



Zapfino EXTRA

The Making of
the Contextual
OpenType Features

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Wie kann man bei der Wahl schwanken,
ob man sein Leben den Frauen oder den Büchern widmen soll!

Kann man eine Frau, wenn sie ihre Lappen hat,
zuklappen und ins Regal stellen?

Wanderte schon einmal ein Buch, ohne dich zu fragen,
einfach aus deinem Zimmer weg in den Bücherschrank eines anderen?

Hat je ein Buch, stand dir gerade die Lust zu einem anderen,
wolltest du schlafen oder auch nichts tun,
von dir verlangt, du solltest gerade jetzt es lesen
und ihm allein dich widmen? Werden die Suppen von Büchern versalzen?

Können Bücher schmollen, Klavier spielen?

Einen Mangel freilich haben sie: Sie können nicht küssen!

Hans von Weber

ABCD

ja b ba ce ? x

j ss r r s

t p x y esh o. e

ff d qu e sp

ffi 42 Q 0 ZERO 4

da the the the

ffi ph ph x pp e

ss x

Skizzen für Ligaturen zur Zepfio aus dem Jahre 1994

Hermann Zepf

45 46 47 48 49 50 51 52 53 54 55 56
The Goudy @ & Buz

57 58 59 60 61 62 63 64 65 66 67 68 69 70
Uxesper Woex Orew

71 72 73 74 75 76 77 78 79 80 81
Ebeç eò @ Math s!

Zapfino

A new Script Typeface
from
Linotype Library GmbH
by
Hermann Zapf



ABCDEF GHIJKL MN
abcde fghijklmnopqr
opqrstu vwxyz

23456789 0 1234567890
Q S P E Y E

1 2 3 4 5 6 7 8 9 0
A B C D E F G H I
J K L M N O P Q R
S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z
0 1 2 3 4 5 6 7 8 9
& No. No. La. Q. E. & E.

ABCDEF GHIJKL MN
abcde fghijklmnopqr
opqrstu vwxyz

23456789 0 1234567890
Q S P E Y E

1 2 3 4 5 6 7 8 9 0
A B C D E F G H I
J K L M N O P Q R
S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z
0 1 2 3 4 5 6 7 8 9
& No. No. La. Q. E. & E.

◆ Zapfino One

A B C D E Q Z a b c d e f g x y z

◆ Zapfino Two

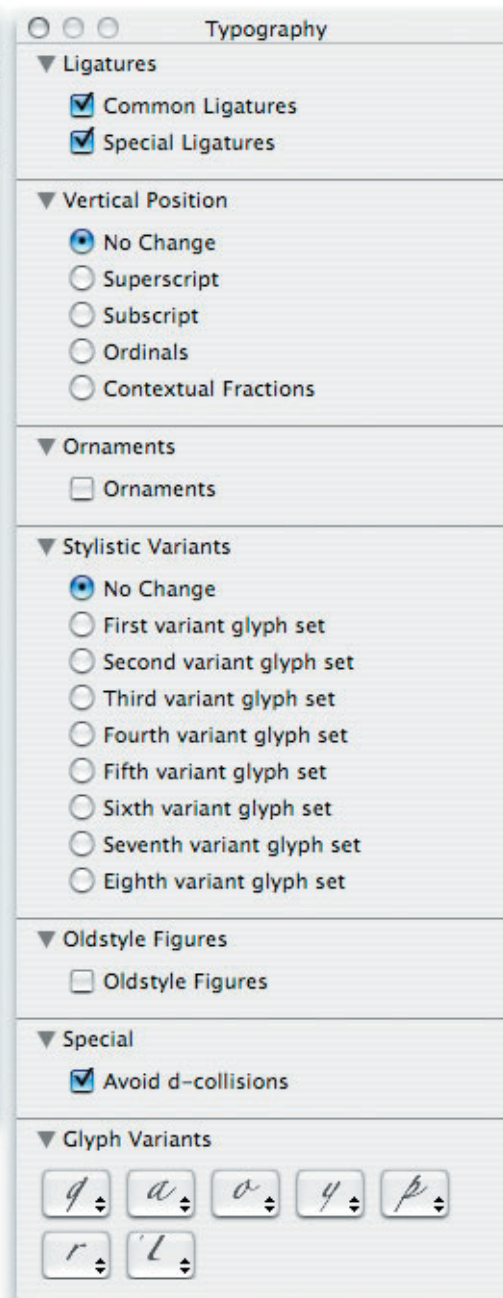
A B C D E Q Z a b c d e f g x y z

◆ Zapfino Three

A B C D E Q Z a b c d e f g x y z

◆ Zapfino Four

A B C D E Q Z a b c d e f g x y z



Typesetting with the Zaffino Type 1 font

As an unperfect actor on the stage
Who with his fear

As an unperfect actor *on the stage*
Who with *his fear*



From Zapfino to Zapfino EXTRA

▶ Zapfino (PostScript Type 1)

A A M S d g m w

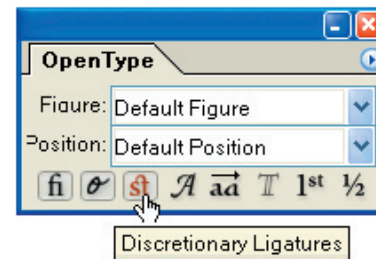
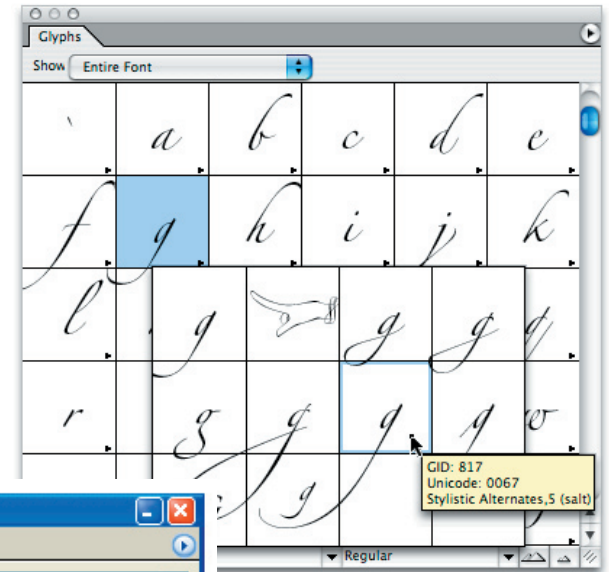
▶ Zapfino Extra (OpenType Std and OpenType Pro)

A A M S d g m w

Typesetting with Zappino EXTRA 1.0 edition

As an unperfect actor on the stage
Who with his fear

As an unperfect actor on the stage
Who with his fear



Discover the power of OpenType with *Zaffino* EXTRA 2.0

cal ▶ *calligr* ▶ *calligrap* ▶
▶ *calligraph* ▶ *calligraphic*

▶ **NEW!** OpenType Contextual Features:

calt – contextual alternates

clig – contextual ligatures

Just type your text and let the magic work!

▶ Without contextual features

Wolfgang Amadeus Mozart

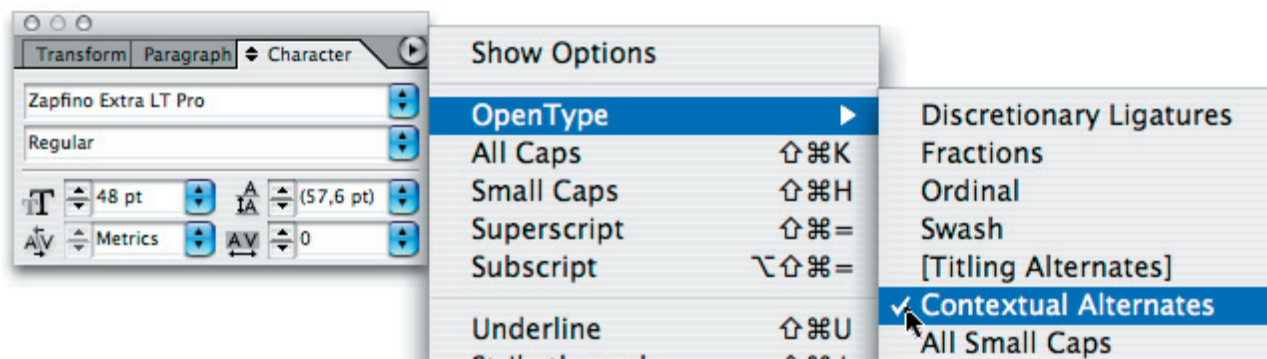
▶ With contextual features

Wolfgang Amadeus Mozart

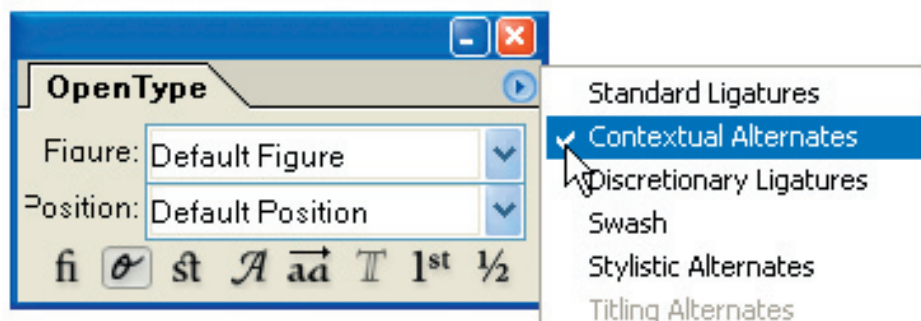


Just type your text and let the magic work!

➤ Adobe InDesign CS, Adobe Photoshop CS

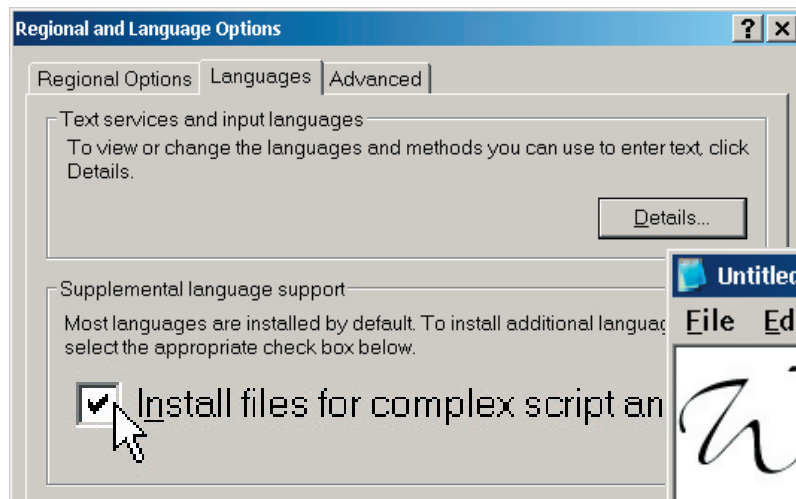


➤ Adobe Illustrator CS



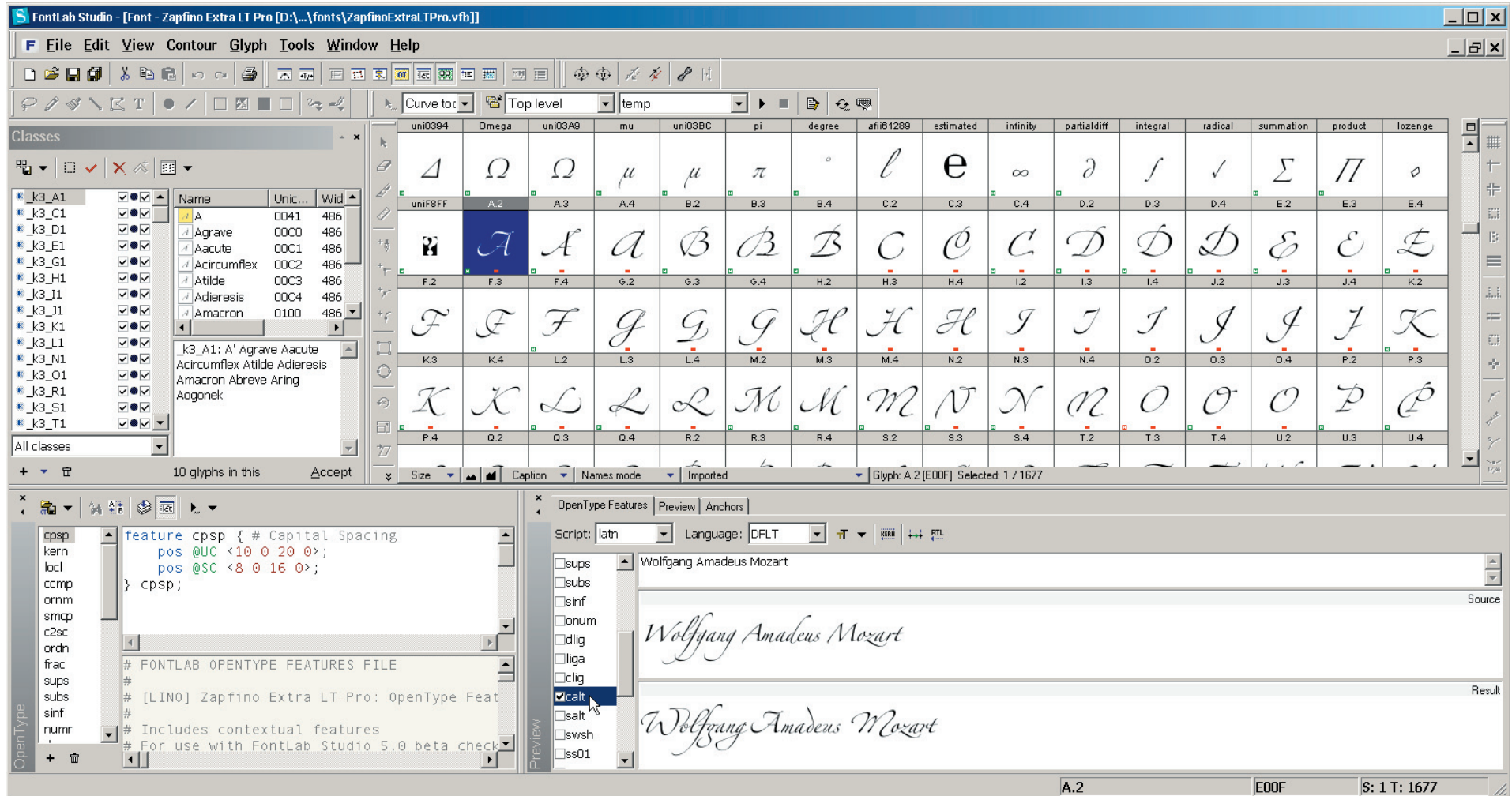
Just type your text and let the magic work!

➤ and... Notepad in Windows XP SP-2!



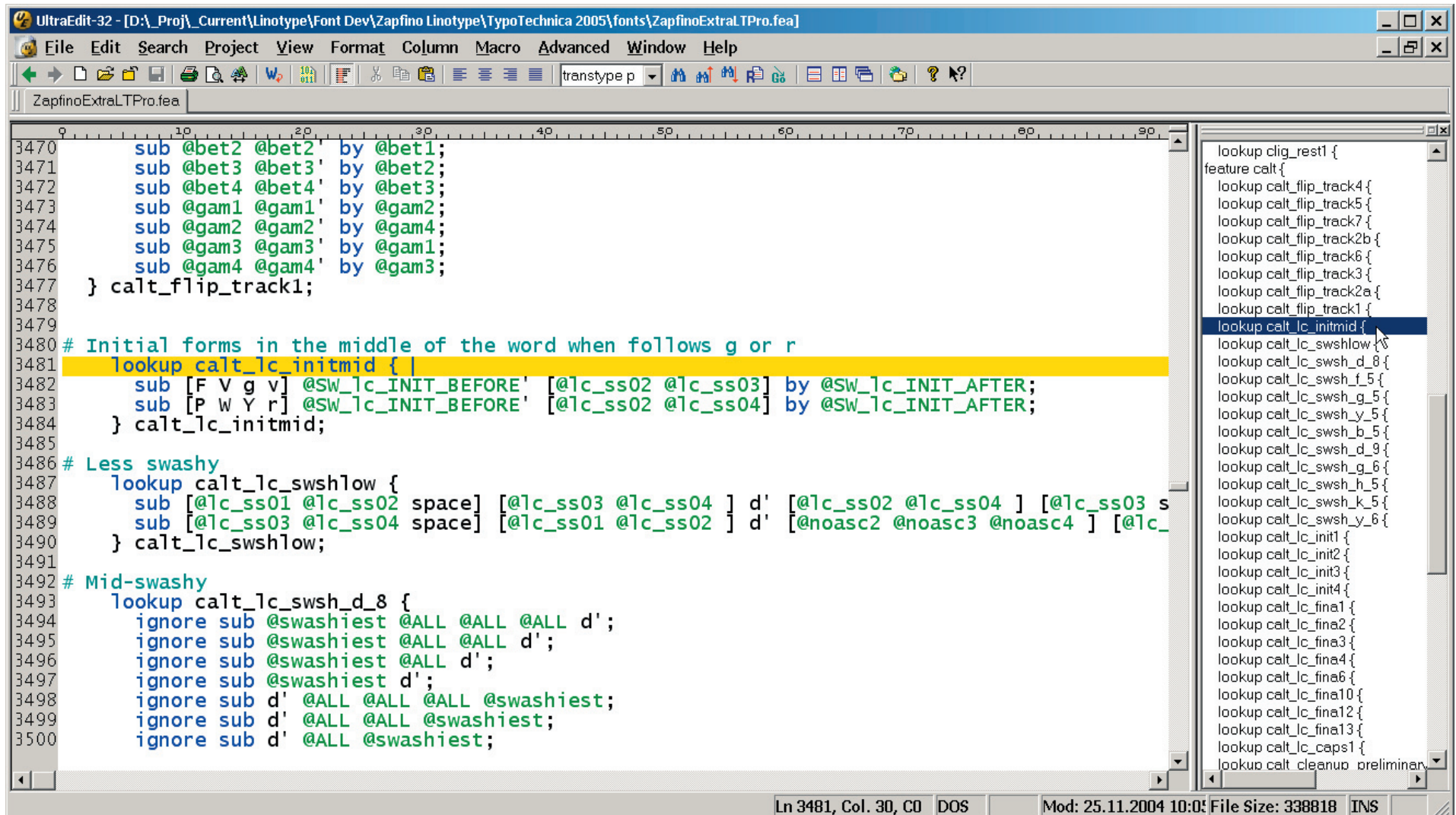
How did we do it?

- ▶ FontLab 4.6 and FontLab Studio 5 beta for design, class kerning, color marking of glyph groups, testing, proofing



How did we do it?

➤ UltraEdit-32 v10 for feature file development



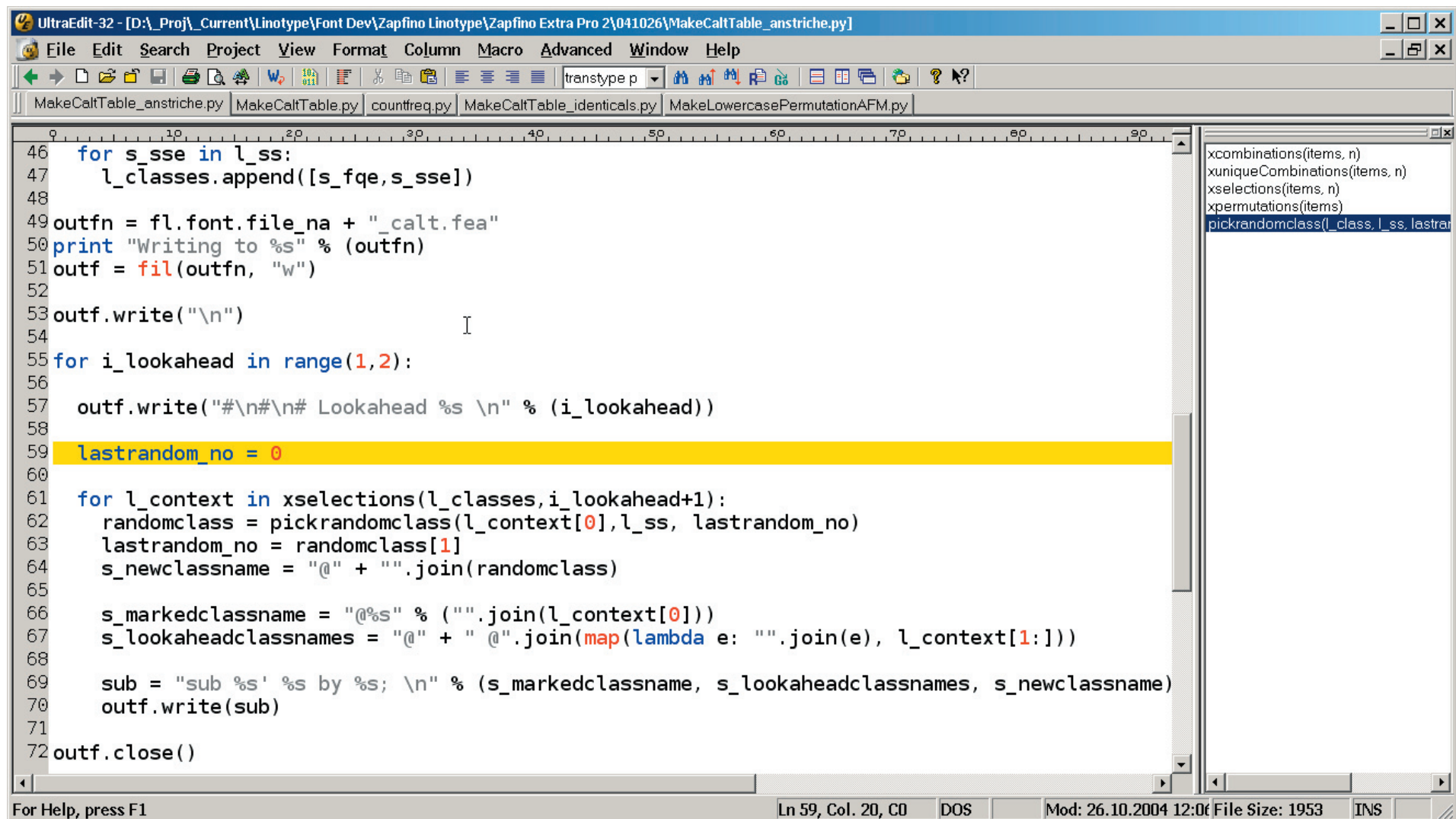
```
3470     sub @bet2 @bet2 by @bet1;
3471     sub @bet3 @bet3 by @bet2;
3472     sub @bet4 @bet4 by @bet3;
3473     sub @gam1 @gam1 by @gam2;
3474     sub @gam2 @gam2 by @gam4;
3475     sub @gam3 @gam3 by @gam1;
3476     sub @gam4 @gam4 by @gam3;
3477 } calt_flip_track1;
3478
3479
3480 # Initial forms in the middle of the word when follows g or r
3481 lookup calt_lc_initmid {
3482     sub [F V g v] @SW_lc_INIT_BEFORE' [@lc_ss02 @lc_ss03] by @SW_lc_INIT_AFTER;
3483     sub [P W Y r] @SW_lc_INIT_BEFORE' [@lc_ss02 @lc_ss04] by @SW_lc_INIT_AFTER;
3484 } calt_lc_initmid;
3485
3486 # Less swashy
3487 lookup calt_lc_swshlow {
3488     sub [@lc_ss01 @lc_ss02 space] [@lc_ss03 @lc_ss04 ] d' [@lc_ss02 @lc_ss04 ] [@lc_ss03 s
3489     sub [@lc_ss03 @lc_ss04 space] [@lc_ss01 @lc_ss02 ] d' [@noasc2 @noasc3 @noasc4 ] [@lc_
3490 } calt_lc_swshlow;
3491
3492 # Mid-swashy
3493 lookup calt_lc_swsh_d_8 {
3494     ignore sub @swashiest @ALL @ALL @ALL d';
3495     ignore sub @swashiest @ALL @ALL d';
3496     ignore sub @swashiest @ALL d';
3497     ignore sub @swashiest d';
3498     ignore sub d' @ALL @ALL @ALL @swashiest;
3499     ignore sub d' @ALL @ALL @swashiest;
3500     ignore sub d' @ALL @swashiest;
```

lookup clig_rest1 {
feature calt {
lookup calt_flip_track4 {
lookup calt_flip_track5 {
lookup calt_flip_track7 {
lookup calt_flip_track2b {
lookup calt_flip_track6 {
lookup calt_flip_track3 {
lookup calt_flip_track2a {
lookup calt_flip_track1 {
lookup calt_lc_initmid {
lookup calt_lc_swshlow {
lookup calt_lc_swsh_d_8 {
lookup calt_lc_swsh_f_5 {
lookup calt_lc_swsh_g_5 {
lookup calt_lc_swsh_y_5 {
lookup calt_lc_swsh_b_5 {
lookup calt_lc_swsh_d_9 {
lookup calt_lc_swsh_g_6 {
lookup calt_lc_swsh_h_5 {
lookup calt_lc_swsh_k_5 {
lookup calt_lc_swsh_y_6 {
lookup calt_lc_init1 {
lookup calt_lc_init2 {
lookup calt_lc_init3 {
lookup calt_lc_init4 {
lookup calt_lc_fina1 {
lookup calt_lc_fina2 {
lookup calt_lc_fina3 {
lookup calt_lc_fina4 {
lookup calt_lc_fina6 {
lookup calt_lc_fina10 {
lookup calt_lc_fina12 {
lookup calt_lc_fina13 {
lookup calt_lc_caps1 {
lookup calt_cleanup_preliminary

Ln 3481, Col. 30, CO DOS Mod: 25.11.2004 10:01 File Size: 338818 INS

How did we do it?

➤ Python scripting for feature development and testing



```
46 for s_sse in l_ss:
47     l_classes.append([s_fqe,s_sse])
48
49 outfn = fl.font.file_na + "_calt.fea"
50 print "Writing to %s" % (outfn)
51 outf = fil(outfn, "w")
52
53 outf.write("\n")
54
55 for i_lookahead in range(1,2):
56
57     outf.write("#\n#\n# Lookahead %s \n" % (i_lookahead))
58
59     lastrandom_no = 0
60
61     for l_context in xselections(l_classes,i_lookahead+1):
62         randomclass = pickrandomclass(l_context[0],l_ss, lastrandom_no)
63         lastrandom_no = randomclass[1]
64         s_newclassname = "@" + "".join(randomclass)
65
66         s_markedclassname = "@%s" % ("".join(l_context[0]))
67         s_lookaheadclassnames = "@" + " @".join(map(lambda e: "".join(e), l_context[1:]))
68
69         sub = "sub %s' %s by %s; \n" % (s_markedclassname, s_lookaheadclassnames, s_newclassname)
70         outf.write(sub)
71
72 outf.close()
```

xcombinations(items, n)
xuniqueCombinations(items, n)
xselections(items, n)
xpermutations(items)
pickrandomclass(l_class, l_ss, lastrandom_no)

For Help, press F1 Ln 59, Col. 20, CO DOS Mod: 26.10.2004 12:06 File Size: 1953 INS

Included OpenType Features

◆ Default set • Stylistic Set 1 (ss01)

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z 0 1 2 3 4 5 6 7 8 9 @

◆ Stylistic Alternates (salt) • Stylistic Set 2 (ss02)

A B C D E F G H I J K L M N O P Q R S T
U V W X Y Z a b c d e f g h i j k l m n o p q r s t u v w x y z &

Included OpenType Features

◆ Swash (swsh) • Stylistic Set 3 (ss03)

A B C D E F G H I J K L M N O P Q R S T
U V W X Y Z a b c d e f g h i j k l m n o p q r s t u v w x y z &

◆ Swash Stylistic Alternates (swsh + salt) • Stylistic Set 4 (ss04)

a B C D E F G H I J K L M N O P Q R S T
U V W X Y Z a b c d e f g h i j k l m n o p q r s t u v w x y z &

Included OpenType Features

▶ Stylistic Sets 5 – 10 (ss05 – ss10) • Additional swashes and stylistic alternates

a a b b c d d d d e e e e e f g g h h i k k l m
n n n n o o r s s s s t t t t t t u v w y y & @ @

▶ Small caps (smcp, c2sc)

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

0 1 2 3 4 5 6 7 8 9

Included OpenType Features

◆ Standard ligatures (liga)

Dr. Esq. H^t. Jr. L^{td} M^{lle}. M^{me} Mr. Mrs. M^s. N^o. Sig. Sr. S^{ra}. S^{ta}. S^t.
fi fl ffi ff gg ll pf pp Zappino

◆ Discretionary ligatures (dlig)

C^{ie} C^o M^e Th % 00 25 50 75 100
di de dr e. es es ex ez ff fl fl fl ft ft ge gg gr gg is to ll ll nd ng
of ou pf ph ph pp rd ri rt sh sh sp ss ss st st th the th tt tt tz uz wh wn

Included OpenType Features

- ▶ Old style numerals (onum) • Ordinals (ordn)

0 1 2 3 4 5 6 7 8 9

1^a 2^o 0th 1st 2nd 3rd 4th 5th 6th 7th 8th 9th

-
- ▶ Superiors (sups), Numerators (numr) • Fractions (frac) • Subscripts (subs), Denominator (dnom) • Inferiors (sinf)

a b c d e f g h i j k l m n o p q r s t u v w x y z ß

1 2 3 4 5 6 7 8 9 0 / 1 2 3 4 5 6 7 8 9 0

-
- ▶ Also included: Capital spacing (csp) • Localized forms (locl) • Composition/Decomposition (ccmp) • All alternates (aalt) • Contextual ligatures (clig) • Contextual alternates (calt)

Included OpenType Features

► Ornaments (ornm)

