

LATEX SUPPORT FOR EREWHON

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Erewhon is a font package based largely on Andrey V. Panov's *Heuristica*, but with so many changes that it is no longer strictly compatible with that package, and is offered instead as an enhanced alternative. (*Heuristica* extended the *Utopia* font family made available by the T_EX Users' Group, adding many accented glyphs, Cyrillic glyphs, ligatures, superior and oldstyle fixed-width figures in all styles, and Small Caps in Regular style only. It is widely distributed as a free font collection in OpenType, TrueType and Type1 formats.) *Erewhon* is provided in OpenType and Type1 formats with L^AT_EX support files in encodings T1, TS1, LY1, OT2, T2A, T2B and T2C. Changes made in the transition from *Heuristica* to *Erewhon* include:

- *slanted* as well as *Italic* shapes;
- SMALL CAPS in **BOLD** as well as REGULAR upright shapes, with *ITALIC* and *SLANTED SMALL CAPS* shapes from the slanted variants;
- expanded lookup tables in the .otf files for users of XeLaTeX and LuaLaTeX;
- a number of f-ligatures have been modified, and a T_h ligature added;
- proportionally spaced figures (lining and oldstyle), adding to the existing tabold-style figures;
- full collections of superior lowercase letters (including è as è and é as é), mainly for the benefit of languages in which those are in common use—e.g., French, Spanish;
- size reduced by 6% from *Heuristica*, which matched the old version of *Utopia*—the new size matches that of Adobe's commercial *UtopiaStd*;
- shapes of some oldstyle figures modified to have more of an oldstyle appearance;
- fraction macros based on the new numerator and denominator figures;
- the bold upright face has been made less cramped.

The `newtx` package has been modified, as of version 1.26, to offer a new option `utopia` (or, equivalently, `heuristica` or `erewhon`) that uses math italic glyphs taken from *Utopia* and oldstyle figures from *Erewhon*. Its slanted Greek alphabets are constructed from the `txfonts` slanted Greek letters by reducing their italic angle from 15.5° to 13°, matching *Utopia*'s italic angle. So, for *Erewhon* text and matching math, you can use¹:

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¹There is most likely also a way to use `MathDesign` or `fourier` with at least partial compatibility.

```
% load babel package and options before erewhon
\usepackage[p,osf,scaled=.98,space]{erewhon}
\usepackage[varqu,varl]{inconsolata} % typewriter
\usepackage[type1,scaled=.95]{cabin} % sans serif like Gill Sans
\usepackage[utopia,vvarbb]{newtxmath}
```

The effect of the options `p,osf` is to force the default figure style in *erewhon* text to be proportional oldstyle `o123456789` while using lining figures `O123456789` in math mode. If no options are specified, tabular lining figures will be used throughout.

OPTIONS AVAILABLE:

- The option `scaled` allows you to change the scale. E.g., if you want *Erewhon* to render at the same size as the original *Utopia* or *Heuristica*, use `scaled=1.064`.
- The option `proportional`, or, equivalently, `p`, specifies the use of proportional rather than the default tabular figures.
- The `space` option allows you to specify a factor by which to increase the interword spacing, which is, IMO, a bit tight.
- The option `oldstyle`, or, equivalently, `osf`, specifies oldstyle figures in text mode—math mode always uses tabular lining figures. By itself, `osf` results in tabular oldstyle figures unless you also specify the option `p`, or `proportional`.
- The option `scosf` changes the figure style to `osf` only within small caps.
- The option `sup` changes the footnote marker style to use the superior figures from *Erewhon* rather than the default superscripts based on reduced lining figures, which usually appear too light. (The `superiors` package offers further options.)

Erewhon is so austere for a text font and *Inconsolata* is so fancy for a typewriter font that you may find they blend together all too well. For more of a distinction replace the `inconsolata` line above with

```
\usepackage{zlmitt} % serified typewriter font extending cmtt
```

As *Utopia* text is a rather cramped, you might try applying a small amount of letterspacing (tracking) and increasing the interword spacing by means of the `microtype` package. As of version 1.08, this provides a number of ways to modify interword spacing by specifying one or more of the options described below. *Erewhon* word-spacing is governed by three quantities:

- `spacing` (default value `.211em`), `\fontdimen2` of the main text font.
- `stretch` (default value `1.055em`), `\fontdimen3` of the main text font.
- `shrink` (default value `.0703em`), `\fontdimen4` of the main text font.

(Note the use of em values rather than absolute values so that word spacing responds to scale changes.) You may modify these values individually or by setting a value for the option space or by specifying looser or loosest.

- Option `spacing=.24em` would change the spacing from `.211em` to `.24em`.
- Option `stretch=.14em` would change the stretch from `.1055em` to `.14em`.
- Option `shrink=.1em` would change the shrink from `.0703em` to `.1em`.
- Option `space=1.2` would multiply each word-spacing parameter by the factor 1.2. (The option space with no value would result in a factor of 1.23, leading to a spacing value of close to `.26em`. This documentation uses option space with no value specified.)
- Option `looser` would change the three parameters to `.25em`, `.125em`, `.1em` respectively.
- Option `loosest` would change the three parameters to `.28em`, `.125em`, `.13em` respectively.

MACROS:

- `\textlf` and `\texttlf` render their arguments in proportional and tabular lining figures respectively, no matter what the default figure style. E.g., `\textlf{345}` produces 345.
- `\textosf` and `\texttosf` render their arguments in proportional and tabular oldstyle figures respectively, no matter what the default figure style. For example, `\textosf{345}` produces 345.
- `\textsu` renders its argument in superior figures, no matter what the default figure style. E.g., `\textsu{345}` produces ³⁴⁵.
- `\textin` renders its argument in inferior figures, no matter what the default figure style. E.g., `\textin{345}` produces ₃₄₅.
- `\textnu` renders its argument in numerator figures, no matter what the default figure style. E.g., `\textnu{345}` produces ³⁴⁵.
- `\textde` renders its argument in denominator figures, no matter what the default figure style. E.g., `\textde{345}` produces ₃₄₅.
- `\textfrac` renders its two arguments as a vulgar fraction, using `\textnu` for the numerator and `\textde` for the denominator. E.g., `\textfrac{31}{64}` produces ³¹/₆₄.

VERY BRIEF, NONSENSICAL MATH EXAMPLE:

Let $B(X)$ be the set of blocks of Λ_X and let $b(X) := |B(X)|$ so that $\hat{\phi} = \sum_{Y \subset X} (-1)^{b(Y)} b(Y)$.

GLYPH COVERAGE EXAMPLES

Erewhon-Regular-tlf-ot2

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
|-----|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----|
| 00x | Њ ₀ | Љ ₁ | Ц ₂ | Э ₃ | І ₄ | Є ₅ | Ђ ₆ | Ћ ₇ | "0x |
| 01x | Њ ₈ | Љ ₉ | Ц ₁₀ | Э ₁₁ | і ₁₂ | є ₁₃ | ђ ₁₄ | ћ ₁₅ | "1x |
| 02x | Ю ₁₆ | Ж ₁₇ | Й ₁₈ | Ё ₁₉ | Ѹ ₂₀ | Ө ₂₁ | Š ₂₂ | Я ₂₃ | "2x |
| 03x | Ю ₂₄ | Ж ₂₅ | Й ₂₆ | ё ₂₇ | Ѹ ₂₈ | ө ₂₉ | š ₃₀ | я ₃₁ | "3x |
| 04x | “ ₃₂ | ! ₃₃ | ” ₃₄ | Ђ ₃₅ | ” ₃₆ | % ₃₇ | ’ ₃₈ | ’ ₃₉ | "4x |
| 05x | (₄₀) |) ₄₁ | * ₄₂ | Ђ ₄₃ | , ₄₄ | - ₄₅ | . ₄₆ | / ₄₇ | "5x |
| 06x | 0 ₄₈ | 1 ₄₉ | 2 ₅₀ | 3 ₅₁ | 4 ₅₂ | 5 ₅₃ | 6 ₅₄ | 7 ₅₅ | "6x |
| 07x | 8 ₅₆ | 9 ₅₇ | : ₅₈ | ; ₅₉ | « ₆₀ | 1 ₆₁ | » ₆₂ | ? ₆₃ | "7x |
| 10x | ˘ ₆₄ | А ₆₅ | Б ₆₆ | Ц ₆₇ | Д ₆₈ | Е ₆₉ | Ф ₇₀ | Г ₇₁ | "8x |
| 11x | X ₇₂ | И ₇₃ | Ј ₇₄ | К ₇₅ | Л ₇₆ | М ₇₇ | Н ₇₈ | О ₇₉ | "9x |
| 12x | П ₈₀ | Ч ₈₁ | Р ₈₂ | С ₈₃ | Т ₈₄ | У ₈₅ | В ₈₆ | Щ ₈₇ | "Ax |
| 13x | Ш ₈₈ | Б ₈₉ | З ₉₀ | [₉₁ | “ ₉₂ | ₉₃ | Б ₉₄ | Ђ ₉₅ | "Bx |
| 14x | ‘ ₉₆ | а ₉₇ | б ₉₈ | и ₉₉ | д ₁₀₀ | е ₁₀₁ | ф ₁₀₂ | г ₁₀₃ | "Cx |
| 15x | X ₁₀₄ | и ₁₀₅ | ј ₁₀₆ | к ₁₀₇ | л ₁₀₈ | м ₁₀₉ | н ₁₁₀ | о ₁₁₁ | "Dx |
| 16x | п ₁₁₂ | ч ₁₁₃ | р ₁₁₄ | с ₁₁₅ | т ₁₁₆ | у ₁₁₇ | в ₁₁₈ | щ ₁₁₉ | "Ex |
| 17x | ш ₁₂₀ | б ₁₂₁ | з ₁₂₂ | — ₁₂₃ | — ₁₂₄ | № ₁₂₅ | Б ₁₂₆ | Ђ ₁₂₇ | "Fx |
| | "8 | "9 | "A | "B | "C | "D | "E | "F | |

(This 7-bit encoding is intended for users lacking a Cyrillic keyboard. For further information, consult the documentation for the package nimbus15.)

Erewhon-Regular-tlf-t2a

| | ´0 | ´1 | ´2 | ´3 | ´4 | ´5 | ´6 | ´7 | |
|------|-------|-------|-------|-------|-------|-------|--------|--------|-----|
| ´00x | ` 0 | ´ 1 | ^ 2 | ˘ 3 | ¨ 4 | ” 5 | ° 6 | ˘ 7 | ”0x |
| ´01x | ˘ 8 | ˘ 9 | ˙ 10 | , 11 | ˘ 12 | I 13 | fb 14 | fh 15 | ”1x |
| ´02x | “ 16 | ” 17 | fj 18 | fk 19 | ˘ 20 | – 21 | — 22 | Th 23 | ”2x |
| ´03x | 24 | 1 25 | J 26 | ff 27 | fi 28 | fl 29 | ffi 30 | ffl 31 | ”3x |
| ´04x | ˘ 32 | ! 33 | " 34 | # 35 | \$ 36 | % 37 | & 38 | ' 39 | ”4x |
| ´05x | (40 |) 41 | * 42 | + 43 | , 44 | - 45 | . 46 | / 47 | ”5x |
| ´06x | 0 48 | 1 49 | 2 50 | 3 51 | 4 52 | 5 53 | 6 54 | 7 55 | ”6x |
| ´07x | 8 56 | 9 57 | : 58 | ; 59 | < 60 | = 61 | > 62 | ? 63 | ”7x |
| ´10x | @ 64 | A 65 | B 66 | C 67 | D 68 | E 69 | F 70 | G 71 | ”8x |
| ´11x | H 72 | I 73 | J 74 | K 75 | L 76 | M 77 | N 78 | O 79 | ”9x |
| ´12x | P 80 | Q 81 | R 82 | S 83 | T 84 | U 85 | V 86 | W 87 | ”Ax |
| ´13x | X 88 | Y 89 | Z 90 | [91 | \ 92 |] 93 | ^ 94 | _ 95 | ”Bx |
| ´14x | ' 96 | a 97 | b 98 | c 99 | d 100 | e 101 | f 102 | g 103 | ”Cx |
| ´15x | h 104 | i 105 | j 106 | k 107 | l 108 | m 109 | n 110 | o 111 | ”Dx |
| ´16x | p 112 | q 113 | r 114 | s 115 | t 116 | u 117 | v 118 | w 119 | ”Ex |
| ´17x | x 120 | y 121 | Z 122 | { 123 | 124 | } 125 | ~ 126 | - 127 | ”Fx |
| ´20x | Г 128 | Ф 129 | Ђ 130 | Ђ 131 | ђ 132 | Ж 133 | Љ 134 | Љ 135 | ”Gx |
| ´21x | Ї 136 | Ќ 137 | Ќ 138 | Ќ 139 | Æ 140 | Ѓ 141 | Ѓ 142 | Ѓ 143 | ”Hx |
| ´22x | Θ 144 | Ç 145 | Ÿ 146 | Υ 147 | Υ 148 | Χ 149 | Ц 150 | Ц 151 | ”Ix |
| ´23x | Ч 152 | Є 153 | Ә 154 | Ӧ 155 | Ӑ 156 | № 157 | Ɑ 158 | § 159 | ”Jx |
| ´24x | Г 160 | Ф 161 | ђ 162 | ђ 163 | ђ 164 | Ж 165 | Љ 166 | Љ 167 | ”Kx |
| ´25x | İ 168 | Қ 169 | Ҁ 170 | Ҁ 171 | æ 172 | Ҁ 173 | Ҁ 174 | Ҁ 175 | ”Lx |
| ´26x | ø 176 | ç 177 | ÿ 178 | Υ 179 | Υ 180 | Χ 181 | Ц 182 | Ц 183 | ”Mx |
| ´27x | ч 184 | є 185 | ә 186 | ӧ 187 | ӑ 188 | „ 189 | « 190 | » 191 | ”Nx |
| ´30x | A 192 | B 193 | B 194 | Г 195 | Д 196 | Е 197 | Ж 198 | З 199 | ”Ox |
| ´31x | И 200 | Й 201 | К 202 | Л 203 | М 204 | Н 205 | О 206 | П 207 | ”Px |
| ´32x | P 208 | C 209 | T 210 | У 211 | Ф 212 | X 213 | Ц 214 | Ч 215 | ”Qx |
| ´33x | Ш 216 | Щ 217 | Ъ 218 | Ы 219 | Ь 220 | Э 221 | Ю 222 | Я 223 | ”Rx |
| ´34x | a 224 | b 225 | B 226 | Г 227 | Д 228 | e 229 | Ж 230 | З 231 | ”Sx |
| ´35x | и 232 | й 233 | к 234 | л 235 | м 236 | н 237 | о 238 | п 239 | ”Tx |
| ´36x | p 240 | c 241 | T 242 | у 243 | ф 244 | X 245 | ц 246 | ч 247 | ”Ux |
| ´37x | ш 248 | щ 249 | ъ 250 | ы 251 | ь 252 | э 253 | ю 254 | я 255 | ”Vx |
| | "8 | "9 | "A | "B | "C | "D | "E | "F | |

Erewhon-Regular-tlf-t2b

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
|-----|-------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-----|
| 00x | ` ₀ | ´ ₁ | ˆ ₂ | ˜ ₃ | ¨ ₄ | ” ₅ | ° ₆ | ˇ ₇ | ”0x |
| 01x | ˘ ₈ | ˉ ₉ | ˙ ₁₀ | ˚ ₁₁ | ˛ ₁₂ | I ₁₃ | fb ₁₄ | fh ₁₅ | ”1x |
| 02x | “ ₁₆ | ” ₁₇ | fj ₁₈ | fk ₁₉ | ” ₂₀ | — ₂₁ | — ₂₂ | Ih ₂₃ | ”1x |
| 03x | ₂₄ | l ₂₅ | J ₂₆ | ff ₂₇ | fi ₂₈ | fl ₂₉ | ffi ₃₀ | ffl ₃₁ | ”2x |
| 04x | ˘ ₃₂ | ! ₃₃ | " ₃₄ | # ₃₅ | \$ ₃₆ | % ₃₇ | & ₃₈ | ' ₃₉ | ”2x |
| 05x | (₄₀) |) ₄₁ | * ₄₂ | + ₄₃ | , ₄₄ | - ₄₅ | · ₄₆ | / ₄₇ | ”3x |
| 06x | 0 ₄₈ | l ₄₉ | 2 ₅₀ | 3 ₅₁ | 4 ₅₂ | 5 ₅₃ | 6 ₅₄ | 7 ₅₅ | ”3x |
| 07x | 8 ₅₆ | 9 ₅₇ | : ₅₈ | ; ₅₉ | < ₆₀ | = ₆₁ | > ₆₂ | ? ₆₃ | ”4x |
| 10x | @ ₆₄ | A ₆₅ | B ₆₆ | C ₆₇ | D ₆₈ | E ₆₉ | F ₇₀ | G ₇₁ | ”4x |
| 11x | H ₇₂ | I ₇₃ | J ₇₄ | K ₇₅ | L ₇₆ | M ₇₇ | N ₇₈ | O ₇₉ | ”5x |
| 12x | P ₈₀ | Q ₈₁ | R ₈₂ | S ₈₃ | T ₈₄ | U ₈₅ | V ₈₆ | W ₈₇ | ”5x |
| 13x | X ₈₈ | Y ₈₉ | Z ₉₀ | [₉₁ | \ ₉₂ |] ₉₃ | ^ ₉₄ | _ ₉₅ | ”6x |
| 14x | ' ₉₆ | a ₉₇ | b ₉₈ | c ₉₉ | d ₁₀₀ | e ₁₀₁ | f ₁₀₂ | g ₁₀₃ | ”6x |
| 15x | h ₁₀₄ | i ₁₀₅ | j ₁₀₆ | k ₁₀₇ | l ₁₀₈ | m ₁₀₉ | n ₁₁₀ | o ₁₁₁ | ”7x |
| 16x | p ₁₁₂ | q ₁₁₃ | r ₁₁₄ | s ₁₁₅ | t ₁₁₆ | u ₁₁₇ | v ₁₁₈ | w ₁₁₉ | ”7x |
| 17x | X ₁₂₀ | y ₁₂₁ | Z ₁₂₂ | { ₁₂₃ | ₁₂₄ | } ₁₂₅ | ~ ₁₂₆ | - ₁₂₇ | ”8x |
| 20x | ₁₂₈ | F ₁₂₉ | ₁₃₀ | Ђ ₁₃₁ | h ₁₃₂ | Ж ₁₃₃ | ₁₃₄ | З ₁₃₅ | ”8x |
| 21x | Љ ₁₃₆ | Ќ ₁₃₇ | ₁₃₈ | Ѓ ₁₃₉ | ₁₄₀ | Ѕ ₁₄₁ | Ї ₁₄₂ | Ј ₁₄₃ | ”9x |
| 22x | Ѡ ₁₄₄ | ₁₄₅ | Ѣ ₁₄₆ | Y ₁₄₇ | ₁₄₈ | X ₁₄₉ | ₁₅₀ | ₁₅₁ | ”9x |
| 23x | Ч ₁₅₂ | Ў ₁₅₃ | Ѧ ₁₅₄ | ₁₅₅ | Ё ₁₅₆ | № ₁₅₇ | ¤ ₁₅₈ | § ₁₅₉ | ”Ax |
| 24x | ₁₆₀ | F ₁₆₁ | ₁₆₂ | Ђ ₁₆₃ | h ₁₆₄ | Ж ₁₆₅ | ₁₆₆ | З ₁₆₇ | ”Ax |
| 25x | Љ ₁₆₈ | Ќ ₁₆₉ | ₁₇₀ | Ѓ ₁₇₁ | ₁₇₂ | Ѕ ₁₇₃ | Ї ₁₇₄ | Ј ₁₇₅ | ”Bx |
| 26x | Ѡ ₁₇₆ | ₁₇₇ | Ѣ ₁₇₈ | Y ₁₇₉ | ₁₈₀ | X ₁₈₁ | ₁₈₂ | ₁₈₃ | ”Bx |
| 27x | ч ₁₈₄ | њ ₁₈₅ | ѧ ₁₈₆ | ₁₈₇ | ё ₁₈₈ | „ ₁₈₉ | « ₁₉₀ | » ₁₉₁ | ”Cx |
| 30x | A ₁₉₂ | B ₁₉₃ | B ₁₉₄ | Г ₁₉₅ | Д ₁₉₆ | E ₁₉₇ | Ж ₁₉₈ | З ₁₉₉ | ”Cx |
| 31x | И ₂₀₀ | Й ₂₀₁ | К ₂₀₂ | Л ₂₀₃ | М ₂₀₄ | Н ₂₀₅ | О ₂₀₆ | П ₂₀₇ | ”Dx |
| 32x | P ₂₀₈ | C ₂₀₉ | T ₂₁₀ | У ₂₁₁ | Ф ₂₁₂ | X ₂₁₃ | Ц ₂₁₄ | Ч ₂₁₅ | ”Dx |
| 33x | Ш ₂₁₆ | Щ ₂₁₇ | Ъ ₂₁₈ | Ы ₂₁₉ | Ь ₂₂₀ | Э ₂₂₁ | Ю ₂₂₂ | Я ₂₂₃ | ”Ex |
| 34x | a ₂₂₄ | б ₂₂₅ | B ₂₂₆ | Г ₂₂₇ | Д ₂₂₈ | e ₂₂₉ | Ж ₂₃₀ | З ₂₃₁ | ”Ex |
| 35x | и ₂₃₂ | й ₂₃₃ | К ₂₃₄ | Л ₂₃₅ | М ₂₃₆ | Н ₂₃₇ | О ₂₃₈ | П ₂₃₉ | ”Fx |
| 36x | p ₂₄₀ | C ₂₄₁ | T ₂₄₂ | У ₂₄₃ | Ф ₂₄₄ | X ₂₄₅ | Ц ₂₄₆ | Ч ₂₄₇ | ”Fx |
| 37x | ш ₂₄₈ | щ ₂₄₉ | ъ ₂₅₀ | ы ₂₅₁ | ь ₂₅₂ | э ₂₅₃ | ю ₂₅₄ | я ₂₅₅ | ”Fx |
| | "8 | "9 | "A | "B | "C | "D | "E | "F | |

Erewhon-Regular-tlf-t2c

| | ´0 | ´1 | ´2 | ´3 | ´4 | ´5 | ´6 | ´7 | |
|------|-------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-----|
| ´00x | ` ₀ | ´ ₁ | ^ ₂ | ˘ ₃ | ¨ ₄ | " ₅ | ° ₆ | ˇ ₇ | "0x |
| ´01x | ˘ ₈ | ˘ ₉ | ˙ ₁₀ | , ₁₁ | ˘ ₁₂ | I ₁₃ | fb ₁₄ | fh ₁₅ | "1x |
| ´02x | " ₁₆ | " ₁₇ | fj ₁₈ | fk ₁₉ | ˘ ₂₀ | — ₂₁ | — ₂₂ | Ih ₂₃ | "2x |
| ´03x | ₂₄ | l ₂₅ | J ₂₆ | ff ₂₇ | fi ₂₈ | fl ₂₉ | ffi ₃₀ | ffl ₃₁ | "3x |
| ´04x | ˘ ₃₂ | ! ₃₃ | " ₃₄ | # ₃₅ | \$ ₃₆ | % ₃₇ | & ₃₈ | ' ₃₉ | "4x |
| ´05x | (₄₀) |) ₄₁ | * ₄₂ | + ₄₃ | , ₄₄ | - ₄₅ | · ₄₆ | / ₄₇ | "5x |
| ´06x | 0 ₄₈ | l ₄₉ | 2 ₅₀ | 3 ₅₁ | 4 ₅₂ | 5 ₅₃ | 6 ₅₄ | 7 ₅₅ | "6x |
| ´07x | 8 ₅₆ | 9 ₅₇ | : ₅₈ | ; ₅₉ | < ₆₀ | = ₆₁ | > ₆₂ | ? ₆₃ | "7x |
| ´10x | @ ₆₄ | A ₆₅ | B ₆₆ | C ₆₇ | D ₆₈ | E ₆₉ | F ₇₀ | G ₇₁ | "8x |
| ´11x | H ₇₂ | I ₇₃ | J ₇₄ | K ₇₅ | L ₇₆ | M ₇₇ | N ₇₈ | O ₇₉ | "9x |
| ´12x | P ₈₀ | Q ₈₁ | R ₈₂ | S ₈₃ | T ₈₄ | U ₈₅ | V ₈₆ | W ₈₇ | "Ax |
| ´13x | X ₈₈ | Y ₈₉ | Z ₉₀ | [₉₁ | \ ₉₂ |] ₉₃ | ^ ₉₄ | _ ₉₅ | "Bx |
| ´14x | ' ₉₆ | a ₉₇ | b ₉₈ | c ₉₉ | d ₁₀₀ | e ₁₀₁ | f ₁₀₂ | g ₁₀₃ | "Cx |
| ´15x | h ₁₀₄ | i ₁₀₅ | j ₁₀₆ | k ₁₀₇ | l ₁₀₈ | m ₁₀₉ | n ₁₁₀ | o ₁₁₁ | "Dx |
| ´16x | p ₁₁₂ | q ₁₁₃ | r ₁₁₄ | s ₁₁₅ | t ₁₁₆ | u ₁₁₇ | v ₁₁₈ | w ₁₁₉ | "Ex |
| ´17x | x ₁₂₀ | y ₁₂₁ | Z ₁₂₂ | { ₁₂₃ | ₁₂₄ | } ₁₂₅ | ~ ₁₂₆ | - ₁₂₇ | "Fx |
| ´20x | ₁₂₈ | Ц ₁₂₉ | Т ₁₃₀ | Ђ ₁₃₁ | h ₁₃₂ | ₁₃₃ | ₁₃₄ | З ₁₃₅ | "Gx |
| ´21x | ₁₃₆ | К ₁₃₇ | ₁₃₈ | К ₁₃₉ | ₁₄₀ | Н ₁₄₁ | ₁₄₂ | Н ₁₄₃ | "Hx |
| ´22x | Ө ₁₄₄ | е ₁₄₅ | е ₁₄₆ | ₁₄₇ | ₁₄₈ | Х ₁₄₉ | Ц ₁₅₀ | Ө ₁₅₁ | "Ix |
| ´23x | Ч ₁₅₂ | ₁₅₃ | Ә ₁₅₄ | ₁₅₅ | Ё ₁₅₆ | № ₁₅₇ | □ ₁₅₈ | § ₁₅₉ | "Jx |
| ´24x | ₁₆₀ | Ц ₁₆₁ | Т ₁₆₂ | Ђ ₁₆₃ | h ₁₆₄ | ₁₆₅ | ₁₆₆ | З ₁₆₇ | "Kx |
| ´25x | ₁₆₈ | К ₁₆₉ | ₁₇₀ | к ₁₇₁ | ₁₇₂ | н ₁₇₃ | ₁₇₄ | н ₁₇₅ | "Lx |
| ´26x | ө ₁₇₆ | е ₁₇₇ | е ₁₇₈ | ₁₇₉ | ₁₈₀ | х ₁₈₁ | ц ₁₈₂ | ө ₁₈₃ | "Mx |
| ´27x | ч ₁₈₄ | ₁₈₅ | ә ₁₈₆ | ₁₈₇ | ё ₁₈₈ | „ ₁₈₉ | « ₁₉₀ | » ₁₉₁ | "Nx |
| ´30x | A ₁₉₂ | Б ₁₉₃ | В ₁₉₄ | Г ₁₉₅ | Д ₁₉₆ | Е ₁₉₇ | Ж ₁₉₈ | З ₁₉₉ | "Ox |
| ´31x | И ₂₀₀ | Й ₂₀₁ | К ₂₀₂ | Л ₂₀₃ | М ₂₀₄ | Н ₂₀₅ | О ₂₀₆ | П ₂₀₇ | "Px |
| ´32x | Р ₂₀₈ | С ₂₀₉ | Т ₂₁₀ | У ₂₁₁ | Ф ₂₁₂ | Х ₂₁₃ | Ц ₂₁₄ | Ч ₂₁₅ | "Qx |
| ´33x | Ш ₂₁₆ | Щ ₂₁₇ | Ъ ₂₁₈ | Ы ₂₁₉ | Ь ₂₂₀ | Э ₂₂₁ | Ю ₂₂₂ | Я ₂₂₃ | "Rx |
| ´34x | a ₂₂₄ | б ₂₂₅ | в ₂₂₆ | г ₂₂₇ | д ₂₂₈ | е ₂₂₉ | ж ₂₃₀ | з ₂₃₁ | "Sx |
| ´35x | и ₂₃₂ | й ₂₃₃ | к ₂₃₄ | л ₂₃₅ | м ₂₃₆ | н ₂₃₇ | о ₂₃₈ | п ₂₃₉ | "Tx |
| ´36x | p ₂₄₀ | c ₂₄₁ | t ₂₄₂ | y ₂₄₃ | ф ₂₄₄ | x ₂₄₅ | ц ₂₄₆ | ч ₂₄₇ | "Ux |
| ´37x | ш ₂₄₈ | щ ₂₄₉ | ъ ₂₅₀ | ы ₂₅₁ | ь ₂₅₂ | э ₂₅₃ | ю ₂₅₄ | я ₂₅₅ | "Vx |
| | "8 | "9 | "A | "B | "C | "D | "E | "F | |