawaiian.htm) | [haw](http://www-01.sil.org/iso639-3/documentation.asp?id=haw) | 2 |
|  | [Igbo](http://www.omniglot.com/writing/igbo.htm) | [ibo](http://www-01.sil.org/iso639-3/documentation.asp?id=ibo) | 2 |
|  | [Inari Sámi Anarâškielâ Anar “Finnish Lapp” (pej.) “Inari Lappish” (pej.) “Lapp” (pej.) Saami Saame Sámi Samic](http://www.omniglot.com/writing/inarisami.htm) | [smn](http://www-01.sil.org/iso639-3/documentation.asp?id=smn) | 2 |
|  | [Konkani, Bankoti, Central Konkan, Concorinum, Cugani, Kathodi, Katvadi, Konkan Standard, Konkanese, Konkani Mangalorean, Kunabi, North Konkan](http://www.omniglot.com/writing/konkani.htm) | [knn](http://www-01.sil.org/iso639-3/documentation.asp?id=knn) | 2 |
|  | [Kurdish,](http://www.omniglot.com/writing/kurdish.htm)  | [kur](http://www-01.sil.org/iso639-3/documentation.asp?id=kur) | 2 |
|  | [Lingala, Ngala](http://www.omniglot.com/writing/lingala.htm) | [lin](http://www-01.sil.org/iso639-3/documentation.asp?id=lin) | 2 |
|  | [Lule Sámi, “Lapp” (pej.), Lule, Saami](http://www.omniglot.com/writing/lulesami.htm) | [smj](http://www-01.sil.org/iso639-3/documentation.asp?id=smj) | 2 |
|  | [Mirandese, Mirandês](http://www.omniglot.com/writing/mirandese.htm) | [mwl](http://www-01.sil.org/iso639-3/documentation.asp?id=mwl) | 2 |
|  | [Miskito, Marquito, Mískitu, Miskuto, Mísquito, Mosquito](http://www.omniglot.com/writing/miskito.htm) | [miq](http://www-01.sil.org/iso639-3/documentation.asp?id=miq) | 2 |
|  | [Northern Sámi, Saami North, “Lapp” (pej.), North Sámi, “Northern Lappish” (pej.), Northern Saami, “Norwegian Lapp” (pej.), Saami, Same, Sámegiella, Samic](http://www.omniglot.com/writing/northernsami.htm) | [sme](http://www-01.sil.org/iso639-3/documentation.asp?id=sme) | 2 |
|  | [Palauan, Belauan, Palau](http://www.omniglot.com/writing/palauan.htm) | [pau](http://www-01.sil.org/iso639-3/documentation.asp?id=pau) | 2 |
|  | [Pohnpeian, Ponapean](http://www.omniglot.com/writing/pohnpeian.htm) | [pon](http://www-01.sil.org/iso639-3/documentation.asp?id=pon) | 2 |
|  | [Skolt Sámi, “Lapp” (pej.), Southern Lapp](http://www.omniglot.com/writing/skoltsami.htm) | [sma](http://www-01.sil.org/iso639-3/documentation.asp?id=sma) | 2 |
|  | [Tatar, Tartar](http://www.omniglot.com/writing/tatar.htm) | [tat](http://www-01.sil.org/iso639-3/documentation.asp?id=tat) | 2 |
|  | [Tshiluba, Luba-Kasai, Bena-Lulua, Ciluba, Luba-Lulua, Luva, Tshiluba, Western Luba](http://www.omniglot.com/writing/tshiluba.php) | [lua](http://www-01.sil.org/iso639-3/documentation.asp?id=lua) | 2 |
|  | [Uyghur, Uighuir, Uighur, Uiguir, Uigur, Uygur, Weiwu’er, Wiga](http://www.omniglot.com/writing/uyghur.htm) | [uig](http://www-01.sil.org/iso639-3/documentation.asp?id=uig) | 2 |
|  | [Wa, Paruk, Baraog, Phalok, Praok, Standard Wa, Wa](http://www.omniglot.com/writing/wa.htm) | [prk](http://www-01.sil.org/iso639-3/documentation.asp?id=prk) | 2 |
|  | [Welsh, Cymraeg](http://www.omniglot.com/writing/welsh.htm) | [cym](http://www-01.sil.org/iso639-3/documentation.asp?id=cym) | 2 |
|  | [West Frisian, Fries, Frysk](http://www.omniglot.com/writing/westfrisian.htm) | [fry](http://www-01.sil.org/iso639-3/documentation.asp?id=fry) | 2 |
|  | [Yapese,](http://www.omniglot.com/writing/yapese.htm)  | [yap](http://www-01.sil.org/iso639-3/documentation.asp?id=yap) | 2 |
|  | [Yoruba, Yariba, Yooba](http://www.omniglot.com/writing/yoruba.htm) | [yor](http://www-01.sil.org/iso639-3/documentation.asp?id=yor) | 2 |
|  | Akan, Twi, Ajan Twi | [aka](http://www-01.sil.org/iso639-3/documentation.asp?id=aka) | 3 |
|  | Bislama, Bichelamar | [bis](http://www-01.sil.org/iso639-3/documentation.asp?id=bis) | 3 |
|  | [Bugis Basa Ugi Boegineesche Boeginezen Bugi Buginese De’ Rappang Buginese Ugi](http://www.omniglot.com/writing/bugis.htm) | [bug](http://www-01.sil.org/iso639-3/documentation.asp?id=bug) | 3 |
|  | Cebuano, Binisaya Bisayan Sebuano Sugbuanon Sugbuhanon Visayan | [ceb](http://www-01.sil.org/iso639-3/documentation.asp?id=ceb) | 3 |
|  | [Chichewa Chewa Chinyanja Nyanja Nyanja-Chewa](http://www.omniglot.com/writing/chichewa.php) | [nya](http://www-01.sil.org/iso639-3/documentation.asp?id=nya) | 3 |
|  | Cubeo Cuveo Hehenawa Hipnwa Kobeua Kobewa Kubwa Pamiwa | [cub](http://www-01.sil.org/iso639-3/documentation.asp?id=cub) | 3 |
|  | [Duala Diwala Douala Dualla Dwala Dwela Sawa](http://www.omniglot.com/writing/duala.php) | [dua](http://www-01.sil.org/iso639-3/documentation.asp?id=dua) | 3 |
|  | [Esperanto](http://www.omniglot.com/writing/esperanto.htm) | [epo](https://iso639-3.sil.org/code/epo) | 3 |
|  | [Ewe Ebwe Efe Eibe Eue Eve Gbe Krepe Krepi Popo Vhe Eʋegbe](http://www.omniglot.com/writing/ewe.htm) | [ewe](http://www-01.sil.org/iso639-3/documentation.asp?id=ewe) | 3 |
|  | [Ewondo Ewundu Jaunde Yaounde Yaunde](http://www.omniglot.com/writing/ewondo.php) | [ewo](http://www-01.sil.org/iso639-3/documentation.asp?id=ewo) | 3 |
|  | [Fanagalo Fanakalo Pidgin Zulu Fanekolo Isikula Lololo or Isilololo Piki or Isipiki Silunguboi, Chilapalapa Cikabanga](http://www.omniglot.com/writing/fanagalo.htm) | [fng](http://www-01.sil.org/iso639-3/documentation.asp?id=fng) | 3 |
|  | [Fon Dahomeen Fongbe](http://www.omniglot.com/writing/fon.htm) | [fon](http://www-01.sil.org/iso639-3/documentation.asp?id=fon) | 3 |
|  | [Fula(ni), Fulfulde Pulaar Pular' Fulaare](http://www.omniglot.com/writing/fula.htm) | [fuv](http://www-01.sil.org/iso639-3/documentation.asp?id=fuv) | 3 |
|  | [Ganda Luganda](http://www.omniglot.com/writing/ganda.php) | [lug](http://www-01.sil.org/iso639-3/documentation.asp?id=lug) | 3 |
|  | [Hiligaynon Hiligainon Illogo Ilonggo](http://www.omniglot.com/writing/hiligaynon.htm) | [hil](http://www-01.sil.org/iso639-3/documentation.asp?id=hil) | 3 |
|  | [Iban Dayak](http://www.omniglot.com/writing/iban.htm) | [iba](http://www-01.sil.org/iso639-3/documentation.asp?id=iba) | 3 |
|  | [IlokoIlokano Ilocano](http://www.omniglot.com/writing/ilocano.htm) | [ilo](http://www-01.sil.org/iso639-3/documentation.asp?id=ilo) | 3 |
|  | [Kanuri,](http://www.omniglot.com/writing/kanuri.htm)  | [kau](http://www-01.sil.org/iso639-3/documentation.asp?id=kau) | 3 |
|  | [Kapampangan, Pampangan, Pampango, Pampangueño, Capampangan, Amanung Sisuan](http://www.omniglot.com/writing/kapampangan.php) | [pam](http://www-01.sil.org/iso639-3/documentation.asp?id=pam) | 3 |
|  | [Latin, Latina](http://www.omniglot.com/writing/latin2.htm) | [let](http://www-01.sil.org/iso639-3/documentation.asp?id=lat) | 3 |
|  | [Manado Malay, Manadonese, Manadonese Malay, Minahasan Malay](http://www.omniglot.com/writing/manadomalay.htm) | [xmm](http://www-01.sil.org/iso639-3/documentation.asp?id=xmm) | 3 |
|  | [Masbateño, Masbatenyo, Minasbate](http://www.omniglot.com/writing/masbateno.htm) | [msb](http://www-01.sil.org/iso639-3/documentation.asp?id=msb) | 3 |
|  | [Mossi, Mole, Moose, More, Moshi, Mossi](http://www.omniglot.com/writing/mossi.htm) | [mos](http://www-01.sil.org/iso639-3/documentation.asp?id=mos) | 3 |
|  | [Nagamese, Bodo, Kachari Bengali, Naga Creole Assamese, Naga-Assamese, Naga Pidgin](http://www.omniglot.com/writing/nagamese.php) | [nag](http://www-01.sil.org/iso639-3/documentation.asp?id=nag) | 3 |
|  | Nauruan | [nau](http://www-01.sil.org/iso639-3/documentation.asp?id=nau) | 3 |
|  | [OshiWambo, Cuanhama, Humba, Kuanjama, Kwancama, Kwanjama, Kwanyama, Ochikwanyama, Oshikuanjama, Oshikwanyama, Ovambo, Oxikuanyama, Wambo](http://www.omniglot.com/writing/oshiwambo.php) | [kua](http://www-01.sil.org/iso639-3/documentation.asp?id=kua) | 3 |
|  | Pangasinan | [pag](http://www-01.sil.org/iso639-3/documentation.asp?id=pag) | 3 |
|  | [Pijin, Neo-Solomonic, Solomons Pidgin](http://www.omniglot.com/writing/pijin.htm) | [pis](http://www-01.sil.org/iso639-3/documentation.asp?id=pis) | 3 |
|  | [Quechua, Runasimi , Qhichwa simi](http://www.omniglot.com/writing/quechua.htm) | [que](http://www-01.sil.org/iso639-3/documentation.asp?id=que) | 3 |
|  | [Raga, Hano, Bwatvenua, Lamalanga, North Raga, Qatvenua, Raga, Vunmarama](http://www.omniglot.com/writing/raga.htm) | [lml](http://www-01.sil.org/iso639-3/documentation.asp?id=lml) | 3 |
|  | Roviana, Robiana, Rubiana, Ruviana | [rug](http://www-01.sil.org/iso639-3/documentation.asp?id=rug) | 3 |
|  | [Shona, Chishona, “Swina” (pej.), Zezuru](http://www.omniglot.com/writing/shona.php) | [sna](http://www-01.sil.org/iso639-3/documentation.asp?id=sna) | 3 |
|  | [Sranan, Sranan Tongo, Surinaams, Suriname Creole English, Surinamese, Taki-Taki](http://www.omniglot.com/writing/sranan.htm) | [srn](http://www-01.sil.org/iso639-3/documentation.asp?id=srn) | 3 |
|  | [Tagalog,](http://www.omniglot.com/writing/tagalog.htm)  | [tgl](http://www-01.sil.org/iso639-3/documentation.asp?id=tgl) | 3 |
|  | [Tausūg, Bahasa Sug, Moro Joloano, Sinug, Sulu, Suluk, Tausog, Taw Sug](http://www.omniglot.com/writing/tausug.htm) | [tsg](http://www-01.sil.org/iso639-3/documentation.asp?id=tsg) | 3 |
|  | [Torres-Strait Creole, Ap-Ne-Ap, Blaik, Broken, Cape York Creole, Creole, Torres Strait Broken, Torres Strait Pidgin English, West Torres, Yumplatok](http://www.omniglot.com/writing/tsc.htm) | [tcs](http://www-01.sil.org/iso639-3/documentation.asp?id=tcs) | 3 |
|  | [Tuvaluan, Ellice, Ellicean, Tuvalu](http://www.omniglot.com/writing/tuvaluan.htm) | [tvl](http://www-01.sil.org/iso639-3/documentation.asp?id=tvl) | 3 |
|  | [Umbundu, Kimbari, Mbali, Mbari, M’bundo, Mbundu, Mbundu Benguella, Nano, Olumbali, Ovimbundu, South Mbundu, Umbundo](http://www.omniglot.com/writing/umbundu.htm) | [umb](http://www-01.sil.org/iso639-3/documentation.asp?id=umb) | 3 |
|  | [Waray-Waray, Binisaya, Samaran, Samareño, Samarenyo, Samar-Leyte, Waray](http://www.omniglot.com/writing/waray.php) | [war](http://www-01.sil.org/iso639-3/documentation.asp?id=war) | 3 |
|  | [Wolaytta, Borodda, Ometo, Ualamo, Uba, Uollamo, “Walamo” (pej.), Wallamo, Welamo, Wellamo, Wolaita, Wolaitta, Wolataita, Wolayta, Wollamo](http://www.omniglot.com/writing/wolaytta.htm) | [wal](http://www-01.sil.org/iso639-3/documentation.asp?id=wal) | 3 |
|  | [Zhuang, Nong](http://www.omniglot.com/writing/zhuang.htm) | [zha](http://www-01.sil.org/iso639-3/documentation.asp?id=zha) | 3 |
|  | [Adzera, Atzera, Azera, Atsera or Acira,](http://www.omniglot.com/writing/adzera.htm)  | [adz](http://www-01.sil.org/iso639-3/documentation.asp?id=adz) | 4 |
|  | [Aklan, Aklan, Aklanon or AkeanonInakeanon (native)](http://www.omniglot.com/writing/aklan.htm) | [akl](http://www-01.sil.org/iso639-3/documentation.asp?id=akl) | 4 |
|  | [Arrernte, Arunta, Eastern Aranda, Upper Aranda](http://www.omniglot.com/writing/arrernte.htm) | [aer](http://www-01.sil.org/iso639-3/documentation.asp?id=aer) | 4 |
|  | [Bambara, Bamanankan](http://www.omniglot.com/writing/bambara.htm) | [bam](http://www-01.sil.org/iso639-3/documentation.asp?id=bam) | 4 |
|  | [BashkirBashkir Bashqort Basquort](http://www.omniglot.com/writing/bashkir.htm) | [bak](http://www-01.sil.org/iso639-3/documentation.asp?id=bak) | 4 |
|  | [Cape Verdean Creole, Creole, Kriol, “Badiu” (pej.), Caboverdiano, Criol, Crioulo, Kriol, Krioulo, Krioulu, “Sampadjudu” (pej.), Kabuverdianu](http://www.omniglot.com/writing/kriol.php) | [kea](http://www-01.sil.org/iso639-3/documentation.asp?id=kea) | 4 |
|  | [Central Sinama, “Bajaw” (pej.) Central Sinama Orang Laut Sama Dilaut Samal Siasi Sama Sinama](http://www.omniglot.com/writing/centralsinama.htm) | [sml](http://www-01.sil.org/iso639-3/documentation.asp?id=sml) | 4 |
|  | [Chavacano, Chabacano Chabakano Zamboangueño](http://www.omniglot.com/writing/chavacano.php) | [cbk](http://www-01.sil.org/iso639-3/documentation.asp?id=cbk) | 4 |
|  | [CorsicanCorse Corsi Corso Corsu](http://www.omniglot.com/writing/corsican.htm) | [cos](http://www-01.sil.org/iso639-3/documentation.asp?id=cos) | 4 |
|  | [DagaareDagaare Dagara Dagare Dagari Dagati Degati Dogaari Southern Dagari](http://www.omniglot.com/writing/dagaare.htm) | [dga](http://www-01.sil.org/iso639-3/documentation.asp?id=dga) | 4 |
|  | [DagbaniDagbamba Dagbane Dagomba](http://www.omniglot.com/writing/dagbani.htm) | [dag](http://www-01.sil.org/iso639-3/documentation.asp?id=dag) | 4 |
|  | Dinka, Padang White Nile Dinka Agar Central Dinka Bor Cam Dinka Bor Eastern Dinka Rek Western Dinka | [din](http://www-01.sil.org/iso639-3/documentation.asp?id=din) | 4 |
|  | [DrehuDehu De’u Lifou Lifu Qene Drehu](http://www.omniglot.com/writing/drehu.php) | [dhv](http://www-01.sil.org/iso639-3/documentation.asp?id=dhv) | 4 |
|  | [FijianBoumaa Fijian Eastern Fijian Fiji Standard Fijian](http://www.omniglot.com/writing/fijian.htm) | [fij](http://www-01.sil.org/iso639-3/documentation.asp?id=fij) | 4 |
|  | [Friulian, Frioulan Frioulian Friulano Furlan Priulian](http://www.omniglot.com/writing/friulian.htm) | [fur](http://www-01.sil.org/iso639-3/documentation.asp?id=fur) | 4 |
|  | [Ga Accra Acra Amina Gain](http://www.omniglot.com/writing/ga.htm) | [gaa](http://www-01.sil.org/iso639-3/documentation.asp?id=gaa) | 4 |
|  | [HixkaryanaChawiyana Faruaru Hichkaryana Hishkariana Hishkaryana Hixkariana Hyxkaryana Kumiyana Parucutu Parukoto-Charuma Sherewyana Sokaka Wabui Xereu Xerewyana](http://www.omniglot.com/writing/hixkaryana.htm) | [hix](http://www-01.sil.org/iso639-3/documentation.asp?id=hix) | 4 |
|  | [Ifugao, Ifugaw, Mayaoyaw, Mayoyao](http://www.omniglot.com/writing/ifugao.htm) | [ifu](http://www-01.sil.org/iso639-3/documentation.asp?id=ifu) | 4 |
|  | [Ixil](http://www.omniglot.com/writing/ixil.htm) | [ixl](http://www-01.sil.org/iso639-3/documentation.asp?id=ixl) | 4 |
|  | [JavaneseDjawa Jawa](http://www.omniglot.com/writing/javanese.htm) | [jav](http://www-01.sil.org/iso639-3/documentation.asp?id=jav) | 4 |
|  | [Kagayanen, Cagayano, Kagay-anen, Kinagayanen](http://www.omniglot.com/writing/kagayanen.htm) | [cgc](http://www-01.sil.org/iso639-3/documentation.asp?id=cgc) | 4 |
|  | [Kaqchikel, Cakchiquel, Kaqchikel, Kaqchiquel](http://www.omniglot.com/writing/kaqchikel.htm) | [cak](http://www-01.sil.org/iso639-3/documentation.asp?id=cak) | 4 |
|  | [Khoekhoe, Bergdamara, “Hottentot” (pej.), Khoekhoegowab, Khoekhoegowap, Maqua, Nama, Namakwa, Naman, Namaqua, Tama, Tamakwa, Tamma](http://www.omniglot.com/writing/khoekhoe.htm) | [naq](http://www-01.sil.org/iso639-3/documentation.asp?id=naq) | 4 |
|  | [Ki'che', Central K’iche’, Central Quiché, Chiquel, Qach’abel, Quiché](http://www.omniglot.com/writing/kiche.htm) | [quc](http://www-01.sil.org/iso639-3/documentation.asp?id=quc) | 4 |
|  | [Lozi, Kololo, Kolololo, Rotse, Rozi, Rutse, Silozi, Tozvi](http://www.omniglot.com/writing/lozi.htm) | [loz](http://www-01.sil.org/iso639-3/documentation.asp?id=loz) | 4 |
|  | [Luxembourgish, Frankish, Letzburgisch, Lëtzebuergesch, Luxembourgeois, Luxemburgian, Luxemburgish, Moselle Franconian](http://www.omniglot.com/writing/luxembourgish.htm) | [ltz](http://www-01.sil.org/iso639-3/documentation.asp?id=ltz) | 4 |
|  | [Mam, Huehuetenango Mam](http://www.omniglot.com/writing/mam.htm) | [mam](http://www-01.sil.org/iso639-3/documentation.asp?id=mam) | 4 |
|  | [Maranao, Maranaw, Ranao](http://www.omniglot.com/writing/maranao.htm) | [mrw](http://www-01.sil.org/iso639-3/documentation.asp?id=mrw) | 4 |
|  | [Mbula, Kaimanga, Mangaaba, Mangaava, Mangaawa, Mangap, Mangap-Mbula](http://www.omniglot.com/writing/mbula.htm) | [mna](http://www-01.sil.org/iso639-3/documentation.asp?id=mna) | 4 |
|  | [Mizo, Duhlian Twang, Dulien, Hualngo, Lukhai, Lusago, Lusai, Lusei, Lushai, Lushai-Mizo, Lushei, Sailau, Whelngo](http://www.omniglot.com/writing/mizo.htm) | [lus](http://www-01.sil.org/iso639-3/documentation.asp?id=lus) | 4 |
|  | [Nuer, Naadh, Naath](http://www.omniglot.com/writing/nuer.htm) | [nus](http://www-01.sil.org/iso639-3/documentation.asp?id=nus) | 4 |
|  | [Nuosu (Yi), Black Yi, Liangshan Yi, Northern Yi, Nosu Yi, Sichuan Yi](http://www.omniglot.com/writing/yi.htm) | [iii](http://www-01.sil.org/iso639-3/documentation.asp?id=iii) | 4 |
|  | [Pitjantjatjara, Pitjantjara](http://www.omniglot.com/writing/pitjantjatjara.htm) | [pjt](http://www-01.sil.org/iso639-3/documentation.asp?id=pjt) | 4 |
|  | [Q'eqchi', Cacche’, Kekchi’, Kekchí, Ketchi’, Quecchi’](http://www.omniglot.com/writing/qeqchi.htm) | [kek](http://www-01.sil.org/iso639-3/documentation.asp?id=kek) | 4 |
|  | [Romansh, Rhaeto-Romance, Rheto-Romance, Romanche, Romansh, Rumantsch](http://www.omniglot.com/writing/romansh.htm) | [roh](http://www-01.sil.org/iso639-3/documentation.asp?id=roh) | 4 |
|  | [Scottish Gaelic, Gaelic-Scotish](http://www.omniglot.com/writing/gaelic.htm) | [gla](http://www-01.sil.org/iso639-3/documentation.asp?id=gla) | 4 |
|  | [Shavante, Xavante, Akuên, Akwen, A’uwe Uptabi, A’we, Chavante, Crisca, Pusciti, Shavante, Tapacua](http://www.omniglot.com/writing/shavante.php) | [xav](http://www-01.sil.org/iso639-3/documentation.asp?id=xav) | 4 |
|  | [Sorbian, Haut Sorabe, Hornjoserbski, Hornoserbski, Obersorbisch, Upper Lusatian, Wendish](http://www.omniglot.com/writing/sorbian.htm) | [hsb](http://www-01.sil.org/iso639-3/documentation.asp?id=hsb) | 4 |
|  | [Susu, Sose, Soso, Soussou, Susoo](http://www.omniglot.com/writing/susu.htm) | [sus](http://www-01.sil.org/iso639-3/documentation.asp?id=sus) | 4 |
|  | [Tagabawà, Tagabawa Bagobo, Tagabawa Manobo](http://www.omniglot.com/writing/tagabawa.htm) | [bgs](http://www-01.sil.org/iso639-3/documentation.asp?id=bgs) | 4 |
|  | [Talysh, Talesh, Talish, Talyshi](http://www.omniglot.com/writing/talysh.htm) | [tly](http://www-01.sil.org/iso639-3/documentation.asp?id=tly) | 4 |
|  | [Tumbuka, Chitumbuka, Citumbuka, Tamboka, Tambuka, Timbuka, Tombucas, Tumboka](http://www.omniglot.com/writing/tumbuka.htm) | [tum](http://www-01.sil.org/iso639-3/documentation.asp?id=tum) | 4 |
|  | [Tuvan, Tuva, Diba, Kök Mungak, Soyod, Soyon, Soyot, Tannu-Tuva, Tofa, Tokha, Tuba, Tuvan, Tuvia, Tuvin, Tuvinian, Tyva, Uriankhai, Uriankhai-Monchak, Uryankhai](http://www.omniglot.com/writing/tuvan.php) | [tyv](http://www-01.sil.org/iso639-3/documentation.asp?id=tyv) | 4 |
|  | [Wolof, Ouolof, Volof, Walaf, Waro-Waro, Yallof](http://www.omniglot.com/writing/wolof.htm) | [wol](http://www-01.sil.org/iso639-3/documentation.asp?id=wol) | 4 |
|  | [Zarma, Adzerma, Djerma, Dyabarma, Dyarma, Dyerma, Zabarma, Zarbarma, Zarmaci](http://www.omniglot.com/writing/zarma.htm) | [dje](http://www-01.sil.org/iso639-3/documentation.asp?id=dje) | 4 |
|  | [Zazaki, Northern, Alevica, Dersimki, Dimilki, Kirmanjki, Northern Zaza, So-Bê, Zaza, Zonê Ma](http://www.omniglot.com/writing/zazaki.htm) | [kiu](http://www-01.sil.org/iso639-3/documentation.asp?id=kiu) | 4 |
|  | Acehnese, Achehnese AchineseAceh | [ace](http://www-01.sil.org/iso639-3/documentation.asp?id=ace) | 5 |
|  | Acholi, Acoli Acooli Akoli Atscholi Dok Acoli Gang Lëbacoli Log Acoli Lwo Lwoo Shuli | [ach](http://www-01.sil.org/iso639-3/documentation.asp?id=ach) | 5 |
|  | [Afaan Oromooromo Oromiffa “Galla” (pej.) “Galligna” (pej.) “Gallinya” (pej.) Southern Oromo](http://www.omniglot.com/writing/oromo.htm) | [orm](http://www-01.sil.org/iso639-3/documentation.asp?id=orm) | 5 |
|  | [Afar, Adal, ’Afar Af, Afaraf, “Danakil” (pej.), “Denkel” (pej.), Qafar](http://www.omniglot.com/writing/afar.htm) | [aar](http://www-01.sil.org/iso639-3/documentation.asp?id=aar) | 5 |
|  | Alsatian, Elsässerdeutsche Alsacien Alemanic Alemannisch Schwyzerdütsch | [gsw](http://www-01.sil.org/iso639-3/documentation.asp?id=gsw) | 5 |
|  | [Alur, Aloro, Alua, Alulu, Dho Alur, Jo Alur, Lur, Luri](http://www.omniglot.com/writing/alur.htm) | [alz](http://www-01.sil.org/iso639-3/documentation.asp?id=alz) | 5 |
|  | Bavarian, Bairisch Bavarian Austrian Bayerisch Ost-Oberdeutsch | [bar](http://www-01.sil.org/iso639-3/documentation.asp?id=bar) | 5 |
|  | Brahui, Birahui Brahuidi Brahuigi Kur Galli | [brh](http://www-01.sil.org/iso639-3/documentation.asp?id=brh) | 5 |
|  | [Dholuo Kavirondo Luo Luo Nilotic Kavirondo](http://www.omniglot.com/writing/dholuo.php) | [luo](http://www-01.sil.org/iso639-3/documentation.asp?id=luo) | 5 |
|  | [JamaicanBongo Talk Jamiekan Limon Creole English Patois Patwa Quashie Talk Western Caribbean Creole](http://www.omniglot.com/writing/jamaican.php) | [jam](http://www-01.sil.org/iso639-3/documentation.asp?id=jam) | 5 |
|  | [Kabyle, Amazigh, Kabyl, Kabylia, Tamazight, Taqbaylit](http://www.omniglot.com/writing/kabyle.php) | [kbp](http://www-01.sil.org/iso639-3/documentation.asp?id=kbp) | 5 |
|  | [Kikuyu, Gĩkũyũ, Gekoyo, Gigikuyu,](http://www.omniglot.com/writing/kikuyu.htm)  | [kik](http://www-01.sil.org/iso639-3/documentation.asp?id=kik) | 5 |
|  | [Low Saxon, Low German, Nedderdütsch, Neddersassisch, Nedersaksisch, Niederdeutsch, Niedersaechsisch, Plattdeutsch, Plattdüütsch](http://www.omniglot.com/writing/lowgerman.htm) | [nds](http://www-01.sil.org/iso639-3/documentation.asp?id=nds) | 5 |
|  | [Maasai, Maa, Masai](http://www.omniglot.com/writing/maasai.htm) | [mas](http://www-01.sil.org/iso639-3/documentation.asp?id=mas) | 5 |
|  | [Madurese, Madura, Basa Mathura](http://www.omniglot.com/writing/madurese.htm) | [mad](http://www-01.sil.org/iso639-3/documentation.asp?id=mad) | 5 |
|  | [Makhuwa, Central Makhuwa, Emakhuwa, Emakua, Macua, Makhuwa-Makhuwana, Makhuwwa of Nampula, Makoane, Makua, Maquoua](http://www.omniglot.com/writing/makhuwa.php) | [vmw](http://www-01.sil.org/iso639-3/documentation.asp?id=vmw) | 5 |
|  | [Mandinka, Mande, Manding, Mandingo, Mandingue, Mandinque, Socé](http://www.omniglot.com/writing/mandinka.htm) | [mnk](http://www-01.sil.org/iso639-3/documentation.asp?id=mnk) | 5 |
|  | [Minangkabau, Minang, Padang](http://www.omniglot.com/writing/minangkabau.htm) | [min](http://www-01.sil.org/iso639-3/documentation.asp?id=min) | 5 |
|  | [Mundari, Colh, Horo, Mandari, Mondari, Munari](http://www.omniglot.com/writing/mundari.htm) | [unr](http://www-01.sil.org/iso639-3/documentation.asp?id=unr) | 5 |
|  | [Neapolitan, Napoletano, Neapolitan-Calabrese](http://www.omniglot.com/writing/neapolitan.php) | [nap](http://www-01.sil.org/iso639-3/documentation.asp?id=nap) | 5 |
|  | [Piedmontese, Piemontese, Piemontèis](http://www.omniglot.com/writing/piedmontese.htm) | [pms](http://www-01.sil.org/iso639-3/documentation.asp?id=pms) | 5 |
|  | [Romany,](http://www.omniglot.com/writing/romany.htm)  | [rom](http://www-01.sil.org/iso639-3/documentation.asp?id=rom) | 5 |
|  | [Sasak, Lombok](http://www.omniglot.com/writing/sasak.htm) | [sas](http://www-01.sil.org/iso639-3/documentation.asp?id=sas) | 5 |
|  | [Sicilian, Calabro-Sicilian, Sicilianu, Siculu](http://www.omniglot.com/writing/sicilian.htm) | [scn](http://www-01.sil.org/iso639-3/documentation.asp?id=scn) | 5 |
|  | [Soga, Lusoga, Olusoga](http://www.omniglot.com/writing/soga.htm) | [xog](http://www-01.sil.org/iso639-3/documentation.asp?id=xog) | 5 |
|  | [Soninke, Aswanek, Aswanik, Azer, Ceddo, Cheddo, Gangara, Genger, Kwara, Maraka, Marka, Markaajo, Markakan, Sarakole, Sarakolle, Sarakule, Sarakulle, Sarangkole, Sarangkolle, Saraxuli, Sebbe, Serahule, Serecole, Soninkanxanne, Sooninke, Wakkore, Wankara](http://www.omniglot.com/writing/soninke.htm) | [snk](http://www-01.sil.org/iso639-3/documentation.asp?id=snk) | 5 |
|  | [Tswa, Kitshwa, Sheetshwa, Shitshwa, Tshwa, Xitshwa, Xitswa](http://www.omniglot.com/writing/tswa.htm) | [tsc](http://www-01.sil.org/iso639-3/documentation.asp?id=tsc) | 5 |
|  | [Venetian, Talian, Venet](http://www.omniglot.com/writing/venetian.htm) | [vec](http://www-01.sil.org/iso639-3/documentation.asp?id=vec) | 5 |
|  | [Zazaki, Southern, Dimili, Dimli, Southern Zaza, Zaza, Zazaca](https://www.omniglot.com/writing/zazaki.htm) | [diq](http://www-01.sil.org/iso639-3/documentation.asp?id=diq) | 5 |

# Appendix B: Repertoire table grouped by Glyph

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **#** | **Unicode** | **Glyph** | **Unicode name** | **Languages using the code point (EGIDS)** | **Reference supporting inclusion (URL etc.)** |
|  | **0061** | **a** | LATIN SMALL LETTER A | Basic Latin | [0] |
|  | **0061 + 0331** | **a̱** | LATIN SMALL LETTER A + COMBINING MACRON BELOW | Nuer (4) | [146], [129] |
|  | **00E0** | **à** | LATIN SMALL LETTER A WITH GRAVE | Italian (1)Galician (2)Wolof (4) | [130], [131], [106], [132] |
|  | **00E1** | **á** | LATIN SMALL LETTER A WITH ACUTE | Spanish (1)Czech (1)Icelandic (1)Faroese (2)Kirundi (1)Chuukese (2)Galician (2)Lule Sámi (2)Northern Sámi (2) | [100], [101], [102], [103], [104], [105], [106], [107], [108] |
|  | **00E2** | **â** | LATIN SMALL LETTER A WITH CIRCUMFLEX | Vietnamese (1)Romanian (1)Skolt Sami (2)Kirundi (1)French (1)Galician (2)West Frisian (2)Friulian (4)Xavante (4) | [109], [110], [113], [104], [114], [106], [115], [116], [117] |
|  | **00E3** | **ã** | LATIN SMALL LETTER A WITH TILDE | Umbundu (3)Guarani (1)Nauruan (3)Khoekhoe (4) | [141], [142], [143], [144], [145] |
|  | **00E4** | **ä** | LATIN SMALL LETTER A WITH DIAERESIS | German (1)Finnish (1)Turkmen (1)Estonian (1)Swedish (1)Lule Sámi (2)Yapese (2)Dinka (4)Kaqchikel (4)Bashkir (4)Alsatian (5)Nuer (4) | [119], [120], [121], [122], [123], [107], [124], [125], [126], [127], [128], [129] |
|  | **00E5** | **å** | LATIN SMALL LETTER A WITH RING ABOVE | Danish (1)Finnish (1) Chamorro (1)Swedish (1)Lule Sámi (2) | [139], [120], [140], [123], [107] |
|  | **00E6** | **æ** | LATIN SMALL LETTER AE | Danish (1)Icelandic (1)Faroese (2) | [139], [102], [103] |
|  | **0101** | **ā** | LATIN SMALL LETTER A WITH MACRON | Latvian (1)Tongan (1)Hawaiian (2)Marshallese(1) | [133], [134], [135], [136] |
|  | **0103** | **ă** | LATIN SMALL LETTER A WITH BREVE | Vietnamese (1)Romanian (1) | [109], [110] |
|  | **0105** | **ą** | LATIN SMALL LETTER A WITH OGONEK | Polish (1)Lithuanian (1) | [137], [138] |
|  | **01CE** | **ǎ** | LATIN SMALL LETTER A WITH CARON | Kirundi (1) | [104] [**https://www.dropbox.com/s/ptfclojxkmbceyf/Kirundi%20and%20its%20tonal%20diacritics.docx**](https://www.dropbox.com/s/ptfclojxkmbceyf/Kirundi%20and%20its%20tonal%20diacritics.docx)**Jean Paul Nkurunziza (personal communication)** |
|  | **1EA1** | **ạ** | LATIN SMALL LETTER A WITH DOT BELOW | Vietnamese (1) | [109] |
|  | **1EA3** | **ả** | LATIN SMALL LETTER A WITH HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1EA5** | **ấ** | LATIN SMALL LETTER A WITH CIRCUMFLEX AND ACUTE | Vietnamese (1) | [109] |
|  | **1EA7** | **ầ** | LATIN SMALL LETTER A WITH CIRCUMFLEX AND GRAVE | Vietnamese (1) | [109] |
|  | **1EA9** | **ẩ** | LATIN SMALL LETTER A WITH CIRCUMFLEX AND HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1EAB** | **ẫ** | LATIN SMALL LETTER A WITH CIRCUMFLEX AND TILDE | Vietnamese (1) | [109] |
|  | **1EAD** | **ậ** | LATIN SMALL LETTER A WITH CIRCUMFLEXAND DOT BELOW | Vietnamese (1) | [109] |
|  | **1EAF** | **ắ** | LATIN SMALL LETTER A WITH BREVE AND ACUTE | Vietnamese (1) | [109] |
|  | **1EB1** | **ằ** | LATIN SMALL LETTER A WITH BREVE AND GRAVE | Vietnamese (1) | [109] |
|  | **1EB3** | **ẳ** | LATIN SMALL LETTER A WITH BREVE AND HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1EB5** | **ẵ** | LATIN SMALL LETTER A WITH BREVE AND TILDE | Vietnamese (1) | [109] |
|  | **1EB7** | **ặ** | LATIN SMALL LETTER A WITH BREVE AND DOT BELOW | Vietnamese (1) | [109] |
|  | **0062** | **b** | LATIN SMALL LETTER B | Basic Latin | [0] |
|  | **0253** | **ɓ** | LATIN SMALL LETTER B WITH HOOK | Hausa (2)Dagaare - Burkina Faso (4) Pulaar, (3) | [147], [148], [250] |
|  | 0062 006C | bl | LATIN SMALL LETTER B + LATIN SMALL LETTER L | Added for the variant purpose with 044B |  |
|  | **0063** | **c** | LATIN SMALL LETTER C | Basic Latin | [0] |
|  | **00E7** | **ç** | LATIN SMALL LETTER C WITH CEDILLA | Turkish (1)Turkmen (1)Kurdish (2)French (1)Azerbaijani(1)Basque (1)Galician (2)Friulian (4)Bashkir(4) | [157], [121], [158], [114], [159], [160], [161], [106], [116], [127] |
|  | **0107** | **ć** | LATIN SMALL LETTER C WITH ACUTE | Croatian (1)Serbian (1)Polish (1) | [150], [151], [152] |
|  | **0109** | **ĉ** | LATIN SMALL LETTER C WITH CIRCUMFLEX | Esperanto(3) | [[255]](http://www.omniglot.com/writing/esperanto.htm) |
|  | **010B** | **ċ** | LATIN SMALL LETTER C WITH DOT ABOVE | Maltese(1) | [163] |
|  | **010D** | **č** | LATIN SMALL LETTER C WITH CARON | Croatian (1)Serbian (1)Latvian (1)Slovak(1)Northern Sámi(2)Lithuanian (1) | [150], [151], [133], [153], [108], [154]  |
|  | **0064** | **d** | LATIN SMALL LETTER D | Basic Latin  | [0] |
|  | **00F0** | **ð** | LATIN SMALL LETTER ETH | Faroese (2)Icelandic (1) | [103], [102] |
|  | **010F** | **ď** | LATIN SMALL LETTER D WITH CARON | Czech (1)Slovak (1) | [101], [153] |
|  | **0111** | **đ** | LATIN SMALL LETTER D WITH STROKE | Croatian (1)Serbian (1)Vietnamese (1)Northern SámiBrahui (5) | [150], [151], [109], [108], [168] |
|  | **0256** | **ɖ** | LATIN SMALL LETTER D WITH TAIL | Fon (3)Ewe (3) | [169], [170] |
|  | **0257** | **ɗ** | LATIN SMALL LETTER D WITH HOOK | Hausa (2)Pulaar (3) | [147], [166], [250] |
|  | **1E13** | **ḓ** | LATIN SMALL LETTER D WITH CIRCUMFLEX BELOW | Venda (1) | [164], [257] |
|  | **0065** | **e** | LATIN SMALL LETTER E | Basic Latin | [0] |
|  | **0065 + 0331** | **e̱** | LATIN SMALL LETTER E + COMBINING MACRON BELOW | Nuer (4) | [146] |
|  | **00E8** | **è** | LATIN SMALL LETTER E WITH GRAVE  | French (1)Italian (1) Afrikaans (1)Kirundi (1)Haitian Creole (1) French (1) | [114], [130], [175], [104], [182], [183] |
|  | **00E9** | **é** | LATIN SMALL LETTER E WITH ACUTE | French (1)Italian (1) Spanish (1)Czech (1)Icelandic (1)Kirundi (1)Chuukese (2)Galician (2)Wolof (4)XAVANTE (4)West Frisian (2) | [114], [130], [100], [101], [102], [104], [105], [106], [132], [117], [115] |
|  | **00EA** | **ê** | LATIN SMALL LETTER E WITH CIRCUMFLEX | French (1)Tswana (1)Afrikaans (1)Vietnamese (1)Kurdish (2)Kirundi (1)West Frisian (2)Friulian (4) | [114], [173], [174], [175], [109], [158], [104], [115], [116] |
|  | **00EB** | **ë** | LATIN SMALL LETTER E WITH DIAERESIS | Afrikaans (1)Kirundi (1)Albanian (1)French (1)Chuukese (2)Uyghur (2)Yapese (2)Wolof (4)Drehu (4)Kaqchikel (4)West Frisian (2)Nuer (4) | [175], [104], [176], [177], [114], [176], [177], [114], [178], [179], [124], [132], [180], [126], [115], [129] |
|  | **0113** | **ē** | LATIN SMALL LETTER E WITH MACRON | Latvian (1)Hawaiian (2)Tongan (1)Minangkabau (5) | [133], [135], [134], [184] |
|  | **0117** | **ė** | LATIN SMALL LETTER E WITH DOT ABOVE | Lithuanian (1) | [138], [154] |
|  | **0119** | **ę** | LATIN SMALL LETTER E WITH OGONEK | Polish (1)Palauan (2)Lithuanian (1) | [152], [185], [138], [154] |
|  | **011B** | **ě** | LATIN SMALL LETTER E WITH CARON | Czech (1)Kirundi (1)Sorbian (4) | [101], [104], [172] |
|  | **01DD** | **ǝ** | LATIN SMALL LETTER TURNED E | Kanuri (3) | [240] |
|  | **0259** | **ə** | LATIN SMALL LETTER SCHWA | Azeri, Azerbaijani(1)Ewondo (3)Ewe (3)Bugis (3) | [159], [190], [170], [241] |
|  | **025B** | **ɛ** | LATIN SMALL LETTER OPEN E | Dagaare - Burkina Faso (4)Lingala (2)Akan (3)Ewondo (3)Dagbani (Dagomba) (4)Fon (3)Mossi (3)Ga (4)Ewe (3)Duala (3)Bambara (4)Nuer (4) | [148], [236], [237], [190], [189], [169], [212], [238], [193], [170], [194], [199], [129] |
|  | **025B + 0308** | **ɛ̈** | LATIN SMALL LETTER OPEN E + COMBINING DIAERESIS | Nuer (4)Dinka (4) | [129], [146], [239], [125] |
|  | **025B + 0331** | **ɛ̱** | LATIN SMALL LETTER OPEN E + COMBINING MACRON BELOW | Nuer (4) | [129], [146], [239] |
|  | **025B + 0331 + 0308** | **ɛ̱̈** | LATIN SMALL LETTER OPEN E + COMBINING MACRON BELOW + COMBINING DIAERESIS  | Nuer (4) | [146], [239] |
|  | **1EB9** | **ẹ** | LATIN SMALL LETTER E WITH DOT BELOW | Yoruba(2) | [181] |
|  | **1EB9 + 0300** | **ẹ̀** | LATIN SMALL LETTER E WITH DOT BELOW + COMBINING GRAVE ACCENT | Yoruba (2) | [254] |
|  | **1EB9 + 0301** | **ẹ́** | LATIN SMALL LETTER E WITH DOT BELOW + COMBINING ACUTE ACCENT | Yoruba (2) | [254] |
|  | **1EBB** | **ẻ** | LATIN SMALL LETTER E WITH HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1EBD** | **ẽ** | LATIN SMALL LETTER E WITH TILDE | Umbundu (3)Guarani (1)Cubeo (3)Xavante (4) | [141], [142], [143], [186], [187], [117] |
|  | **1EBF** | **ế** | LATIN SMALL LETTER E WITH CIRCUMFLEX AND ACUTE | Vietnamese (1) | [109] |
|  | **1EC1** | **ề** | LATIN SMALL LETTER E WITH CIRCUMFLEX AND GRAVE | Vietnamese (1) | [109] |
|  | **1EC3** | **ể** | LATIN SMALL LETTER E WITH CIRCUMFLEX AND HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1EC5** | **ễ** | LATIN SMALL LETTER E WITH CIRCUMFLEX AND TILDE | Vietnamese (1) | [109] |
|  | **1EC7** | **ệ** | LATIN SMALL LETTER E WITH CIRCUMFLEXAND DOT BELOW | Vietnamese (1) | [109] |
|  | **0066** | **f** | LATIN SMALL LETTER F | Basic Latin | [0] |
|  | **0192** | **ƒ** | LATIN SMALL LETTER F WITH HOOK | Ewe(3) | [170] |
|  | **0067** | **g** | LATIN SMALL LETTER G | Basic Latin | [0] |
|  | **0067 + 0303** | **g̃** | LATIN SMALL LETTER G + COMBINING TILDE | Guarani (1) | [142], [143] |
|  | **0067 + 0304** | **ḡ** | LATIN SMALL LETTER G + COMBINING MACRON | Raga (Hano) (3) | [200] |
|  | **011D** | **ĝ** | LATIN SMALL LETTER G WITH CIRCUMFLEX | Esperanto(3) | [[255]](http://www.omniglot.com/writing/esperanto.htm) |
|  | **011F** | **ğ** | LATIN SMALL LETTER G WITH BREVE | Turkish (1)Tatar (2) Azeri(1)Bashkir(4)Zaza (5) | [157], [201], [159], [127], [202] |
|  | **0121** | **ġ** | LATIN SMALL LETTER G WITH DOT ABOVE | Maltese(1) | [163] |
|  | **0123** | **ģ** | LATIN SMALL LETTER G WITH CEDILLA | Latvian (1)Brahui (5) | [133], [168] |
|  | **01E7** | **ǧ** | LATIN SMALL LETTER G WITH CARON | Skolt Sami (2) | [113] |
|  | **0263** | **ɣ** | LATIN SMALL LETTER GAMMA | Dagbani (Dagomba) (4)Nuer (4)Dinka (4)Ewe (3)Nuer (4) | [189], [146], [125], [170], [129] |
|  | **0068** | **h** | LATIN SMALL LETTER H | Basic Latin | [0] |
|  | **0125** | **ĥ** | LATIN SMALL LETTER H WITH CIRCUMFLEX | Esperanto(3) | [255] |
|  | **0127** | **ħ** | LATIN SMALL LETTER H WITH STROKE | Maltese(1) | [163] |
|  | **0069** | **i** | LATIN SMALL LETTER I | Basic Latin | [0] |
|  | **0069 + 0331** | **i̲** | LATIN SMALL LETTER I + COMBINING MACRON BELOW | Nuer (4) | [146] |
|  | **00EC** | **ì** | LATIN SMALL LETTER I WITH GRAVE | Italian (1)Kirundi (1) | [130], [206], [208] |
|  | **00ED** | **í** | LATIN SMALL LETTER I WITH ACUTE | Spanish (1)Czech (1) Icelandic (1) Faroese (2) Kirundi (1)Galician (2)Bashkir(4) | [100], [101], [102], [103], [104], [106], [127] |
|  | **00EE** | **î** | LATIN SMALL LETTER I WITH CIRCUMFLEX | Afrikaans (1)Romanian (1)Kurdish (2) Kirundi (1) French (1)Friulian (4) | [175], [110], [158], [104], [114], [116] |
|  | **00EF** | **ï** | LATIN SMALL LETTER I WITH DIAERESIS | Afrikaans (1)French (1)Kaqchikel (4)Dinka (4)West Frisian (2) | [175], [114], [126], [125], [115] |
|  | **0129** | **ĩ** | LATIN SMALL LETTER I WITH TILDE | Guarani (1)Cubeo (3)Khoekhoe (4)Kikuyu ( 5) | [142], [143], [186], [145], [209] |
|  | **012B** | **ī** | LATIN SMALL LETTER I WITH MACRON | Latvian (1)Lithuanian (1) Hawaiian (2)Tongan (1) | [133], [138], [135], [134] |
|  | **012F** | **į** | LATIN SMALL LETTER I WITH OGONEK | Lithuanian (1) | [154] |
|  | **0131** | **ı** | LATIN SMALL LETTER I DOTLESS | Turkish (1)Tatar (2) Azeri(1) | [157], [203], [201], [159] |
|  | **0135** | **ĵ** | LATIN SMALL LETTER J WITH CEDILLA | Esperanto(3) | [255] |
|  | **01D0** | **ǐ** | LATIN SMALL LETTER I WITH CARON | Kirundi (1) | [104] |
|  | **0268** | **ɨ** | LATIN SMALL LETTER I WITH STROKE | Cubeo (3)Dagbani (Dagomba) (4)HIxkaryána (4)Maasai (5) | [186], [189], [210], [211] |
|  | **0268 + 0303** | **ɨ̃** | LATIN SMALL LETTER I WITH STROKE + COMBINING TILDE | Cubeo (3) | [186] |
|  | **1EC9** | **ỉ** | LATIN SMALL LETTER I WITH HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1ECB** | **ị** | LATIN SMALL LETTER I WITH DOT BELOW | Igbo (2) | [205] |
|  | **006A** | **j** | LATIN SMALL LETTER J | Basic Latin | [0] |
|  | **0269** | **ɩ** | LATIN SMALL LETTER IOTA | Dagaare - Burkina Faso (4) Mossi (3) | [148], [212] |
|  | **006B** | **k** | LATIN SMALL LETTER K | Basic Latin | [0] |
|  | **0137** | **ķ** | LATIN SMALL LETTER K WITH CEDILLA | Latvian (1) | [133] |
|  | **0199** | **ƙ** | LATIN SMALL LETTER K WITH HOOK | Hausa (2) | [147] |
|  | **01E9** | **ǩ** | LATIN SMALL LETTER K WITH CARON | Skolt Sami (2) | [113] |
|  | **006C** | **l** | LATIN SMALL LETTER L | Basic Latin | [0] |
|  | **013A** | **ĺ** | LATIN SMALL LETTER L WITH ACUTE | Slovak (1) | [153] |
|  | **013C** | **ļ** | LATIN SMALL LETTER L WITH CEDILLA | Latvian (1)Marshallese (1)Brahui (5) | [133], [213], [214], [168] |
|  | **013E** | **ľ** | LATIN SMALL LETTER L WITH CARON | Slovak (1) | [153] |
|  | **0142** | **ł** | LATIN SMALL LETTER L WITH STROKE | Polish (1) | [152] |
|  | **1E37** | **ḷ** | LATIN SMALL LETTER L WITH DOT BELOW | Marshallese (1) | [213], [214], [215], [216] |
|  | **1E3D** | **ḽ** | LATIN SMALL LETTER L WITH CIRCUMFLEX BELOW | Venda (1) | [164], [257] |
|  | **006D** | **m** | LATIN SMALL LETTER M | Basic Latin | [0] |
|  | **006D + 0327** | **m̦** | LATIN SMALL LETTER M + COMBINING CEDILLA | Marshallese (1) | [213], [136], [214] |
|  | **1E43** | **ṃ** | LATIN SMALL LETTER M WITH DOT BELOW | Marshallese (1) | [213], [136], [215], [216] |
|  | **006E** | **n** | LATIN SMALL LETTER N | Basic Latin | [0] |
|  | **006E + 0304** | **n̄** | LATIN SMALL LETTER N + COMBINING MACRON | Raga (Hano) (3)Marshallese (1) | [200], [213], [136] |
|  | **006E + 0308** | **n̈** | LATIN SMALL LETTER N + COMBINING DIAERESIS |  Malagasy(1) | [230] |
|  | **00F1** | **ñ** | LATIN SMALL LETTER N WITH TILDE | Spanish (1)Pulaar (3)Chamorro (1)Filipino (1)Guarani (1)Chavacano (4)Basque (1)Galician (2)Iloco (3)Quechua (3)Cape Verdean Creole (4)Waray-Waray (3)Wolof (4)Nauruan(3)Lozi (4)Bashkir (4)Marshallese (1)Mandinka (5)Igbo(2) | [221], [250] [222], [142], [143], [223], [160], [106], [224], [225], [226], [227], [228], [132], [144], [229], [127], [136], [197], [205] |
|  | **0144** | **ń** | LATIN SMALL LETTER N WITH ACUTE | Polish (1)Lule Sámi (2)Sorbian (4)Brahui (5) | [152], [107], [172], [168] |
|  | **0146** | **ņ** | LATIN SMALL LETTER N WITH CEDILLA | Latvian (1)Marshallese(1) | [133], [136] |
|  | **0148** | **ň** | LATIN SMALL LETTER N WITH CARON | Turkmen (1)Czech (1)Slovak (1) | [121], [101], [153] |
|  | **014B** | **ŋ** | LATIN SMALL LETTER ENG | Inari Sami (2)Dagaare - Burkina Faso (4)Dagbani (Dagomba) (4)Northern Sami (2)Ewondo (3)Luganda (3)Wolof (4)Adzera(4)Nuer (4)Ga (4)Dinka (4)Duala(3)Ewe (3)Soga (5) Alur (5) Mandinka (5) Acholi (5)Bambara (4)Nuer (4) | [188], [148], [189], [108], [190], [191], [132], [192], [146], [193], [125], [194], [170], [195], [196], [197], [198], [199], [129] |
|  | **0272** | **ɲ** | LATIN SMALL LETTER N WITH LEFT HOOK | Susu (4)Zarma (4)Bambara (4) | [218], [219], [199] |
|  | **1E45** | **ṅ** | LATIN SMALL LETTER N WITH DOT ABOVE | Venda (1) | [164], [257] |
|  | **1E47** | **ṇ** | LATIN SMALL LETTER N WITH DOT BELOW | Marshallese (1) | [136], [215], [216] |
|  | **1E49** | **ṉ** | LATIN SMALL LETTER N WITH LINE BELOW | Pitjantjatjara (4) | [220] |
|  | **1E4B** | **ṋ** | LATIN SMALL LETTER N WITH CIRCUMFLEX BELOW | Venda (1) | [164], [257] |
|  | **006F** | **o** | LATIN SMALL LETTER O | Basic Latin | [0] |
|  | **006F + 0327** | **o̧** | LATIN SMALL LETTER O + COMBINING CEDILLA | Marshallese (1) | [136] |
|  | **006F + 0331** | **o̱** | LATIN SMALL LETTER O + COMBINING MACRON BELOW | Nuer (4) | [146], [129] |
|  | **00F2** | **ò** | LATIN SMALL LETTER O WITH GRAVE | Italian (1)Haitian Creole (1) | [130], [182], [183] |
|  | **00F3** | **ó** | LATIN SMALL LETTER O WITH ACUTE | Spanish (1)Polish (1)Czech (1)Icelandic (1)Kirundi (1)Chuukese (2)Galician (2)Wolof (4) | [100], [152], [101], [102], [104], [105], [106], [132] |
|  | **00F4** | **ô** | LATIN SMALL LETTER O WITH CIRCUMFLEX | Tswana (1)Afrikaans (1)Vietnamese (1)Kirundi (1)French (1)Northern Sotho(1)West Frisian (2)Galician (2)Friulian (4)Xavante(4) | [173], [174], [175], [109], [104], [114], [230], [115], [106], [116], [117] |
|  | **00F5** | **õ** | LATIN SMALL LETTER O WITH TILDE | Estonian (1)Skolt Sami (2)Umbundu (3)Guarani (1)Nauruan (3)Xavante (4)Khoekhoe (4) | [122], [113], [141], [142], [143], [144], [117], [235] |
|  | **00F6** | **ö** | LATIN SMALL LETTER O WITH DIAERESIS | German (1)Finnish (1)Afrikaans (1)Turkish (1)Swedish (1)Uygur (2)Yapese (2)Drehu (4)Kaqchikel (4)Dinka (4)Bashkir (4)Low German (5)Chechen (2) 1992 VersionWest Frisian (2)Nuer (4) | [119], [120], [175], [157], [123], [179], [124], [180], [126], [125], [127], [231], [232], [115], [129] |
|  | **00F8** | **ø** | LATIN SMALL LETTER O WITH STROKE | Danish (1)Faroese (2) | [139], [103] |
|  | **014D** | **ō** | LATIN SMALL LETTER O WITH MACRON | Hawaiian (2)Marshallese (1)Tongan (1) | [135], [136], [134] |
|  | **0151** | **ő** | LATIN SMALL LETTER O WITH DOUBLE ACUTE | Hungarian (1) | [233], [234] |
|  | **0153** | **œ** | LATIN SMALL LIGATURE OE | French (1) | [114], [253] |
|  | **01A1** | **ơ** | LATIN SMALL LETTER O WITH HORN | Vietnamese (1) | [109] |
|  | **01D2** | **ǒ** | LATIN SMALL LETTER O WITH CARON | Kirundi (1) | [104] |
|  | **0254** | **ɔ** | LATIN SMALL LETTER OPEN O | Dagaare - Burkina Faso (4)Dagbani (Dagomba) (4)Lingala (2)Akan (3)Ewondo (3)Fon (3)Nuer (4)Ga (4)Duala (3)EWE (3)Nuer (4) | [148], [189], [236], [237], [190], [169], [146], [193], [194], [170], [129] |
|  | **0254 + 0308** | **ɔ̈** | LATIN SMALL LETTER OPEN O + COMBINING DIAERESIS | DINKA (4) | [125] |
|  | **0254 + 0331** | **ɔ̱** | LATIN SMALL LETTER OPEN O + COMBINING MACRON BELOW | Nuer (4) | [129], [146] |
|  | **1ECD** | **ọ** | LATIN SMALL LETTER O WITH DOT BELOW | Igbo (2)Yoruba (2)Marshallese (1) | [204], [205], [181], [136], [215], [216] |
|  | **1ECD + 0300** | **ọ̀** | LATIN SMALL LETTER O WITH DOT BELOW + COMBINING GRAVE ACCENT | Yoruba (2) | [254] |
|  | **1ECD + 0301** | **ọ́** | LATIN SMALL LETTER O WITH DOT BELOW + COMBINING ACUTE ACCENT | Yoruba (2) | [254] |
|  | **1ECF** | **ỏ** | LATIN SMALL LETTER O WITH HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1ED1** | **ố** | LATIN SMALL LETTER O WITH CIRCUMFLEX AND ACUTE | Vietnamese (1) | [109] |
|  | **1ED3** | **ồ** | LATIN SMALL LETTER O WITH CIRCUMFLEX AND GRAVE | Vietnamese (1) | [109] |
|  | **1ED5** | **ổ** | LATIN SMALL LETTER O WITH CIRCUMFLEX AND HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1ED7** | **ỗ** | LATIN SMALL LETTER O WITH CIRCUMFLEX AND TILDE | Vietnamese (1) | [109] |
|  | **1ED9** | **ộ** | LATIN SMALL LETTER O WITH CIRCUMFLEX AND DOT BELOW | Vietnamese (1) | [109] |
|  | **1EDB** | **ớ** | LATIN SMALL LETTER O WITH HORN AND ACUTE | Vietnamese (1) | [109] |
|  | **1EDD** | **ờ** | LATIN SMALL LETTER O WITH HORN AND GRAVE | Vietnamese (1) | [109] |
|  | **1EDF** | **ở** | LATIN SMALL LETTER O WITH HORN AND HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1EE1** | **ỡ** | LATIN SMALL LETTER O WITH HORN AND TILDE | Vietnamese (1) | [109] |
|  | **1EE3** | **ợ** | LATIN SMALL LETTER O WITH HORN AND DOT BELOW | Vietnamese (1) | [109] |
|  | **0070** | **p** | LATIN SMALL LETTER P  | Basic Latin | [0] |
|  | **00FE** | **þ** | LATIN SMALL LETTER THORN | Icelandic (1) | [102] |
|  | **0071** | **q** | LATIN SMALL LETTER Q | Basic Latin | [0] |
|  | **0072** | **r** | LATIN SMALL LETTER R | Basic Latin | [0] |
|  | **0072 + 0303** | **r̃** | LATIN SMALL LETTER R + COMBINING TILDE | Hausa (2) | [147] |
|  | **0155** | **ŕ** | LATIN SMALL LETTER R WITH ACUTE | Slovak (1)Brahui (5) | [153], [168] |
|  | **0159** | **ř** | LATIN SMALL LETTER R WITH CARON | Czech (1)Sorbian (4) | [101], [172] |
|  | **024D** | **ɍ** | LATIN SMALL LETTER R WITH STROKE | Kanuri (3) | [240] |
|  | **0073** | **s** | LATIN SMALL LETTER S | Basic Latin | [0] |
|  | **00DF** | **ß** | LATIN SMALL LETTER SHARP S | German (1) | [119] |
|  | **015B** | **ś** | LATIN SMALL LETTER S WITH ACUTE | Polish (1) | [152] |
|  | **015D** | **ŝ** | LATIN SMALL LETTER S WITH CIRCUMFLEX | Esperanto (3) | [255] |
|  | **015F** | **ş** | LATIN SMALL LETTER S WITH CEDILLA | Turkish (1)Turkmen (1)Kurdish (2)Tatar (2)Azeri(1)Bashkir(4)Brahui (5)Zaza (5) | [157], [121], [158], [201], [159], [127], [168], [202] |
|  | **0161** | **š** | LATIN SMALL LETTER S WITH CARON | Tswana (1)Croatian (1)Serbian (1)Latvian (1)Northern Sotho (1)Nothert Sami(2)Lithuanian (1) | [174], [150], [151], [133], [230], [108], [154] |
|  | **0219** | **ș** | LATIN SMALL LETTER S WITH COMMA BELOW | Romanian (1) | [110] |
|  | **1E63** | **ṣ** | LATIN SMALL LETTER S WITH DOT BELOW | Yoruba (2) | [181] |
|  | **0074** | **t** | LATIN SMALL LETTER T | Basic Latin | [0] |
|  | **0165** | **ť** | LATIN SMALL LETTER T WITH CARON | Czech (1)Slovak (1) | [101], [153] |
|  | **0167** | **ŧ** | LATIN SMALL LETTER T WITH STROKE | Northern Sami(2)Brahui (5) | [108], [168] |
|  | **021B** | **ț** | LATIN SMALL LETTER T WITH COMMA BELOW | Romanian (1) | [110] |
|  | **1E6D** | **ṭ** | LATIN SMALL LETTER T WITH DOT BELOW | Mizo (4) | [242] |
|  | **1E71** | **ṱ** | LATIN SMALL LETTER T WITH CIRCUMFLEX BELOW | Venda (1) | [164]**, [257]** |
|  | **0075** | **u** | LATIN SMALL LETTER U | Basic Latin | [0] |
|  | **00F9** | **ù** | LATIN SMALL LETTER U WITH GRAVE | Italian (1)Papiamento (1) | [130], [206], [245], [246] |
|  | **00FA** | **ú** | LATIN SMALL LETTER U WITH ACUTE | Spanish (1)Czech (1)Icelandic (1)Faroese (2)Kirundi (1)Chuukese (2)West Frisian (2)Galician (2) | [100], [101], [102], [103], [104], [105], [115], [106] |
|  | **00FB** | **û** | LATIN SMALL LETTER U WITH CIRCUMFLEX | Afrikaans (1) Kurdish (2)Kirundi (1)French (1)Miskito (2)West Frisian (2)Friulian (4)Zazaki (4) | [175], [158], [104], [114], [243], [115], [116], [244] |
|  | **00FC** | **ü** | LATIN SMALL LETTER U WITH DIAERESIS | German (1)Spanish (1)Afrikaans (1)Turkish (1)Swedish (1)French (1)Azeri(1)Basque (1)Galician (2)Uygur (2)Kaqchikel (4)Bashkir (4) | [119], [100], [175], [157], [123], [114], [159], [161], [106], [179], [126], [127], [231] |
|  | **0169** | **ũ** | LATIN SMALL LETTER U WITH TILDE | Umbundu (3)Guarani (1)Nauruan (3)Khoekhoe (4)Kikuyu (5) | [141], [142], [143], [144], [145], [209] |
|  | **016B** | **ū** | LATIN SMALL LETTER U WITH MACRON | Latvian (1)Hawaiian (2)Lithuanian (1)Marshallese (1)Tongan (1) | [133], [135], [138], [154], [136], [134] |
|  | **016D** | **ŭ** | LATIN SMALL LETTER U WITH BREVE | Esperanto(3) | [255] |
|  | **016F** | **ů** | LATIN SMALL LETTER U WITH RING ABOVE | Czech (1) | [101] |
|  | **0171** | **ű** | LATIN SMALL LETTER U WITH DOUBLE ACUTE | Hungarian (1) | [233], [234] |
|  | **0173** | **ų** | LATIN SMALL LETTER U WITH OGONEK | Lithuanian (1) | [154], [138] |
|  | **01B0** | **ư** | LATIN SMALL LETTER U WITH HORN | Vietnamese (1) | [109] |
|  | **01D4** | **ǔ** | LATIN SMALL LETTER U WITH CARON | Kirundi (1) | [104] |
|  | **0289** | **ʉ** | LATIN SMALL LETTER U BAR | Cubeo (3)Maasai (5) | [186], [187], [211] |
|  | **0289 + 0303** | **ʉ̃** | LATIN SMALL LETTER U BAR + COMBINING TILDE | Cubeo (3) | [186], [187] |
|  | **1EE5** | **ụ** | LATIN SMALL LETTER U WITH DOT BELOW | Igbo (2) | [204], [205] |
|  | **1EE7** | **ủ** | LATIN SMALL LETTER U WITH HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1EE9** | **ứ** | LATIN SMALL LETTER U WITH HORN AND ACUTE | Vietnamese (1) | [109] |
|  | **1EEB** | **ừ** | LATIN SMALL LETTER U WITH HORN AND GRAVE | Vietnamese (1) | [109] |
|  | **1EED** | **ử** | LATIN SMALL LETTER U WITH HORN AND HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1EEF** | **ữ** | LATIN SMALL LETTER U WITH HORN AND TILDE | Vietnamese (1) | [109] |
|  | **1EF1** | **ự** | LATIN SMALL LETTER U WITH HORN AND DOT BELOW | Vietnamese (1) | [109] |
|  | **0076** | **v** | LATIN SMALL LETTER V | Basic Latin | [0] |
|  | **028B** | **ʋ** | LATIN SMALL LETTER V WITH HOOK | Dagaare - Burkina Faso (4)Mossi (3)Ewe (3) | [148], [212], [238], [170] |
|  | **0077** | **w** | LATIN SMALL LETTER W | Basic Latin | [0] |
|  | **0175** | **ŵ** | LATIN SMALL LETTER W WITH CIRCUMFLEX | Chichewa (3) | [247] |
|  | **0078** | **x** | LATIN SMALL LETTER X | Basic Latin | [0] |
|  | **1E8D** | **ẍ** | LATIN SMALL LETTER X WITH DIAERESIS | Mam (4) | [248], [249] |
|  | **0079** | **y** | LATIN SMALL LETTER Y | Basic Latin | [0] |
|  | **00FD** | **ý** | LATIN SMALL LETTER Y WITH ACUTE | Turkmen (1)Czech (1)Icelandic (1)Faroese (2)Guarani (1) | [121], [101], [102], [103], [142], [143] |
|  | **00FF** | **ÿ** | LATIN SMALL LETTER Y WITH DIAERESIS | French(1) | [114], [253], [257] |
|  | **0177** | **ŷ** | LATIN SMALL LETTER Y WITH CIRCUMFLEX | Welsh (2) | [256] |
|  | **01B4** | **ƴ** | LATIN SMALL LETTER Y WITH HOOK | Dagaare - Burkina Faso (4) | [148], [251], [149] |
|  | **1EF3** | **ỳ** | LATIN SMALL LETTER Y WITH GRAVE | Vietnamese (1) | [109] |
|  | **1EF5** | **ỵ** | LATIN SMALL LETTER Y WITH DOT BELOW | Vietnamese (1) | [109] |
|  | **1EF7** | **ỷ** | LATIN SMALL LETTER Y WITH HOOK ABOVE | Vietnamese (1) | [109] |
|  | **1EF9** | **ỹ** | LATIN SMALL LETTER Y WITH TILDE | Vietnamese (1) Guarani (1) | [109] [142] |
|  | **007A** | **z** | LATIN SMALL LETTER Z | Basic Latin | [0] |
|  | **017A** | **ź** | LATIN SMALL LETTER Z WITH ACUTE | Polish (1)Brahui (5)Sorbian (4) | [152], [252], [168], [172] |
|  | **017C** | **ż** | LATIN SMALL LETTER Z WITH DOT ABOVE | Polish (1)Maltese(1) | [152], [163] |
|  | **017E** | **ž** | LATIN SMALL LETTER Z WITH CARON | Lithuanian (1)Croatian (1)Serbian (1)Turkmen (1)Latvian (1)Slovak (1)Northern Sami(2)Chechen(2) 1925 Version | [154], [150], [151], [121], [133], [153], [108], [232] |
|  | **01EF** | **ǯ** | LATIN SMALL LETTER EZH WITH CARON | Skolt Sami (2) | [113] |
|  | **0292** | **ʒ** | LATIN SMALL LETTER EZH | Skolt Sami (2)Dagbani (Dagomba) (4) | [113], [189] |

1. *Script* is used here to indicate the whole writing system including basic letters, ligatures and diacritics. See also RFC 6365 and ISO 15924. [↑](#footnote-ref-1)
2. However, several orthographies on the basis of different scripts are frequently used simultaneously, both historically and contemporarily. [↑](#footnote-ref-2)
3. Latin script is also known as Roman script in academic literature. [↑](#footnote-ref-3)