User's Guide » What Else Can I Do?

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. Aá??Aä) 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 resposition 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:

```
$\text{$mpdf} - \text{compat} = \text{array} ( \text{"A}\text{xc}\x80" => \text{"\xc3}\x80", \text{"A}\text{xc}\x81" => \text{\xc3}\x81" \\
"A\xcc\x82" == \text{\xc3}\x82", \text{"A}\xcc\x83" => \text{"\xc3}\x83", \text{"A}\xcc\x88" => \text{\xc3}\x84" \\
"A\xcc\x88" => \text{\xc3}\x85", \text{"C}\xcc\x87" => \text{\xc3}\x87", \text{"E}\xcc\x80" => \text{\xc3}\x88 \\
"I\xcc\x86" => \text{\xc3}\x88", \text{"E}\xcc\x80" => \text{\xc3}\x88 \\
"I\xcc\x86" => \text{\xc3}\x89", \text{"E}\xcc\x82" => \text{\xc3}\x89 \\
"O\xcc\x88" => \text{\xc3}\x99", \text{"O\xcc\x83" => \text{\xc3}\x92", \text{"O\xcc\x83" => \text{\xc3}\x92", \text{"O\xcc\x83" => \text{\xc3}\x92", \text{\xc3}\x92", \text{\xc3}\x94", \text{\xc3}\x92", \tex
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "O\xcc\x80"=>"\xc3\x82"
"O\xcc\x80"=>"\xc3\x92"
"U\xcc\x81"=>"\xc3\x95"
"U\xcc\x81"=>"\xc3\x94"
"Y\xcc\x81"=>"\xc3\x94"
"a\xcc\x82"=>"\xc3\xa2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "1\xcc\x88"=>"\xc3\xaf"
"0\xcc\x81"=>"\xc3\xb6"
"0\xcc\x88"=>"\xc3\xb6"
"u\xcc\x82"=>"\xc3\xbb"
"y\xcc\x88"=>"\xc3\xbf"
"A\xcc\x86"=>"\xc4\x82"
"a\xcc\x88"=>"\xc4\x85"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "C\xcc\x82"=>"\xc4\x88"
"C\xcc\x87"=>"\xc4\x8b"
"D\xcc\x8c"=>"\xc4\x8e"
"e\xcc\x84"=>"\xc4\x93"
"E\xcc\x87"=>"\xc4\x96"
                                                                                                                                                                                                                                                                       "E\xcc\x84"=>"\xc4\x92",
"e\xcc\x86"=>"\xc4\x95",
"E\xcc\x86"=>"\xc4\x98",
"e\xcc\x86"=>"\xc4\x98",
"e\xcc\x86"=>"\xc4\x9b",
"g\xcc\x86"=>"\xc4\x9b",
"g\xcc\x87"=>"\xc4\x94",
"i\xcc\x83"=>"\xc4\xa4",
"i\xcc\x83"=>"\xc4\xa9",
"i\xcc\x88"=>"\xc4\xa9",
"i\xcc\x88"=>"\xc4\xa6",
"j\xcc\x88"=>"\xc4\xb5",
"L\xcc\x81"=>"\xc4\xb9",
"l\xcc\x81"=>"\xc4\xb9",
"n\xcc\x87"=>"\xc4\xb6",
"n\xcc\x87"=>"\xc5\x86",
"o\xcc\x84"=>"\xc5\x86",
"o\xcc\x86"=>"\xc5\x86",
"R\xcc\x81"=>"\xc5\x86",
"R\xcc\x81"=>"\xc5\x86",
"r\xcc\x81"=>"\xc5\x86",
"r\xcc\x81"=>"\xc5\x86",
"r\xcc\x81"=>"\xc5\x86",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "E\xcc\x87"=>"\xc4\x96"
"e\xcc\xa8"=>"\xc4\x99"
"G\xcc\x82"=>"\xc4\x9c"
"g\xcc\x86"=>"\xc4\x9f"
"h\xcc\x82"=>"\xc4\xa5"
"I\xcc\x84"=>"\xc4\xaa"
"i\xcc\x84"=>"\xc4\xaa"
"i\xcc\x86"=>"\xc4\xad"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "i\xcc\x86"=>"\xc4\xad"
"I\xcc\x87"=>"\xc4\xbd"
"K\xcc\x87"=>"\xc4\xb6"
"1\xcc\x81"=>"\xc4\xbd"
"L\xcc\x80"=>"\xc4\xbd"
"n\xcc\x81"=>"\xc5\x84"
"N\xcc\x80"=>"\xc5\x84"
                      "O\xcc\x86"=>"\xc5\x86"
"O\xcc\x86"=>"\xc5\x8e"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "0\xcc\x8b"=>"\xc5\x90"
"r\xcc\x81"=>"\xc5\x95"
                                                                                                                                                                                                                                                                            "R\xcc\x81"=>"\xc5\x94",
"r\xcc\x87"=>"\xc5\x94",
"S\xcc\x81"=>"\xc5\x94",
"s\xcc\x82"=>"\xc5\x9d",
"s\xcc\x82"=>"\xc5\x9d",
"t\xcc\x87"=>"\xc5\xa0",
"t\xcc\x83"=>"\xc5\xa8",
"u\xcc\x84"=>"\xc5\xab",
"u\xcc\x84"=>"\xc5\xae",
"u\xcc\x88"=>"\xc5\xae",
"u\xcc\x88"=>"\xc5\xba",
"u\xcc\x88"=>"\xc5\xba",
"z\xcc\x82"=>"\xc5\xba",
"z\xcc\x82"=>"\xc5\xba",
"z\xcc\x82"=>"\xc5\xba",
"z\xcc\x81"=>"\xc5\xba",
              "O\xcc\x8b"=>"\xc5\x91",
"R\xcc\xa7"=>"\xc5\x96",
"r\xcc\x82"=>"\xc5\x96",
"S\xcc\x82"=>"\xc5\x96",
"S\xcc\xa7"=>"\xc5\x96",
"T\xcc\xa7"=>"\xc5\x9f",
"T\xcc\xa7"=>"\xc5\xa2",
"t\xcc\x82"=>"\xc5\xa2",
"U\xcc\x84"=>"\xc5\xa2",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "r\xcc\x81"=>"\xc5\x95"
"R\xcc\x8c"=>"\xc5\x98"
"s\xcc\x81"=>"\xc5\x9b"
"S\xcc\x87"=>"\xc5\x9e"
"s\xcc\x8c"=>"\xc5\xa1"
"T\xcc\x8c"=>"\xc5\xa1"
"u\xcc\x83"=>"\xc5\xa9"
"U\xcc\x86"=>"\xc5\xa9"
                 "u\xcc\x86"=>"\xc5\xad",
"u\xcc\x86"=>"\xc5\xad",
"U\xcc\x8b"=>"\xc5\xb0",
"u\xcc\x88"=>"\xc5\xb3",
"Y\xcc\x82"=>"\xc5\xb6",
"Z\xcc\x81"=>"\xc5\xb9",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "u\xcc\x8a"=>"\xc5\xac"
"u\xcc\x8a"=>"\xc5\xb2"
"w\xcc\x82"=>"\xc5\xb5"
"Y\xcc\x88"=>"\xc5\xb8"
"Z\xcc\x87"=>"\xc5\xb8"
                 "Z\xcc\x81"=>"\xc5\xb9",
"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\x8e"=>"\xc7\x8e", "i\xcc\x8e"=>"\xc7\x8e",
"I\xcc\x8e"=>"\xc7\x8e", "i\xcc\x8e"=>"\xc7\x9e", "o\xcc\x8e"=>"\xc7\x9e",
"o\xcc\x8e"=>"\xc7\x9e", "U\xcc\x8e"=>"\xc7\x9e", "o\xcc\x8e"=>"\xc7\x9e",
"o\xcc\x8e"=>"\xc7\x9e", "U\xcc\x8e"=>"\xc7\x9e", "u\xcc\x8e"=>"\xc7\x9e",
"\xc3\xbc\xcc\x8e"=>"\xc7\x9e", "u\xcc\x8e"=>"\xc7\x9e",
"\xc3\xbc\xcc\x8e"=>"\xc7\x9e", "xc7\x9e", "xc7\x9e", "xc7\x9e", "xc3\xbc\xcc\x8e"=>"\xc7\x9e",
"\xc3\xbc\xcc\x8e"=>"\xc7\x9e", "xc3\xbc\xcc\x8e"=>"\xc7\x9e", "xc3\xbc\xcc\x8e"=>"\xc7\x9e",
"\xc3\xbc\xcc\x8e"=>"\xc7\x9e", "xc3\xbc\xcc\x8e"=>"\xc7\x9e", "xc3\xbc\xcc\x8e"=>"\xc7\x9e",
"\xc3\x8e\xcc\x8e"=>"\xc7\x9e", "xc8\x8e\xcc\x8e"=>"\xc7\x9e", "xc8\x8e\xac\x8e"=>"\xc7\x9e",
"\xc3\x8e\xcc\x8e"=>"\xc7\x9e", "xc8\x8e\xcc\x8e"=>"\xc7\x8e", "xc8\x8e"=>"\xc7\x9e",
"\xc3\x8e\xcc\x8e"=>"\xc7\x9e", "xc8\x8e\xac\x8e"=>"\xc7\x9e",
"\xc3\x8e\xcc\x8e"=>"\xc7\x9e", "xc8\x8e\xac\x8e"=>"\xc7\x9e",
"\xc3\x8e\xcc\x8e"=>"\xc7\x9e", "xc8\x8e\xac\x8e"=>"\xc7\x9e",
"\xc3\x8e\xcc\x8e"=>"\xc7\x8e", "xc8\x8e\xac\x8e"=>"\xc7\x9e",
"\xc3\x8e\xsc^*\x8e"=>"\xc7\x8e", "xc7\x8e", "xc8\x8e"=>"\xc7\x8e", "xc8\x8e"=>"\xc7\x8e",
"\xc3\x8e\xsc^*\x8e"=>"\xc7\x8e", "xc7\x8e", "xc7\x8e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "\xc8\xaf\xcc\x84"=>"\xc8\xb1", "\xcc\x84"=>"\xc8\xb2",
x88\xcc\x81"=>"\xcd\x84", "\xc2\xa8\xcc\x81"=>"\xce\x85",
"\xce\x95\xcc\x81"=>"\xce\x88", "\xce\x97\xcc\x81"=>"\xce\x89",
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"\xcf\x85\xcc\x81"=>"\xce\x86", "\xcf\x8b\xcc\x81"=>"\xce\xb0",
"\xcf\x85\xcc\x81"=>"\xcf\x88", "\xcf\x8b\xcc\x81"=>"\xcf\x80",
"\xcf\x89\xcc\x81"=>"\xcf\x88", "\xcf\x92\xcc\x81"=>"\xcf\x89",
"\xd0\x95\xcc\x80"=>"\xd0\x87", "\xd0\x95\xcc\x81"=>"\xd0\x80",
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"\xd0\x83\xcc\x86"=>"\xd1\x90", "\xd0\xb5\xcc\x86"=>"\xd1\x91",
"\xd1\x83\xcc\x86"=>"\xd3\x81", "\xd0\xb6\xcc\x86"=>"\xd1\x90",
"\xd0\x96\xcc\x86"=>"\xd3\x99", "\xd0\xb5\xcc\x86"=>"\xd3\x82",
"\xd0\x95\xcc\x86"=>"\xd3\x96", "\xd0\xb5\xcc\x86"=>"\xd3\x92",
"\xd0\x95\xcc\x88"=>"\xd3\x96", "\xd0\x96\xcc\x88"=>"\xd3\x92",
"\xd0\x95\xcc\x88"=>"\xd3\x96", "\xd0\x98\xcc\x88"=>"\xd3\x92",
"\xd0\x99\xcc\x88"=>"\xd3\x38", "\xd0\x98\xcc\x88"=>"\xd3\x39",
"\xd0\x38\xcc\x88"=>"\xd3\x38", "\xd0\x98\xcc\x88"=>"\xd3\x32",
"\xd0\x38\xcc\x88"=>"\xd3\x38", "\xd0\x38\xcc\x88"=>"\xd3\x32",
"\xd0\x38\xcc\x88"=>"\xd3\x38", "\xd0\x38\xcc\x88"=>"\xd3\x32",
"\xd0\x38\xcc\x88"=>"\xd3\x38", "\xd0\x38\xcc\x88"=>"\xd3\x32",
"\xd0\x38\xcc\x88"=>"\xd3\x38", "\xd0\x38\xcc\x88"=>"\xd3\x32",
"\xd0\x38\xc
                       "\xcc\x84"=>"\xc8\xb3", "\xcc\x91\xcc\x84"=>"\xc8\xb3", "\xcc\x91\xcc\x84"=>"\xce\x86",
"\xce\x91\xcc\x81"=>"\xce\x86",
"\xce\x99\xcc\x81"=>"\xce\x88",
"\xce\xa9\xcc\x81"=>"\xce\x88",
"\xce\xb7\xcc\x81"=>"\xce\xab",
"\xce\xb9\xcc\x81"=>"\xce\xae",
"\xcf\x85\xcc\x81"=>"\xcf\x8d",
"\xcf\x92\xcc\x88"=>"\xcf\x8d",
"\xdf\x92\xcc\x88"=>"\xcf\x94",
"\xd0\x93\xcc\x80"=>"\xd0\x83",
"\xd0\x98\xcc\x80"=>"\xd0\x8d",
"\xd0\xb8\xcc\x81"=>"\xd1\xb9",
"\xd0\xb8\xcc\x81"=>"\xd1\x93",
"\xd0\xb8\xcc\x81"=>"\xd1\x93",
"\xd0\xb8\xcc\x81"=>"\xd1\xb9",
"\xd0\xb8\xcc\x81"=>"\xd1\xb9",
"\xd0\xb8\xcc\x81"=>"\xd1\xb9",
"\xd0\xb8\xcc\x81"=>"\xd1\xb9",
"\xd0\xb8\xcc\x81"=>"\xd1\xb9",
"\xd0\xb8\xcc\x81"=>"\xd1\xb9",
"\xd0\xb8\xcc\x81"=>"\xd1\xb9",
"\xd0\xb8\xcc\x81"=>"\xd3\x90",
"\xd0\xb0\xcc\x88"=>"\xd3\x90",
"\xd0\xb0\xcc\x88"=>"\xd3\x90",
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### The Can I Do? **Combining Diagonal Company of the Can I Do. **Combining Diagonal Combining D
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*\wel\xbc\x83\xcd\x85*=>"\xel\xbe\x83", "\xel\xbc\x84\xcd\x85*=>"\xel\xbc\x866",

*\xel\xbc\x83\xcd\x85*=>"\xel\xbe\x85", "\xel\xbc\x866",

*\xel\xbc\x87\xcd\x88*=>"\xel\xbc\x85", "\xel\xbc\x866",

*\xel\xbc\x87\xcd\x88*=>"\xel\xbc\x866",

*\xel\xbc\x87\xcd\x88*=>"\xel\xbc\x88*,

*\xel\xbc\x88\xcd\x85*=>"\xel\xbc\x88*,

*\xel\xbc\x88\xcd\x85*=>"\xel\xbc\x88",

*\xel\xbc\x88\xcd\x85*=>"\xel\xbc\x89",

*\xel\xbc\x88\xcd\x85*=>"\xel\xbc\x89",

*\xel\xbc\x89\xcd\x85*=>"\xel\xbc\x89",

*\xel\xbc\x89\xcd\x85*=>"\xel\xbc\x89",

*\xel\xbc\x89\xcd\x85*=>"\xel\xbc\x89",

*\xel\xbc\x89\xcd\x85*=>"\xel\xbc\x89",

*\xel\xbc\x89\xcd\x85*=>"\xel\xbc\x89",

*\xel\xbc\x88\xcd\x85*=>"\xel\xbc\x89",

*\xel\xbc\x89\xcd\x85*=>"\xel\xbc\x89",

*\xel\xbc\x80\xcd\x85*=>"\xel\xbc\x89",

*\xel\xbc\x80\xcd\x85*=>"\xel\xbc\x89",

*\xel\xbc\x80\xcd\x85*=>"\xel\xbc\x89",

*\xel\xbc\x80\xcd\x85*=>"\xel\xbc\x89",

*\xel\xbc\x80\xcd\x85*=>"\xel\xbc\x89",

*\xel\xbc\x80\xcd\x85*=>"\xel\xbc\x89",

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*\xel\xbc\x80\xcd\x85*=>"\xel\xbc\x89",

*\xel\xbc\x80\xcd\x80\x85*=>"\xel\xbc\x89",

*\xel\xbc\x80\xcd\x80\x85*=>"\xel\xbc\x80",

*\xel\xbc\x80\xcd\x80\x85*=>"\xel\xbc\x80",

*\xel\xbc\x80\xcd\x80\x85*=>"\xel\xbc\x80",

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*\xel\xbc\x80\xcd\x80\x85*=>"\xel\xbc\x80",

*\xel\xbc\x80\x80\xcd\x80\x85*=>"\xel\xbc\x80",

*\xel\xbc\x80\xcd\x80\x85*=>"\xel\xbc\x80",

*\xel\x
```

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