# **OpenType Features Editor User Guide**

A Windows application for generating and editing OpenType features.

Draft 1 04.11.2012

# 1. Main Application Window

al OpenType Features Editor			
Open File Preferences Glyph Classes			Quit
<u>Glyphs</u>	Clear <u>Glyph Classes</u>	Clear	OpenType Features Settings
			aalt All Alternates
			Capitals to Petite Caps
			Petite Caps
			Capitals to Small Caps
			Oldstyle Figures
			Case Case-Sensitive Forms
			Lining Figures
			Proportional Figures
			Tabular Figures
			Superscript
			🗾 sinf 📼
		*	22 A
			Generate Features
	T	Ŧ	

Figure 1: Main application window.

## "Open File" Toolbar Button

Start here. Click			
this button to	on Borders	📄 MirandaPro-Regular-8.afm	4/8/2012 6:36
	/	📄 MirandaPro-Regular-7.afm	4/4/2012 10:03
open a	tia	📄 MirandaPro-Regular-6.afm	4/4/2012 8:30,
Windows file	RICS	MirandaPro-Regular-5.afm	3/31/2012 8:19
dialog where	nda	TrajanPro-Regular.afm	3/11/2012 4:20
you can select	u _		
an AFM (Adobe		•	· · ·
Font Metrics)	File <u>n</u> ame:	•	Adobe Font Metrics (*.afm) 🔹
file. When you			Open 🔽 Cancel
open your			H.

selected AFM file, the Editor will automatically populate the list of glyphs, automatically generate glyph classes based on glyph name suffixes and supported features and finally automatically generate OpenType features based on the glyphs available, the glyph classes and supported features.

OpenType Features Editor					
					-
Open File Preferences Glyph Class	es				Qui
<u>Glyphs</u>	Clear	<u>Glyph Classes</u>	Clear	OpenType Features	Settings
space		smcp1	<b>A</b>	Capital Spacing	
nbspace		smcp0		🗹 aalt	
hairspace		salt1		All Alternates	
thinspace		salt0		C2pc	=
enspace		onum1		Lapitals to Petite Laps	
emspace		onum0		Potito Capo	
acute		tnum_onum1			
breve		tnum_onum0		Capitals to Small Caps	
caron		ordn1	E	🔽 opum	
cedilla		ordn0		Oldstyle Figures	
circumflex		sinf1		Case	
commaaccent		sinfO		Case-Sensitive Forms	
dieresis		subs1		🔄 Inum	
dieresisacute		subs0		Lining Figures	
dieresisgrave		sups1		🗹 pnum	
dotaccent		sups0		Proportional Figures	
hungarumlaut		dnom1		Tabular Figures	
grave		dnom0			
dblgrave		numr1		Superscript	
macron	-	numr0	+	✓ sinf	-
904 glyphs loaded.	*		*	200	
				Generate Feature	s
	~		-		

Figure 2: Main application window with glyphs loaded and classes and features generated.

## "Glyph Classes" Toolbar Button

Click this button to clear the current list of glyph classes and regenerate the classes from the currently loaded glyphs. These classes can only be generated if glyphs have been loaded from an AFM file.

## "Quit" Toolbar Button

Click this button to quit and exit the application.

## "Glyphs" List Box

This list box displays all of the glyphs loaded from the selected AFM file. Click an individual glyph in the list to view more details about it in the box below.

## "Glyph Classes" List Box

This list box displays all of the glyph classes generated by the application. Click an individual class in the list to view additional details in the box below.

#### "Clear" Buttons

Click these buttons to clear the list boxes each is adjacent to.

## **"OpenType Features" List Box**

This list box displays all of the OpenType features supported by the application. Each feature with rules has a check in the checkbox next to it. These checked features will be included in the features file when generated. Doubleclick a feature in the list to view and edit its rules, or select a feature and click the "Settings" button above to do the same.

## "Settings" Button

Select a feature in the "OpenType Features" list box and click this button to view and edit the selected feature's rules.

Feature Settings	<b>—</b>
dlig Discretionary Ligatures	
feature dlig { sub o g by o_g; sub o c by o_c; sub l a by l_a; sub r i by r_i; sub r a by r_a; sub o o by o_o;	•
New Rule Builder       Original     Replacement       a     a       A     A       a.ordn     a.ordn       a.sinf     A.smcp       a.subs     a.subs	Add Rule Glyph Lists Class Lists Text Boxes
ОК (	Cancel

#### Figure 3: "Feature Settings" window.

## "Generate Features" Button

Click this button to generate and view the features file. In the dialog that opens, you can also edit any part of the features file and then save it.

# 2. Feature Settings Window

The "Feature Settings" window allows you to view and edit rules within a feature. You can either add and modify rules directly in the textbox at the top of the window, or you can use the controls below the textbox to build rules and add them to the textbox.

Fea	ature Settings		×
(	dlig Discretionary Ligatures		
f	eature dlig { suboc byo_c; suboc byo_c; subla byl_a; subribyr_i; subra byr_a; suboobyo_o;		•
	New Rule Builder Original A a.ordn a.sinf A.smcp a.subs	Replacement a A a.ordn a.sinf A.smcp a.subs	Add Rule   Add Rule   Glyph Lists   Class Lists    Text Boxes
			OK Cancel

Figure 4: "Feature Settings" window.

#### "New Rule Builder"

Use the "New Rule Builder" to build and add rules to features. There are three different modes that you can work in: Glyph Lists, Class Lists and Text Boxes. Use the radio buttons on the right to change modes.

#### "Add Rule" Button

Click this button to add the new rule to the feature in the large textbox.

#### **Glyph Lists**

Use the Glyph Lists (shown in Fig. 4) to select specific glyphs in the construction of your substitution rules.

#### **Class Lists**

Use the Class Lists to select automatically generated classes for your rule.

New Rule Builder	
Original	Replacement
- I	▼ Add Rule
dnom0	Chat Line
dnom1	🔘 Giyph Lists
numr0	Class Lists
numr1	J
onumU	🔘 Text Boxes
onumi	
ordnU	
ordn1	
pnumU	
pnum1	

Figure 5: Class Lists

#### **Text Boxes**

Use the Text Boxes mode to type in the elements of your substitution rule.

Uriginal	Replacement	
		Add Rule
		🔘 Glyph Lists
		🔘 Class Lists
		Text Boxes

Figure 6: Text Boxes

#### **"OK" Button**

Click this button to save your changes and dismiss the window.

#### "Cancel" Button

Click this button to discard your changes and dismiss the window.

# 3. OpenType Features Window

The "OpenType Features" window is displayed when you click the "Generate Features" button in the main application window.

# Named Classes @smcp1=[acute.smcp breve.smcp caron.smcp cedilla.smcp circumflex.smcp commaaccent.smcp dieresis.smcp dieresisacute.smcp dieresisgrave.smcp dotaccent.smcp
hungarumlaut.smcp grave.smcp dblgrave.smcp Macron.smcp ogonek.smcp ring.smcp tilde.smcp A.smcp AE.smcp AE acute.smcp A_A.smcp A_X.smcp Aacute.smcp Abreve.smcp Acircumflex.smcp Adieresis.smcp Agrave.smcp Amacron.smcp Acgonek.smcp Aring.smcp Atilde.smcp B.smcp C.smcp C_T.smcp C_Y.smcp Cacute.smcp Ccaron.smcp Ccedilla.smcp Ccircumflex.smcp Edotaccent.smcp D.smcp Dcaron.smcp Dcroat.smcp E.smcp Eacute.smcp Ebreve.smcp Ecaron.smcp Ecircumflex.smcp Edieresis.smcp Edotaccent.smcp Egrave.smcp Emacron.smcp Eng.smcp Eogonek.smcp Eth.smcp F.smcp G.smcp Gbreve.smcp I.smcp I.smcp Iacute.smcp Ibreve.smcp Icircumflex.smcp Idieresis.smcp Idotaccent.smcp I.smcp Iacute.smcp Ibreve.smcp Icircumflex.smcp Idieresis.smcp Idotaccent.smcp I.smcp K_A.smcp K_Y.smcp Kcommaaccent.smcp L.smcp L_A.smcp Lacute.smcp Lcaron.smcp Ecommaaccent.smcp Dolates.smcp Idieresis.smcp Idotaccent.smcp I.smcp I.smcp Iacute.smcp Idots.smcp Islash.smcp M.smcp N.smcp Dacute.smcp Lcaron.smcp Ecommaaccent.smcp Lots.smcp D.smcp I.S.smcp Dacute.smcp Ncaron.smcp Ncommaaccent.smcp Lots.smcp D.smcp I.S.smcp D.g.smcp D.o.smcp O.acute.smcp Obreve.smcp Ocircumflex.smcp Idieresis.smcp Dgrave.smcp D.smcp R.smcp R_A.smcp R_I.smcp Racute.smcp Rearon.smcp Dograve.smcp D.smcp S_T.smcp S_T.y.smcp Sacute.smcp Scaron.smcp Scedilla.smcp S.smcp S_T.smcp S_T.y.smcp Sacute.smcp Scaron.smcp T_Y.smcp Tbar.smcp Tcaron.smcp Tcornnaccent.smcp Linexp T_T.smcp T_Y.smcp Tbar.smcp Thorn.smcp U.smcp Uacute.smcp Ubreve.smcp Ucircumflex.smcp Udieresis.smcp Ugrave.smcp V_y.smcp W_smcp W_1.smcp Wacute.smcp Uting.smcp Utilde.smcp V.smcp V_y.smcp W.smcp X_smcp Y_smcp Y_smcp Y_smcp Wcircumflex.smcp Vdieresis.smcp Wgrave.smcp X.smcp X_smcp Y_smcp Y_smcp Y_smcp
Save OpenType Features File

Figure 7: OpenType Features window

Use the large scrolling textbox to view and edit the generated feature code.

Click the "Save OpenType Features File" button to save your features code as a .fea file that you can import into your font development application (e.g., FontLab Studio).