



Linux Ubuntu 22.4.5 Manual Pages on command 'Font::TTF::OS_2.3pm'

\$ man Font::TTF::OS_2.3pm

Font::TTF::OS_2(3pm) User Contributed Perl Documentation Font::TTF::OS_2(3pm)

NAME

Font::TTF::OS_2 - the OS/2 table in a TTF font

DESCRIPTION

The OS/2 table has two versions and forms, one an extension of the other. This module supports both forms and the switching between them.

INSTANCE VARIABLES

No other variables than those in table and those in the standard:

Version

xAvgCharWidth

usWeightClass

usWidthClass

fsType

ySubscriptXSize

ySubScriptYSize

ySubscriptXOffset

ySubscriptYOffset

ySuperscriptXSize

ySuperscriptYSize
ySuperscriptXOffset
ySuperscriptYOffset
yStrikeoutSize
yStrikeoutPosition
sFamilyClass
bFamilyType
bSerifStyle
bWeight
bProportion
bContrast
bStrokeVariation
bArmStyle
bLetterform
bMidline
bXheight
ulUnicodeRange1
ulUnicodeRange2
ulUnicodeRange3
ulUnicodeRange4
achVendID
fsSelection
usFirstCharIndex
usLastCharIndex
sTypoAscender
sTypoDescender
sTypoLineGap
usWinAscent
usWinDescent
ulCodePageRange1
ulCodePageRange2
xHeight
CapHeight

defaultChar
breakChar
maxLookups

Notice that versions 0, 1, 2 & 3 of the table are supported. Notice also that the Panose variable has been broken down into its elements.

METHODS

`$t->read`

Reads in the various values from disk (see details of OS/2 table)

`$t->out($fh)`

Writes the table to a file either from memory or by copying.

`$t->XML_element($context, $depth, $key, $value)`

Tidies up the hex values to output them in hex

`$t->XML_end($context, $tag, %attrs)`

Now handle them on the way back in

`$t->minsize()`

Returns the minimum size this table can be. If it is smaller than this, then the table must be bad and should be deleted or whatever.

`$t->update`

Updates the OS/2 table by getting information from other sources:

Updates the "firstChar" and "lastChar" values based on the MS table in the cmap.

Updates the sTypoAscender, sTypoDescender & sTypoLineGap to be the same values as Ascender, Descender and Linegap from the hhea table (assuming it is dirty) and also sets usWinAscent to be the sum of Ascender+Linegap and usWinDescent to be the negative of Descender.

\$t->guessRangeBits (\%map, [\$cp_threshold, [%u_threshold]])

Set the ulCodePageRange and ulUnicodeRange fields based on characters actually present in the font.

%map is a hash keyed by USV returning non-zero for characters present (e.g. use {'val'} a from Unicode cmap).

The two optional parameters are percentage of characters within the codepage or unicode range that need to be present to constitute coverage. A threshold of 0 causes corresponding range bits to be set if any characters are present at all, while a negative value causes the corresponding range bits to be unchanged. Defaults are 50 and 0, respectively.

For codepage bits, the threshold is percentage of characters between 0xC0 and 0xFF that need to be present to constitute coverage). For codepages other than 1252, characters (e.g., punctuation) that are defined identically to cp1252 are ignored for the purposes of this percentage calculation. Looks only for SBCS codepages, not DBCS.

For Unicode range bits that represent multiple ranges, e.g., bit 29 represents:

Latin Extended Additional 1E00-1EFF

Latin Extended-C 2C60-2C7F

Latin Extended-D A720-A7FF

the bit will be set if any of these ranges meet the threshold requirement.

BUGS

None known

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LICENSING

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