

Combining Diacritics

Note: From mPDF v6.0, support for OpenType layout (OTL) makes this section redundant if you use the OTL capability available in most fonts.

In Unicode, letters with diacritics (e.g. ÁáÄäÅä) are usually represented as a single character e.g. Unicode U+0196 is an A Umlaut. There are 4 blocks in Unicode of diacritics or 'marks' which can be used to combine with adjacent letters: Combining Diacritical Marks (U+0300 - U+036F), Combining Diacritical Marks Supplement (U+1DC0 - U+1DFF), Combining Marks for Symbols (U+20D0 - U+20FF) and Combining Half Marks (U+FE20 - U+FE2F).

Software applications use special positioning information stored in OpenType font files to reposition the diacritic/mark depending on the context. mPDF (< v 6.0) does not support this repositioning and is dependent on the font design and original placement of the diacritic:

It is recommended to use precomposed characters whenever possible with mPDF. If not you could use this quick patch to automatically combine diacritics:

In `mpdf.php` file, function `WriteHTML()`

Just after the lines:

```
$e = strcode2utf($e);
$e = $this->lesser_entity_decode($e);
```

Add this line:

```
$e = strtr($e, $this->compat);
```

Then add the following in your script (use `$this->compat` if you use it in the `config.php` file) after declaring the class `$mpdf`:

```
$mpdf->compat = array ( "A\xcc\x80"=>"\xc3\x80", "A\xcc\x81"=>"\xc3\x81", "A\xcc\x82"=>"\xc3\x82",
"A\xcc\x83"=>"\xc3\x83", "A\xcc\x88"=>"\xc3\x84", "A\xcc\x8a"=>"\xc3\x85", "C\xcc\xa7"=>"\xc3\x87",
"E\xcc\x80"=>"\xc3\x88", "E\xcc\x81"=>"\xc3\x89", "E\xcc\x82"=>"\xc3\x8a", "E\xcc\x88"=>"\xc3\x8b",
"I\xcc\x80"=>"\xc3\x8c", "I\xcc\x81"=>"\xc3\x8d", "I\xcc\x82"=>"\xc3\x8e", "I\xcc\x88"=>"\xc3\x8f",
"N\xcc\x83"=>"\xc3\x91", "O\xcc\x80"=>"\xc3\x92", "O\xcc\x81"=>"\xc3\x93", "O\xcc\x82"=>"\xc3\x94",
"O\xcc\x83"=>"\xc3\x95", "O\xcc\x88"=>"\xc3\x96", "U\xcc\x80"=>"\xc3\x99", "U\xcc\x81"=>"\xc3\x9a",
"U\xcc\x82"=>"\xc3\x9b", "U\xcc\x88"=>"\xc3\x9c", "Y\xcc\x81"=>"\xc3\x9d", "a\xcc\x80"=>"\xc3\xa0",
"a\xcc\x81"=>"\xc3\xa1", "a\xcc\x82"=>"\xc3\xa2", "a\xcc\x83"=>"\xc3\xa3", "a\xcc\x88"=>"\xc3\xa4",
"a\xcc\x8a"=>"\xc3\xa5", "c\xcc\xa7"=>"\xc3\xa7", "e\xcc\x80"=>"\xc3\xa8", "e\xcc\x81"=>"\xc3\xa9",
"e\xcc\x82"=>"\xc3\xaa", "e\xcc\x88"=>"\xc3xab", "i\xcc\x80"=>"\xc3\xac", "i\xcc\x81"=>"\xc3\xad",
"i\xcc\x82"=>"\xc3\xae", "i\xcc\x88"=>"\xc3\xaf", "n\xcc\x83"=>"\xc3\xb1", "o\xcc\x80"=>"\xc3\xb2",
"o\xcc\x81"=>"\xc3\xb3", "o\xcc\x82"=>"\xc3\xb4", "o\xcc\x83"=>"\xc3\xb5", "o\xcc\x88"=>"\xc3\xb6",
"u\xcc\x80"=>"\xc3\xb9", "u\xcc\x81"=>"\xc3\xba", "u\xcc\x82"=>"\xc3\xbb", "u\xcc\x88"=>"\xc3\xbc",
"y\xcc\x81"=>"\xc3\xbd", "y\xcc\x88"=>"\xc3\xbf", "A\xcc\x84"=>"\xc4\x80", "a\xcc\x84"=>"\xc4\x81",
"A\xcc\x86"=>"\xc4\x82", "a\xcc\x86"=>"\xc4\x83", "A\xcc\x8a"=>"\xc4\x84", "a\xcc\x8a"=>"\xc4\x85",
"C\xcc\x81"=>"\xc4\x86", "c\xcc\x81"=>"\xc4\x87", "C\xcc\x82"=>"\xc4\x88", "c\xcc\x82"=>"\xc4\x89",
"C\xcc\x87"=>"\xc4\x8a", "c\xcc\x87"=>"\xc4\x8b", "C\xcc\x8c"=>"\xc4\x8c", "c\xcc\x8c"=>"\xc4\x8d",
"D\xcc\x8c"=>"\xc4\x8e", "d\xcc\x8c"=>"\xc4\x8f", "E\xcc\x84"=>"\xc4\x92", "e\xcc\x84"=>"\xc4\x93",
"E\xcc\x86"=>"\xc4\x94", "e\xcc\x86"=>"\xc4\x95", "E\xcc\x87"=>"\xc4\x96", "e\xcc\x87"=>"\xc4\x97",
"E\xcc\x8a"=>"\xc4\x98", "e\xcc\x8a"=>"\xc4\x99", "E\xcc\x8c"=>"\xc4\x9a", "e\xcc\x8c"=>"\xc4\x9b",
"G\xcc\x82"=>"\xc4\x9c", "g\xcc\x82"=>"\xc4\x9d", "G\xcc\x86"=>"\xc4\x9e", "g\xcc\x86"=>"\xc4\x9f",
"G\xcc\x87"=>"\xc4\xa0", "g\xcc\x87"=>"\xc4\xa1", "G\xcc\xa7"=>"\xc4\xa2", "g\xcc\xa7"=>"\xc4\xa3",
"H\xcc\x82"=>"\xc4\xa4", "h\xcc\x82"=>"\xc4\xa5", "I\xcc\x83"=>"\xc4\xa8", "i\xcc\x83"=>"\xc4\xa9",
"I\xcc\x84"=>"\xc4\xaa", "i\xcc\x84"=>"\xc4xab", "I\xcc\x86"=>"\xc4\xac", "i\xcc\x86"=>"\xc4\xad",
"I\xcc\xa8"=>"\xc4\xae", "i\xcc\xa8"=>"\xc4\xaf", "I\xcc\x87"=>"\xc4\xb0", "J\xcc\x82"=>"\xc4\xb4",
"j\xcc\x82"=>"\xc4\xb5", "K\xcc\xa7"=>"\xc4\xb6", "k\xcc\xa7"=>"\xc4\xb7", "L\xcc\x81"=>"\xc4\xb9",
"l\xcc\x81"=>"\xc4\xba", "L\xcc\xa7"=>"\xc4\xbb", "l\xcc\xa7"=>"\xc4\xbc", "L\xcc\x8c"=>"\xc4\xbd",
"l\xcc\x8c"=>"\xc4\xbe", "N\xcc\x81"=>"\xc5\x83", "n\xcc\x81"=>"\xc5\x84", "N\xcc\xa7"=>"\xc5\x85",
"n\xcc\xa7"=>"\xc5\x86", "N\xcc\x8c"=>"\xc5\x87", "n\xcc\x8c"=>"\xc5\x88", "O\xcc\x84"=>"\xc5\x8c",
"o\xcc\x84"=>"\xc5\x8d", "O\xcc\x86"=>"\xc5\x8e", "o\xcc\x86"=>"\xc5\x8f", "O\xcc\x8b"=>"\xc5\x90",
"o\xcc\x8b"=>"\xc5\x91", "R\xcc\x81"=>"\xc5\x94", "r\xcc\x81"=>"\xc5\x95", "R\xcc\xa7"=>"\xc5\x96",
"r\xcc\xa7"=>"\xc5\x97", "R\xcc\x8c"=>"\xc5\x98", "r\xcc\x8c"=>"\xc5\x99", "S\xcc\x81"=>"\xc5\x9a",
"s\xcc\x81"=>"\xc5\x9b", "S\xcc\x82"=>"\xc5\x9c", "s\xcc\x82"=>"\xc5\x9d", "S\xcc\xa7"=>"\xc5\x9e",
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"s\xcc\xa7"=>"\xc5\x9f", "S\xcc\x8c"=>"\xc5\xa0", "s\xcc\x8c"=>"\xc5\xa1", "T\xcc\xa7"=>"\xc5\xa2", "t\xcc\xa7"=>"\xc5\xa3", "T\xcc\x8c"=>"\xc5\xa4", "t\xcc\x8c"=>"\xc5\xa5", "U\xcc\x83"=>"\xc5\xa8", "u\xcc\x83"=>"\xc5\xa9", "U\xcc\x84"=>"\xc5\xaa", "u\xcc\x84"=>"\xc5xab", "U\xcc\x86"=>"\xc5\xac", "u\xcc\x86"=>"\xc5\xad", "U\xcc\x8a"=>"\xc5\xae", "u\xcc\x8a"=>"\xc5\xaf", "U\xcc\x8b"=>"\xc5\xb0", "u\xcc\x8b"=>"\xc5\xb1", "U\xcc\xa8"=>"\xc5\xb2", "u\xcc\xa8"=>"\xc5\xb3", "W\xcc\x82"=>"\xc5\xb4", "w\xcc\x82"=>"\xc5\xb5", "Y\xcc\x82"=>"\xc5\xb6", "y\xcc\x82"=>"\xc5\xb7", "Y\xcc\x88"=>"\xc5\xb8", "Z\xcc\x81"=>"\xc5\xb9", "z\xcc\x81"=>"\xc5\xba", "Z\xcc\x87"=>"\xc5\xbb", "z\xcc\x87"=>"\xc5\xbc", "Z\xcc\x8c"=>"\xc5\xbd", "z\xcc\x8c"=>"\xc5\xbe", "O\xcc\x9b"=>"\xc6\xa0", "o\xcc\x9b"=>"\xc6\xa1", "U\xcc\x9b"=>"\xc6\xaf", "u\xcc\x9b"=>"\xc6\xb0", "A\xcc\x8c"=>"\xc7\x8d", "a\xcc\x8c"=>"\xc7\x8e", "I\xcc\x8c"=>"\xc7\x8f", "i\xcc\x8c"=>"\xc7\x90", "O\xcc\x8c"=>"\xc7\x91", "o\xcc\x8c"=>"\xc7\x92", "U\xcc\x8c"=>"\xc7\x93", "u\xcc\x8c"=>"\xc7\x94", "\xc3\x9c\xcc\x84"=>"\xc7\x95", "\xc3\xbc\xcc\x84"=>"\xc7\x96", "\xc3\x9c\xcc\x81"=>"\xc7\x97", "\xc3\xbc\xcc\x81"=>"\xc7\x98", "\xc3\x9c\xcc\x8c"=>"\xc7\x99", "\xc3\xbc\xcc\x8c"=>"\xc7\x9a", "\xc3\x9c\xcc\x8b"=>"\xc7\x9b", "\xc3\xbc\xcc\x80"=>"\xc7\x9c", "\xc3\x84\xcc\x84"=>"\xc7\x9e", "\xc3\xa4\xcc\x84"=>"\xc7\x9f", "\xc8\xa6\xcc\x84"=>"\xc7\xa0", "\xc8\xa7\xcc\x84"=>"\xc7\xa1", "\xc3\x86\xcc\x84"=>"\xc7\xa2", "\xc3\xa6\xcc\x84"=>"\xc7\xa3", "G\xcc\x8c"=>"\xc7\xa6", "g\xcc\x8c"=>"\xc7\xa7", "K\xcc\x8c"=>"\xc7\xa8", "k\xcc\x8c"=>"\xc7\xa9", "O\xcc\xa8"=>"\xc7\xaa", "o\xcc\xa8"=>"\xc7\xab", "\xc7\xaa\xcc\x84"=>"\xc7\xac", "\xc7\xab\xcc\x84"=>"\xc7\xad", "\xc6\xb7\xcc\x8c"=>"\xc7\xae", "\xc6\x92\xcc\x8c"=>"\xc7\xaf", "j\xcc\x8c"=>"\xc7\xb0", "G\xcc\x81"=>"\xc7\xb4", "g\xcc\x81"=>"\xc7\xb5", "N\xcc\x80"=>"\xc7\xb8", "n\xcc\x80"=>"\xc7\xb9", "\xc3\x85\xcc\x81"=>"\xc7\xba", "\xc3\xa5\xcc\x81"=>"\xc7\xbb", "\xc3\x86\xcc\x81"=>"\xc7\xbc", "\xc3\xa6\xcc\x81"=>"\xc7\xbd", "\xc3\x98\xcc\x81"=>"\xc7\xbe", "\xc3\xb8\xcc\x81"=>"\xc7\xbf", "A\xcc\x8f"=>"\xc8\x80", "a\xcc\x8f"=>"\xc8\x81", "A\xcc\x91"=>"\xc8\x82", "a\xcc\x91"=>"\xc8\x83", "E\xcc\x8f"=>"\xc8\x84", "e\xcc\x8f"=>"\xc8\x85", "E\xcc\x91"=>"\xc8\x86", "e\xcc\x91"=>"\xc8\x87", "I\xcc\x8f"=>"\xc8\x88", "i\xcc\x8f"=>"\xc8\x89", "I\xcc\x91"=>"\xc8\x8a", "i\xcc\x91"=>"\xc8\x8b", "O\xcc\x8f"=>"\xc8\x8c", "o\xcc\x8f"=>"\xc8\x8d", "O\xcc\x91"=>"\xc8\x8e", "o\xcc\x91"=>"\xc8\x8f", "R\xcc\x8f"=>"\xc8\x90", "r\xcc\x8f"=>"\xc8\x91", "R\xcc\x91"=>"\xc8\x92", "r\xcc\x91"=>"\xc8\x93", "U\xcc\x8f"=>"\xc8\x94", "u\xcc\x8f"=>"\xc8\x95", "U\xcc\x91"=>"\xc8\x96", "u\xcc\x91"=>"\xc8\x97", "S\xcc\xa6"=>"\xc8\x98", "s\xcc\xa6"=>"\xc8\x99", "T\xcc\xa6"=>"\xc8\x9a", "t\xcc\xa6"=>"\xc8\x9b", "H\xcc\x8c"=>"\xc8\x9e", "h\xcc\x8c"=>"\xc8\x9f", "A\xcc\x87"=>"\xc8\xa6", "a\xcc\x87"=>"\xc8\xa7", "E\xcc\xa7"=>"\xc8\xa8", "e\xcc\xa7"=>"\xc8\xa9", "\xc3\x96\xcc\x84"=>"\xc8\xaa", "\xc3\xb6\xcc\x84"=>"\xc8\xab", "\xc3\x95\xcc\x84"=>"\xc8\xac", "\xc3\xb5\xcc\x84"=>"\xc8\xad", "O\xcc\x87"=>"\xc8\xae", "o\xcc\x87"=>"\xc8\xaf", "\xc8\xae\xcc\x84"=>"\xc8\xb0", "\xc8\xaf\xcc\x84"=>"\xc8\xb1", "Y\xcc\x84"=>"\xc8\xb2", "y\xcc\x84"=>"\xc8\xb3", "\xcc\x88\xcc\x81"=>"\xcd\x84", "\xc2\xa8\xcc\x81"=>"\xce\x85", "\xce\x91\xcc\x81"=>"\xce\x86", "\xce\x95\xcc\x81"=>"\xce\x88", "\xce\x97\xcc\x81"=>"\xce\x89", "\xce\x99\xcc\x81"=>"\xce\x8a", "\xce\x9f\xcc\x81"=>"\xce\x8c", "\xce\xa5\xcc\x81"=>"\xce\x8e", "\xce\xa9\xcc\x81"=>"\xce\x8f", "\xcf\x8a\xcc\x81"=>"\xce\x90", "\xce\x99\xcc\x88"=>"\xce\xaa", "\xce\xa5\xcc\x88"=>"\xce\xab", "\xce\xb1\xcc\x81"=>"\xce\xac", "\xce\xb5\xcc\x81"=>"\xce\xad", "\xce\xb7\xcc\x81"=>"\xce\xae", "\xce\xb9\xcc\x81"=>"\xce\xaf", "\xcf\x8b\xcc\x81"=>"\xce\xb0", "\xce\xb9\xcc\x88"=>"\xcf\x8a", "\xcf\x85\xcc\x88"=>"\xcf\x8b", "\xce\xbf\xcc\x81"=>"\xcf\x8c", "\xcf\x85\xcc\x81"=>"\xcf\x8d", "\xcf\x89\xcc\x81"=>"\xcf\x8e", "\xcf\x92\xcc\x81"=>"\xcf\x93", "\xcf\x92\xcc\x88"=>"\xcf\x94", "\xd0\x95\xcc\x80"=>"\xd0\x80", "\xd0\x95\xcc\x88"=>"\xd0\x81", "\xd0\x9a\xcc\x81"=>"\xd0\x8c", "\xd0\x98\xcc\x81"=>"\xd0\x8d", "\xd0\xa3\xcc\x86"=>"\xd0\x8e", "\xd0\x98\xcc\x86"=>"\xd0\x99", "\xd0\xb8\xcc\x86"=>"\xd0\xb9", "\xd0\xb5\xcc\x80"=>"\xd1\x90", "\xd0\xb5\xcc\x88"=>"\xd1\x91", "\xd0\xb3\xcc\x81"=>"\xd1\x93", "\xd1\x96\xcc\x88"=>"\xd1\x97", "\xd0\xba\xcc\x81"=>"\xd1\x9c", "\xd0\xb8\xcc\x80"=>"\xd1\x9d", "\xd1\x83\xcc\x86"=>"\xd1\x9e", "\xd1\xb4\xcc\x8f"=>"\xd1\xb6", "\xd1\xb5\xcc\x8f"=>"\xd1\xb7", "\xd0\x96\xcc\x86"=>"\xd3\x81", "\xd0\xb6\xcc\x86"=>"\xd3\x82", "\xd0\x90\xcc\x86"=>"\xd3\x90", "\xd0\xb0\xcc\x88"=>"\xd3\x91", "\xd0\x90\xcc\x88"=>"\xd3\x92", "\xd0\xb0\xcc\x88"=>"\xd3\x93", "\xd0\x95\xcc\x86"=>"\xd3\x96", "\xd0\xb5\xcc\x86"=>"\xd3\x97", "\xd3\x98\xcc\x88"=>"\xd3\x9a", "\xd3\x99\xcc\x88"=>"\xd3\x9b", "\xd0\x96\xcc\x88"=>"\xd3\x9c", "\xd0\xb6\xcc\x88"=>"\xd3\x9d", "\xd0\x97\xcc\x88"=>"\xd3\x9e", "\xd0\xb7\xcc\x88"=>"\xd3\x9f", "\xd0\x98\xcc\x84"=>"\xd3\xa2", "\xd0\xb8\xcc\x84"=>"\xd3\xa3", "\xd0\x98\xcc\x88"=>"\xd3\xa4", "\xd0\xb8\xcc\x88"=>"\xd3\xa5", "\xd0\x9e\xcc\x88"=>"\xd3\xa6", "\xd0\xbe\xcc\x88"=>"\xd3\xa7", "\xd3\xa8\xcc\x88"=>"\xd3\xaa", "\xd3\xa9\xcc\x88"=>"\xd3\xab", "\xd0\xad\xcc\x88"=>"\xd3\xac", "\xd1\x8d\xcc\x88"=>"\xd3\xad", "\xd0\xa3\xcc\x84"=>"\xd3\xae", "\xd1\x83\xcc\x84"=>"\xd3\xaf", "\xd0\xa3\xcc\x88"=>"\xd3\xb0", "\xd1\x83\xcc\x88"=>"\xd3\xb1", "\xd0\xa3\xcc\x8b"=>"\xd3\xb2", "\xd1\x83\xcc\x8b"=>"\xd3\xb3", "\xd0\xa7\xcc\x88"=>"\xd3\xb4", "\xd1\x87\xcc\x88"=>"\xd3\xb5", "\xd0\xab\xcc\x88"=>"\xd3\xb8", "\xd1\x8b\xcc\x88"=>"\xd3\xb9", "A\xcc\xa5"=>"\xe1\xb8\x80", "a\xcc\xa5"=>"\xe1\xb8\x81", "B\xcc\x87"=>"\xe1\xb8\x82", "b\xcc\x87"=>"\xe1\xb8\x83", "B\xcc\xa3"=>"\xe1\xb8\x84", "b\xcc\xa3"=>"\xe1\xb8\x85", "B\xcc\xb1"=>"\xe1\xb8\x86", "b\xcc\xb1"=>"\xe1\xb8\x87", "\xc3\x87\xcc\x81"=>"\xe1\xb8\x88", "\xc3\xa7\xcc\x81"=>"\xe1\xb8\x89", "D\xcc\x87"=>"\xe1\xb8\x8a", "d\xcc\x87"=>"\xe1\xb8\x8b", "D\xcc\xa3"=>"\xe1\xb8\x8c", "d\xcc\xa3"=>"\xe1\xb8\x8d", "D\xcc\xb1"=>"\xe1\xb8\x8e", "d\xcc\xb1"=>"\xe1\xb8\x8f", "D\xcc\xa7"=>"\xe1\xb8\x90", "d\xcc\xa7"=>"\xe1\xb8\x91", "D\xcc\xad"=>"\xe1\xb8\x92", "d\xcc\xad"=>"\xe1\xb8\x93", "\xc4\x92\xcc\x80"=>"\xe1\xb8\x94", "\xc4\x93\xcc\x80"=>"\xe1\xb8\x95", "\xc4\x92\xcc\x81"=>"\xe1\xb8\x96", "\xc4\x93\xcc\x81"=>"\xe1\xb8\x97", "E\xcc\xad"=>"\xe1\xb8\x98", "e\xcc\xad"=>"\xe1\xb8\x99", "E\xcc\xb0"=>"\xe1\xb8\x9a", "e\xcc\xb0"=>"\xe1\xb8\x9b", "\xc8\xa8\xcc\x86"=>"\xe1\xb8\x9c", "\xc8\xa9\xcc\x86"=>"\xe1\xb8\x9d", "F\xcc\x87"=>"\xe1\xb8\x9e", "f\xcc\x87"=>"\xe1\xb8\x9f", "G\xcc\x84"=>"\xe1\xb8\xa0", "g\xcc\x84"=>"\xe1\xb8\xa1", "H\xcc\x87"=>"\xe1\xb8\xa2", "h\xcc\x87"=>"\xe1\xb8\xa3", "H\xcc\xa3"=>"\xe1\xb8\xa4", "h\xcc\xa3"=>"\xe1\xb8\xa5", "H\xcc\x88"=>"\xe1\xb8\xa6", "h\xcc\x88"=>"\xe1\xb8\xa7",

"H\xcc\xa7"=>"\xe1\xb8\xa8", "h\xcc\xa7"=>"\xe1\xb8\xa9", "H\xcc\xae"=>"\xe1\xb8\xaa",
 "h\xcc\xae"=>"\xe1\xb8\xab", "I\xcc\xb0"=>"\xe1\xb8\xac", "i\xcc\xb0"=>"\xe1\xb8\xad",
 "\xc3\x8f\xcc\x81"=>"\xe1\xb8\xae", "\xc3\xaf\xcc\x81"=>"\xe1\xb8\xaf", "K\xcc\x81"=>"\xe1\xb8\xb0",
 "k\xcc\x81"=>"\xe1\xb8\xb1", "K\xcc\xa3"=>"\xe1\xb8\xb2", "k\xcc\xa3"=>"\xe1\xb8\xb3",
 "K\xcc\xb1"=>"\xe1\xb8\xb4", "k\xcc\xb1"=>"\xe1\xb8\xb5", "L\xcc\xa3"=>"\xe1\xb8\xb6",
 "l\xcc\xa3"=>"\xe1\xb8\xb7", "\xe1\xb8\xb6\xcc\x84"=>"\xe1\xb8\xb8",
 "\xe1\xb8\xb7\xcc\x84"=>"\xe1\xb8\xb9", "L\xcc\xb1"=>"\xe1\xb8\xba", "l\xcc\xb1"=>"\xe1\xb8\xbb",
 "L\xcc\xad"=>"\xe1\xb8\xbc", "l\xcc\xad"=>"\xe1\xb8\xbd", "M\xcc\x81"=>"\xe1\xb8\xbe",
 "m\xcc\x81"=>"\xe1\xb8\xbf", "M\xcc\x87"=>"\xe1\xb9\x80", "m\xcc\x87"=>"\xe1\xb9\x81",
 "M\xcc\xa3"=>"\xe1\xb9\x82", "m\xcc\xa3"=>"\xe1\xb9\x83", "N\xcc\x87"=>"\xe1\xb9\x84",
 "n\xcc\x87"=>"\xe1\xb9\x85", "N\xcc\xa3"=>"\xe1\xb9\x86", "n\xcc\xa3"=>"\xe1\xb9\x87",
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"\xel\xbd\xa9\xcd\x85"=>"\xel\xbe\xa9", "\xel\xbd\xaa\xcd\x85"=>"\xel\xbe\xaa",
"\xel\xbd\xab\xcd\x85"=>"\xel\xbe\xab", "\xel\xbd\xac\xcd\x85"=>"\xel\xbe\xac",
"\xel\xbd\xad\xcd\x85"=>"\xel\xbe\xad", "\xel\xbd\xae\xcd\x85"=>"\xel\xbe\xae",
"\xel\xbd\xaf\xcd\x85"=>"\xel\xbe\xaf", "\xce\xbl\xcc\x86"=>"\xel\xbe\xb0",
"\xce\xbl\xcc\x84"=>"\xel\xbe\xb1", "\xel\xbd\xb0\xcd\x85"=>"\xel\xbe\xb2",
"\xce\xbl\xcd\x85"=>"\xel\xbe\xb3", "\xce\xac\xcd\x85"=>"\xel\xbe\xb4",
"\xce\xbl\xcd\x82"=>"\xel\xbe\xb6", "\xel\xbe\xb6\xcd\x85"=>"\xel\xbe\xb7",
"\xce\x91\xcc\x86"=>"\xel\xbe\xb8", "\xce\x91\xcc\x84"=>"\xel\xbe\xb9",
"\xce\x91\xcc\x80"=>"\xel\xbe\xba", "\xce\x91\xcd\x85"=>"\xel\xbe\xbc",
"\xc2\xa8\xcd\x82"=>"\xel\xbf\x81", "\xel\xbd\xb4\xcd\x85"=>"\xel\xbf\x82",
"\xce\xb7\xcd\x85"=>"\xel\xbf\x83", "\xce\xae\xcd\x85"=>"\xel\xbf\x84",
"\xce\xb7\xcd\x82"=>"\xel\xbf\x86", "\xel\xbf\x86\xcd\x85"=>"\xel\xbf\x87",
"\xce\x95\xcc\x80"=>"\xel\xbf\x88", "\xce\x97\xcc\x80"=>"\xel\xbf\x8a",
"\xce\x97\xcd\x85"=>"\xel\xbf\x8c", "\xel\xbe\xbf\xcc\x80"=>"\xel\xbf\x8d",
"\xel\xbe\xbf\xcc\x81"=>"\xel\xbf\x8e", "\xel\xbe\xbf\xcd\x82"=>"\xel\xbf\x8f",
"\xce\xb9\xcc\x86"=>"\xel\xbf\x90", "\xce\xb9\xcc\x84"=>"\xel\xbf\x91",
"\xcf\x8a\xcc\x80"=>"\xel\xbf\x92", "\xce\xb9\xcd\x82"=>"\xel\xbf\x96",
"\xcf\x8a\xcd\x82"=>"\xel\xbf\x97", "\xce\x99\xcc\x86"=>"\xel\xbf\x98",
"\xce\x99\xcc\x84"=>"\xel\xbf\x99", "\xce\x99\xcc\x80"=>"\xel\xbf\x9a",
"\xel\xbf\xbe\xcc\x80"=>"\xel\xbf\x9d", "\xel\xbf\xbe\xcc\x81"=>"\xel\xbf\x9e",
"\xel\xbf\xbe\xcd\x82"=>"\xel\xbf\x9f", "\xcf\x85\xcc\x86"=>"\xel\xbf\xa0",
"\xcf\x85\xcc\x84"=>"\xel\xbf\xa1", "\xcf\x8b\xcc\x80"=>"\xel\xbf\xa2",
"\xcf\x81\xcc\x93"=>"\xel\xbf\xa4", "\xcf\x81\xcc\x94"=>"\xel\xbf\xa5",
"\xcf\x85\xcd\x82"=>"\xel\xbf\xa6", "\xcf\x8b\xcd\x82"=>"\xel\xbf\xa7",
"\xce\xa5\xcc\x86"=>"\xel\xbf\xa8", "\xce\xa5\xcc\x84"=>"\xel\xbf\xa9",
"\xce\xa5\xcc\x80"=>"\xel\xbf\xaa", "\xce\xa1\xcc\x94"=>"\xel\xbf\xac",
"\xc2\xa8\xcc\x80"=>"\xel\xbf\xad", "\xel\xbd\xbc\xcd\x85"=>"\xel\xbf\xb2",
"\xcf\x89\xcd\x85"=>"\xel\xbf\xb3", "\xcf\x8e\xcd\x85"=>"\xel\xbf\xb4",
"\xcf\x89\xcd\x82"=>"\xel\xbf\xb6", "\xel\xbf\xb6\xcd\x85"=>"\xel\xbf\xb7",
"\xce\x9f\xcc\x80"=>"\xel\xbf\xb8", "\xce\xa9\xcc\x80"=>"\xel\xbf\xba",
"\xce\xa9\xcd\x85"=>"\xel\xbf\xbc");

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