## NAME

koi8-u − Ukrainian Net Character Set encoded in octal, decimal, and hexadecimal

## DESCRIPTION

KOI8-U (KOI8 Ukrainian, described in RFC 2310) is the de-facto standard character set for encoding Ukrainian texts. KOI8-U is compatible with KOI8-R (RFC 1489) for all Russian letters, and extends KOI8-R with four Ukrainian letters (in both upper and lower case) in locations that are compliant with ISO-IR-111.

### KOI8-U Characters

The following table displays the characters in KOI8-U, which are printable and unlisted in the **ascii**(7) manual page. The fourth column will only show the proper glyphs in an environment configured for koi8-u.

| Oct | Dec | Hex | Char | Description |
|-----|-----|-----|------|-------------|
| 200 | 128 | 80 | ‚ | BOX DRAWINGS LIGHT HORIZONTAL |
| 201 | 129 | 81 | « | BOX DRAWINGS LIGHT VERTICAL |
| 202 | 130 | 82 | » | BOX DRAWINGS LIGHT DOWN AND RIGHT |
| 203 | 131 | 83 | • | BOX DRAWINGS LIGHT DOWN AND LEFT |
| 204 | 132 | 84 | ƒ | BOX DRAWINGS LIGHT UP AND RIGHT |
| 205 | 133 | 85 | ⁄ | BOX DRAWINGS LIGHT UP AND LEFT |
| 206 | 134 | 86 | ‰ | BOX DRAWINGS LIGHT VERTICAL AND RIGHT |
| 207 | 135 | 87 | † | BOX DRAWINGS LIGHT VERTICAL AND LEFT |
| 210 | 136 | 88 | ‡ | BOX DRAWINGS LIGHT DOWN AND HORIZONTAL |
| 211 | 137 | 89 | − | BOX DRAWINGS LIGHT UP AND HORIZONTAL |
| 212 | 138 | 8a | — | BOX DRAWINGS LIGHT VERTICAL AND HORIZONTAL |
| 213 | 139 | 8b | | UPPER HALF BLOCK |
| 214 | 140 | 8c | fi | LOWER HALF BLOCK |
| 215 | 141 | 8d | fl | FULL BLOCK |
| 216 | 142 | 8e | | LEFT HALF BLOCK |
| 217 | 143 | 8f | | RIGHT HALF BLOCK |
| 220 | 144 | 90 | ı | LIGHT SHADE |
| 221 | 145 | 91 | | MEDIUM SHADE |
| 222 | 146 | 92 | ` | DARK SHADE |
| 223 | 147 | 93 | ˝ | TOP HALF INTEGRAL |
| 224 | 148 | 94 | ˙ | BLACK SQUARE |
| 225 | 149 | 95 | ˘ | BULLET OPERATOR |
| 226 | 150 | 96 | ˇ | SQUARE ROOT |
| 227 | 151 | 97 | ° | ALMOST EQUAL TO |
| 230 | 152 | 98 | ˛ | LESS-THAN OR EQUAL TO |
| 231 | 153 | 99 | " | GREATER-THAN OR EQUAL TO |
| 232 | 154 | 9a | " | NO-BREAK SPACE |
| 233 | 155 | 9b | œ | BOTTOM HALF INTEGRAL |
| 234 | 156 | 9c | ł | DEGREE SIGN |
| 235 | 157 | 9d | „ | SUPERSCRIPT TWO |
| 236 | 158 | 9e | Œ | MIDDLE DOT |
| 237 | 159 | 9f | Ł | DIVISION SIGN |
| 240 | 160 | a0 | | BOX DRAWINGS DOUBLE HORIZONTAL |
| 241 | 161 | a1 | ¡ | BOX DRAWINGS DOUBLE VERTICAL |
| 242 | 162 | a2 | ¢ | BOX DRAWINGS DOWN SINGLE AND RIGHT DOUBLE |
| 243 | 163 | a3 | £ | CYRILLIC SMALL LETTER IO |
| 244 | 164 | a4 | ¤ | CYRILLIC SMALL LETTER UKRAINIAN IE |
| 245 | 165 | a5 | ¥ | BOX DRAWINGS DOUBLE DOWN AND RIGHT |
| 246 | 166 | a6 | ¦ | CYRILLIC SMALL LETTER BYELORUSSIAN-UKRAINIAN I |
| 247 | 167 | a7 | § | CYRILLIC SMALL LETTER YI (Ukrainian) |

| 250 | 168 | a8 | ¨ | BOX DRAWINGS DOUBLE DOWN AND LEFT |
| 251 | 169 | a9 | © | BOX DRAWINGS UP SINGLE AND RIGHT DOUBLE |
| 252 | 170 | aa | ª | BOX DRAWINGS UP DOUBLE AND RIGHT SINGLE |
| 253 | 171 | ab | ‹ | BOX DRAWINGS DOUBLE UP AND RIGHT |
| 254 | 172 | ac | ¬ | BOX DRAWINGS UP SINGLE AND LEFT DOUBLE |
| 255 | 173 | ad | − | CYRILLIC SMALL LETTER GHE WITH UPTURN |
| 256 | 174 | ae | ® | BOX DRAWINGS  DOUBLE UP AND LEFT |
| 257 | 175 | af | ¯ | BOX DRAWINGS VERTICAL SINGLE AND RIGHT DOUBLE |
| 260 | 176 | b0 | ° | BOX DRAWINGS VERTICAL DOUBLE AND RIGHT SINGLE |
| 261 | 177 | b1 | ± | BOX DRAWINGS DOUBLE VERTICAL AND RIGHT |
| 262 | 178 | b2 | ² | BOX DRAWINGS VERTICAL SINGLE AND LEFT DOUBLE |
| 263 | 179 | b3 | ³ | CYRILLIC CAPITAL LETTER IO |
| 264 | 180 | b4 | ´ | CYRILLIC CAPITAL LETTER UKRAINIAN IE |
| 265 | 181 | b5 | µ | BOX DRAWINGS DOUBLE VERTICAL AND LEFT |
| 266 | 182 | b6 | ¶ | CYRILLIC CAPITAL LETTER BYELORUSSIAN-UKRAINIAN I |
| 267 | 183 | b7 | · | CYRILLIC CAPITAL LETTER YI (Ukrainian) |
| 270 | 184 | b8 | ¸ | BOX DRAWINGS DOUBLE DOWN AND HORIZONTAL |
| 271 | 185 | b9 | ¹ | BOX DRAWINGS UP SINGLE AND HORIZONTAL DOUBLE |
| 272 | 186 | ba | º | BOX DRAWINGS UP DOUBLE AND HORIZONTAL SINGLE |
| 273 | 187 | bb | › | BOX DRAWINGS DOUBLE UP AND HORIZONTAL |
| 274 | 188 | bc | ¼ | BOX DRAWINGS VERTICAL SINGLE AND HORIZONTAL DOUBLE |
| 275 | 189 | bd | ½ | CYRILLIC CAPITAL LETTER GHE WITH UPTURN |
| 276 | 190 | be | ¾ | BOX DRAWINGS  DOUBLE VERTICAL AND HORIZONTAL |
| 277 | 191 | bf | ¿ | COPYRIGHT SIGN |
| 300 | 192 | c0 | À | CYRILLIC SMALL LETTER YU |
| 301 | 193 | c1 | Á | CYRILLIC SMALL LETTER A |
| 302 | 194 | c2 | Â | CYRILLIC SMALL LETTER BE |
| 303 | 195 | c3 | Ã | CYRILLIC SMALL LETTER TSE |
| 304 | 196 | c4 | Ä | CYRILLIC SMALL LETTER DE |
| 305 | 197 | c5 | Å | CYRILLIC SMALL LETTER IE |
| 306 | 198 | c6 | Æ | CYRILLIC SMALL LETTER EF |
| 307 | 199 | c7 | Ç | CYRILLIC SMALL LETTER GHE |
| 310 | 200 | c8 | È | CYRILLIC SMALL LETTER HA |
| 311 | 201 | c9 | É | CYRILLIC SMALL LETTER I |
| 312 | 202 | ca | Ê | CYRILLIC SMALL LETTER SHORT I |
| 313 | 203 | cb | Ë | CYRILLIC SMALL LETTER KA |
| 314 | 204 | cc | Ì | CYRILLIC SMALL LETTER EL |
| 315 | 205 | cd | Í | CYRILLIC SMALL LETTER EM |
| 316 | 206 | ce | Î | CYRILLIC SMALL LETTER EN |
| 317 | 207 | cf | Ï | CYRILLIC SMALL LETTER O |
| 320 | 208 | d0 | Ð | CYRILLIC SMALL LETTER PE |
| 321 | 209 | d1 | Ñ | CYRILLIC SMALL LETTER YA |
| 322 | 210 | d2 | Ò | CYRILLIC SMALL LETTER ER |
| 323 | 211 | d3 | Ó | CYRILLIC SMALL LETTER ES |
| 324 | 212 | d4 | Ô | CYRILLIC SMALL LETTER TE |
| 325 | 213 | d5 | Õ | CYRILLIC SMALL LETTER U |
| 326 | 214 | d6 | Ö | CYRILLIC SMALL LETTER ZHE |
| 327 | 215 | d7 | × | CYRILLIC SMALL LETTER VE |
| 330 | 216 | d8 | Ø | CYRILLIC SMALL LETTER SOFT SIGN |
| 331 | 217 | d9 | Ù | CYRILLIC SMALL LETTER YERU |
| 332 | 218 | da | Ú | CYRILLIC SMALL LETTER ZE |
| 333 | 219 | db | Û | CYRILLIC SMALL LETTER SHA |
| 334 | 219 | dc | Ü | CYRILLIC SMALL LETTER E |

| 335 | 220 | dd | Ý | CYRILLIC SMALL LETTER SHCHA |
| 336 | 221 | de | Þ | CYRILLIC SMALL LETTER CHE |
| 337 | 222 | df | ß | CYRILLIC SMALL LETTER HARD SIGN |
| 340 | 223 | e0 | à | CYRILLIC CAPITAL LETTER YU |
| 341 | 224 | e1 | á | CYRILLIC CAPITAL LETTER A |
| 342 | 225 | e2 | â | CYRILLIC CAPITAL LETTER BE |
| 343 | 226 | e3 | ã | CYRILLIC CAPITAL LETTER TSE |
| 344 | 227 | e4 | ä | CYRILLIC CAPITAL LETTER DE |
| 345 | 228 | e5 | å | CYRILLIC CAPITAL LETTER IE |
| 346 | 229 | e6 | æ | CYRILLIC CAPITAL LETTER EF |
| 347 | 230 | e7 | ç | CYRILLIC CAPITAL LETTER GHE |
| 350 | 231 | e8 | è | CYRILLIC CAPITAL LETTER HA |
| 351 | 232 | e9 | é | CYRILLIC CAPITAL LETTER I |
| 352 | 233 | ea | ê | CYRILLIC CAPITAL LETTER SHORT I |
| 353 | 234 | eb | ë | CYRILLIC CAPITAL LETTER KA |
| 354 | 235 | ec | ì | CYRILLIC CAPITAL LETTER EL |
| 355 | 236 | ed | í | CYRILLIC CAPITAL LETTER EM |
| 356 | 237 | ee | î | CYRILLIC CAPITAL LETTER EN |
| 357 | 238 | ef | ï | CYRILLIC CAPITAL LETTER O |
| 360 | 239 | f0 | ð | CYRILLIC CAPITAL LETTER PE |
| 361 | 240 | f1 | ñ | CYRILLIC CAPITAL LETTER YA |
| 362 | 241 | f2 | ò | CYRILLIC CAPITAL LETTER ER |
| 363 | 242 | f3 | ó | CYRILLIC CAPITAL LETTER ES |
| 364 | 243 | f4 | ô | CYRILLIC CAPITAL LETTER TE |
| 365 | 244 | f5 | õ | CYRILLIC CAPITAL LETTER U |
| 366 | 245 | f6 | ö | CYRILLIC CAPITAL LETTER ZHE |
| 367 | 246 | f7 | ÷ | CYRILLIC CAPITAL LETTER VE |
| 370 | 247 | f8 | ø | CYRILLIC CAPITAL LETTER SOFT SIGN |
| 371 | 248 | f9 | ù | CYRILLIC CAPITAL LETTER YERU |
| 372 | 249 | fa | ú | CYRILLIC CAPITAL LETTER ZE |
| 373 | 250 | fb | û | CYRILLIC CAPITAL LETTER SHA |
| 374 | 251 | fc | ü | CYRILLIC CAPITAL LETTER E |
| 375 | 252 | fd | ý | CYRILLIC CAPITAL LETTER SHCHA |
| 376 | 253 | fe | þ | CYRILLIC CAPITAL LETTER CHE |
| 377 | 254 | ff | ÿ | CYRILLIC CAPITAL LETTER HARD SIGN |

**NOTES**

The differences from KOI8-R are in the hex positions a4, a6, a7, ad, b4, b6, b7, and bd.

**SEE ALSO**

**ascii**(7), **koi8-r**(7)

**COLOPHON**

This page is part of release 3.22 of the Linux *man-pages* project. A description of the project, and information about reporting bugs, can be found at http://www.kernel.org/doc/man-pages/.