

作りましょう 0.10

パラメタ方式フォントファミリ
校とプリティプリントのソース

Tsukurimashou 0.10

Parametric Font Family
Proofs and pretty-printed
source code

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Proofs and pretty-printed source code for Tsukurimashou
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Volume IV

U+0000 to U+0FFF

tsuku-00.mp

00

tsuku-01.mp

01

tsuku-02.mp

02

tsuku-03.mp

03

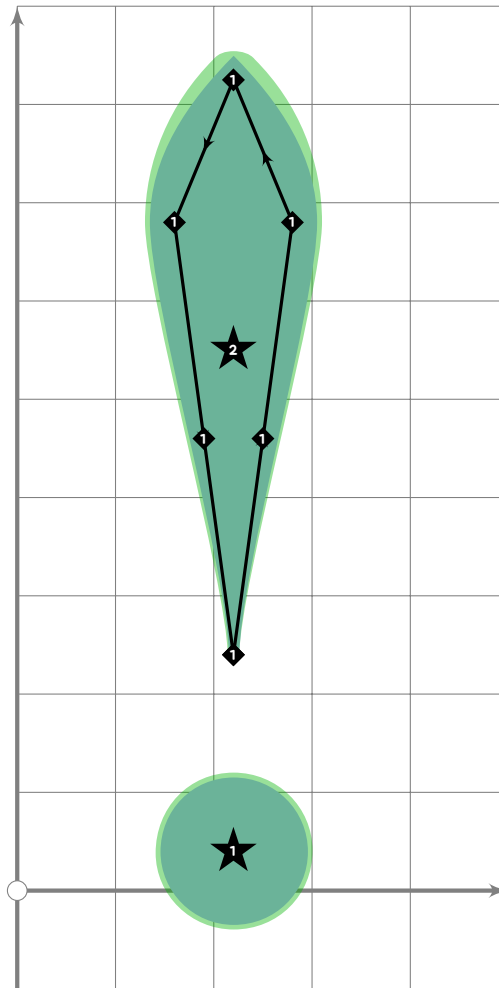
tsuku-00.mp

00

```
1 %
2 % Unicode page 00 (ASCII/ISO Latin-1) for Tsukurimashou
3 % Copyright (C) 2011, 2012, 2013 Matthew Skala
4 %
5-29 [Standard copyright notice]
30
31 _____
32
33 beginfont
34
35 input latin-intro.mp;
36
37 % AUTODEPS
38 input accent.mp;
39 input latin.mp;
40 input numerals.mp;
41 input punct.mp;
42
43 do_late_includes;
44
45 _____
46
47 transform ascii_punct_xf;
48 if is_proportional:
49   ascii_punct_xf:=identity scaled (1.7*tsu_punct_size) shifted centre_pt;
50 else:
51   ascii_punct_xf:=
52     identity scaled (1.1*tsu_punct_size) shifted (250,latin_vcentre);
53 fi;
54
55 _____
56
```

Ascii

```
57 % ASCII
58
59 % WARNING this code is substantially duplicated in tsuku-ff; just
60 % enough differences to make sharing impractical
61
62 % exclamation point
63 tsu_rescale_native_narrow;
```



```

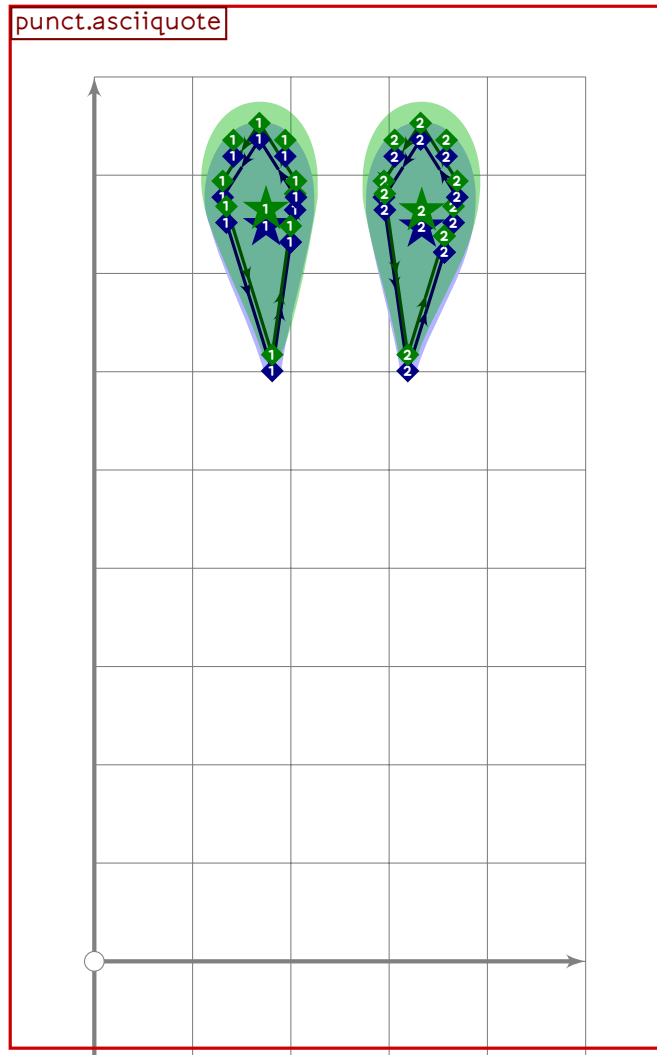
64 begint Suglyph("exclam";33);
65   if tsu_brush_max.brpunct>=(tsu_punct_size/200):
66     push_lcblob(fullcircle
67       xscaled (tsu_punct_size+tsu_brush_max.brpunct*100)
68       yscaled (tsu_punct_size+tsu_brush_max.brpunct*100
69         *tsu_brush_shape.brpunct)
70       rotated tsu_brush_angle.brpunct
71       shifted (220,40));
72   else:
73     push_stroke(fullcircle scaled tsu_punct_size shifted (220,40),
74       (2,2)-(2,2)-(2,2)-(2,2)-cycle);
75     set_bobrush(0,brpunct);
76     push_lcblob(get_stroke(0));
77   fi;
78
79   push_stroke((220,240){up}..(280,680){up}..{curl 1}(220,825){curl 1}..
80     (160,680){down}..{down}(220,240),
81     (1,1)-(2,2)-(2,2)-(2,2)-(1,1));
82   set_bobrush(0,brpunct);
83
84   if tsu_brush_max.brpunct>=0.3:

```

```

85     push_lcblob((subpath (0,1,3,9) of get_strokep(0))-cycle);
86     fi;
87
88     tsu_render;
89 endtsuglyph;
90 tsu_rescale_half;
91

```



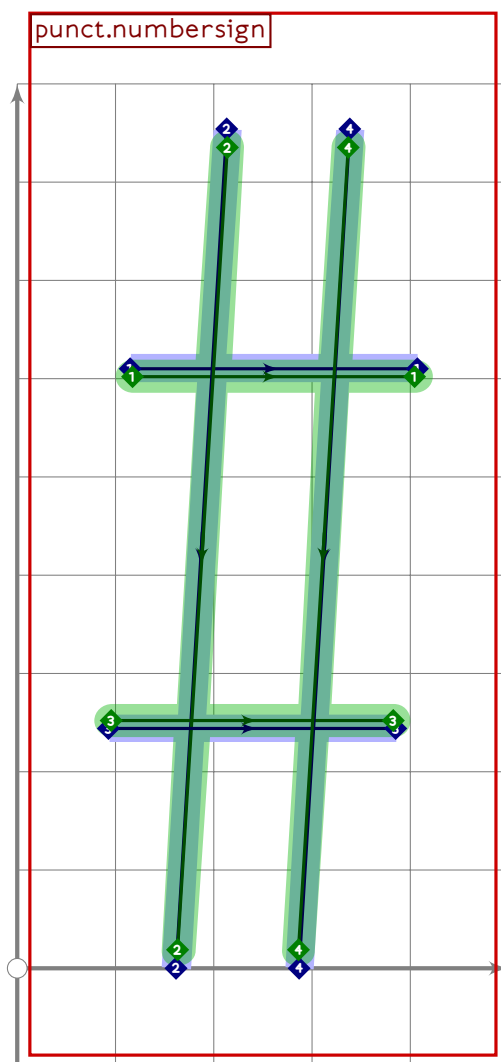
```

92 % ASCII (neither left nor right) quotation mark
93 begint Suglyph("quotedbl",34);
94     punct.asciiquote;
95     tsu_render;
96 endtsuglyph;
97

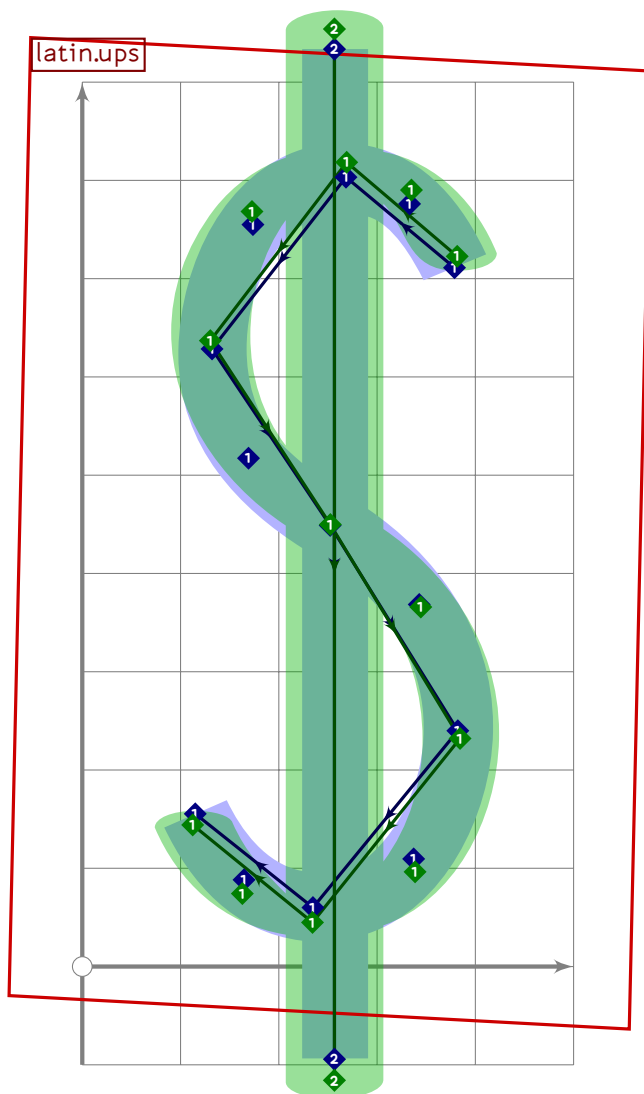
```


U+0023
tsuku.numbersign

00



```
98 % number sign
99 begintsuglyph("numbersign";35);
100 punct.numbersign;
101 tsu_render;
102 endtsuglyph;
103
```



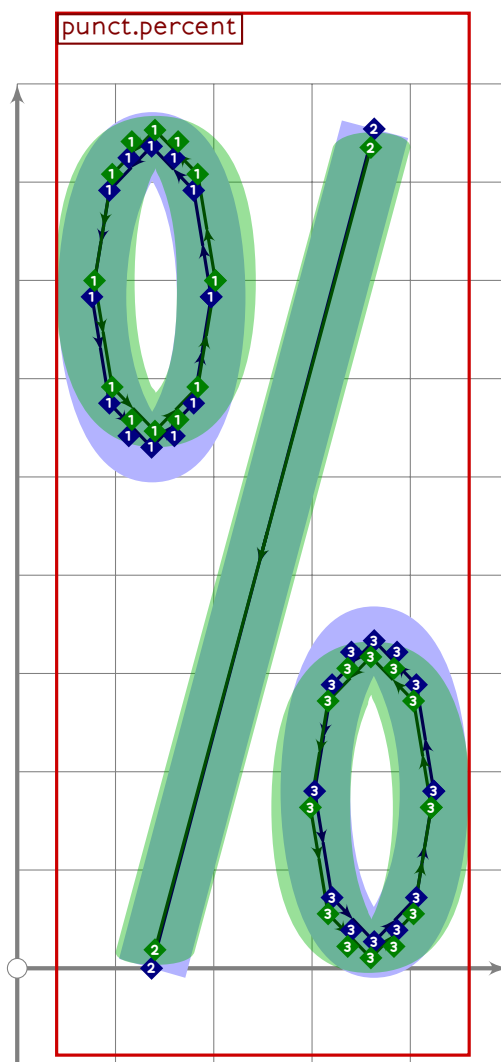
```

104 % dollar sign
105 beginsuglyph("dollar";36);
106   tsu_xform(identity shifted -centre_pt
107     rotated -2 xyscaled (1.06,0.92) shifted centre_pt)(latin.ups);
108
109   numeric x[],y[];
110   x1=x2=0.53[xpart llcorner get_strokep(0),xpart lrcorner get_strokep(0)];
111   y1=1.12[latin_wide_low_r,latin_wide_high_r];
112   y2=(-0.15)[latin_wide_low_r,latin_wide_high_r];
113
114   push_stroke(z1-z2,(2,2)-(2,2));
115   set_bosize(0,90);
116
117   tsu_render;
118   endtsuglyph;
119

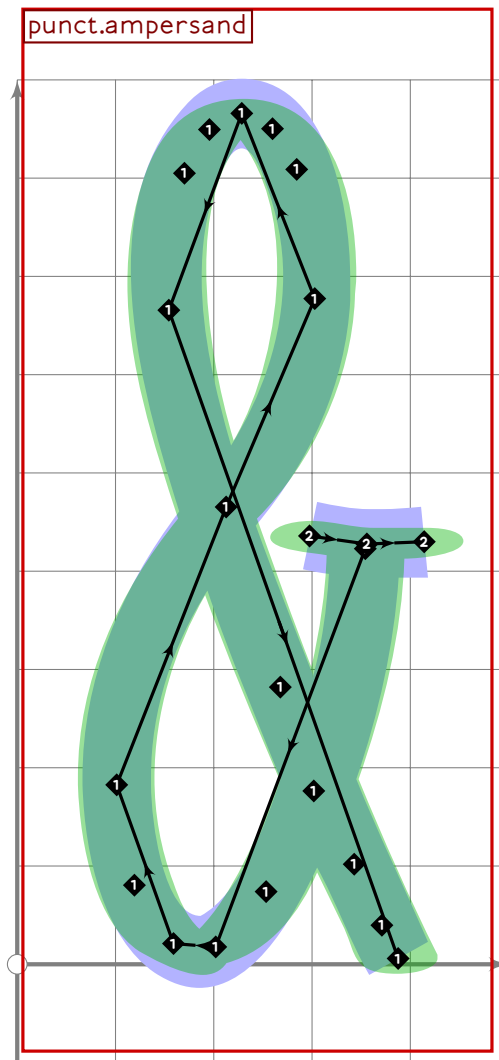
```

U+0025
tsuku.percent

00



```
120 % percent
121 begintsuglyph("percent";37);
122   punct.percent;
123   tsu_render;
124 endtsuglyph;
125
```



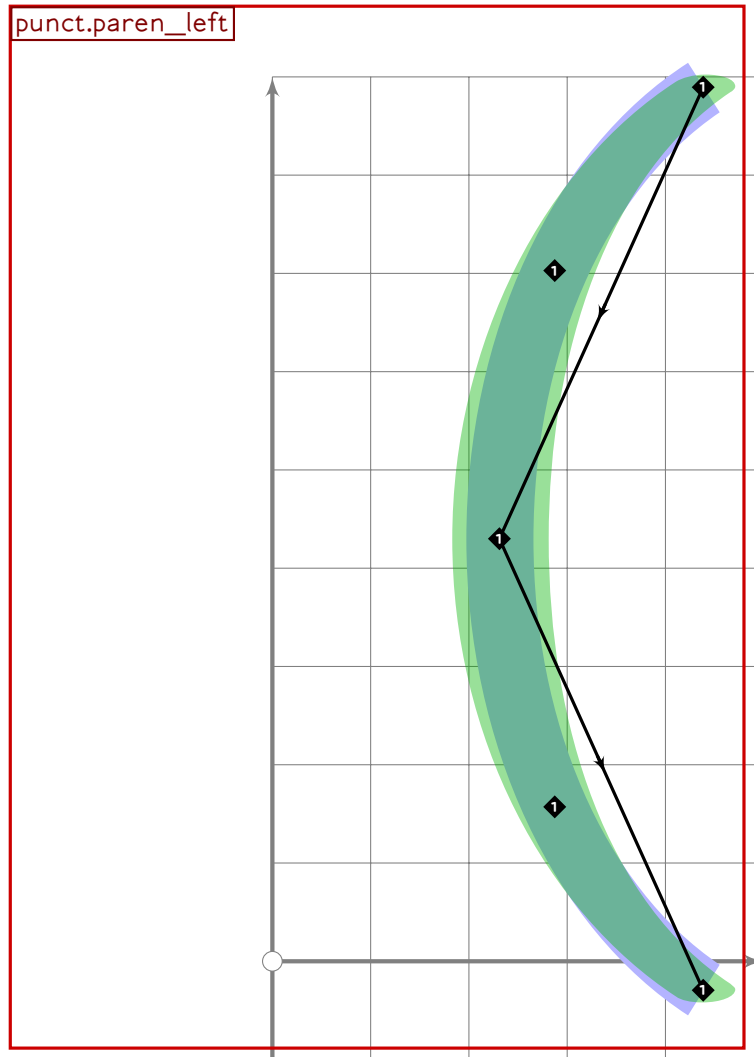
```
126 % ampersand
127 begintsuglyph("ampersand";38);
128   punct.ampersand;
129   tsu_render;
130 endtsuglyph;
131
```

U+0027
tsuku.quotesingle

00



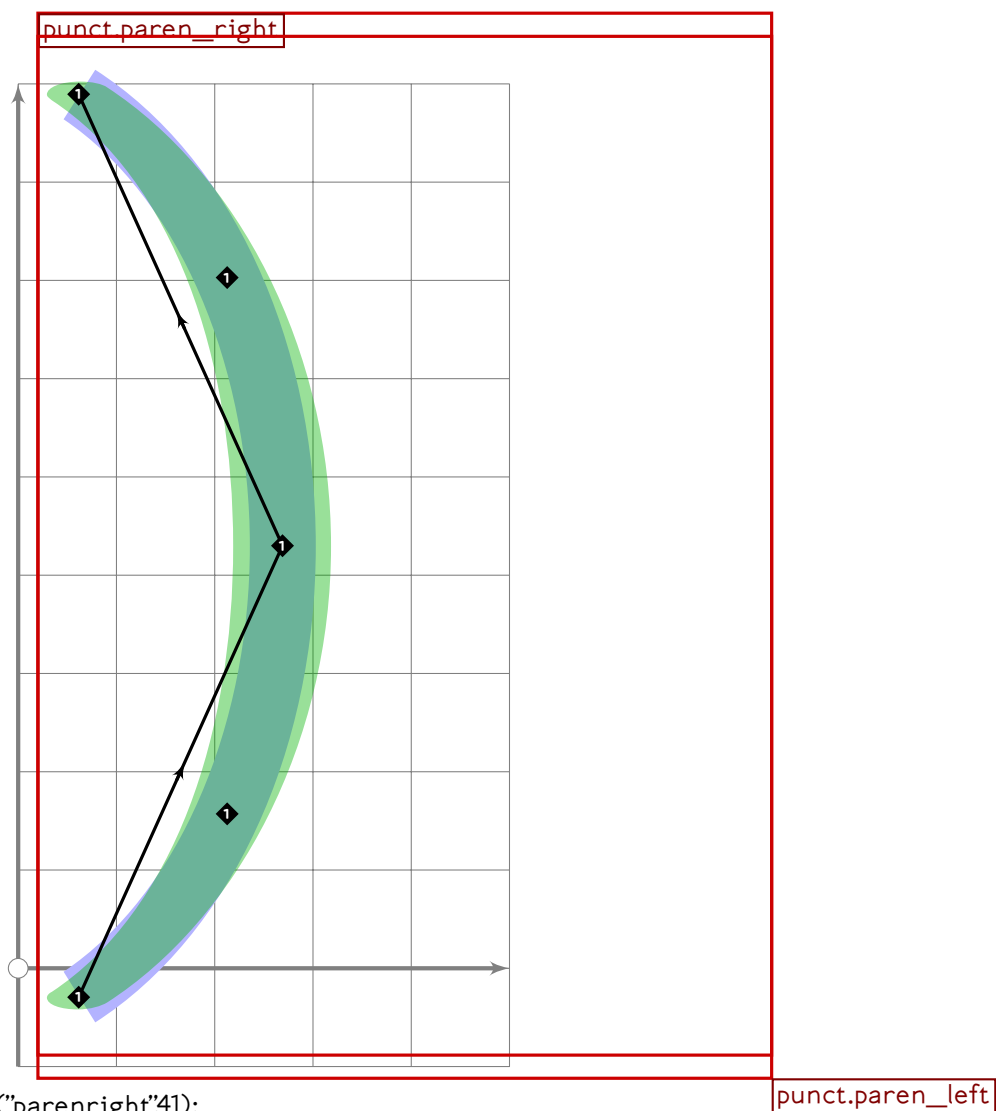
```
132 % apostrophe
133 beginsuglyph("quotesingle";39);
134   punct.make_comma((480,vmetric(0.94)),0);
135   tsu_render;
136 endsuglyph;
137
```



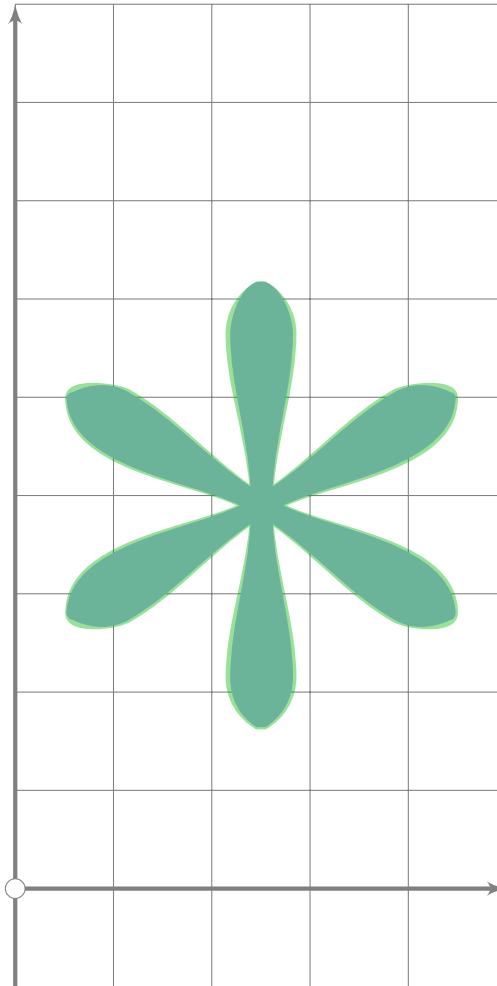
```
138 % left and right parentheses
139 beginsuglyph("parenleft",40);
140 punct.paren_left;
141 tsu_render;
142 endsuglyph;
```

U+0029
tsuku.parenright

00



```
143 begint Suglyph("parenright";41);
144   punct.paren_right;
145   tsu_render;
146 endtsuglyph;
147
148 % WARNING changing rescale setting
149 tsu_rescale_native_conditional;
150
```



```

151 % asterisk
152 begintsuglyph("asterisk",42);
153   begingroup
154     save lobe,glyph,nlobes;
155     path lobe,glyph;
156     numeric nlobes;
157
158     lobe:=(1,0){up}..((1+tsu_brush_max.brpunct)*tsu_punct_size/8,140){up}
159       ..{curl 1}{0,175}{curl 1}
160       ..(-(1+tsu_brush_max.brpunct)*tsu_punct_size/8,140){down};
161     if rescale_slant>50:
162       lobe:=(lobe..(-1,0){down}..(0,-1)..cycle) scaled (tsu_punct_size/70);
163       nlobes:=5;
164     else:
165       lobe:=(lobe..(lobe rotated 180)..cycle) scaled (tsu_punct_size/80);
166       nlobes:=3;
167     fi;
168
169     default_nib:=fix_nib(35*tsu_brush_max.brpunct,
170       35*tsu_brush_max.brpunct*tsu_brush_shape.brpunct,
171       tsu_brush_angle.brpunct);

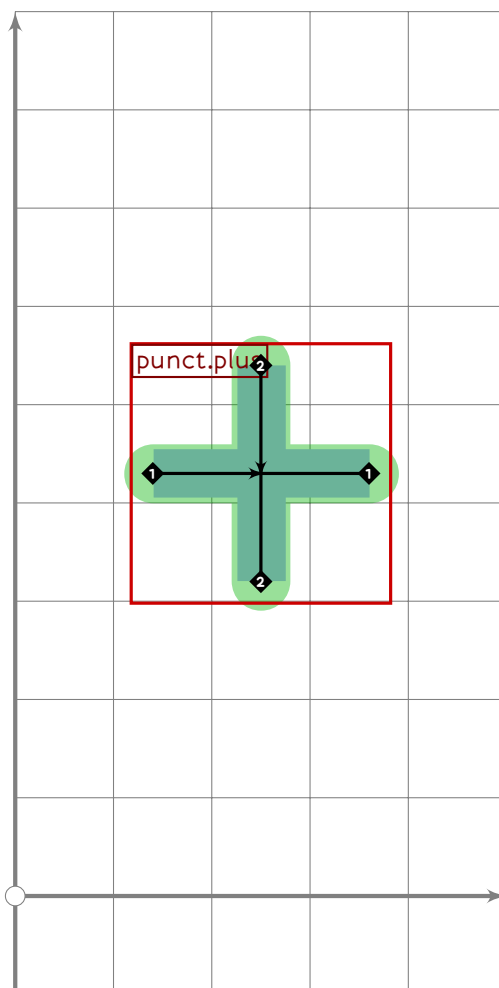
```



```

172
173   for i:=0 upto nlobes-1:
174       pen_stroke()(lobe rotated (i*360/nlobes)
175                   shifted (centre_pt+(-250,0))) (glyph);
176       dangerousFill glyph.r;
177   endfor;
178 endgroup;
179 endtsuglyph;
180

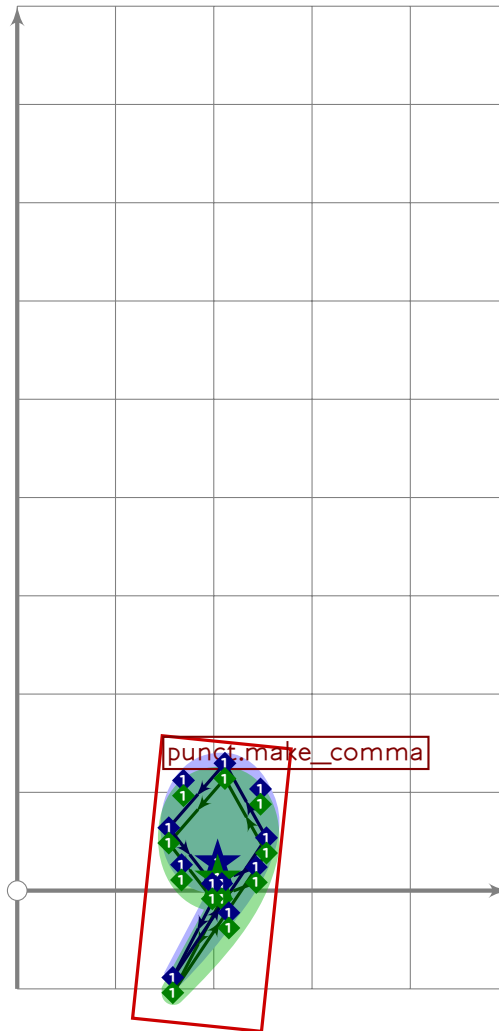
```



```

181 % plus
182 begint Suglyph("plus";43);
183   punct.plus(ascii_punct_xf);
184   tsu_render;
185 endtsuglyph;
186
187 % WARNING changing rescale setting
188 tsu_rescale_half;
189

```



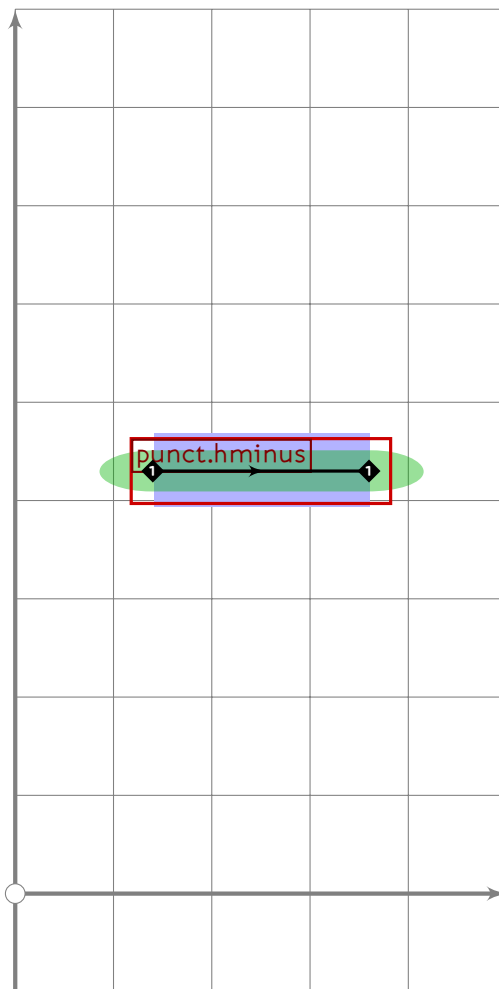
```

190 % comma
191 begint Suglyph('comma',44);
192   punct.make_comma((380,vmetric(0.03)),0);
193   tsu_render;
194 endtsuglyph;
195
196 % hyphen-minus
197 tsu_rescale_native_conditional;

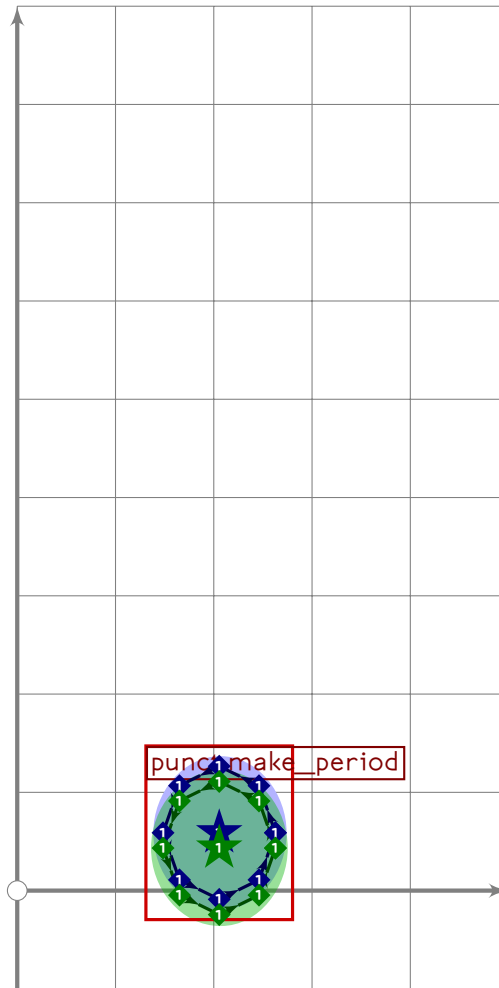
```

U+002D
tsuku.hyphen

00



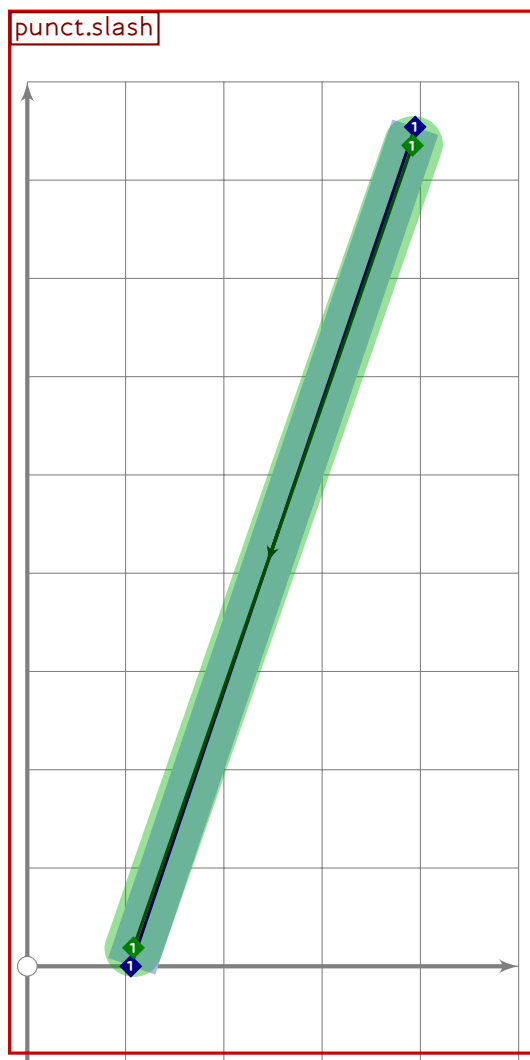
```
198 beginsuglyph("hyphen"45);
199   punct.hminus(ascii_punct_xf);
200   tsu_render;
201 endtsuglyph;
202 tsu_rescale_half;
203
```



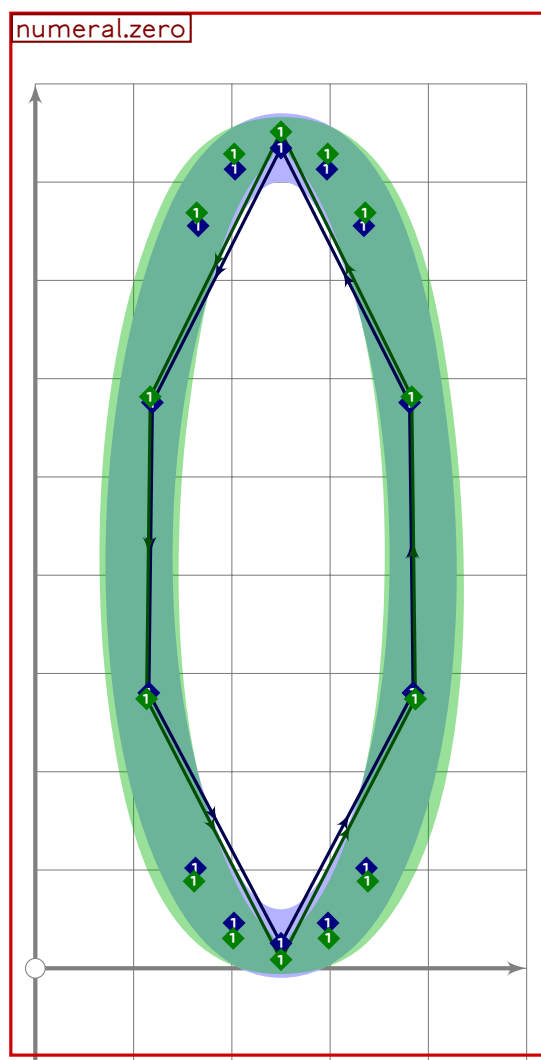
```
204 % period
205 beginsuglyph("period";46);
206 punct.make_period((380,vmetric(0.03)));
207 tsu_render;
208 endsuglyph;
209
```

U+002F
tsuku.slash

00



```
210 % slash
211 begint Suglyph('slash';47);
212   punct.slash;
213   tsu_render;
214 endtsuglyph;
215
```



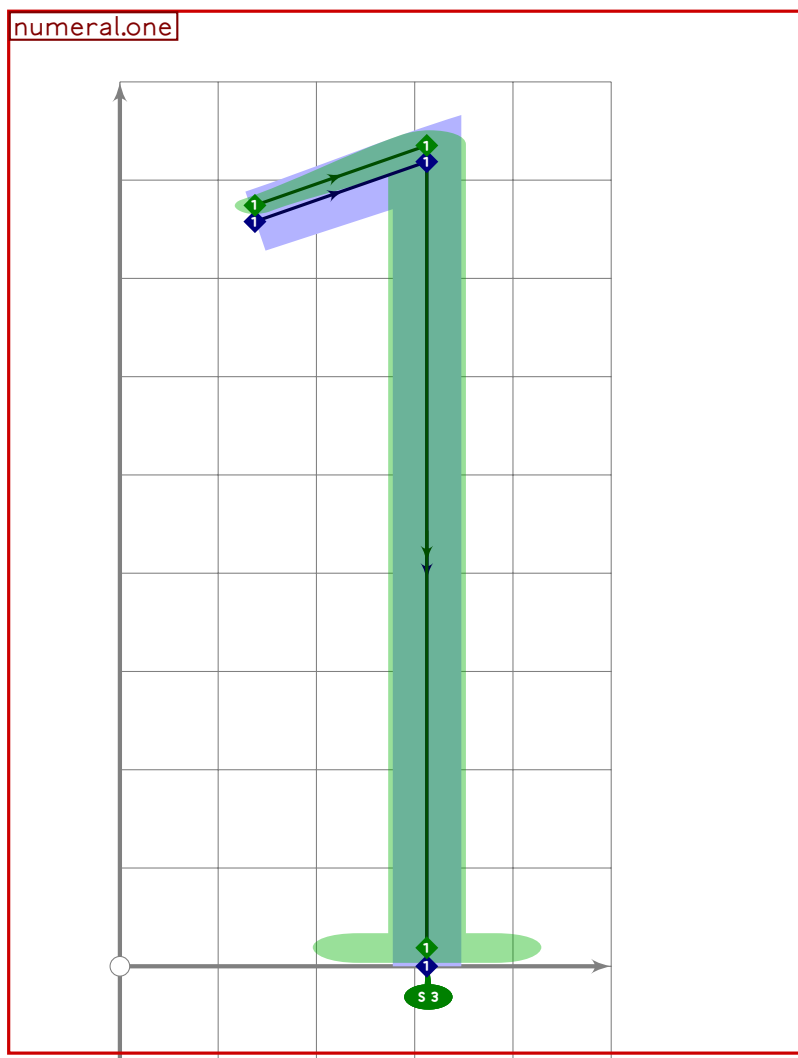
```

216 % 0
217 begintsuglyph("zero",48);
218   numeral.zero;
219   tsu_render;
220 endtsuglyph;
221

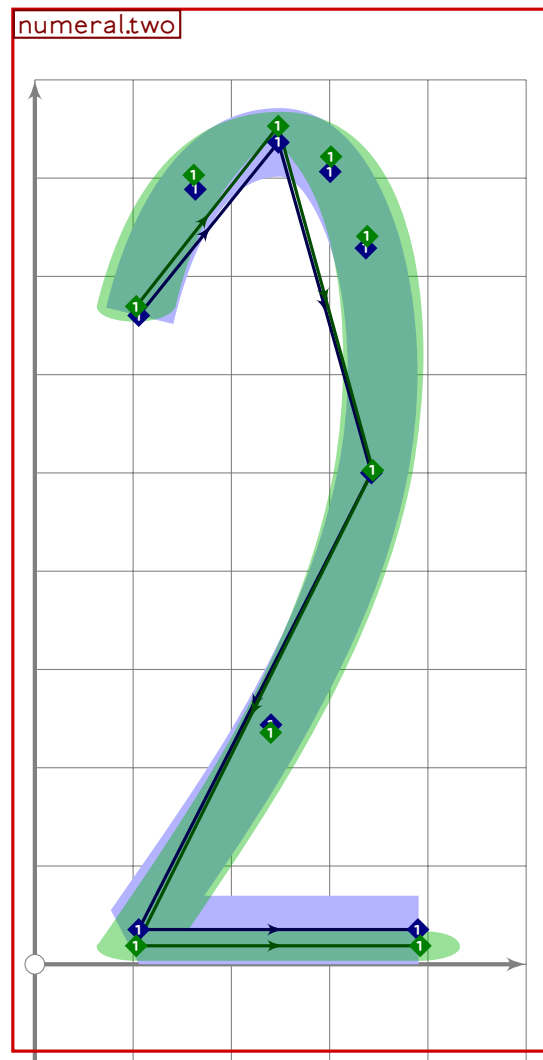
```

U+0031
tsuku.one

00



```
222 % 1
223 beginsuglyph('one';49);
224  numeral.one;
225  tsu_render;
226 endsuglyph;
227
```



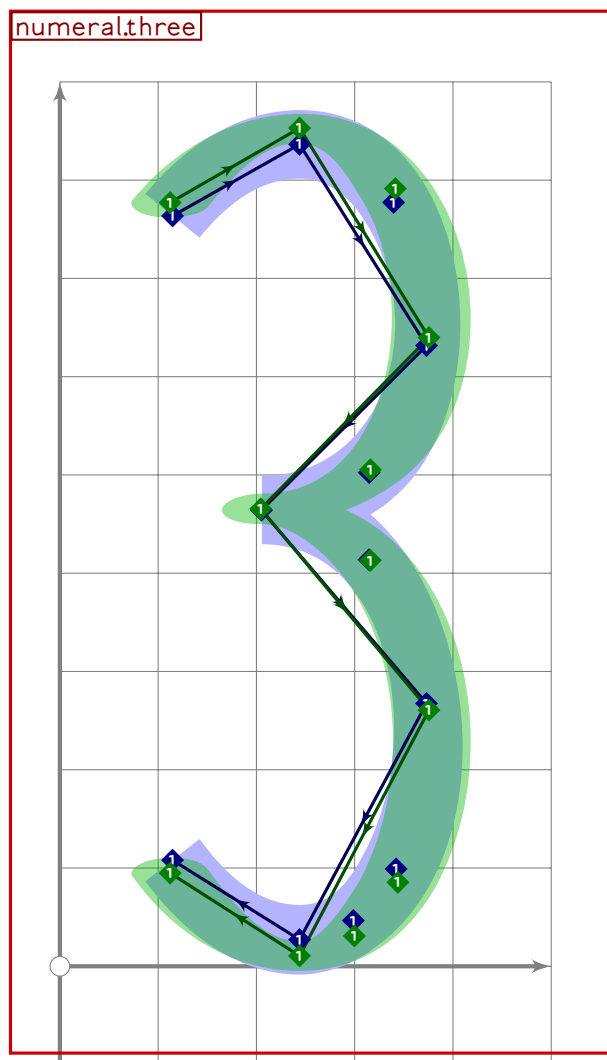
```

228 % 2
229 beginsuglyph("two";50);
230  numeral.two;
231  tsu_render;
232 endtsuglyph;
233

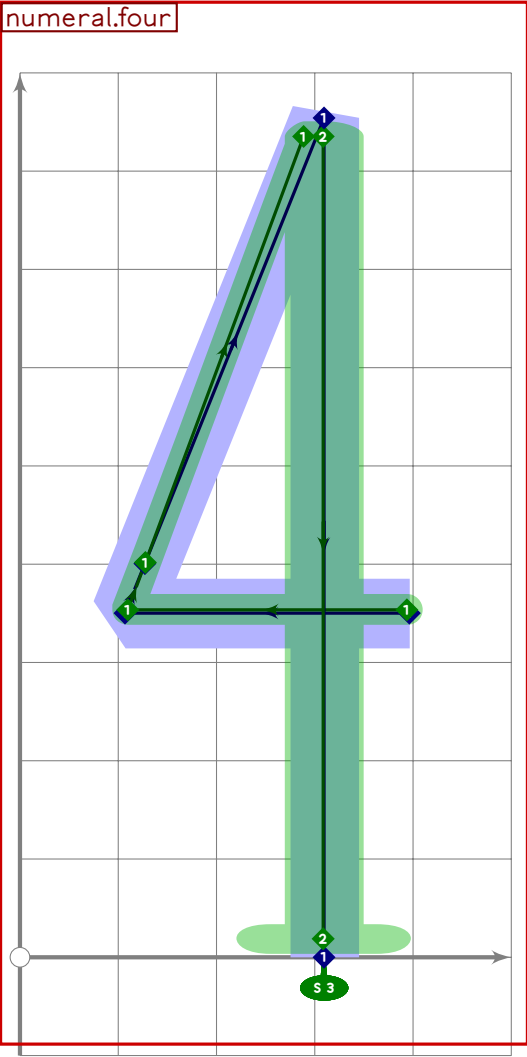
```


U+0033
tsuku.three

00



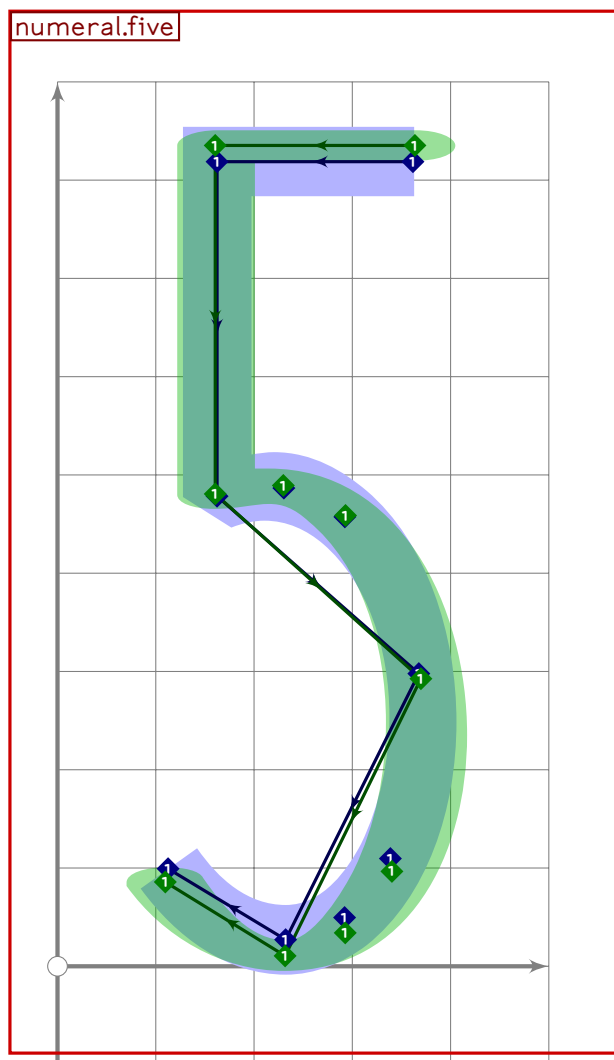
```
234 % 3
235 beginsuglyph("three",51);
236   numeral.three;
237   tsu_render;
238 endsuglyph;
239
```



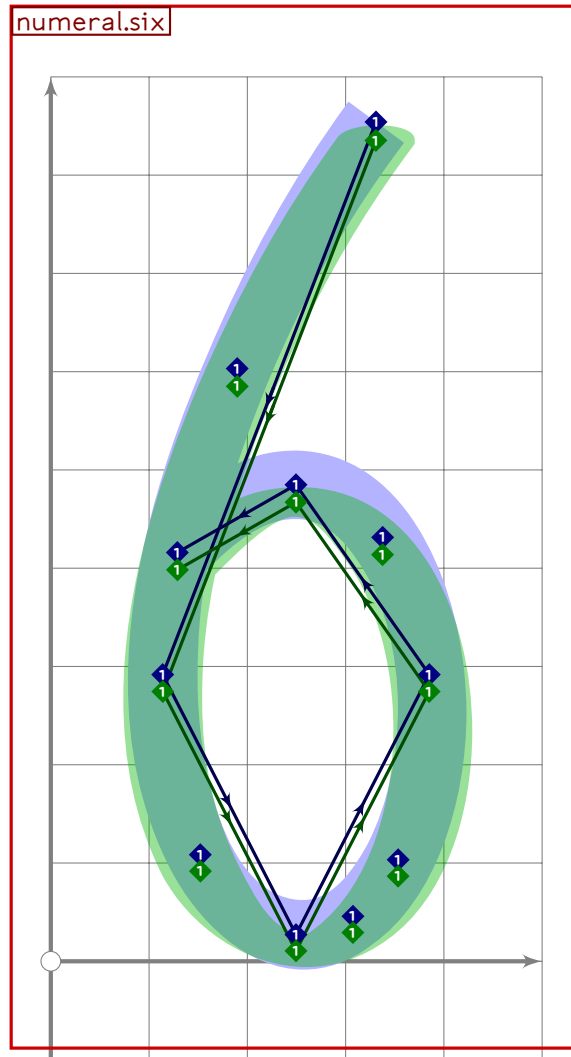
```
240 % 4
241 begintsuglyph("four",52);
242   numeral.four;
243   tsu_render;
244 endtsuglyph;
245
```

U+0035
tsuku.five

00



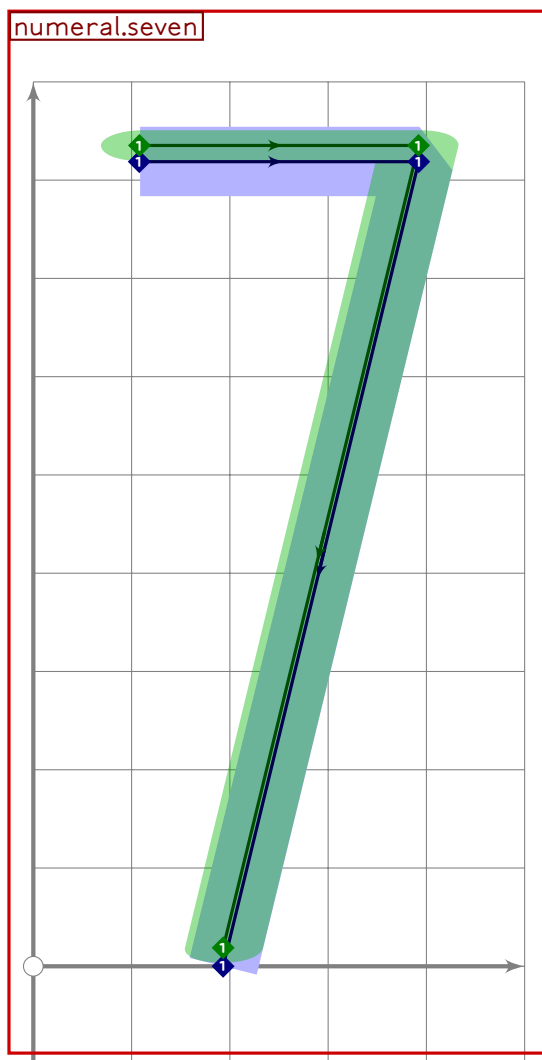
```
246 % 5
247 beginsuglyph("five";53);
248     numeral.five;
249     tsu_render;
250 endsuglyph;
251
```



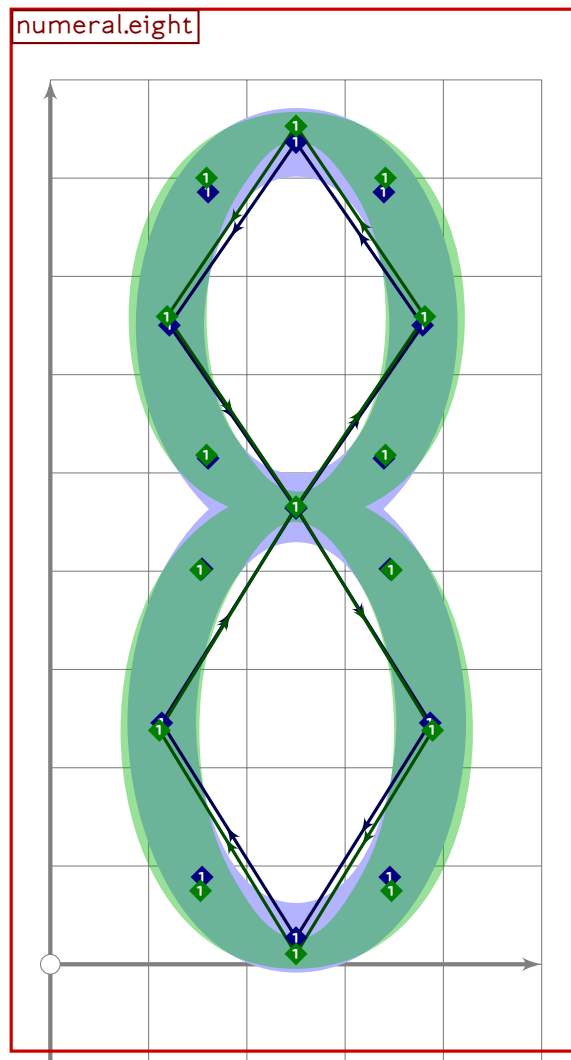
```
252 % 6
253 begintsuglyph('six',54);
254   numeral.six;
255   tsu_render;
256 endtsuglyph;
257
```

U+0037
tsuku.seven

00



```
258 % 7
259 begintsuglyph("seven",55);
260 numeral.seven;
261 tsu_render;
262 endtsuglyph;
263
```



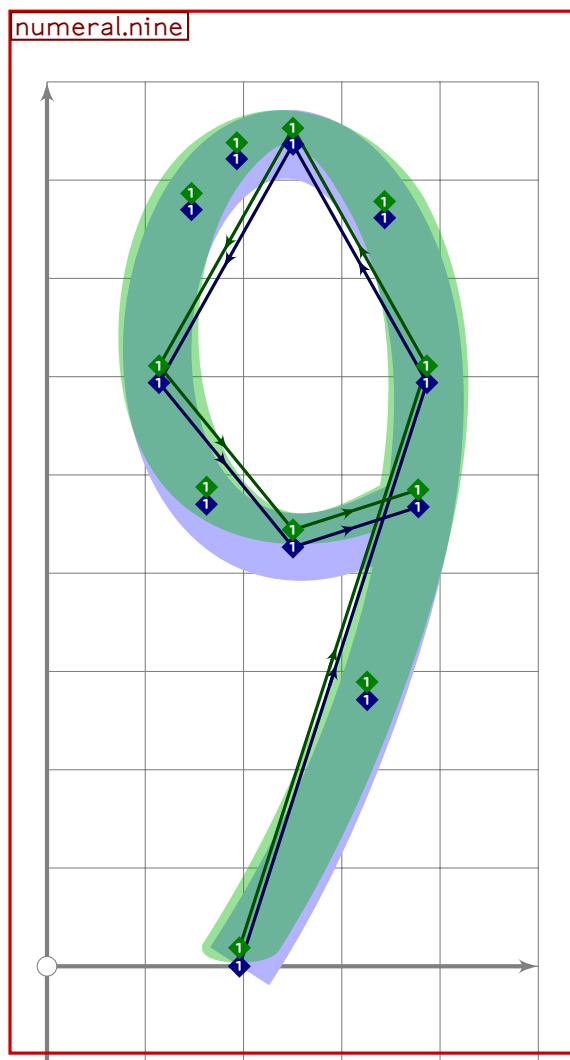
```

264 % 8
265 begintsuglyph('eight';56);
266   numera.eight;
267   tsu_render;
268 endtsuglyph;
269

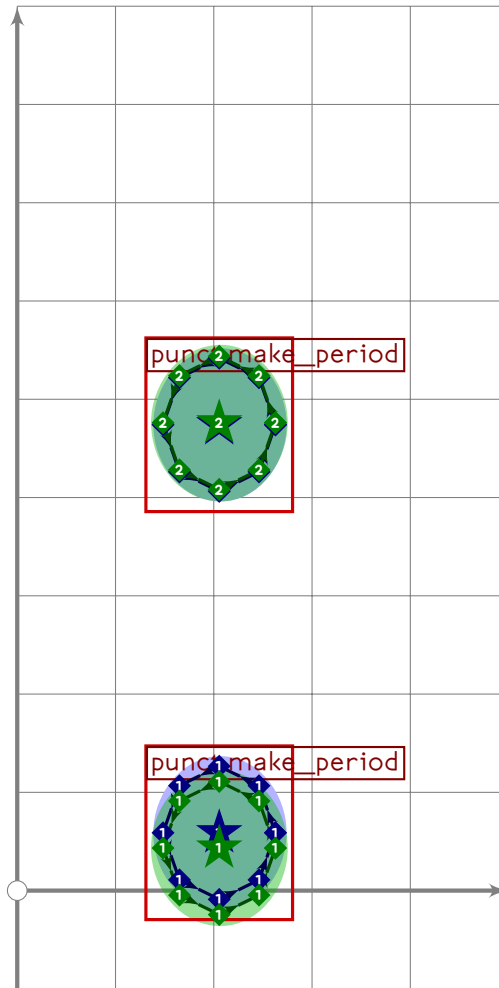
```

U+0039
tsuku.nine

00



```
270 % 9
271 begintsuglyph("nine",57);
272   numeral.nine;
273   tsu_render;
274 endtsuglyph;
275
```



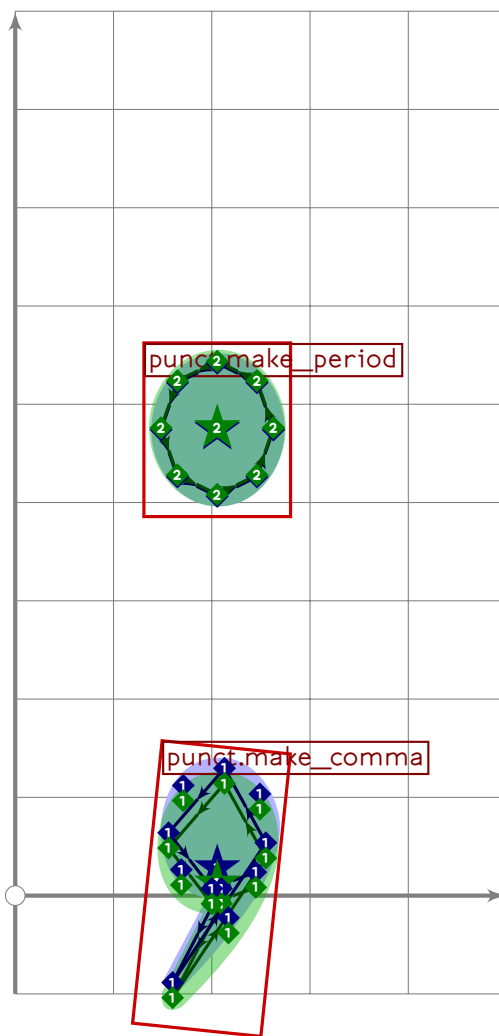
```

276 % colon
277 beginsuglyph("colon";58);
278 punct.make_period((380,vmetric(0.03)));
279 punct.make_period((380,vmetric(0.56)));
280 tsu_render;
281 endtsuglyph;
282

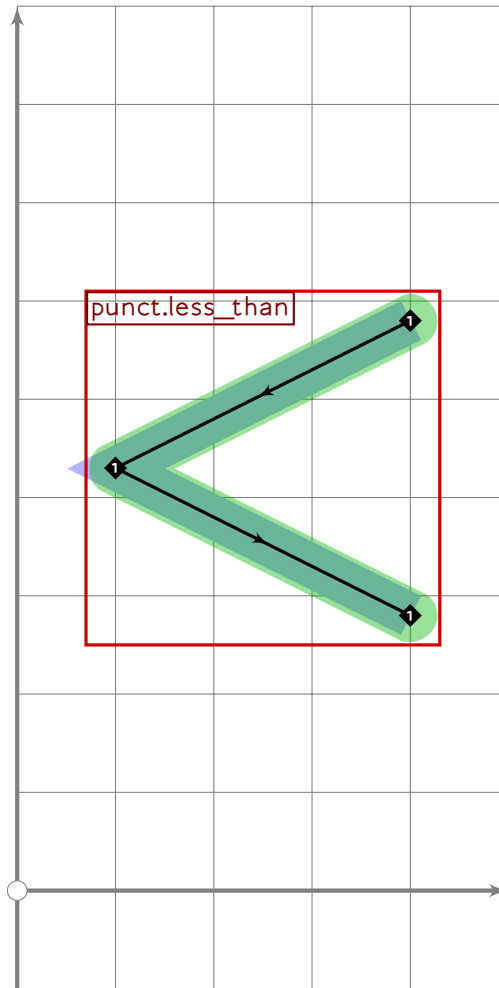
```


U+003B
tsuku.semicolon

00



```
283 % semicolon
284 begint Suglyph("semicolon";59);
285   punct.make_comma((380,vmetric(0.03)),0);
286   punct.make_period((380,vmetric(0.56)));
287   tsu_render;
288 endtsuglyph;
289
290 % WARNING, changing rescale setting
291 tsu_rescale_native_conditional;
292
```



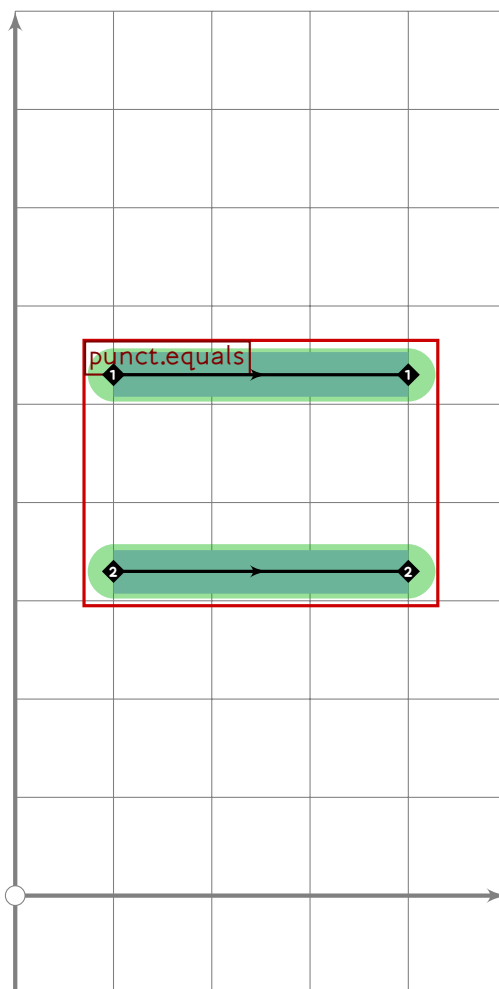
```

293 % less than
294 begintsuglyph("less",60);
295   punct.less_than
296     (identity scaled (if is_proportional: 2.1 else: 1.5 fi*tsu_punct_size)
297       shifted (250,latin_vcentre));
298   tsu_render;
299 endtsuglyph;
300

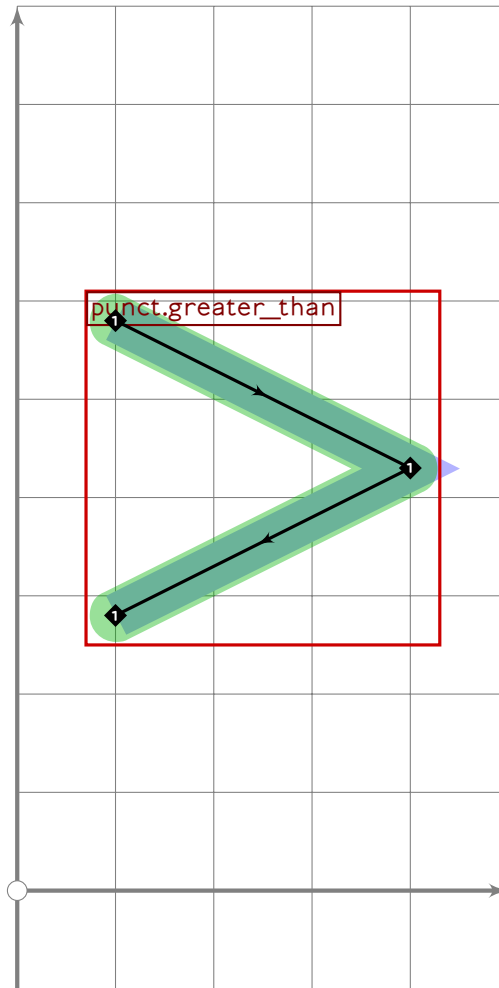
```

U+003D
tsuku.equals

00



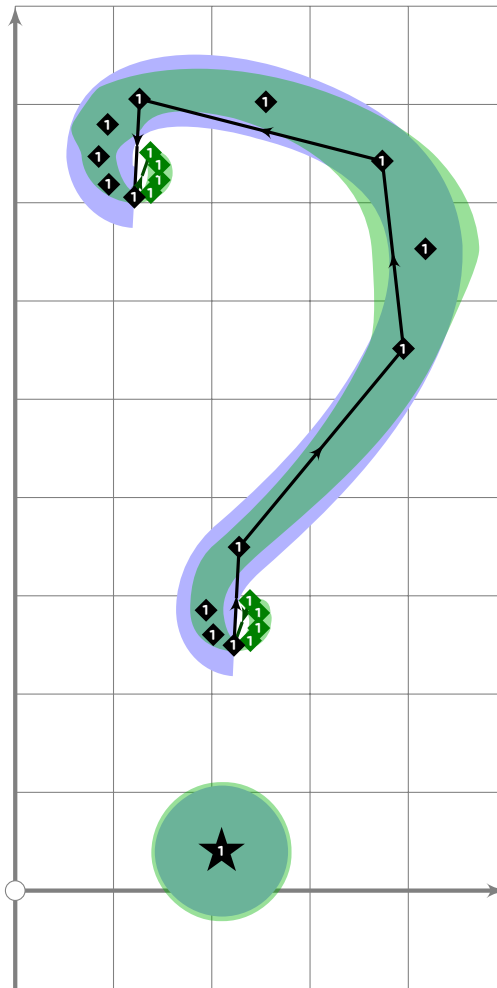
```
301 % equals
302 beginsuglyph("equals",61);
303 punct.equals
304     (identity scaled (if is_proportional: 2.1 else: 1.5 fi*tsu_punct_size)
305     shifted (250,latin_vcentre));
306 tsu_render;
307 endsuglyph;
308
```



```

309 % greater than
310 begintsuglyph("greater",62);
311   punct.greater_than
312     (identity scaled (if is_proportional: 2.1 else: 1.5 fi*tsu_punct_size)
313       shifted (250,latin_vcentre));
314   tsu_render;
315 endtsuglyph;
316

```



```

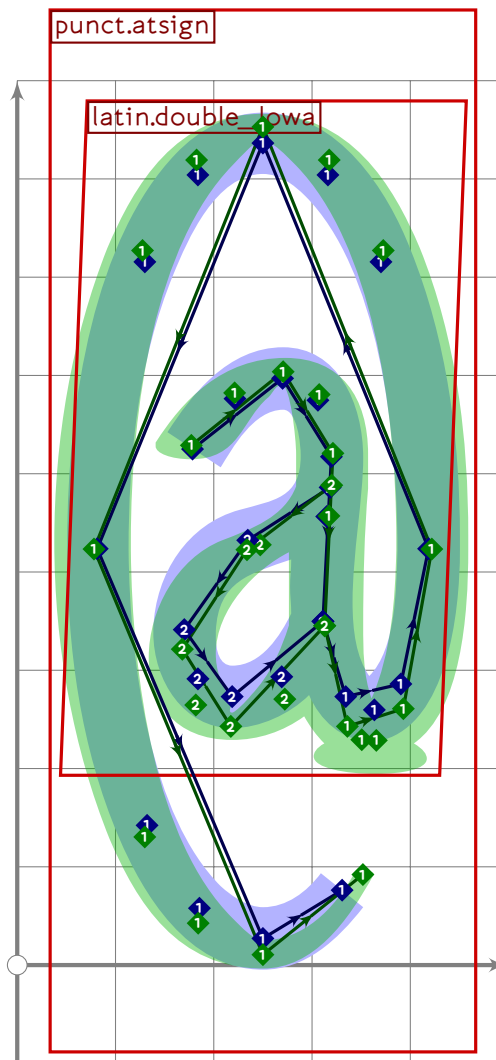
317 % question mark
318 begintsuglyph("question",63);
319     numeric r;
320     if tsu_brush_max.brpunct*100>=(tsu_punct_size*0.5):
321         push_lcblob(fullcircle
322             xscaled ((tsu_punct_size+tsu_brush_max.brpunct*100)*0.89)
323             yscaled ((tsu_punct_size+tsu_brush_max.brpunct*100*tsu_brush_shape.brpunct)*0.89)
324             rotated tsu_brush_angle.brpunct
325             shifted (210,40));
326     else:
327         push_stroke(fullcircle scaled tsu_punct_size shifted (210,40),
328             (2,2)-(2,2)-(2,2)-(2,2));
329         if tsu_brush_max.brpunct>=0.3:
330             push_lcblob(get_stroke(0));
331         fi;
332     fi;
333     r:=tsu_punct_size/2;
334
335     push_stroke((210,300){right}..(210,300-r){left}..
336         (210,300+r)..(210+2.5*r,750)..
337         tension 1.3..(210-2.5*r,750+r)..

```

```

338      (210-2.5*r,750-r){right}..
339      (210-2.5*r,750){left},
340      (0.8,0.8)-(1,1)-(2,2)-(2,2)-(2,2)-(2,2)-(1,1)-(0.8,0.8));
341      replace_strokep(0)(insert_nodes(oldp)(2.5) rotatedaround ((210,10),-3));
342
343      tsu_render;
344 endtsuglyph;
345
346 % WARNING, changing rescale setting
347 tsu_rescale_half;
348

```



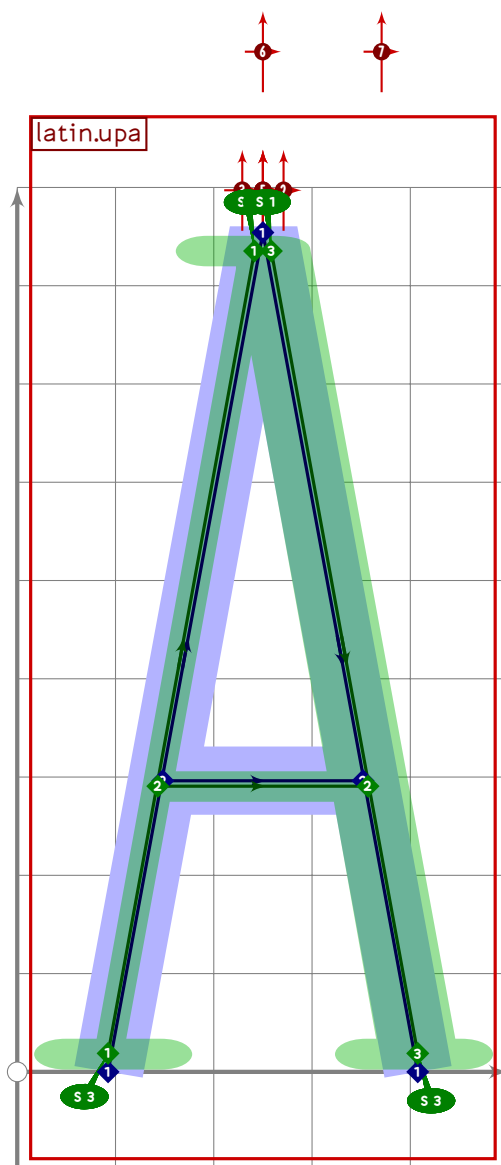
```

349 % commercial at
350 begintuglyph("at",64);
351      punct.at sign;
352      tsu_render;
353 endtsuglyph;
354
355 tsu_accent.up_default_anchors;
356

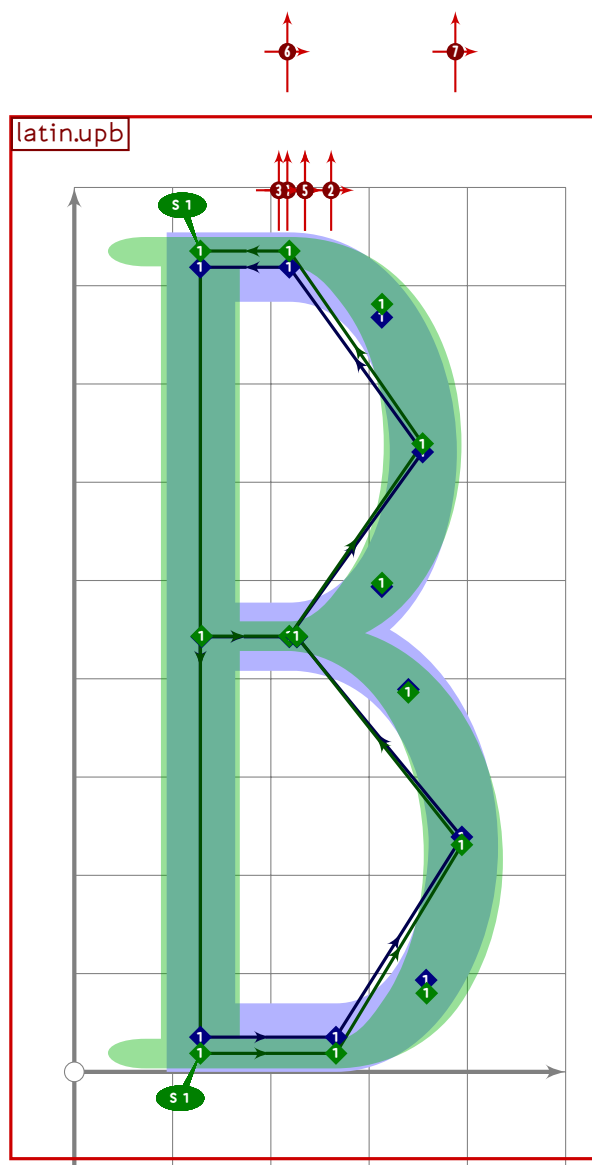
```

U+0041
tsuku.A

00



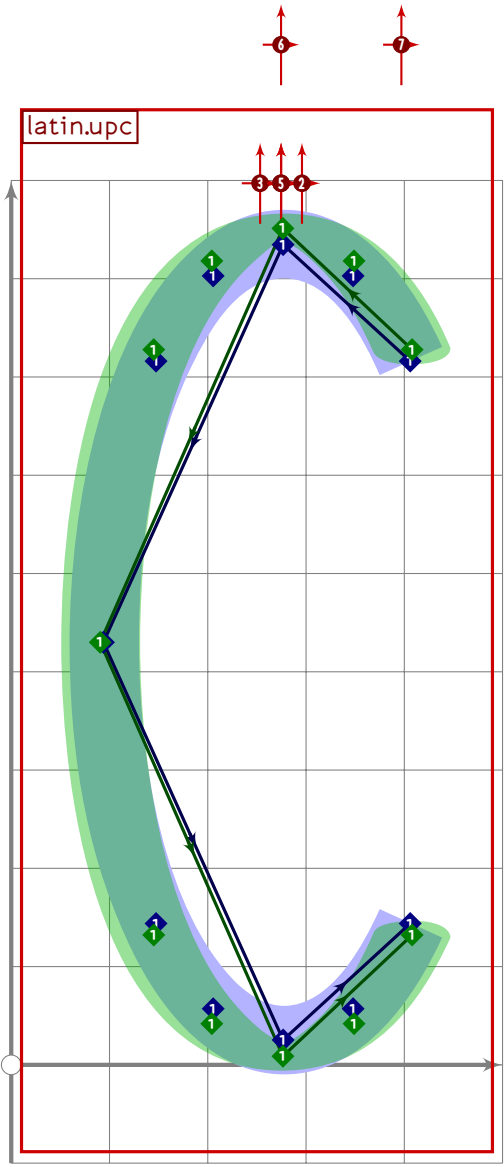
```
357 % A
358 begint Suglyph("A";65);
359 latin.upa;
360 tsu_render;
361 endtsuglyph;
362
```



```

363 % B
364 begint Suglyph("B",66);
365 latin.upb;
366 tsu_render;
367 endtsuglyph;
368

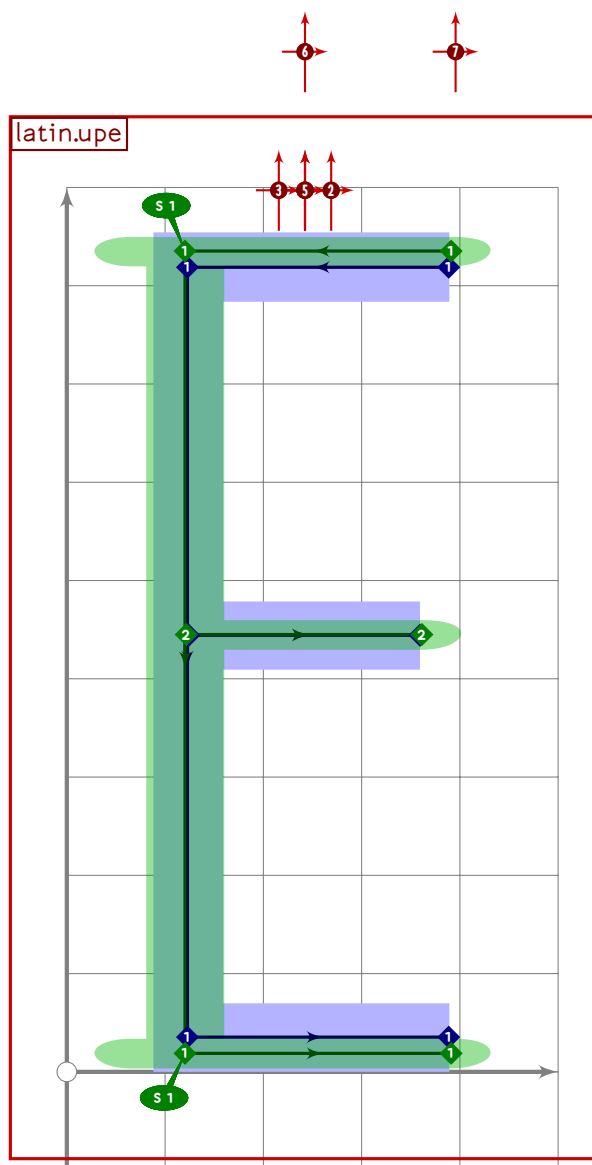
```

```
369 % C
370 begint Suglyph("C",67);
371 latin.upc;
372 tsu_render;
373 endtsuglyph;
374
```


U+0045
tsuku.E

00

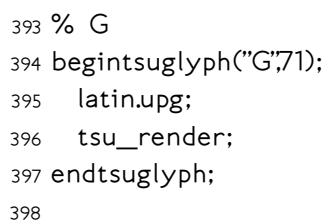


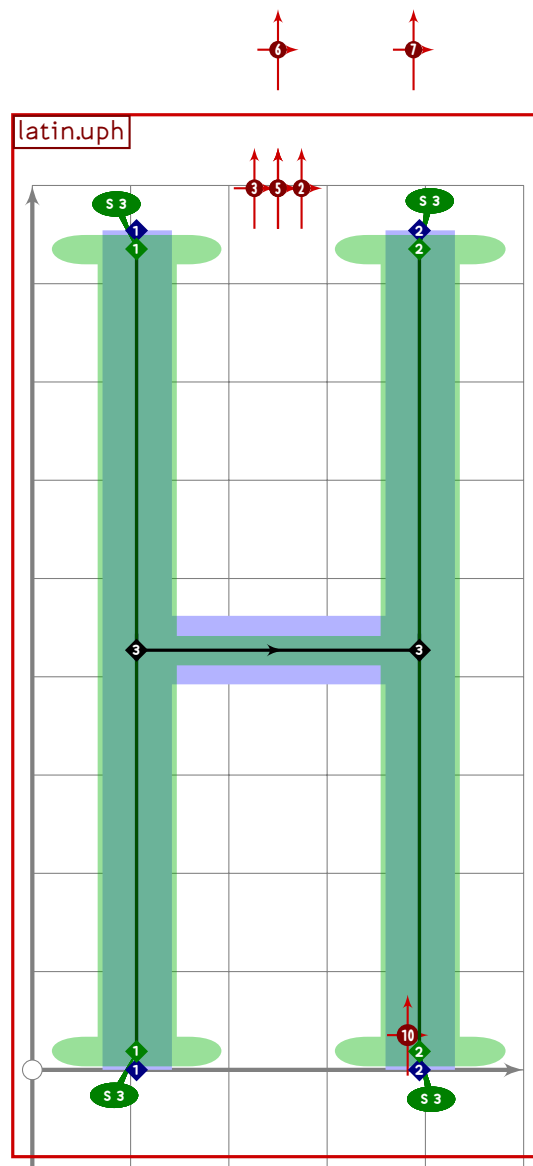
```
381 % E
382 begint Suglyph("E",69);
383   latin.upe;
384   tsu_render;
385 endtsuglyph;
386
```



1099

00





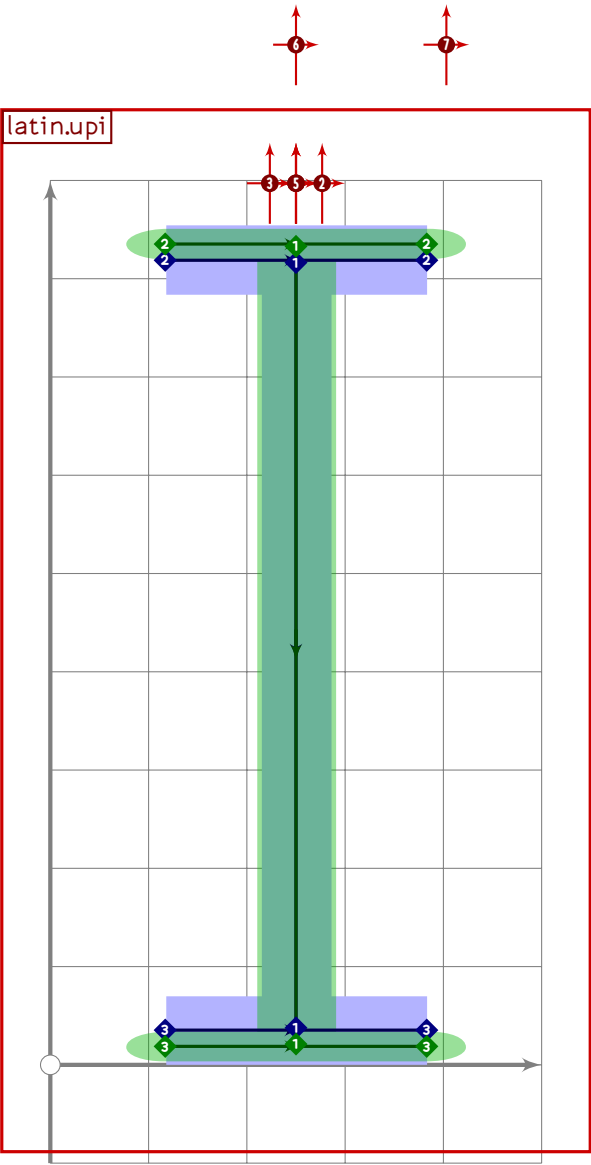
```

399 % H
400 begint Suglyph("H";72);
401   latin.uph;
402   tsu_render;
403 endtsuglyph;
404

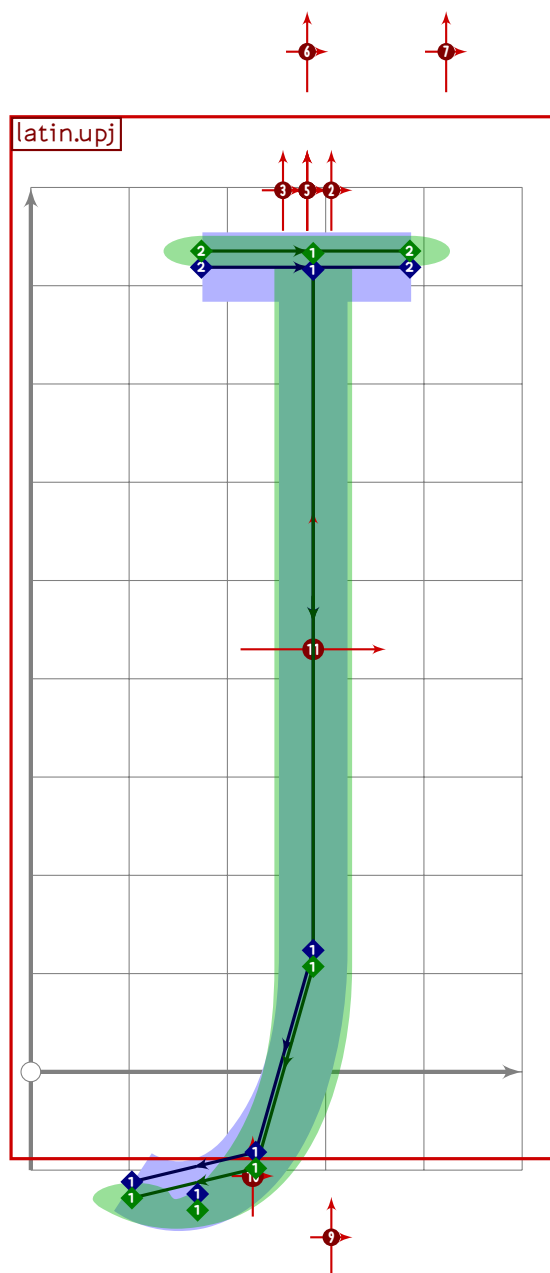
```

U+0049
tsuku.I

00



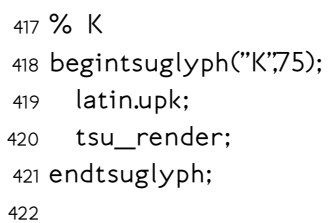
```
405 % I
406 begint Suglyph("I",73);
407   latin.upi;
408   tsu_render;
409 endtsuglyph;
410
```

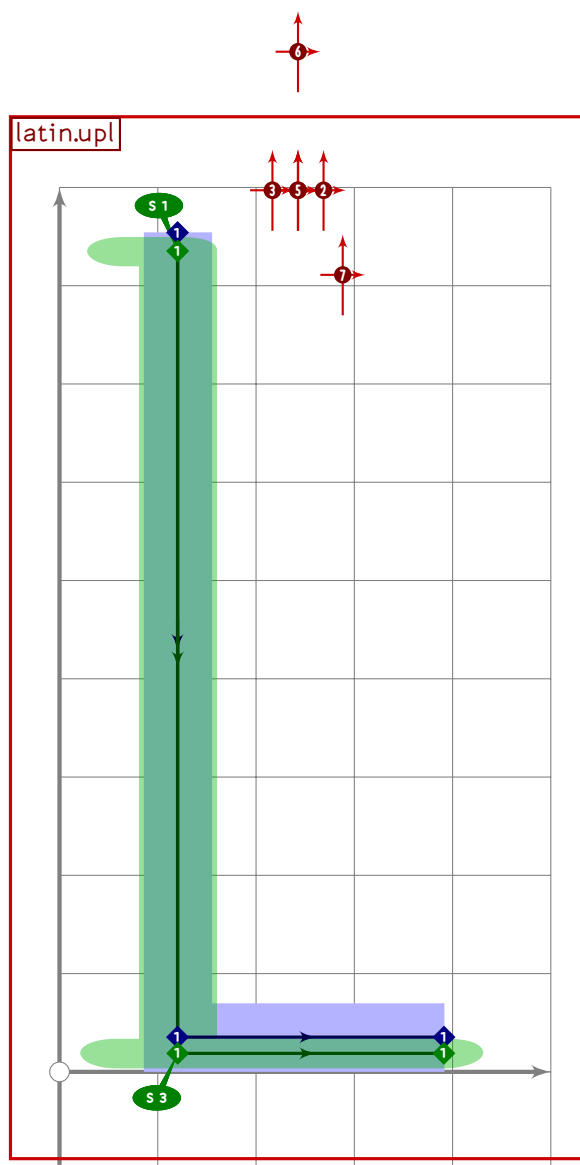


```

411 % J
412 beginsuglyph("J";74);
413 latin.upj;
414 tsu_render;
415 endtsuglyph;
416

```

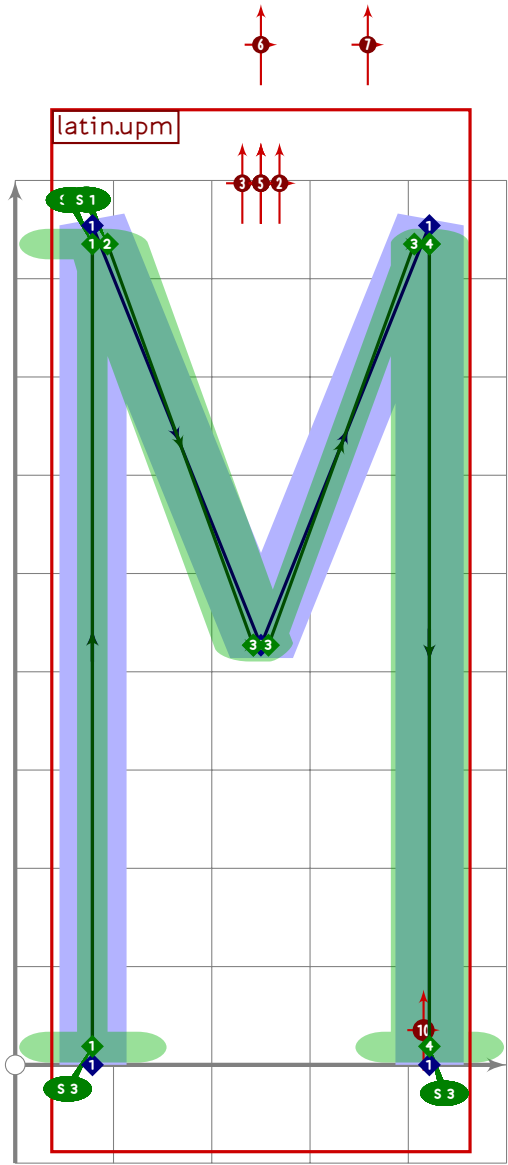





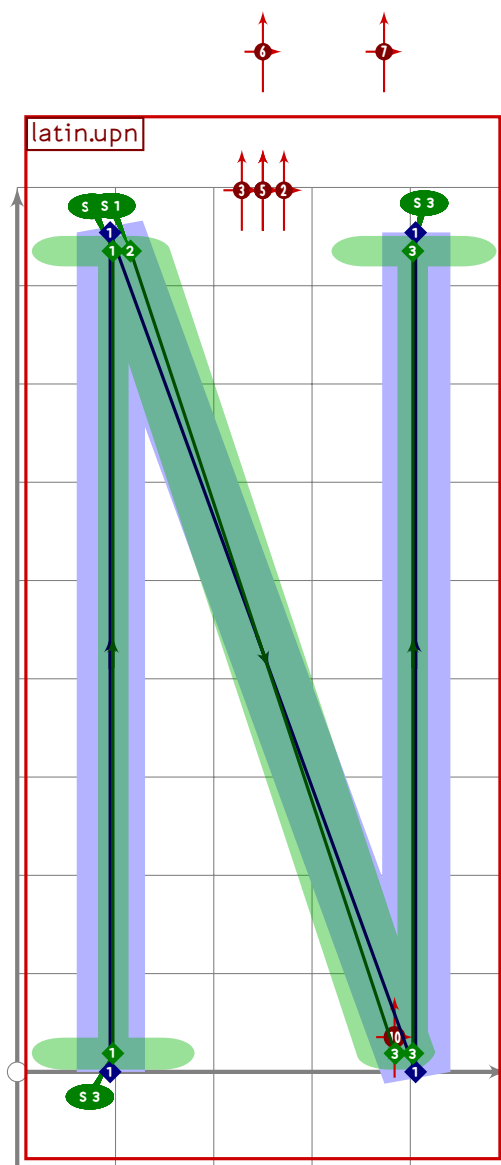
```

423 % L
424 begint Suglyph("L",76);
425   latin.upl;
426   tsu_render;
427 endtsuglyph;
428

```



```
429 % M
430 begintsuglyph("M";77);
431 latin.upm;
432 tsu_render;
433 endtsuglyph;
434
```



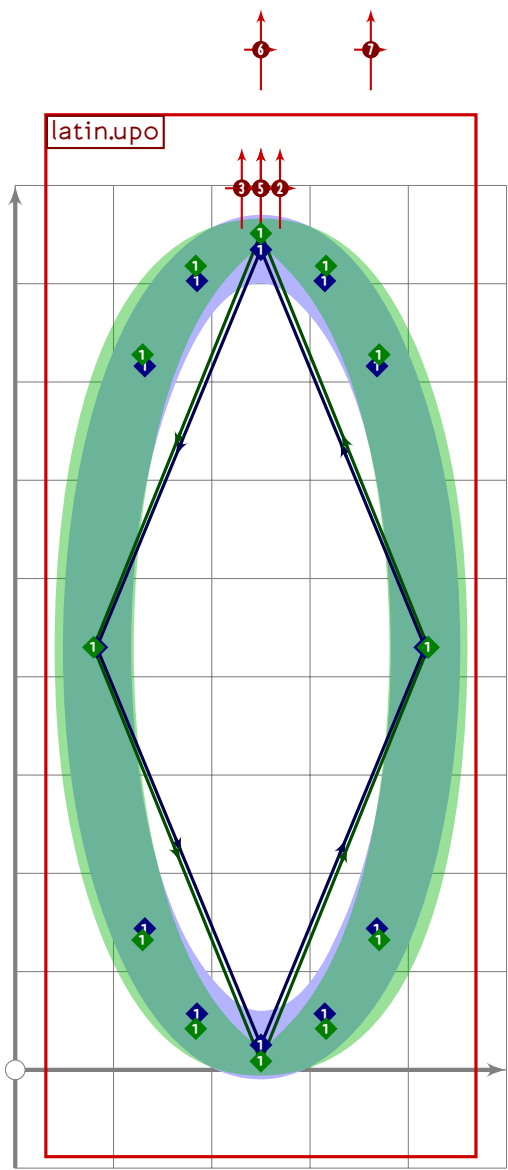
```

435 % N
436 begint Suglyph("N";78);
437 latin.upn;
438 tsu_render;
439 endtsuglyph;
440

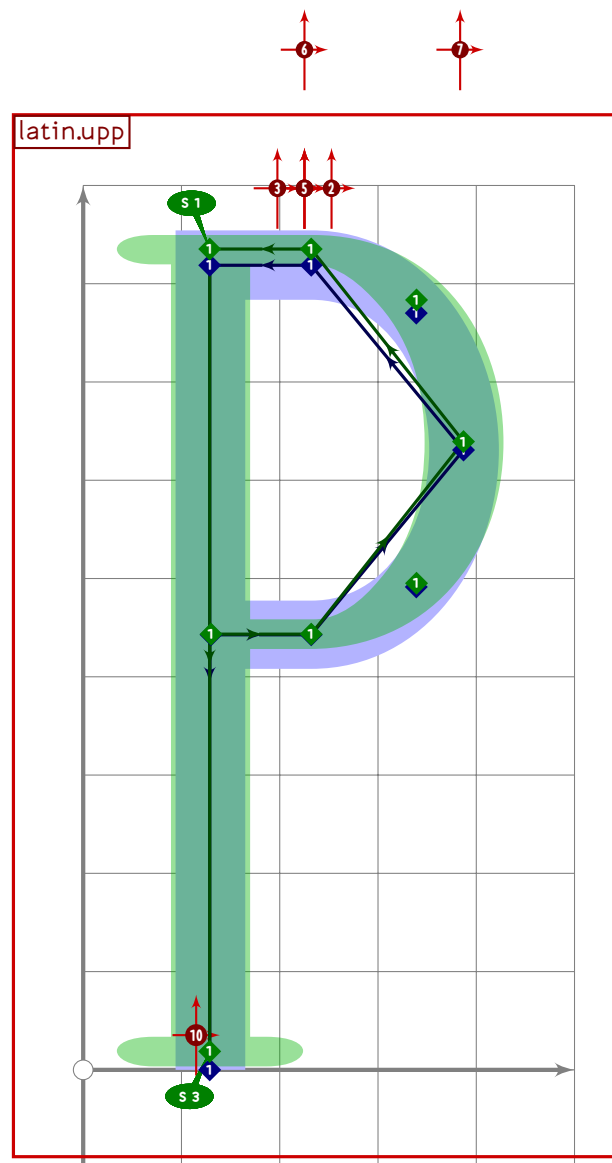
```

U+004F
tsuku.O

00



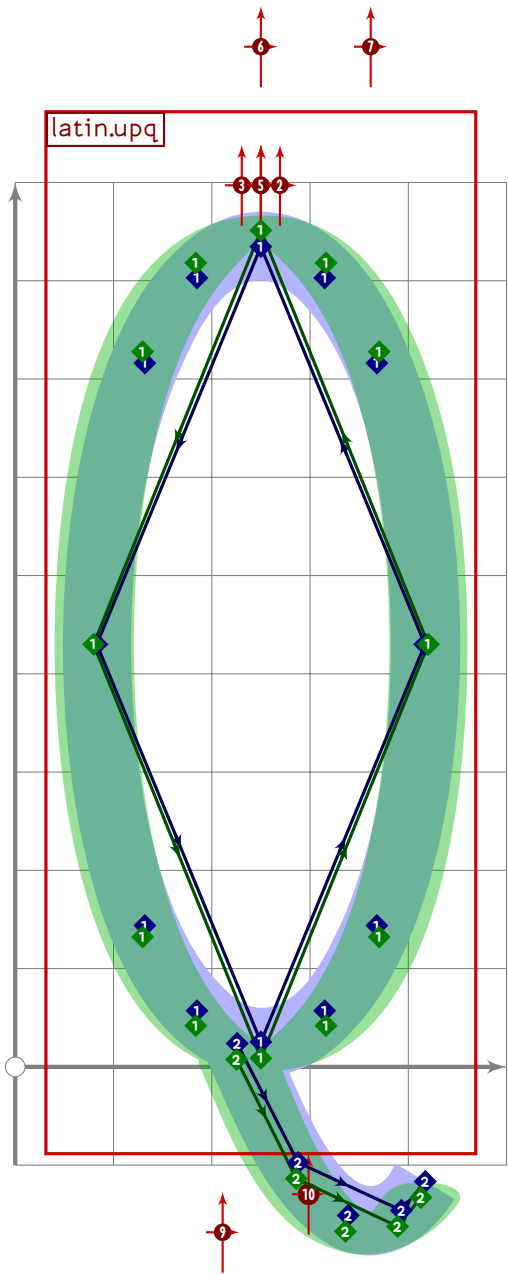
```
441 % O
442 begint Suglyph("O",79);
443 latin.upo;
444 tsu_render;
445 endtsuglyph;
446
```



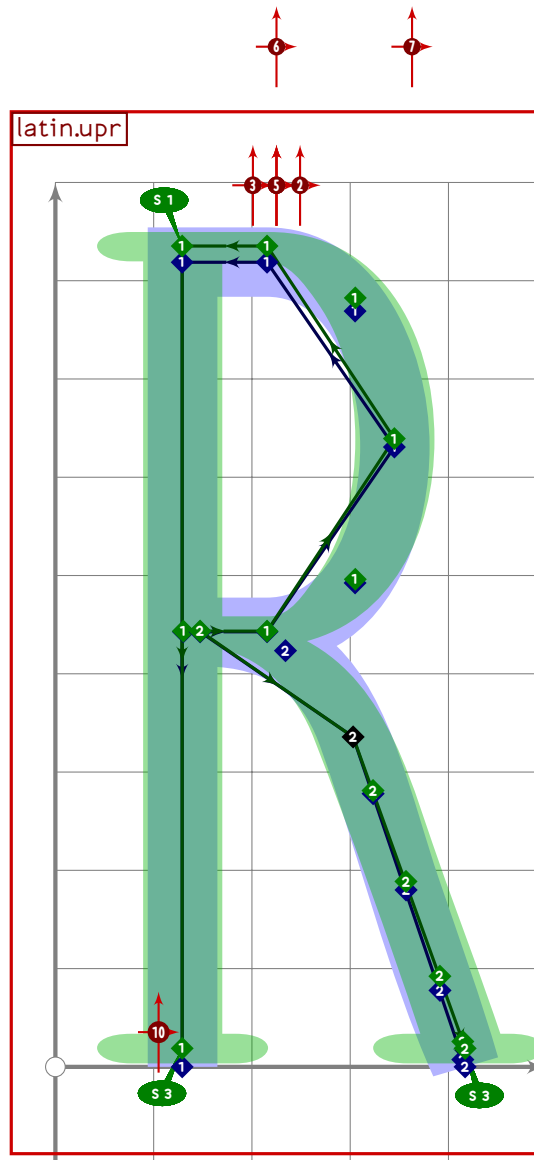
```

447 % P
448 begintsuglyph("P",80);
449     latin.upp;
450     tsu_render;
451 endsuglyph;
452

```



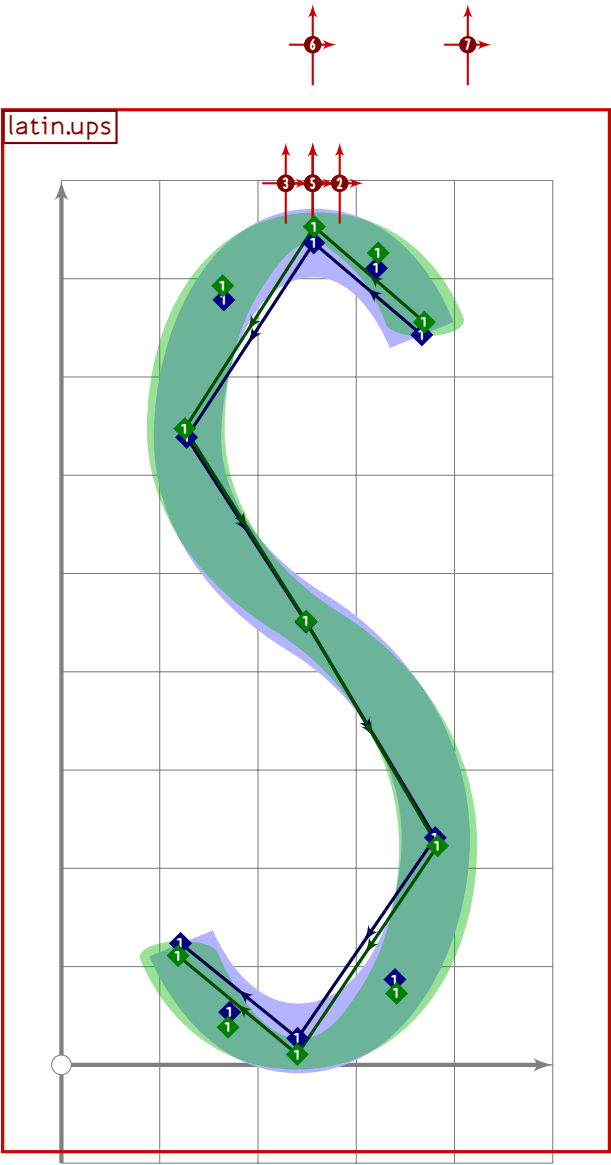
```
453 % Q
454 begintsuglyph("Q";81);
455 latin.upq;
456 tsu_render;
457 endtsuglyph;
458
```



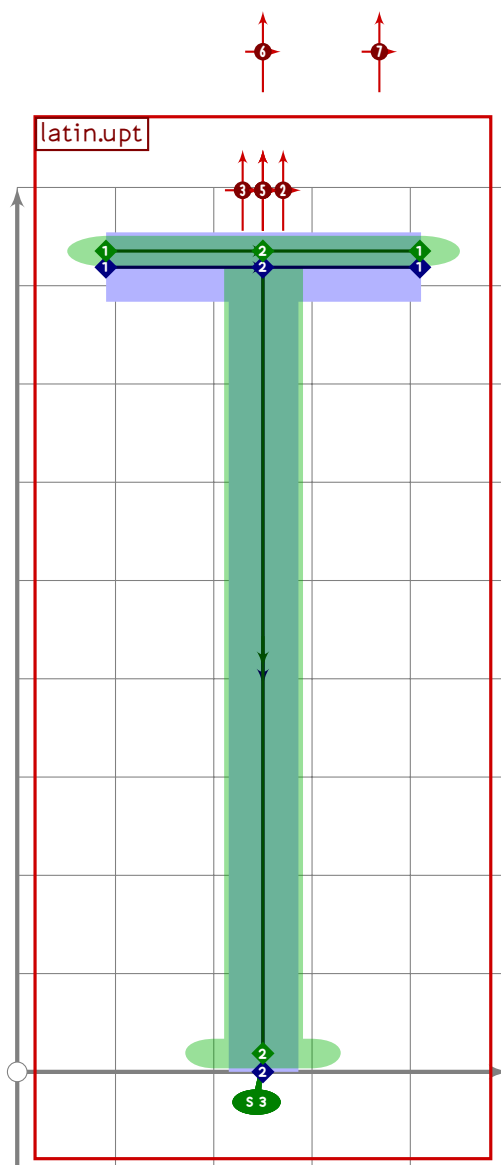
```

459 % R
460 begintsuglyph("R";82);
461   latin.upr;
462   tsu_render;
463 endtsuglyph;
464

```

```
465 % S
466 begint Suglyph("S";83);
467   latin.ups;
468   tsu_render;
469 endtsuglyph;
470
```



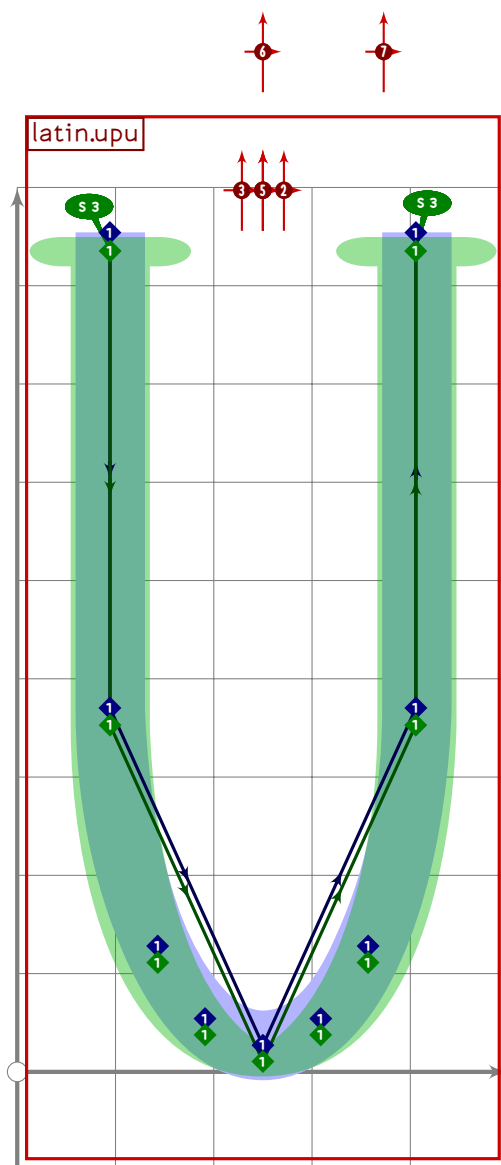
```

471 % T
472 begintsuglyph("T";84);
473   latin.upt;
474   tsu_render;
475 endtsuglyph;
476

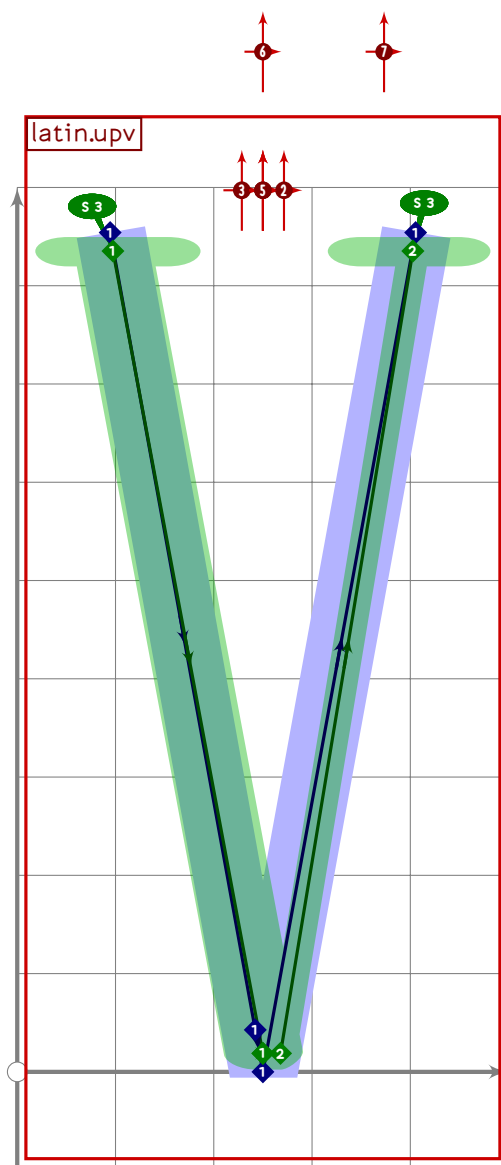
```

U+0055
tsuku.U

00



```
477 % U
478 begint Suglyph("U";85);
479 latin.upu;
480 tsu_render;
481 endtsuglyph;
482
```



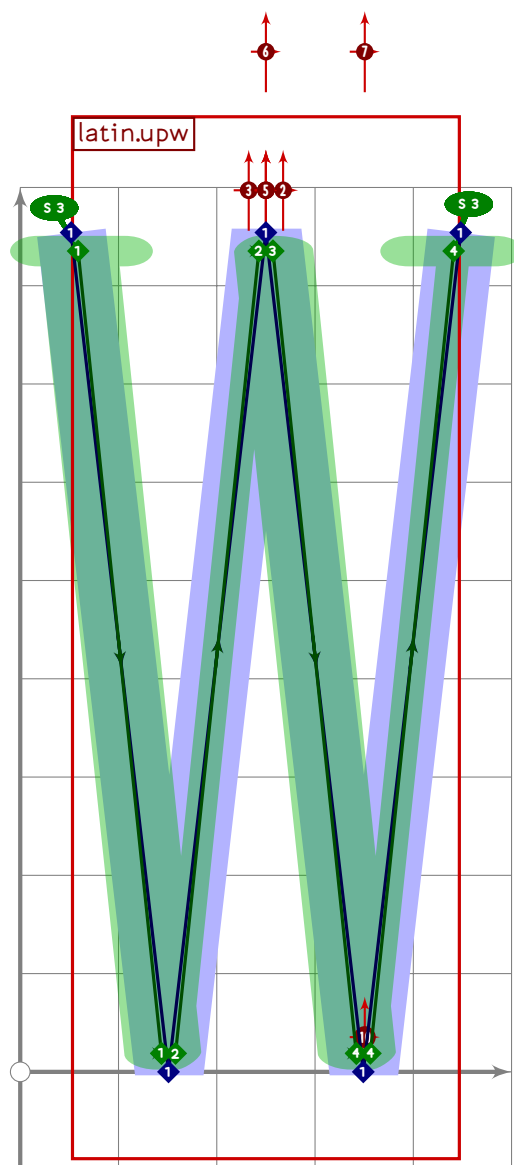
```

483 % V
484 begintsuglyph("V",86);
485   latin.upv;
486   tsu_render;
487 endtsuglyph;
488

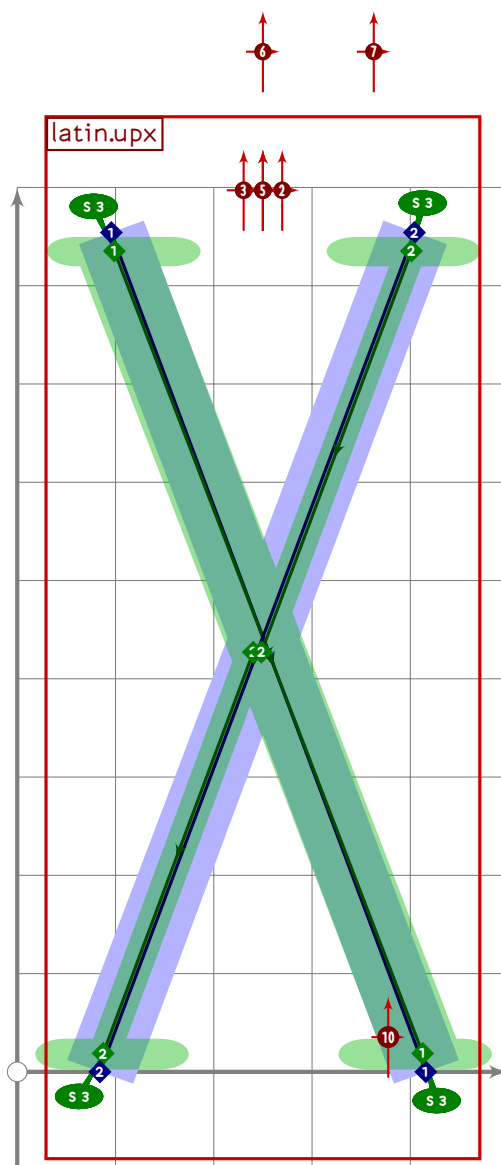
```

U+0057
tsuku.W

00



```
489 % W
490 begint Suglyph("W";87);
491   latin.upw;
492   tsu_render;
493 endtsuglyph;
494
```



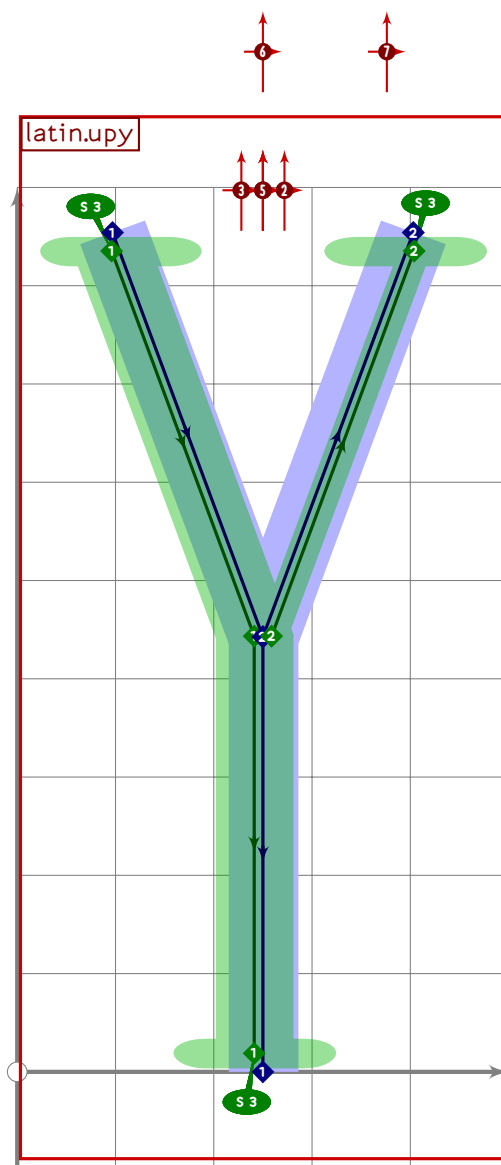
```

495 % X
496 begintsuglyph("X",88);
497   latin.upx;
498   tsu_render;
499 endtsuglyph;
500

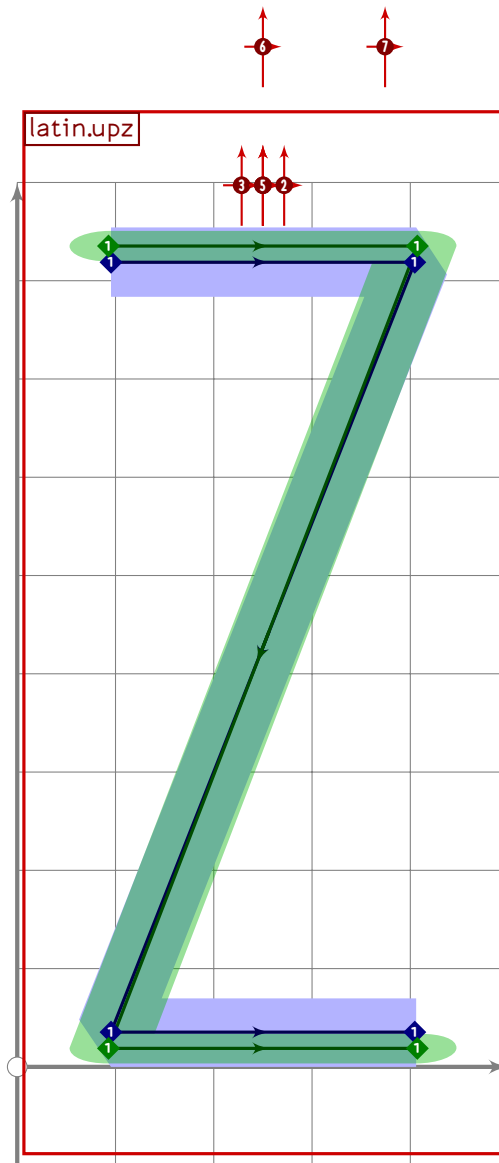
```

U+0059
tsuku.Y

00



```
501 % Y
502 begint Suglyph("Y";89);
503   latin.upy;
504   tsu_render;
505 endtsuglyph;
506
```



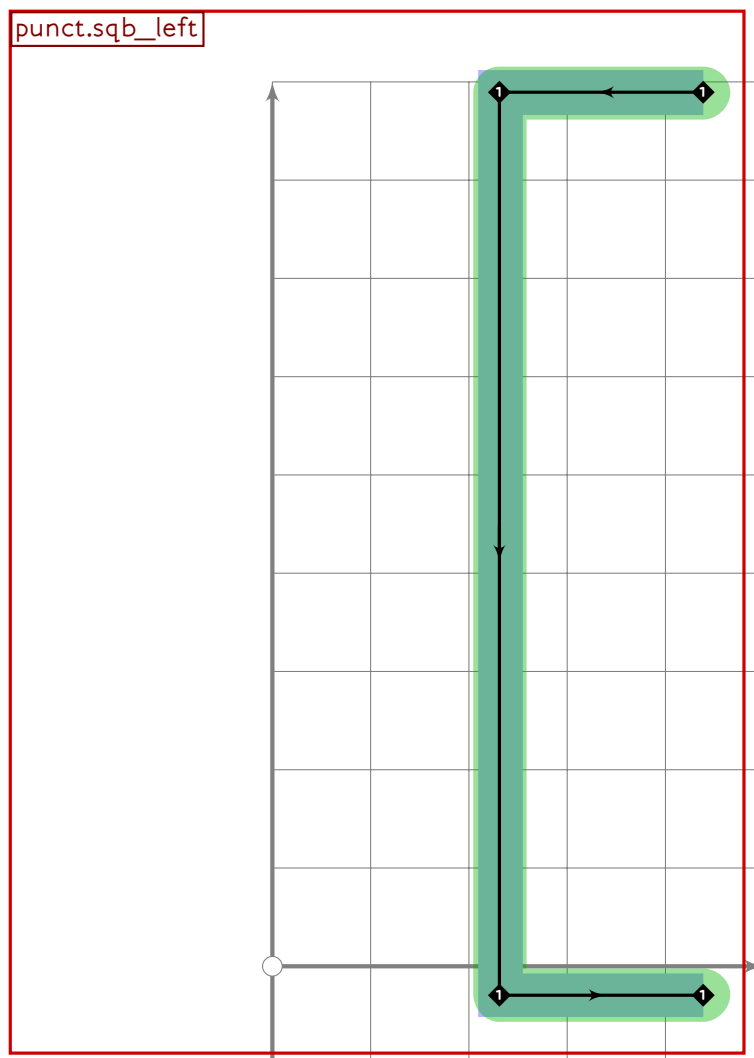
```

507 % Z
508 begintsuglyph("Z";90);
509 latin.upz;
510 tsu_render;
511 endtsuglyph;
512
513 tsu_accent.clear_default_anchors;
514

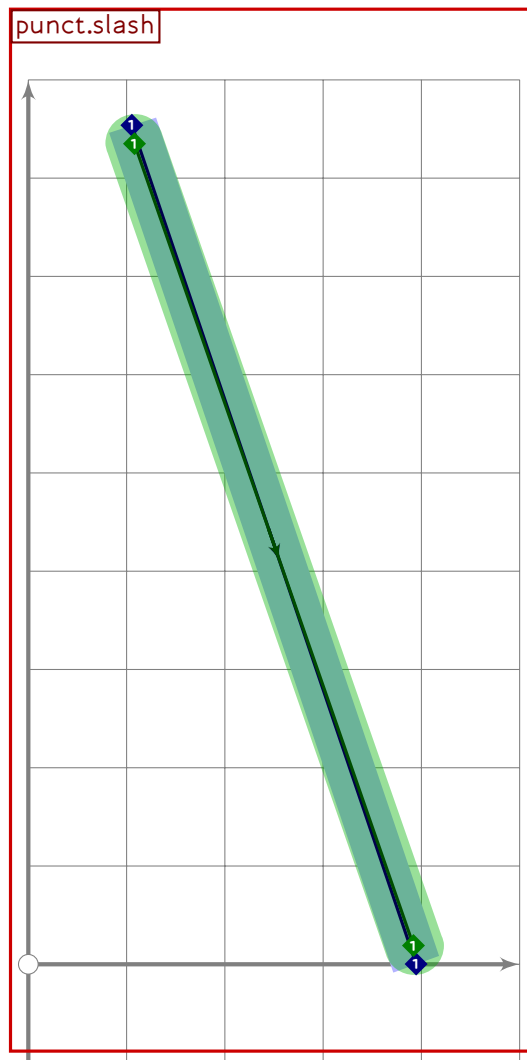
```


U+005B
tsuku.bracketleft

00



```
515 % left and right square brackets, backslash between
516 begintsuglyph("bracketleft";91);
517   punct.sqb_left;
518   tsu_render;
519 endtsuglyph;
```



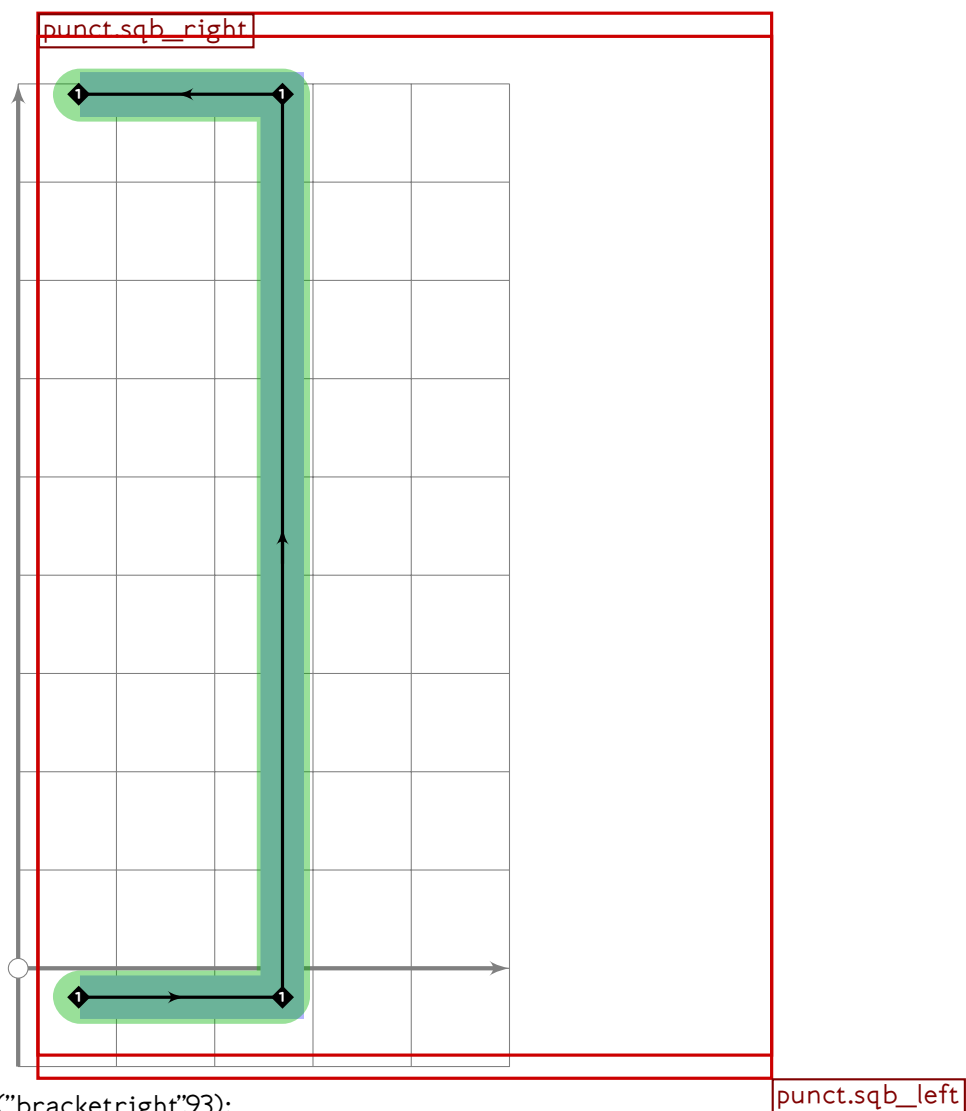
```

520 % backslash
521 begint Suglyph("backslash";92);
522 punct.slash;
523 replace_strokep(0)(oldp reflectedabout (centre_pt,(centre_pt+down)));
524 tsu_render;
525 endtsuglyph;

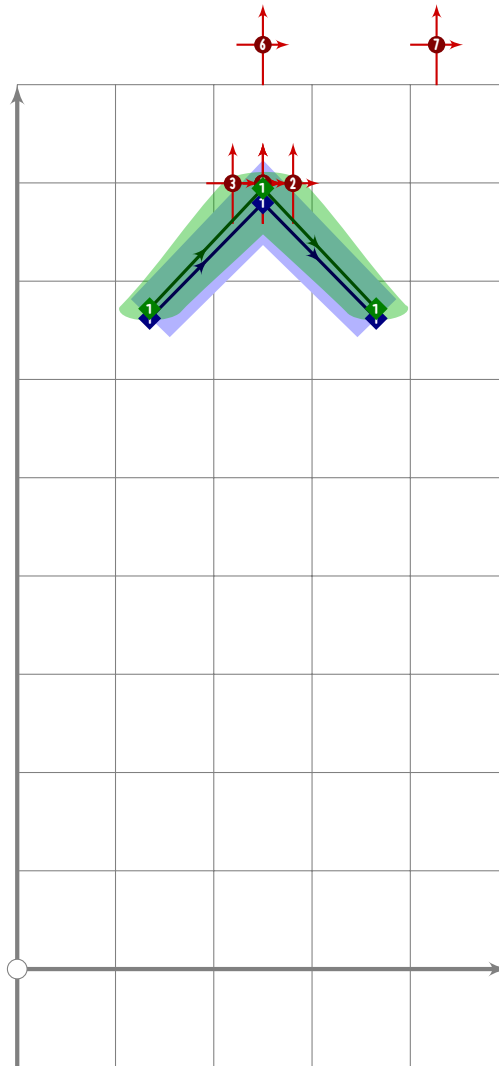
```

U+005D
tsuku.bracketright

00



```
526 begintsuglyph("bracketright";93);  
527   punct.sqb_right;  
528   tsu_render;  
529 endsuglyph;  
530
```



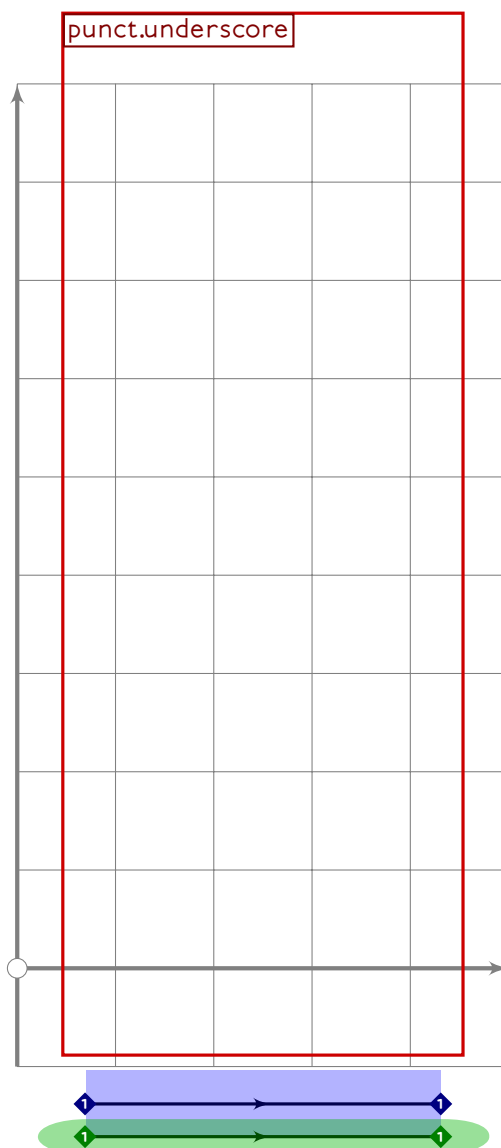
```

531 % circumflex accent/caret
532 begintsuglyph("asciicircum";94);
533   tsu_accent.circumflex;
534   tsu_render;
535 endtsuglyph;
536

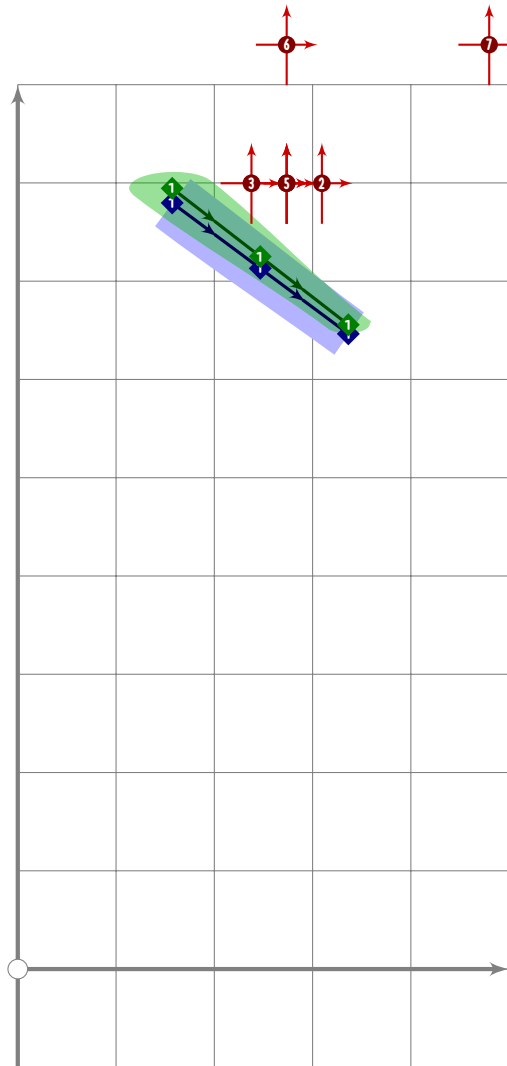
```

U+005F
tsuku.underscore

00



```
537 % underscore
538 begint Suglyph('underscore';95);
539   punct.underscore;
540   tsu_render;
541   endtsuglyph;
542
```



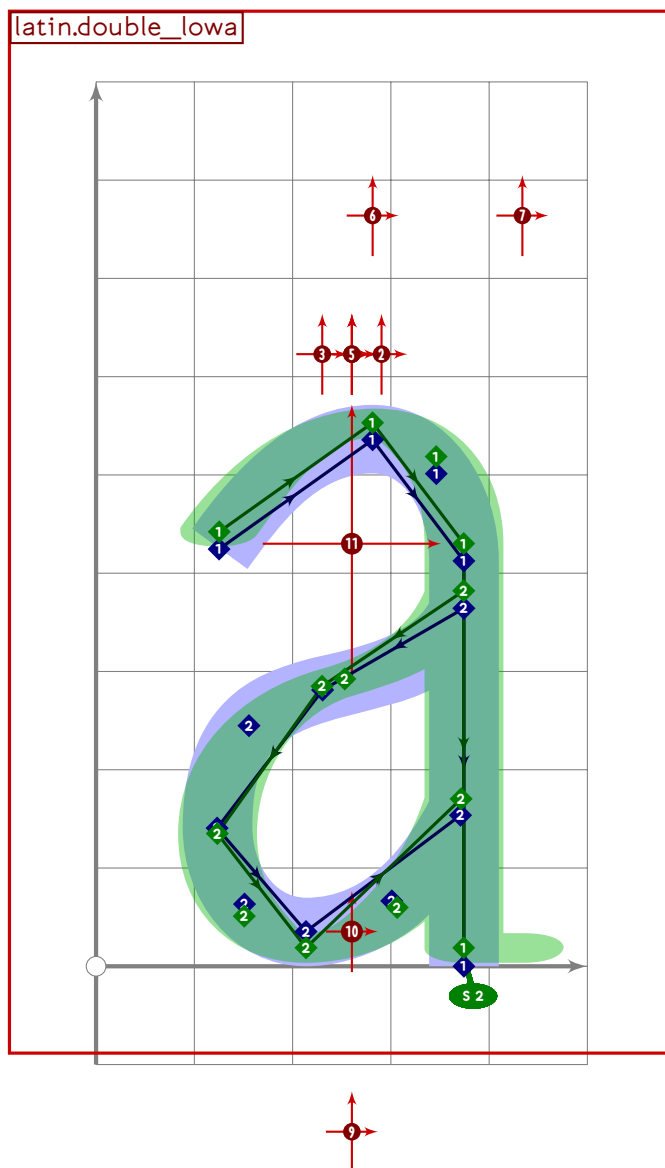
```

543 % grave accent
544 begint Suglyph("grave";96);
545   tsu_accent.grave;
546   tsu_render;
547 endtsuglyph;
548
549 % WARNING changing rescale setting
550 tsu_rescale_half_lc;
551
552 tsu_accent.low_default_anchors;
553

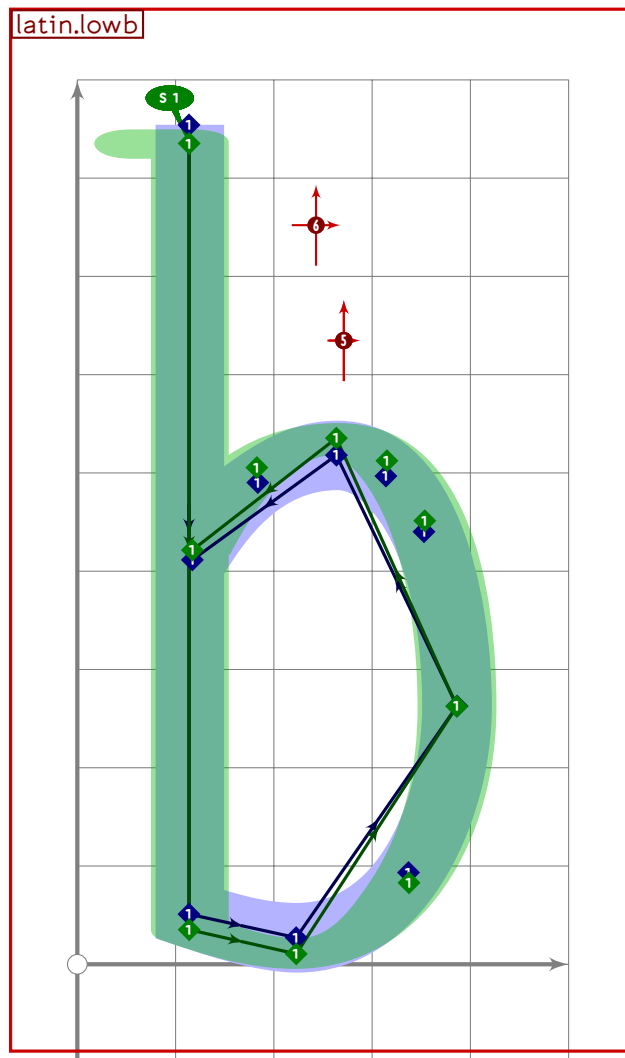
```

U+0061
tsuku.a

00



```
554 % a
555 begintsuglyph("a",97);
556   latin.low_a;
557   tsu_render;
558 endtsuglyph;
559
```



```

560 % b
561 begint Suglyph("b";98);
562 latin.lowb;
563 tsu_render;
564 endtsuglyph;
565

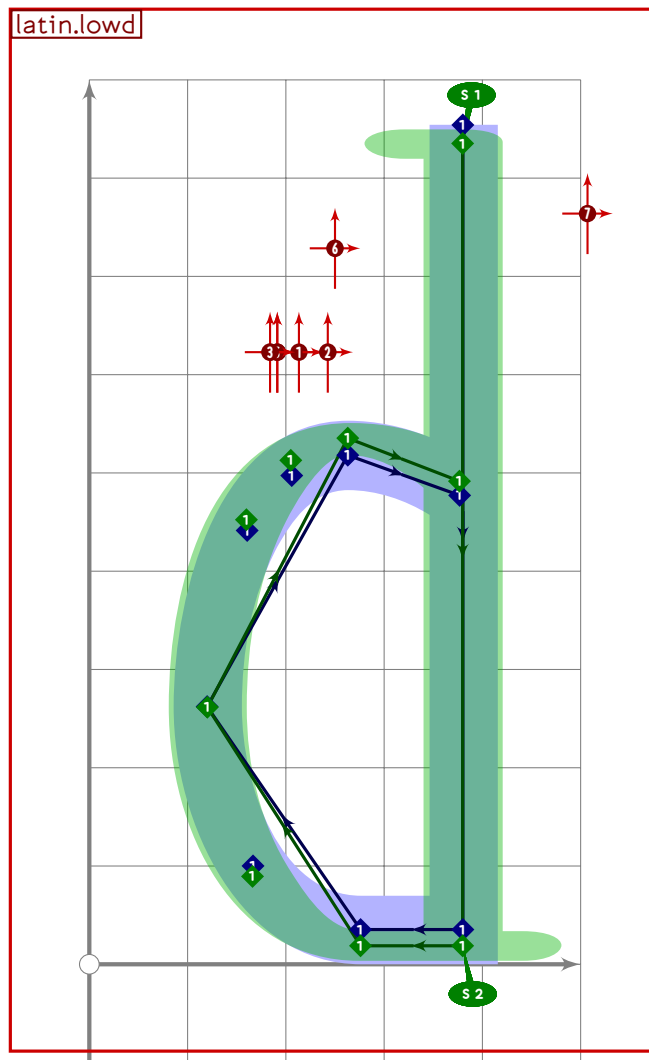
```


latin.lowc

A diagram illustrating a stylized letter 'C' on a grid. The letter is composed of a thick green outline and a thinner blue inner outline. Several vectors (arrows) are shown, each labeled with a weight. The vectors are: a red vector labeled '6' pointing right from the top center; a red vector labeled '7' pointing right from the top right; a red vector labeled '3' pointing right from the top left; a red vector labeled '5' pointing right from the top center; a red vector labeled '2' pointing right from the top right; a red vector labeled '11' pointing right from the center; a red vector labeled '1' pointing right from the bottom center; a green vector labeled '1' pointing down from the top left; a green vector labeled '1' pointing down from the top right; a green vector labeled '1' pointing down from the bottom left; and a green vector labeled '1' pointing down from the bottom right.



1128



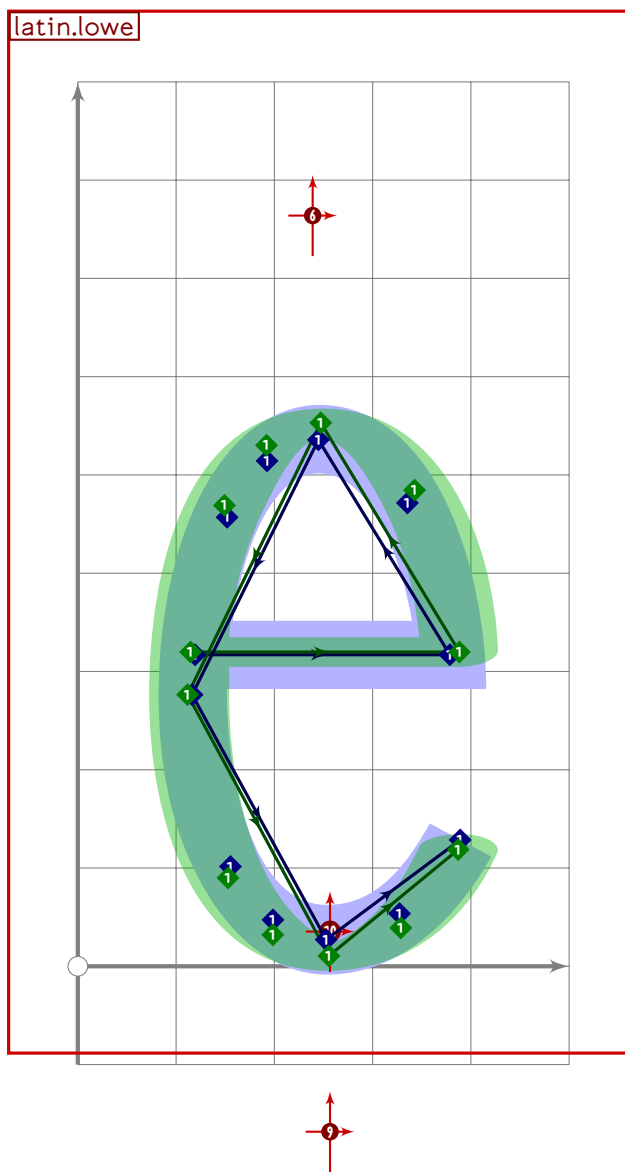
```

572 % d
573 beginsuglyph("d",100);
574   latin.lowd;
575   tsu_render;
576 endsuglyph;
577

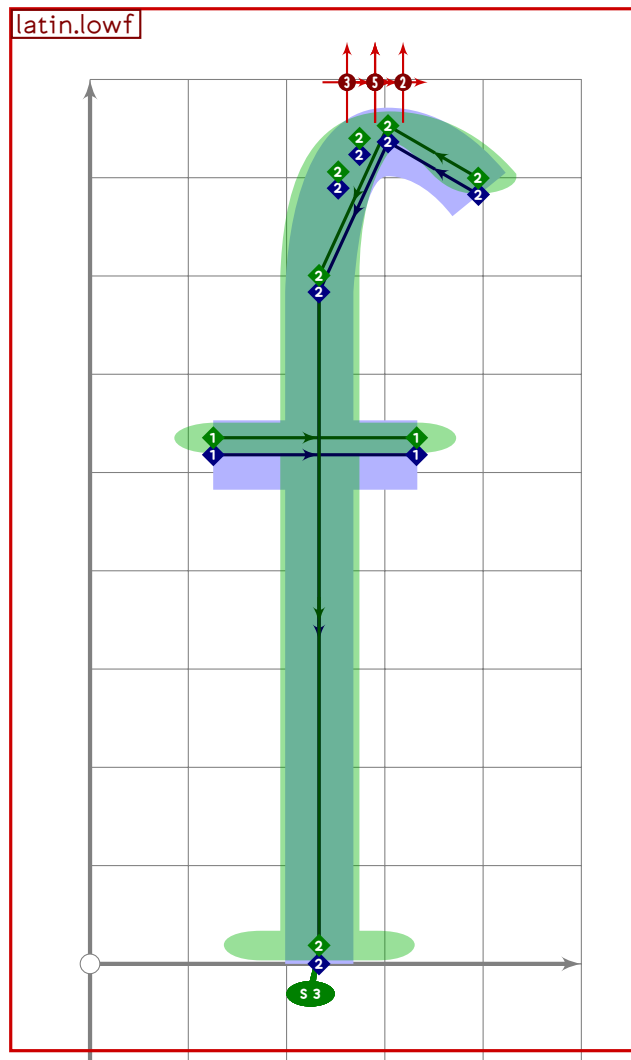
```

U+0065
tsuku.e

00



```
578 % e
579 begintsuglyph("e",101);
580 latin.lowe;
581 tsu_render;
582 endtsuglyph;
583
```



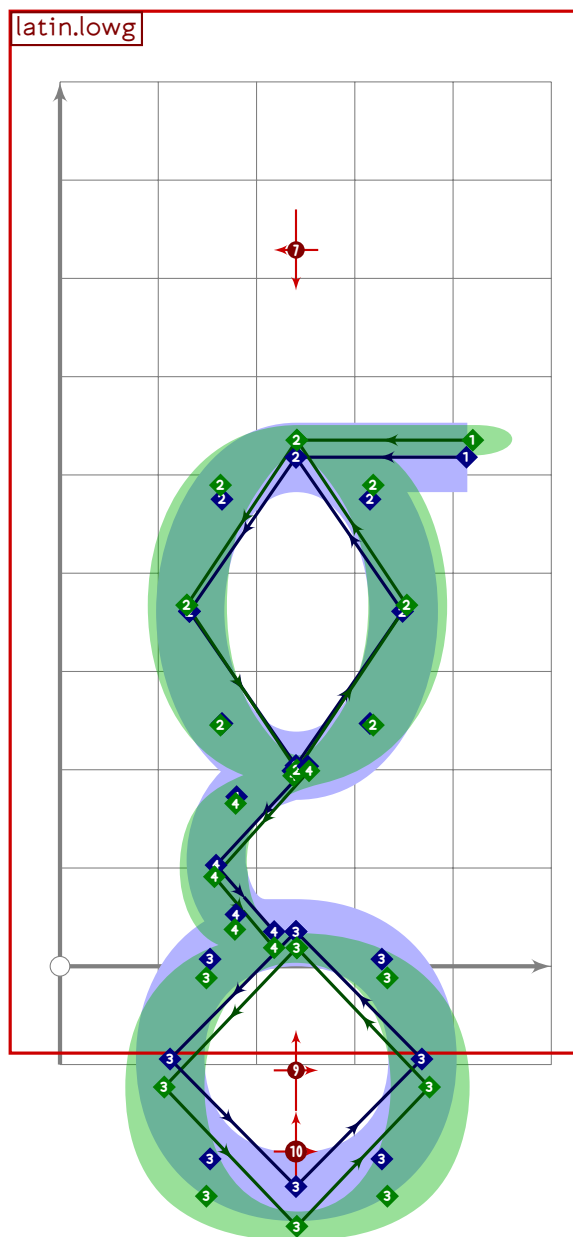
```

584 % f
585 begint Suglyph("f";102);
586 latin.lowf;
587 tsu_render;
588 endtsuglyph;
589

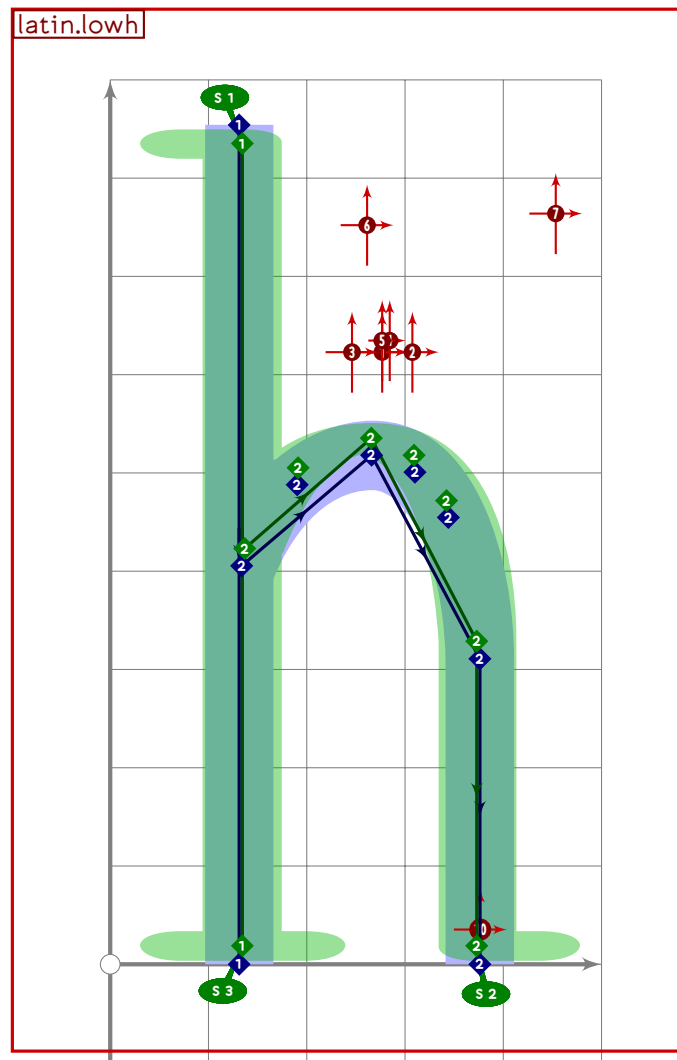
```

U+0067
tsuku.g

00



```
590 % g
591 begint Suglyph("g",103);
592 latin.lowg;
593 tsu_render;
594 endtsuglyph;
595
```



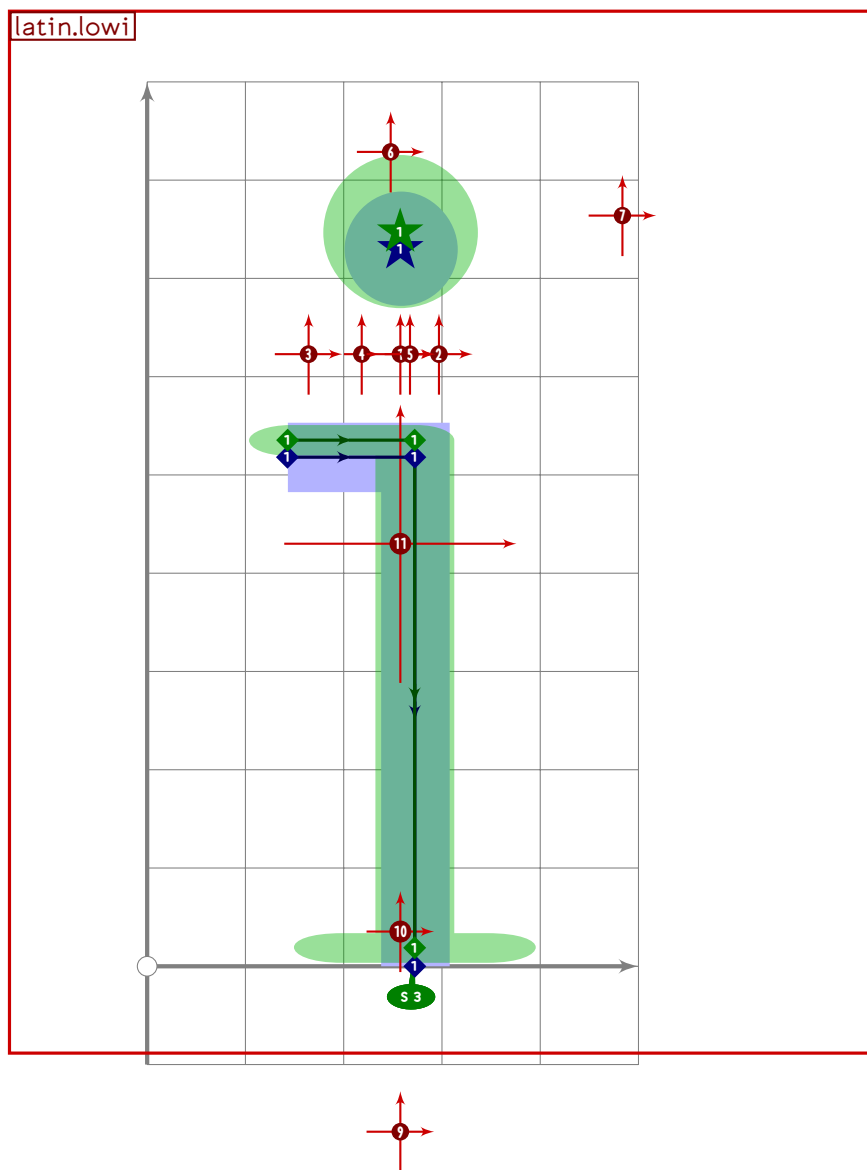
```

596 % h
597 beginsuglyph("h",104);
598   latin.lowh;
599   tsu_render;
600 endsuglyph;
601

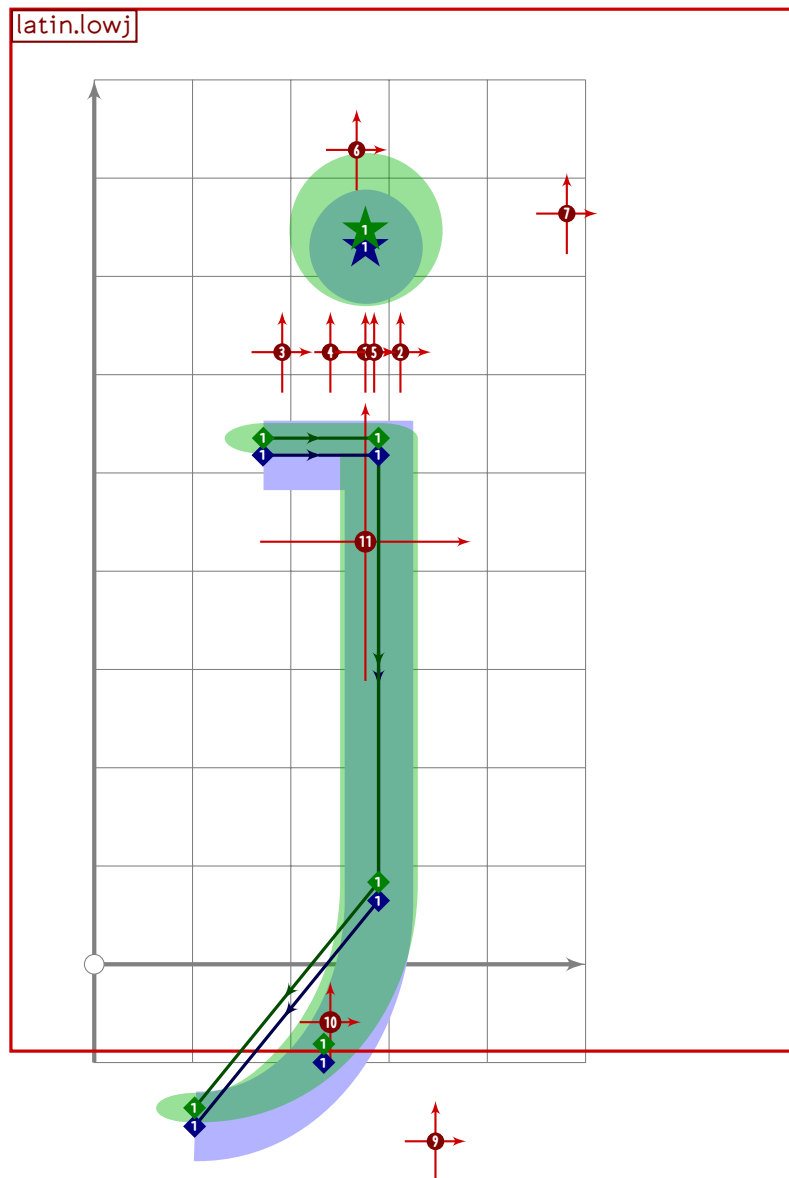
```

U+0069
tsuku.i

00



```
602 % i
603 beginsuglyph("i",705);
604 latin.lowi;
605 tsu_render;
606 endtsuglyph;
607
```

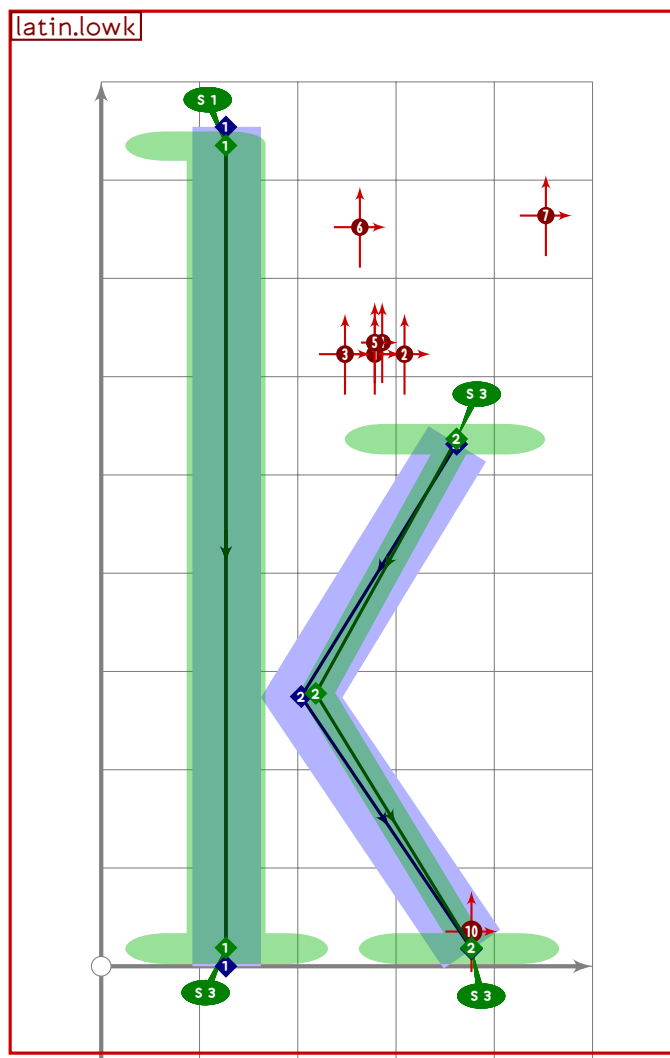


```

608 % j
609 beginsuglyph("j";106);
610 latin.lowj;
611 tsu_render;
612 endsuglyph;
613

```


00



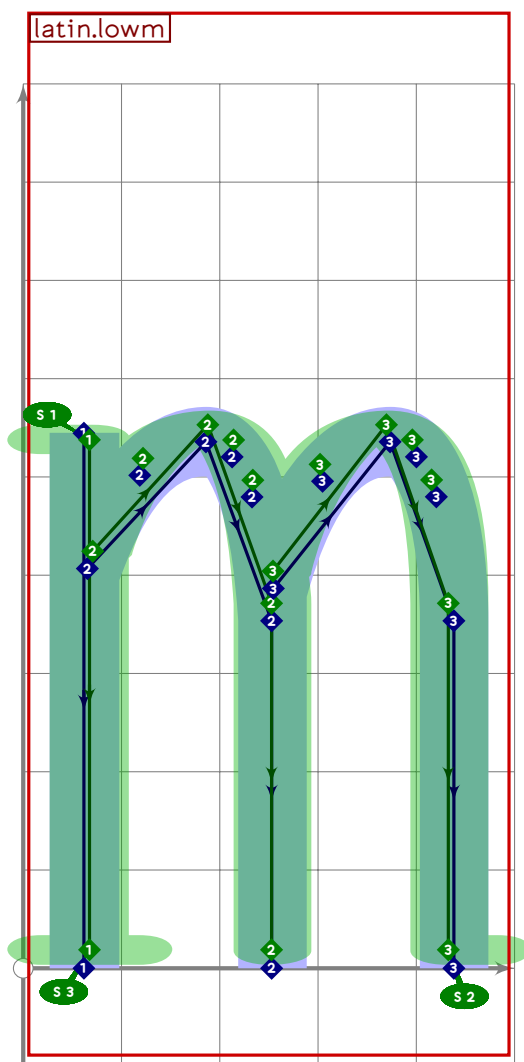
```

614 % k
615 beginsuglyph("k",107);
616   latin.lowk;
617   tsu_render;
618 endtsuglyph;
619

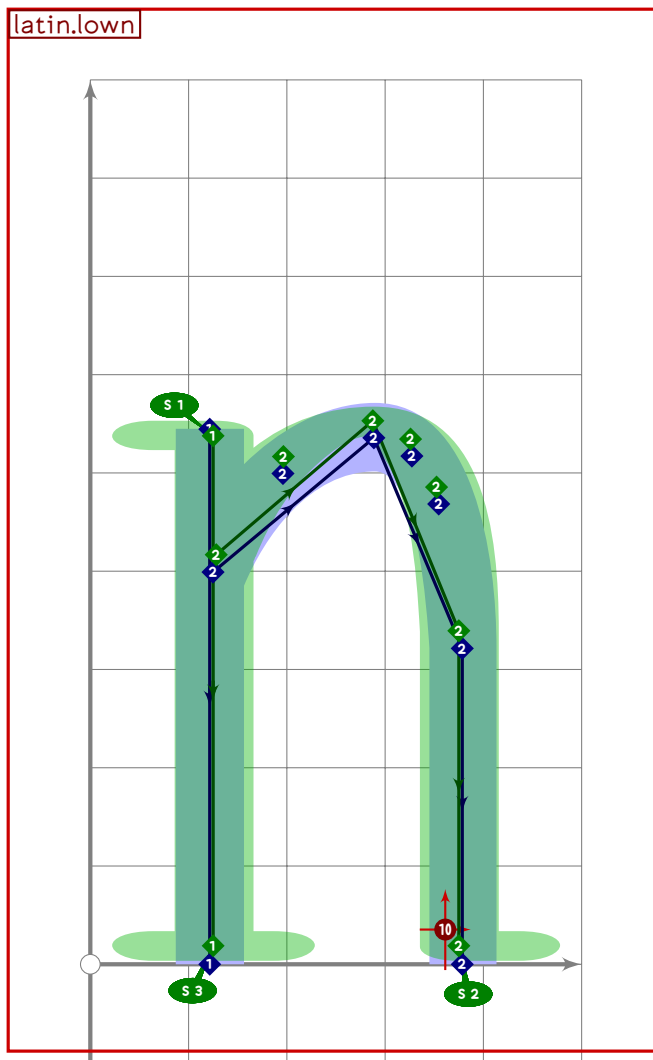
```


U+006D
tsuku.m

00



```
626 % m
627 beginsuglyph('m',109);
628   latin.lowm;
629   tsu_render;
630 endsuglyph;
631
```



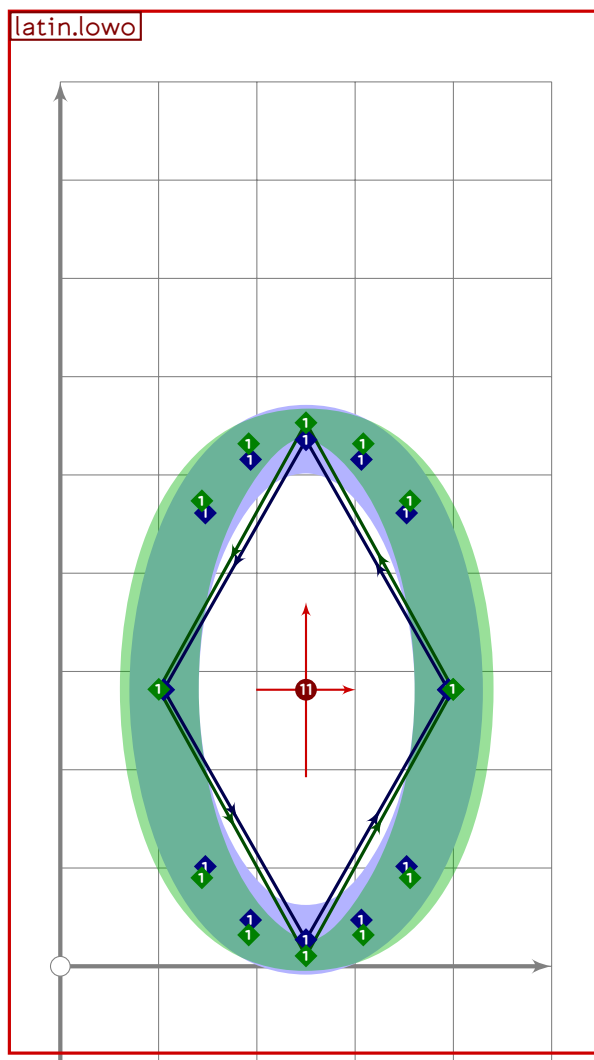
```

632 % n
633 beginsuglyph("n",110);
634   latin.lown;
635   tsu_render;
636 endsuglyph;
637

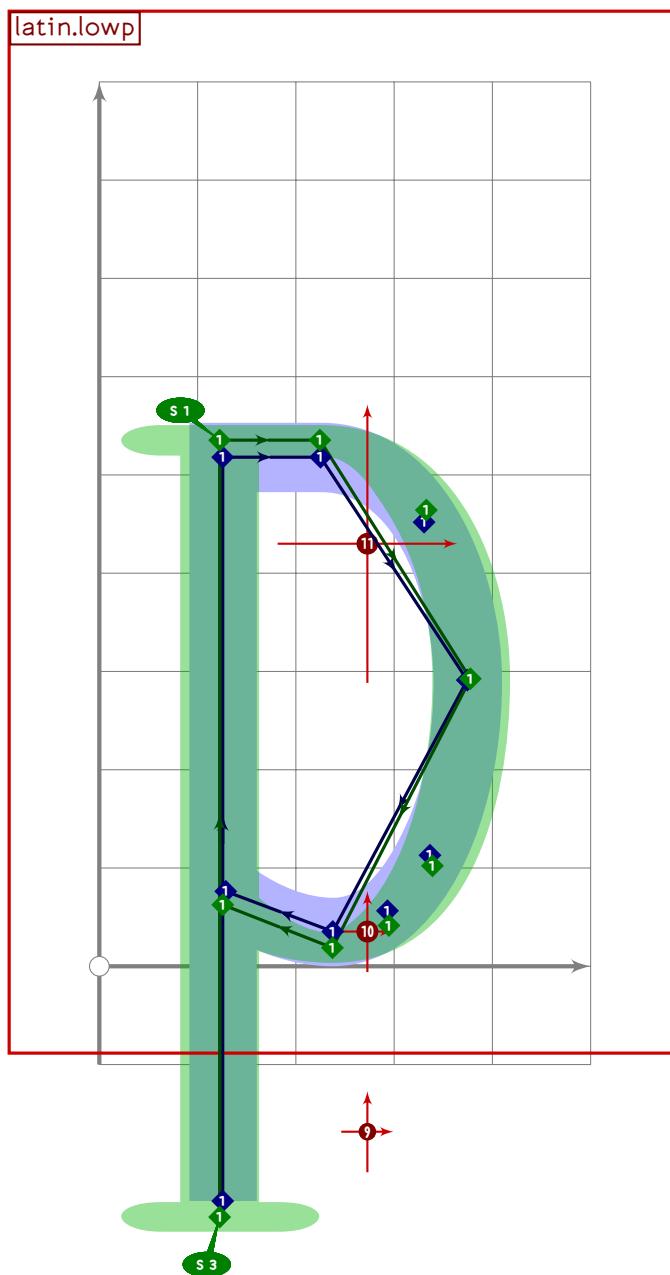
```

U+006F
tsuku.o

00



```
638 % o
639 begint Suglyph('o',111);
640   latin.lowo;
641   tsu_render;
642 endtsuglyph;
643
```



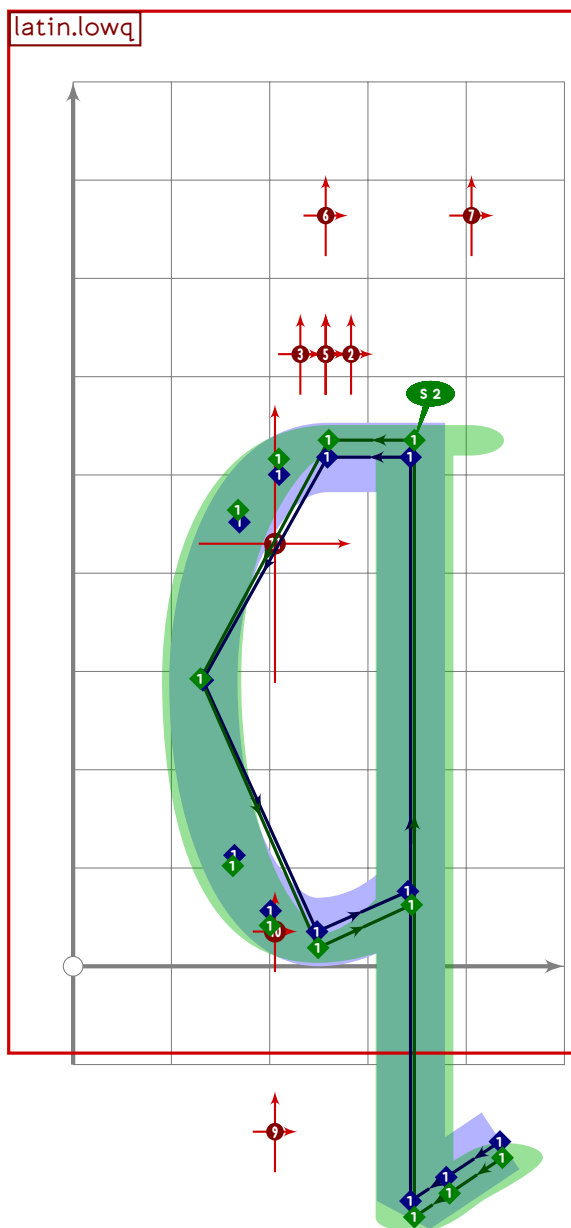
```

644 % p
645 beginsuglyph("p",112);
646   latin.lowp;
647   tsu_render;
648 endsuglyph;
649

```

U+0071
tsuku.q

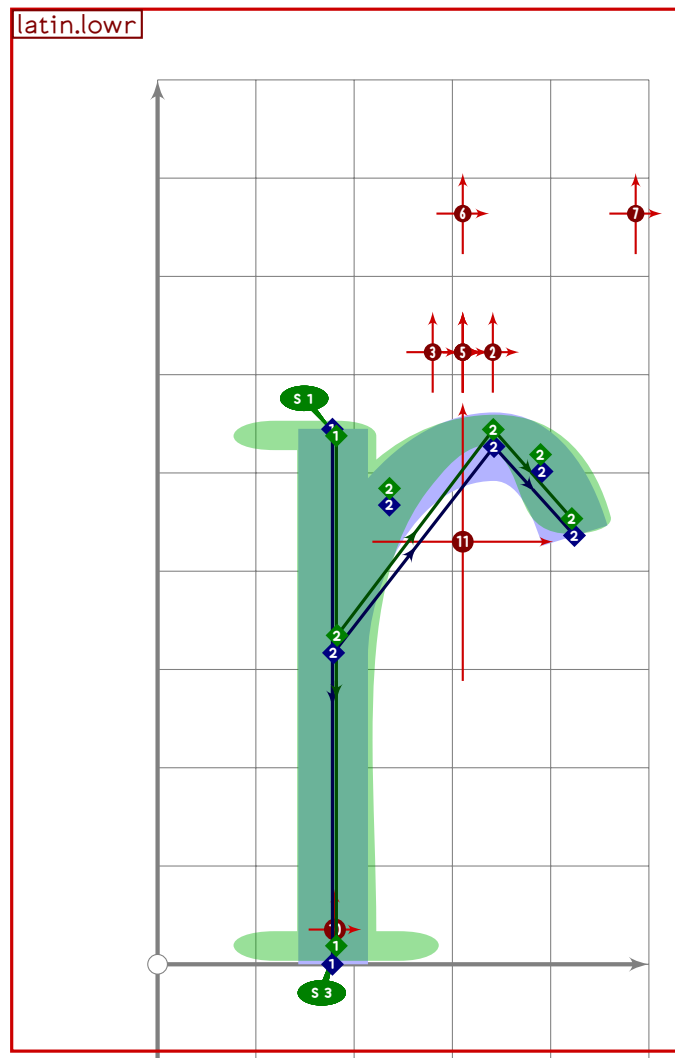
00



```

650 % q
651 begintsuglyph("q";113);
652   latin.lowq;
653   tsu_render;
654 endtsuglyph;
655

```



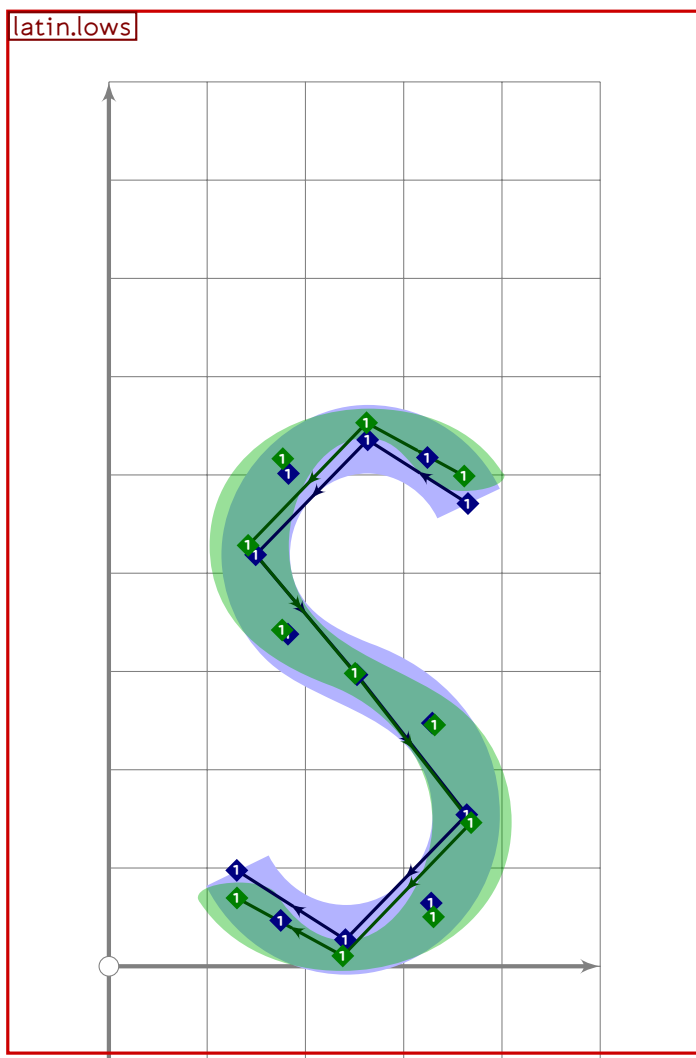
```

656 % r
657 beginsuglyph("r";114);
658   latin.lowr;
659   tsu_render;
660 endsuglyph;
661

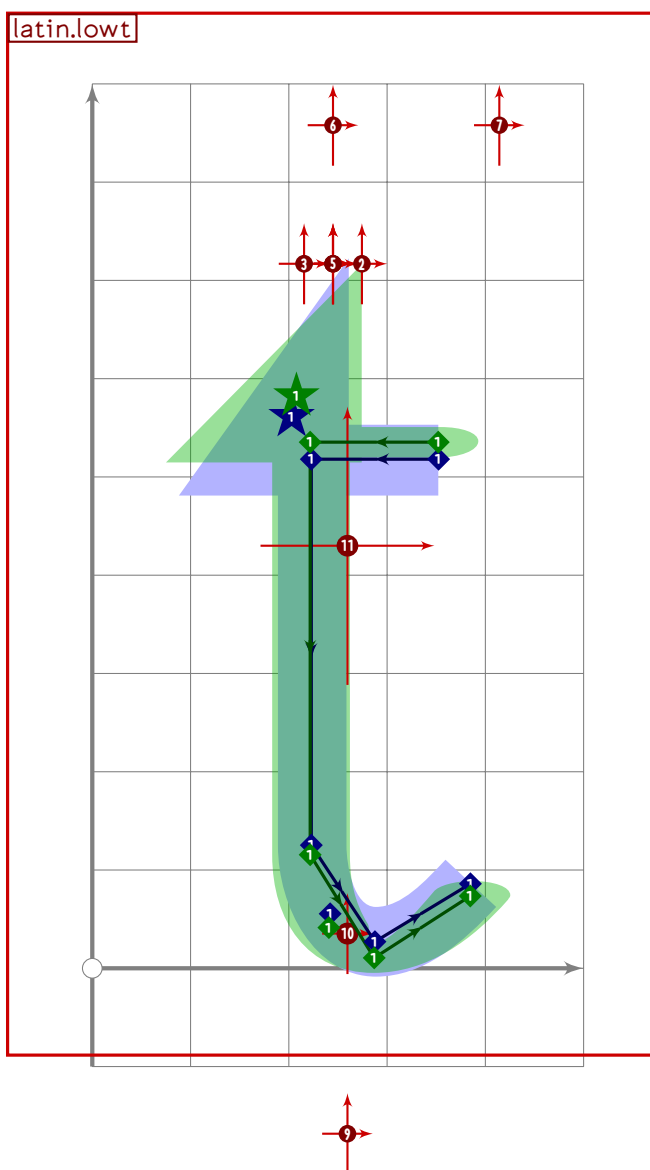
```


U+0073
tsuku.s

00



```
662 % s
663 beginsuglyph("s",115);
664   latin.lows;
665   tsu_render;
666 endsuglyph;
667
```



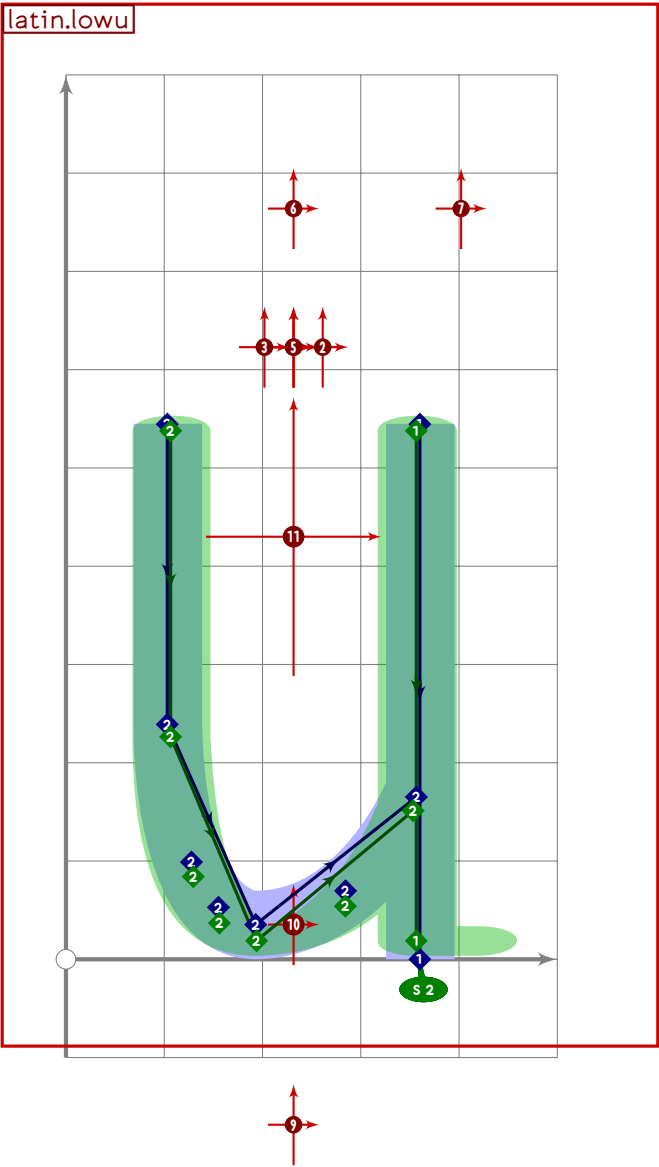
```

668 % t
669 begintsuglyph("t",116);
670   latin.lowt;
671   tsu_render;
672 endtsuglyph;
673

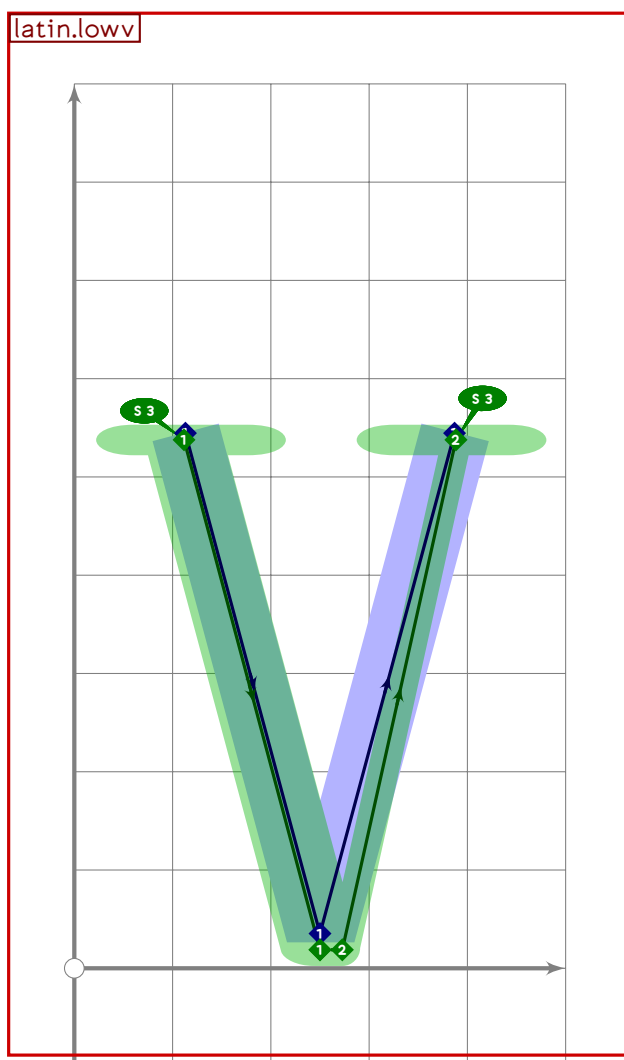
```

U+0075
tsuku.u

00



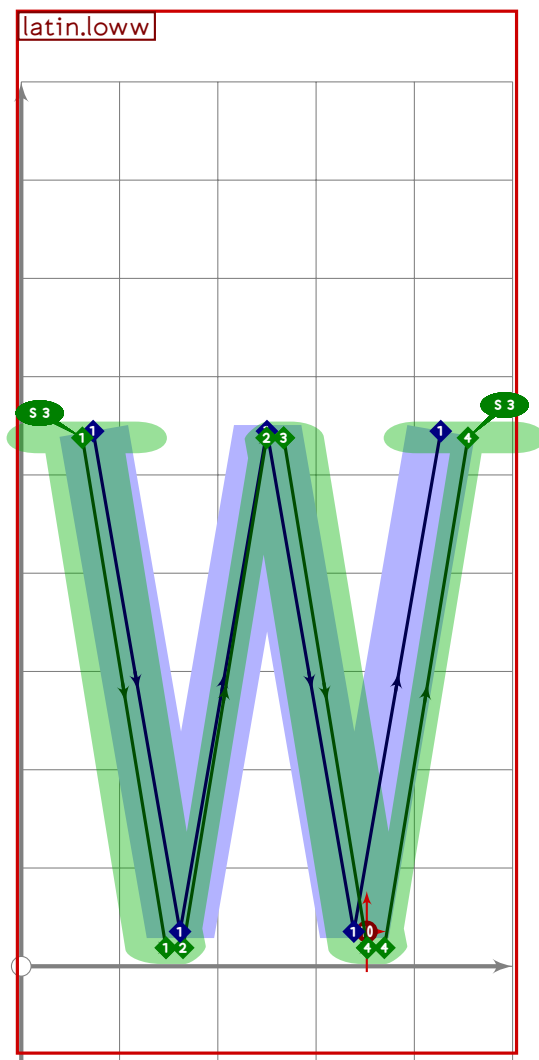
```
674 % u
675 begintsuglyph("u",117);
676 latin.lowu;
677 tsu_render;
678 endtsuglyph;
679
```



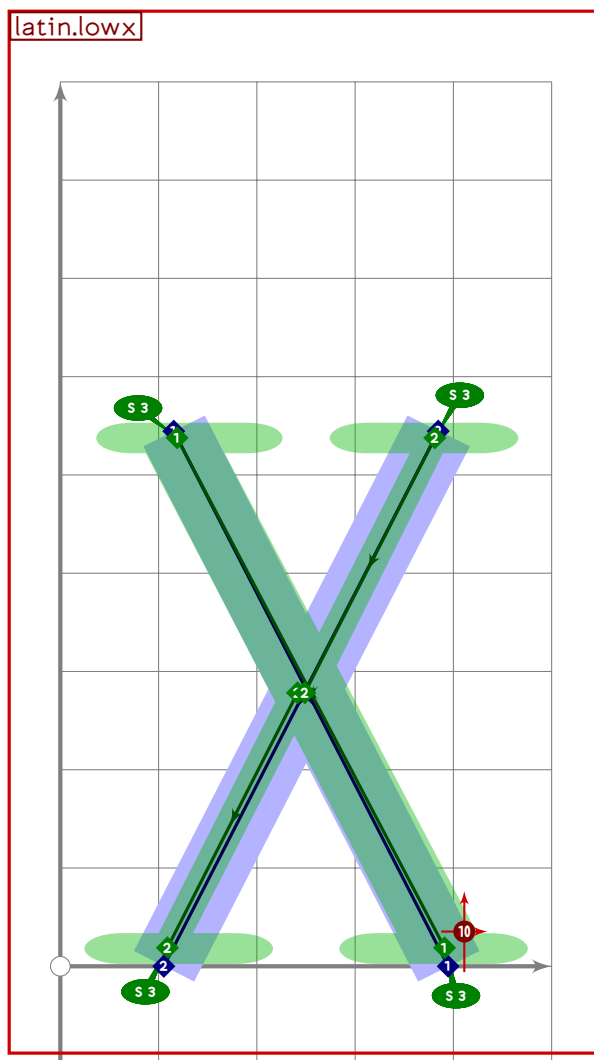
```
680 % v
681 begintsuglyph("v";18);
682   latin.lowv;
683   tsu_render;
684 endtsuglyph;
685
```

U+0077
tsuku.w

00



```
686 % w
687 beginsuglyph('w',119);
688   latin.loww;
689   tsu_render;
690 endsuglyph;
691
```



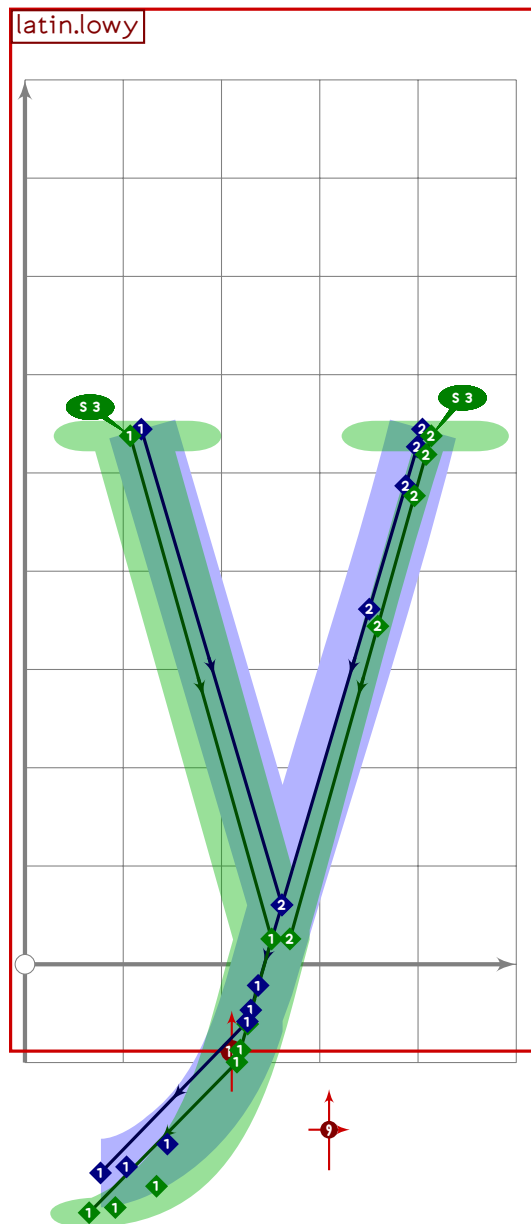
```

692 % x
693 beginsuglyph("x",120);
694   latin.lowx;
695   tsu_render;
696 endsuglyph;
697

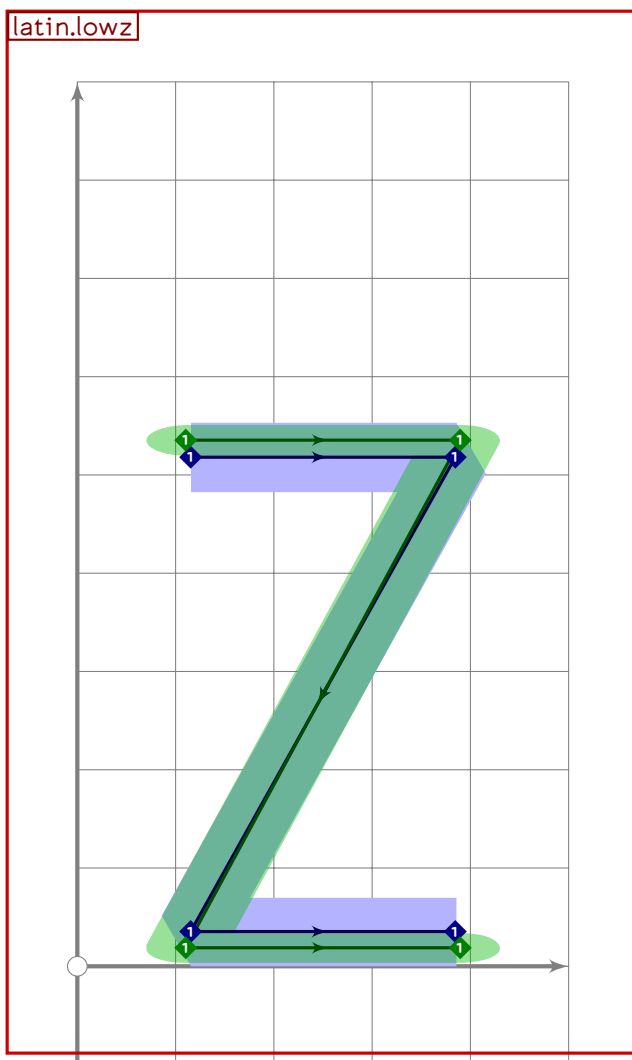
```

U+0079
tsuku.y

00



```
698 % y
699 beginsuglyph("y";121);
700 latin.lowy;
701 tsu_render;
702 endsuglyph;
703
```



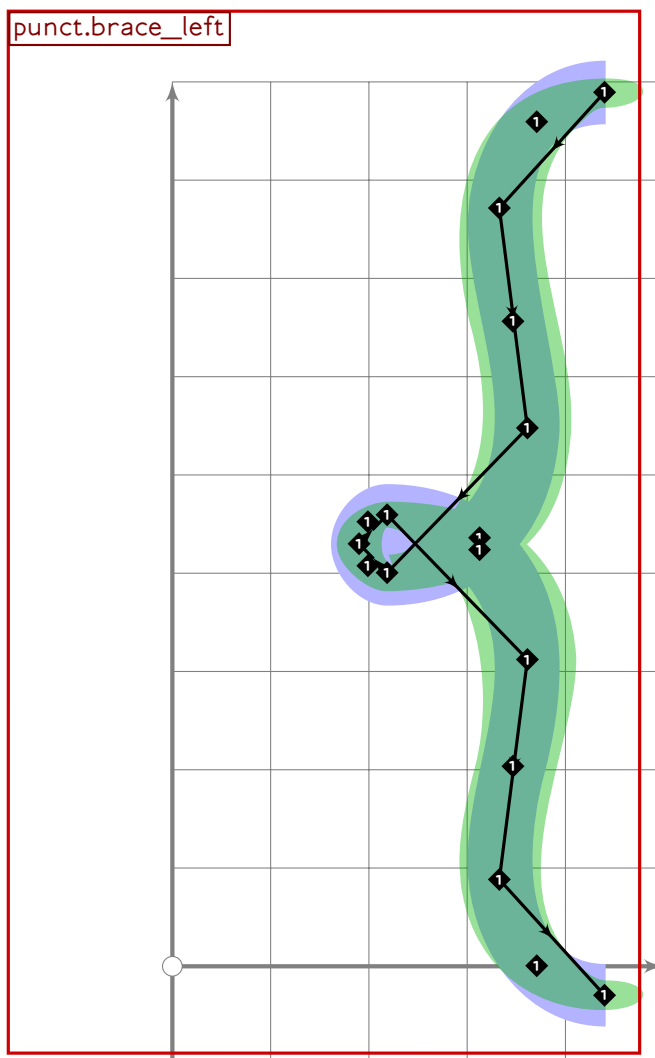
```

704 % z
705 beginsuglyph("z";122);
706   latin.lowz;
707   tsu_render;
708 endsuglyph;
709
710 tsu_accent.clear_default_anchors;
711
712 % WARNING changing rescale setting
713 tsu_rescale_half;
714

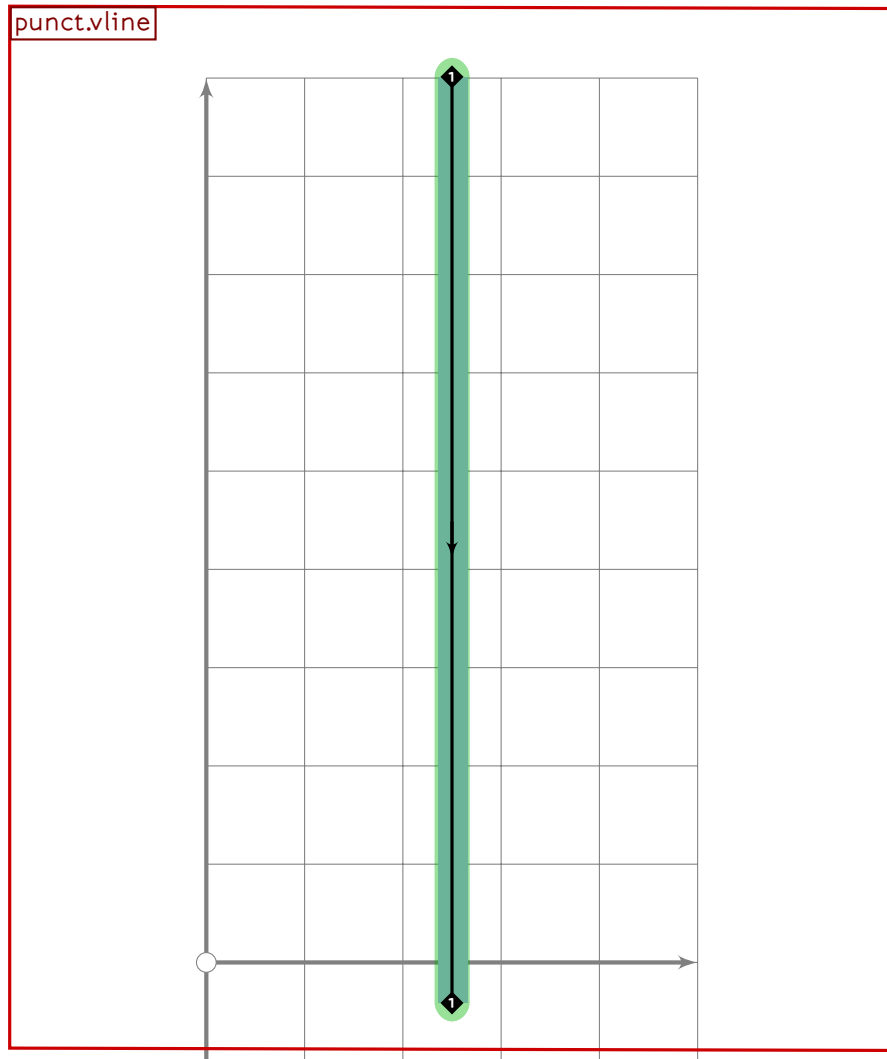
```


U+007B
tsuku.braceleft

00



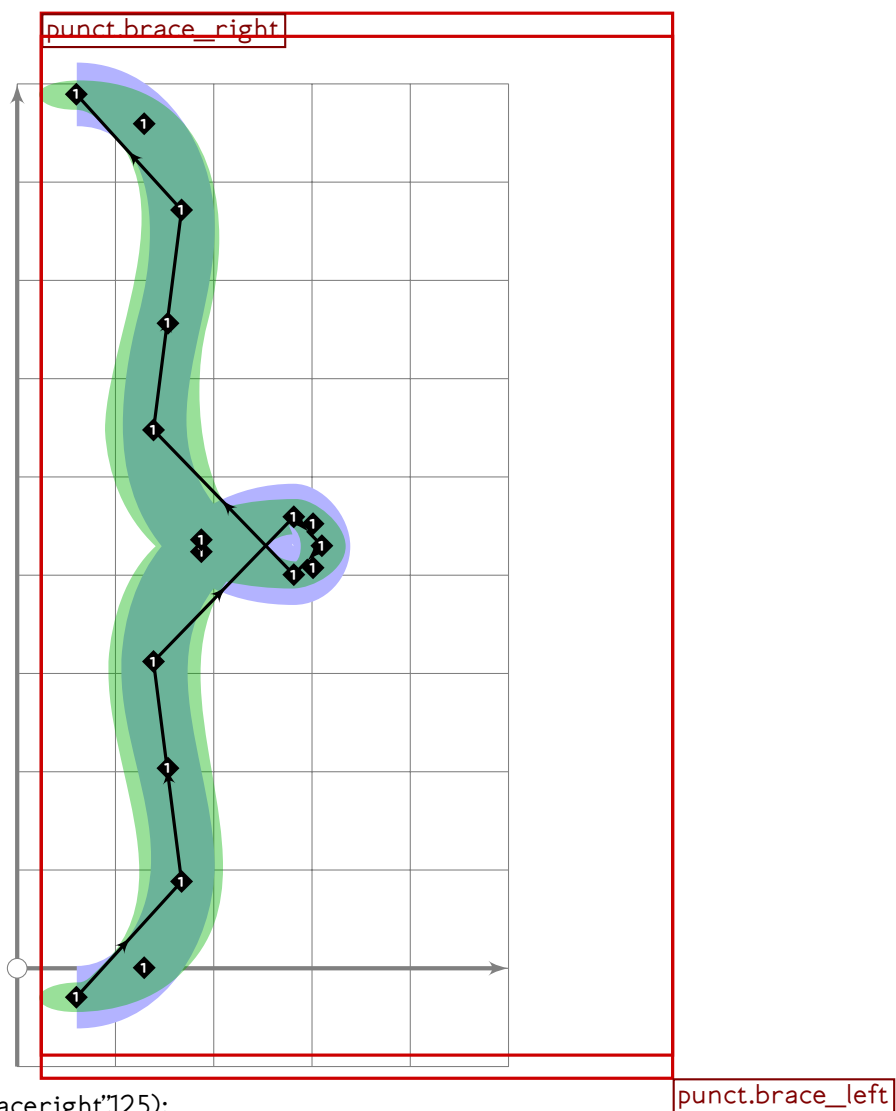
```
715 % left and right square brackets
716 beginsuglyph("braceleft",123);
717   punct.brace_left;
718   tsu_render;
719 endsuglyph;
```



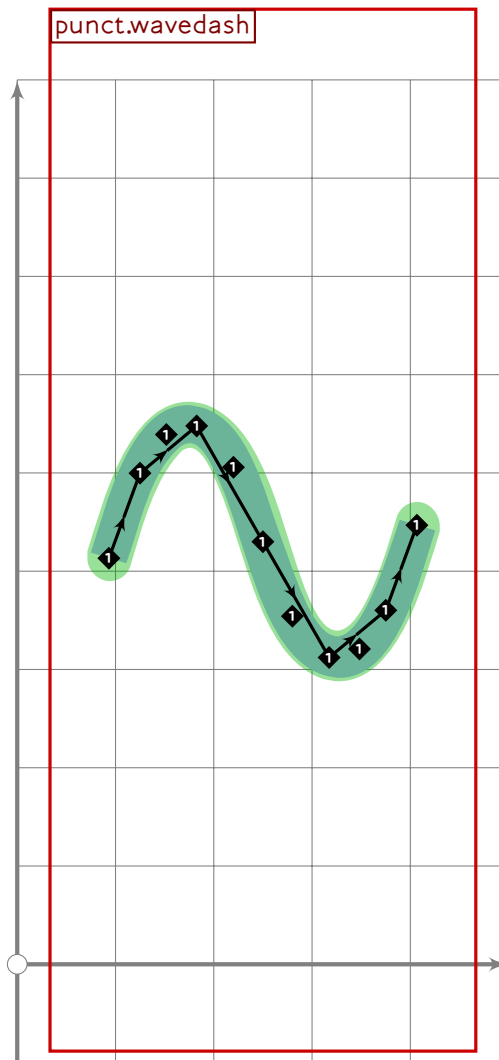
```
720 beginsuglyph("bar",124);  
721   punct.vline;  
722   tsu_render;  
723 endsuglyph;
```

U+007D
tsuku.braceright

00



```
724 begintsuglyph("braceright";125);  
725   punct.brace_right;  
726   tsu_render;  
727 endsuglyph;  
728
```



```

729 % "tilde" - rescaled "wave dash"
730 beginsuglyph("asciitilde";126);
731   punct.wavedash;
732   tsu_render;
733 endsuglyph;
734
735
736
737 % 007F through 009F are nonprinting control characters.
738 % 00A0 is a space, supplied by the make-font script later
739
740
741

```

Latin-1 Extra Characters

```

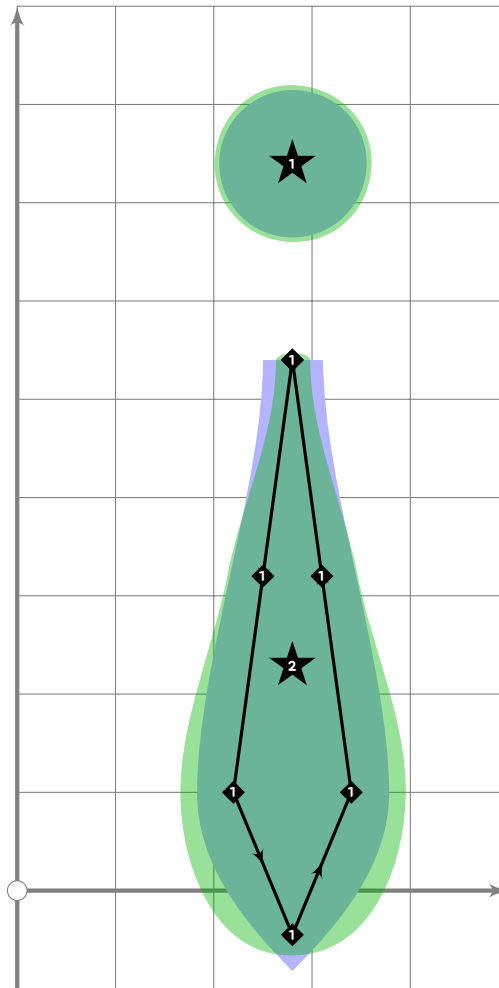
742 % LATIN-1 EXTRA CHARACTERS
743
744 transform tsu_xf.latin_one_supertsu_xf.latin_one_circled,
745   tsu_xf.latin_one_cbound;

```

```

746
747 if is_proportional:
748     xypart tsu_xf.latin_one_super=yxpart tsu_xf.latin_one_super=0;
749     xxpart tsu_xf.latin_one_super=yy part tsu_xf.latin_one_super=0.65;
750     (500,latin_wide_xheight_r) transformed tsu_xf.latin_one_super=
751         (500,2*latin_vcentre);
752
753     xypart tsu_xf.latin_one_circled=yxpart tsu_xf.latin_one_circled=0;
754     xxpart tsu_xf.latin_one_circled=yy part tsu_xf.latin_one_circled=0.5;
755     centre_pt transformed tsu_xf.latin_one_circled=centre_pt;
756
757     tsu_xf.latin_one_cbound=identity scaled 225 shifted centre_pt;
758
759 else:
760     xypart tsu_xf.latin_one_super=yxpart tsu_xf.latin_one_super=0;
761     xxpart tsu_xf.latin_one_super=yy part tsu_xf.latin_one_super=0.55;
762     (500,latin_wide_xheight_r) transformed tsu_xf.latin_one_super=
763         (250,2*latin_vcentre);
764
765     xypart tsu_xf.latin_one_circled=yxpart tsu_xf.latin_one_circled=0;
766     xxpart tsu_xf.latin_one_circled=yy part tsu_xf.latin_one_circled=0.333;
767     centre_pt transformed tsu_xf.latin_one_circled=(250,latin_vcentre);
768
769     tsu_xf.latin_one_cbound=identity scaled 150 shifted (250,latin_vcentre);
770 fi;
771
772 % inverted exclamation point
773 tsu_rescale_native_narrow;

```



```

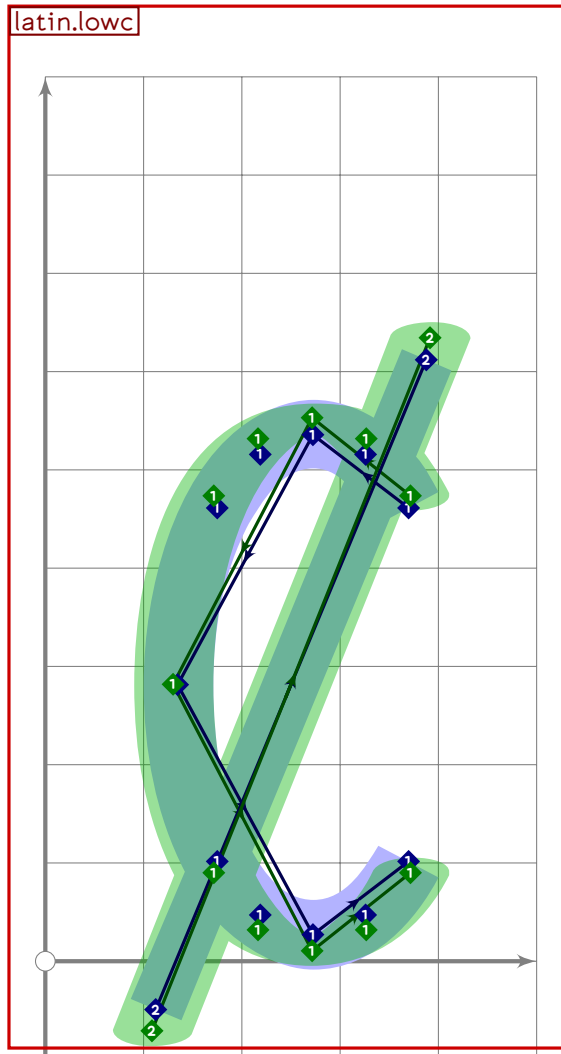
774 begint Suglyph("exclamdown",161);
775   if tsu_brush_max.brpunct*100>=(tsu_punct_size*0.5):
776     push_lcblob(fullcircle
777       xscaled (tsu_punct_size+tsu_brush_max.brpunct*100)
778       yscaled (tsu_punct_size+tsu_brush_max.brpunct*100*tsu_brush_shape.brpunct)
779       rotated tsu_brush_angle.brpunct
780       shifted (220,40)
781       rotatedaround ((250,390),180));
782   else:
783     push_stroke(fullcircle
784       scaled tsu_punct_size
785       shifted (220,40)
786       rotatedaround ((250,390),180),
787       (2,2)-(2,2)-(2,2)-(2,2));
788     if tsu_brush_max.brpunct>=0.3:
789       push_lcblob(get_stroke(0));
790     fi;
791   fi;
792
793   push_stroke(((220,240){up}..(280,680){up}..{curl 1}(220,825){curl 1}..
794     (160,680){down}..{down}(220,240))

```

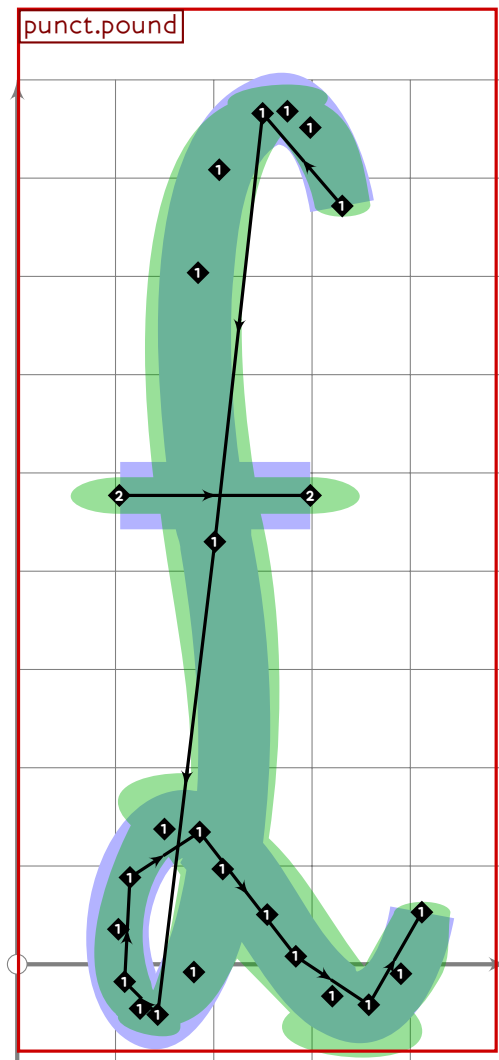
U+00A2
tsuku.cent

00

```
795     rotatedaround ((250,390),180),  
796     (1,1)–(2,2)–(2,2)–(2,2)–(1,1));  
797  
798     if tsu_brush_max.brpunct>=0.3:  
799         push_lcblob((subpath (0,1,3,9) of get_strokep(0))–cycle);  
800     fi;  
801  
802     tsu_render;  
803 endtsuglyph;  
804 tsu_rescale_half;
```



```
805  
806 begint Suglyph("cent";162);  
807     tsu_accent.apply(latin.lowc)(tsu_accent.slash);  
808     tsu_render;  
809 endtsuglyph;
```



```

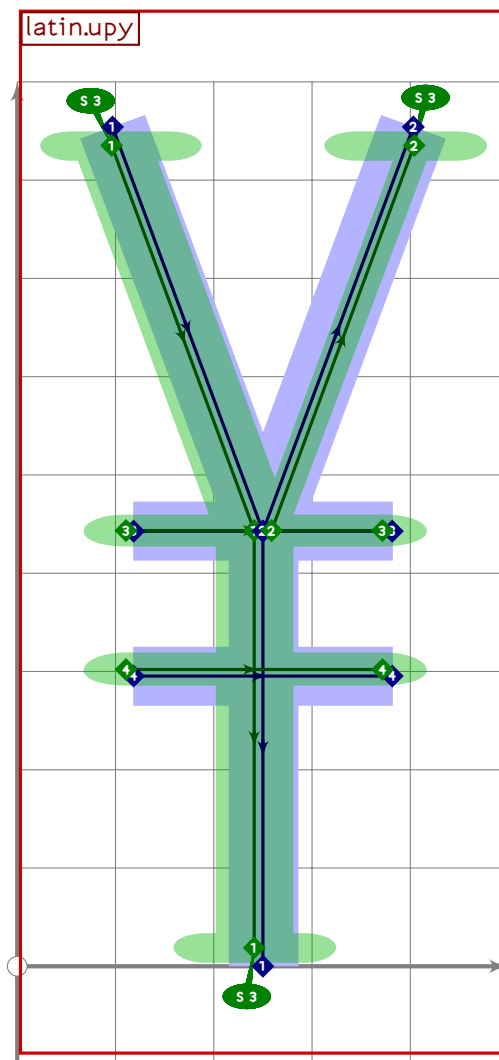
810
811 begintsuglyph("sterling",163);
812   punct.pound;
813   tsu_render;
814 endtsuglyph;
815
816 begintsuglyph("currency",164);
817   punct.currency;
818   tsu_render;
819 endtsuglyph;
820

```

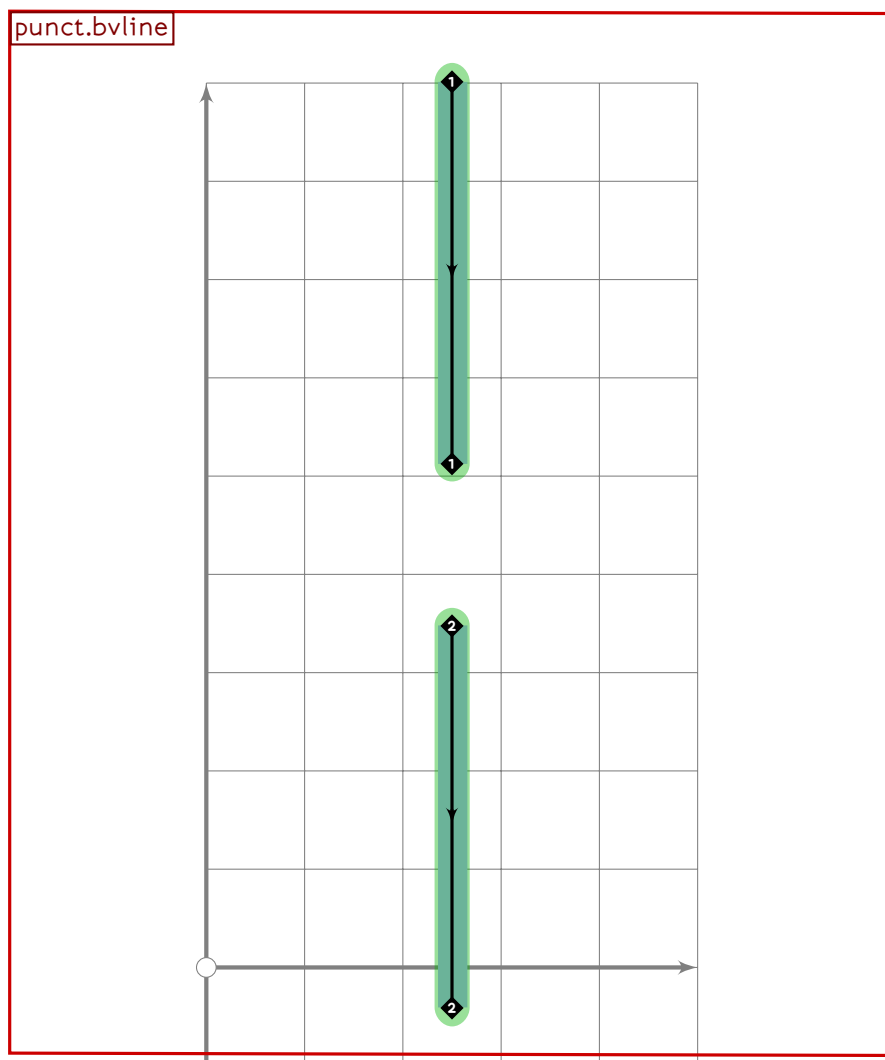
[see page 380]

U+00A5
tsuku.yen

00



```
821 % yen sign
822 beginsuglyph("yen",165);
823 latin.upy;
824 push_stroke(((−240,0)−(240,0)) shifted point 1 of get_strokep(−1),
825   (2,2)−(2,2));
826 set_bosize(0,80);
827 push_stroke(((−240,0)−(240,0)) shifted point 1.333 of get_strokep(−2),
828   (2,2)−(2,2));
829 set_bosize(0,80);
830 tsu_render;
831 endtsuglyph;
```



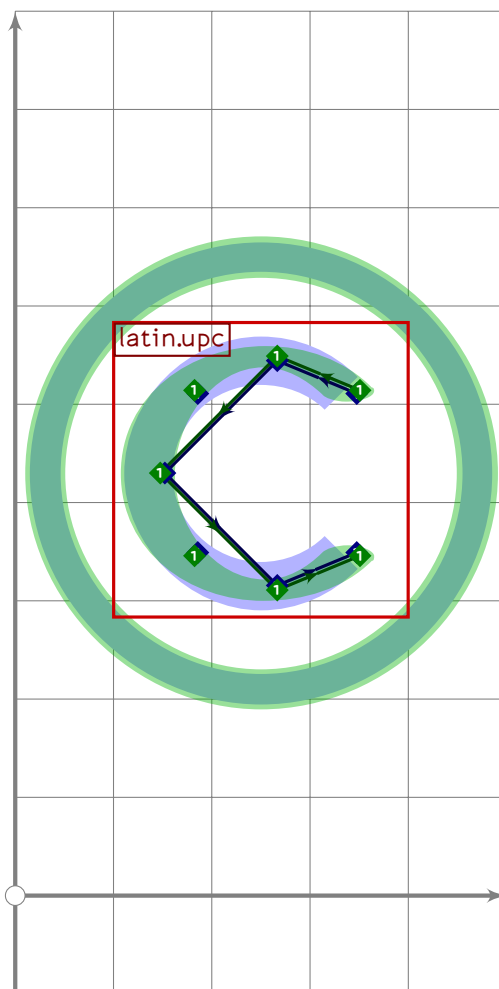
```

832
833 begintsuglyph("brokenbar",166);
834   punct.bvline;
835   tsu_render;
836 endsuglyph;
837
838 begintsuglyph("section",167);
839   punct.section;
840   tsu_render;
841 endsuglyph;
842
843 % naked umlaut
844 begintsuglyph("dieresis",168);
845   tsu_accent.umlaut;
846   tsu_render;
847 endsuglyph;
848
849 % WARNING, setting rescale
850 tsu_rescale_native_conditional;

```

[see page 402]

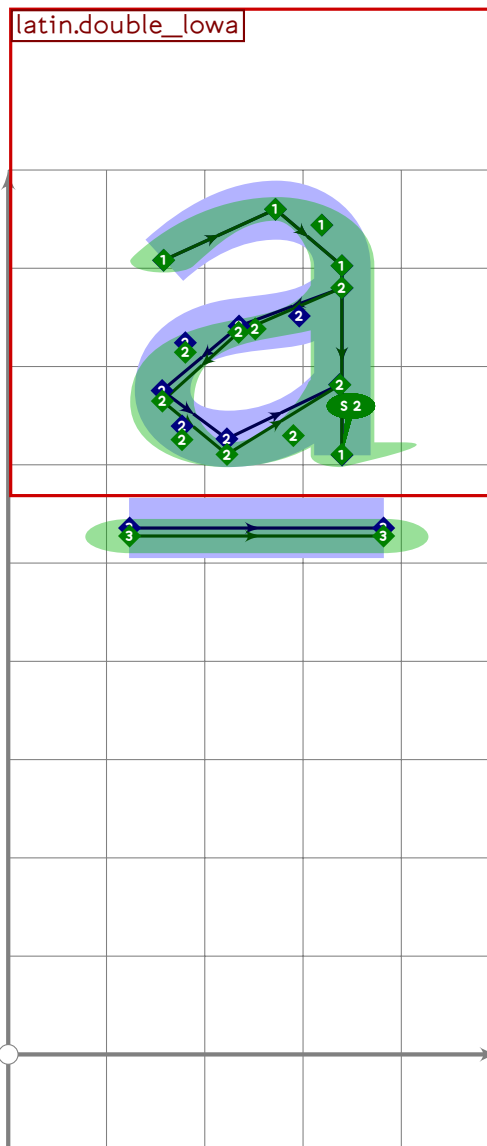
[see page 112]



```

851
852 begintsuglyph("copyright",169);
853   Fill fullcircle scaled (1320+120*tsu_brush_max.brletter) shifted centre_pt
854     transformed tsu_xf.latin_one_circled;
855   unFill reverse fullcircle scaled (1320-120*tsu_brush_max.brletter)
856     shifted centre_pt transformed tsu_xf.latin_one_circled;
857   tsu_xform(tsu_xf.latin_one_circled)(latin.upc);
858   tsu_render_in_circle(tsu_xf.latin_one_cbound);
859 endtsuglyph;

```



```

860
861 begintsuglyph("ordfeminine",170);
862   tsu_xform(tsu_xf.latin_one_super)(
863     latin.low_a;
864     push_stroke((270,-110)-(740,-110),(2,2)-(2,2));
865     set_bosize(0,get_bosize(-1));
866     tsu_render;
867 endtsuglyph;
868
869 % WARNING, changing rescale setting
870 tsu_rescale_half;
871
872 begintsuglyph("guillemotleft",171);
873   punct.guillemet_left;
874   tsu_render;
875 endtsuglyph;
876

```

[see page 388]

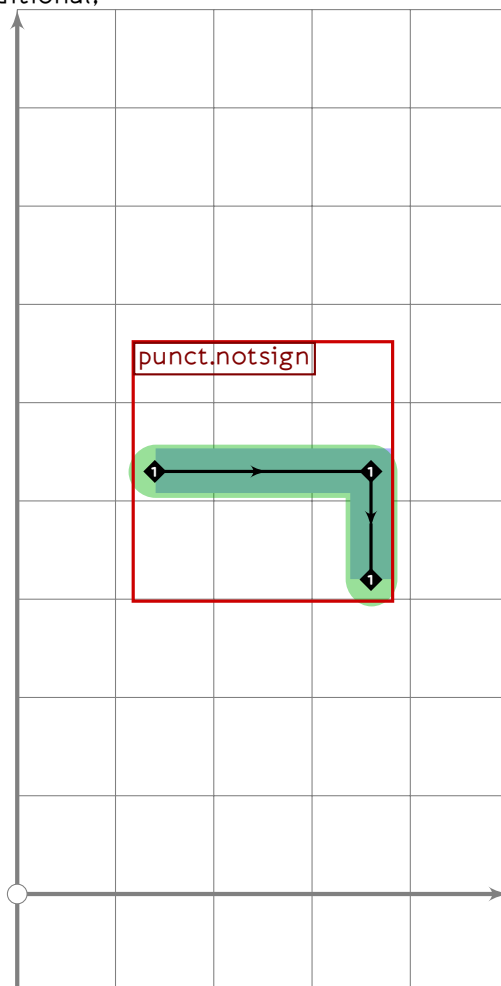
U+00AC

tsuku.logicalnot

877 % WARNING, setting rescale

878 tsu_rescale_native_conditional;

00



879

880 begintsuglyph("logicalnot",172);

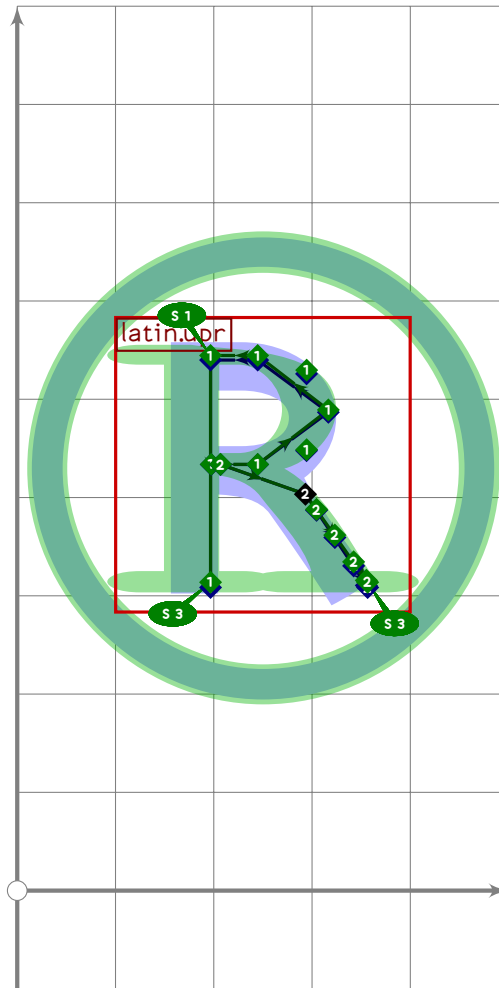
881 punct.notsign(ascii_punct_xf);

882 tsu_render;

883 endtsuglyph;

884

885 % soft hyphen is a zero-width space and added by make-font script



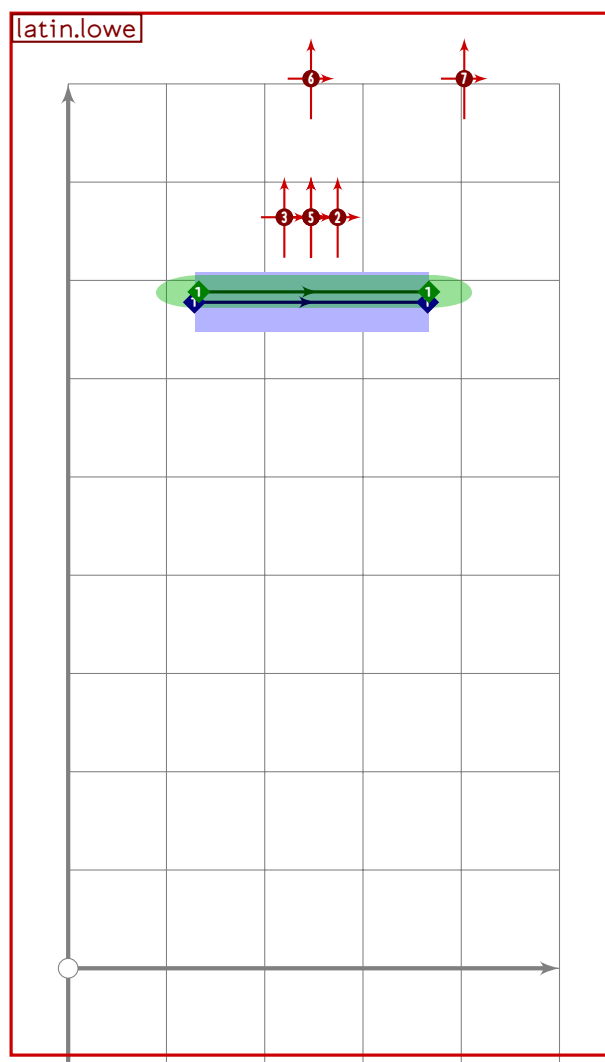
```

886
887 begintsuglyph("registered",174);
888   Fill fullcircle scaled (1320+120*tsu_brush_max.brletter) shifted centre_pt
889     transformed tsu_xf.latin_one_circled;
890   unFill reverse fullcircle scaled (1320-120*tsu_brush_max.brletter)
891     shifted centre_pt transformed tsu_xf.latin_one_circled;
892   tsu_xform(tsu_xf.latin_one_circled)(latin.upr);
893   tsu_render_in_circle(tsu_xf.latin_one_cbound);
894 endtsuglyph;
895
896 % WARNING, setting rescale
897 tsu_rescale_half;
898

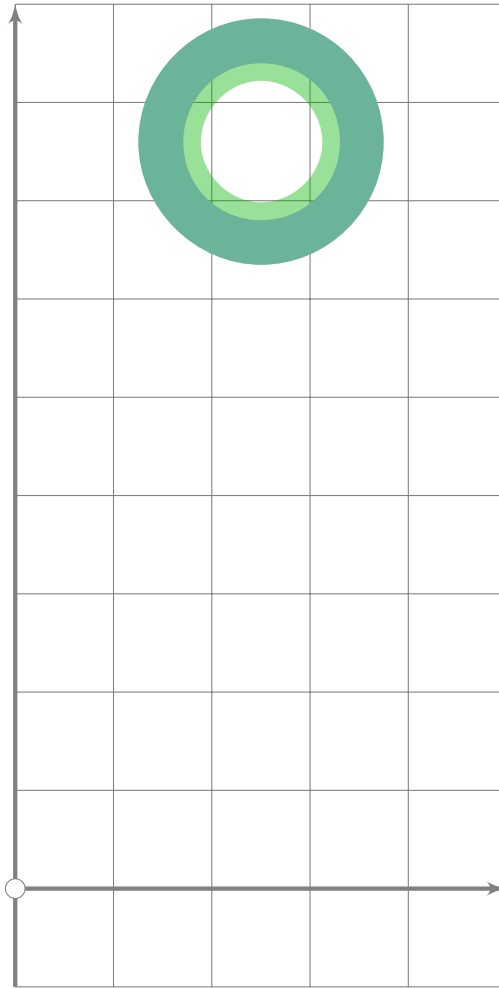
```

U+00AF
tsuku.macron

00



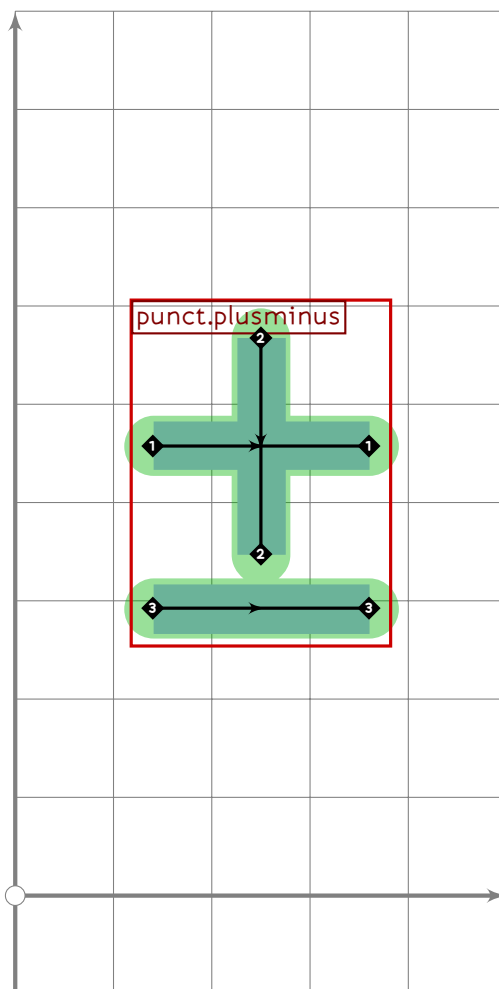
```
899 % naked macron
900 beginsuglyph("macron",175);
901   tsu_accent.apply(latin.lowe;set_bosize(0,0))(tsu_accent.macron);
902   tsu_render;
903 endsuglyph;
904
905 % WARNING, setting rescale
906 tsu_rescale_native_conditional;
```



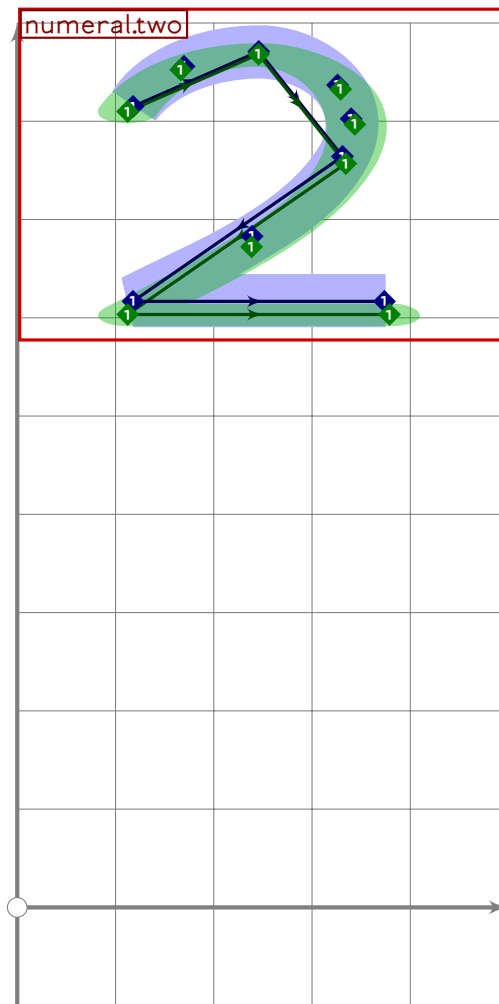
```
907
908 begint Suglyph("degree",176);
909   Fill fullcircle scaled (2.5*tsu_punct_size) shifted (250,760);
910   unFill reverse fullcircle
911     scaled (2.5*tsu_punct_size-120*tsu_brush_max.brletter) shifted (250,760);
912 endtsuglyph;
```


U+00B1
tsuku.plusminus

00



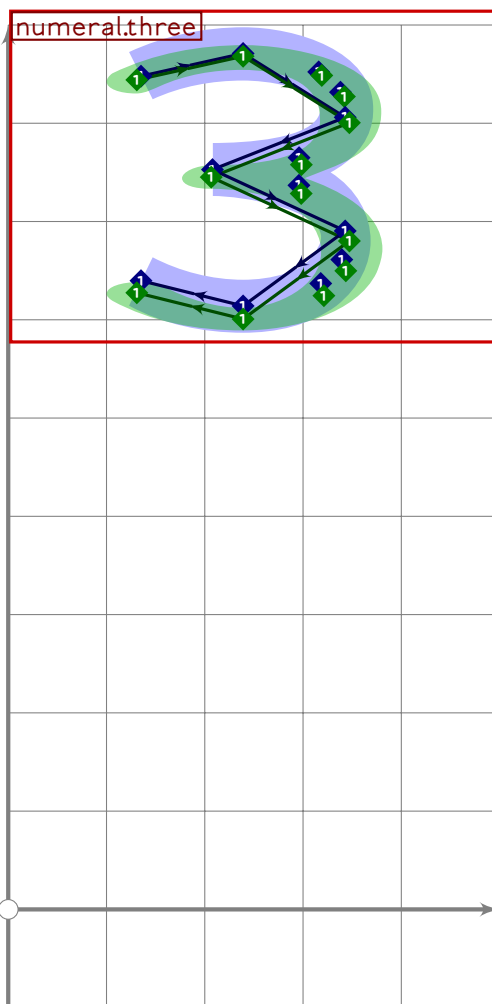
```
913
914 begint Suglyph("plusminus";177);
915   punct.plusminus(ascii_punct_xf);
916   tsu_render;
917 endtsuglyph;
```



```
918
919 begintsuglyph("uni00B2";178);
920 tsu_xform(identity yscaled 0.68 transformed tsu_xf.latin_one_super)(
921   numeral.two);
922 tsu_render;
923 endtsuglyph;
```

U+00B3
tsuku.uni00B3

00



```
924
925 begintsuglyph("uni00B3";179);
926   tsu_xform(identity yscaled 0.68 transformed tsu_xf.latin_one_super)(
927     numeral.three);
928   tsu_render;
929 endtsuglyph;
930
931 % WARNING, changing rescale setting
932 tsu_rescale_half;
933
934 % naked acute
935 begintsuglyph("acute";180);
936   tsu_accent.acute;
937   tsu_render;
938 endtsuglyph;
939
940 % micro
941 begintsuglyph("mu";181);
942   punct.micro;
943   tsu_render;
944 endtsuglyph;
```

[see page 104]

[see page 391]

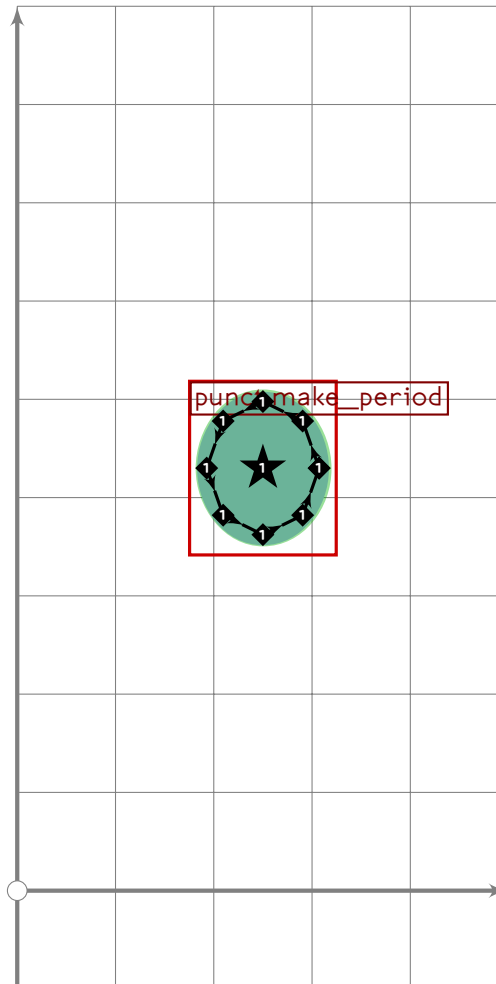
[see page 398]

00

```

945
946 % pilcrow
947 begint Suglyph("paragraph",182);
948   punct.pilcrow;
949   tsu_render;
950 endtsuglyph;
951

```



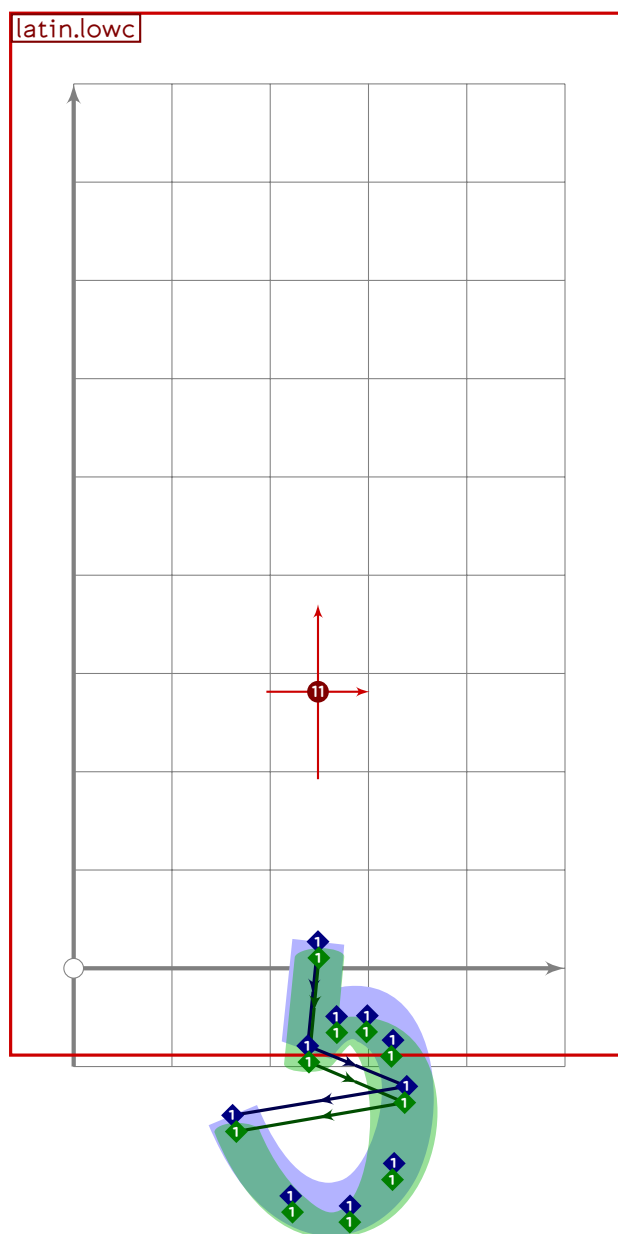
```

952 % period at centre
953 begint Suglyph("periodcentered",183);
954   punct.make_period(centre_pt);
955   tsu_render;
956 endtsuglyph;
957

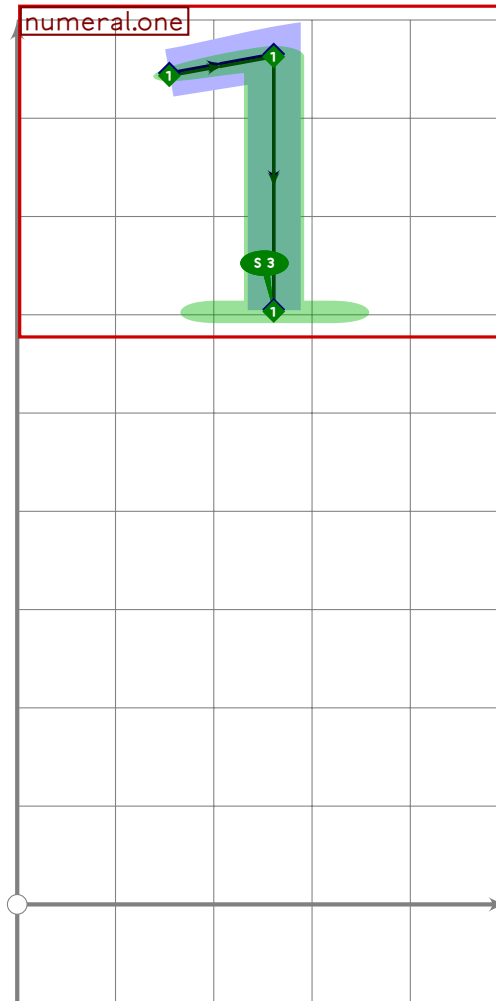
```

U+00B8
tsuku.cedilla

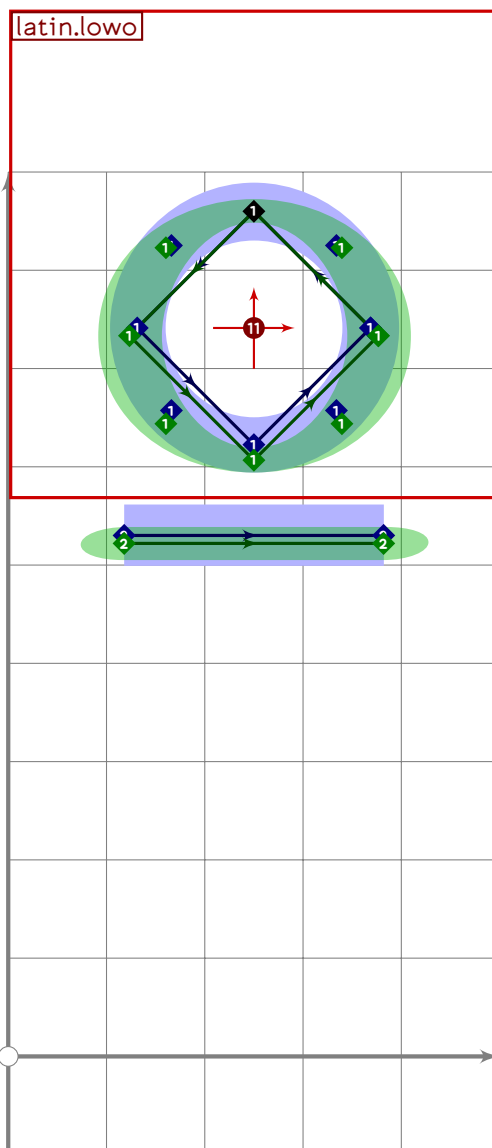
00



```
958 % naked cedilla
959 begint Suglyph("cedilla",184);
960   tsu_accent.apply(latin.lowc;set_bosize(0,0))(tsu_accent.cedilla);
961   tsu_render;
962 endtsuglyph;
963
964 % WARNING, changing rescale setting
965 tsu_rescale_native_conditional;
```



```
966
967 begint Suglyph("uni00B9";185);
968   tsu_xform(identity yscaled 0.68 transformed tsu_xf.latin_one_super)(
969     numeral.one);
970   tsu_render;
971 endtsuglyph;
```



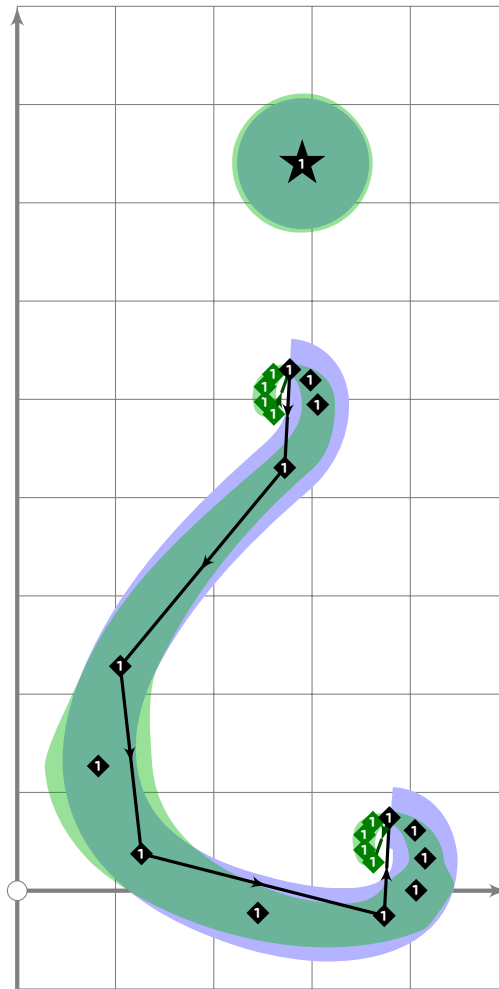
```

972
973 beginsuglyph("ordmasculine",186);
974   tsu_xform(tsu_xf.latin_one_super)(
975     latin.owo;
976     push_stroke((260,120)-(740,120),(2,2)-(2,2)));
977   tsu_render;
978 endtsuglyph;
979
980 % WARNING, changing rescale setting
981 tsu_rescale_half;
982
983 beginsuglyph("guillemotright",187);
984   punct.guillemet_right;
985   tsu_render;
986 endtsuglyph;
987
988 % WARNING, changing rescale setting

```

[see page 389]

```
989 tsu_rescale_native_conditional;
990
```



```
991 % question mark
992 begint Suglyph("questiondown",191);
993 if tsu_brush_max.brpunct*100>=(tsu_punct_size*0.5):
994     push_lcblob(fullcircle
995         xscaled ((tsu_punct_size+tsu_brush_max.brpunct*100)*0.89)
996         yscaled ((tsu_punct_size+tsu_brush_max.brpunct*100*tsu_brush_shape.brpunct)*0.89)
997         rotated tsu_brush_angle.brpunct
998         shifted (210,40)
999         rotatedaround ((250,390),180));
1000 else:
1001     push_stroke(fullcircle scaled tsu_punct_size shifted (210,40)
1002         rotatedaround ((250,390),180),
1003         (1,1)..(2,2)..(2,2)..(1,1));
1004     if tsu_brush_max.brpunct>=0.3:
1005         push_lcblob(get_stroke(0));
1006     fi;
1007 fi;
1008 r:=tsu_punct_size/2;
1009
```



```

1010   push_stroke((210,300){right}..(210,300-r){left}..
1011             (210,300+r)..(210+2.5*r,750)..
1012             tension 1.3..(210-2.5*r,750+r)..
1013             (210-2.5*r,750-r){right}..
1014             (210-2.5*r,750){left},
1015             (0.8,0.8)-(1,1)-(2,2)-(2,2)-(2,2)-(2,2)-(1,1)-(0.8,0.8));
1016   replace__strokep(0)(insert__nodes(oldp)(2.5)
1017     rotatedaround ((210,10),-3) rotatedaround ((250,390),180));
1018
1019   tsu__render;
1020 endtsuglyph;
1021
1022 _____
1023

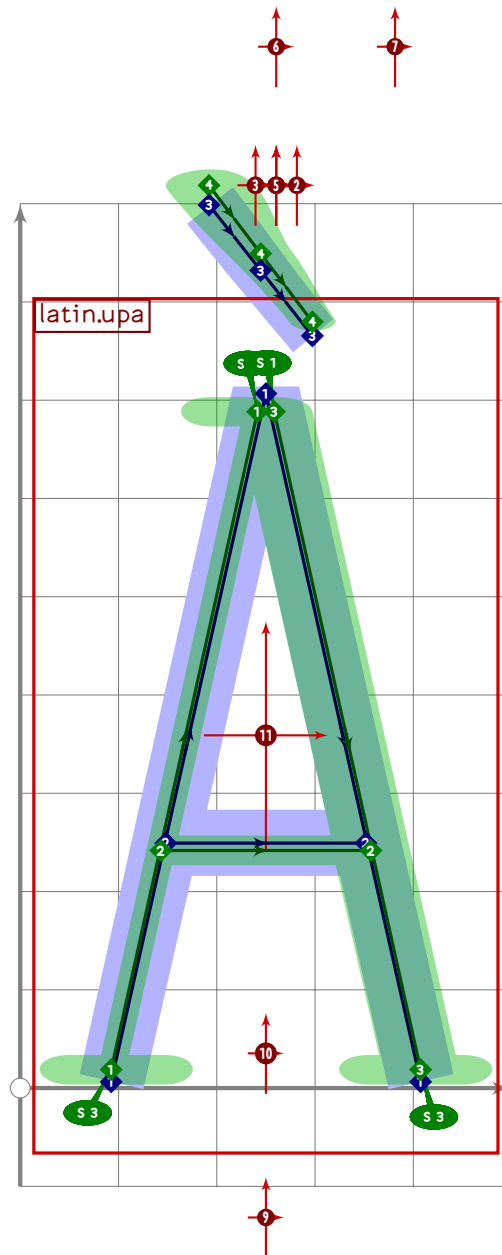
```

Accented Latin

```

1024 % ACCENTED LATIN
1025
1026 % WARNING, setting rescale
1027 tsu__rescale_half;
1028 tsu__accent.up_default_anchors;
1029

```



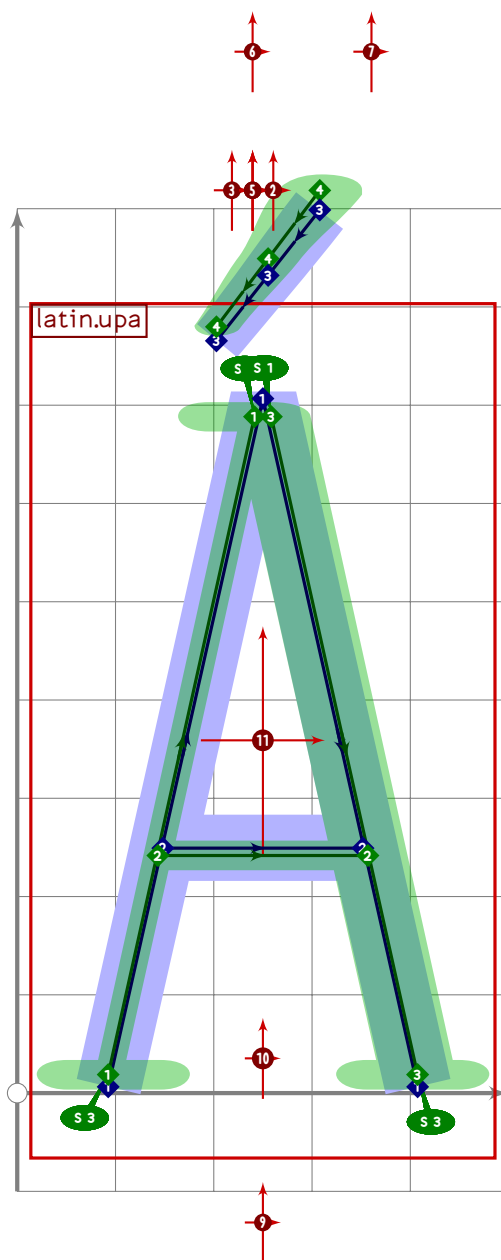
```

1030 % A with grave
1031 begintsuglyph("Agrave";192);
1032 tsu_accent.apply(tsu_accent.capital(latin.upa))(tsu_accent.grave);
1033 tsu_render;
1034 endtsuglyph;
1035

```

U+00C1
tsuku.Aacute

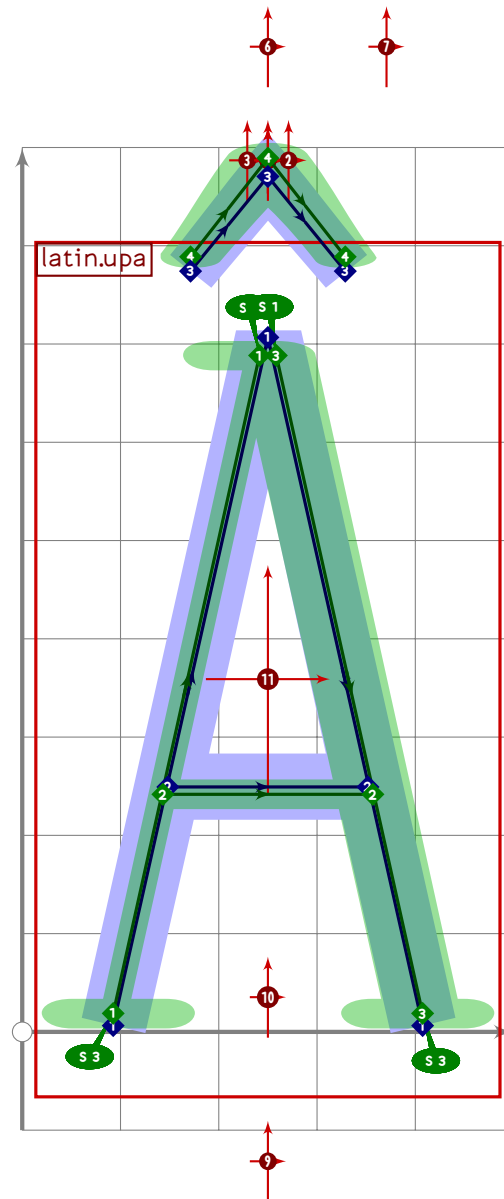
00



```

1036 % A with acute
1037 begintsuglyph("Aacute",193);
1038   tsu_accent.apply(tsu_accent.capital(latin.upa))(tsu_accent.acute);
1039   tsu_render;
1040 endtsuglyph;
1041

```



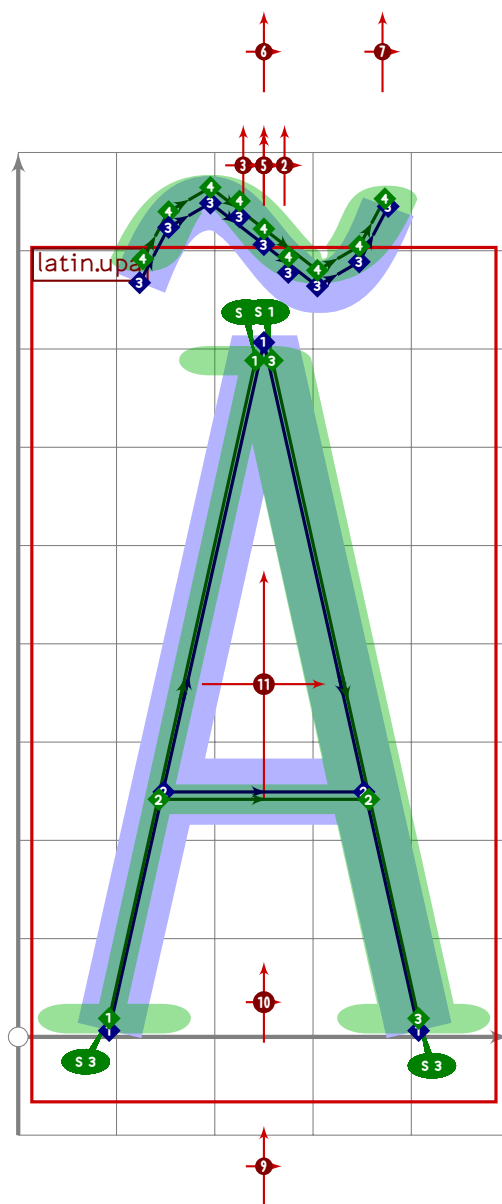
```

1042 % A with circumflex
1043 begint Suglyph("Acircumflex",194);
1044   tsu_accent.apply(tsu_accent.capital(latin.upa))(tsu_accent.circumflex);
1045   tsu_render;
1046 endtsuglyph;
1047

```

U+00C3
tsuku.Atilde

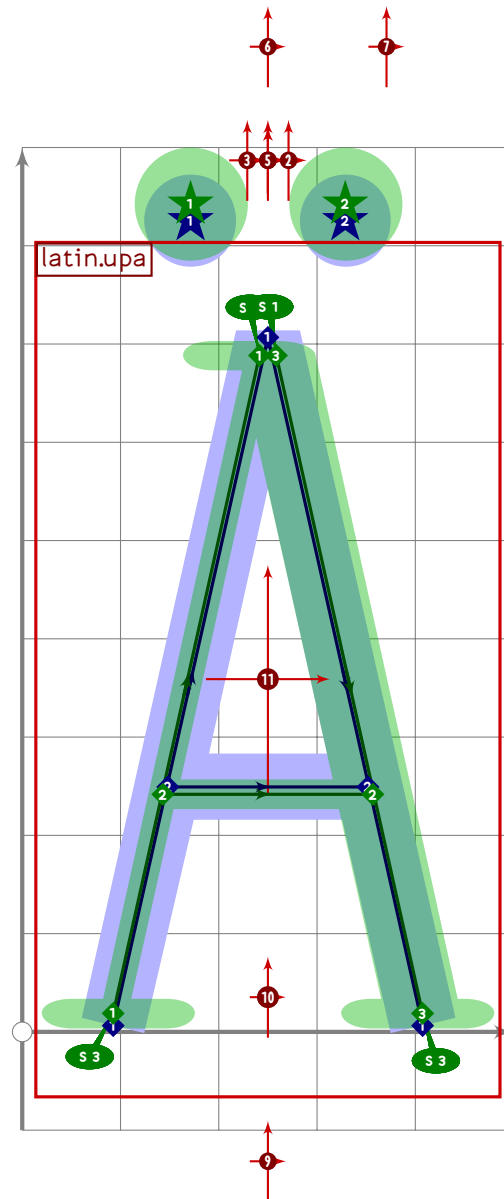
00



```

1048 % A with tilde
1049 begintsuglyph("Atilde",195);
1050   tsu_accent.apply(tsu_accent.capital(latin.upa))(tsu_accent.tilde);
1051   tsu_render;
1052 endtsuglyph;
1053

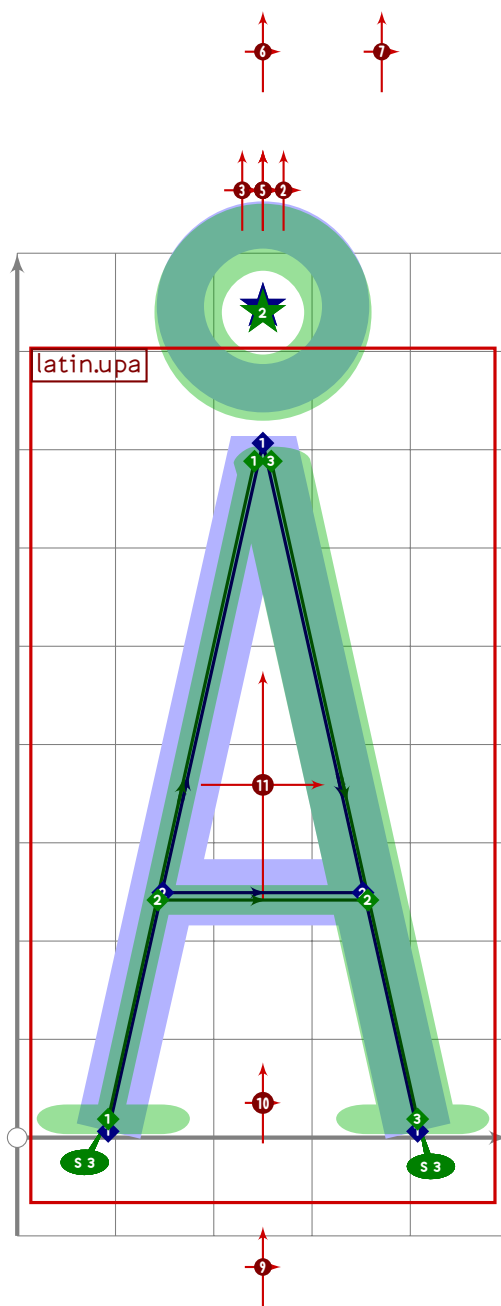
```



```

1054 % A with dieresis/umlaut
1055 begint Suglyph("Adieresis",196);
1056   tsu_accent.apply(tsu_accent.capital(latin.upa))(tsu_accent.umlaut);
1057   tsu_render;
1058 endtsuglyph;
1059

```



```

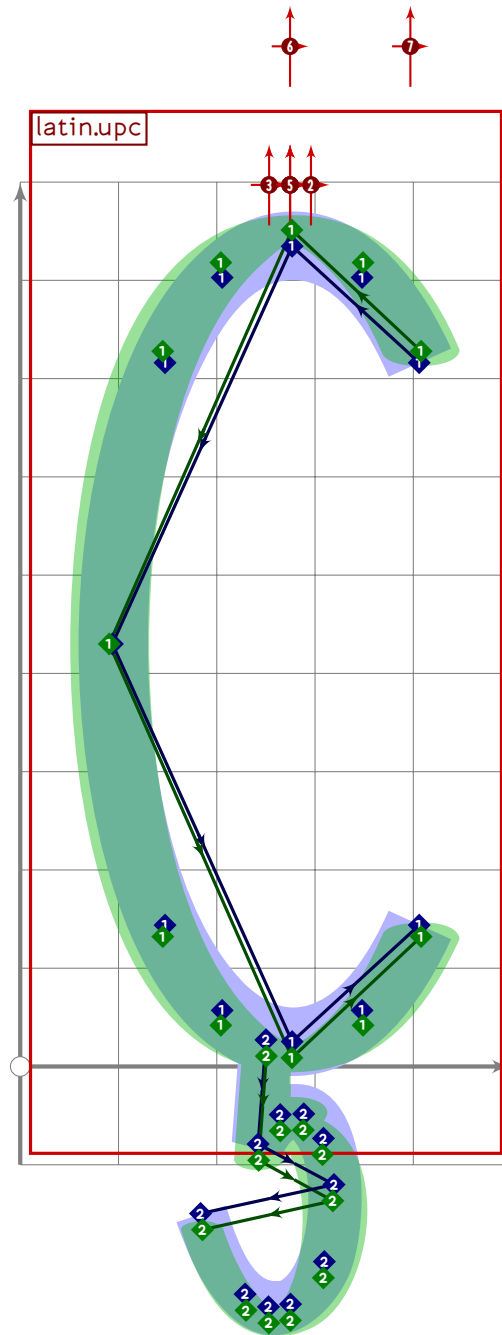
1060 % A with ring above
1061 begintsuglyph("Aring",197);
1062 tsu_accent.apply(tsu_accent.capital(latin.upa))(tsu_accent.ringabove);
1063 if do_alteration:
1064     set_boserif(-2,1,whatever);
1065     set_boserif(0,0,whatever);
1066 else:
1067     set_boserif(-1,1,whatever);
1068 fi;
1069 tsu_render;
1070 endtsuglyph;
1071
1072 % AE ligature

```

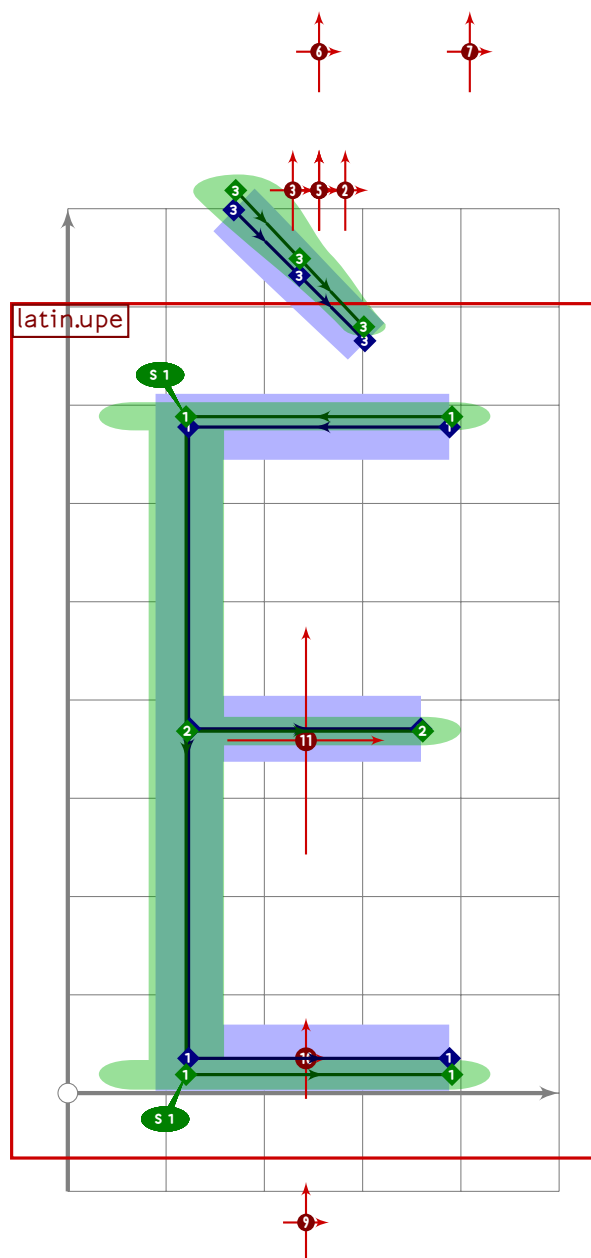
[see page 259]

00

```
1073 begint Suglyph("AE",198);
1074 latin.upae;
1075 tsu_render;
1076 endtsuglyph;
1077
```



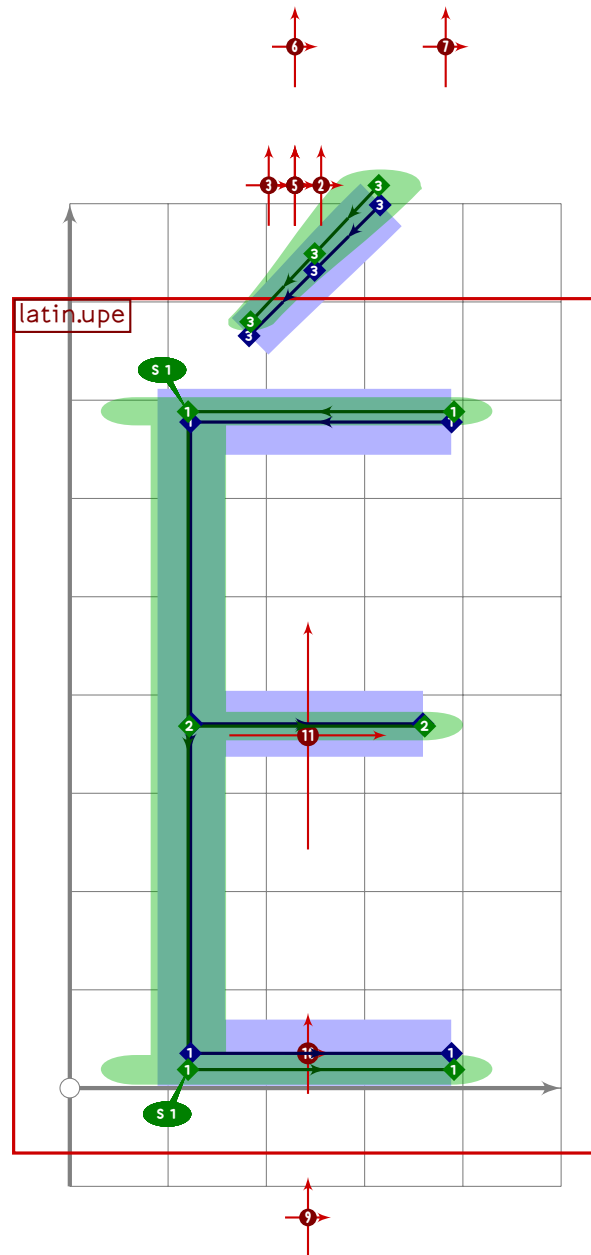
```
1078 % C with cedilla
1079 begint Suglyph("Ccedilla",199);
1080 tsu_accent.apply(latin.upc)(tsu_accent.cedilla);
1081 tsu_render;
1082 endtsuglyph;
1083
```

```

1084 % E with grave
1085 begint Suglyph("Egrave";200);
1086 tsu_accent.apply(tsu_accent.capital(latin.upe))(tsu_accent.grave);
1087 tsu_render;
1088 endtsuglyph;
1089

```



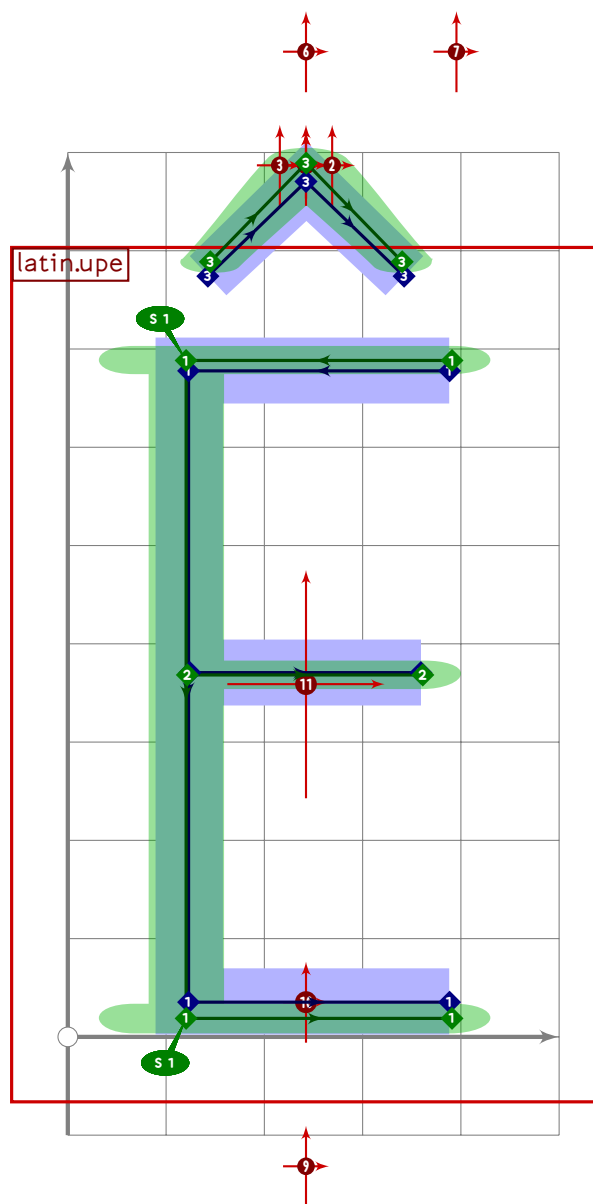
```

1090 % E with acute
1091 begint Suglyph("Eacute";201);
1092   tsu_accent.apply(tsu_accent.capital(latin.upe))(tsu_accent.acute);
1093   tsu_render;
1094 endtsuglyph;
1095

```

U+00CA
tsuku.Ecircumflex

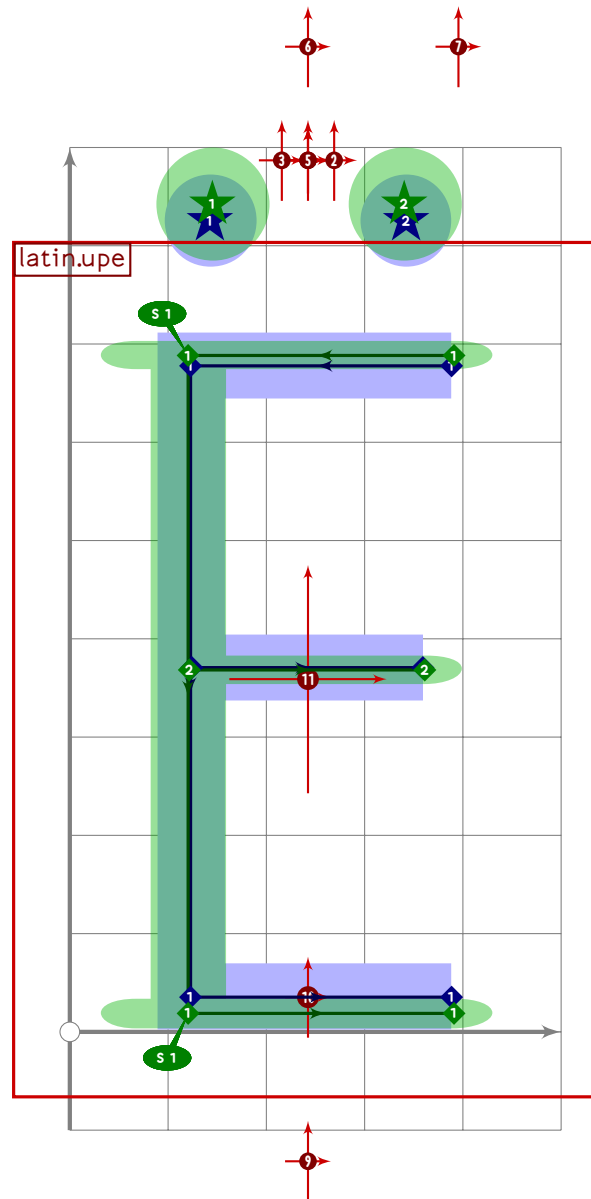
00



```

1096 % E with circumflex
1097 begint Suglyph("Ecircumflex";202);
1098   tsu_accent.apply(tsu_accent.capital(latin.upe))(tsu_accent.circumflex);
1099   tsu_render;
1100 endtsuglyph;
1101

```



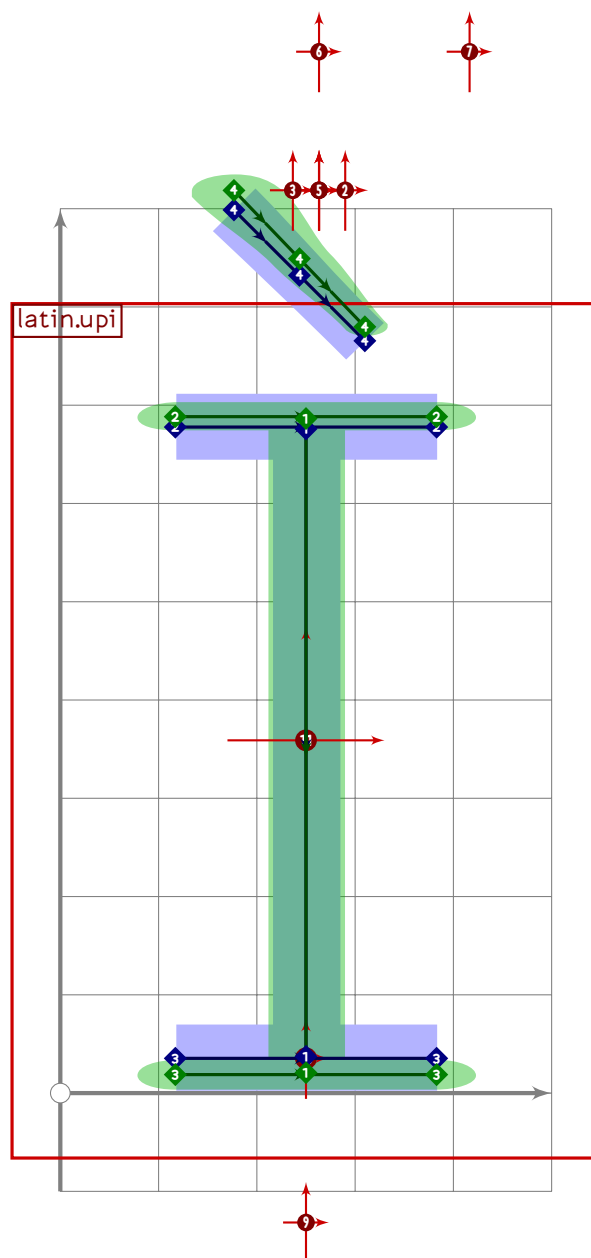
```

1102 % E with dieresis/umlaut
1103 begint Suglyph("Edieresis",203);
1104   tsu_accent.apply(tsu_accent.capital(latin.upe))(tsu_accent.umlaut);
1105   tsu_render;
1106 endtsuglyph;
1107

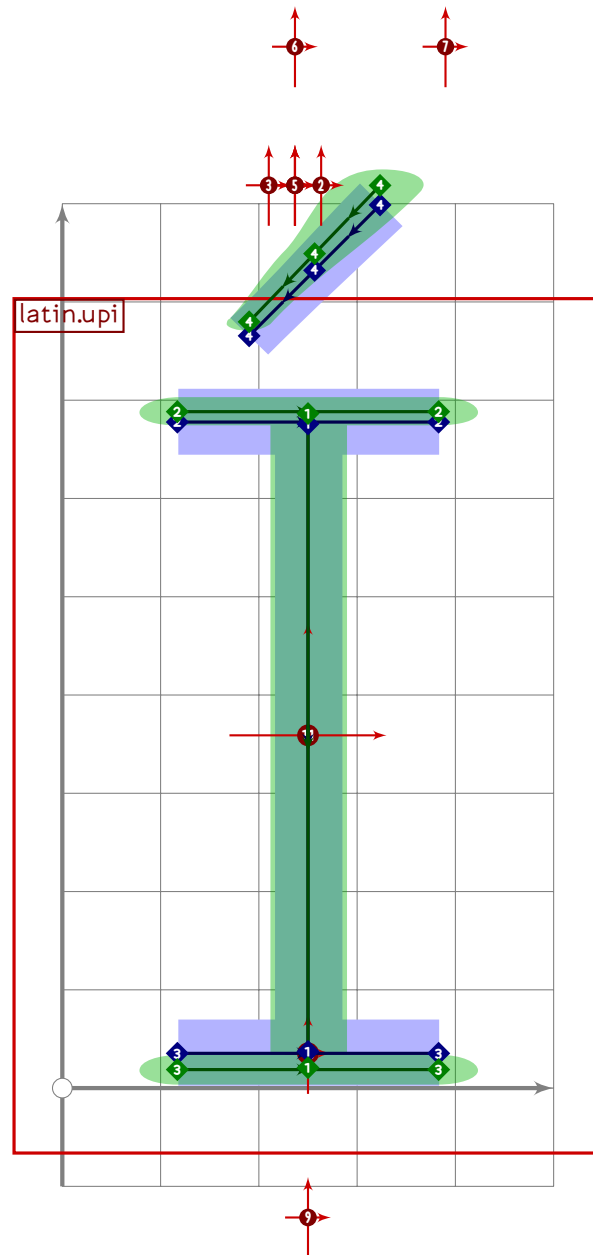
```

U+00CC
tsuku.Igrave

00



```
1108 % I with grave
1109 begintsuglyph("Igrave";204);
1110 tsu_accent.apply(tsu_accent.capital(latin.upi))(tsu_accent.grave);
1111 tsu_render;
1112 endtsuglyph;
1113
```

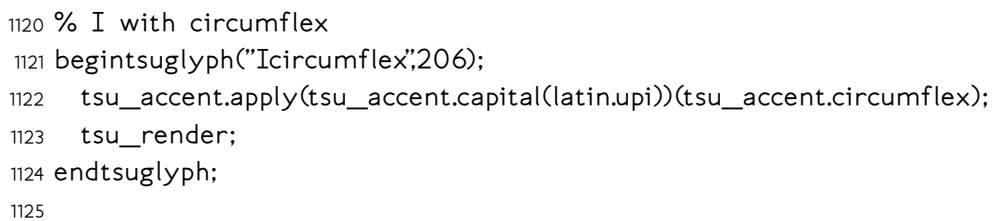


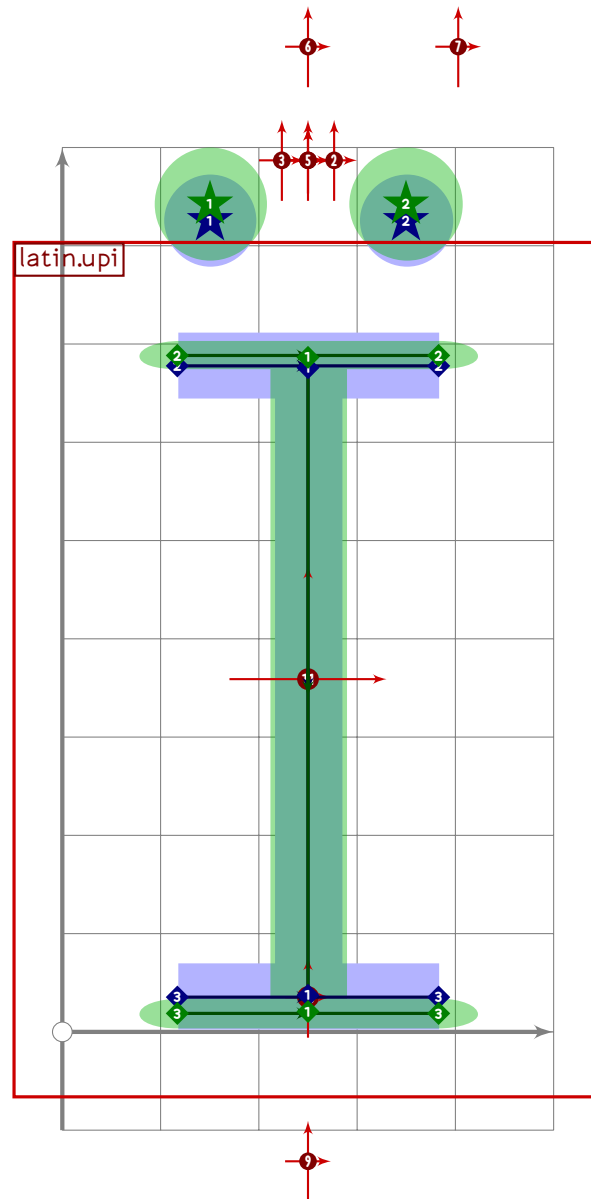
```

1114 % I with acute
1115 begint Suglyph("Iacute";205);
1116   tsu_accent.apply(tsu_accent.capital(latin.upi))(tsu_accent.acute);
1117   tsu_render;
1118 endtsuglyph;
1119

```

00





```

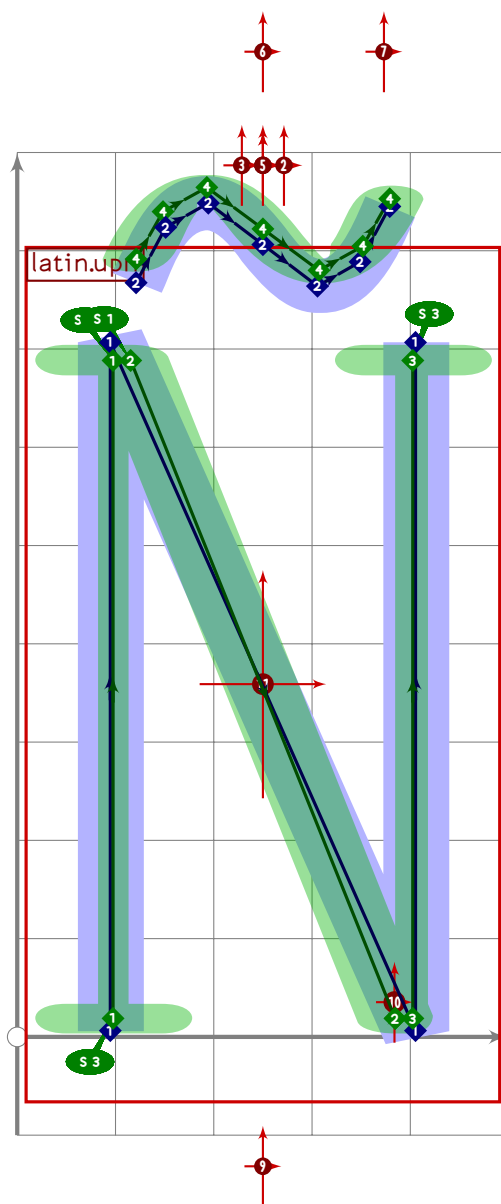
1126 % I with dieresis/umlaut
1127 begintsuglyph("Idieresis";207);
1128 tsu_accent.apply(tsu_accent.capital(latin.upi))(tsu_accent.umlaut);
1129 tsu_render;
1130 endtsuglyph;
1131
1132 % uppercase Icelandic Eth
1133 begintsuglyph("Eth";208);
1134 latin.upeth;
1135 tsu_render;
1136 endtsuglyph;
1137

```

[see page 265]

U+00D1
tsuku.Ntilde

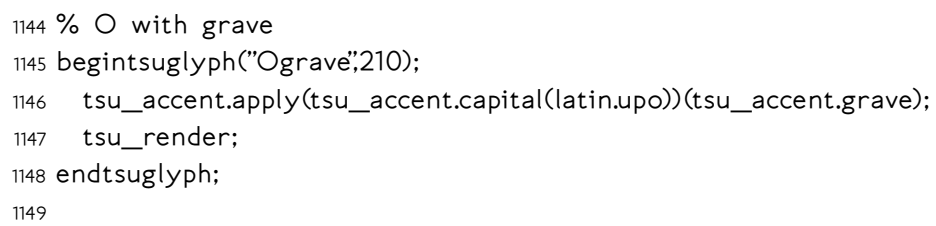
00

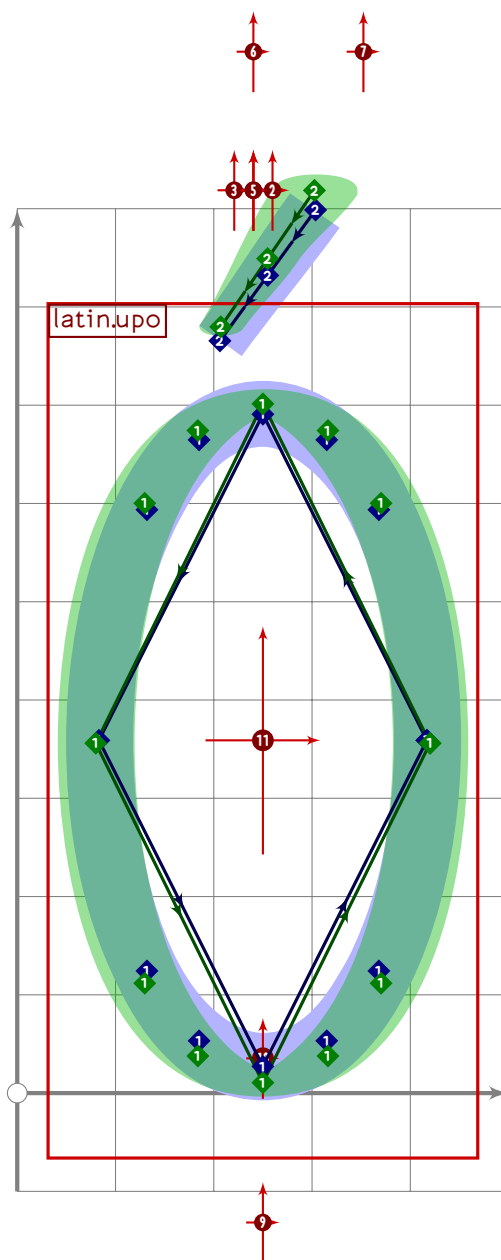


```

1138 % N with tilde
1139 begintsuglyph("Ntilde";209);
1140   tsu_accent.apply(tsu_accent.capital(latin.upn))(tsu_accent.tilde);
1141   tsu_render;
1142 endtsuglyph;
1143

```

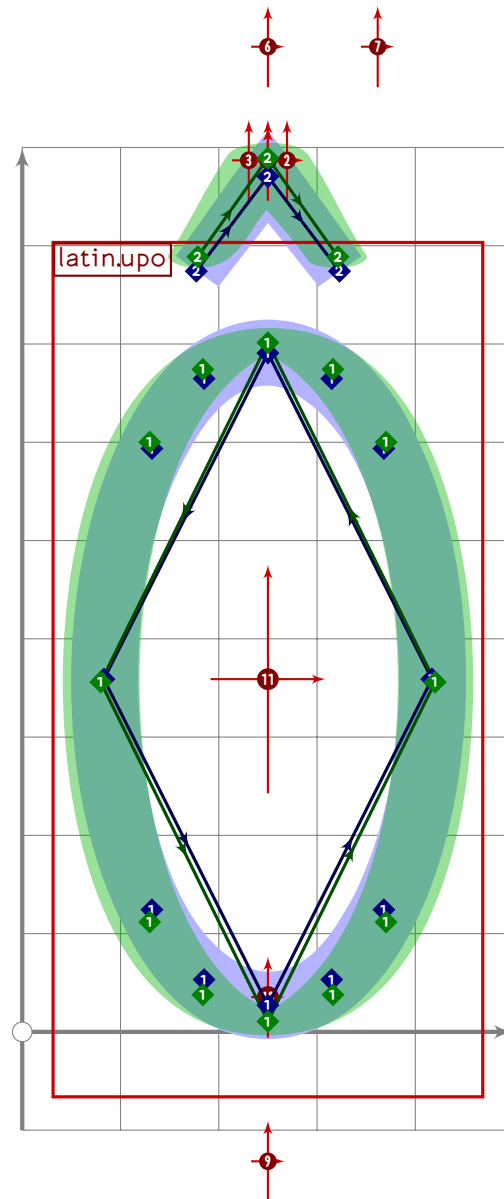




```

1150 % O with acute
1151 begintsuglyph("Oacute";211);
1152 tsu_accent.apply(tsu_accent.capital(latin.upo))(tsu_accent.acute);
1153 tsu_render;
1154 endtsuglyph;
1155

```



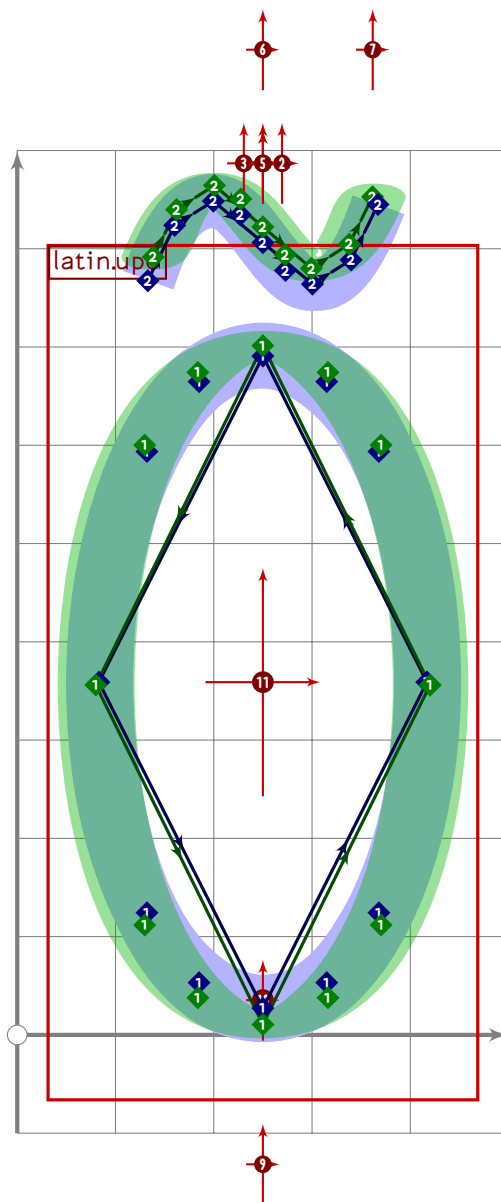
```

1156 % O with circumflex
1157 begintsuglyph("Ocircumflex";212);
1158   tsu_accent.apply(tsu_accent.capital(latin.upo))(tsu_accent.circumflex);
1159   tsu_render;
1160 endtsuglyph;
1161

```

U+00D5
tsuku.Otilde

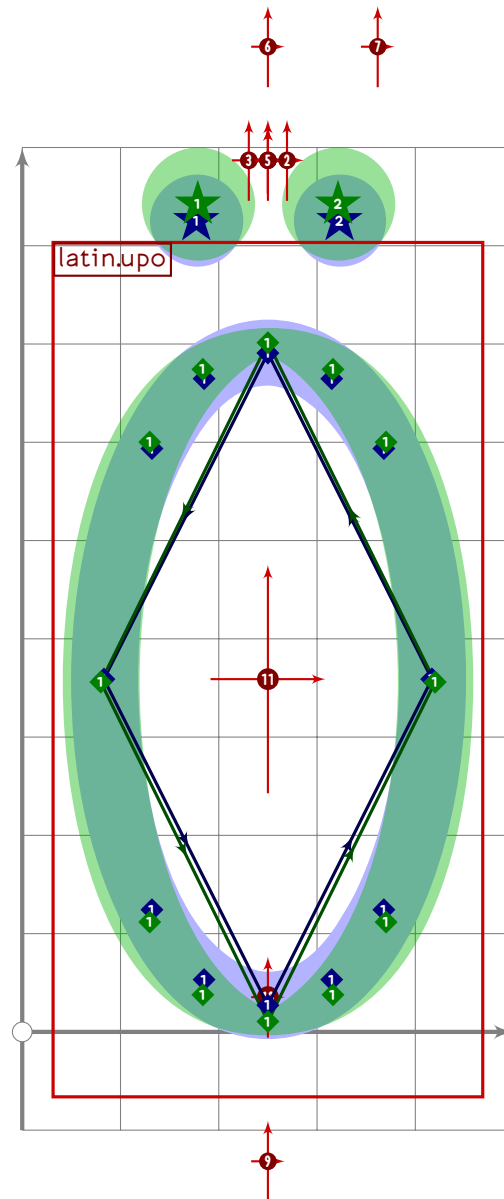
00



```

1162 % O with tilde
1163 begintsuglyph("Otilde";213);
1164   tsu_accent.apply(tsu_accent.capital(latin.upo))(tsu_accent.tilde);
1165   tsu_render;
1166 endtsuglyph;
1167

```



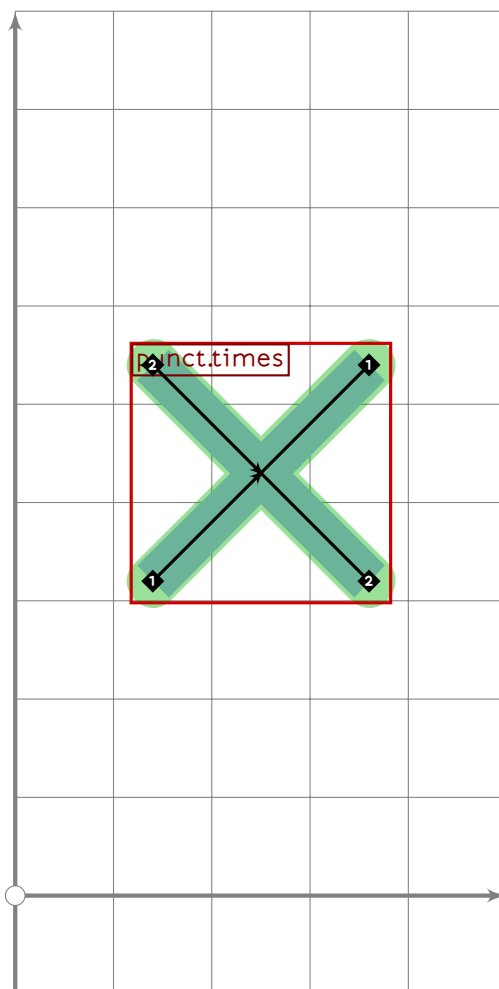
```

1168 % O with dieresis/umlaut
1169 begintsuglyph("Odieresis";214);
1170   tsu_accent.apply(tsu_accent.capital(latin.upo))(tsu_accent.umlaut);
1171   tsu_render;
1172 endtsuglyph;
1173
1174 % times
1175 tsu_accent.clear_default_anchors;
1176 tsu_rescale_native_conditional;

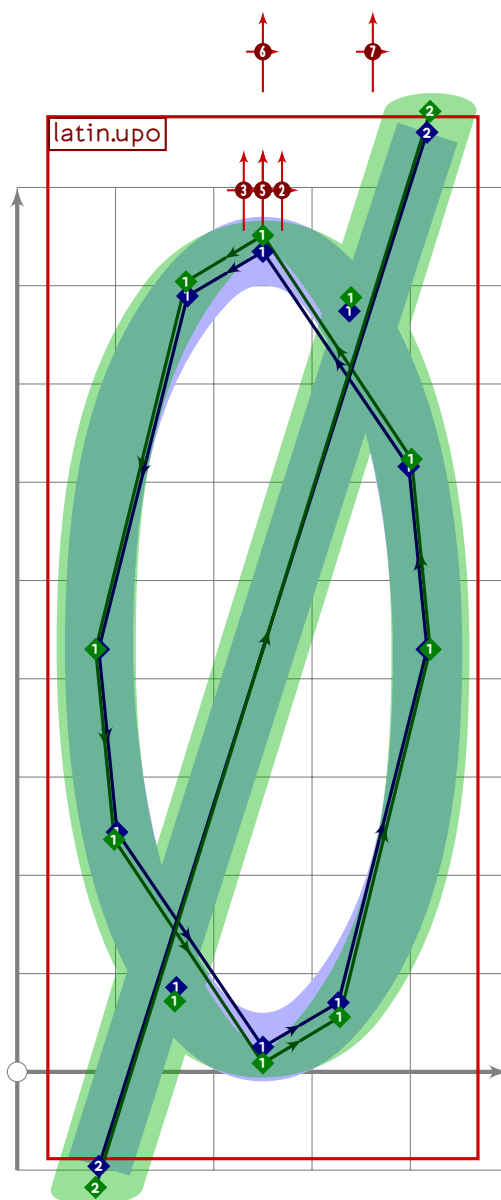
```

U+00D7
tsuku.multiply

00



```
1177 begintsuglyph("multiply";215);
1178   punct.times(ascii_punct_xf);
1179   tsu_render;
1180 endtsuglyph;
1181 tsu_rescale_half;
1182 tsu_accent.up_default_anchors;
1183
```



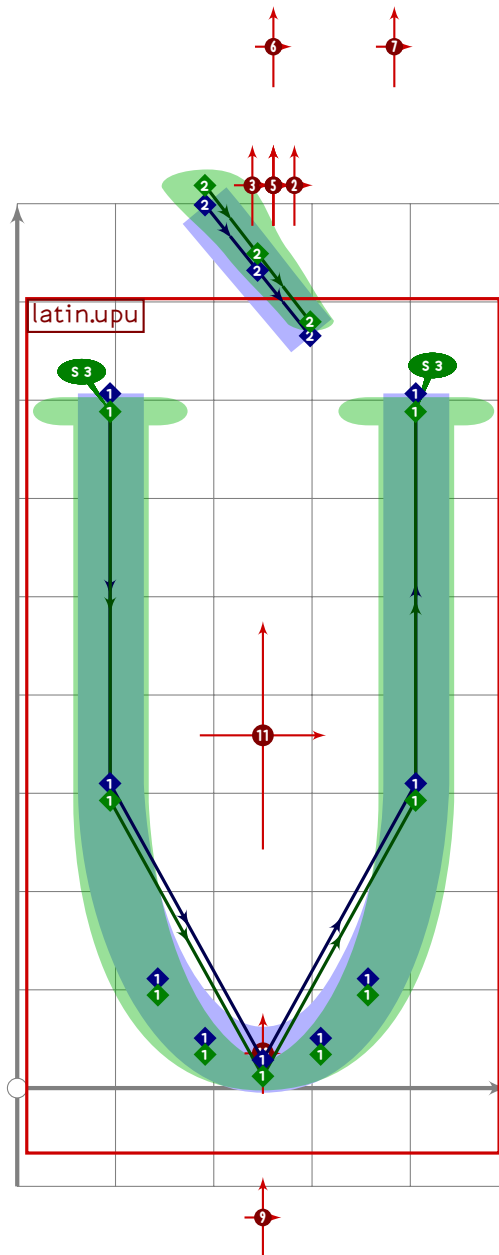
00

```

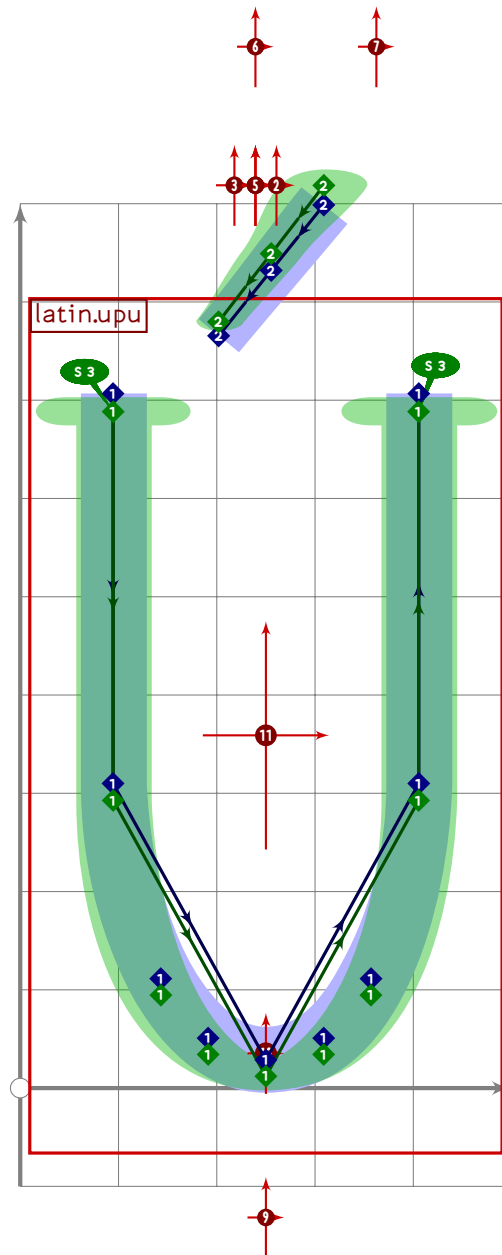
1184 % O with stroke
1185 begint Suglyph("Oslash";216);
1186   tsu_accent.apply(latin.upo)(tsu_accent.slash);
1187   replace_strokep(-1)(insert_nodes(oldp)(0.3,1.3,2.3,3.3));
1188   replace_strokeq(-1)(insert_nodes(oldq)(0.3,1.3,2.3,3.3));
1189   tsu_render;
1190 endtsuglyph;
1191

```


00



1200



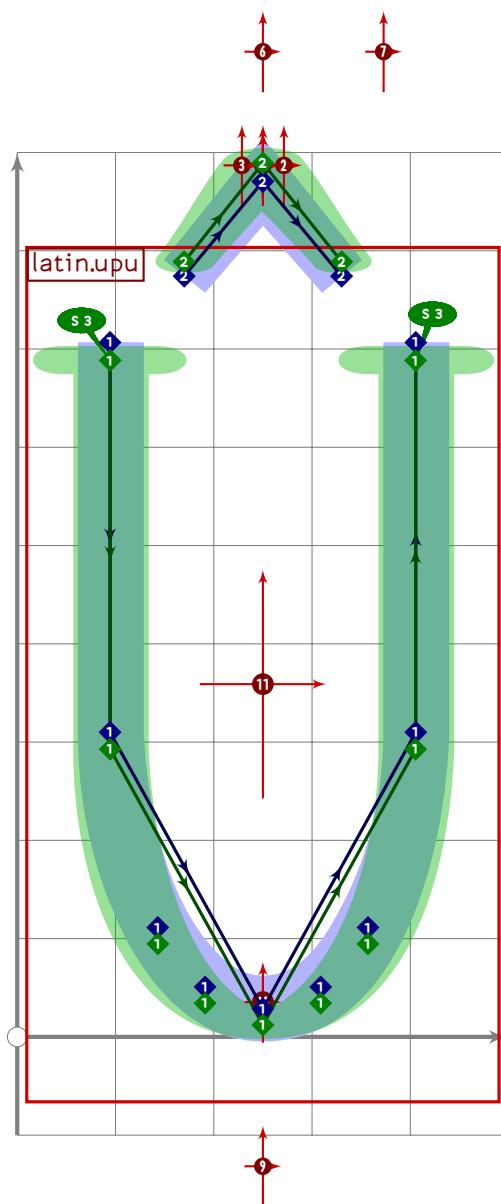
```

1198 % U with acute
1199 begint Suglyph("Uacute";218);
1200   tsu_accent.apply(tsu_accent.capital(latin.upu))(tsu_accent.acute);
1201   tsu_render;
1202 endtsuglyph;
1203

```

U+00DB
tsuku.Ucircumflex

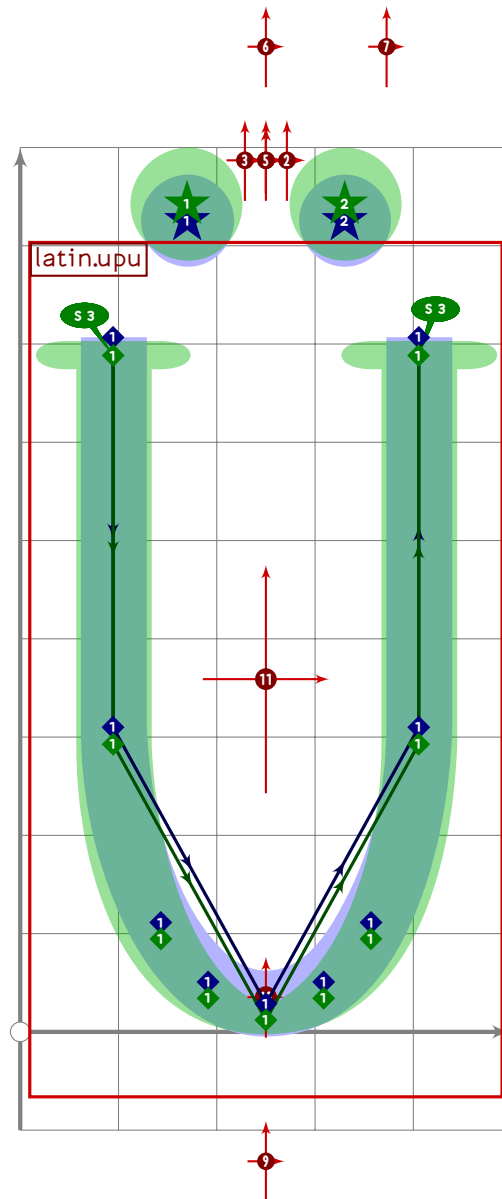
00



```

1204 % U with circumflex
1205 begintsuglyph("Ucircumflex";219);
1206   tsu_accent.apply(tsu_accent.capital(latin.upu))(tsu_accent.circumflex);
1207   tsu_render;
1208 endtsuglyph;
1209

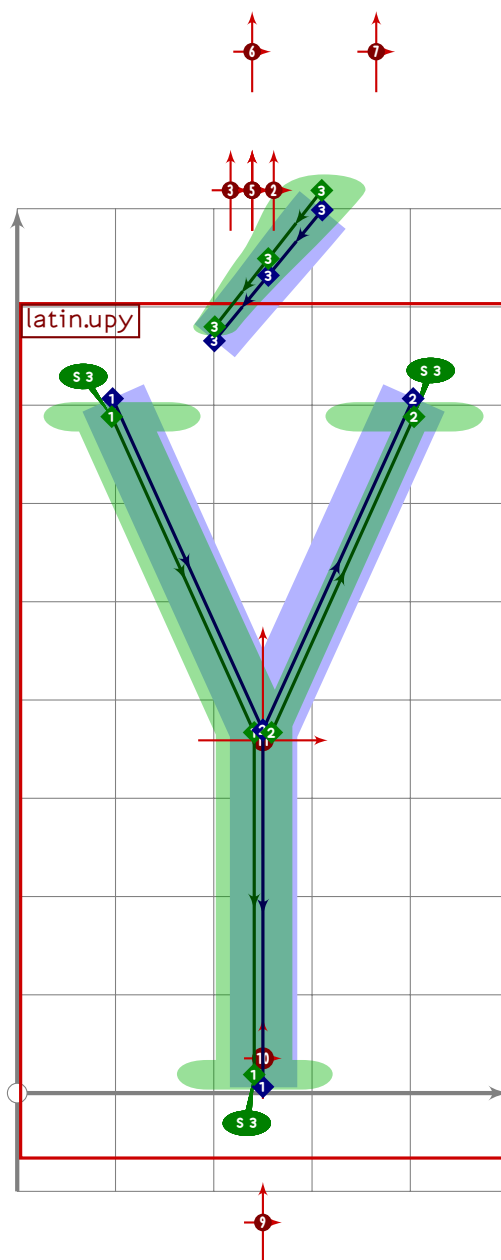
```



```

1210 % U with dieresis/umlaut
1211 begint Suglyph("Udieresis";220);
1212   tsu_accent.apply(tsu_accent.capital(latin.upu))(tsu_accent.umlaut);
1213   tsu_render;
1214 endtsuglyph;
1215

```



```

1216 % Y with acute
1217 begintsuglyph("Yacute";221);
1218   tsu_accent.apply(tsu_accent.capital(latin.upy))(tsu_accent.acute);
1219   tsu_render;
1220 endtsuglyph;
1221
1222 % uppercase Thorn
1223 begintsuglyph("Thorn";222);
1224   latin.upthorn;
1225   tsu_render;
1226 endtsuglyph;
1227
1228 tsu_accent.low_default_anchors;
1229

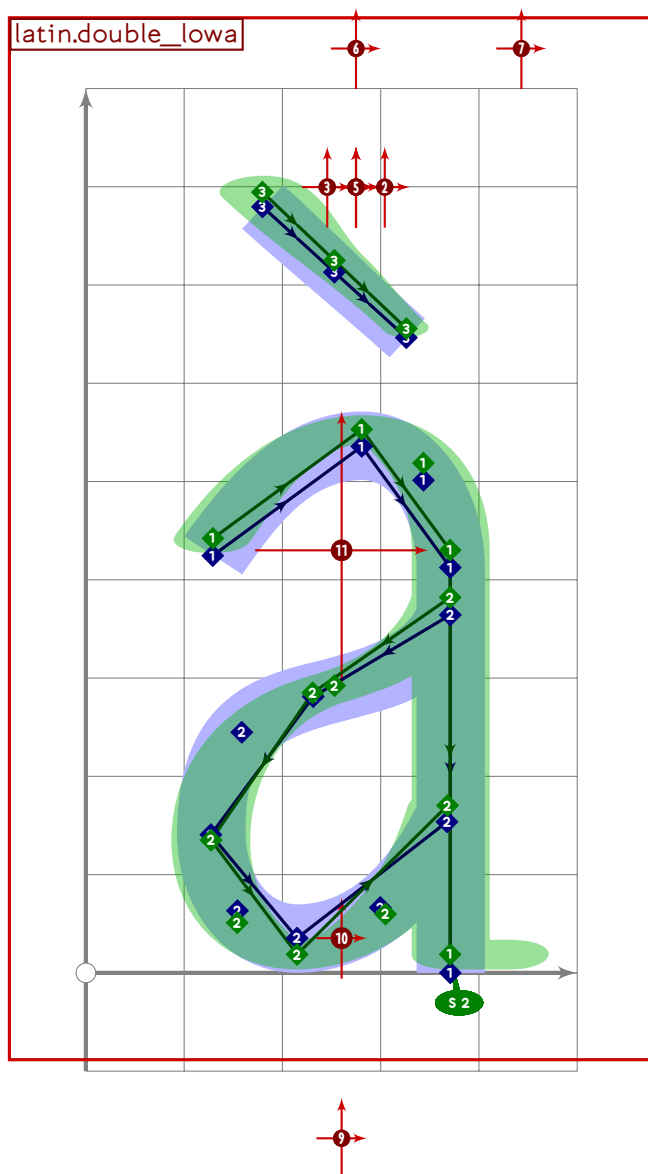
```

[see page 290]

[see page 308]

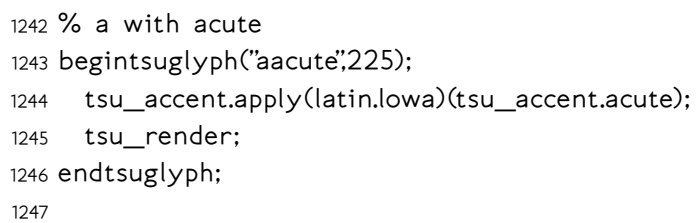
00

```
1230 % eszett
1231 begintsuglyph("germandbls",223);
1232 latin.loweszett;
1233 tsu_render;
1234 endtsuglyph;
1235
```

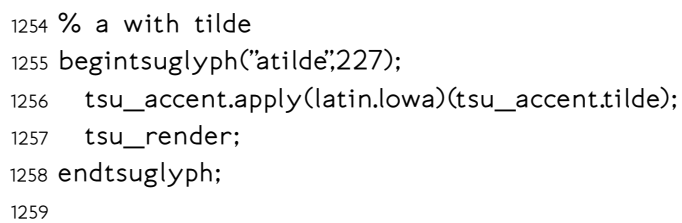


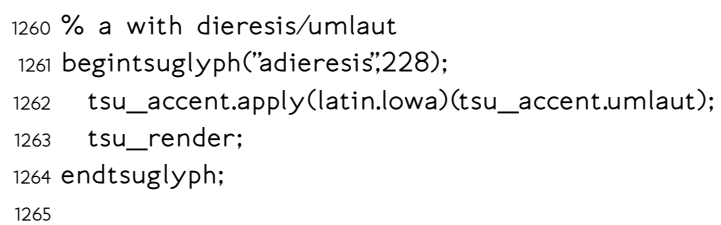
```
1236 % a with grave
1237 begintsuglyph("agrave",224);
1238 tsu_accent.apply(latin.low_a)(tsu_accent.grave);
1239 tsu_render;
1240 endtsuglyph;
1241
```

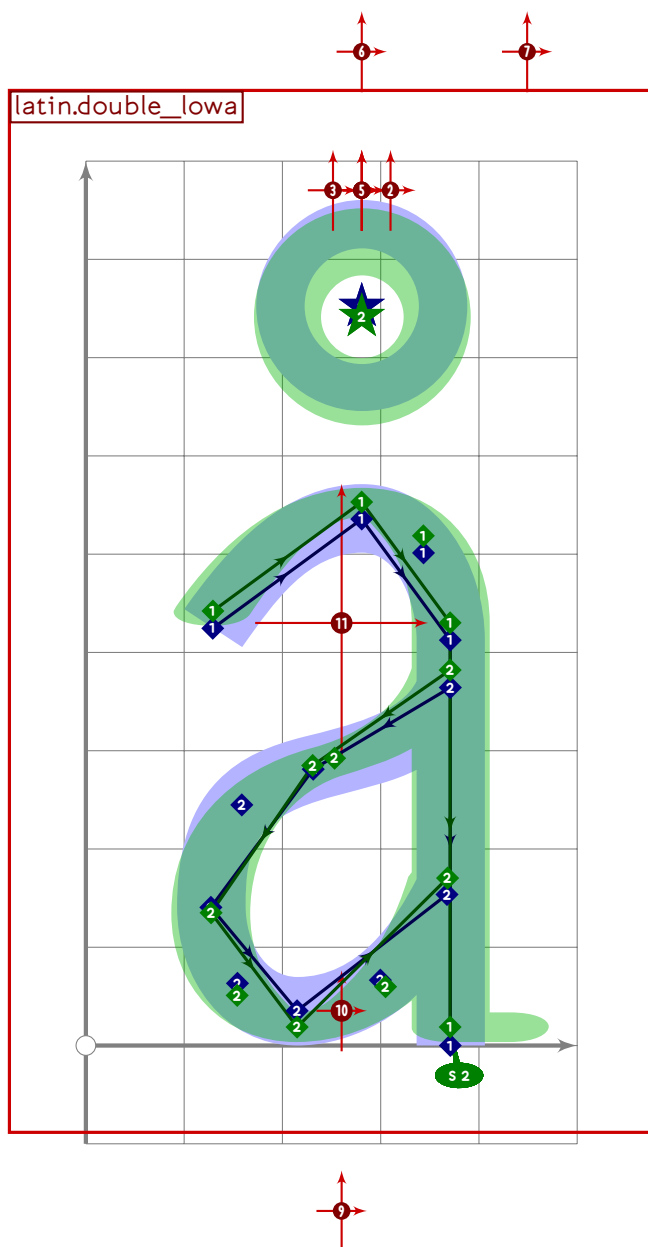
00



00





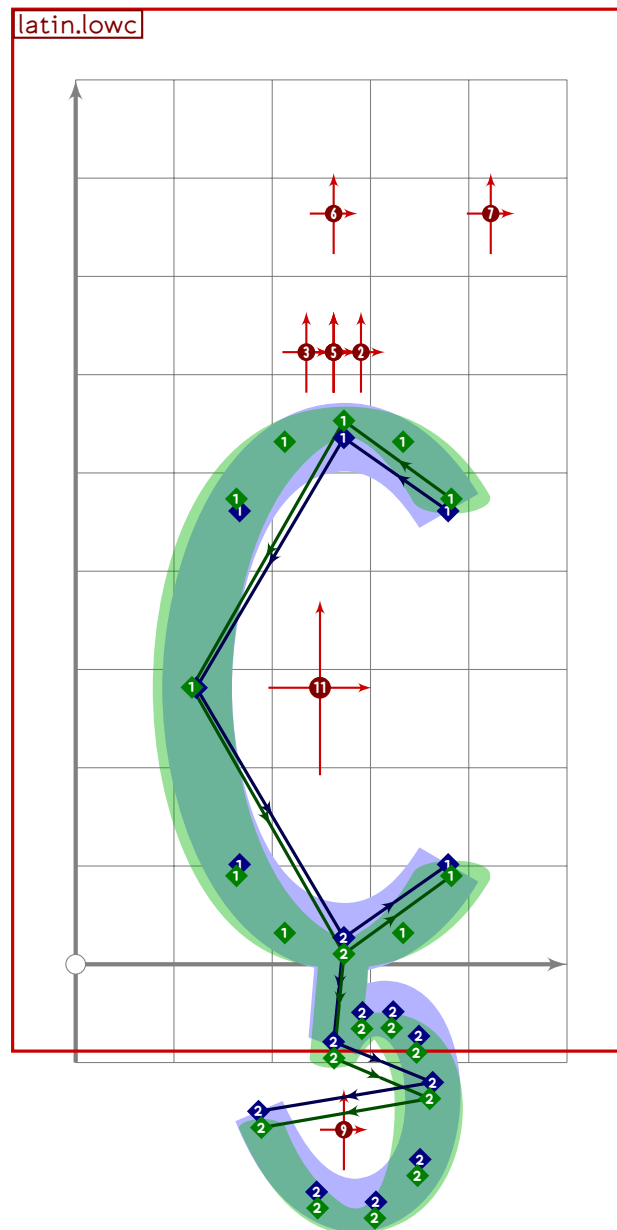


```

1266 % a with ring above
1267 begintsuglyph("aring";229);
1268   tsu_accent.apply(latin.low_a)(tsu_accent.ringabove);
1269   tsu_render;
1270 endtsuglyph;
1271
1272 % ae ligature
1273 begintsuglyph("ae";230);
1274   latin.low_ae;
1275   tsu_render;
1276 endtsuglyph;
1277

```

[see page 301]



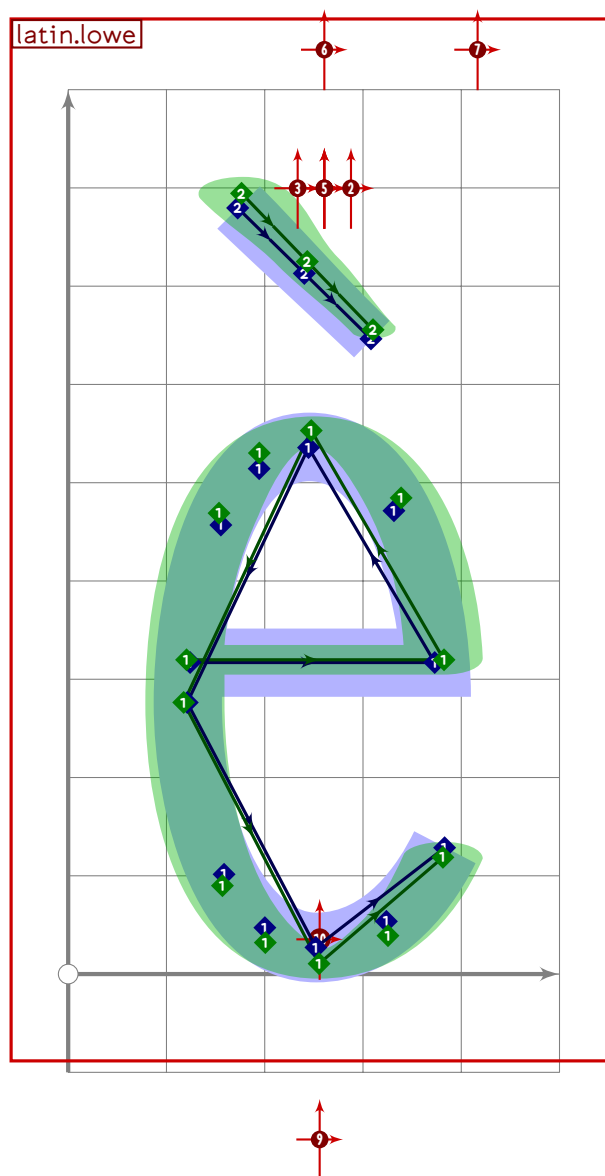
```

1278 % c with cedilla
1279 begintsuglyph("ccedilla";231);
1280 tsu_accent.apply(latin.lowc)(tsu_accent.cedilla);
1281 tsu_render;
1282 endtsuglyph;
1283

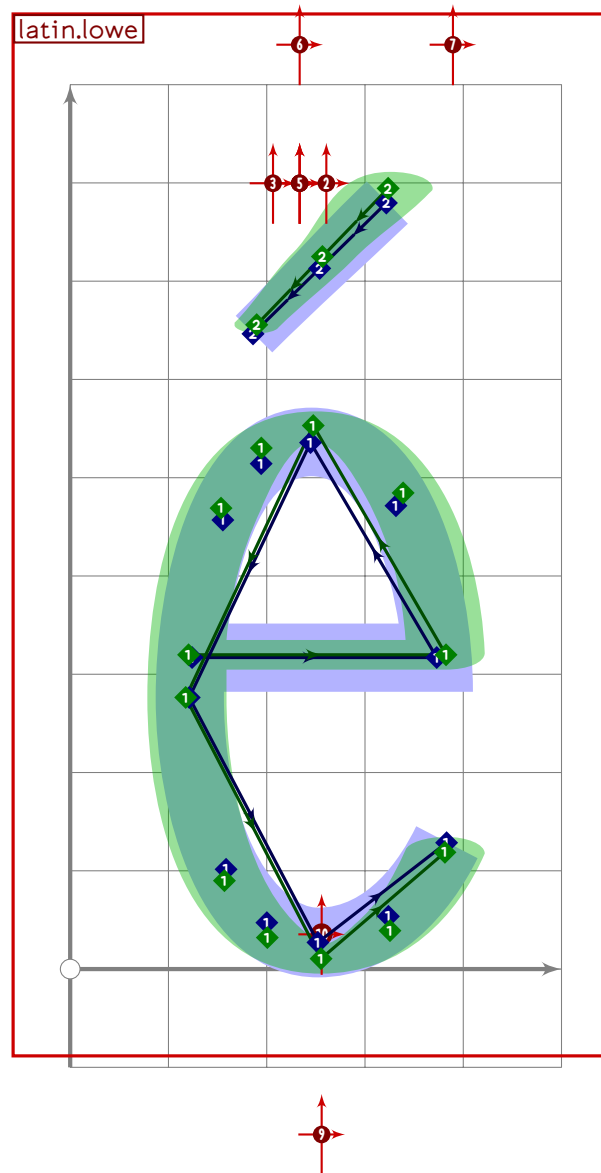
```

U+00E8
tsuku.egrave

00



```
1284 % e with grave
1285 begintsuglyph("egrave";232);
1286   tsu_accent.apply(latin.love)(tsu_accent.grave);
1287   tsu_render;
1288 endtsuglyph;
1289
```



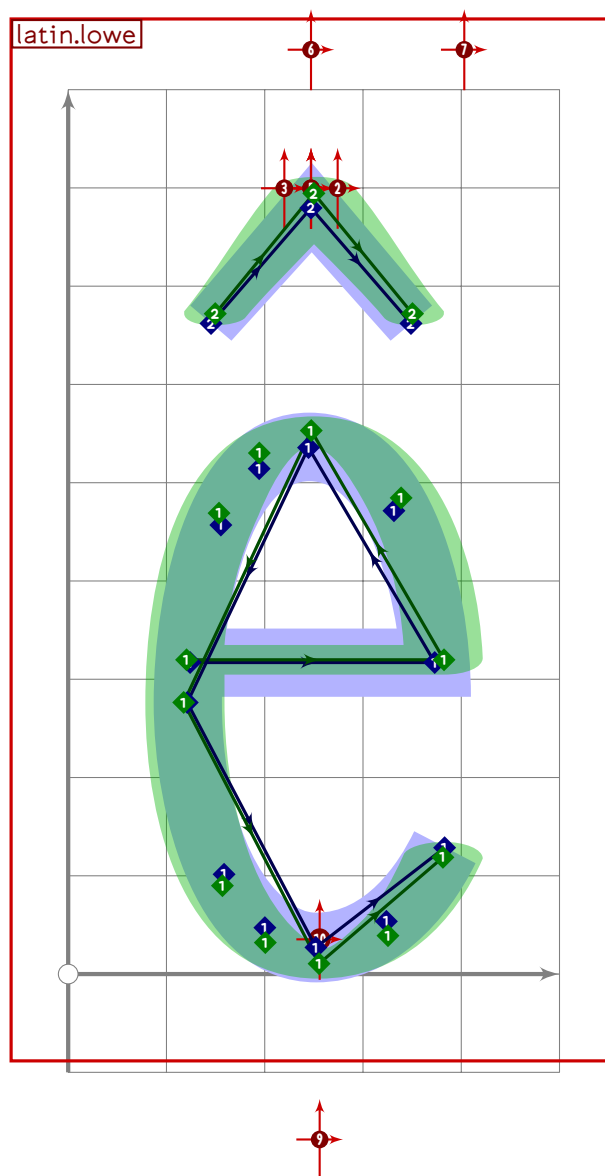
```

1290 % e with acute
1291 begint Suglyph("eacute";233);
1292   tsu_accent.apply(latin.love)(tsu_accent.acute);
1293   tsu_render;
1294 endtsuglyph;
1295

```

U+00EA
tsuku.ecircumflex

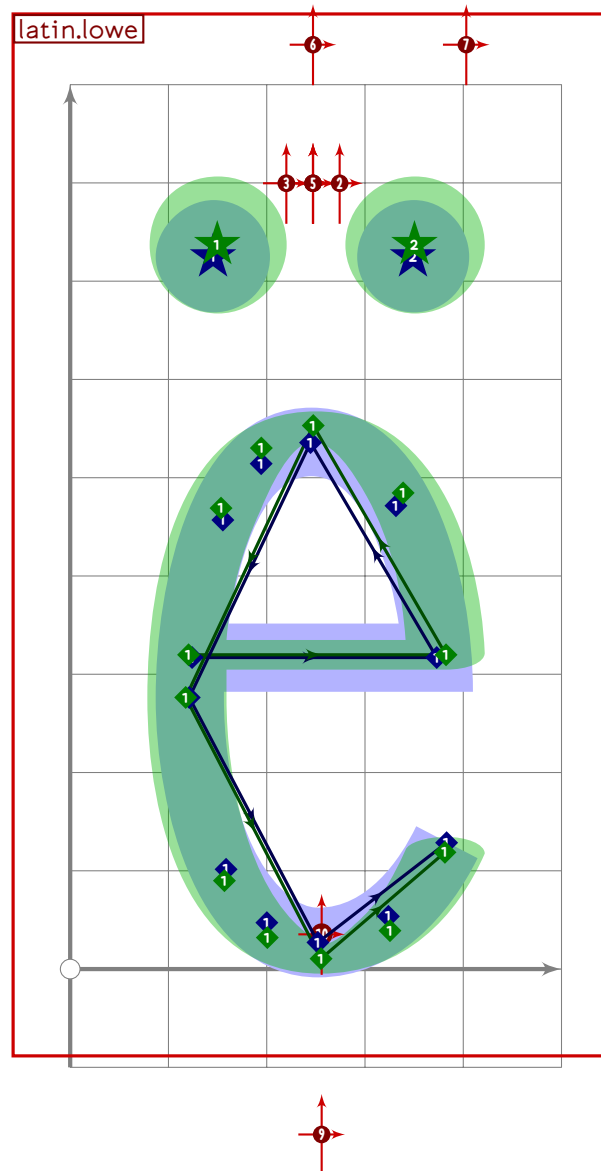
00



```

1296 % e with circumflex
1297 begintsuglyph("ecircumflex";234);
1298   tsu_accent.apply(latin.lowe)(tsu_accent.circumflex);
1299   tsu_render;
1300 endtsuglyph;
1301

```



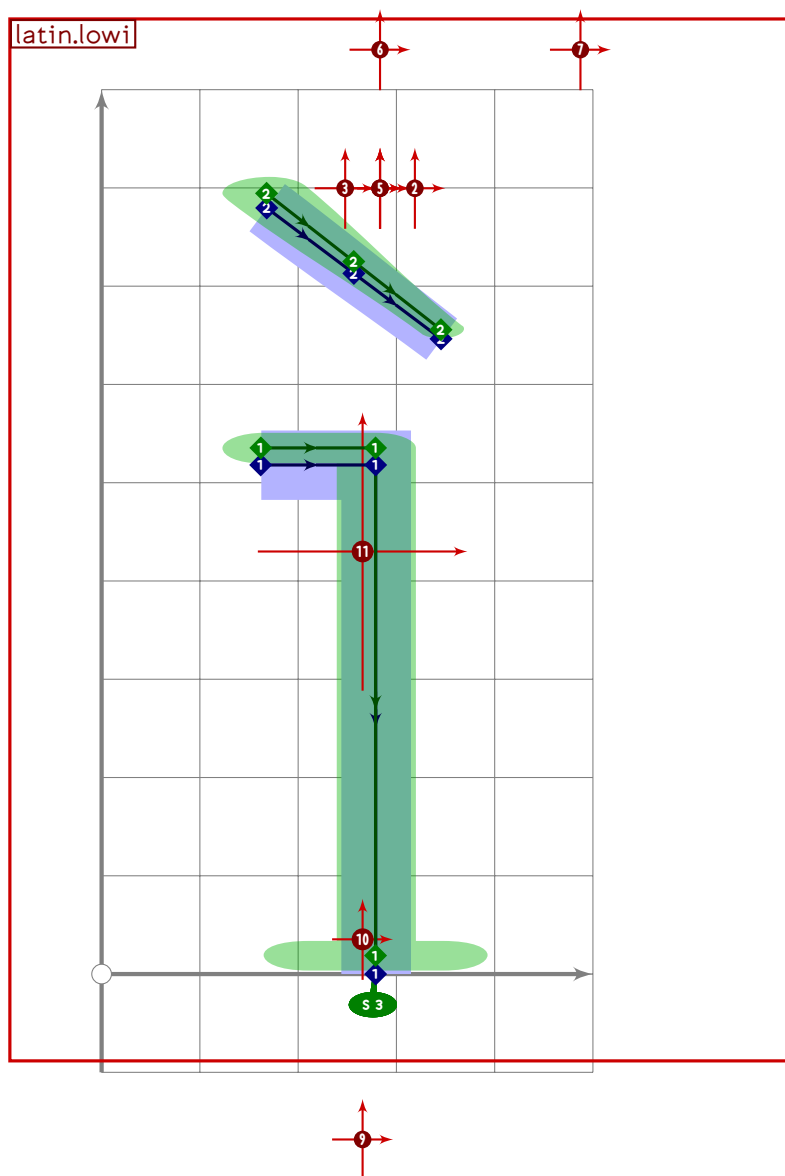
```

1302 % e with dieresis/umlaut
1303 begintsuglyph("edieresis";235);
1304   tsu_accent.apply(latin.lowe)(tsu_accent.umlaut);
1305   tsu_render;
1306 endtsuglyph;
1307

```


U+00EC
tsuku.igrave

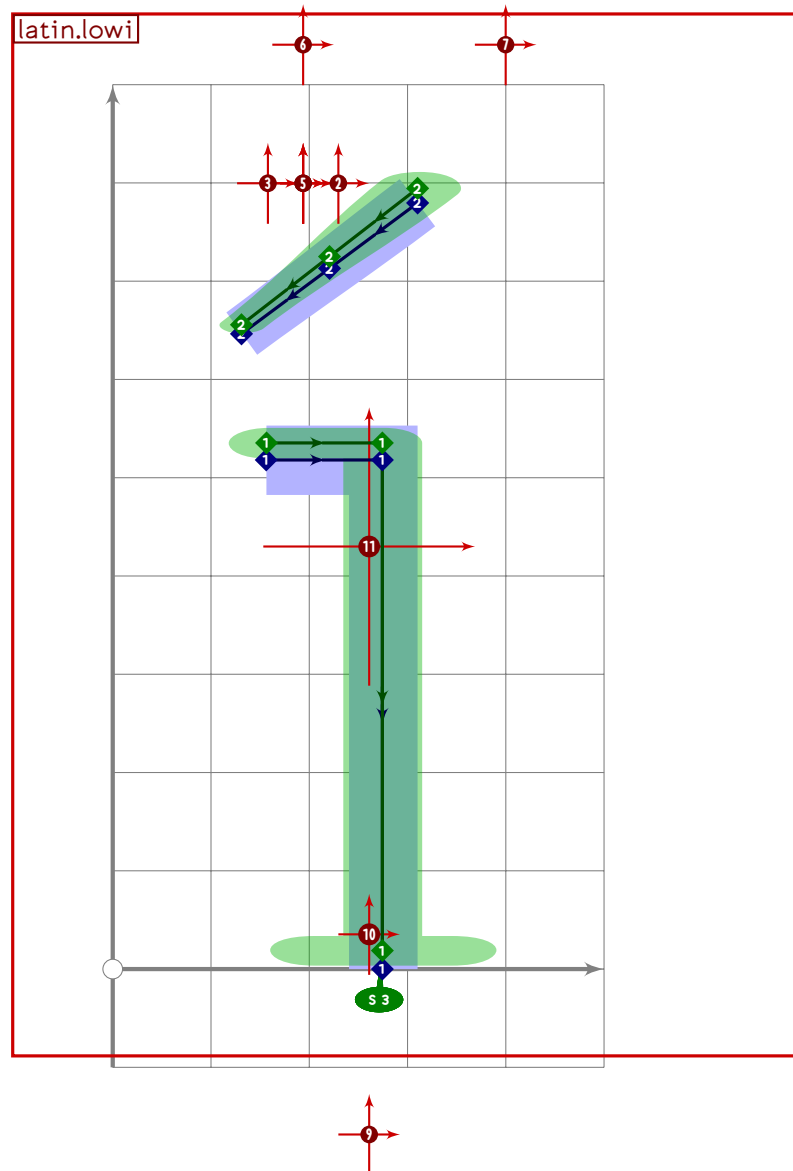
00



```

1308 % i with grave
1309 begintsuglyph("igrave";236);
1310   tsu_accent.apply(
1311     tsu_xform(identity shifted (70,0))(latin.lowi;
1312       tsu_accent.shift_anchors(true)((0,0)));
1313     pop_lcblob;
1314   )(tsu_accent.grave);
1315   tsu_render;
1316 endtsuglyph;
1317

```



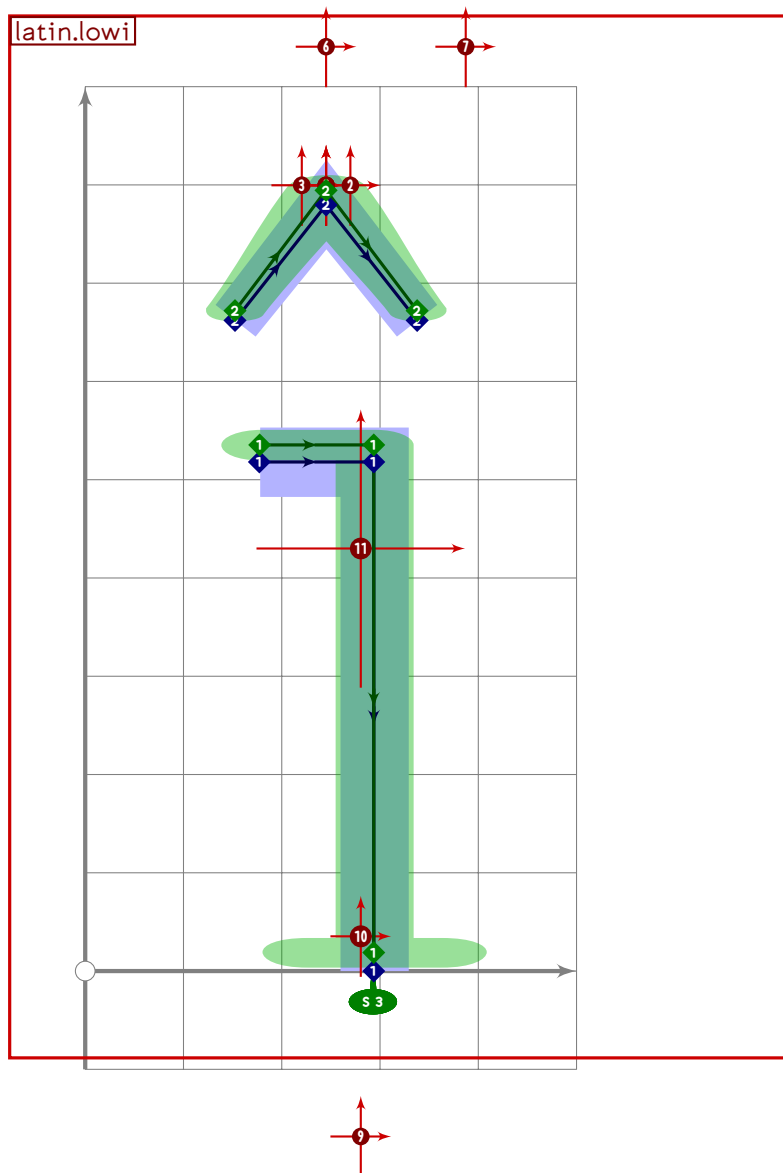
```

1318 % i with acute
1319 begintsuglyph("iacute";237);
1320   tsu_accent.apply(latin.lowi;pop_lcblob)(tsu_accent.acute);
1321   tsu_render;
1322 endtsuglyph;
1323

```

U+00EE
tsuku.icircumflex

00



```

1324 % i with circumflex
1325 beginsuglyph("icircumflex";238);
1326   tsu_accent.apply(
1327     tsu_xform(identity shifted (70,0))(latin. lowi;
1328       tsu_accent.shift_anchors(true)((0,0)));
1329   pop_lcblob;
1330   )(tsu_accent.circumflex);
1331   tsu_render;
1332 endsuglyph;
1333

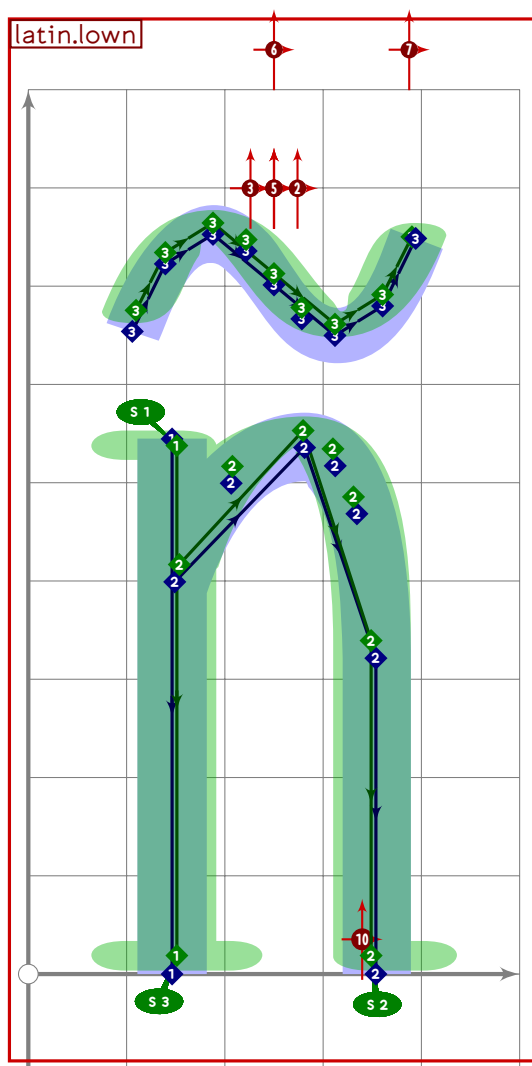
```



[see page 309]

U+00F1
tsuku.ntilde

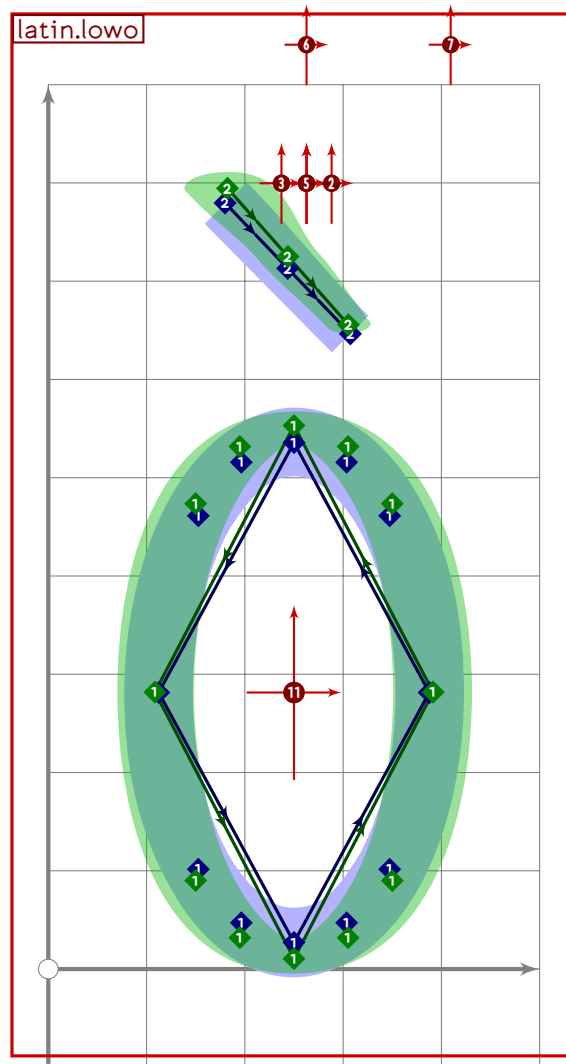
00



```

1350 % n with tilde
1351 beginsuglyph("ntilde",241);
1352 tsu_accent.apply(latin.lown)(tsu_accent.tilde);
1353 tsu_render;
1354 endsuglyph;
1355

```



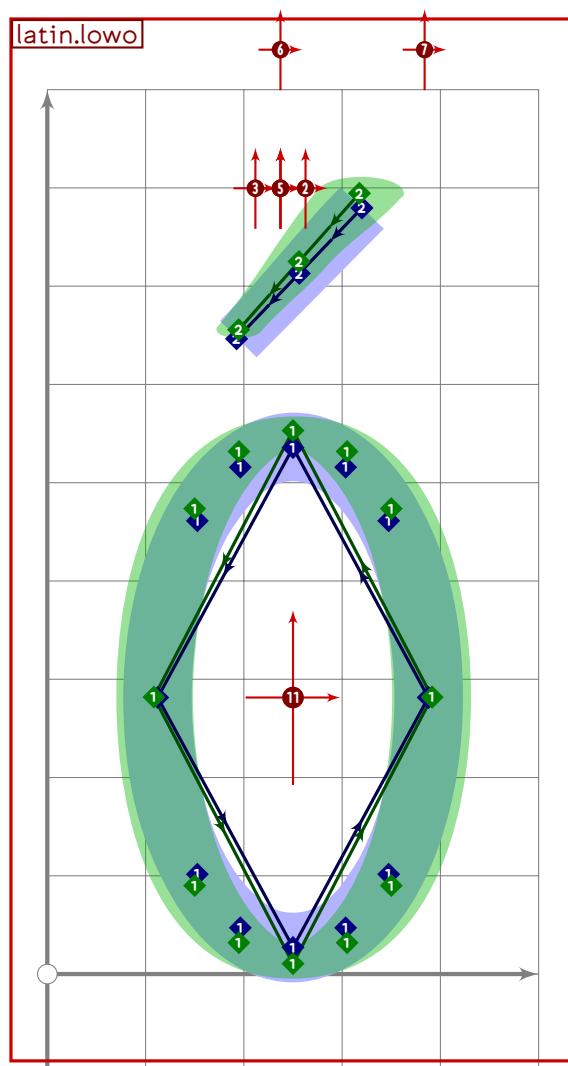
```

1356 % o with grave
1357 begint Suglyph("ograve";242);
1358   tsu_accent.apply(latin.low)(tsu_accent.grave);
1359   tsu_render;
1360 endtsuglyph;
1361

```

U+00F3
tsuku.oacute

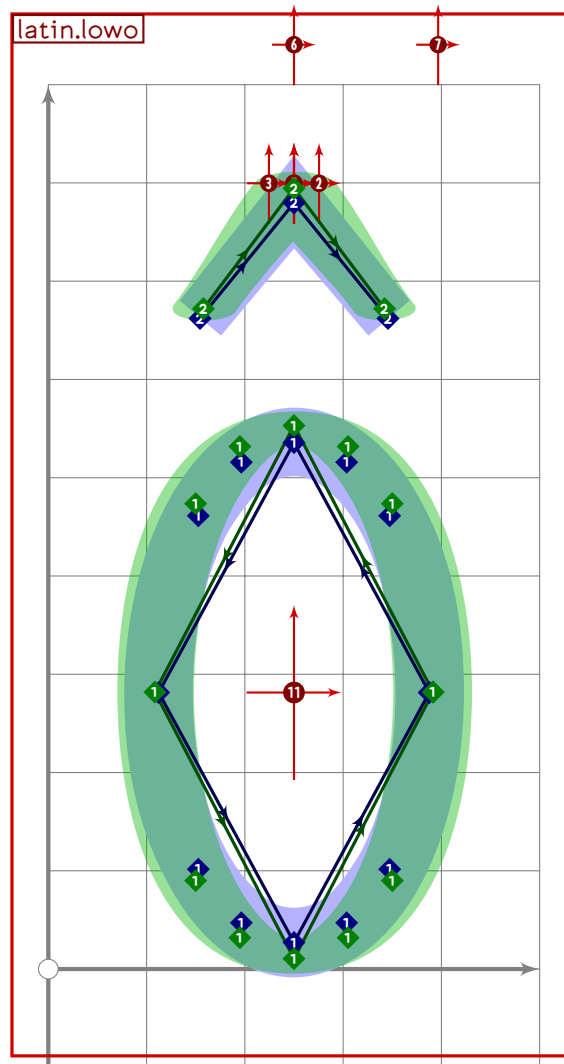
00



```

1362 % o with acute
1363 begint Suglyph("oacute";243);
1364   tsu_accent.apply(latin.low)(tsu_accent.acute);
1365   tsu_render;
1366 endtsuglyph;
1367

```



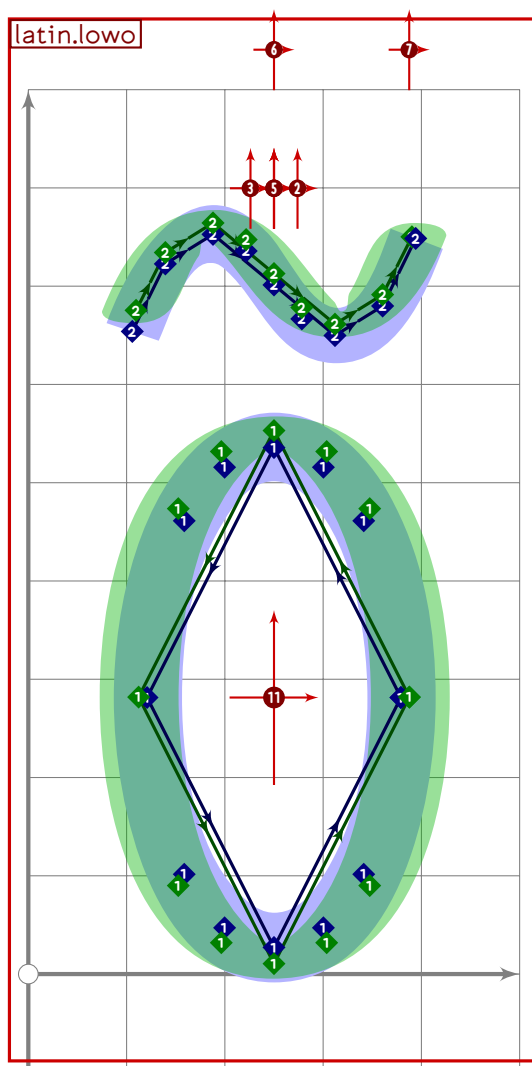
```

1368 % o with circumflex
1369 begint Suglyph("ocircumflex",244);
1370 tsu_accent.apply(latin.lowo)(tsu_accent.circumflex);
1371 tsu_render;
1372 endtsuglyph;
1373

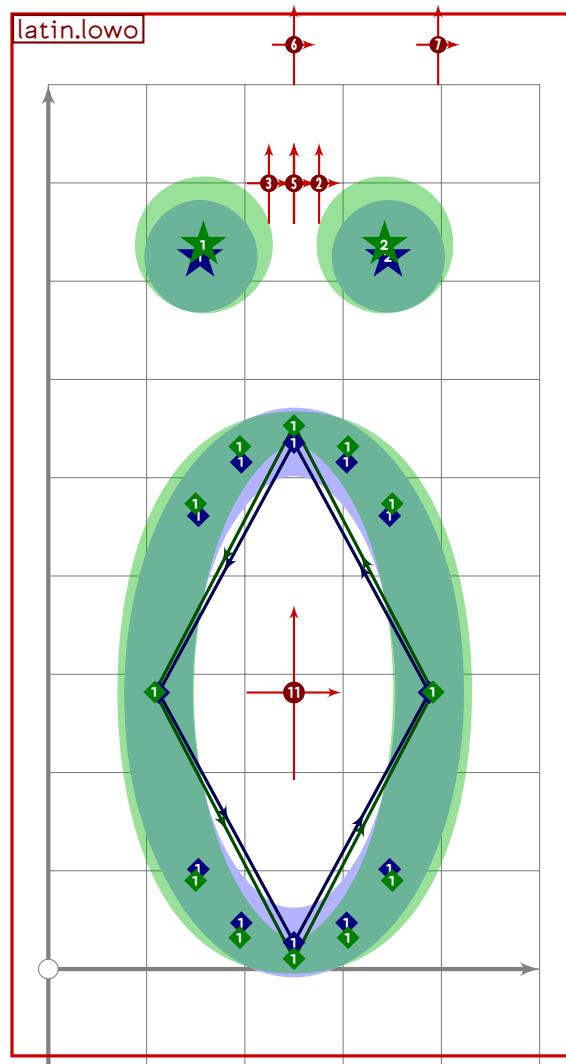
```


U+00F5
tsuku.otilde

00



```
1374 % o with tilde
1375 beginsuglyph("otilde",245);
1376 tsu_accent.apply(latin.lowo)(tsu_accent.tilde);
1377 tsu_render;
1378 endsuglyph;
1379
```



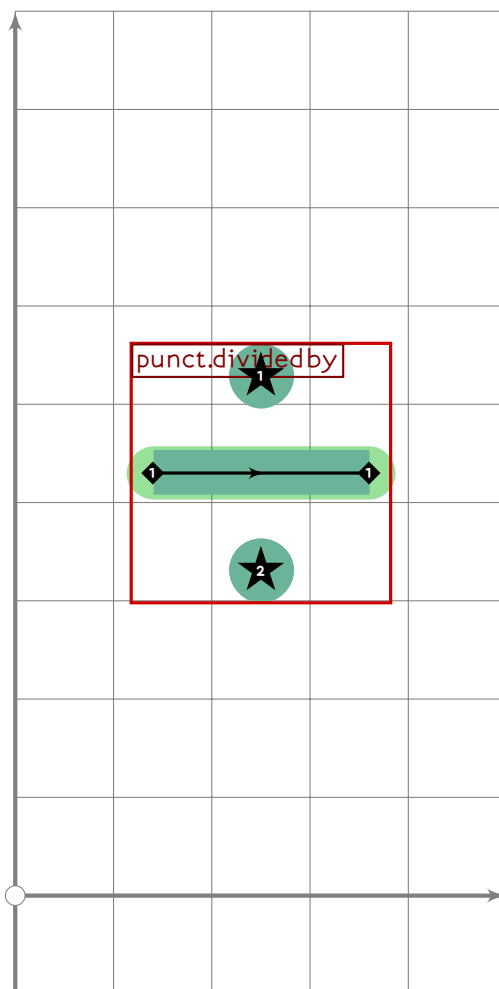
```

1380 % o with dieresis/umlaut
1381 begintsuglyph("odieresis";246);
1382   tsu_accent.apply(latin.lowo)(tsu_accent.umlaut);
1383   tsu_render;
1384 endsuglyph;
1385
1386 % division sign
1387 tsu_accent.clear_default_anchors;
1388 tsu_rescale_native_conditional;

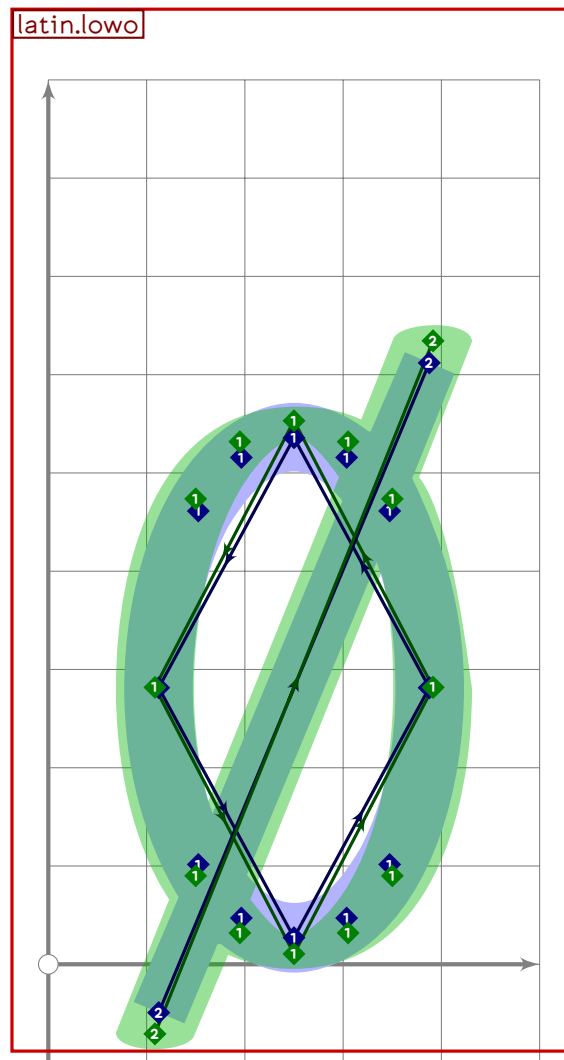
```

U+00F7
tsuku.divide

00



```
1389 begintsuglyph("divide";247);
1390   punct.dividedby(ascii_punct_xf);
1391   tsu_render;
1392 endtsuglyph;
1393 tsu_rescale_half;
1394 tsu_accent.low_default_anchors;
1395
```



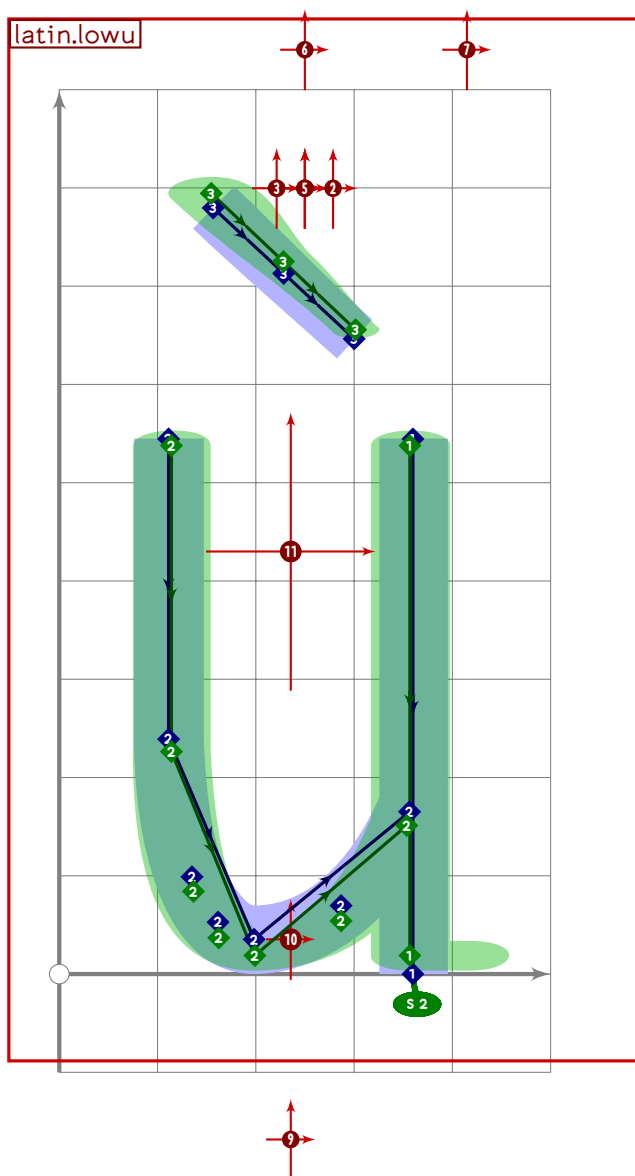
```

1396 % o with stroke
1397 begintsuglyph("oslash";248);
1398   tsu_accent.apply(latin.lowo)(tsu_accent.slash);
1399   tsu_render;
1400 endtsuglyph;
1401

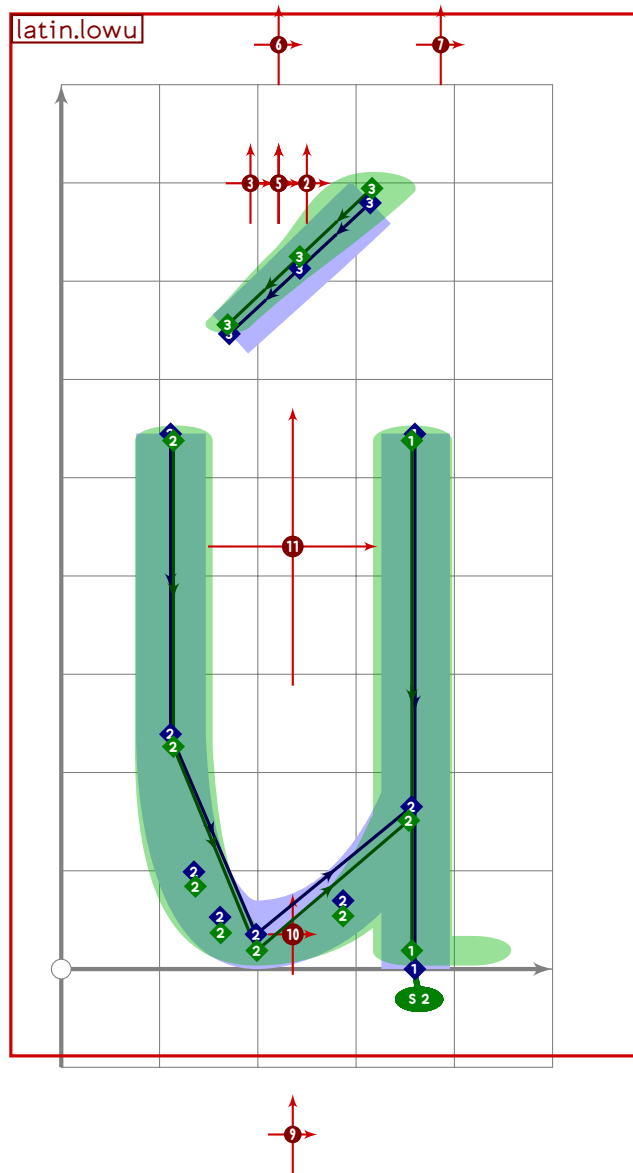
```

U+00F9
tsuku.ugrave

00



```
1402 % u with grave
1403 begint Suglyph("ugrave";249);
1404   tsu_accent.apply(latin.lowu)(tsu_accent.grave);
1405   tsu_render;
1406 endtsuglyph;
1407
```



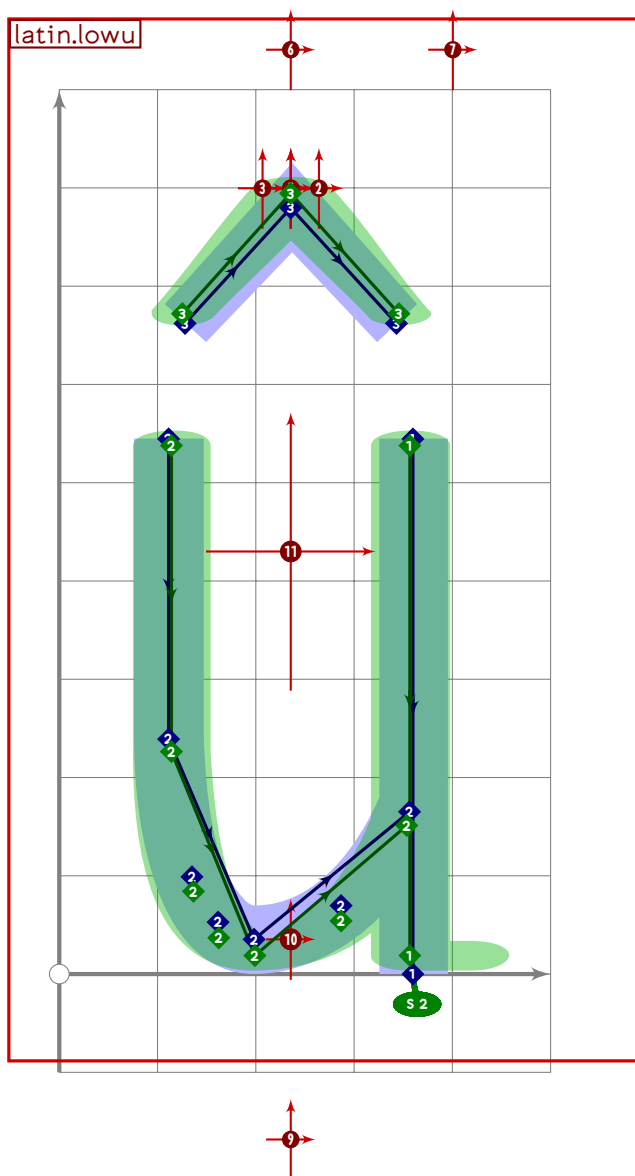
```

1408 % u with acute
1409 begintsuglyph("uacute";250);
1410   tsu_accent.apply(latin.lowu)(tsu_accent.acute);
1411   tsu_render;
1412 endtsuglyph;
1413

```

U+00FB
tsuku.ucircumflex

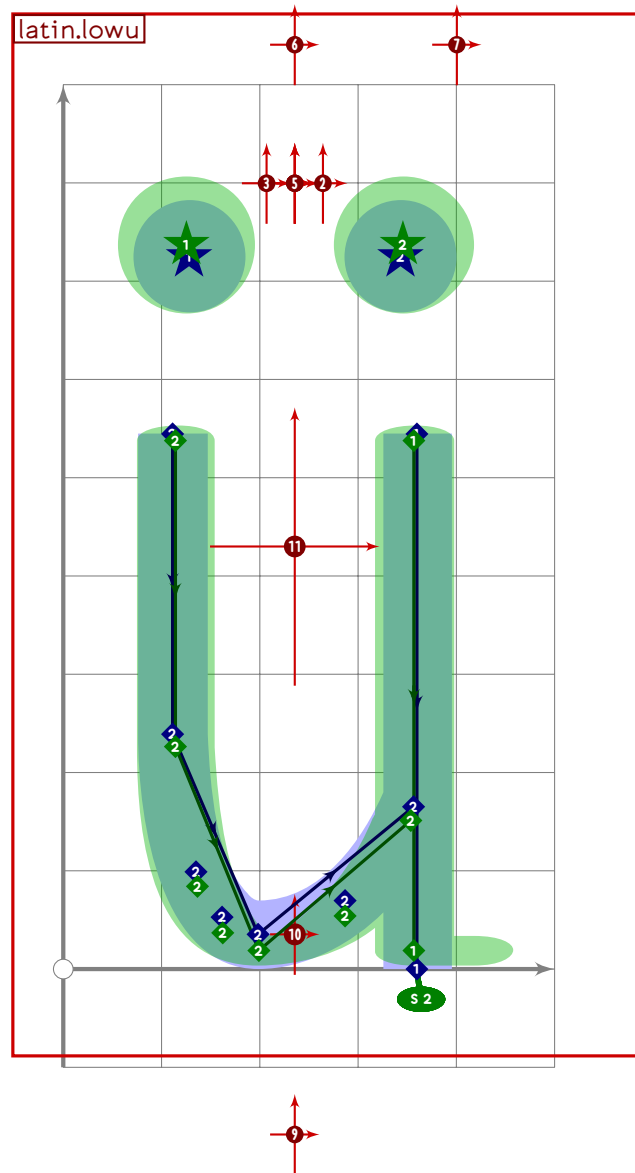
00



```

1414 % u with circumflex
1415 begint Suglyph('ucircumflex';251);
1416   tsu_accent.apply(latin.lowu)(tsu_accent.circumflex);
1417   tsu_render;
1418 endtsuglyph;
1419

```



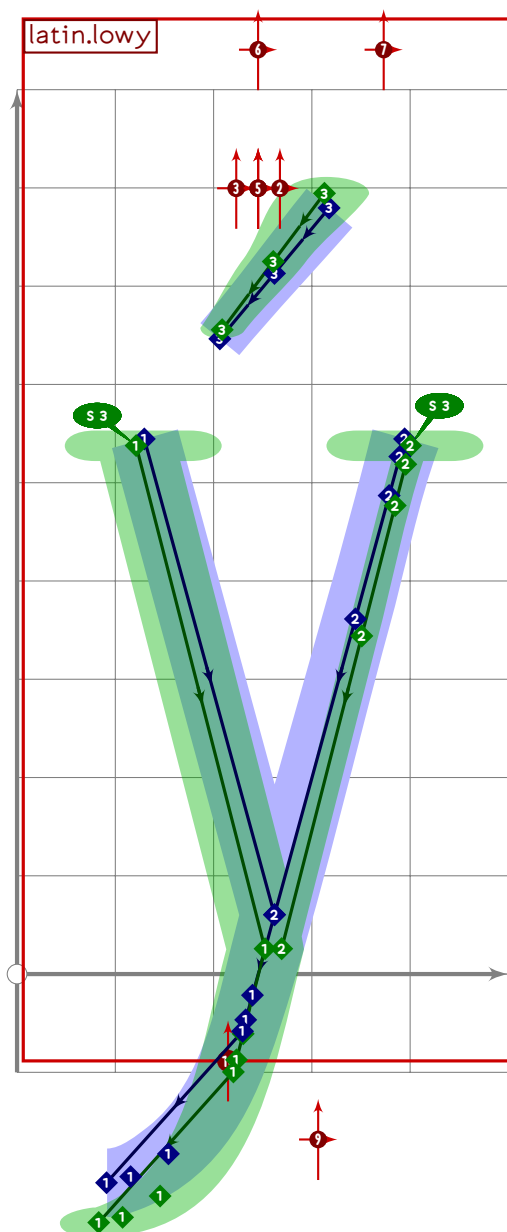
```

1420 % u with dieresis/umlaut
1421 begintsuglyph("udieresis";252);
1422   tsu_accent.apply(latin.lowu)(tsu_accent.umlaut);
1423   tsu_render;
1424 endtsuglyph;
1425

```


U+00FD
tsuku.yacute

00

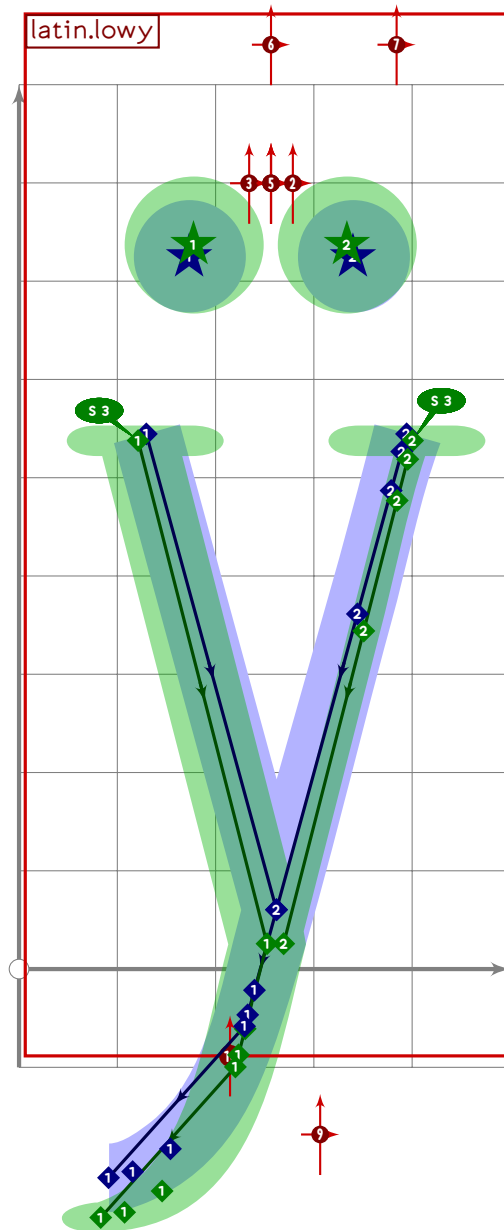


```

1426 % y with acute
1427 begintsuglyph("yacute";253);
1428   tsu_accent.apply(latin.lowy)(tsu_accent.acute);
1429   tsu_render;
1430 endtsuglyph;
1431
1432 % thorn
1433 begintsuglyph("thorn";254);
1434   latin.lowthorn;
1435   tsu_render;
1436 endtsuglyph;
1437

```

[see page 337]



```

1438 % y with dieresis/umlaut
1439 begintsuglyph("ydieresis";255);
1440 tsu_accent.apply(latin.lowy)(tsu_accent.umlaut);
1441 tsu_render;
1442 endtsuglyph;
1443
1444
1445
1446 endfont;
1447
1448

```

tsuku-01.mp

01

```
1 %
2 % Unicode page 01 (Latin Extended A) for Tsukurimashou
3 % Copyright (C) 2011, 2012 Matthew Skala
4 %
5-29 [Standard copyright notice]
30
31 

---

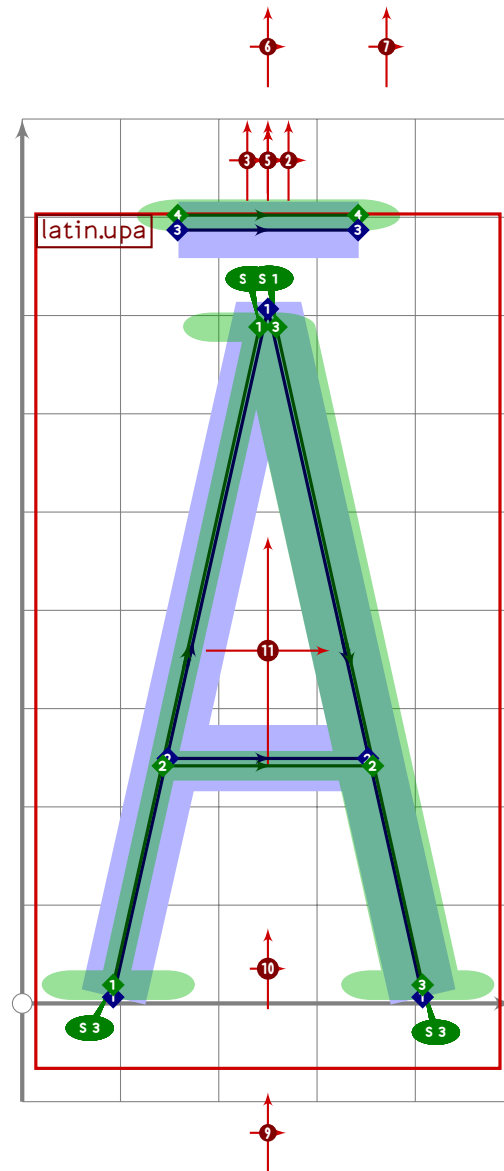

32
33 beginfont
34
35 input latin-intro.mp;
36
37 % AUTODEPS
38 input accent.mp;
39 input latin.mp;
40 input ogonek.mp;
41 input punct.mp;
42
43 do_late_includes;
44
45 

---


46
```

Latin Extended A Uppercase

```
47 % LATIN EXTENDED A UPPERCASE
48
49 % note we define these out of code point sequence in order to simplify
50 % default accent anchor definitions
51
52 tsu_rescale_half;
53 sp:=0;
54 tsu_accent.up_default_anchors;
55
```

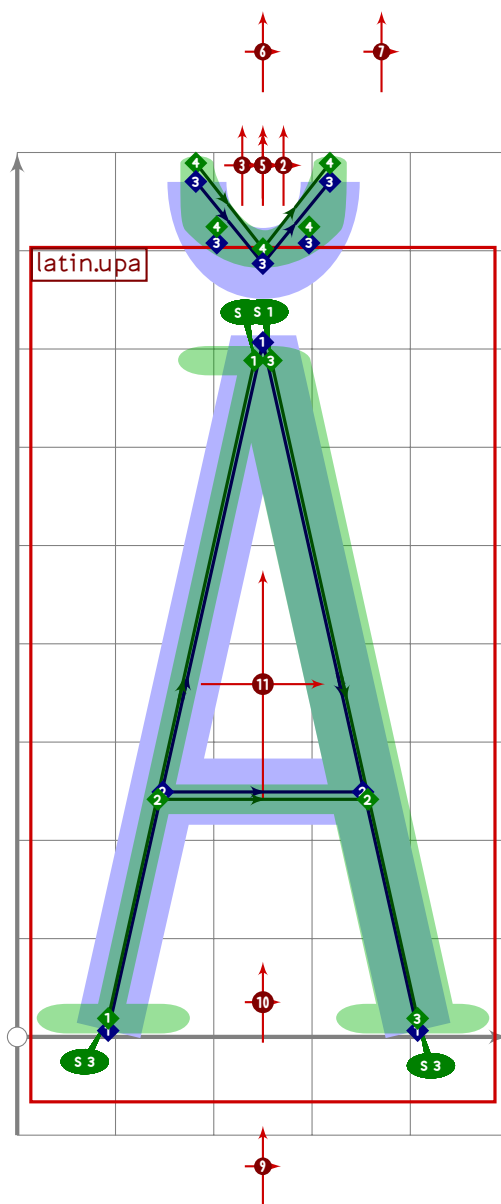


01

```

56 % A with macron
57 begintsuglyph("Amacron";0);
58   tsu_accent.apply(tsu_accent.capital(latin.upa))(tsu_accent.macron);
59   tsu_render;
60 endtsuglyph;
61

```

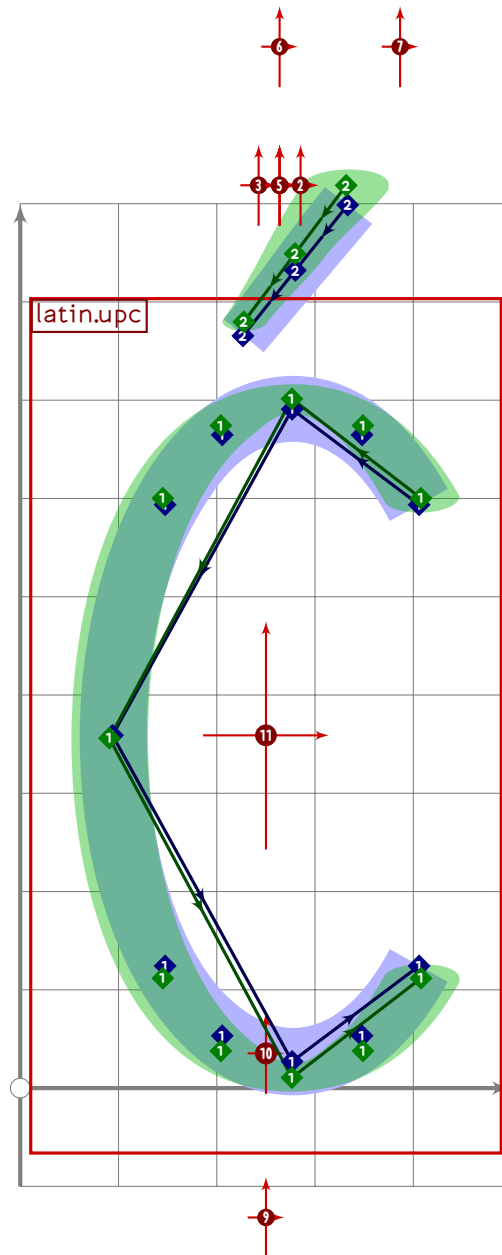


```

62 % A with breve
63 begintsuglyph("Abreve",2);
64 tsu_accent.apply(tsu_accent.capital(latin.upa))(tsu_accent.breve);
65 tsu_render;
66 endtsuglyph;
67
68 % A with ogonek
69 begintsuglyph("Aogonek",4);
70 latin.upaogonek;
71 tsu_render;
72 endtsuglyph;
73

```

[see page 358]



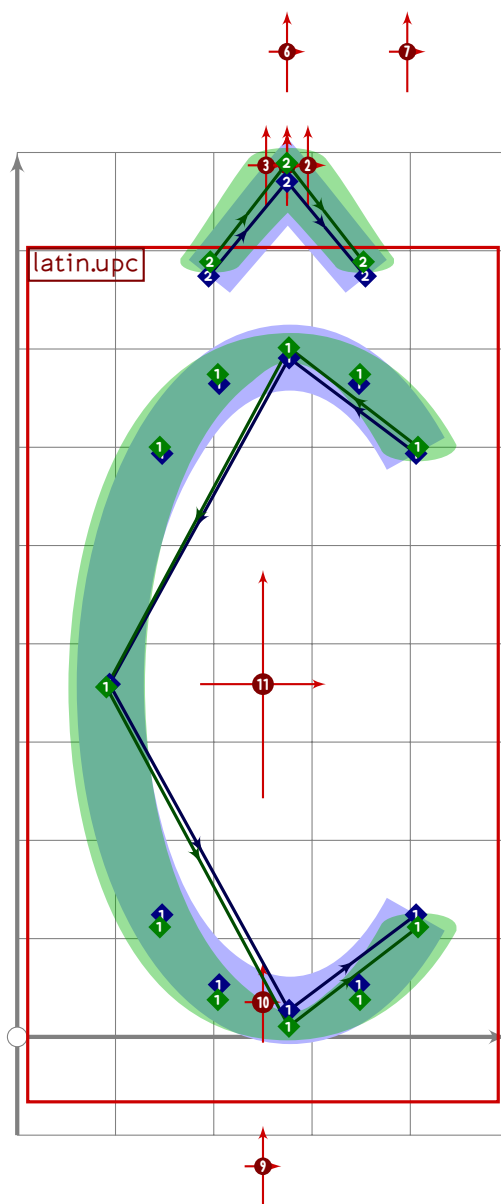
01

```

74 % C with acute
75 begint Suglyph("Cacute",6);
76   tsu_accent.apply(tsu_accent.capital(latin.upc))(tsu_accent.acute);
77   tsu_render;
78 endtsuglyph;
79

```

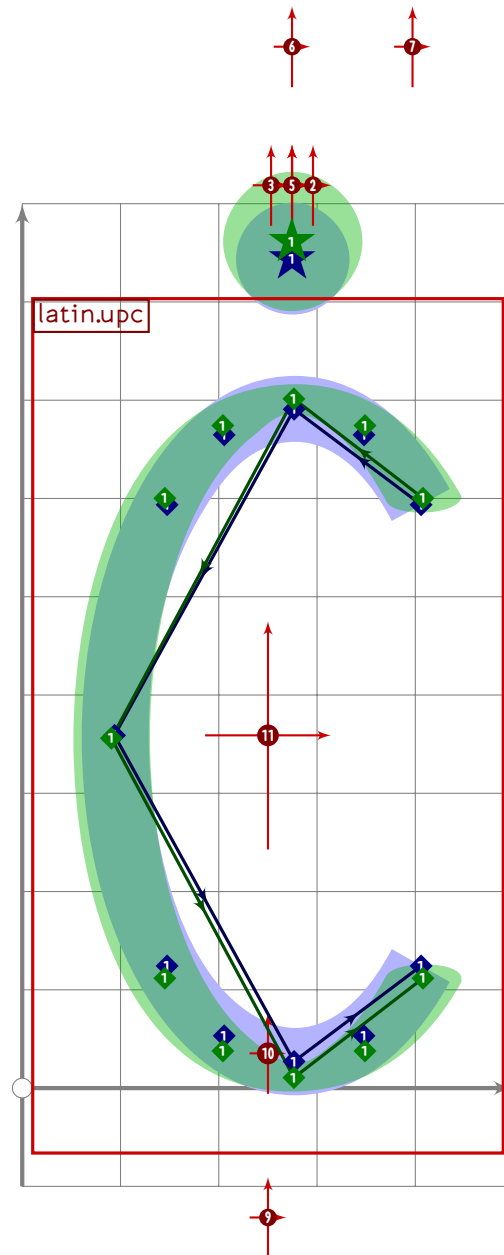
01



```

80 % C with circumflex
81 begintsuglyph("Ccircumflex";8);
82   tsu_accent.apply(tsu_accent.capital(latin.upc))(tsu_accent.circumflex);
83   tsu_render;
84 endtsuglyph;
85

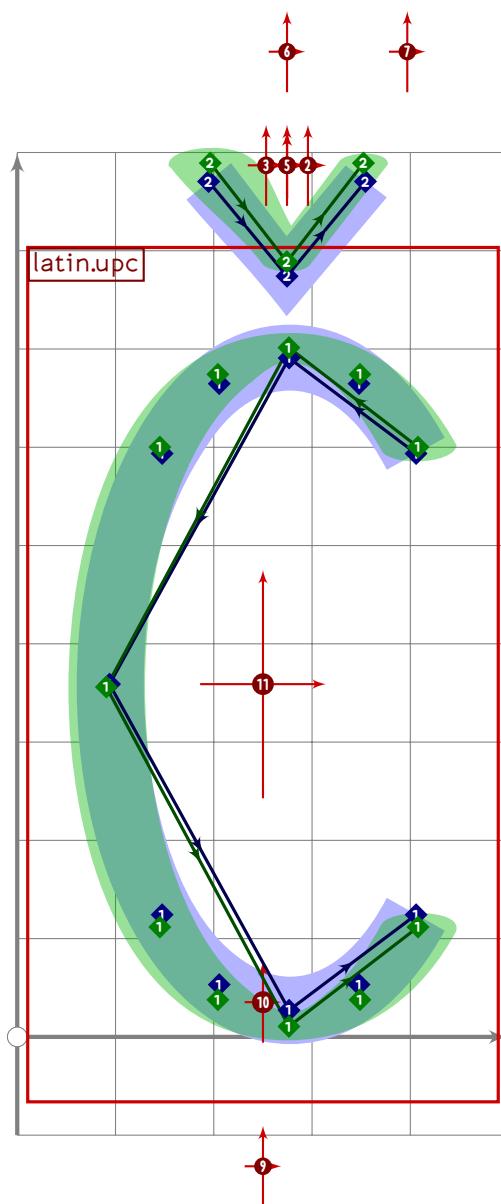
```



```

86 % C with dot above
87 begintsuglyph("Cdotaccent",10);
88   tsu_accent.apply(tsu_accent.capital(latin.upc))(tsu_accent.dotabove);
89   tsu_render;
90 endtsuglyph;
91

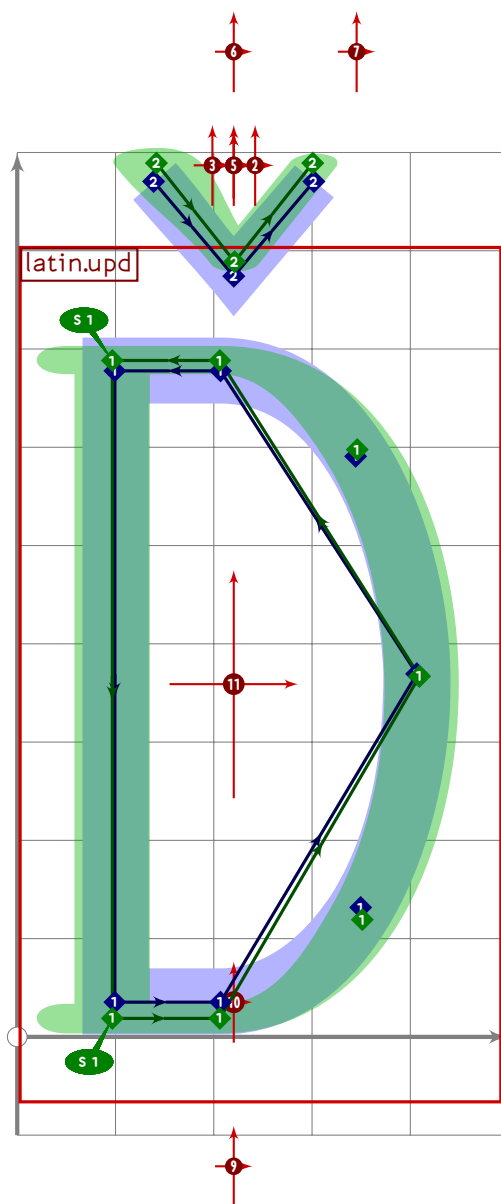
```

```

92 % C with caron
93 begintsuglyph("Ccaron",12);
94   tsu_accent.apply(tsu_accent.capital(latin.upc))(tsu_accent.caron);
95   tsu_render;
96 endtsuglyph;
97

```



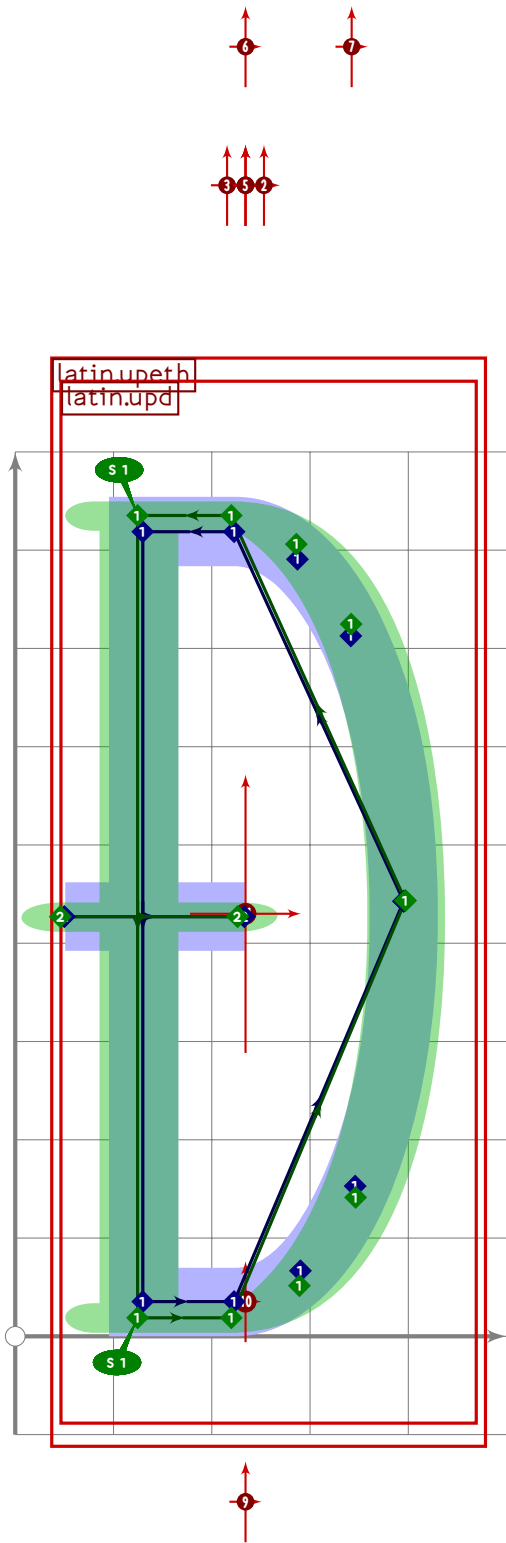
01

```

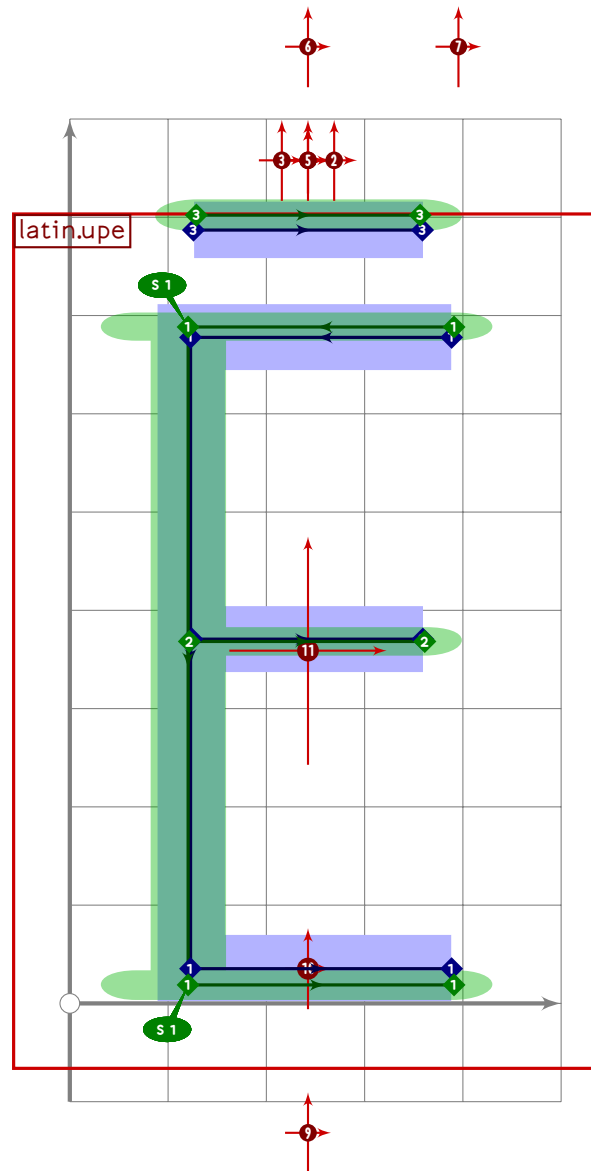
98 % D with caron
99 begintsuglyph("Dcaron",14);
100   tsu_accent.apply(tsu_accent.capital(latin.upd))(tsu_accent.caron);
101   tsu_render;
102 endtsuglyph;
103

```

01



```
104 % D with stroke - same as capital Eth
105 beginsuglyph("Dcroat",16);
106 latin.upeth;
107 tsu_render;
108 endtsuglyph;
109
```



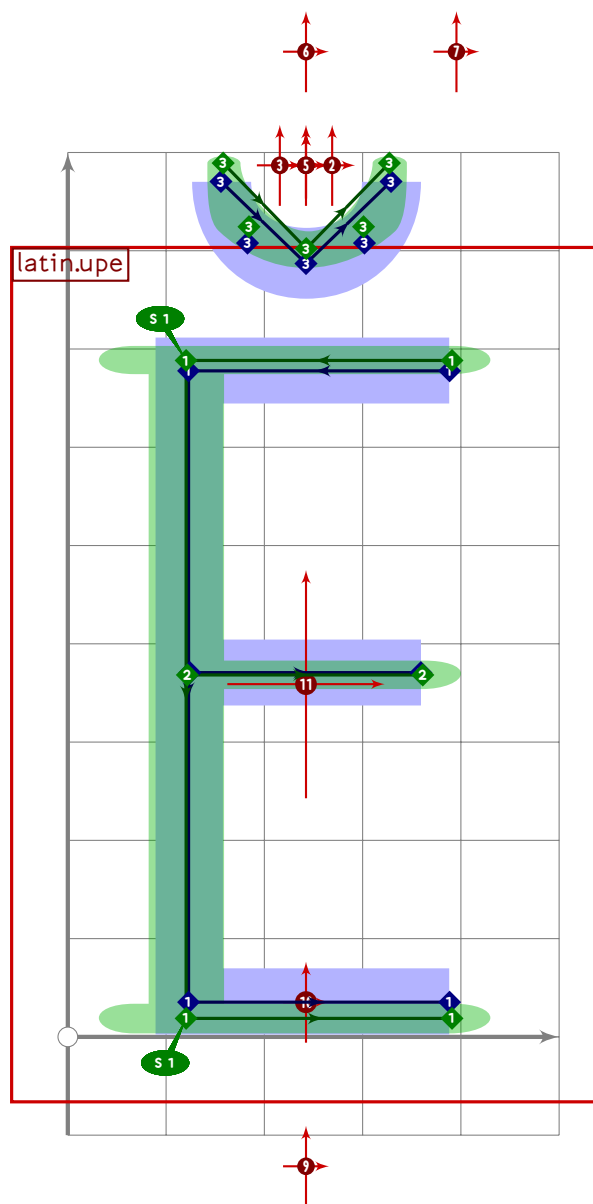
01

```

110 % E with macron
111 begintsuglyph("Emacron",18);
112 tsu_accent.apply(tsu_accent.capital(latin.upe))(tsu_accent.macron);
113 tsu_render;
114 endtsuglyph;
115

```

01



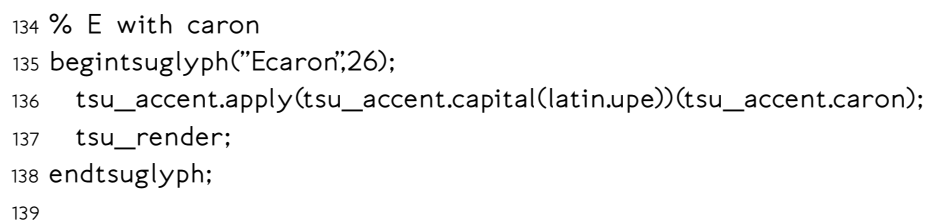
```

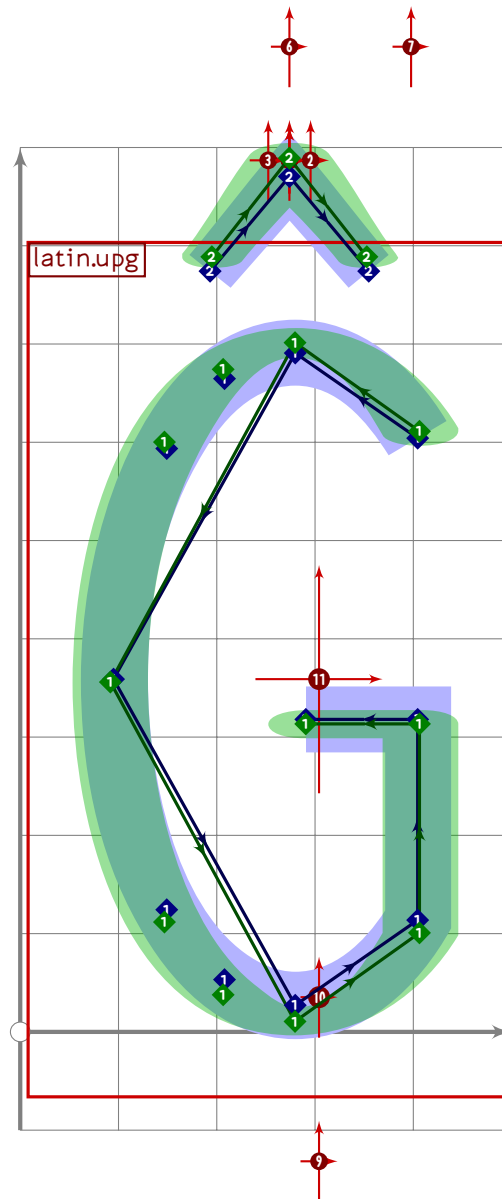
116 % E with breve
117 begintsuglyph("Ebreve",20);
118   tsu_accent.apply(tsu_accent.capital(latin.upe))(tsu_accent.breve);
119   tsu_render;
120 endtsuglyph;
121

```



[see page 359]





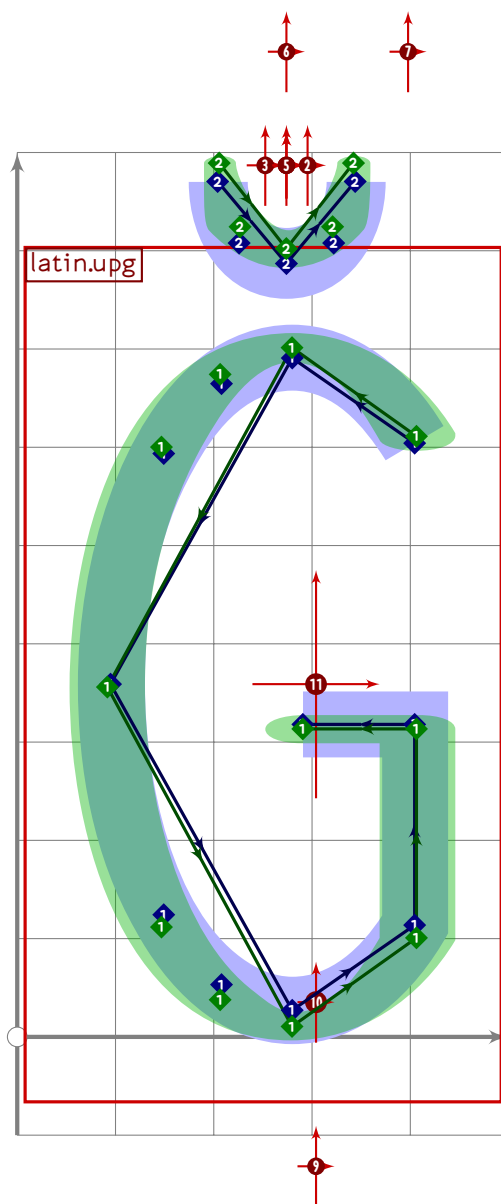
01

```

140 % G with circumflex
141 begintsuglyph("Gcircumflex";28);
142   tsu_accent.apply(tsu_accent.capital(latin.upg))(tsu_accent.circumflex);
143   tsu_render;
144 endtsuglyph;
145

```

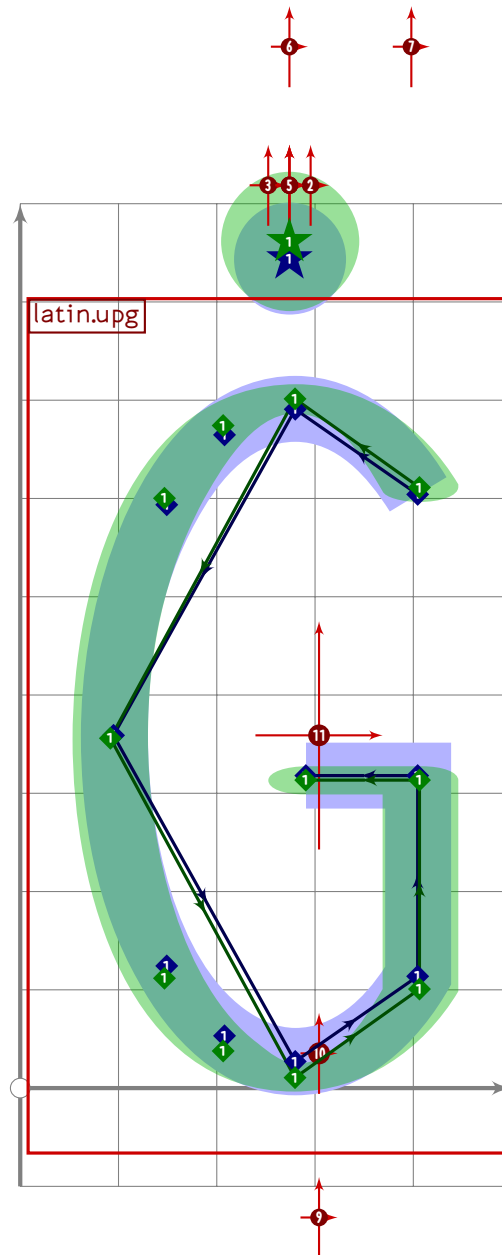

01



```

146 % G with breve
147 begintsuglyph("Gbreve";30);
148   tsu_accent.apply(tsu_accent.capital(latin.upg))(tsu_accent.breve);
149   tsu_render;
150 endsuglyph;
151

```



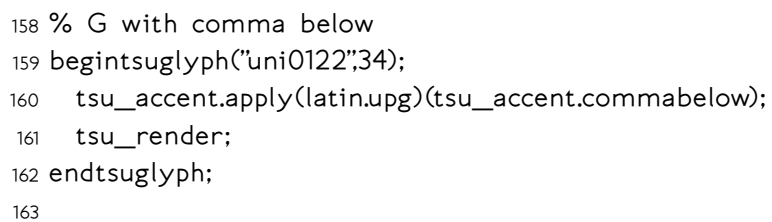
01

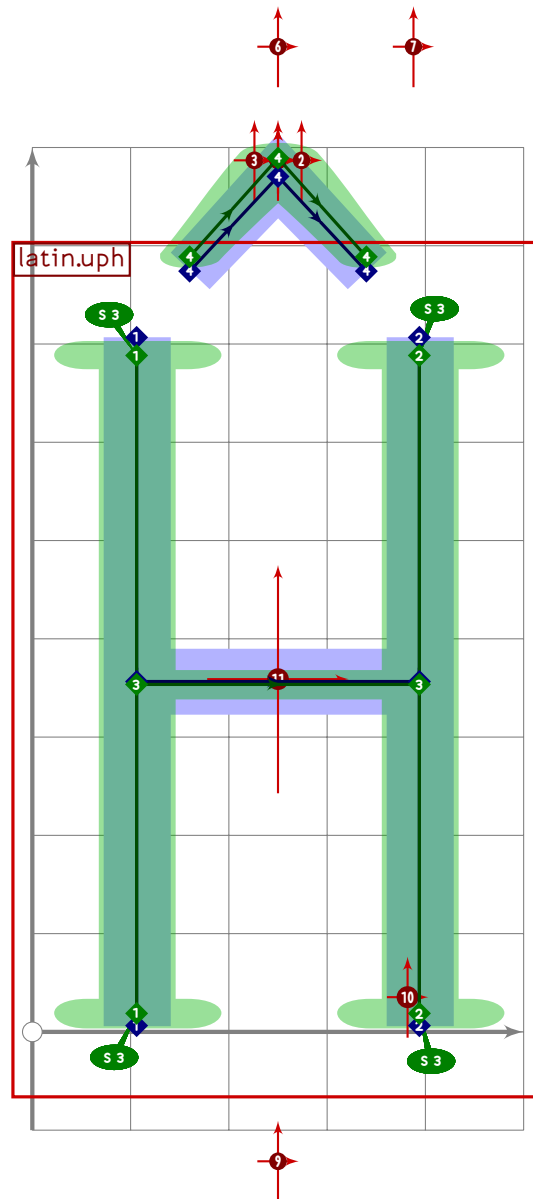
```

152 % G with dot
153 begintsuglyph("Gdotaccent";32);
154   tsu_accent.apply(tsu_accent.capital(latin.upg))(tsu_accent.dotabove);
155   tsu_render;
156 endtsuglyph;
157

```

01

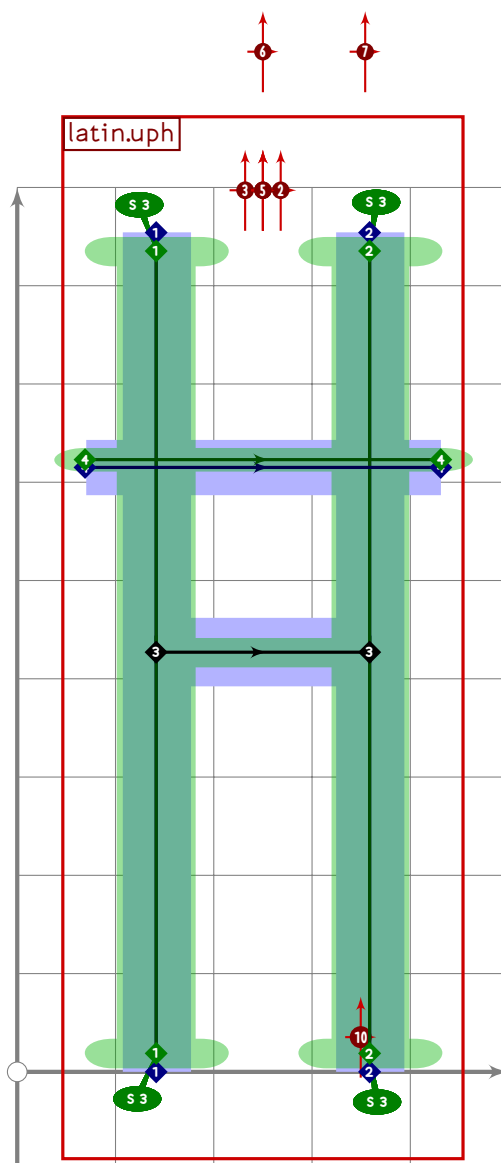




```

164 % H with circumflex
165 begintsuglyph("Hcircumflex";36);
166   tsu_accent.apply(tsu_accent.capital(latin.uph))(tsu_accent.circumflex);
167   tsu_render;
168 endsuglyph;
169

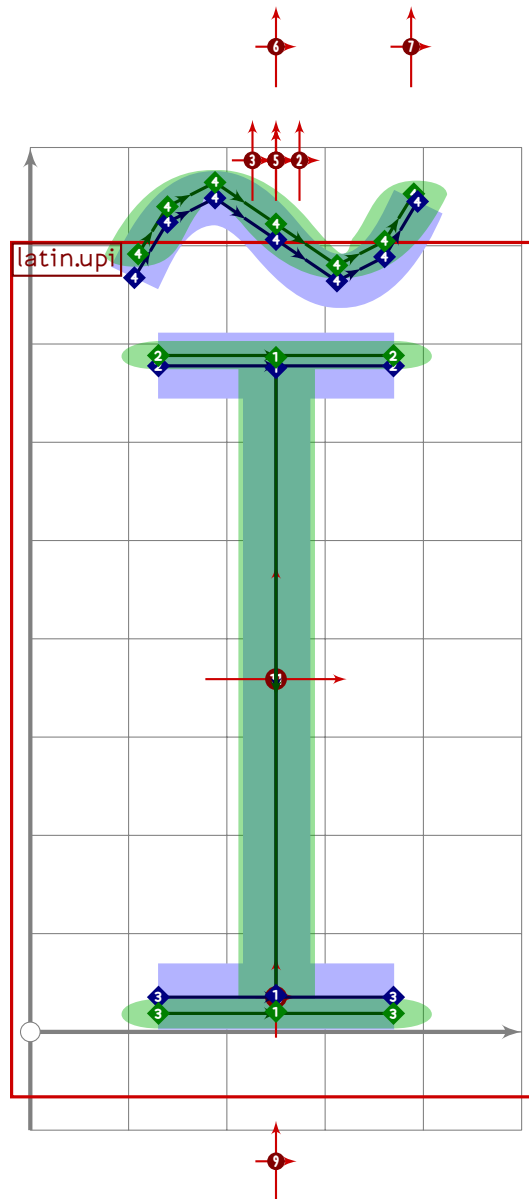
```



```

170 % H with bar
171 begintsuglyph("Hbar";38);
172   latin.uph;
173   push_stroke((100,vmetric(0.74))-(900,vmetric(0.74)),
174     (1.6,1.6)-(1.6,1.6));
175   set_bosize(0,80);
176   tsu_render;
177 endtsuglyph;
178

```



01

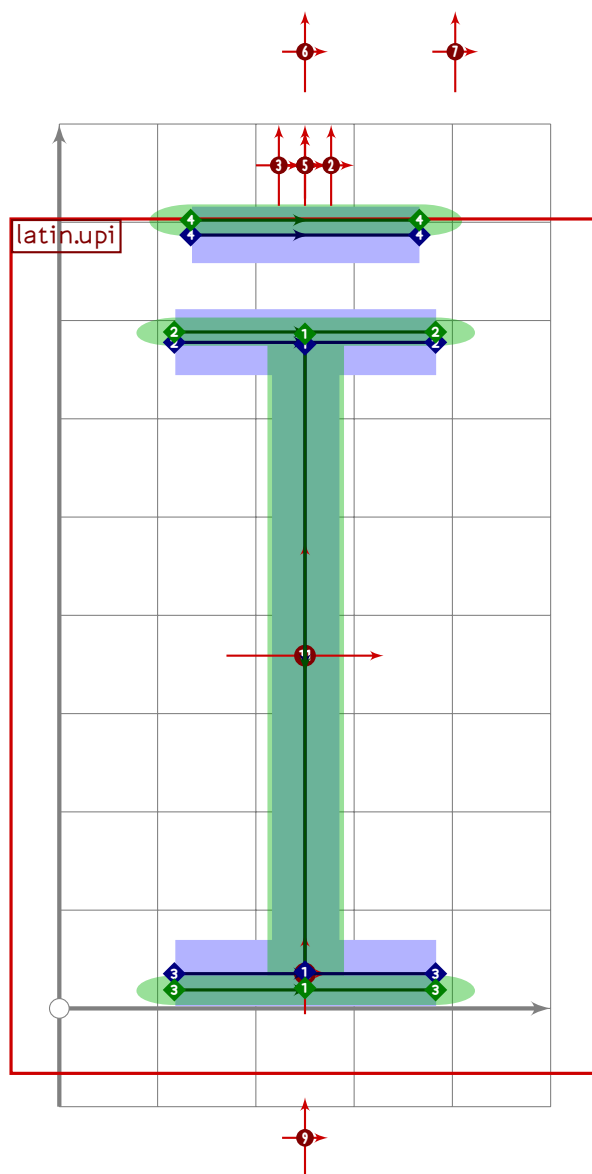
```

179 % I with tilde
180 begintsuglyph("Itilde";40);
181   tsu_accent.apply(tsu_accent.capital(latin.upi))(tsu_accent.tilde);
182   tsu_render;
183 endtsuglyph;
184

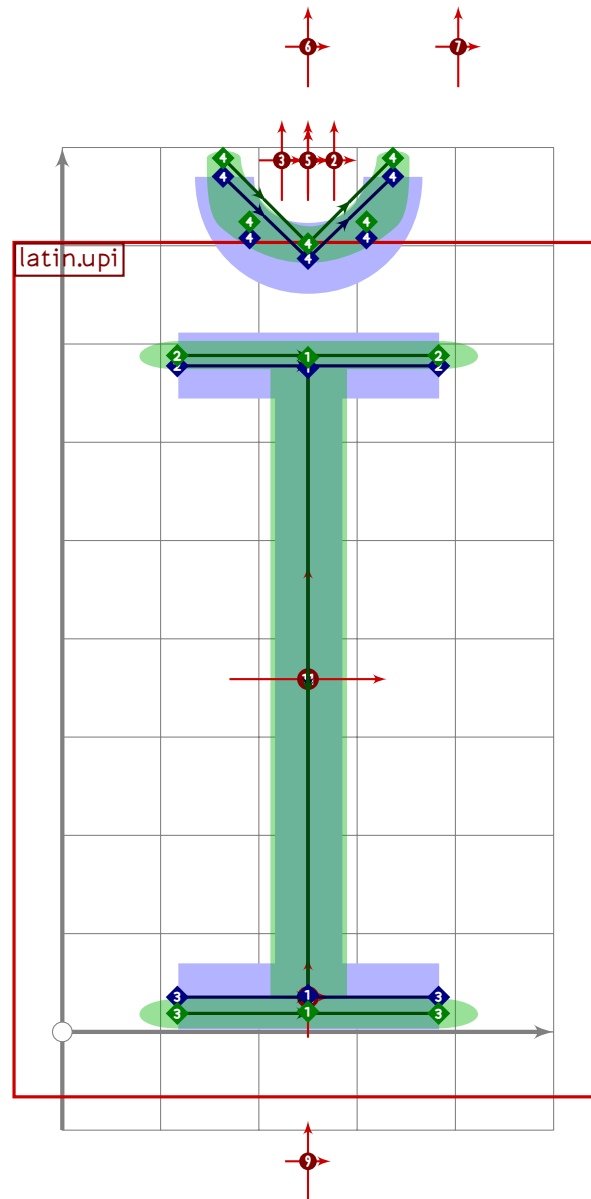
```

U+012A
tsuku.Imacron

01



```
185 % I with macron
186 begintsuglyph("Imacron";42);
187   tsu_accent.apply(tsu_accent.capital(latin.upi))(tsu_accent.macron);
188   tsu_render;
189 endsuglyph;
190
```



01

```

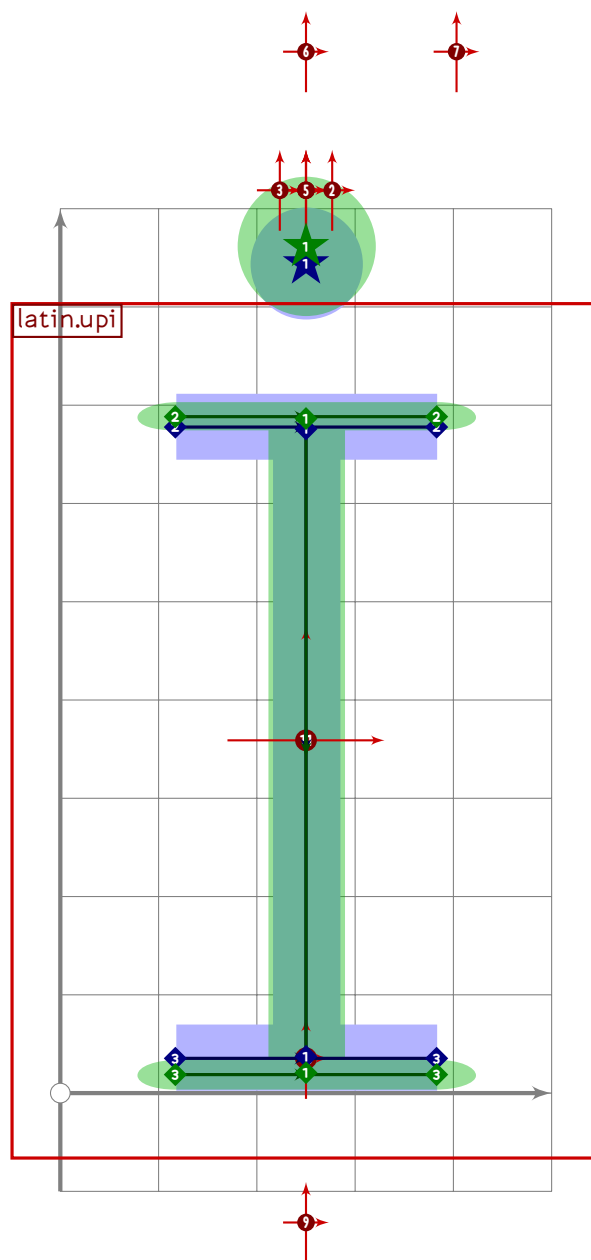
191 % I with breve
192 begintsuglyph("Ibreve";44);
193   tsu_accent.apply(tsu_accent.capital(latin.upi))(tsu_accent.breve);
194   tsu_render;
195 endtsuglyph;
196
197 % I with ogonek
198 begintsuglyph("Iogonek";46);
199   latin.upiogonek;
200   tsu_render;
201 endtsuglyph;
202

```

[see page 360]

U+0130
tsuku.Idotaccent

01

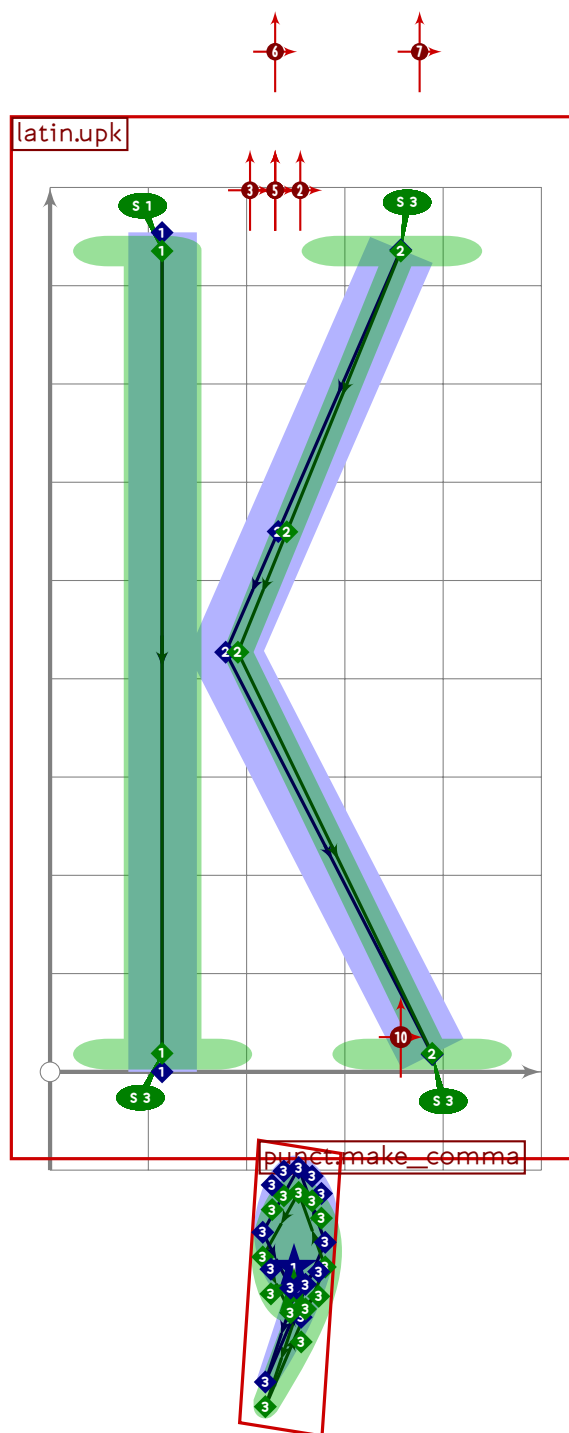


```
203 % I with dot
204 begintsuglyph("Idotaccent";48);
205   tsu_accent.apply(tsu_accent.capital(latin.upi))(tsu_accent.dotabove);
206   tsu_render;
207 endtsuglyph;
208
```



```
209 % J with circumflex
210 begintsuglyph("Jcircumflex",52);
211   tsu__accent.apply(tsu__accent.capital(latin.upj))(tsu__accent.circumflex);
212   tsu__render;
213 endtsuglyph;
214
```

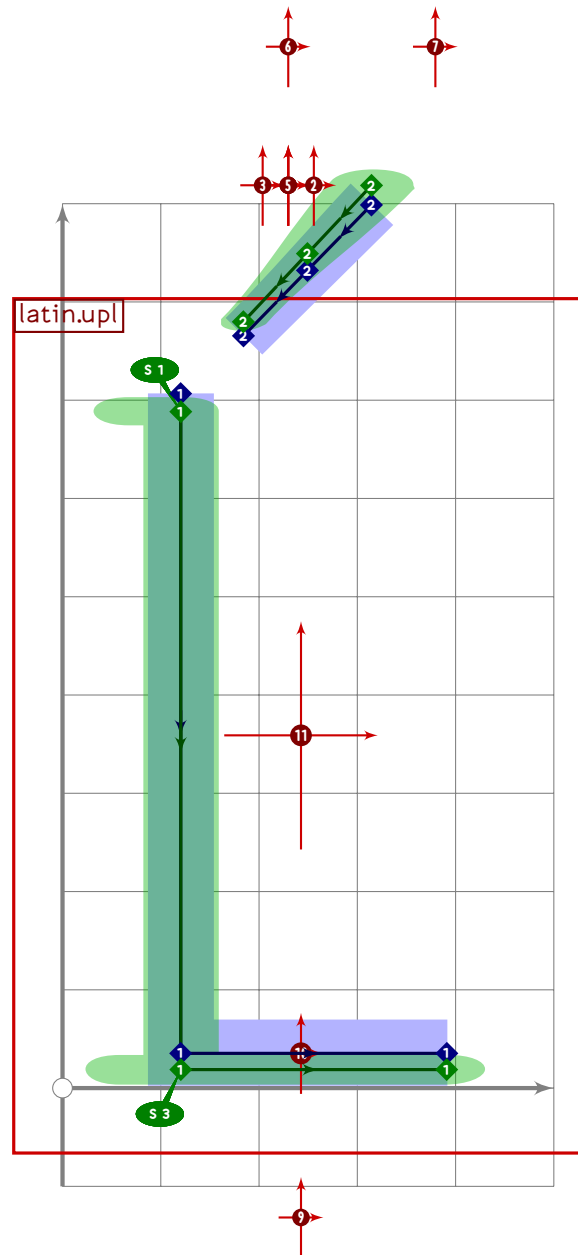
01



```

215 % K with comma below
216 beginsuglyph('uni0136';54);
217   tsu_accent.apply(latin.upk)(tsu_accent.commabelow);
218   tsu_render;
219 endtsuglyph;
220

```



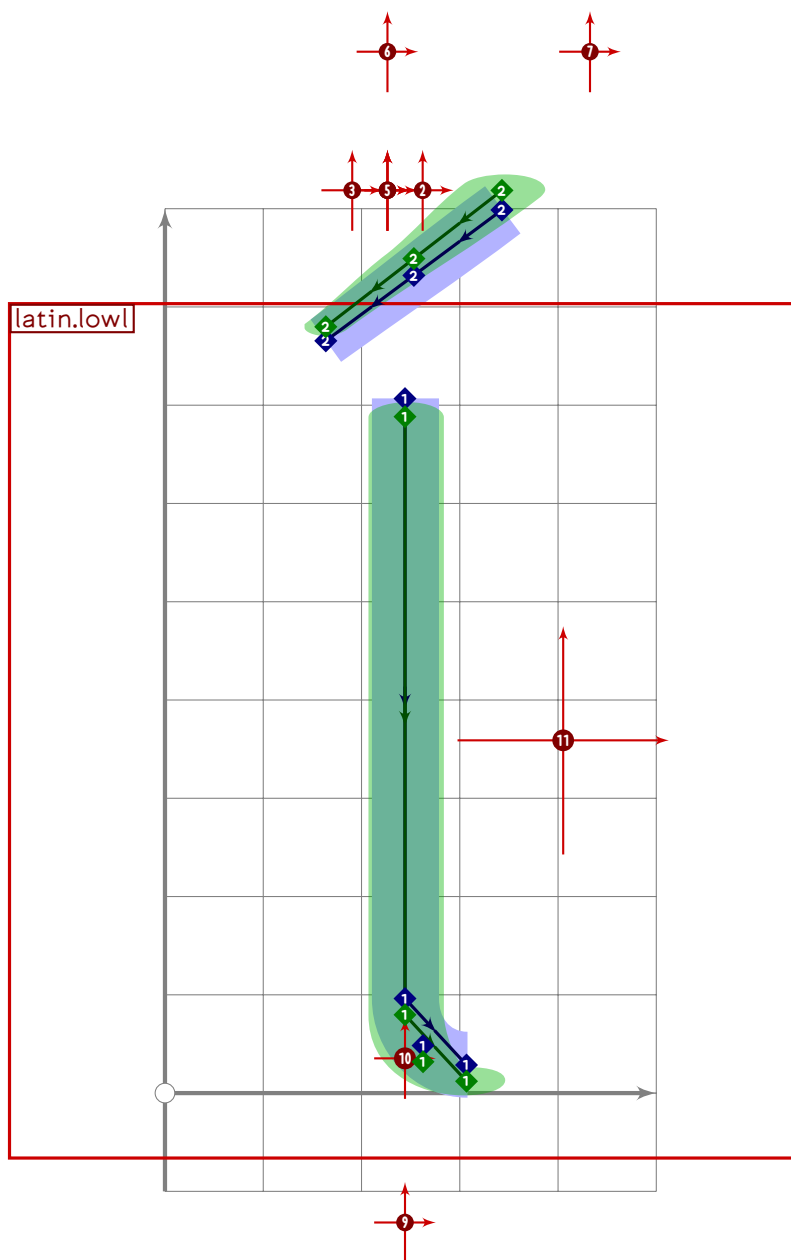
01

```

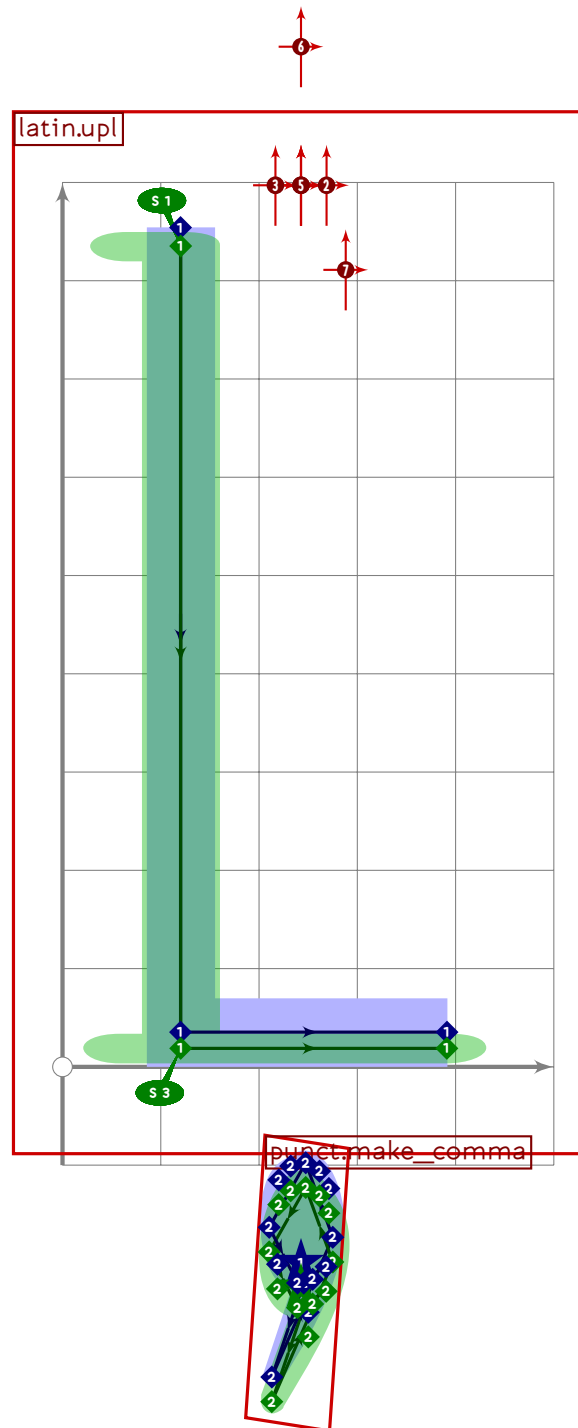
221 % L with acute
222 begintsuglyph("Lacute",57);
223   tsu_accent.apply(tsu_accent.capital(latin.upl))(tsu_accent.acute);
224   tsu_render;
225 endtsuglyph;
226

```

01



1260

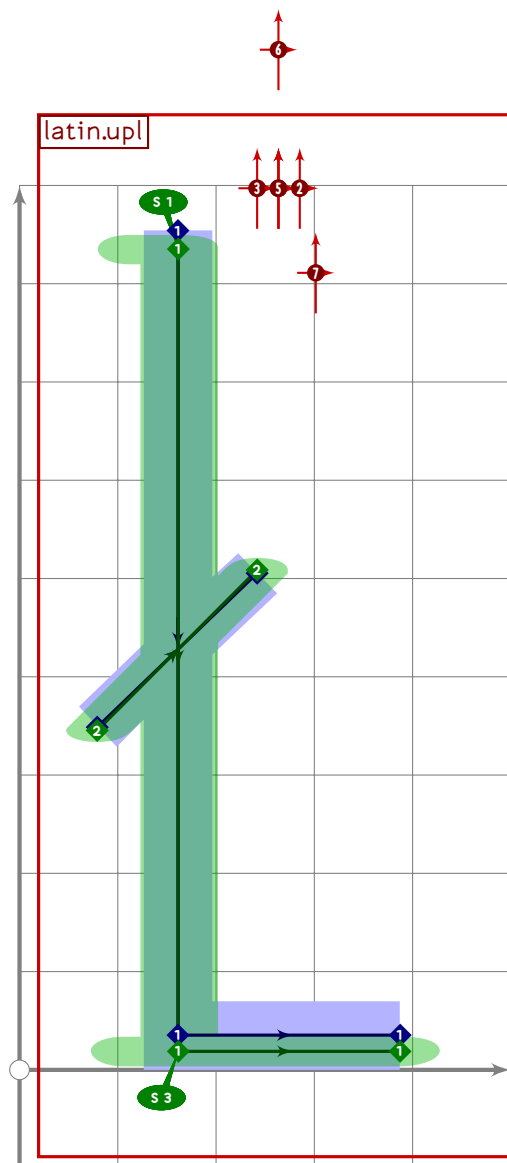


01

```

233 % L with comma below
234 beginsuglyph('uni013B';59);
235   tsu_accent.apply(latin.upl)(tsu_accent.commabelow);
236   tsu_render;
237 endsuglyph;
238

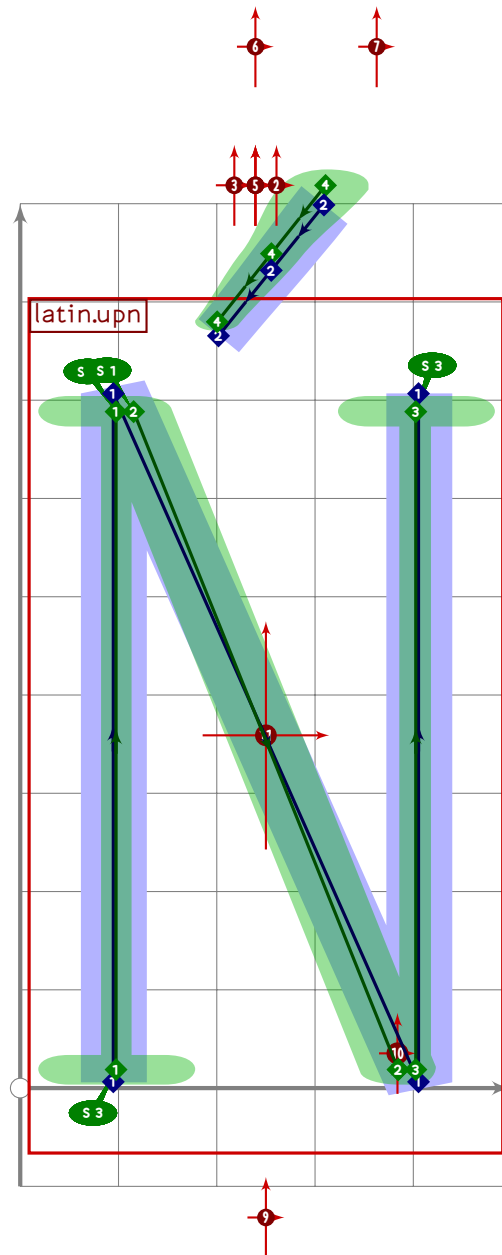
```



```

239 % L with slash
240 begint Suglyph("Lslash";65);
241   latin.upl;
242   push_stroke((160,vmetric(0.40))-(460,vmetric(0.60)),
243     (1.6,1.6)-(1.6,1.6));
244   set_bosize(0,80);
245   tsu_render;
246 endtsuglyph;
247

```



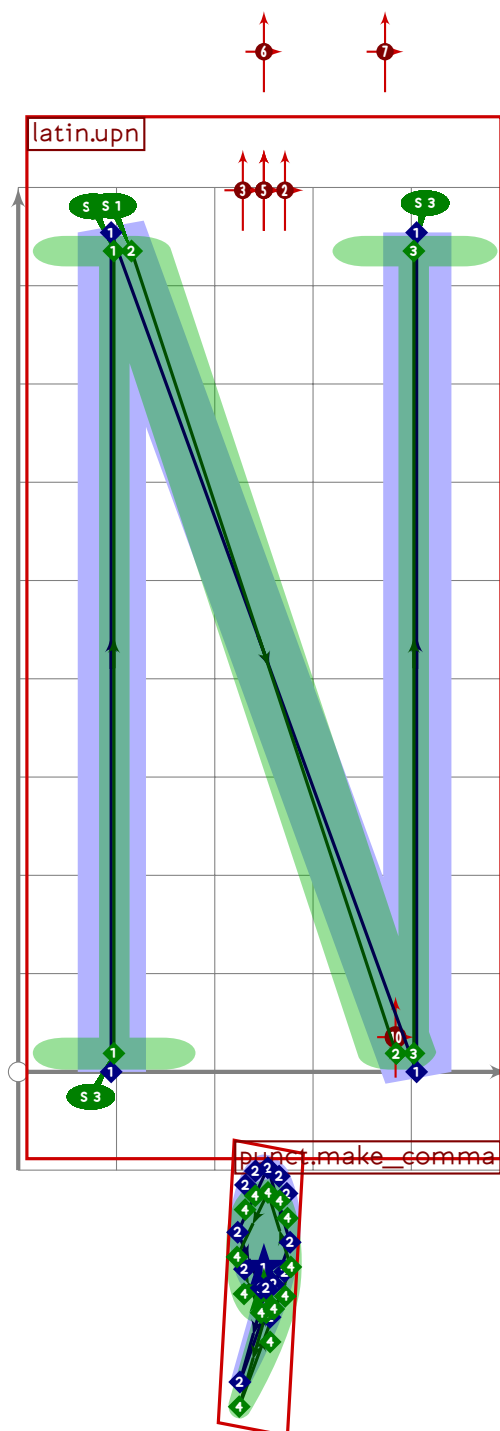
01

```

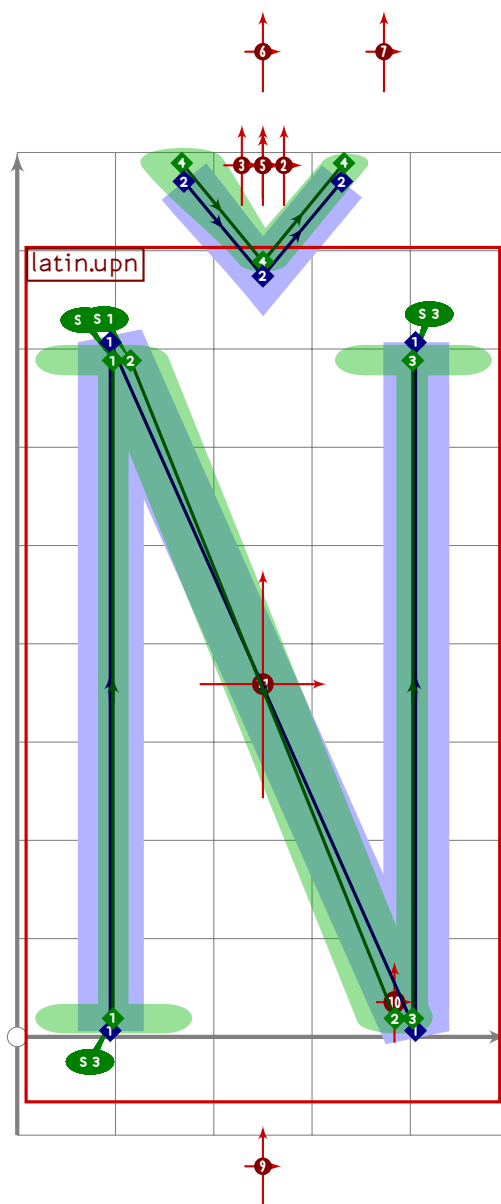
248 % N with acute
249 begint Suglyph("Nacute";67);
250   tsu_accent.apply(tsu_accent.capital(latin.upn))(tsu_accent.acute);
251   tsu_render;
252 endtsuglyph;
253

```


01



1264



01

```

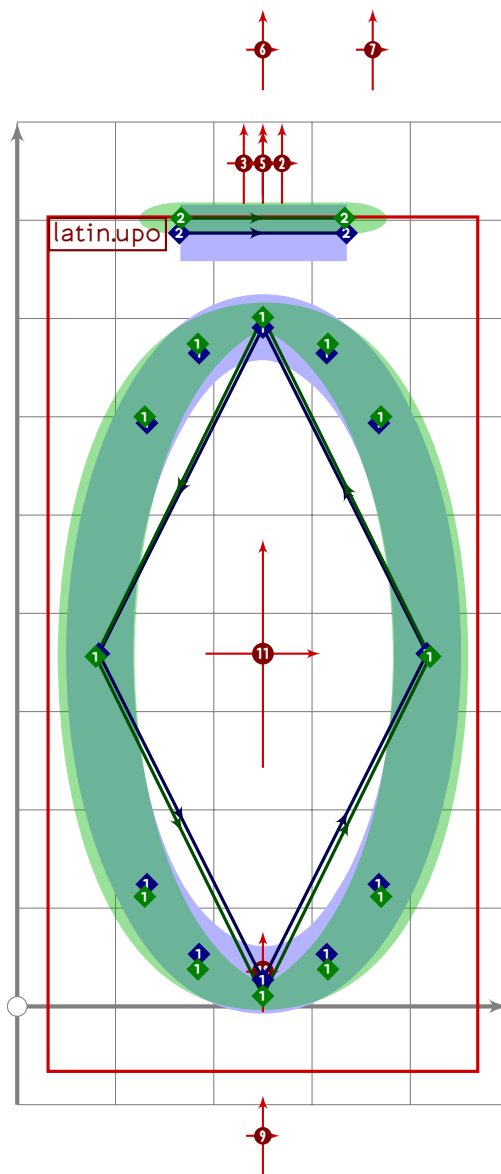
260 % N with caron
261 begintsuglyph("Ncaron";71);
262 tsu_accent.apply(tsu_accent.capital(latin.upn))(tsu_accent.caron);
263 tsu_render;
264 endtsuglyph;
265
266 % uppercase Eng
267 begintsuglyph("Eng";74);
268 latin.upeng;
269 tsu_render;
270 endtsuglyph;
271

```

[see page 280]

U+014C
tsuku.Omacron

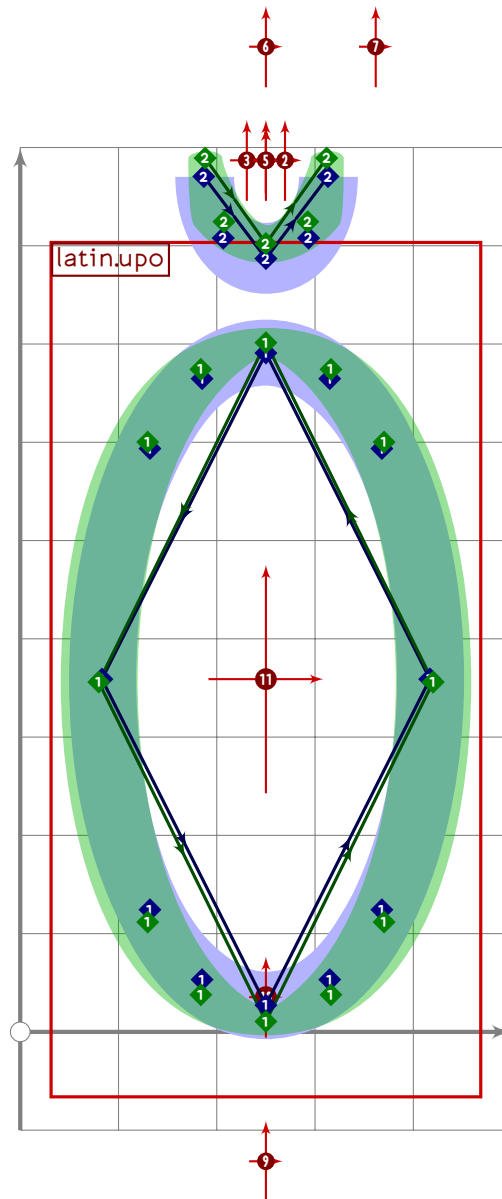
01



```

272 % O with macron
273 beginsuglyph("Omacron",76);
274   tsu_accent.apply(tsu_accent.capital(latin.upo))(tsu_accent.macron);
275   tsu_render;
276 endsuglyph;
277

```



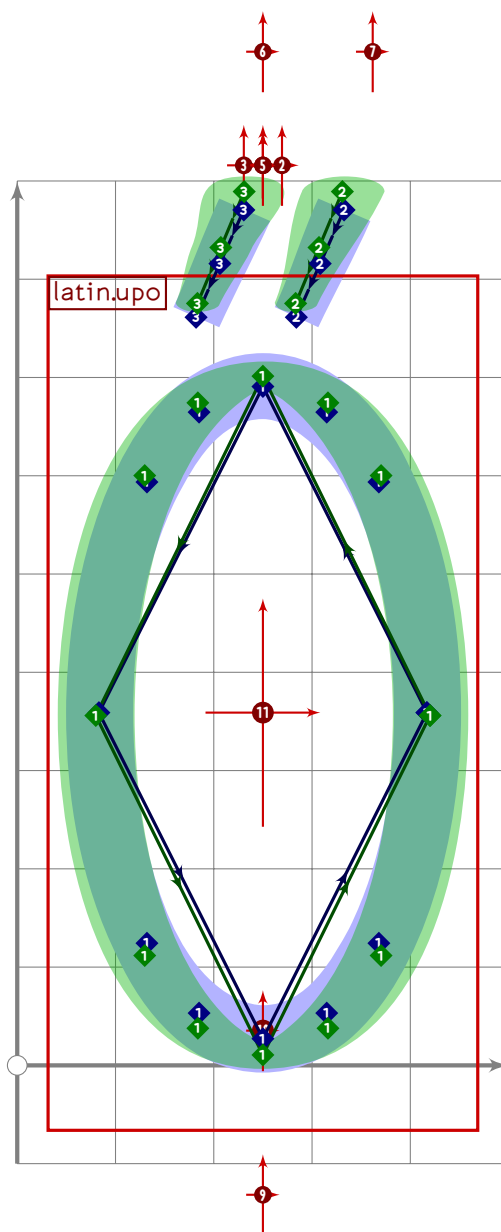
01

```

278 % O with breve
279 begintsuglyph("Obreve";78);
280   tsu_accent.apply(tsu_accent.capital(latin.upo))(tsu_accent.breve);
281   tsu_render;
282 endtsuglyph;
283

```

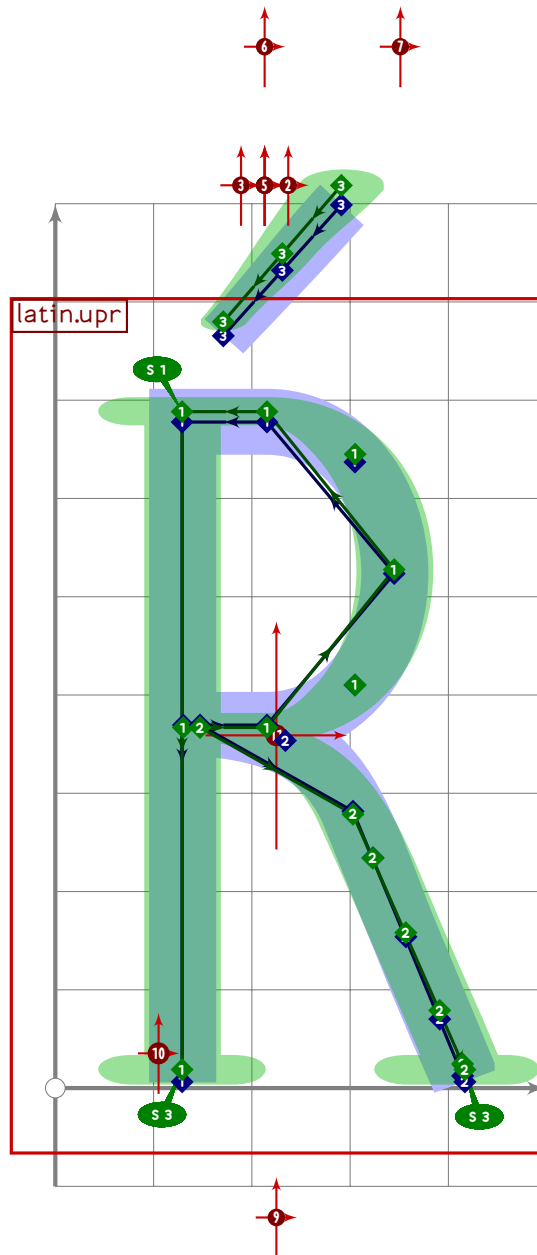
01



```

284 % Ö with Hungarian umlaut
285 begintsuglyph("Öhungarumlaut",80);
286 tsu_accent.apply(tsu_accent.capital(latin.upo))(tsu_accent.hungarian_umlaut);
287 tsu_render;
288 endsuglyph;
289

```

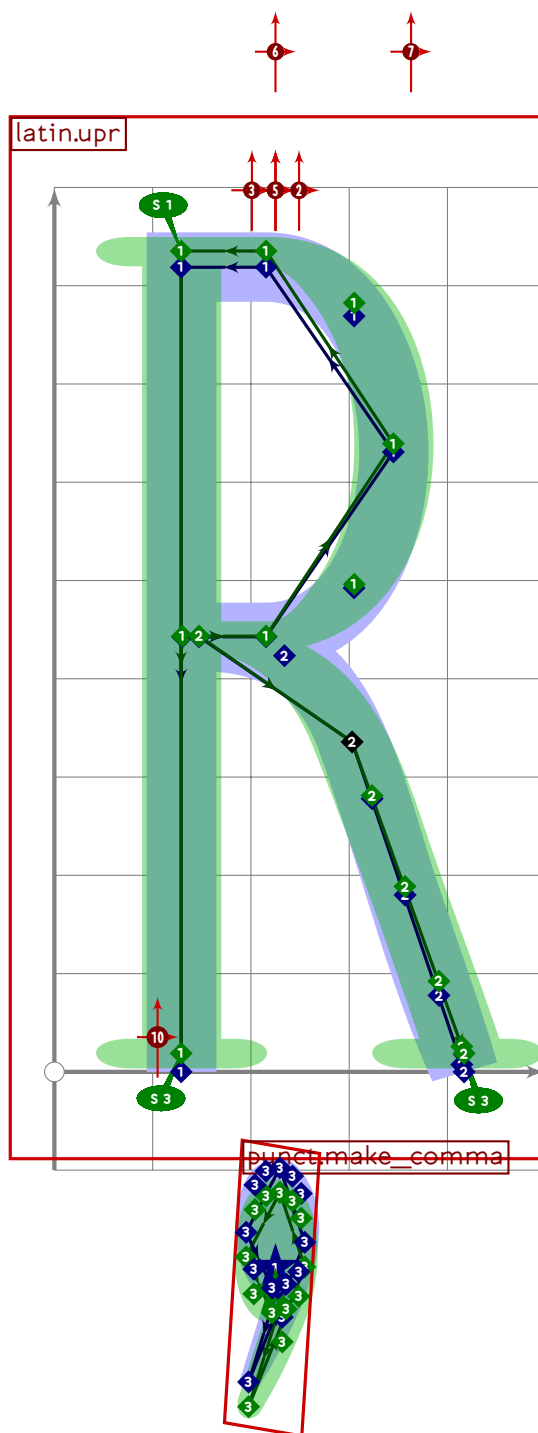


```

290 % R with acute
291 begintsuglyph("Racute";84);
292   tsu_accent.apply(tsu_accent.capital(latin.upr))(tsu_accent.acute);
293   tsu_render;
294 endtsuglyph;
295

```

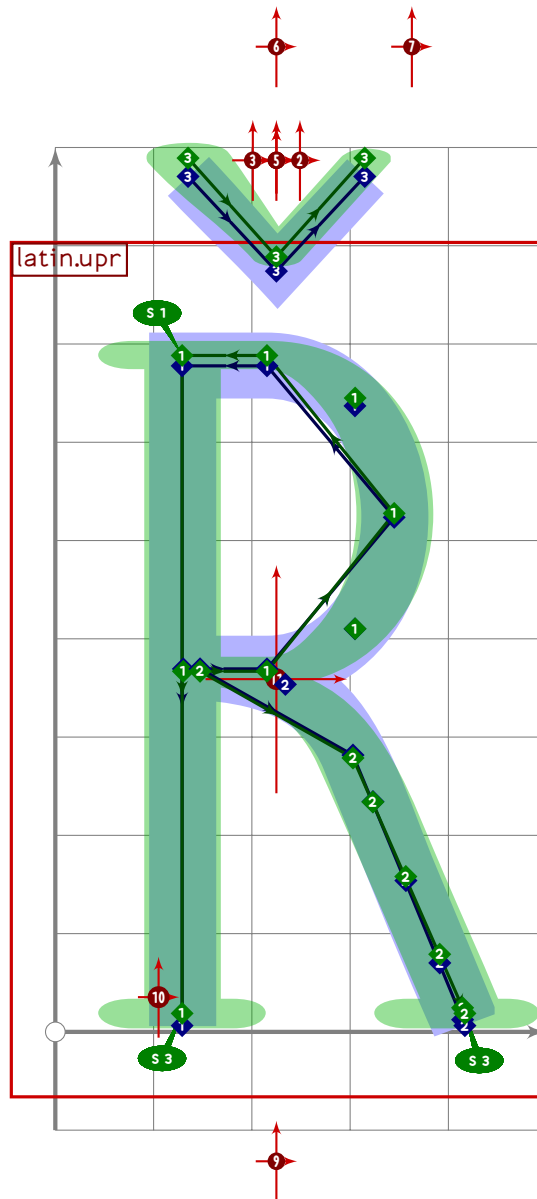
01



```

296 % R with comma below
297 beginsuglyph('uni0156';86);
298   tsu_accent.apply(latin.upr)(tsu_accent.commabelow);
299   tsu_render;
300 endtsuglyph;
301

```



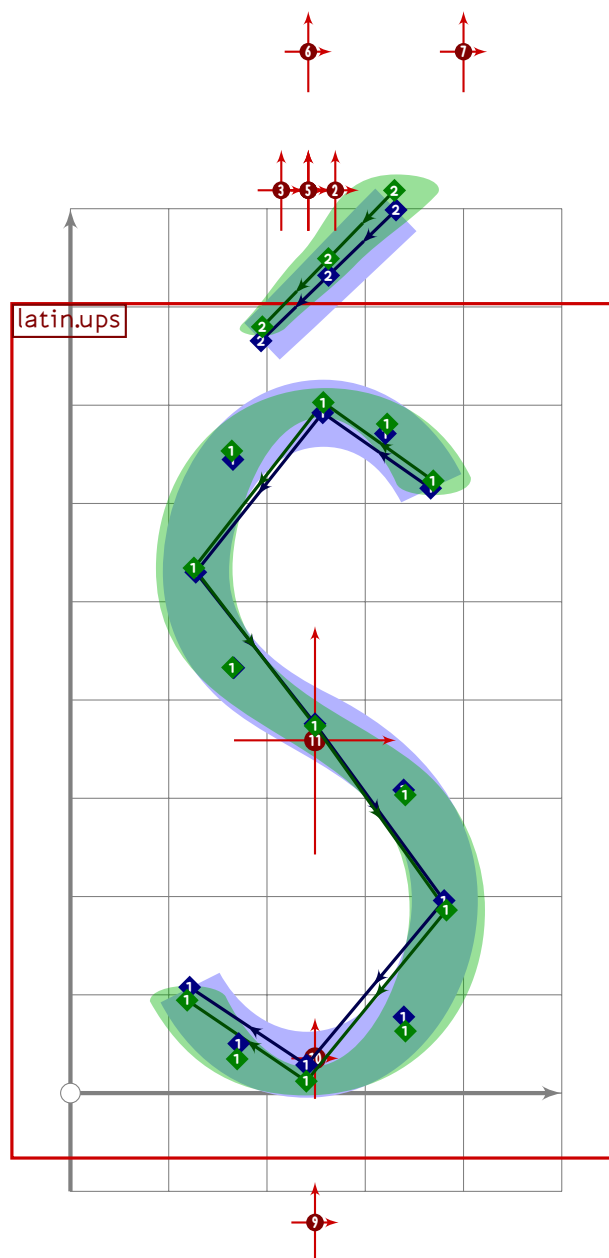
01

```

302 % R with caron
303 begintsuglyph("Rcaron";88);
304   tsu_accent.apply(tsu_accent.capital(latin.upr))(tsu_accent.caron);
305   tsu_render;
306 endtsuglyph;
307

```

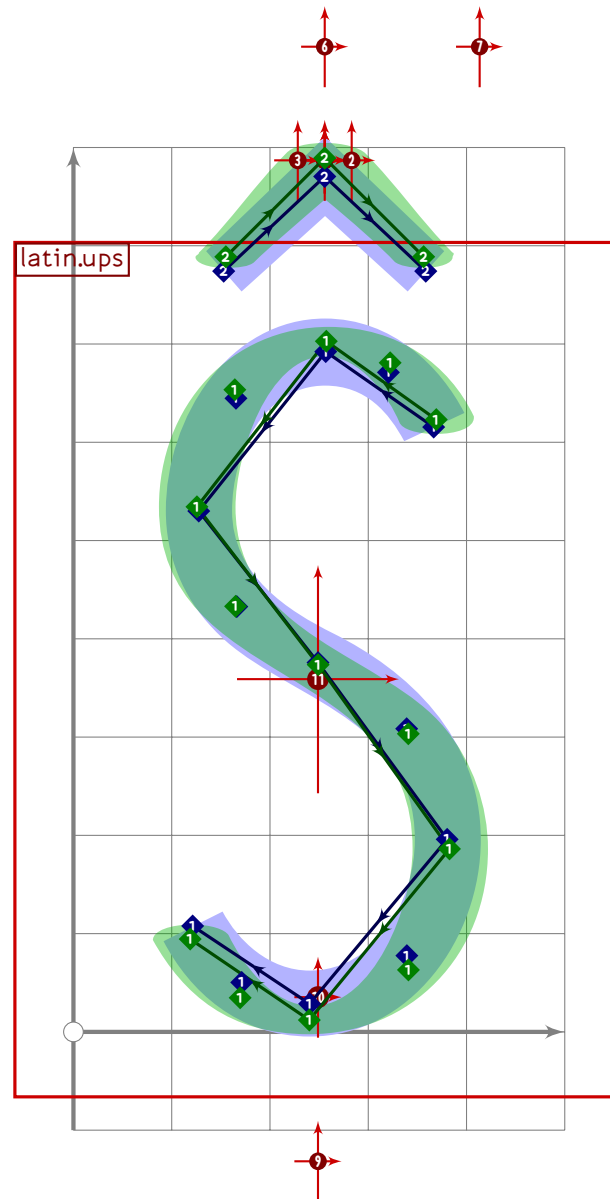

01



```

308 % S with acute
309 begint Suglyph("Sacute";90);
310   tsu_accent.apply(tsu_accent.capital(latin.ups))(tsu_accent.acute);
311   tsu_render;
312 endtsuglyph;
313

```



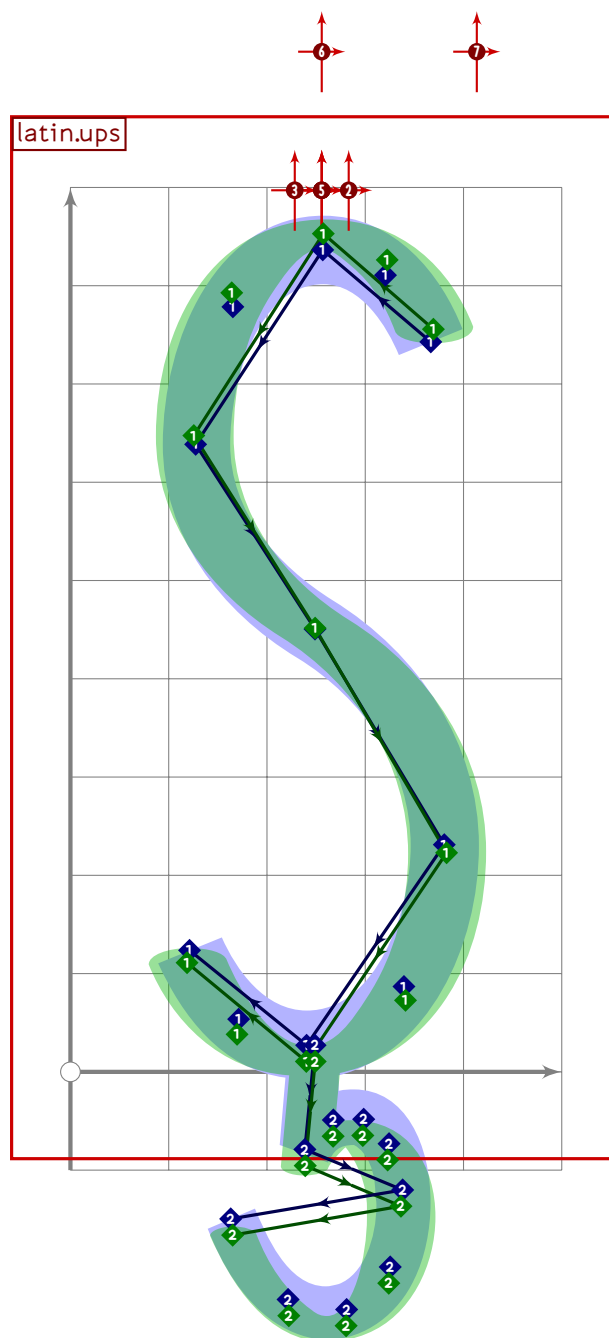
01

```

314 % S with circumflex
315 begintsuglyph("Scircumflex";92);
316   tsu_accent.apply(tsu_accent.capital(latin.ups))(tsu_accent.circumflex);
317   tsu_render;
318 endtsuglyph;
319

```

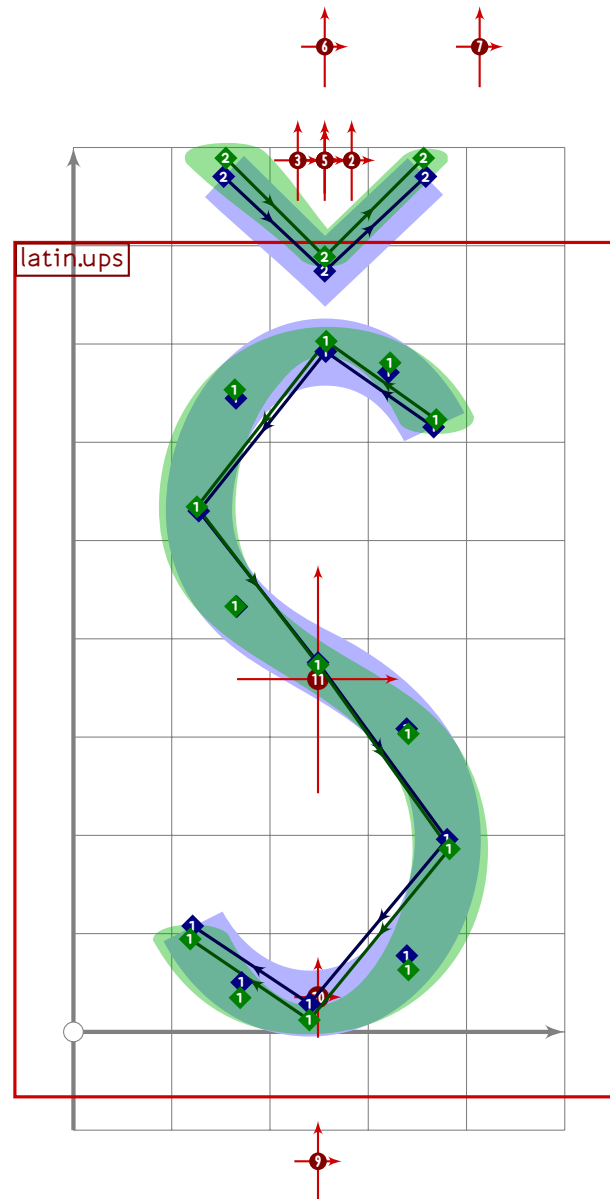
01



```

320 % S with cedilla
321 begintsuglyph("Scedilla";94);
322   tsu_accent.apply(latin.ups)(tsu_accent.cedilla);
323   tsu_render;
324 endtsuglyph;
325

```



01

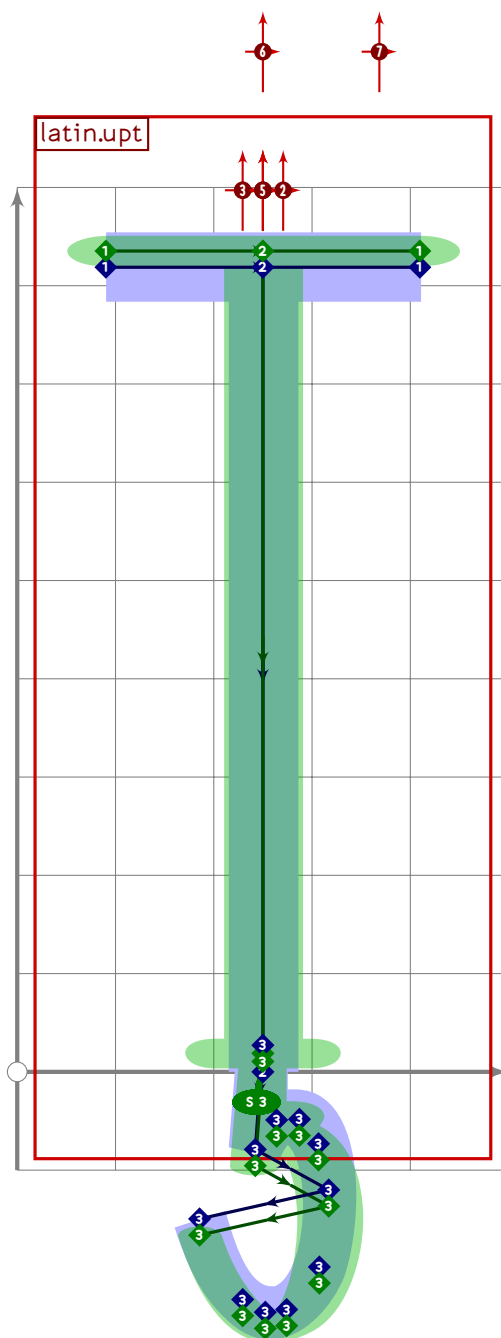
```

326 % S with caron
327 begintsuglyph("Scaron";96);
328   tsu_accent.apply(tsu_accent.capital(latin.ups))(tsu_accent.caron);
329   tsu_render;
330 endsuglyph;
331

```

U+0162
tsuku.uni0162

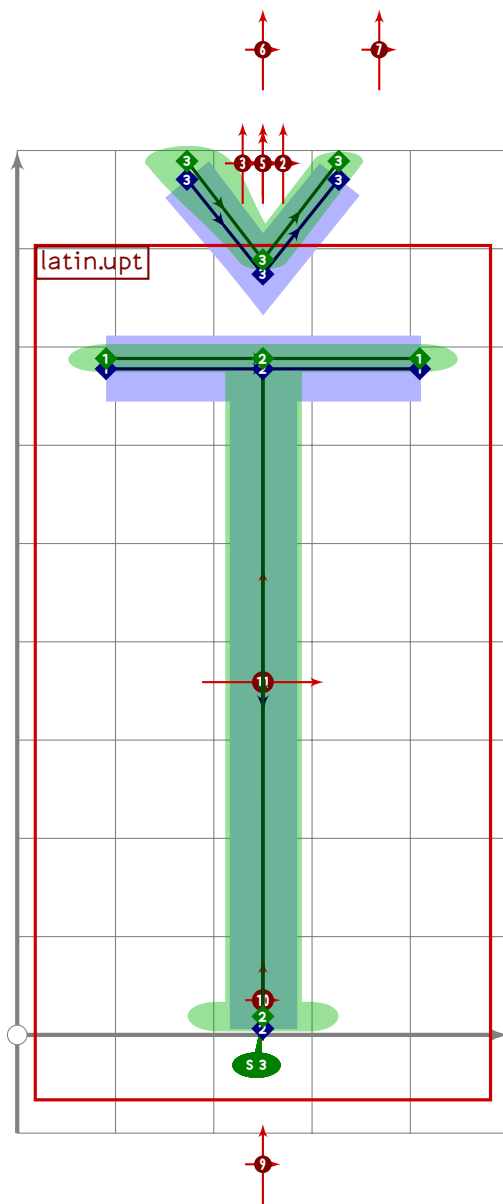
01



```

332 % T with cedilla [sic]
333 beginsuglyph('uni0162';98);
334   tsu_accent.apply(latin.upt)(tsu_accent.cedilla);
335   tsu_render;
336 endtsuglyph;
337

```



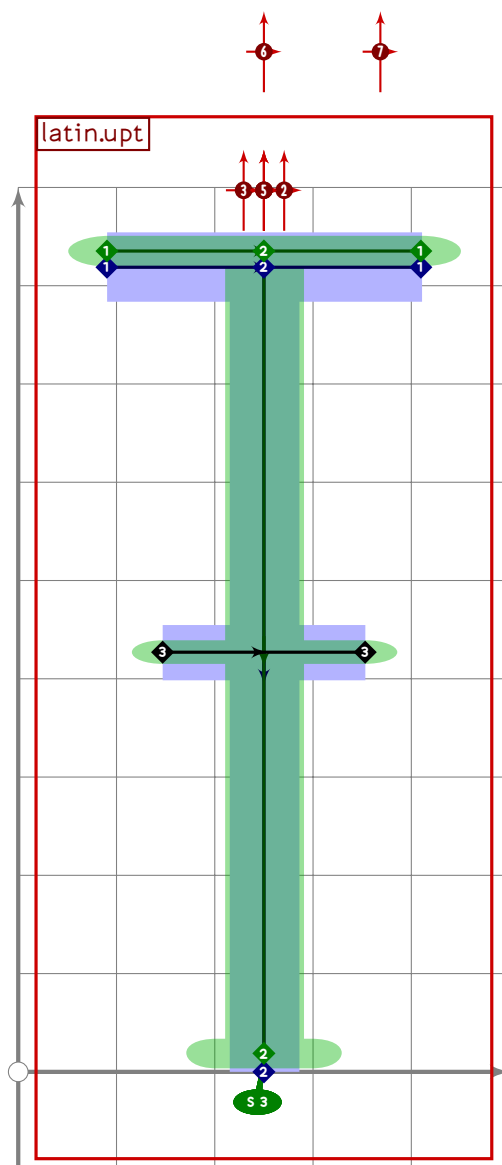
```

338 % T with caron
339 begintsuglyph("Tcaron",100);
340   tsu__accent.apply(tsu__accent.capital(latin.upt))(tsu__accent.caron);
341   tsu__render;
342 endtsuglyph;
343

```

U+0166
tsuku.Tbar

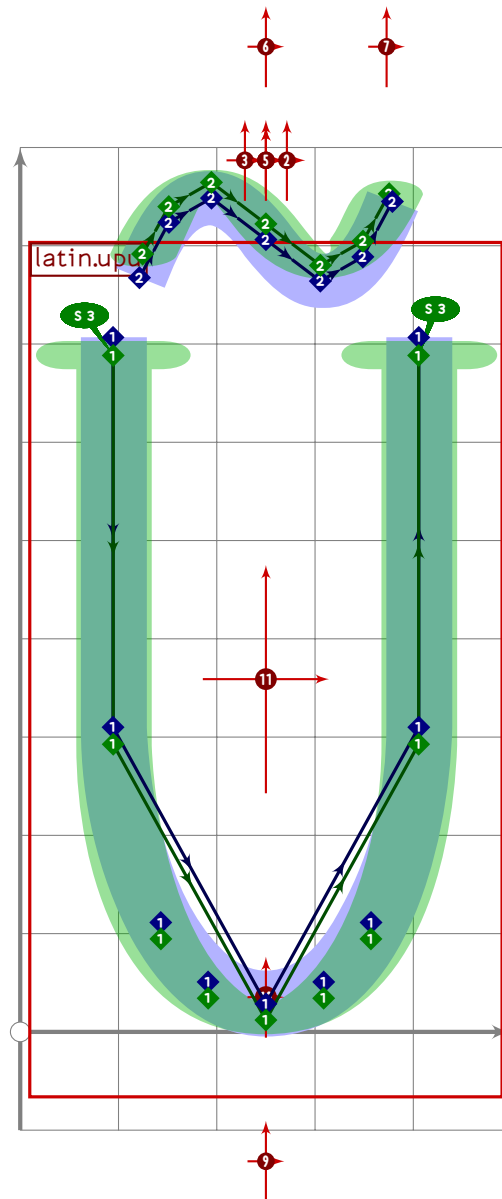
01



```

344 % T with bar
345 begintsuglyph("Tbar";102);
346 latin.upt;
347 push_stroke((300,vmetric(0.5))-(700,vmetric(0.5)),
348   (1.6,1.6)-(1.6,1.6));
349 set_bosize(0,80);
350 tsu_render;
351 endsuglyph;
352

```

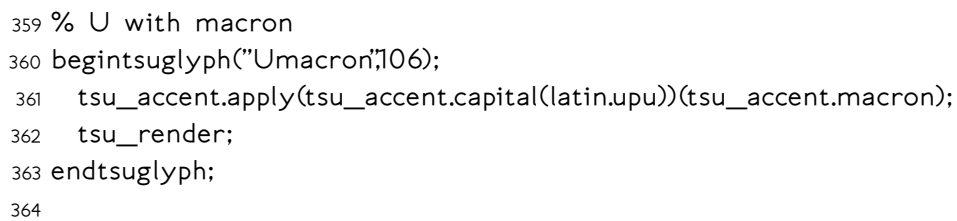


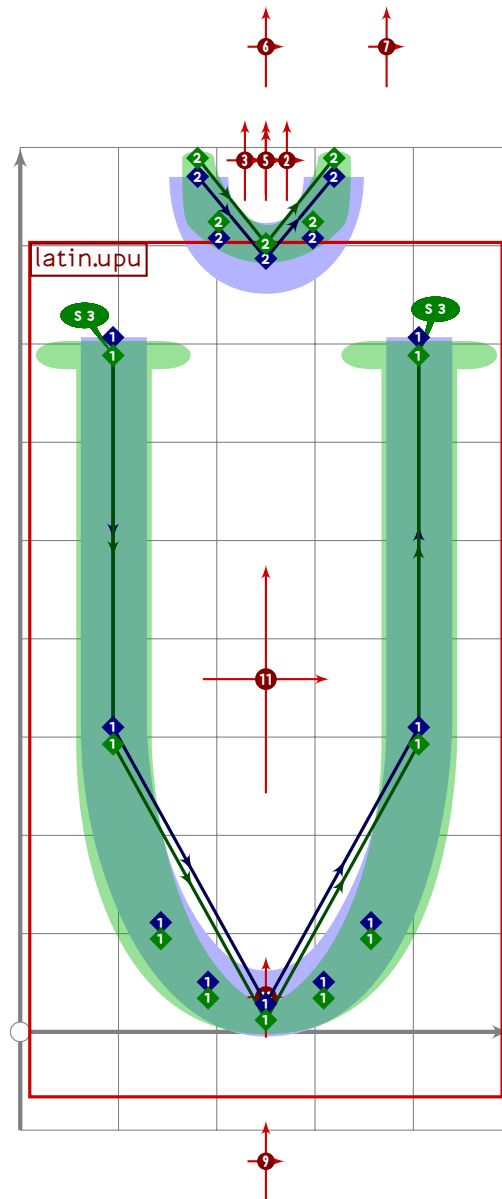
```

353 % U with tilde
354 begintsuglyph("Utilde";104);
355   tsu_accent.apply(tsu_accent.capital(latin.upu))(tsu_accent.tilde);
356   tsu_render;
357 endtsuglyph;
358

```


01



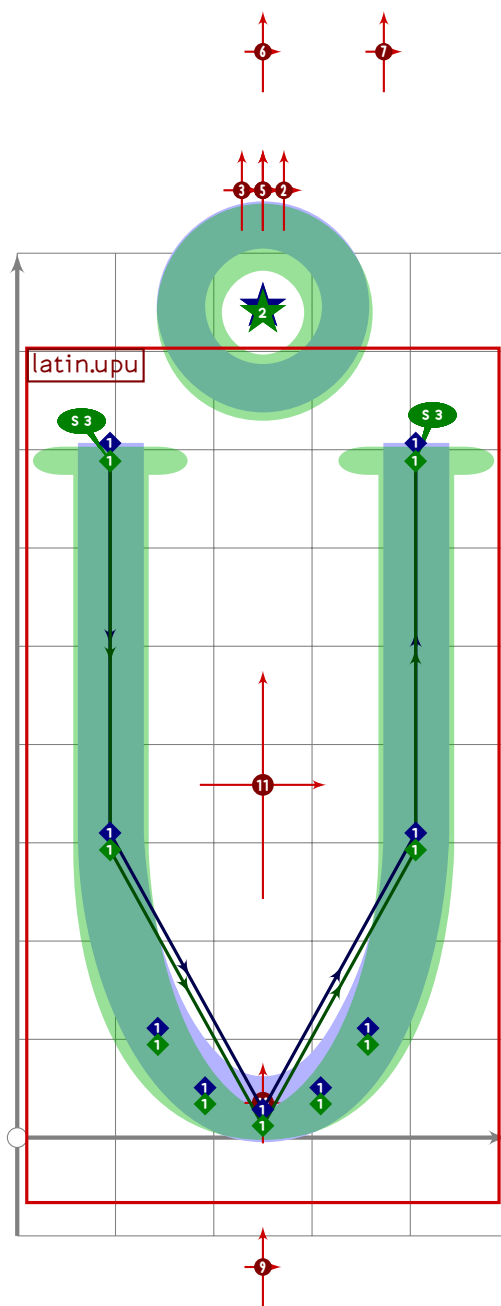


```

365 % U with breve
366 begintsuglyph("Ubreve",108);
367   tsu_accent.apply(tsu_accent.capital(latin.upu))(tsu_accent.breve);
368   tsu_render;
369 endtsuglyph;
370

```

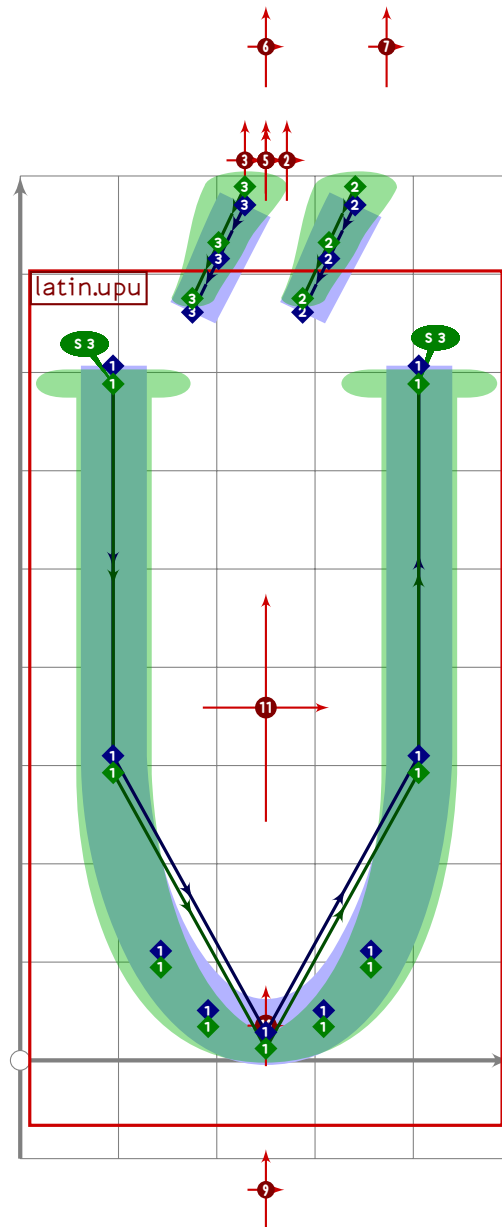
01



```

371 % U with ring above
372 begintsuglyph("Uring",110);
373   tsu_accent.apply(tsu_accent.capital(latin.upu))(tsu_accent.ringabove);
374   tsu_render;
375 endtsuglyph;
376

```



```

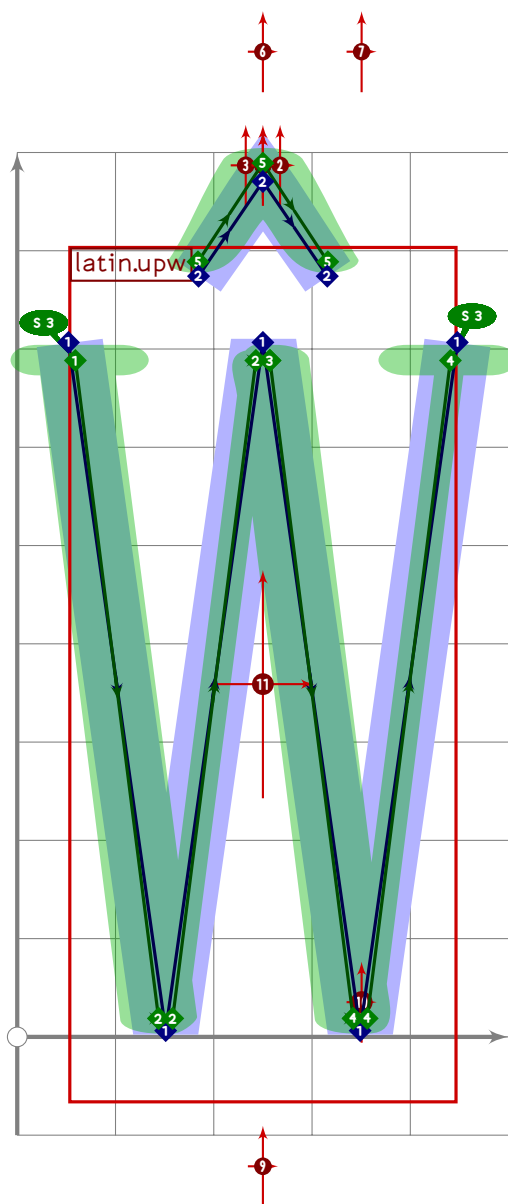
377 % U with Hungarian umlaut
378 begintsuglyph("Uhungarumlaut";112);
379 tsu_accent.apply(tsu_accent.capital(latin.upu))(tsu_accent.hungarian_umlaut);
380 tsu_render;
381 endtsuglyph;
382
383 % U with ogonek
384 begintsuglyph("Uogonek";114);
385 latin.upuogonek;
386 tsu_render;
387 endtsuglyph;
388

```

[see page 362]

U+0174
tsuku.Wcircumflex

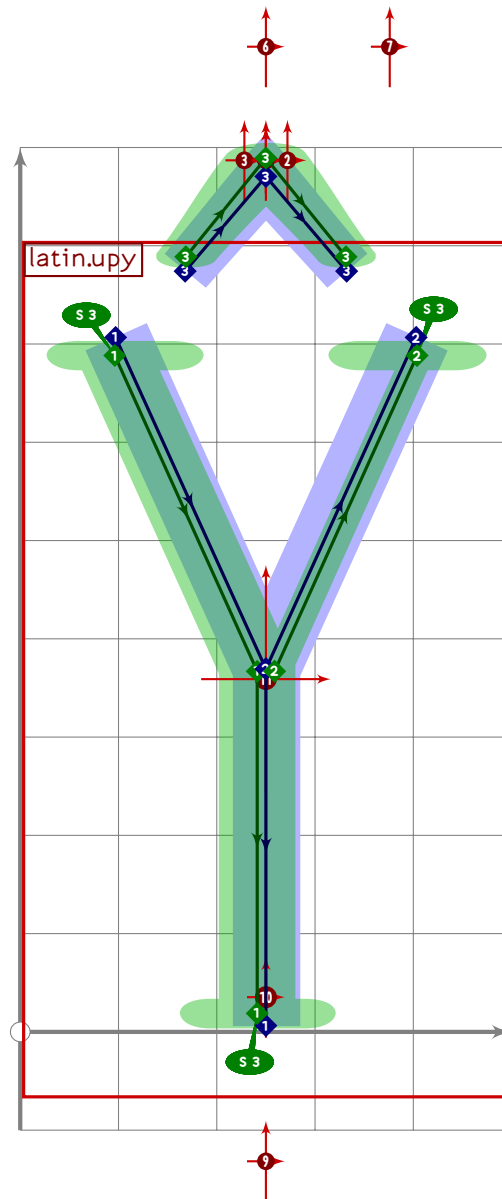
01



```

389 % W with circumflex
390 begint Suglyph("Wcircumflex",116);
391   tsu_accent.apply(tsu_accent.capital(latin.upw))(tsu_accent.circumflex);
392   tsu_render;
393 endtsuglyph;
394

```



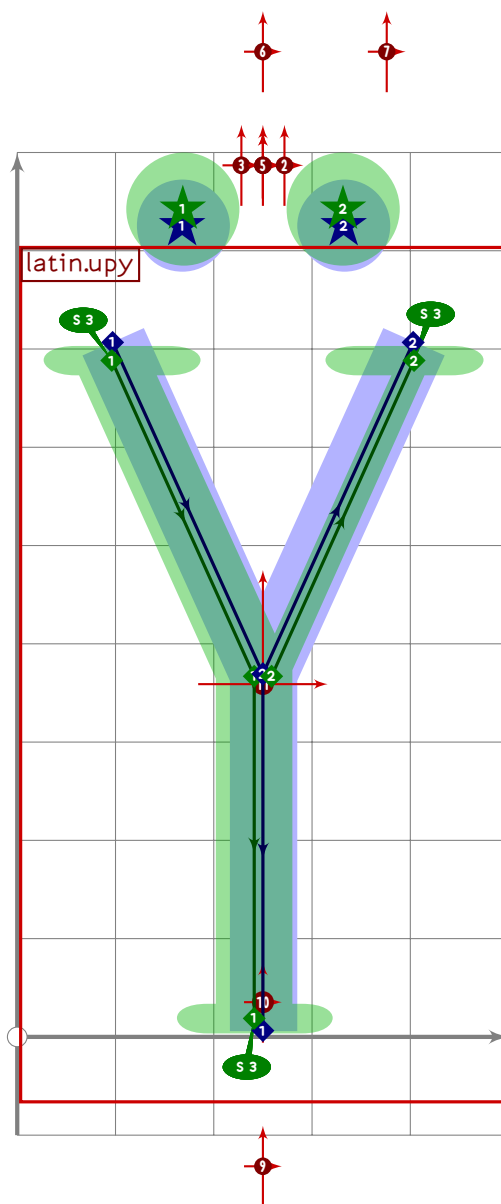
```

395 % Y with circumflex
396 begint Suglyph("Ycircumflex",118);
397   tsu_accent.apply(tsu_accent.capital(latin.upy))(tsu_accent.circumflex);
398   tsu_render;
399 endtsuglyph;
400

```

U+0178
tsuku.Ydieresis

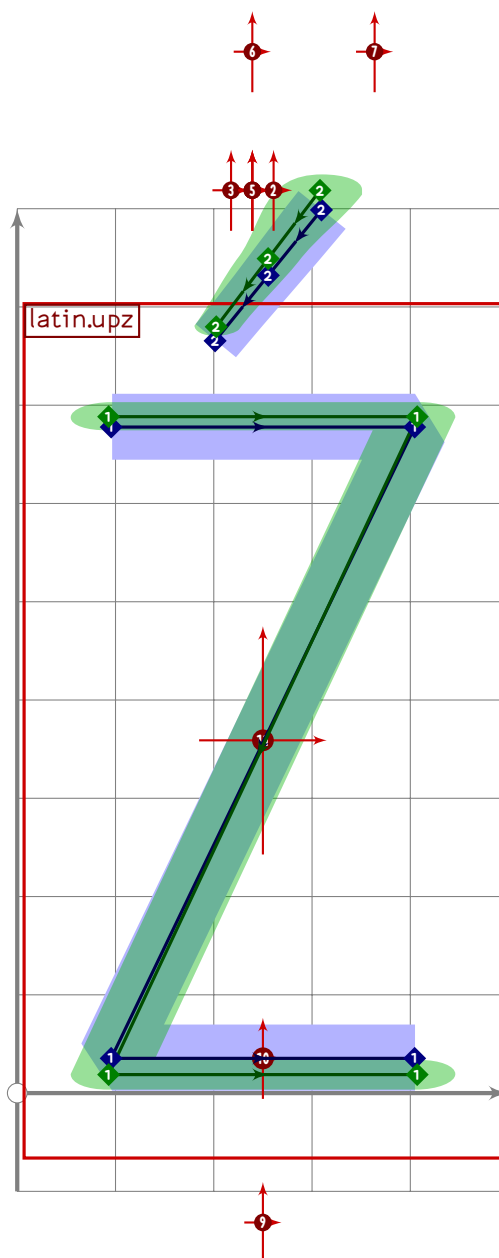
01



```

401 % Y with umlaut/dieresis
402 begintsuglyph("Ydieresis",120);
403   tsu_accent.apply(tsu_accent.capital(latin.upy))(tsu_accent.umlaut);
404   tsu_render;
405 endtsuglyph;
406

```



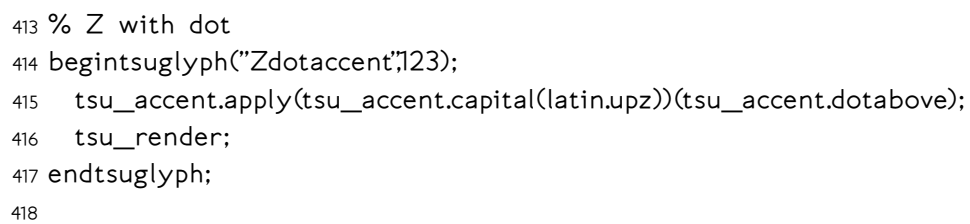
01

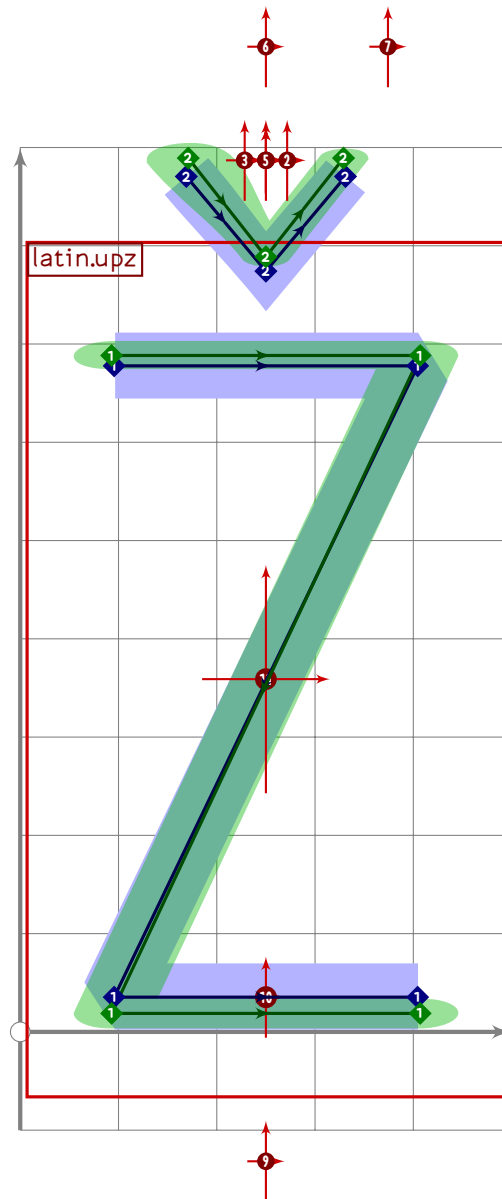
```

407 % Z with acute
408 begintsuglyph("Zacute";121);
409   tsu_accent.apply(tsu_accent.capital(latin.upz))(tsu_accent.acute);
410   tsu_render;
411 endtsuglyph;
412

```


01





01

```

419 % Z with caron
420 begintsuglyph("Zcaron",125);
421   tsu_accent.apply(tsu_accent.capital(latin.upz))(tsu_accent.caron);
422   tsu_render;
423 endtsuglyph;
424
425
426

```

Latin Extended A Lowercase

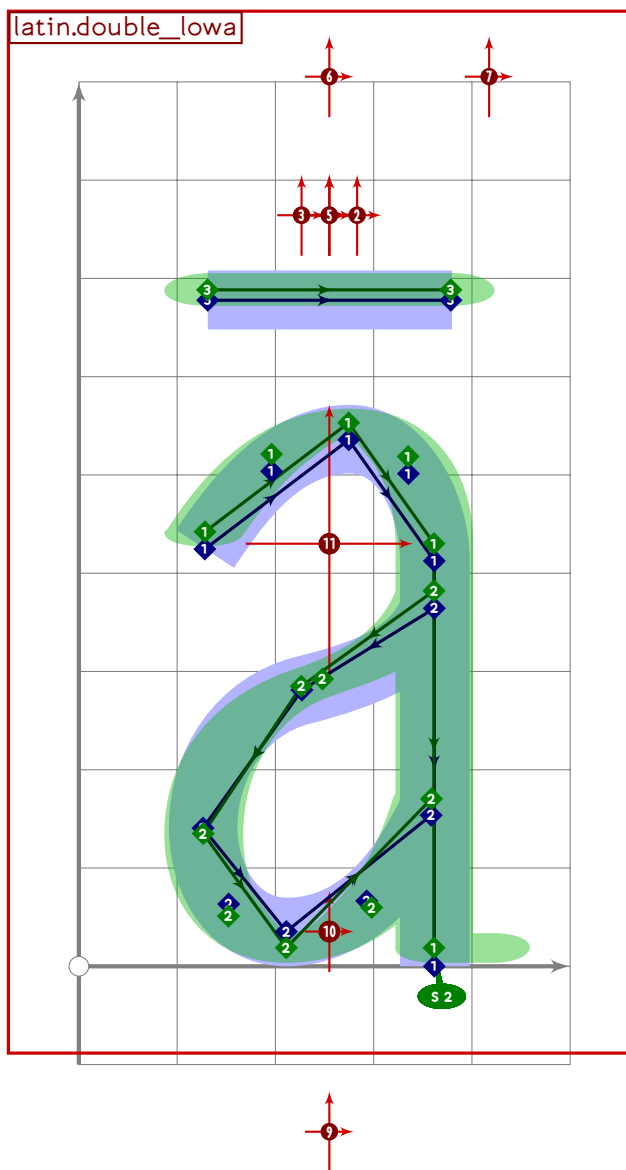
```

427 % LATIN EXTENDED A LOWERCASE
428
429 tsu_accent.low_default_anchors;
430

```

U+0101
tsuku.amacron

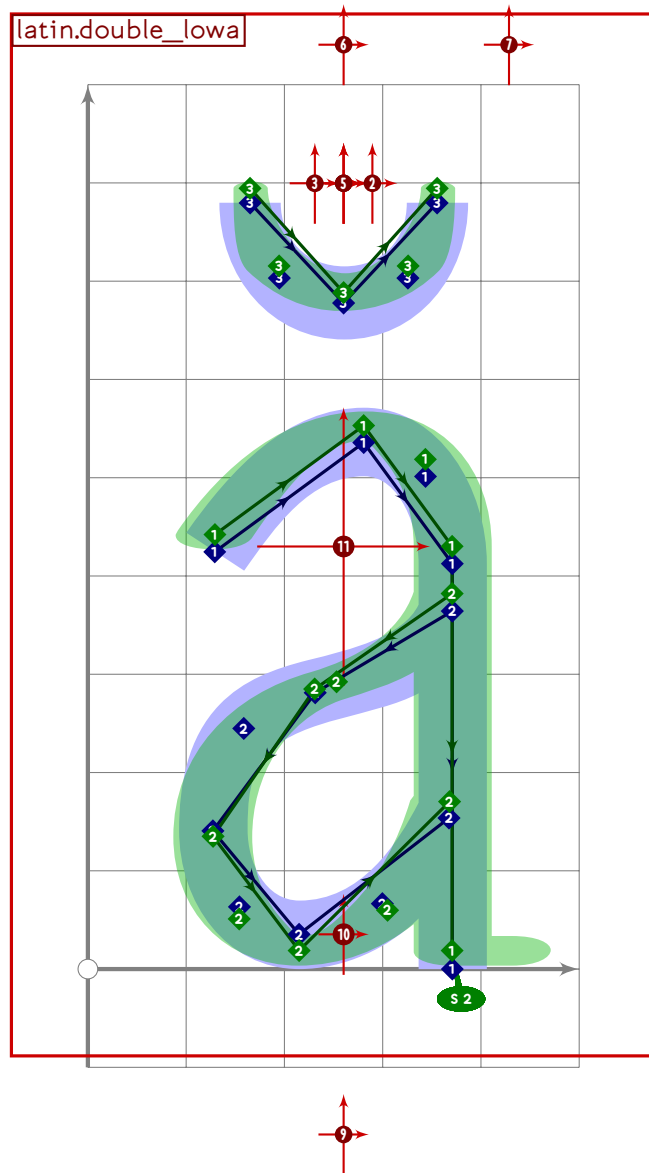
01



```

431 % a with macron
432 begintsuglyph("amacron",1);
433   tsu_accent.apply(latin.low_a)(tsu_accent.macron);
434   tsu_render;
435 endsuglyph;
436

```



```

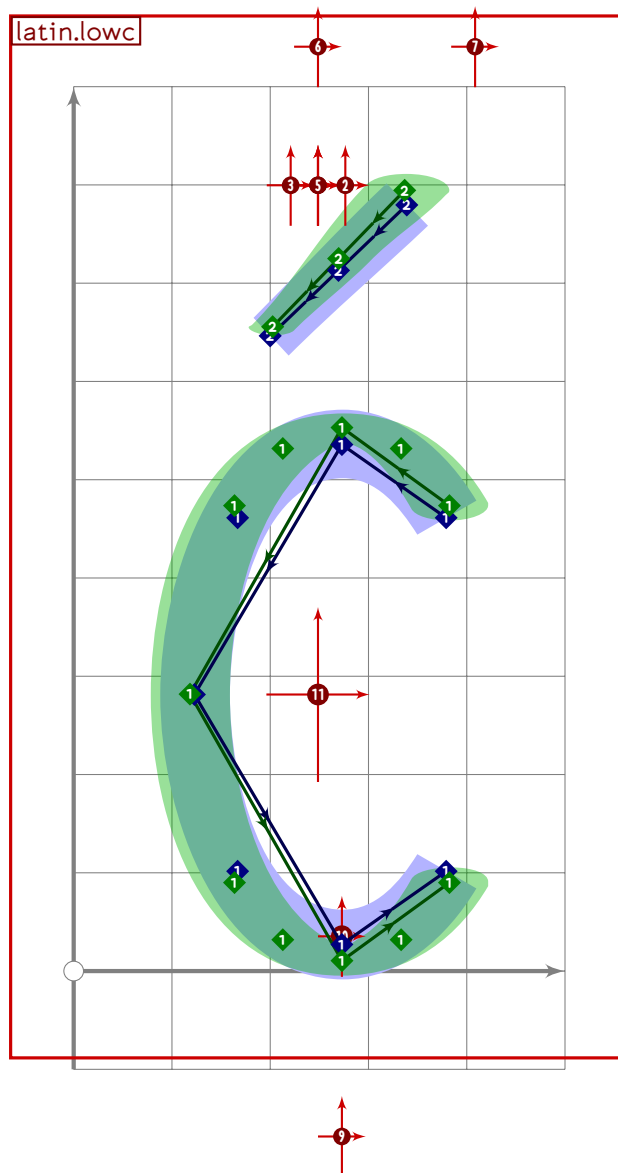
437 % a with breve
438 begintsuglyph("abreve",3);
439   tsu_accent.apply(latin.low_a)(tsu_accent.breve);
440   tsu_render;
441 endtsuglyph;
442
443 % a with ogonek
444 begintsuglyph("aogonek",5);
445   latin.low_aogonek;
446   tsu_render;
447 endtsuglyph;
448

```

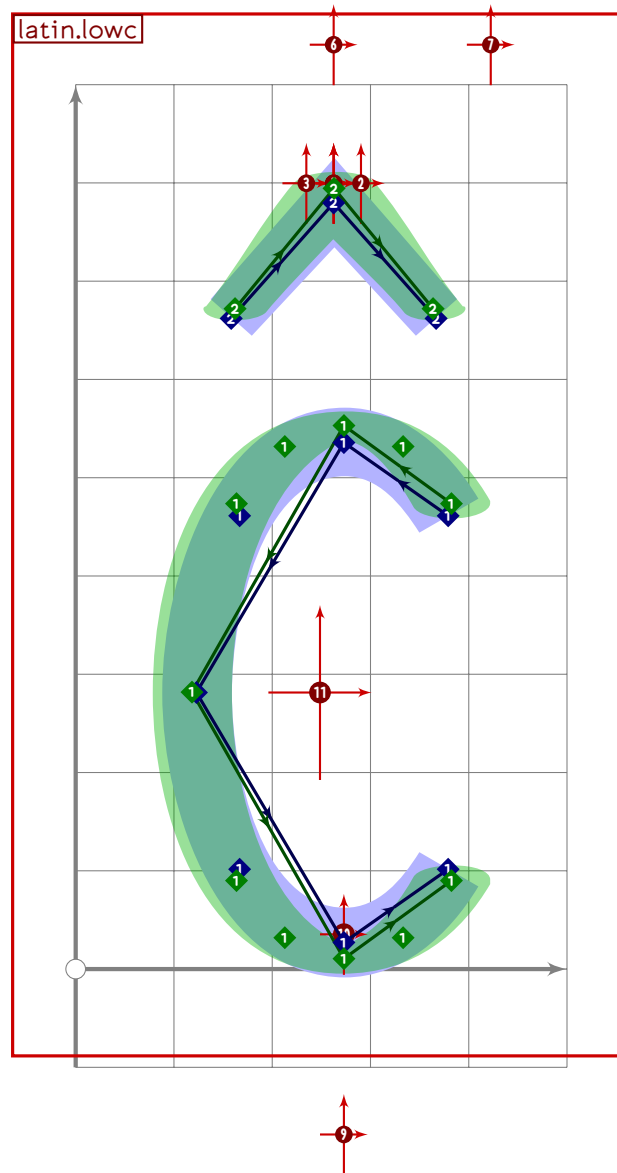
[see page 364]

U+0107
tsuku.cacute

01



```
449 % c with acute
450 begint Suglyph('cacute';7);
451   tsu_accent.apply(latin.lowc)(tsu_accent.acute);
452   tsu_render;
453 endtsuglyph;
454
```



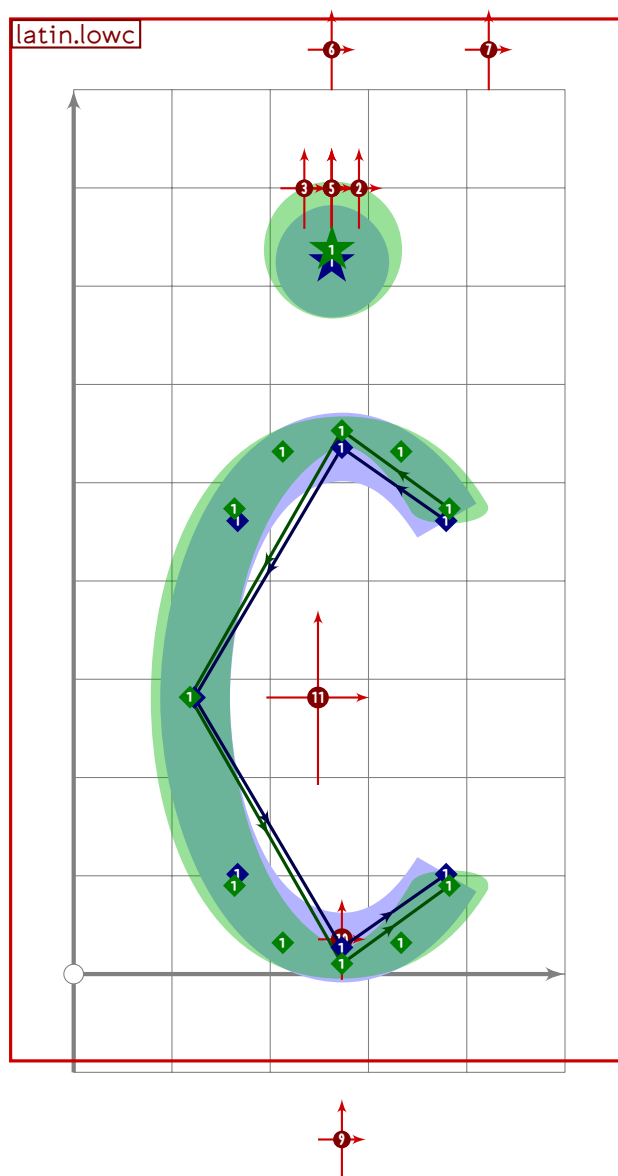
```

455 % c with circumflex
456 begint Suglyph('ccircumflex';9);
457   tsu_accent.apply(latin.lowc)(tsu_accent.circumflex);
458   tsu_render;
459 endtsuglyph;
460

```

U+010B
tsuku.cdotaaccent

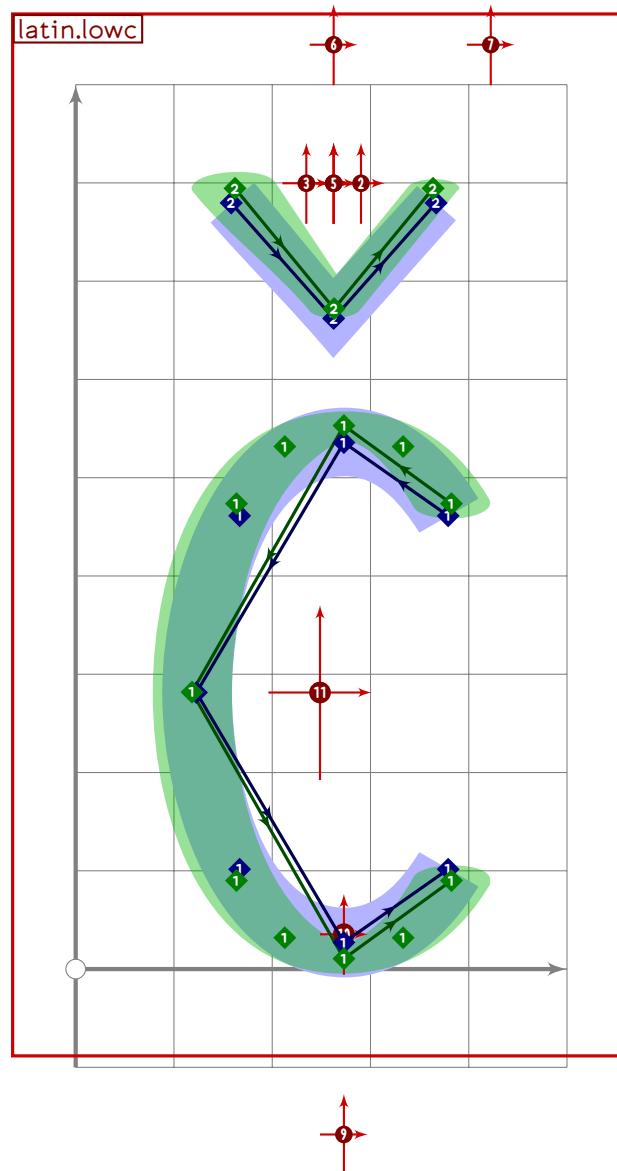
01



```

461 % c with dot above
462 begintsuglyph("cdotaaccent";11);
463   tsu_accent.apply(latin.lowc)(tsu_accent.dotabove);
464   tsu_render;
465 endtsuglyph;
466

```

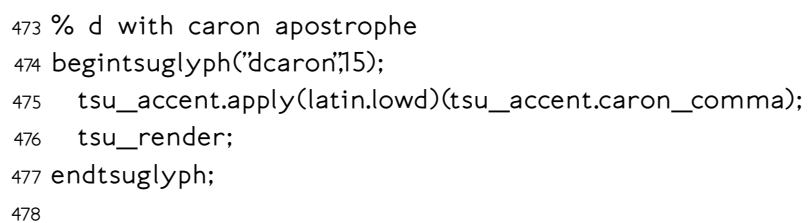


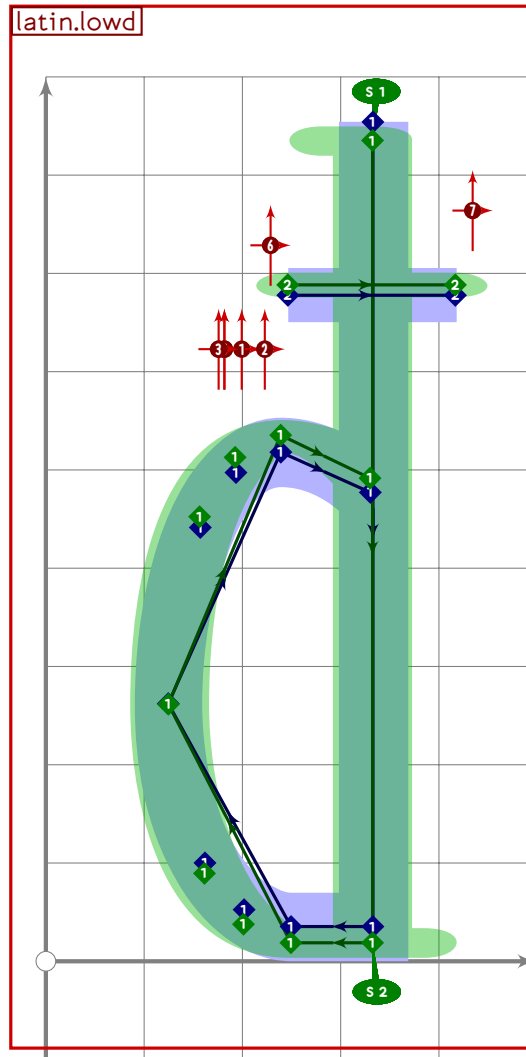
```

467 % c with caron
468 begint Suglyph("ccaron",13);
469   tsu_accent.apply(latin.lowc)(tsu_accent.caron);
470   tsu_render;
471 endtsuglyph;
472

```


01





01

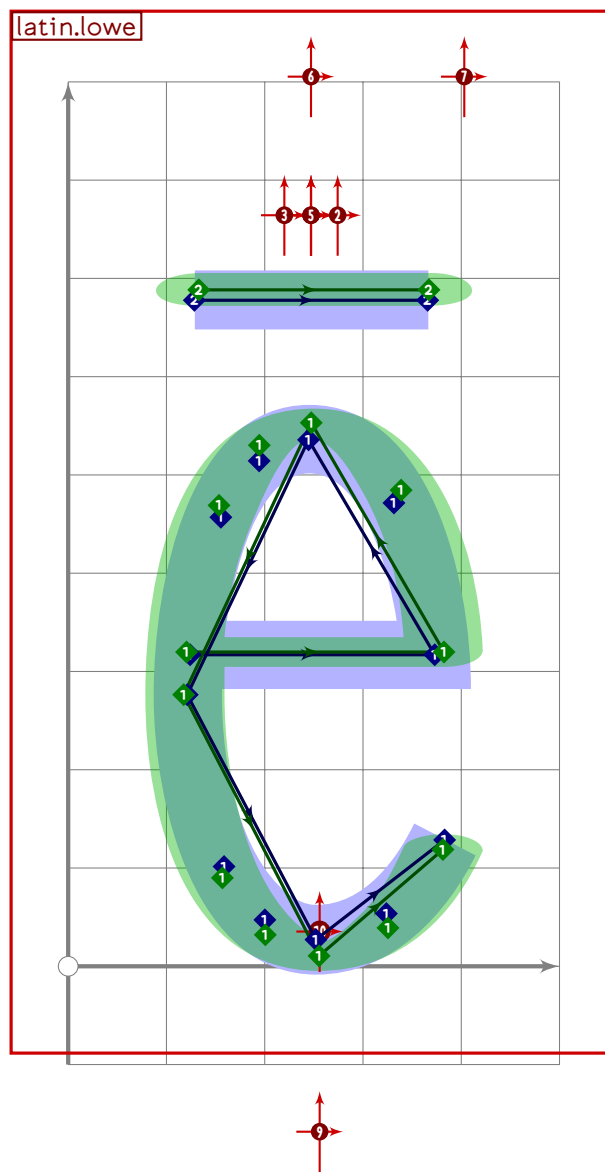
```

479 % d with bar
480 begintsuglyph("dcroat",17);
481 latin.lowd;
482 push_stroke((530,vmetric(0.82))-(820,vmetric(0.82)),
483   (1.6,1.6)-(1.6,1.6));
484 set_bosize(0,80);
485 tsu_render;
486 endtsuglyph;
487

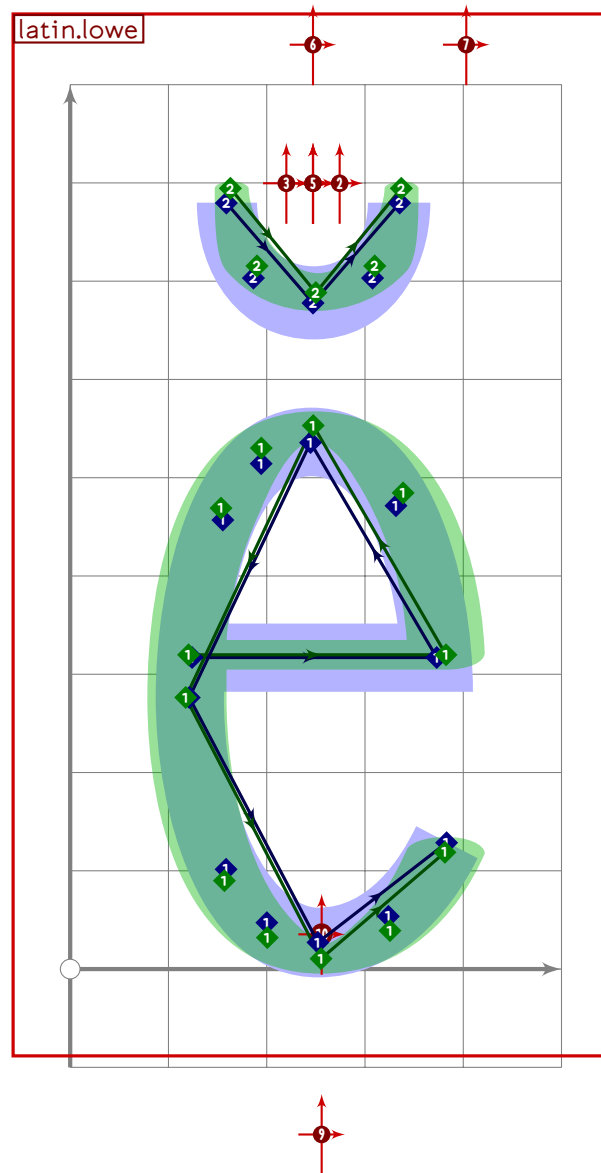
```

U+0113
tsuku.Emacron

01



```
488 % e with macron
489 begintsuglyph("emacron";19);
490 tsu_accent.apply(latin.love)(tsu_accent.macron);
491 tsu_render;
492 endtsuglyph;
493
```

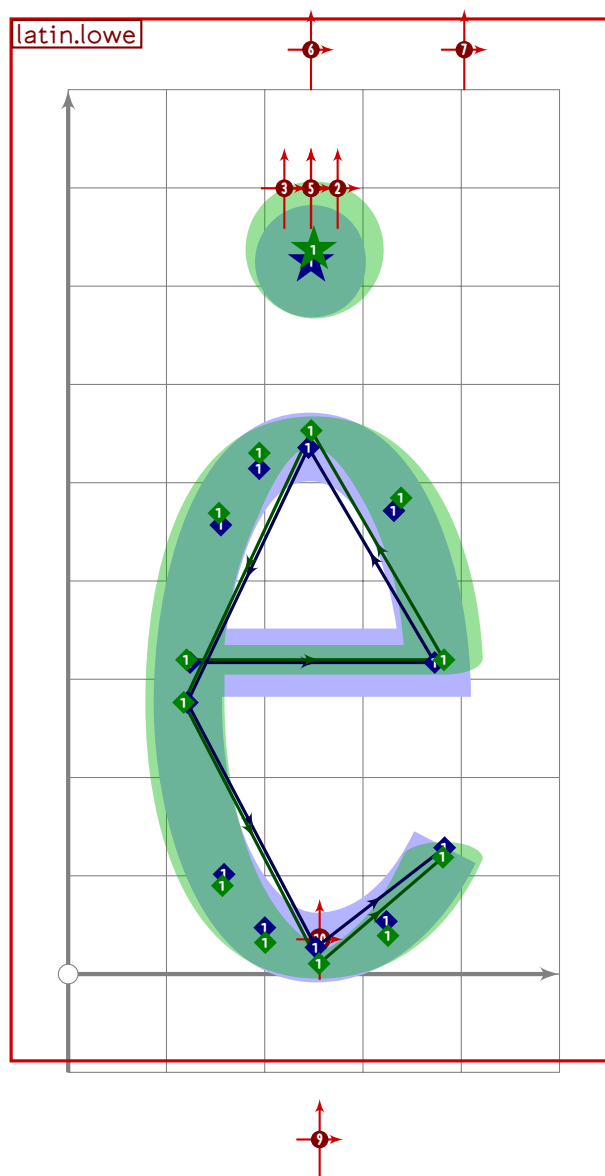


01

```

494 % e with breve
495 begint Suglyph("ebreve";21);
496   tsu_accent.apply(latin.love)(tsu_accent.breve);
497   tsu_render;
498 endtsuglyph;
499

```

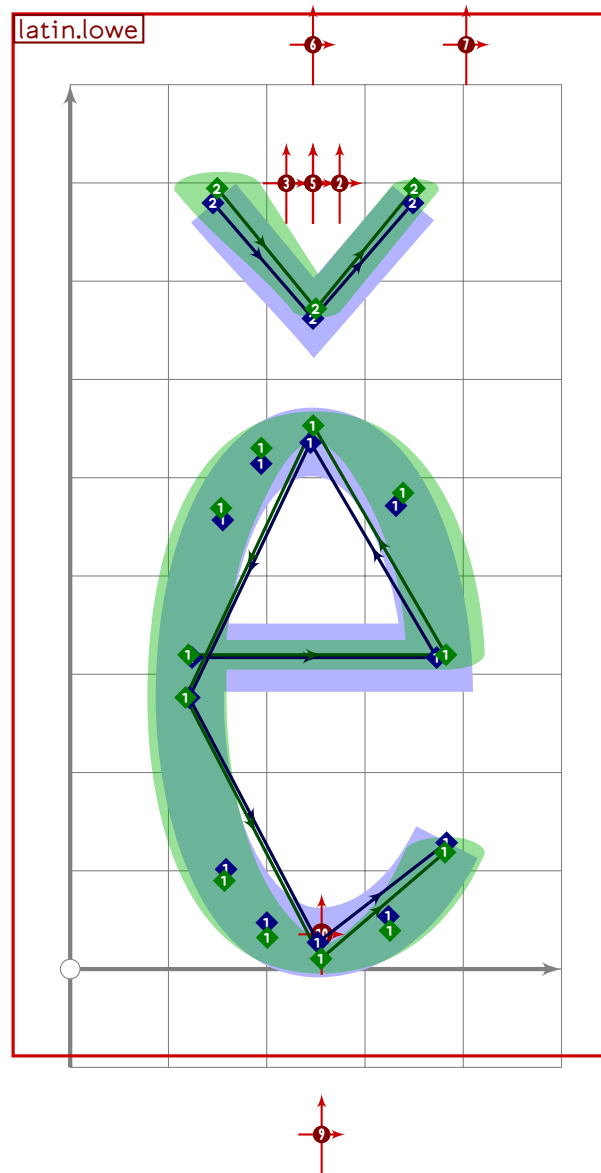


```

500 % e with dot
501 begintsuglyph("edotaccent";23);
502   tsu_accent.apply(latin.lowe)(tsu_accent.dotabove);
503   tsu_render;
504 endtsuglyph;
505
506 % e with ogonek
507 begintsuglyph("eogonek";25);
508   latin.loweogonek;
509   tsu_render;
510 endtsuglyph;
511

```

[see page 365]



01

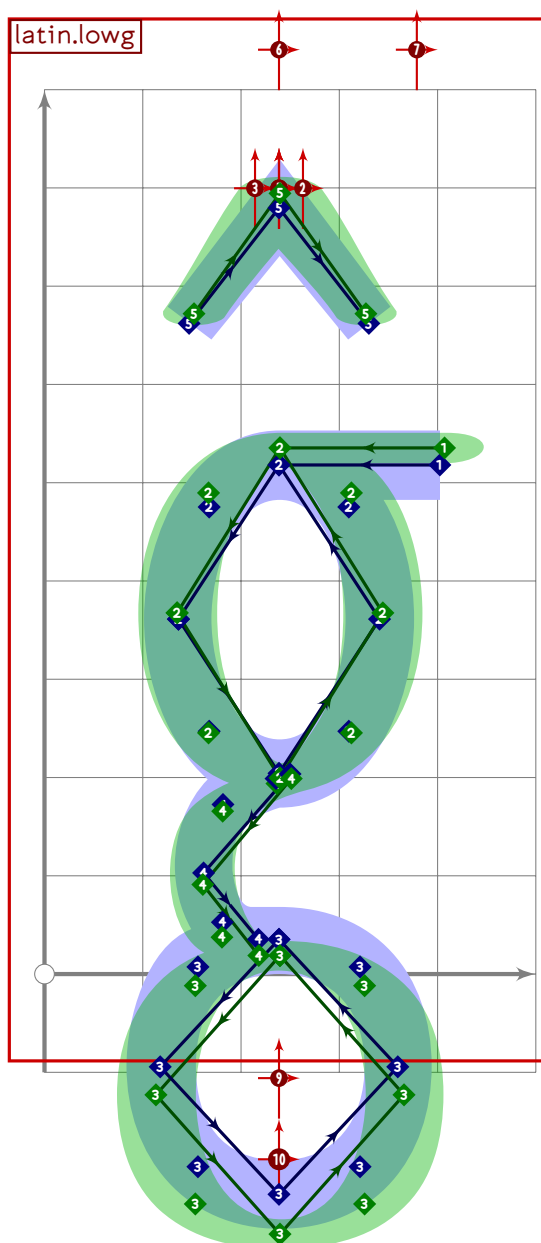
```

512 % e with caron
513 begintzuglyph("ecaron";27);
514   tsu_accent.apply(latin.love)(tsu_accent.caron);
515   tsu_render;
516 endtsuglyph;
517

```

U+011D
tsuku.gcircumflex

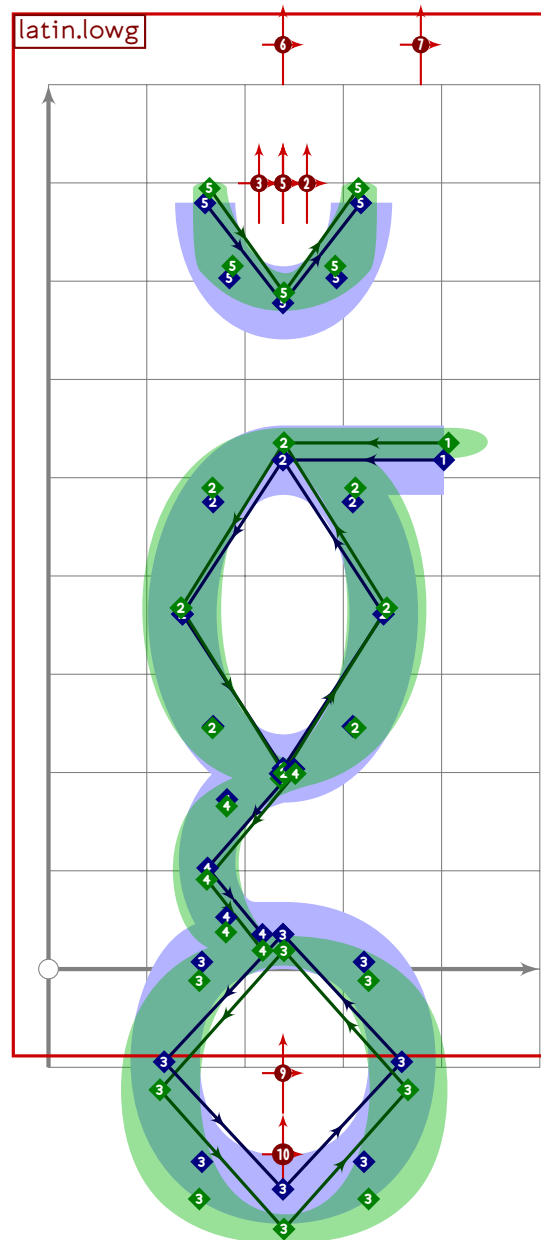
01



```

518 % g with circumflex
519 begint Suglyph("gcircumflex";29);
520   tsu_accent.apply(latin.lowg)(tsu_accent.circumflex);
521   tsu_render;
522 endtsuglyph;
523

```



01

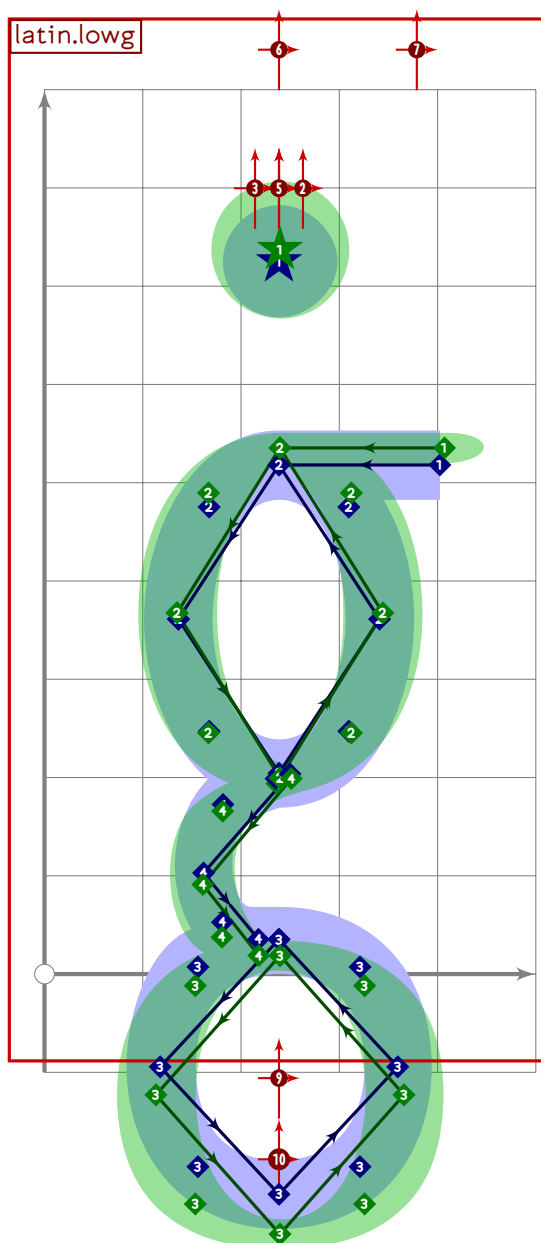
```

524 % g with breve
525 begint Suglyph("gbreve";31);
526   tsu_accent.apply(latin.lowg)(tsu_accent.breve);
527   tsu_render;
528 endtsuglyph;
529

```


U+0121
tsuku.gdotaccent

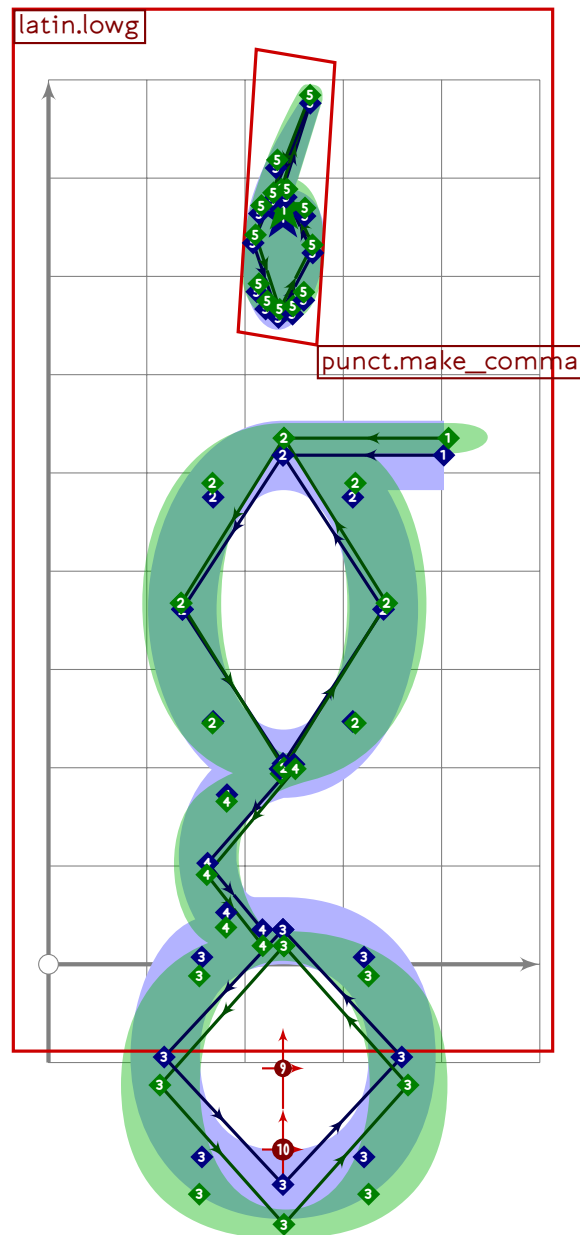
01



```

530 % g with dot
531 begintsuglyph("gdotaccent";33);
532   tsu_accent.apply(latin.lowg)(tsu_accent.dotabove);
533   tsu_render;
534 endtsuglyph;
535

```



01

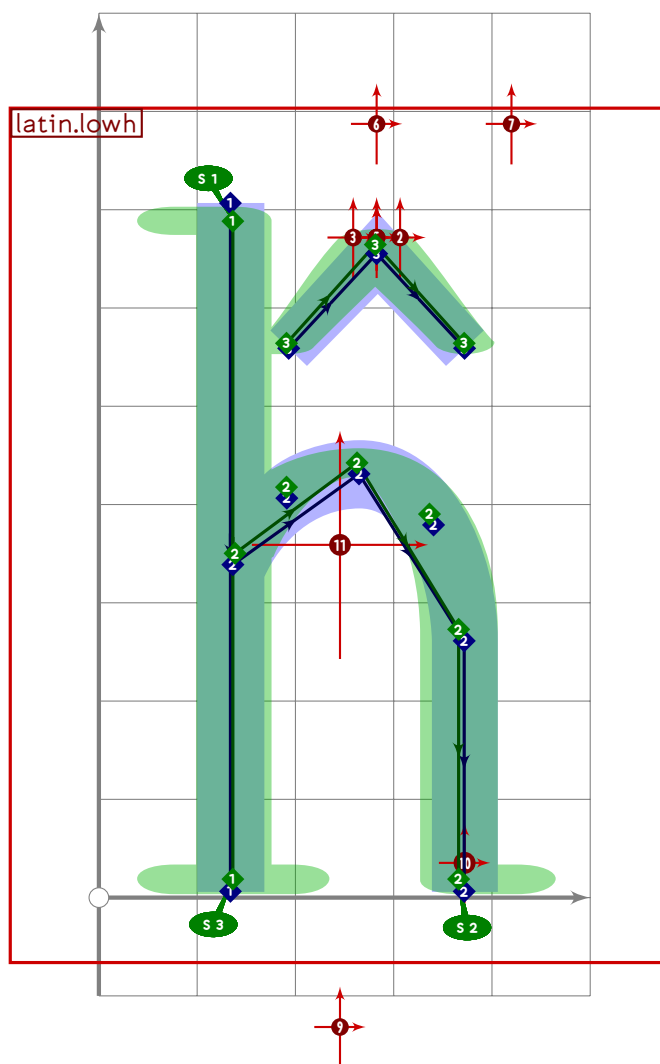
```

536 % g with comma upside-down above
537 begint Suglyph("uni0123";35);
538   tsu_accent.apply(latin.lowg)(tsu_accent.caron_comma);
539   tsu_render;
540 endtsuglyph;
541

```

U+0125
tsuku.hcircumflex

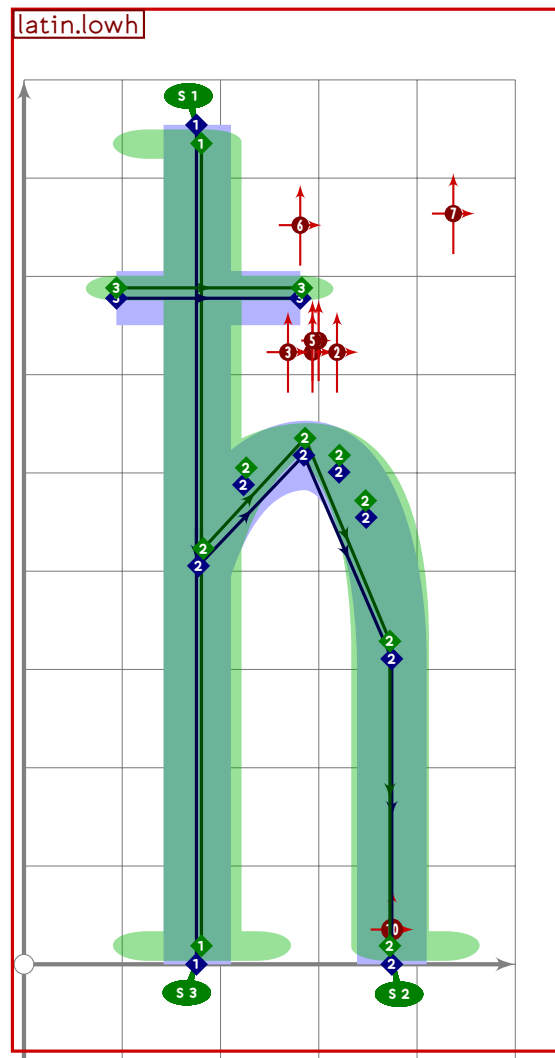
01



```

542 % h with circumflex
543 begintsuglyph("hcircumflex";37);
544   tsu_accent.apply(tsu_accent.capital(latin.lowh))(tsu_accent.circumflex);
545   tsu_render;
546 endtsuglyph;
547

```



01

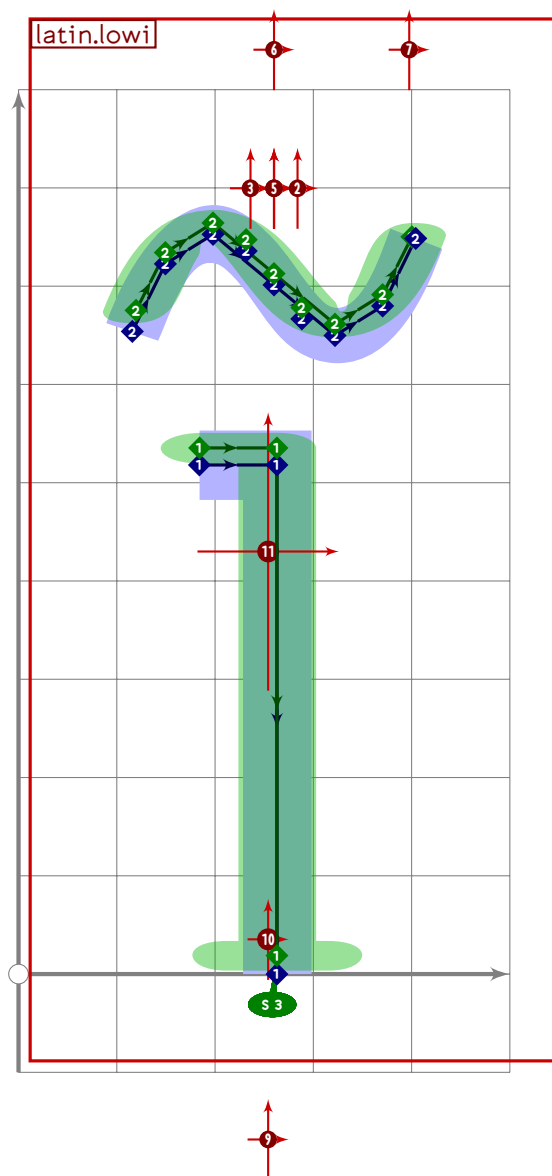
```

548 % h with bar
549 begint Suglyph("hbar";39);
550 latin.lowh;
551 push_stroke((220,ymetric(0.82))-(520,ymetric(0.82)),
552   (1.6,1.6)-(1.6,1.6));
553 set_bosize(0,80);
554 tsu_render;
555 endtsuglyph;
556

```

U+0129
tsuku.ĩtilde

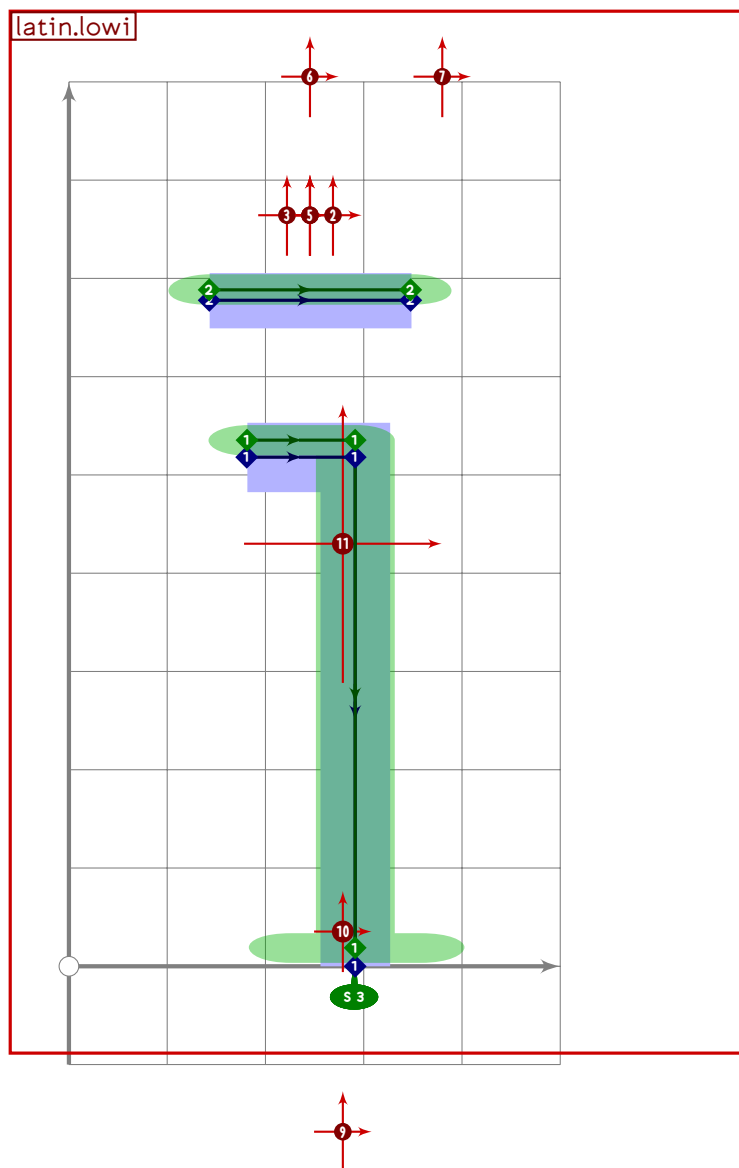
01



```

557 % i with tilde
558 begintsuglyph("ĩtilde"41);
559   tsu_accent.apply(
560     tsu_xform(identity shifted (70,0))(latin. lowi;
561       tsu_accent.shift_anchors(true)((0,0)));
562     pop_lcblob;
563   )(tsu_accent.tilde);
564   tsu_render;
565 endtsuglyph;
566

```



01

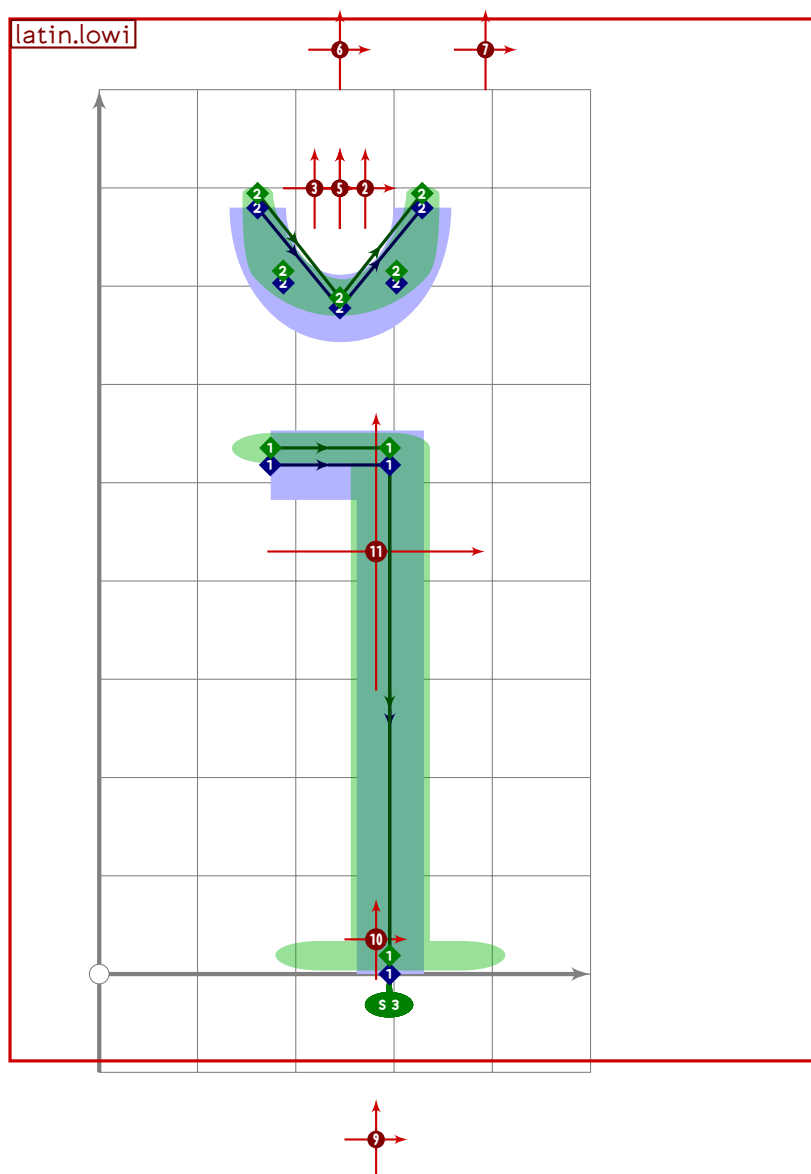
```

567 % i with macron
568 begintsuglyph("imacron";43);
569   tsu_accent.apply(
570     tsu_xform(identity shifted (70,0))(latin.lowi;
571       tsu_accent.shift_anchors(true)((0,0)));
572     pop_lcblob;
573   )(tsu_accent.macron);
574   tsu_render;
575 endtsuglyph;
576

```

U+012D
tsuku.ibreve

01

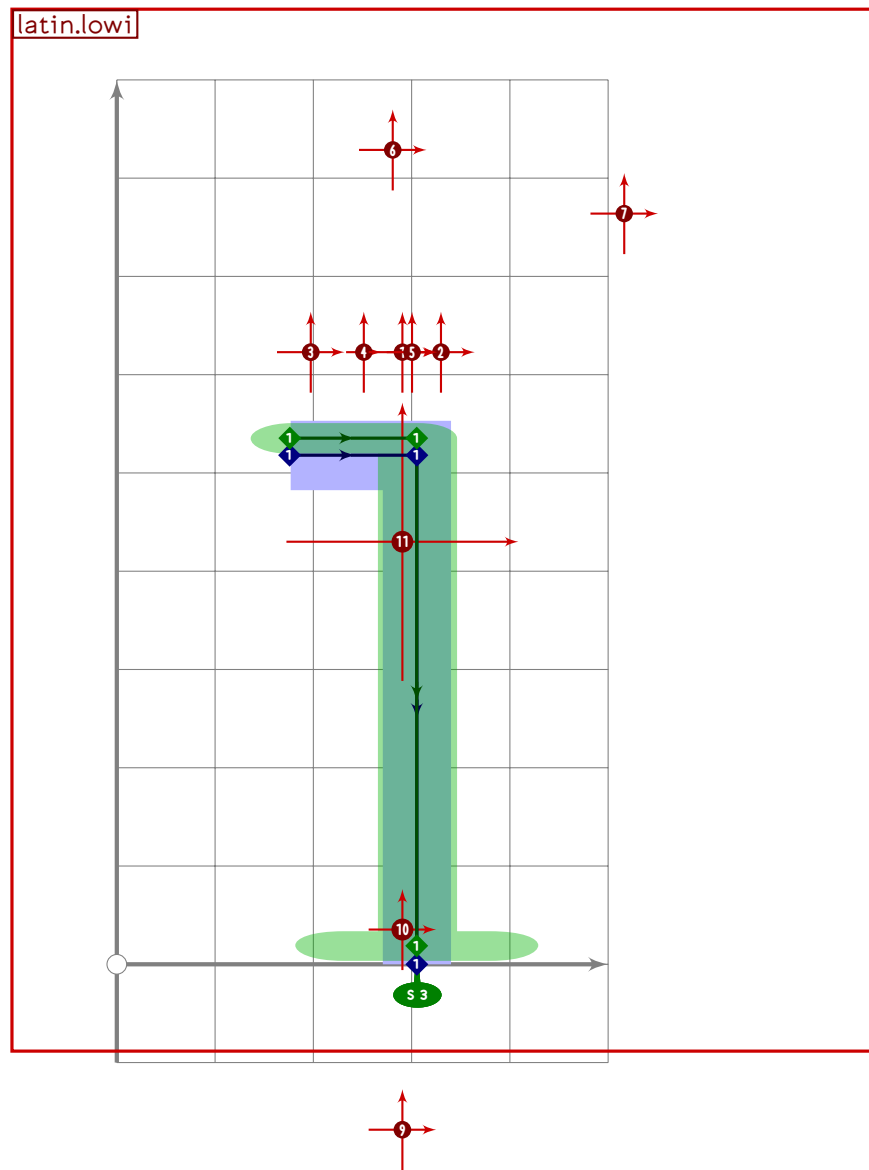


```

577 % i with breve
578 beginsuglyph("ibreve";45);
579   tsu_accent.apply(
580     tsu_xform(identity shifted (70,0))(latin.lowi;
581       tsu_accent.shift_anchors(true)((0,0)));
582     pop_lcblob;
583   )(tsu_accent.breve);
584   tsu_render;
585 endsuglyph;
586
587 % i with ogonek
588 beginsuglyph("iogonek";47);
589   latin.lowiogonek;
590   tsu_render;
591 endsuglyph;
592

```

[see page 366]



01

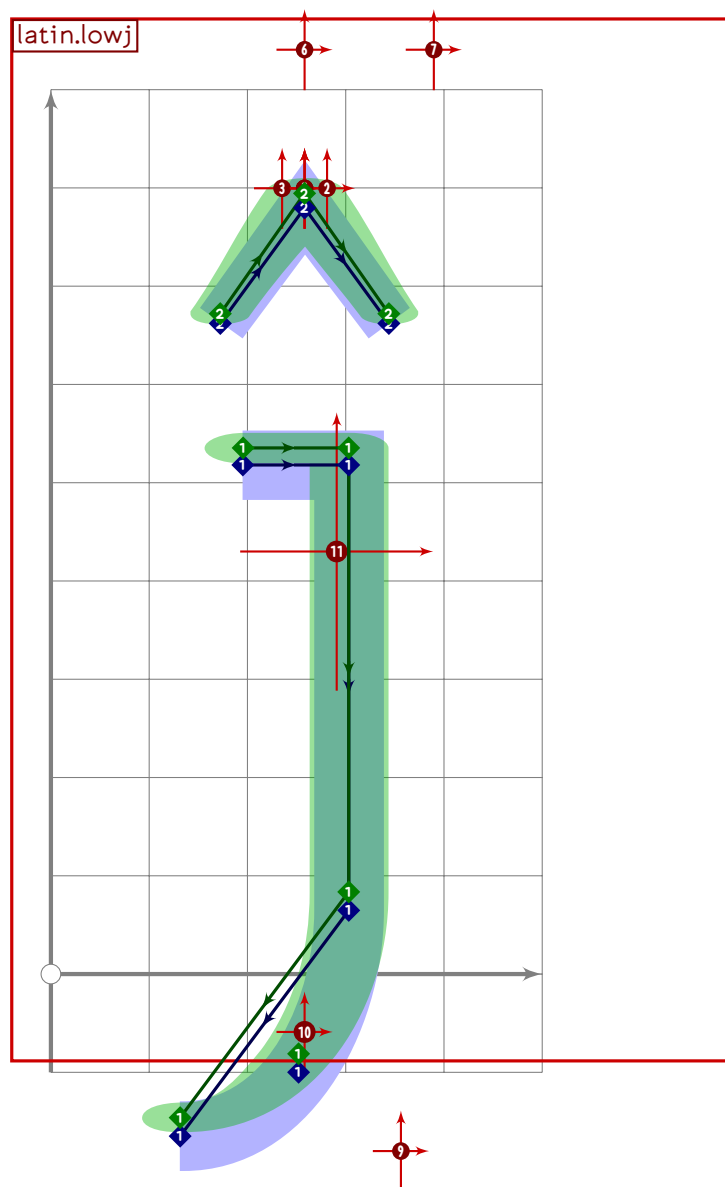
```

593 % i without dot
594 begintsuglyph("dotlessi";49);
595 tsu_xform(identity shifted (70,0))(latin.lowi;
596     tsu_accent.shift_anchors(true)((0,0)));
597 pop_lcblob;
598 tsu_render;
599 endtsuglyph;
600

```


U+0135
tsuku.jcircumflex

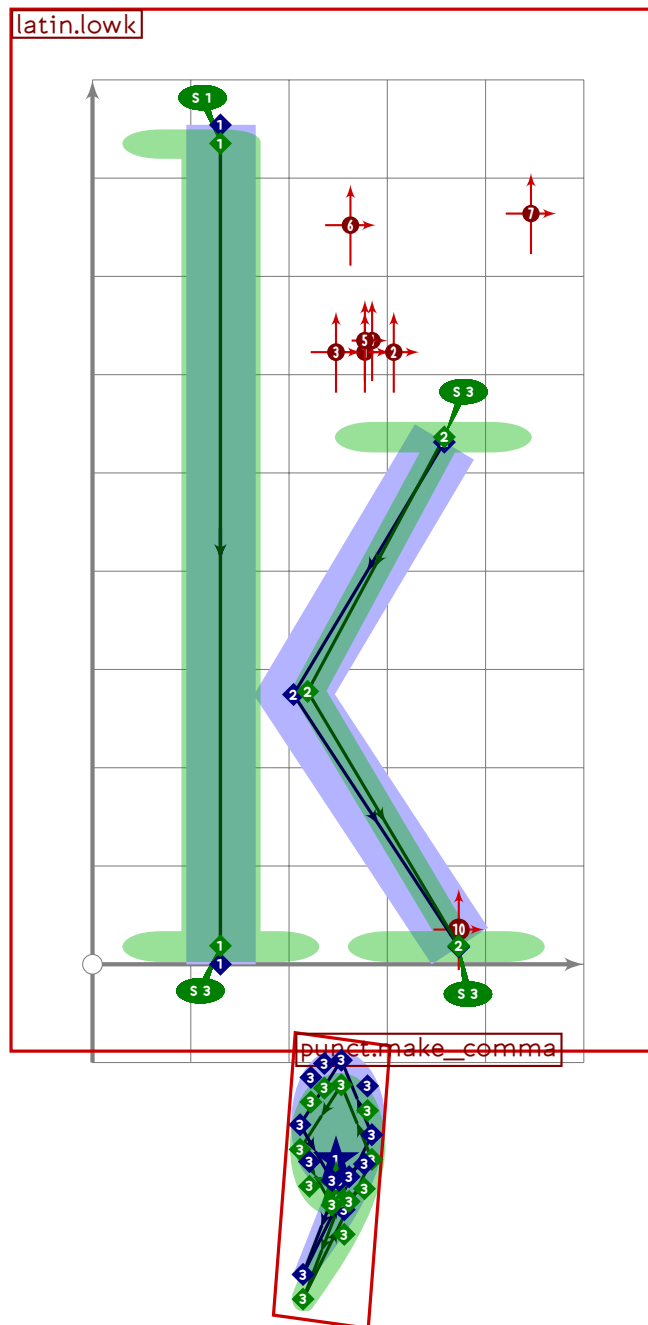
01



```

601 % j with circumflex
602 begint Suglyph("jcircumflex",53);
603   tsu_accent.apply(
604     tsu_xform(identity shifted (70,0))(latin.lowj;
605       tsu_accent.shift_anchors(true)((0,0)));
606     pop_lcblob;
607   )(tsu_accent.circumflex);
608   tsu_render;
609 endtsuglyph;
610

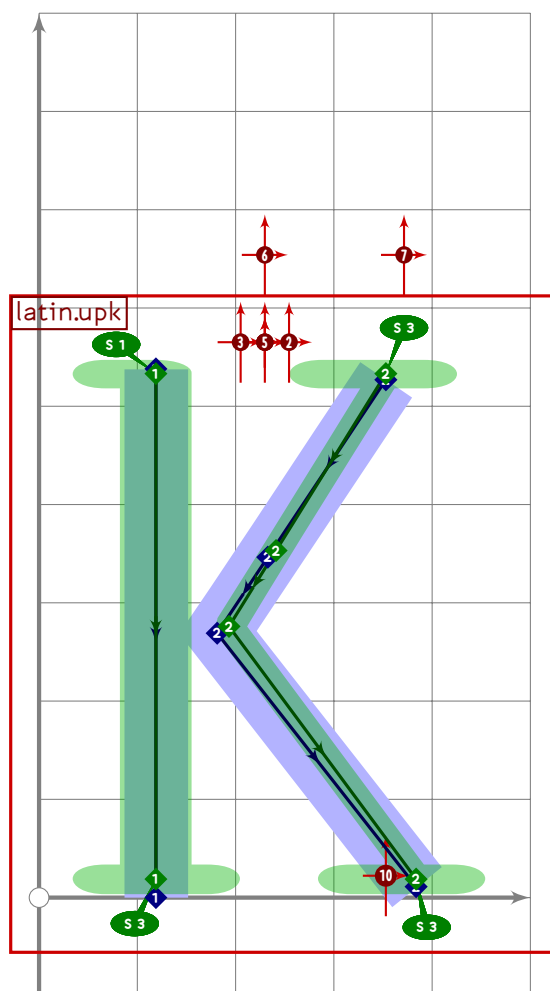
```



```

611 % k with comma below
612 begint Suglyph("uni0137";55);
613   tsu_accent.apply(latin.lowk)(tsu_accent.commabelow);
614   tsu_render;
615 endtsuglyph;
616

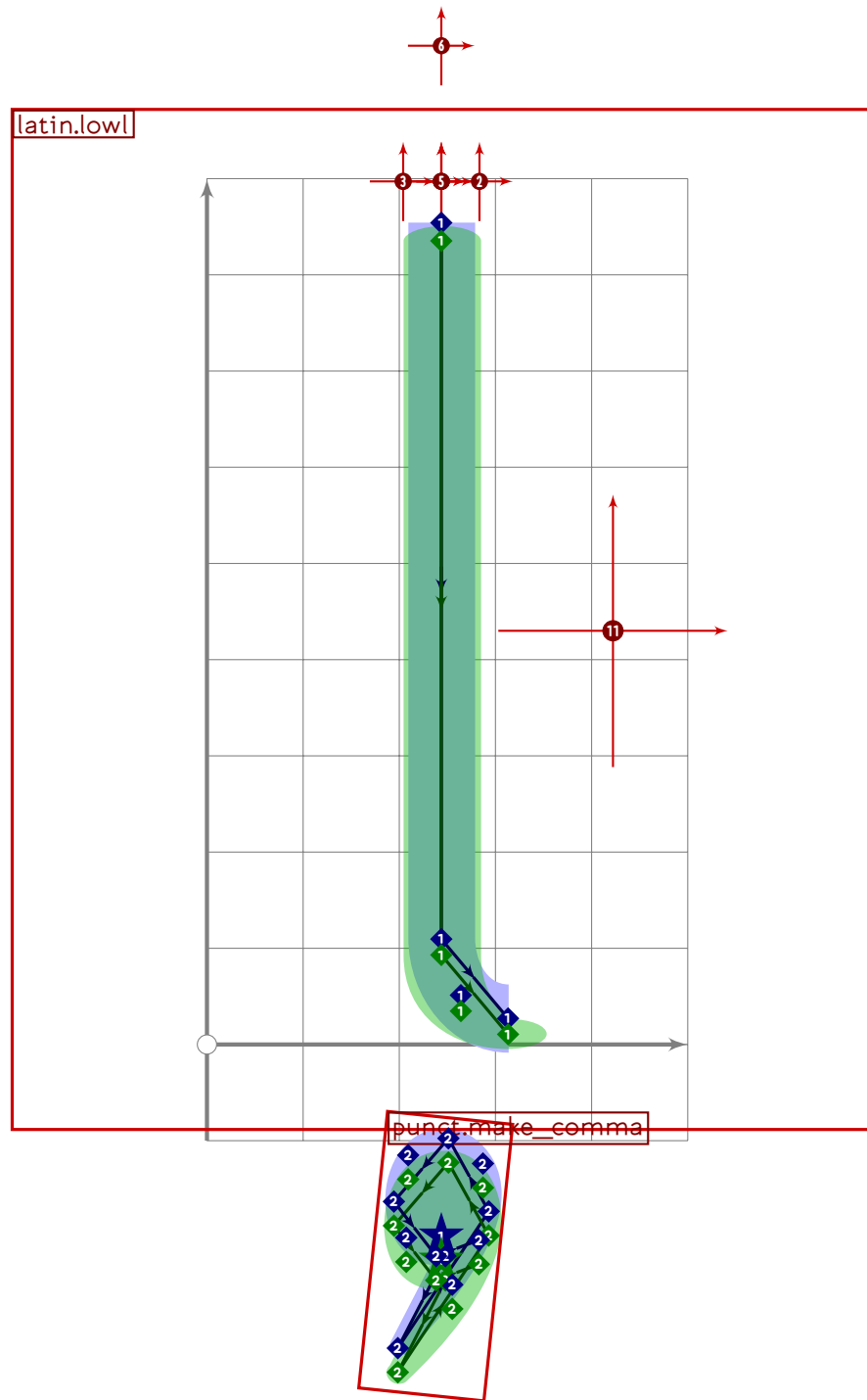
```



```

617 % Greenlandic k, which I'm interpreting as a squashed K
618 begintsuglyph("kgreenlandic";56);
619   tsu_xform(identity shifted (-500,latin_wide_low_v) xyscaled (0.92,0.63)
620     shifted (500,latin_wide_low_v))(latin.upk);
621   tsu_render;
622 endtsuglyph;
623

```



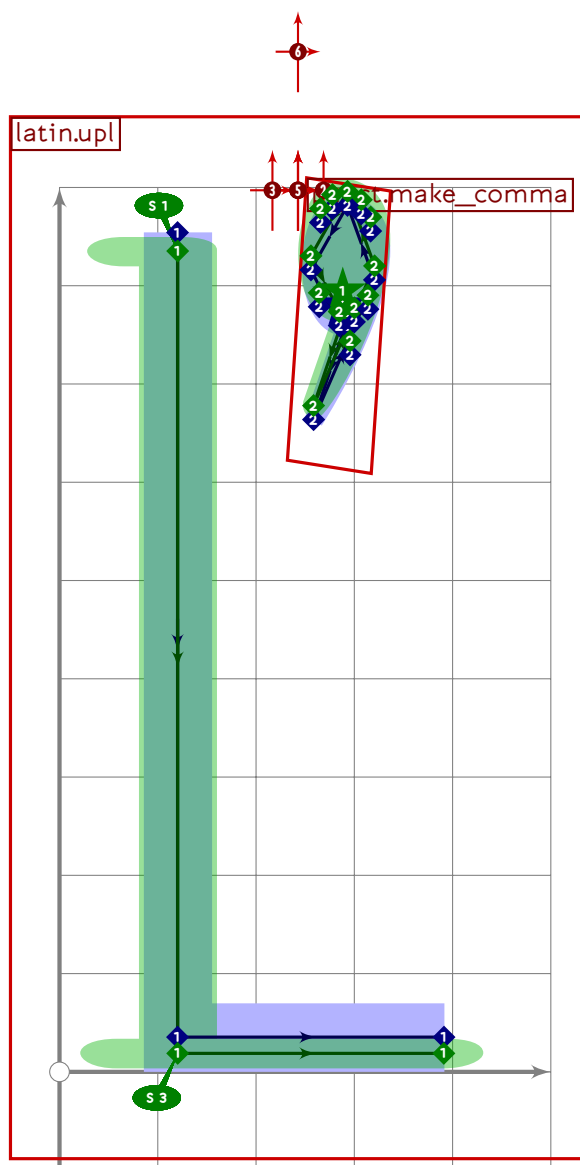
01

```

624 % l with comma below
625 beginsuglyph('uni013C',60);
626 tsu_accent.apply(latin.lowl)(tsu_accent.commabelow);
627 tsu_render;
628 endtsuglyph;
629

```

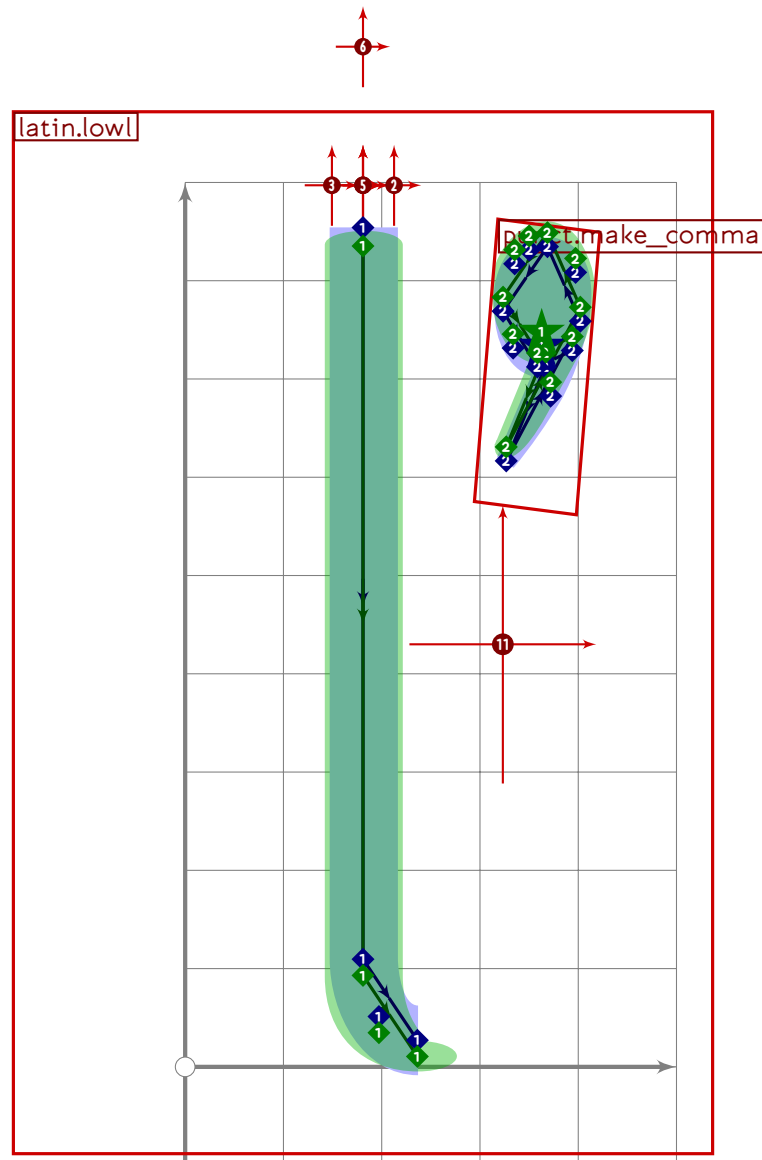
01



```

630 % L with apostrophe caron
631 begint Suglyph("Lcaron",61);
632   tsu_accent.apply(latin.upl)(tsu_accent.caron_comma);
633   tsu_render;
634 endtsuglyph;
635

```

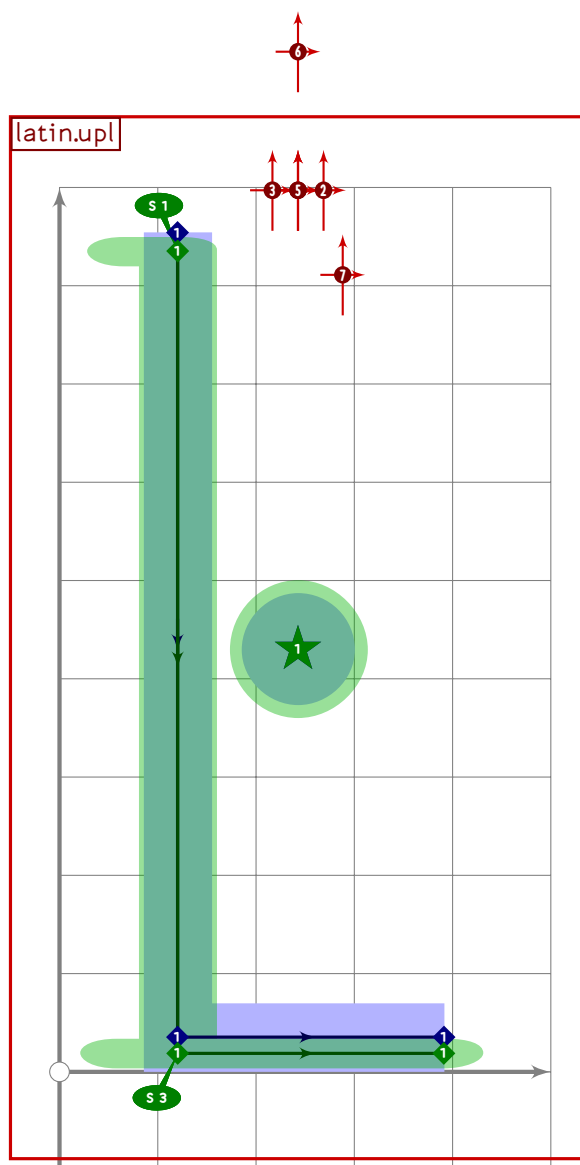


```

636 % l with apostrophe caron
637 begintsuglyph("lcaron",62);
638 tsu_accent.apply(latin.lowl)(tsu_accent.caron_comma);
639 tsu_render;
640 endtsuglyph;
641

```

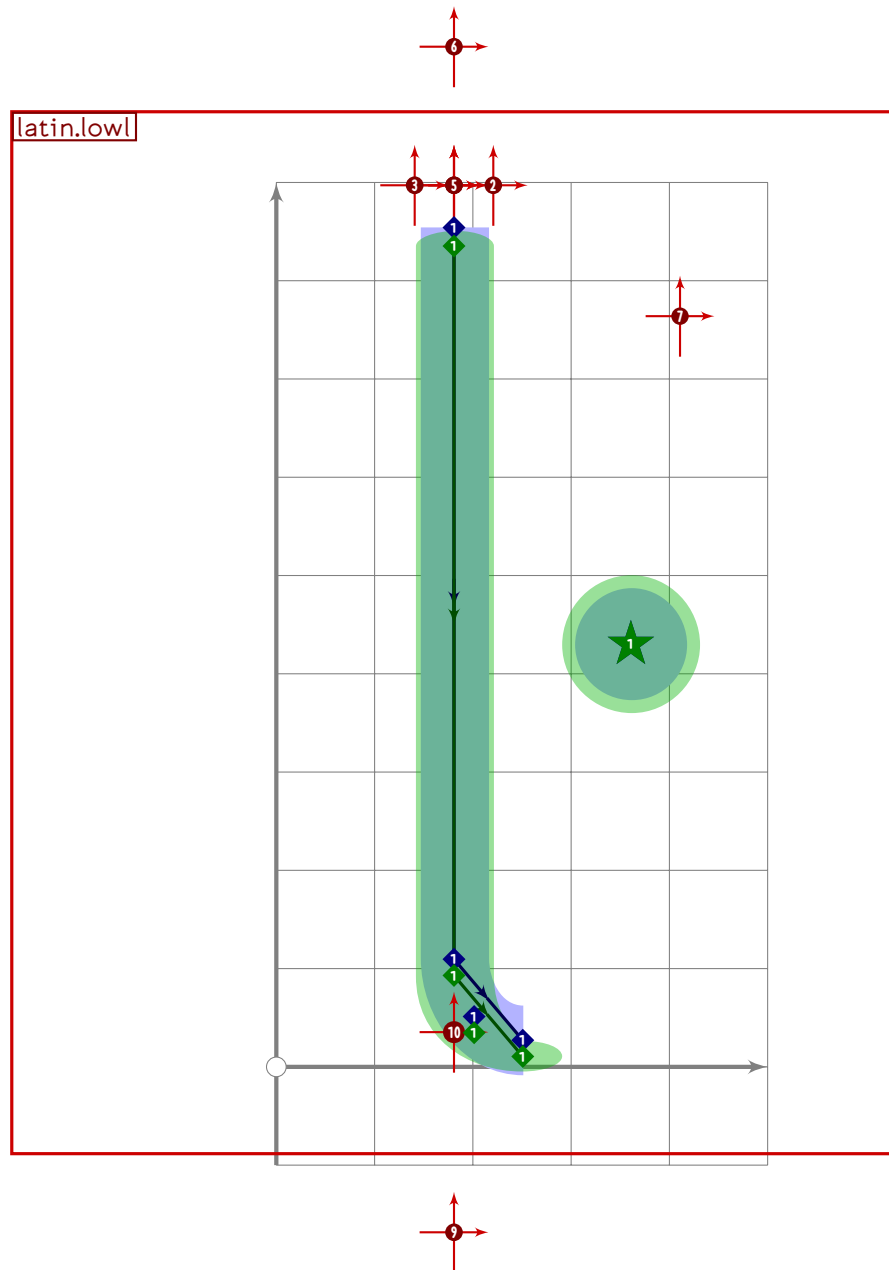
01



```

642 % L with dot
643 begint Suglyph("Ldot",63);
644   tsu_accent.apply(latin.upl)(tsu_accent.dotcentred);
645   tsu_render;
646 endtsuglyph;
647

```

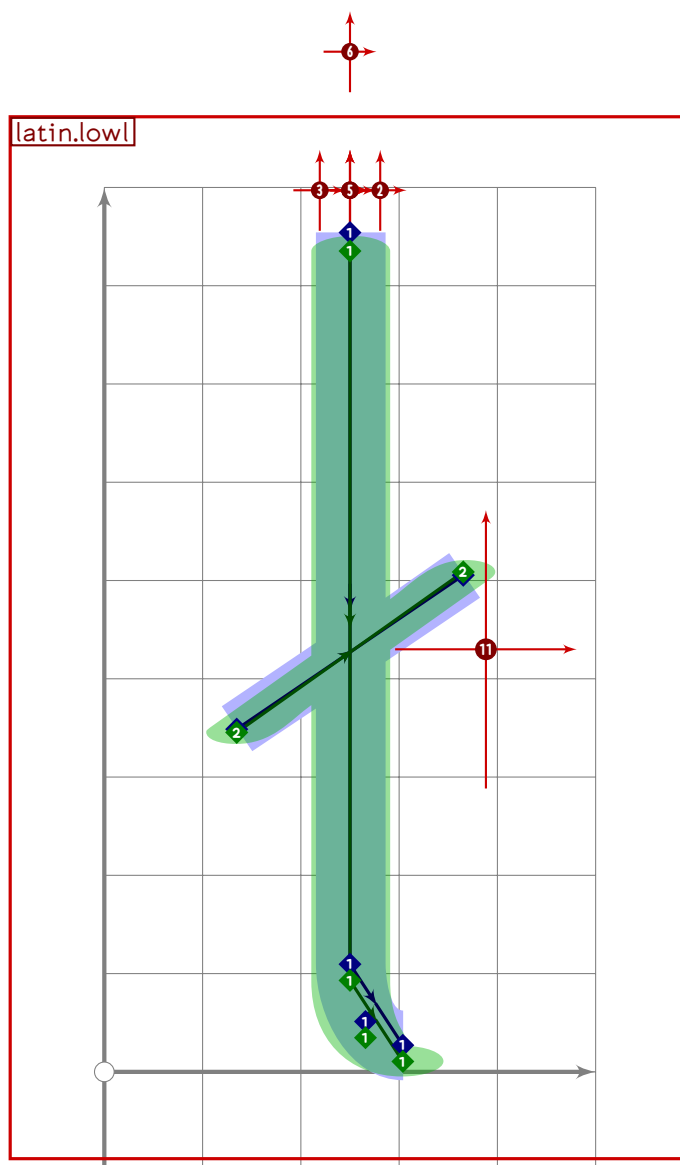


01

```

648 % l with dot
649 begintsuglyph("ldot",64);
650 tsu_accent.apply(tsu_xform(identity shifted (-120,0))
651   (latin.lowl;
652     tsu_accent.shift_anchors(true)((0,0)))(tsu_accent.dotcentred);
653 tsu_render;
654 endsuglyph;
655

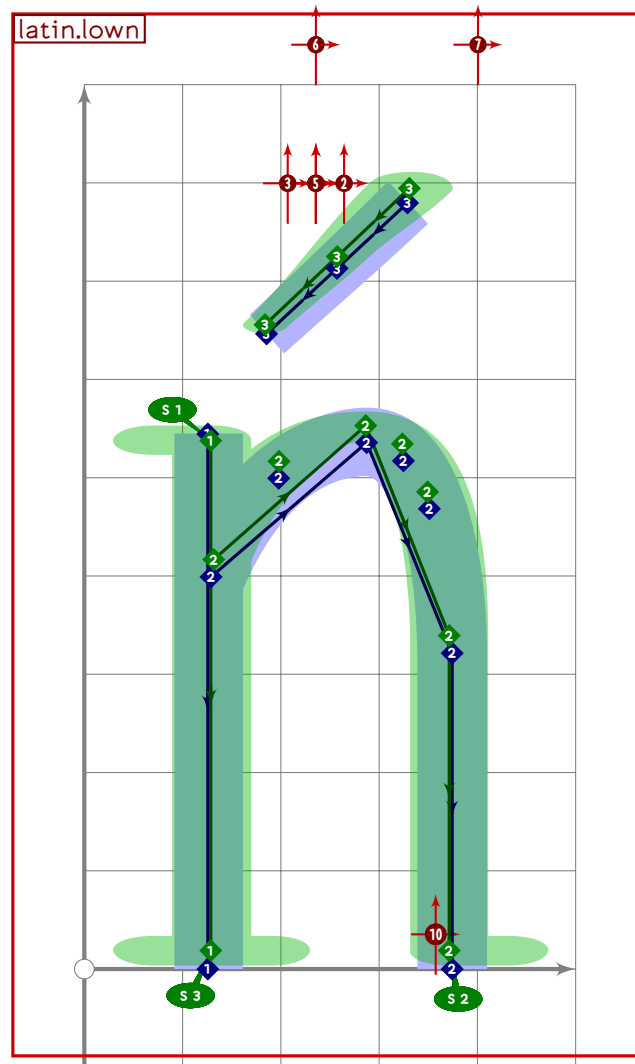
```

```

656 % l with slash
657 begintsuglyph("lslash",66);
658   latin.lowl;
659   push_stroke((350,vmetric(0.40))-(650,vmetric(0.60)),
660     (1.6,1.6)-(1.6,1.6));
661   set_bosize(0,80);
662   tsu_render;
663 endtsuglyph;
664

```



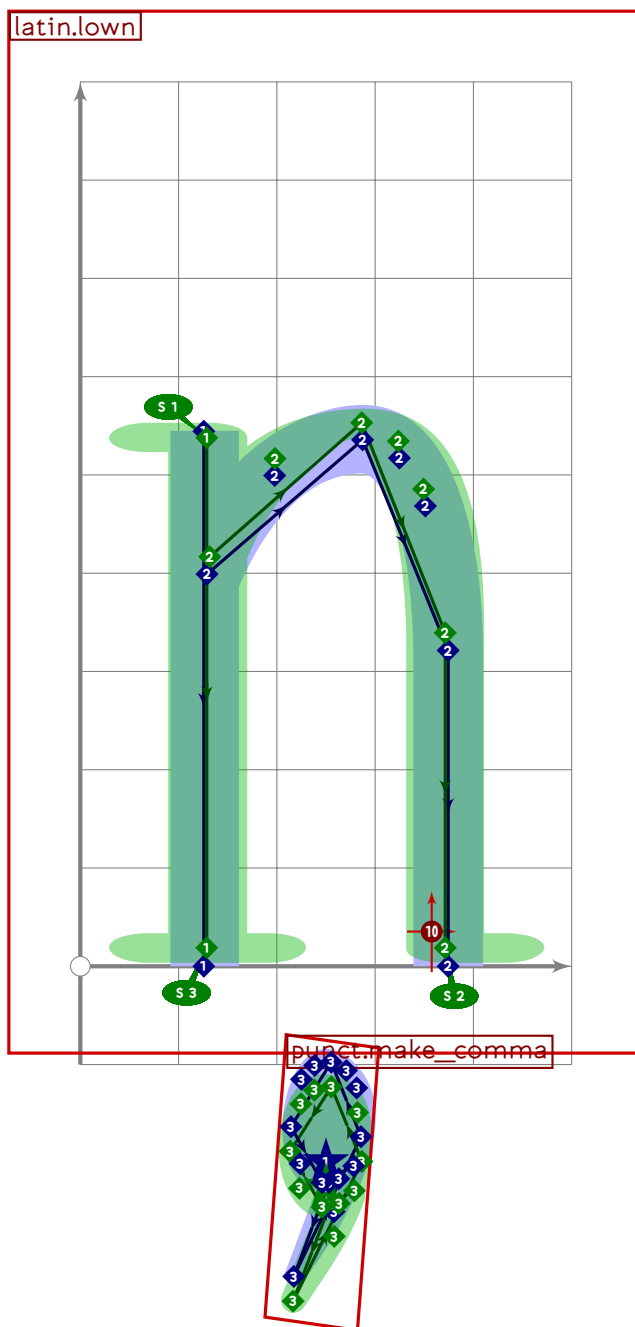
01

```

665 % n with acute
666 begintsuglyph("nacute",68);
667   tsu_accent.apply(latin.lown)(tsu_accent.acute);
668   tsu_render;
669 endsuglyph;
670

```

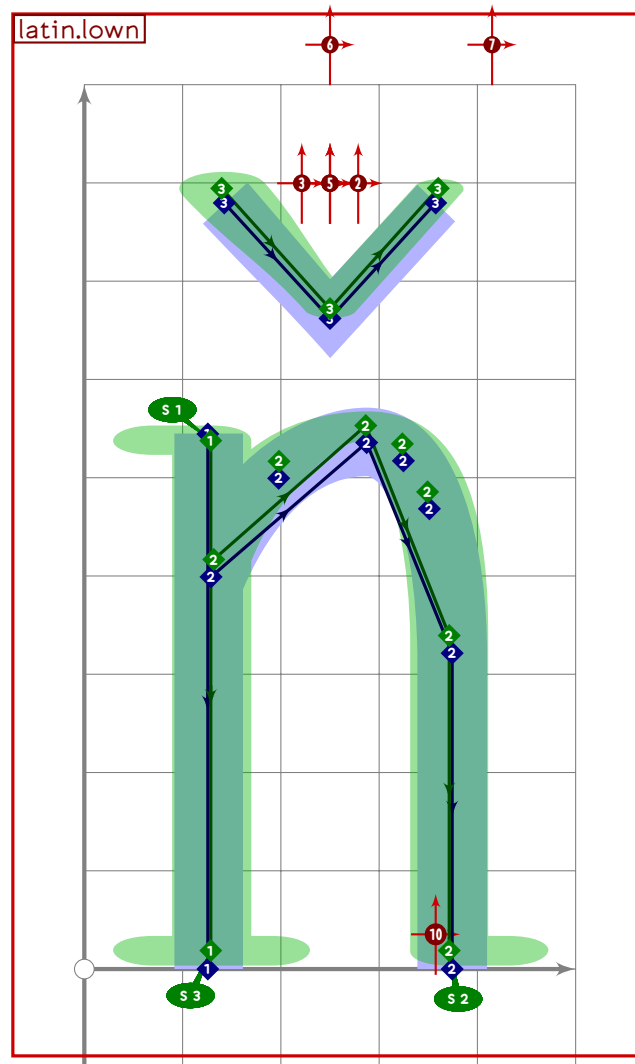
01



```

671 % n with comma below
672 begint Suglyph("uni0146";70);
673   tsu_accent.apply(latin.lown)(tsu_accent.commabelow);
674   tsu_render;
675 endtsuglyph;
676

```

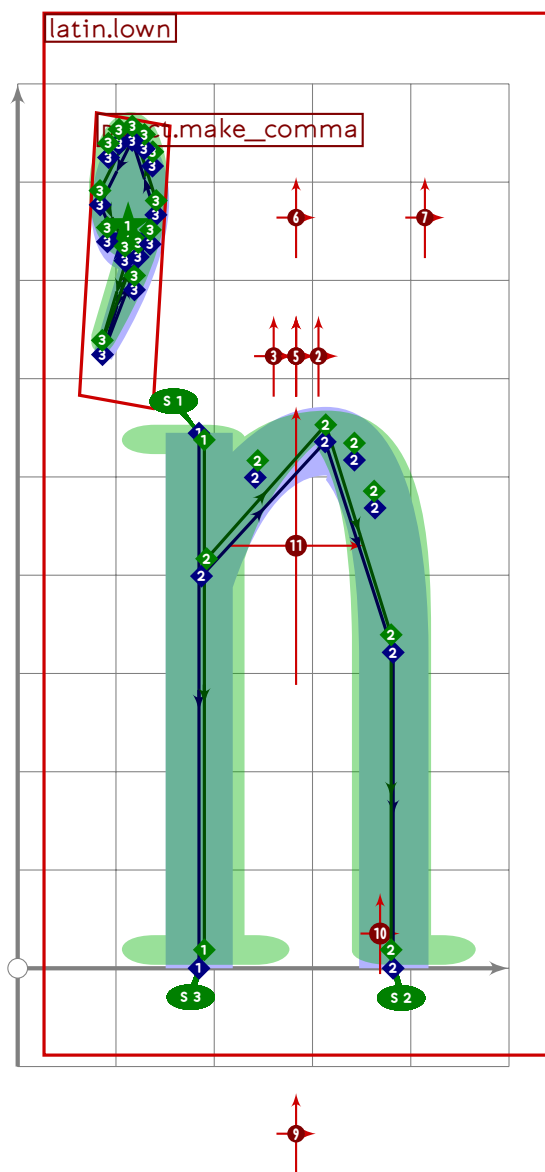


01

```

677 % n with caron
678 begintsuglyph("ncaron";72);
679 tsu_accent.apply(latin.lown)(tsu_accent.caron);
680 tsu_render;
681 endsuglyph;
682

```

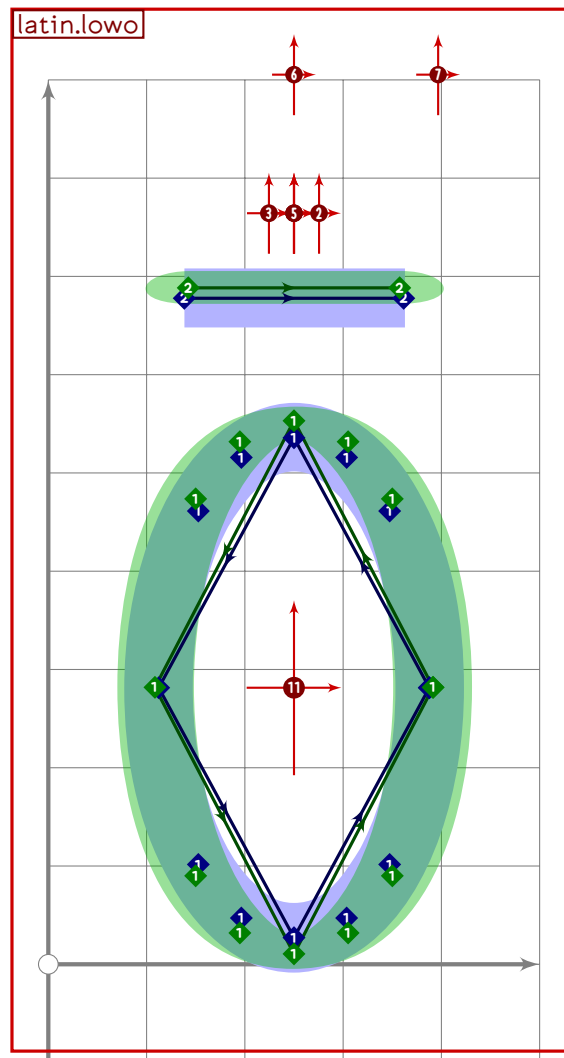


```

683 % n with apostrophe before
684 begintsuglyph("napostrophe",73);
685   tsu_xform(identity shifted (30,0))(latin.lown;
686     tsu_accent.shift_anchors(true)((0,0)));
687   punct.make_comma((230,vmetric(0.94)),0);
688   tsu_render;
689 endtsuglyph;
690
691 % lowercase eng
692 begintsuglyph("eng",75);
693   latin.loweng;
694   tsu_render;
695 endtsuglyph;
696

```

[see page 325]



01

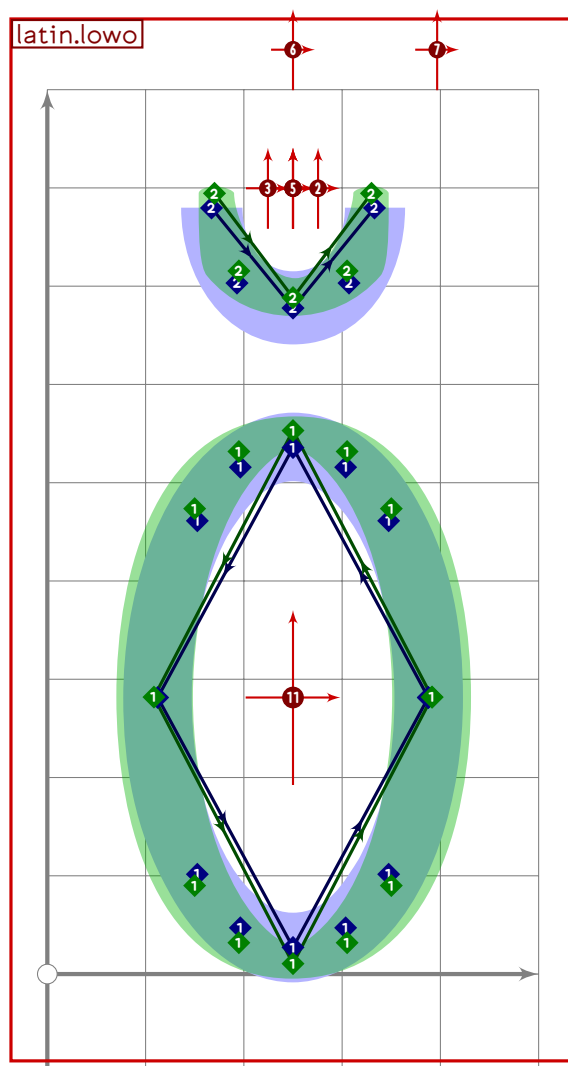
```

697 % o with macron
698 begintsuglyph('omacron',77);
699   tsu_accent.apply(latin.lowo)(tsu_accent.macron);
700   tsu_render;
701 endtsuglyph;
702

```

U+014F
tsuku.obreve

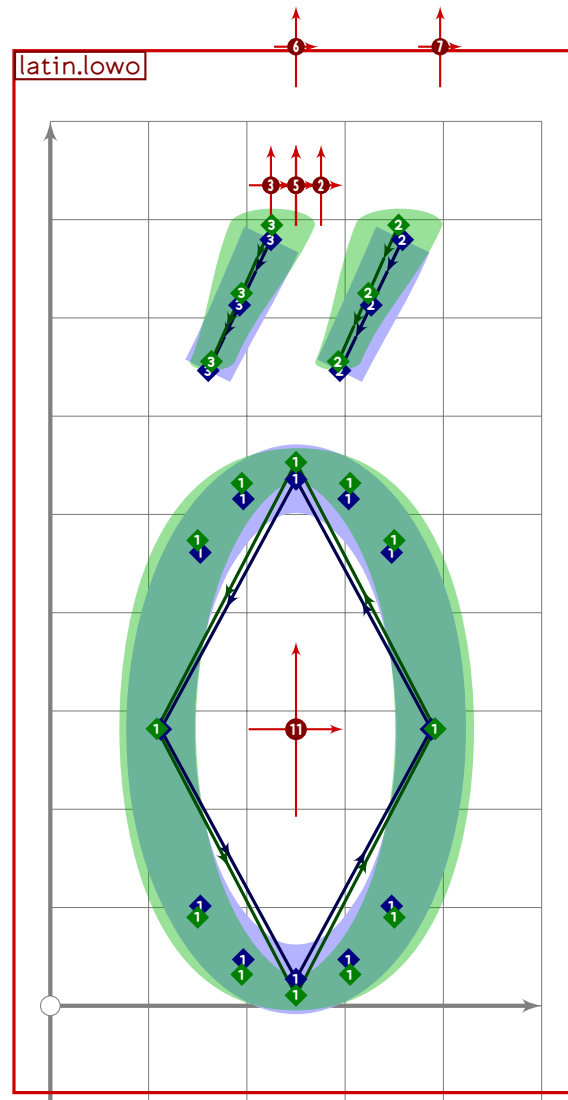
01



```

703 % o with breve
704 begint Suglyph("obreve",79);
705   tsu_accent.apply(latin.lowo)(tsu_accent.breve);
706   tsu_render;
707 endtsuglyph;
708

```



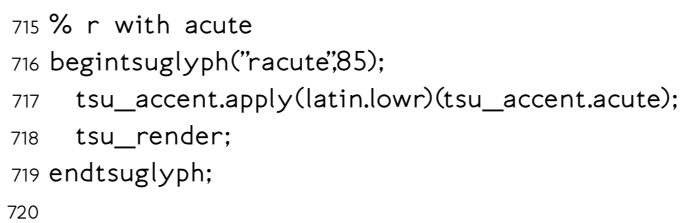
01

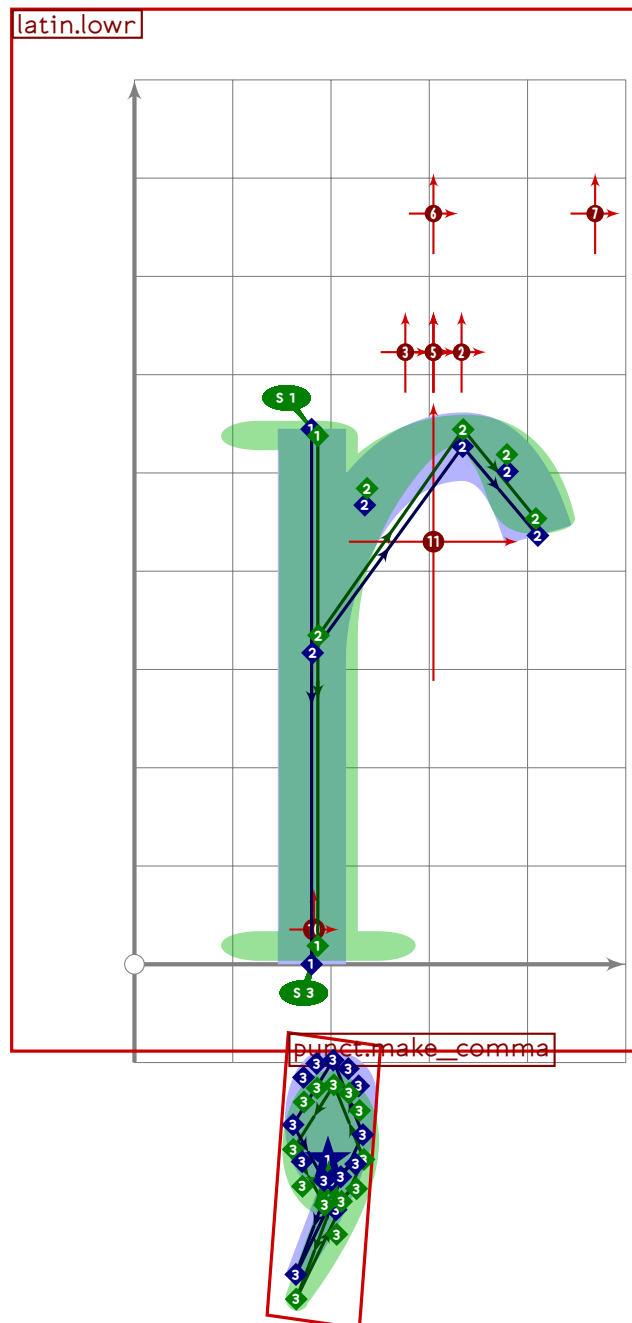
```

709 % ö with hungarian umlaut
710 begint Suglyph("ohungarumlaut";81);
711   tsu_accent.apply(latin.lowo)(tsu_accent.hungarian_umlaut);
712   tsu_render;
713 endtsuglyph;
714

```


01





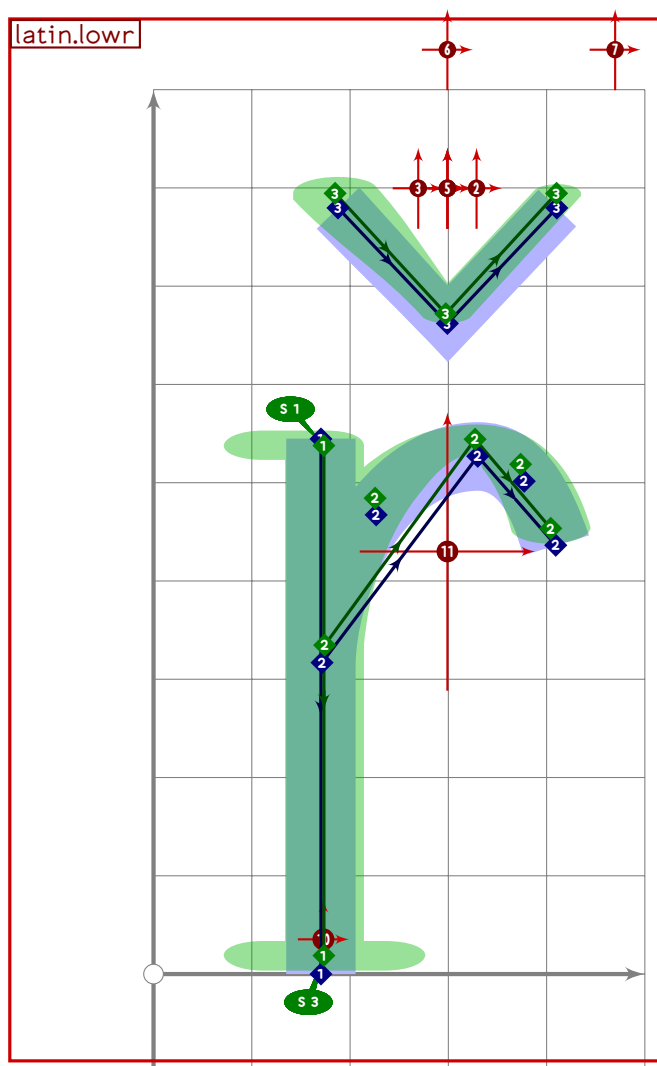
```

721 % r with comma below
722 begint Suglyph("uni0157";87);
723   tsu_accent.apply(latin.lowr)(tsu_accent.commabelow);
724   tsu_render;
725 endtsuglyph;
726

```

U+0159
tsuku.rcaron

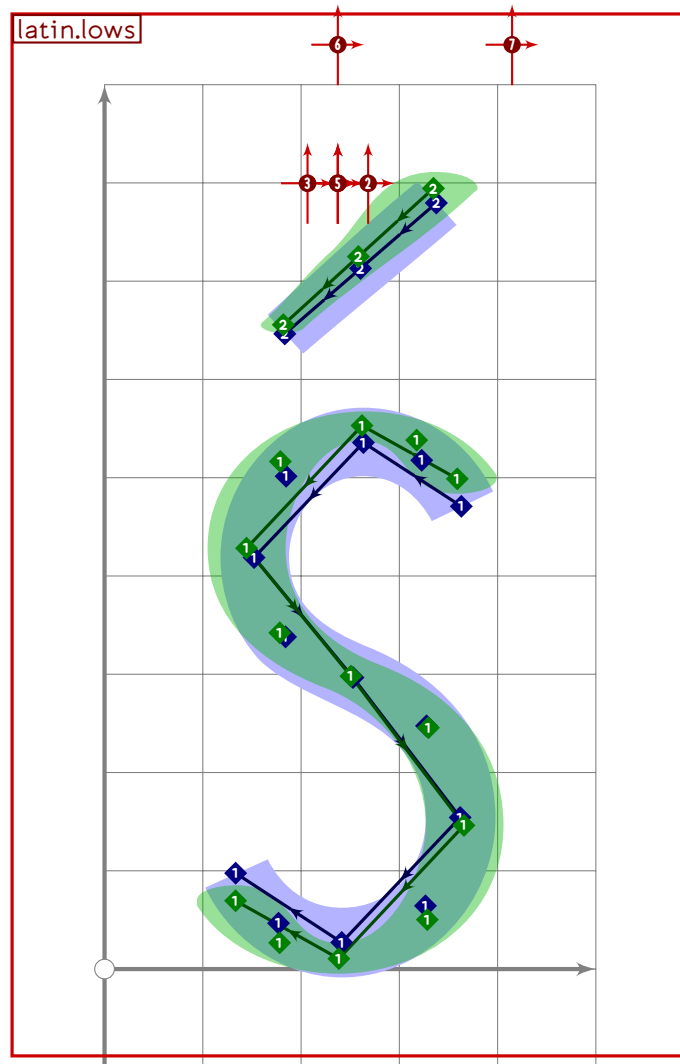
01



```

727 % r with caron
728 begintsuglyph("rcaron";89);
729   tsu_accent.apply(latin.lowr)(tsu_accent.caron);
730   tsu_render;
731 endtsuglyph;
732

```



01

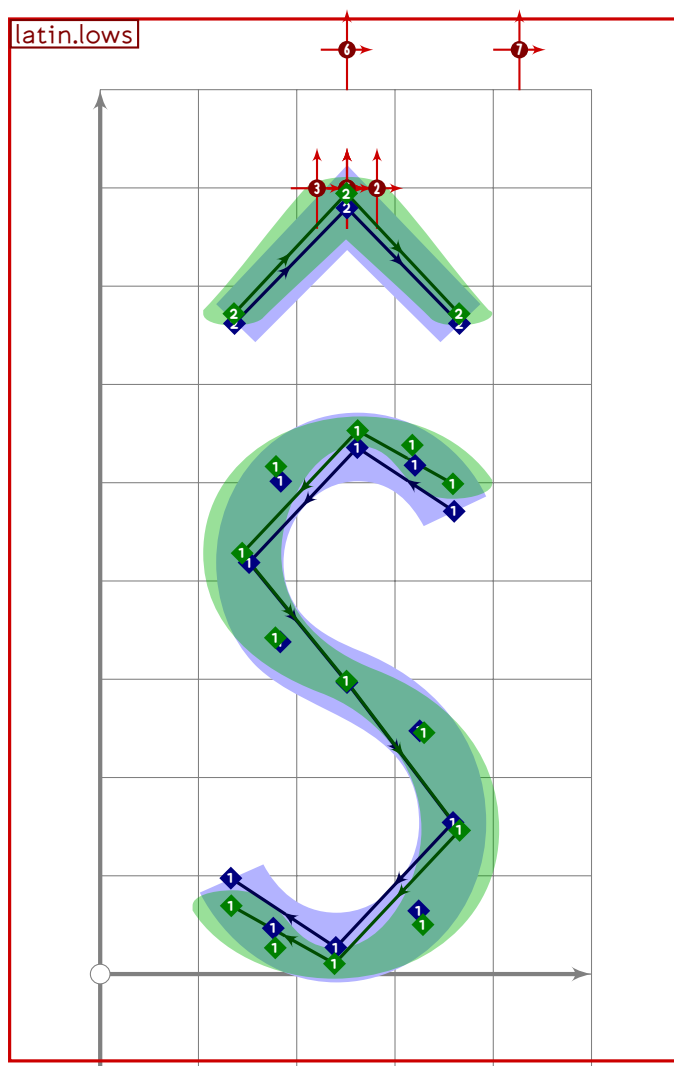
```

733 % s with acute
734 begint Suglyph("sacute";91);
735   tsu_accent.apply(latin.lows)(tsu_accent.acute);
736   tsu_render;
737 endtsuglyph;
738

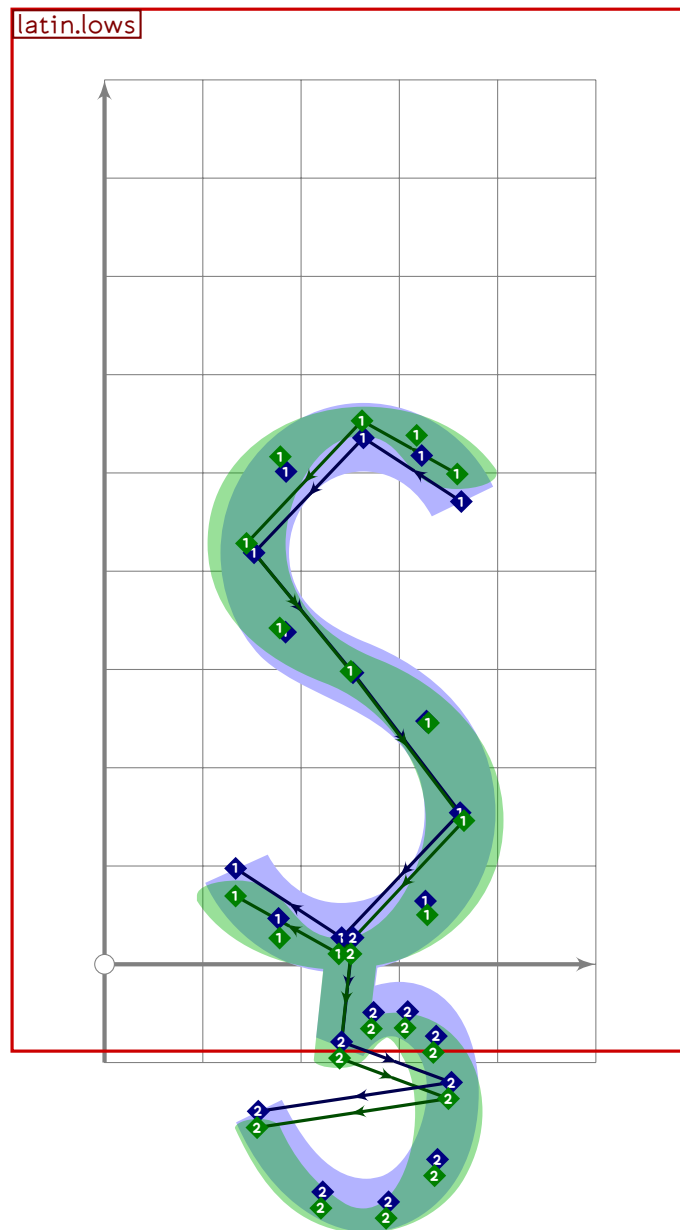
```

U+015D
tsuku.scircumflex

01



```
739 % s with circumflex
740 begint Suglyph("scircumflex";93);
741   tsu_accent.apply(latin.lows)(tsu_accent.circumflex);
742   tsu_render;
743 endtsuglyph;
744
```



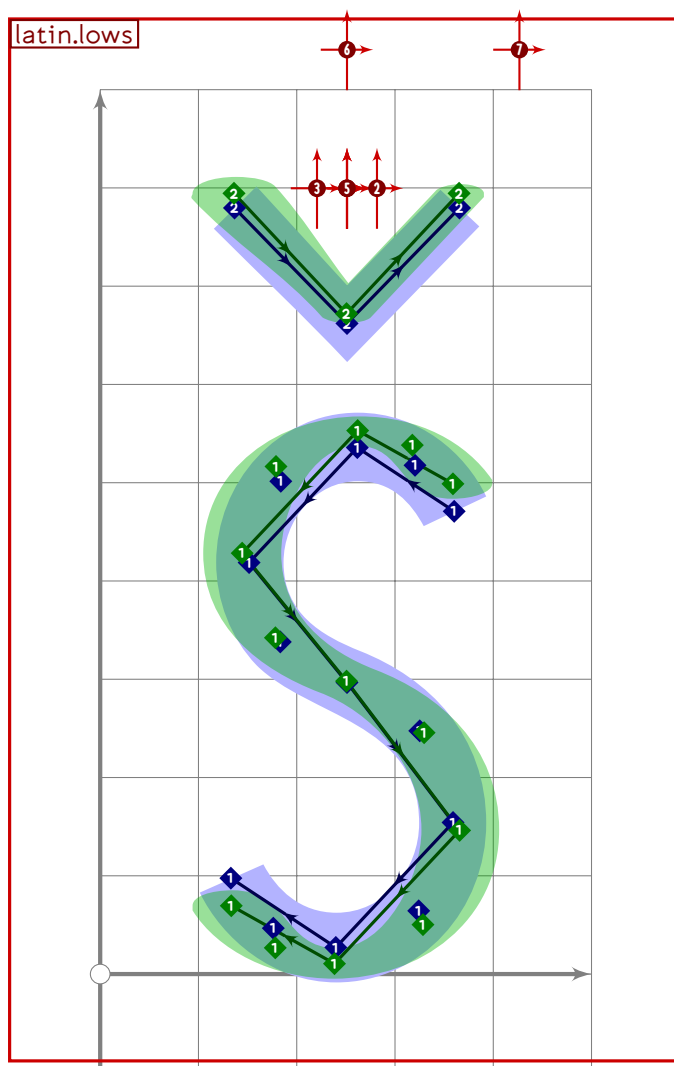
```

745 % s with cedilla
746 begintsuglyph('scedilla';95);
747   tsu_accent.apply(latin.lows)(tsu_accent.cedilla);
748   tsu_render;
749 endtsuglyph;
750

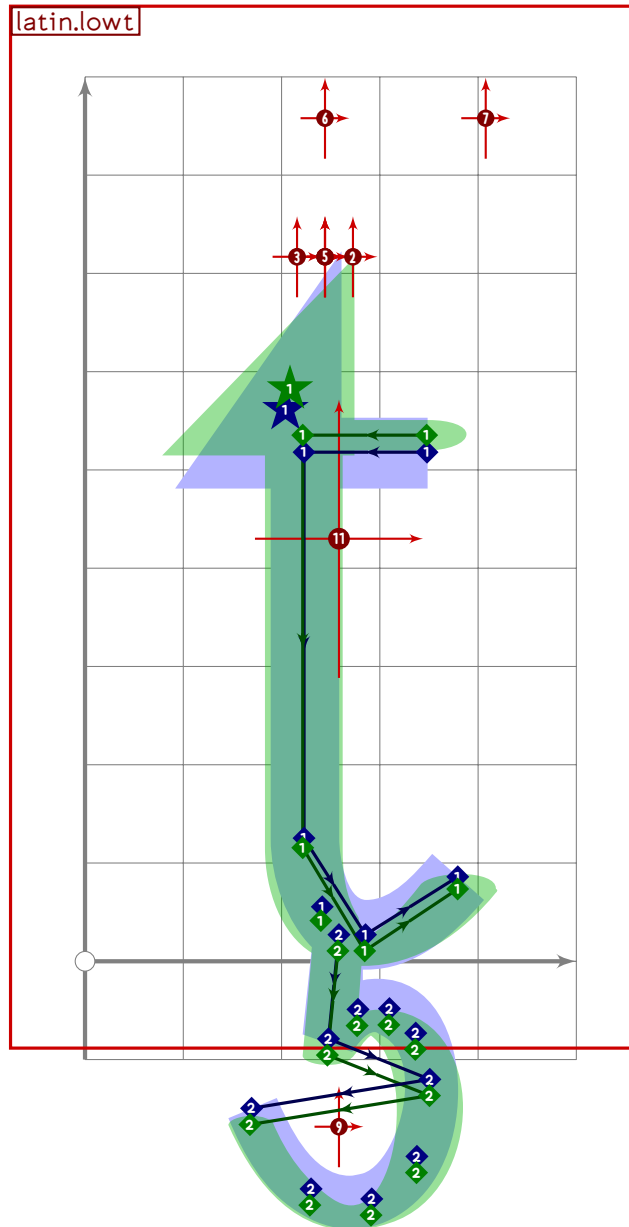
```

U+0161
tsuku.scaron

01



```
751 % s with caron
752 begint Suglyph("scaron";97);
753   tsu_accent.apply(latin.lows)(tsu_accent.caron);
754   tsu_render;
755 endtsuglyph;
756
```



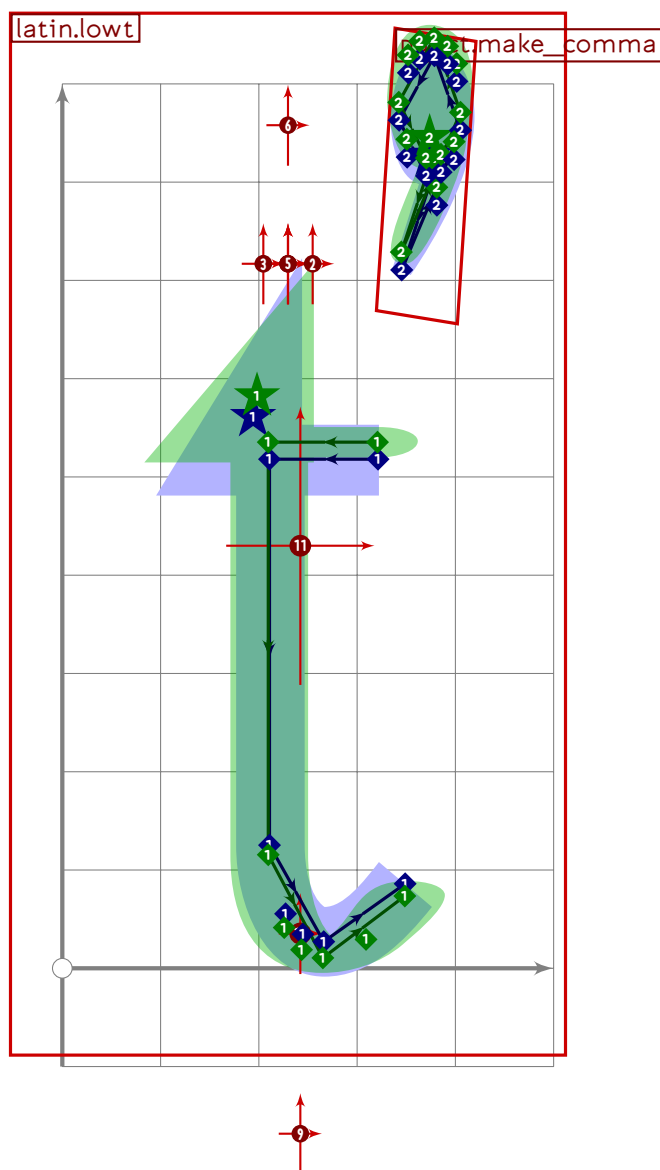
```

757 % t with cedilla [sic]
758 begintsuglyph('uni0163';99);
759   tsu_accent.apply(latin.lowt)(tsu_accent.cedilla);
760   tsu_render;
761 endtsuglyph;
762

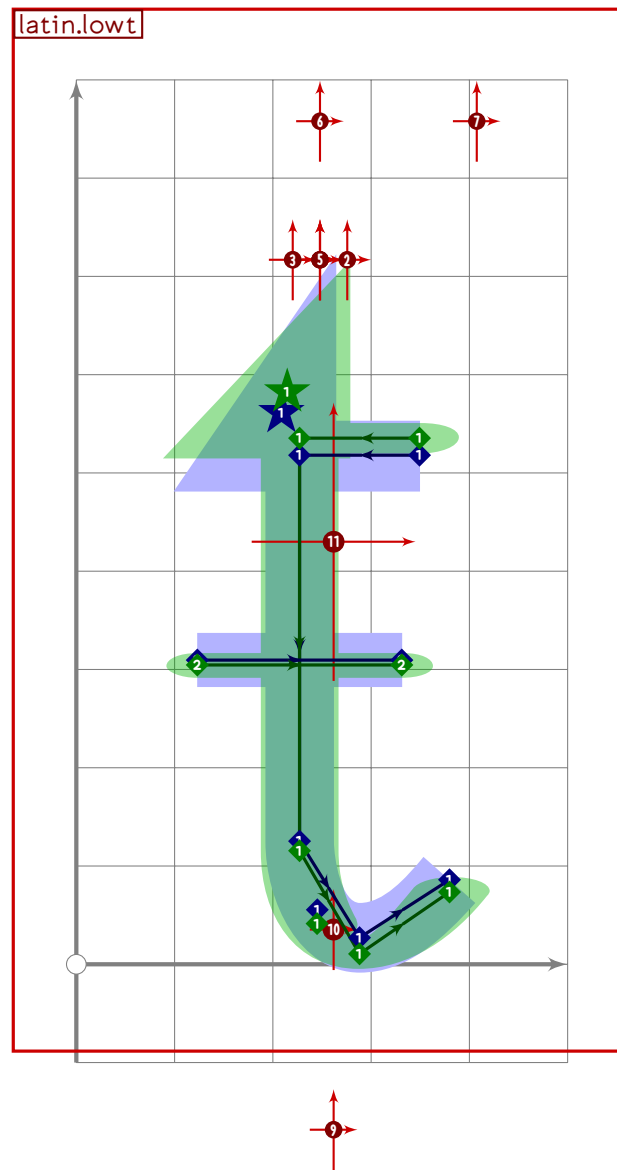
```


U+0165
tsuku.tcaron

01



```
763 % t with apostrophe caron
764 begintsuglyph("tcaron";101);
765   tsu_accent.apply(latin.lowt)(tsu_accent.caron_comma);
766   tsu_render;
767 endtsuglyph;
768
```



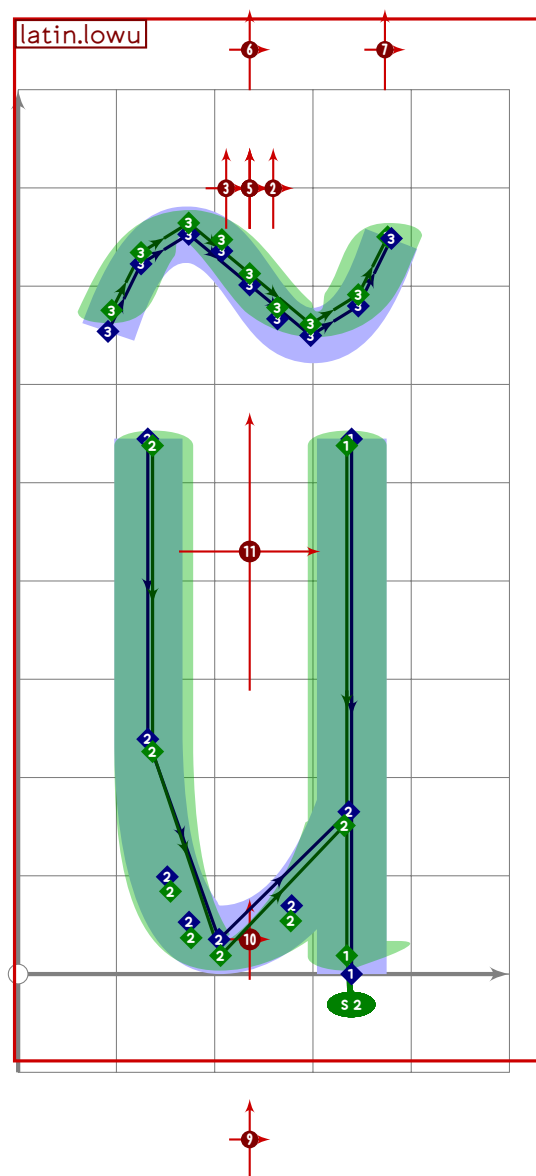
```

769 % t with bar
770 beginsuglyph("tbar",103);
771 latin.lowt;
772 push_stroke((320,vmetric(0.35))-(620,vmetric(0.35)),
773   (1.6,1.6)-(1.6,1.6));
774 set_bosize(0,80);
775 tsu_render;
776 endsuglyph;
777

```

U+0169
tsuku.utilde

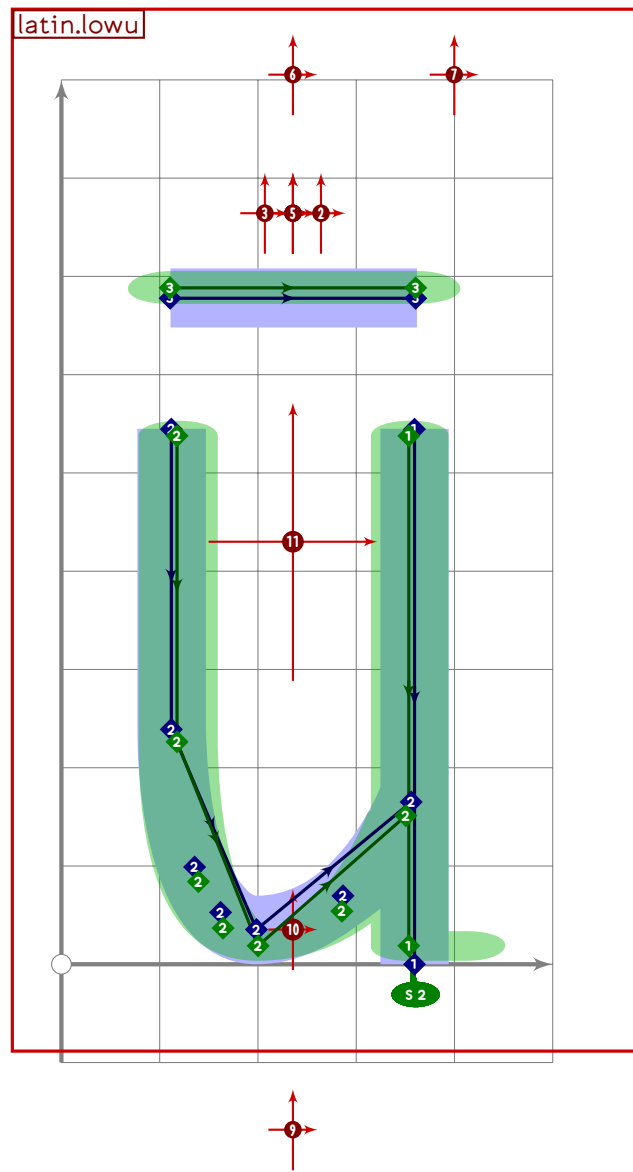
01



```

778 % u with tilde
779 begint Suglyph('utilde';105);
780   tsu_accent.apply(latin.lowu)(tsu_accent.tilde);
781   tsu_render;
782 endtsuglyph;
783

```



01

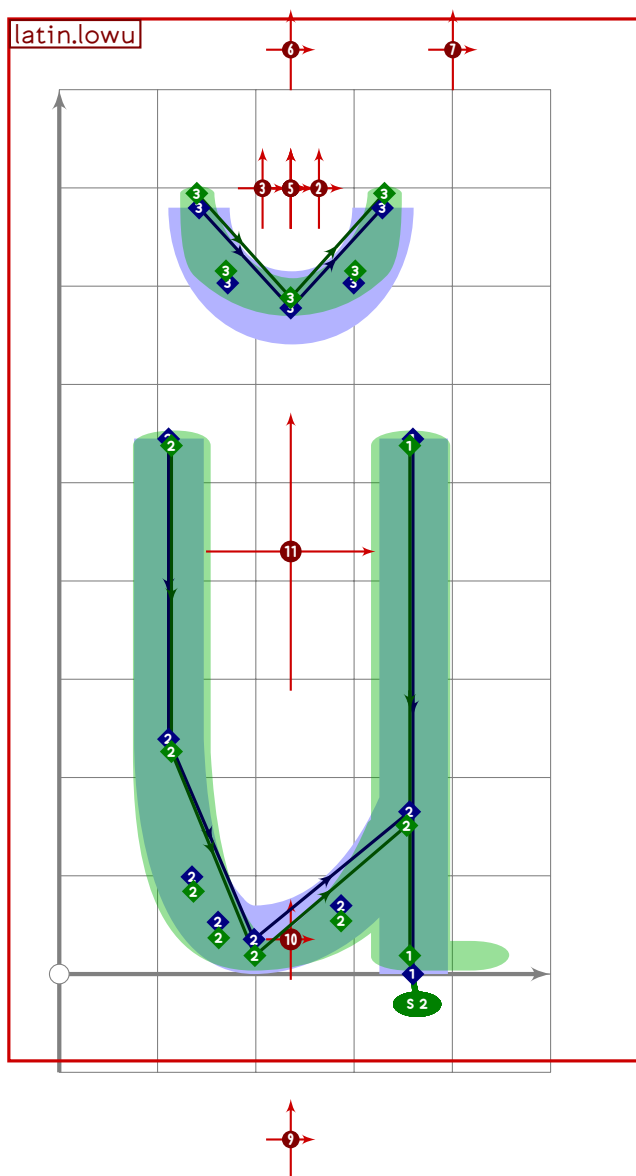
```

784 % u with macron
785 begintsuglyph("umacron",107);
786 tsu_accent.apply(latin.lowu)(tsu_accent.macron);
787 tsu_render;
788 endtsuglyph;
789

```

U+016D
tsuku.ubreve

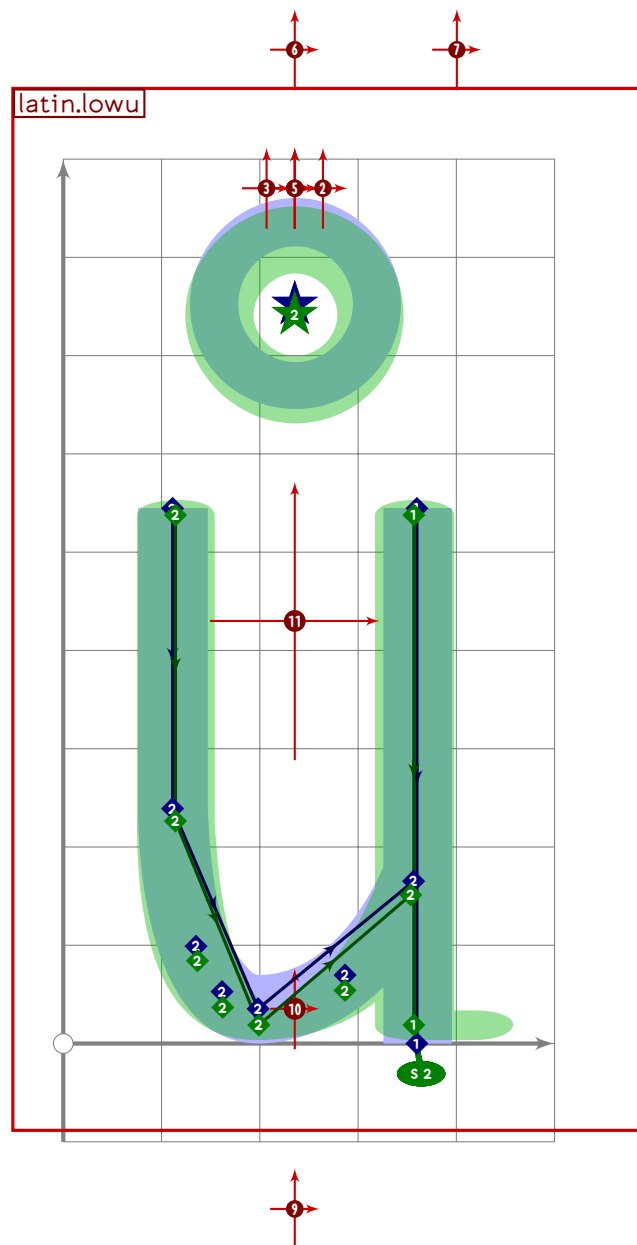
01



```

790 % u with breve
791 begint Suglyph('ubreve',109);
792   tsu_accent.apply(latin.lowu)(tsu_accent.breve);
793   tsu_render;
794 endtsuglyph;
795

```



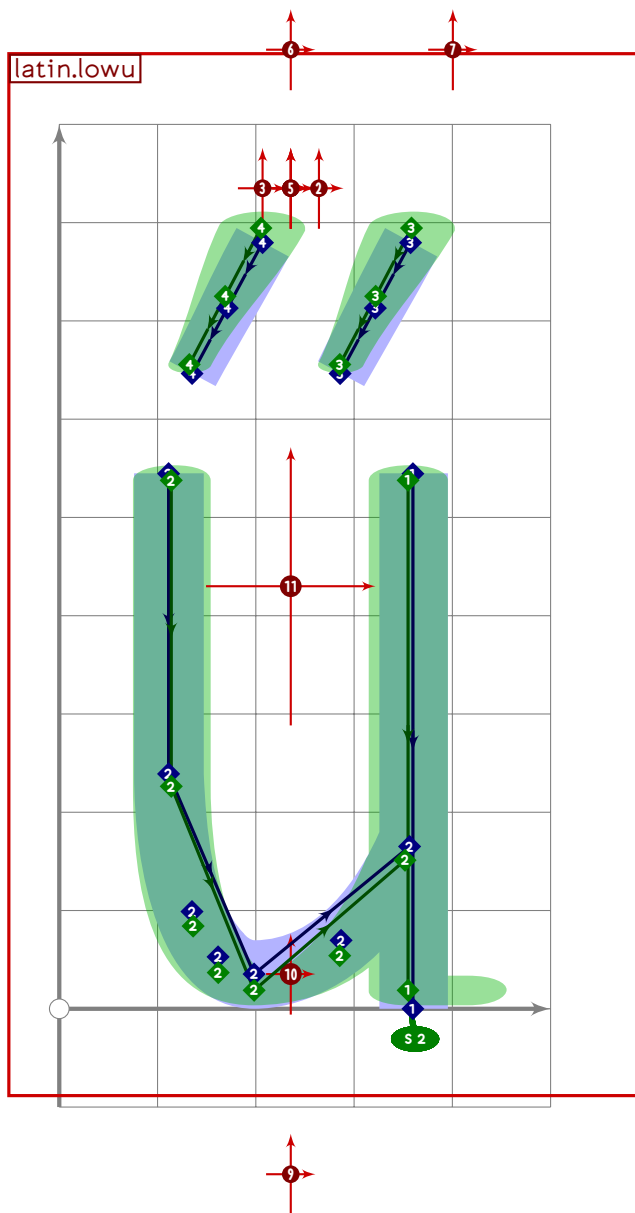
```

796 % u with ring above
797 begint Suglyph("uring",111);
798   tsu_accent.apply(latin.lowu)(tsu_accent.ringabove);
799   tsu_render;
800 endtsuglyph;
801

```

U+0171
tsuku.uhungarumlaut

01

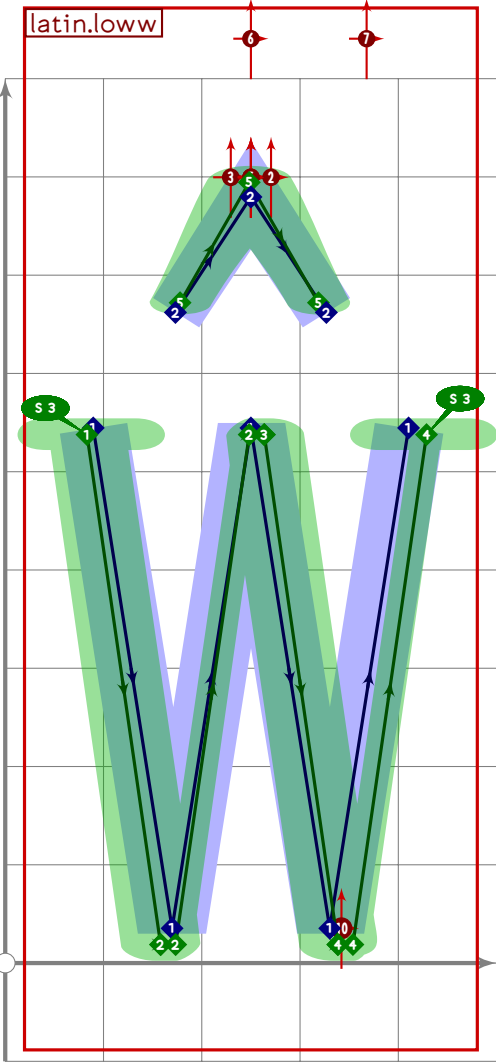


```

802 % u with Hungarian umlaut
803 begintsuglyph("uhungarumlaut";113);
804   tsu_accent.apply(latin.lowu)(tsu_accent.hungarian_umlaut);
805   tsu_render;
806 endtsuglyph;
807
808 % u with ogonek
809 begintsuglyph("uogonek";115);
810   latin.lowuogonek;
811   tsu_render;
812 endtsuglyph;
813

```

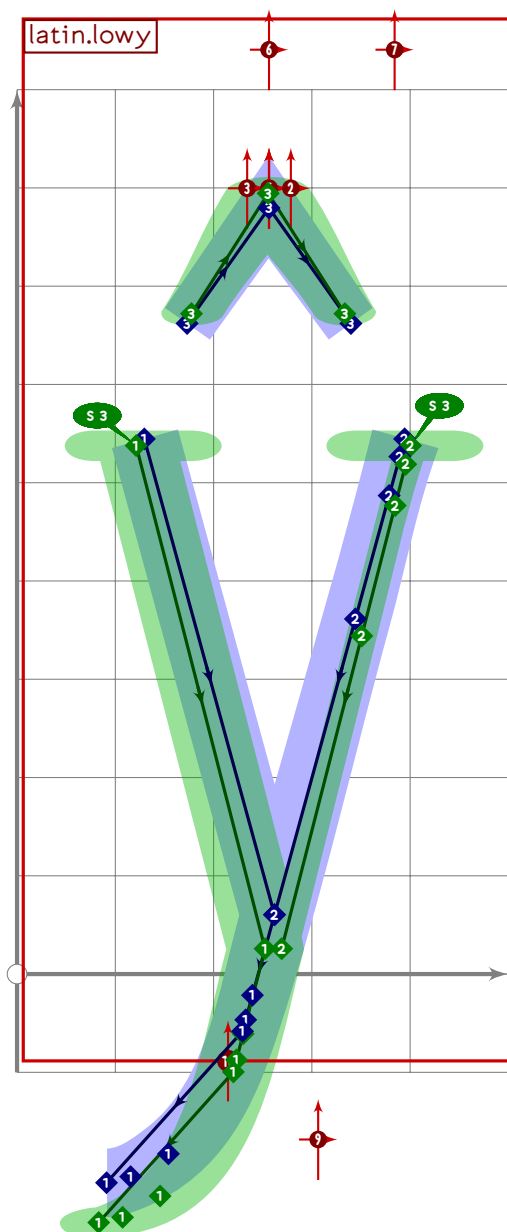
[see page 368]



```
814 % w with circumflex
815 begint Suglyph("wcircumflex",117);
816   tsu_accent.apply(latin.loww)(tsu_accent.circumflex);
817   tsu_render;
818 endtsuglyph;
819
```


U+0177
tsuku.ycircumflex

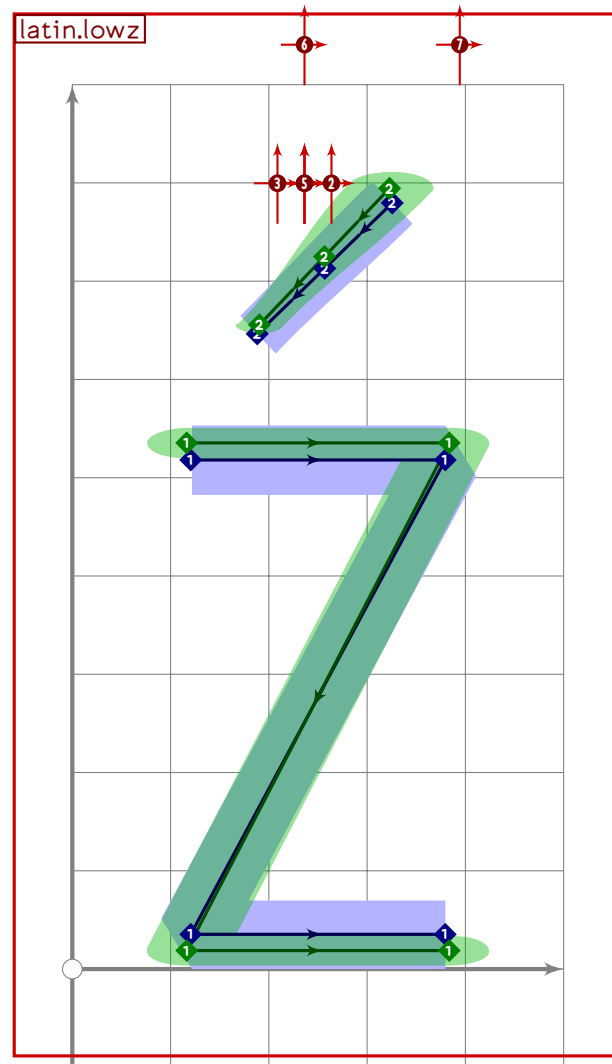
01



```

820 % y with circumflex
821 begintsuglyph("ycircumflex",119);
822 tsu_accent.apply(latin.lowy)(tsu_accent.circumflex);
823 tsu_render;
824 endtsuglyph;
825

```



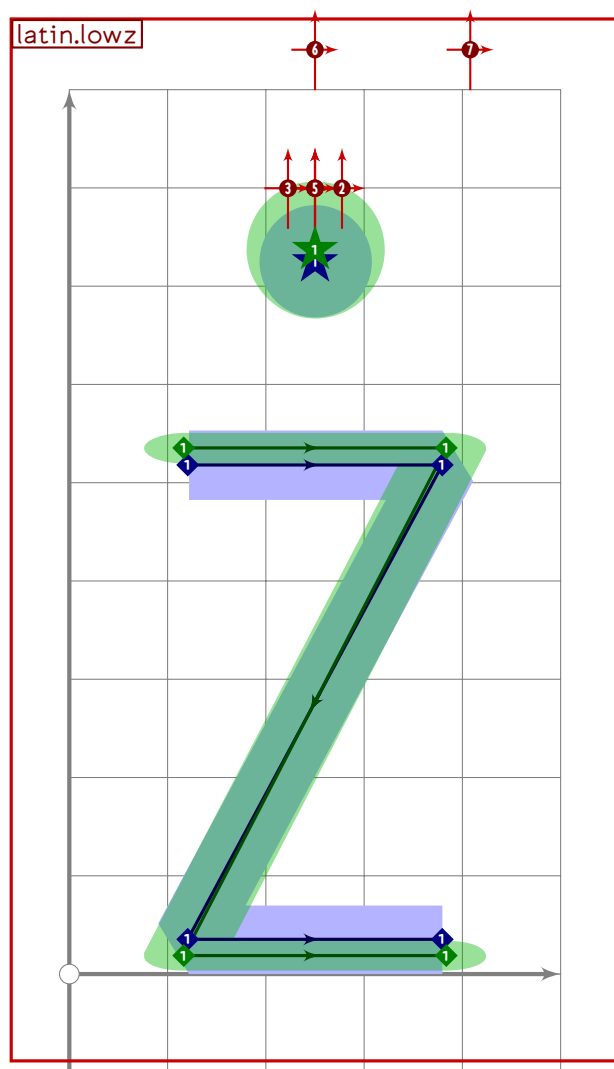
```

826 % z with acute
827 begint Suglyph("zacute",122);
828   tsu_accent.apply(latin.lowz)(tsu_accent.acute);
829   tsu_render;
830 endtsuglyph;
831

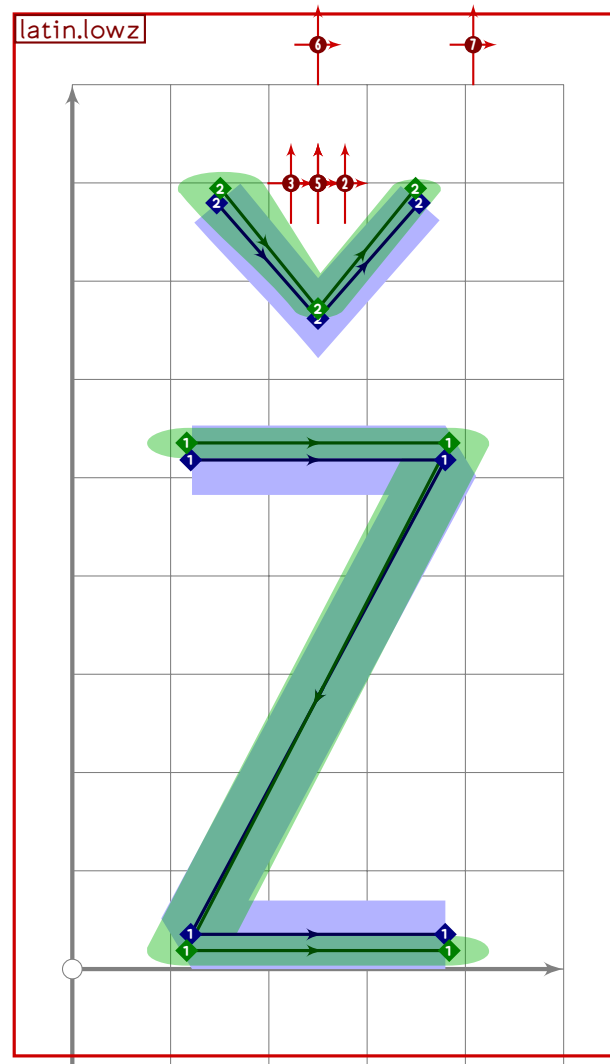
```

U+017C
tsuku.zdotaccent

01



```
832 % z with dot
833 begintsuglyph("zdotaccent",124);
834 tsu_accent.apply(latin.lowz)(tsu_accent.dotabove);
835 tsu_render;
836 endsuglyph;
837
```



```

838 % z with caron
839 begintsuglyph("zcaron";126);
840 tsu_accent.apply(latin.lowz)(tsu_accent.caron);
841 tsu_render;
842 endtsuglyph;
843
844 % long s
845 begintsuglyph("longs";127);
846 latin.lowlongs;
847 tsu_render;
848 endtsuglyph;
849
850
851

```

[see page 334]

Latin Extended A Other

```

852 % LATIN EXTENDED A OTHER
853

```

```
854 tsu_accent.clear_default_anchors;
855
856 % Dutch IJ ligature
857 begintsuglyph("IJ",50); [see page 273]
858 latin.upij;
859 tsu_render;
860 endtsuglyph;
861
862 % Dutch ij ligature
863 begintsuglyph("ij",51); [see page 318]
864 latin.lowij;
865 tsu_render;
866 endtsuglyph;
867
868 % OE ligature
869 begintsuglyph("OE",82); [see page 282]
870 latin.upoe;
871 tsu_render;
872 endtsuglyph;
873
874 % oe ligature
875 begintsuglyph("oe",83); [see page 327]
876 latin.lowoe;
877 tsu_render;
878 endtsuglyph;
879
880
881
882 endfont;
883
884
```

tsuku-02.mp

```
1 %
2 % Unicode page 02 (Spacing Modifier Letters) for Tsukurimashou
3 % Copyright (C) 2011, 2012, 2013 Matthew Skala
4 %
5-29 [Standard copyright notice]
30
31 _____
32
33 beginfont
34
35 input latin-intro.mp;
36
37 % AUTODEPS
38 input accent.mp;
39 input latin.mp;
40 input ogonek.mp;
41
42 do_late_includes;
43
44 _____
45
```

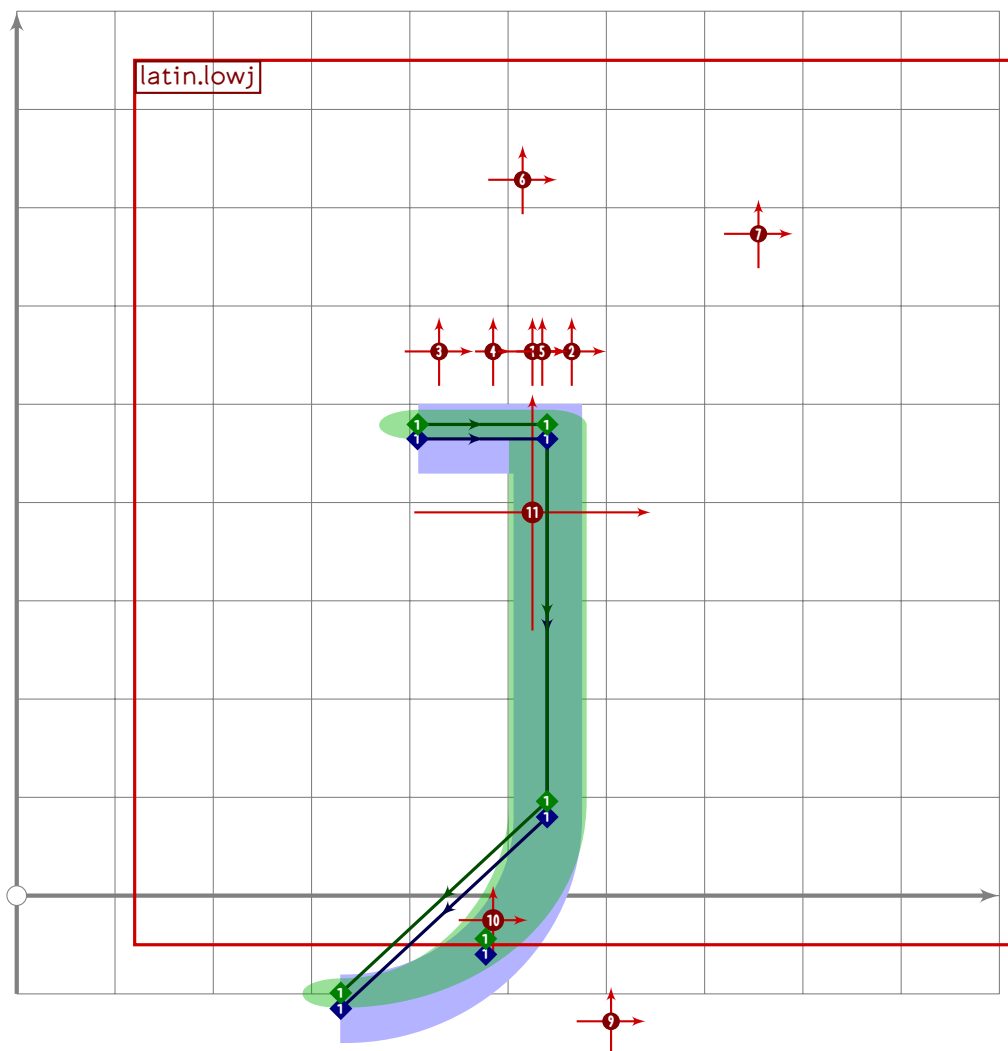
02

Latin Extended B

```
46 % LATIN EXTENDED B
47
48 tsu_accent.low_default_anchors;
49
```

U+0237
tsuku.uni0237

02



```

50 % j without dot
51 begintsuglyph("uni0237";55);
52 tsu_xform(identity shifted (70,0))(latin.lowj;
53     tsu_accent.shift_anchors(true)((0,0)));
54 pop_lcblob;
55 tsu_render;
56 endtsuglyph;
57
58 tsu_accent.clear_default_anchors;
59
60
61

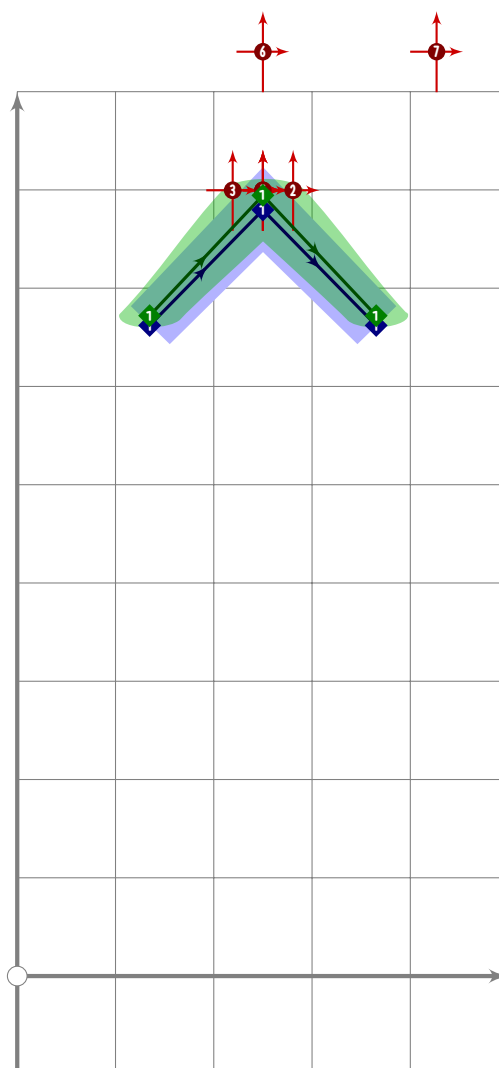
```

Spacing Modifier Letters

```

62 % SPACING MODIFIER LETTERS
63
64 tsu_rescale_half;
65

```



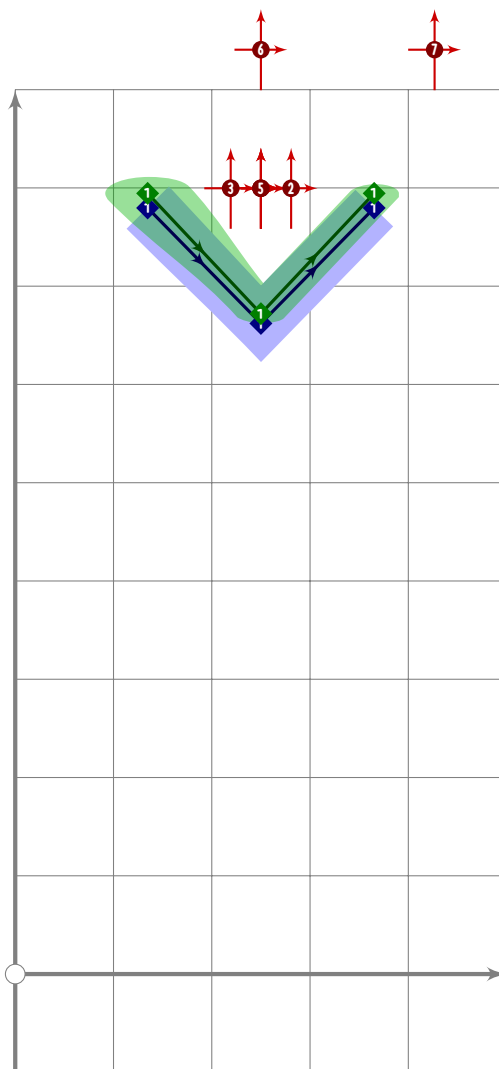
```

66 % circumflex accent
67 begint Suglyph("circumflex",198);
68   tsu_accent.apply()(tsu_accent.circumflex);
69   tsu_render;
70 endtsuglyph;
71

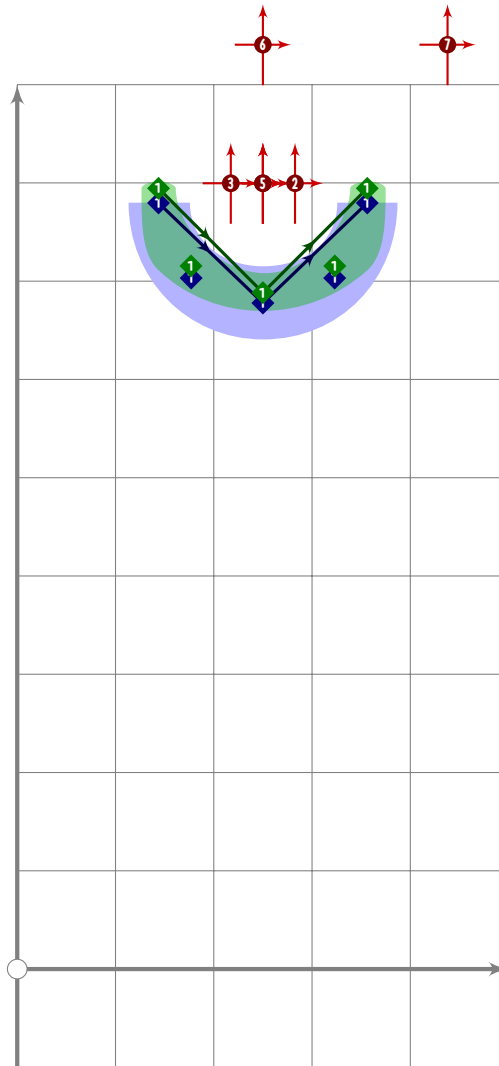
```


U+02C7
tsuku.caron

02



```
72 % caron
73 begint Suglyph("caron",199);
74   tsu_accent.apply()(tsu_accent.caron);
75   tsu_render;
76 endtsuglyph;
77
```



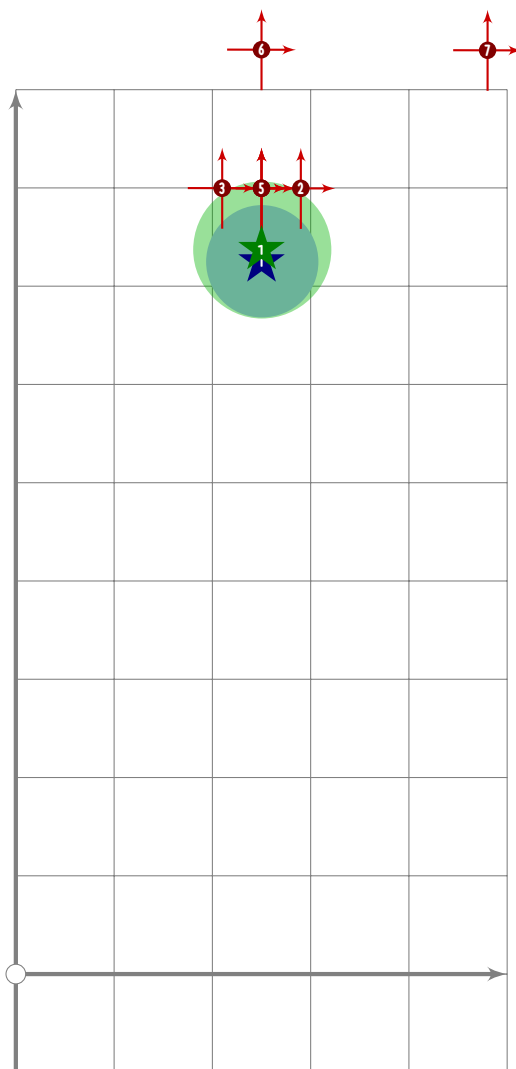
```

78 % breve
79 begint Suglyph("breve",216);
80   tsu_accent.apply()(tsu_accent.breve);
81   tsu_render;
82 endtsuglyph;
83

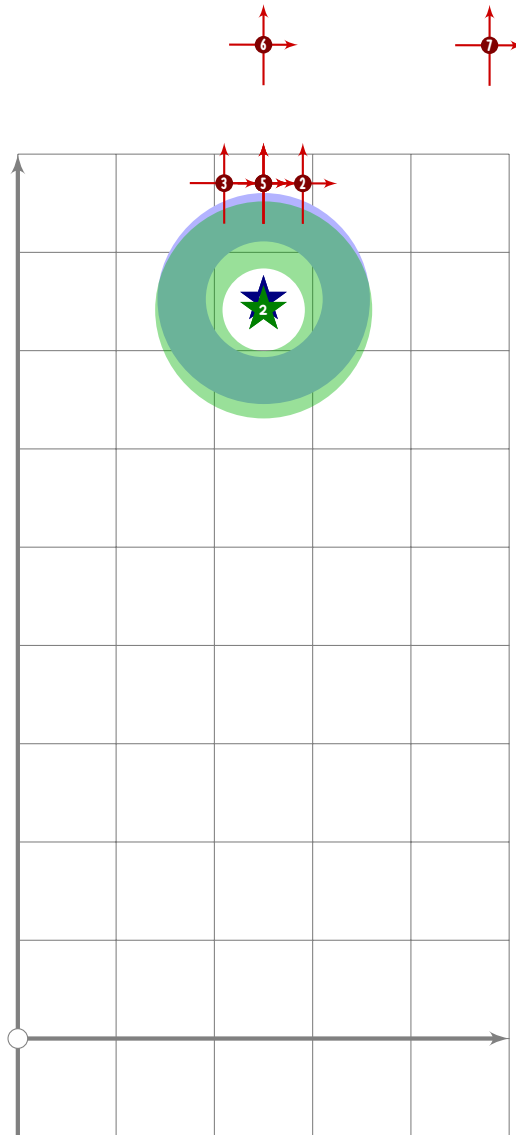
```

U+02D9
tsuku.dotaccent

02



```
84 % dot above
85 begint Suglyph("dotaccent",217);
86   tsu_accent.apply()(tsu_accent.dotabove);
87   tsu_render;
88 endtsuglyph;
89
```



02

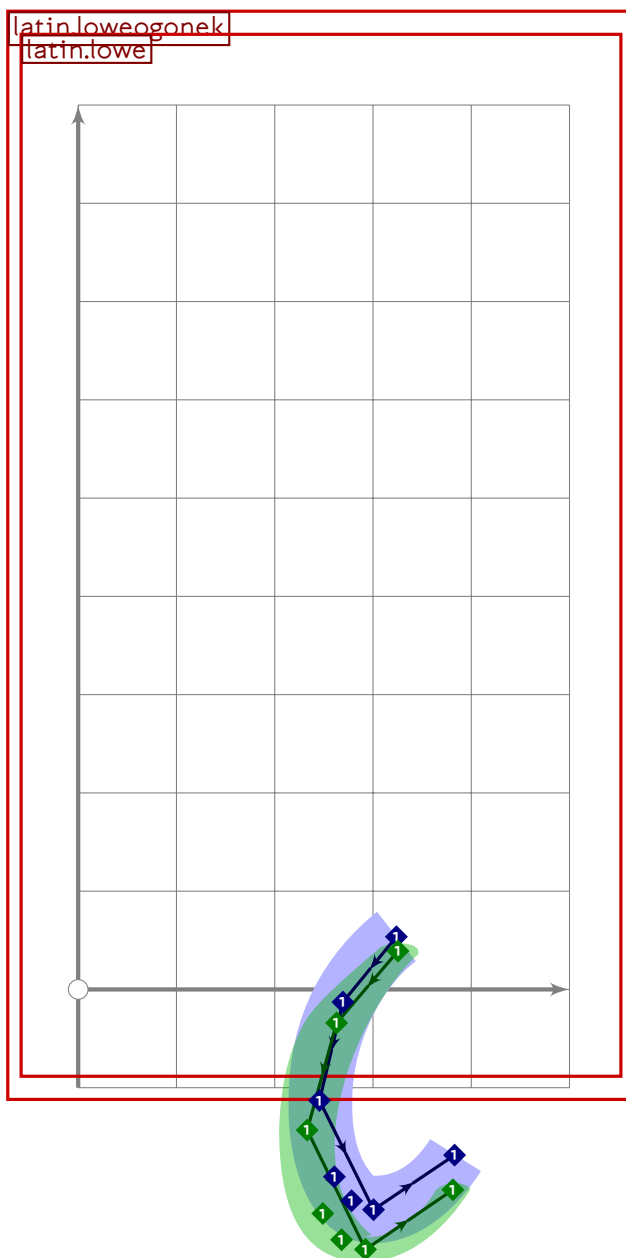
```

90 % ring above
91 begintsuglyph("ring",218);
92   tsu_accent.apply()(tsu_accent.ringabove);
93   tsu_render;
94 endsuglyph;
95

```

U+02DB
tsuku.ogonek

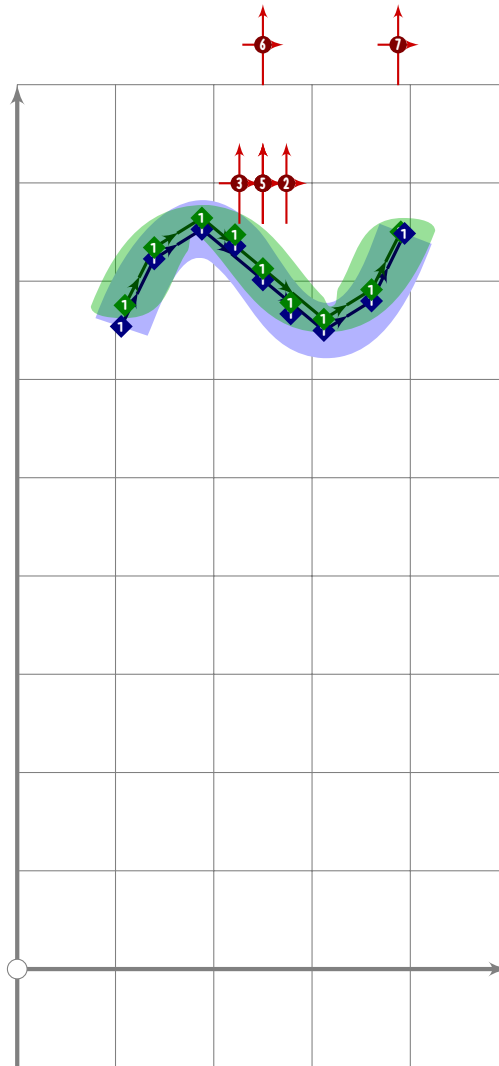
02



```

96 % ogonek
97 begint Suglyph("ogonek";219);
98 latin.loweogonek;
99 set_bsize(-1,0);
100 tsu_render;
101 endtsuglyph;
102

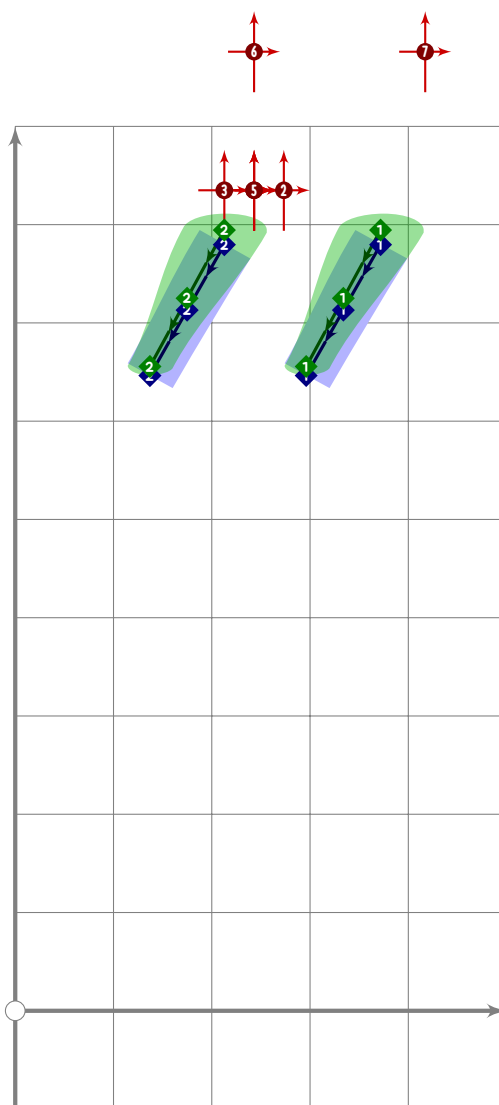
```



```

103 % small tilde
104 beginsuglyph("tilde",220);
105   tsu_accent.apply()(tsu_accent.tilde);
106   tsu_render;
107 endsuglyph;
108

```



```

109 % double acute accent
110 begintsuglyph("hungarumlaut",221);
111   tsu_accent.apply()(tsu_accent.hungarian_umlaut);
112   tsu_render;
113 endtsuglyph;
114
115 _____
116
117 endfont;
118
119 _____

```

tsuku-03.mp

```
1 %
2 % Unicode page 03 (Combining Diacritical Marks) for Tsukurimashou
3 % Copyright (C) 2011, 2012, 2013 Matthew Skala
4 %
5-29 [Standard copyright notice]
30
31 

---


32
33 beginfont
34
35 input latin-intro.mp;
36
37 % AUTODEPS
38 input accent.mp;
39 input punct.mp;
40
41 do_late_includes;
42
43 

---

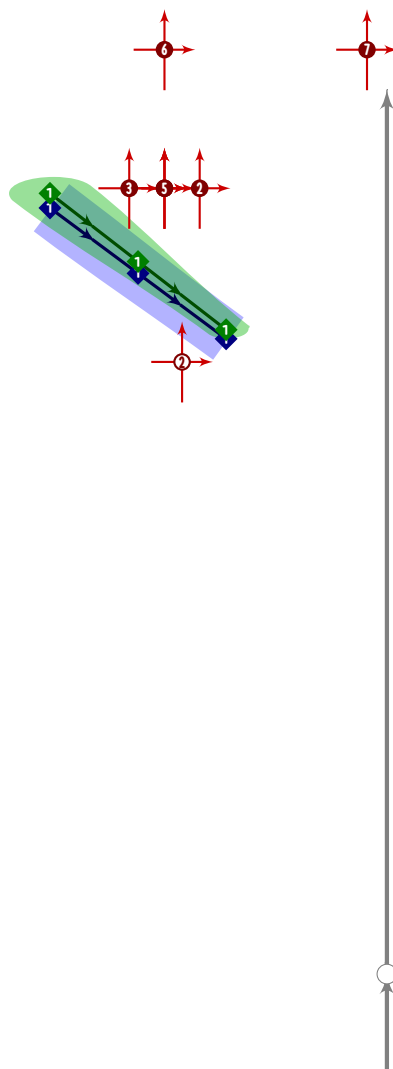

44
```

03

Combining Diacritical Marks

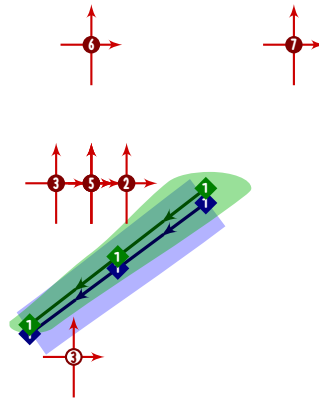
```
45 % COMBINING DIACRITICAL MARKS
46
47 tsu_rescale_combining_accent;
48
```


U+0300
tsuku.gravecomb



03

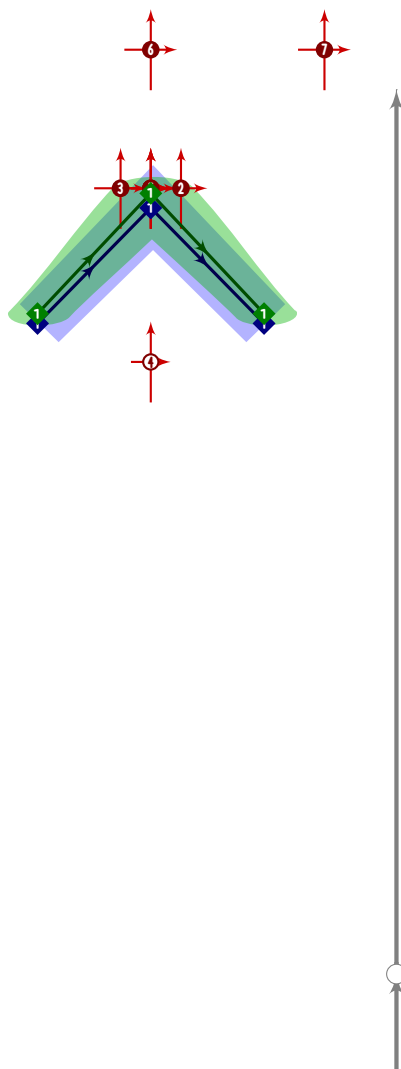
```
49 % grave accent
50 begint Suglyph("gravecomb",0);
51   tsu_accent.apply()(tsu_accent.grave);
52   push_anchor(-anc_grave,accent_default[anc_grave]);
53   tsu_render;
54 endtsuglyph;
55
```



03

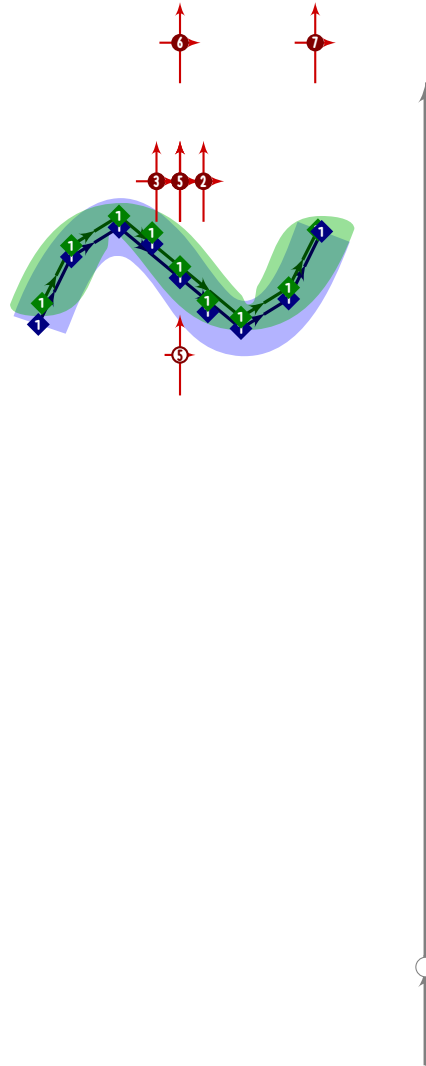
```
56 % acute accent
57 begint Suglyph("acutecomb",1);
58   tsu_accent.apply()(tsu_accent.acute);
59   push_anchor(-anc_acute,accent_default[anc_acute]);
60   tsu_render;
61 endtsuglyph;
62
```

U+0302
tsuku.uni0302

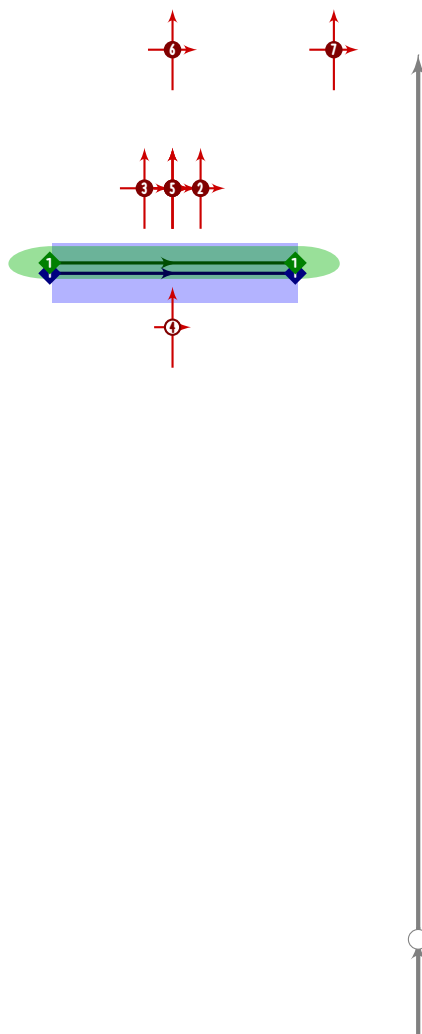


03

```
63 % circumflex accent
64 begint Suglyph("uni0302",2);
65   tsu_accent.apply()(tsu_accent.circumflex);
66   push_anchor(-anc_wide,accent_default[anc_wide]);
67   tsu_render;
68 endtsuglyph;
69
```

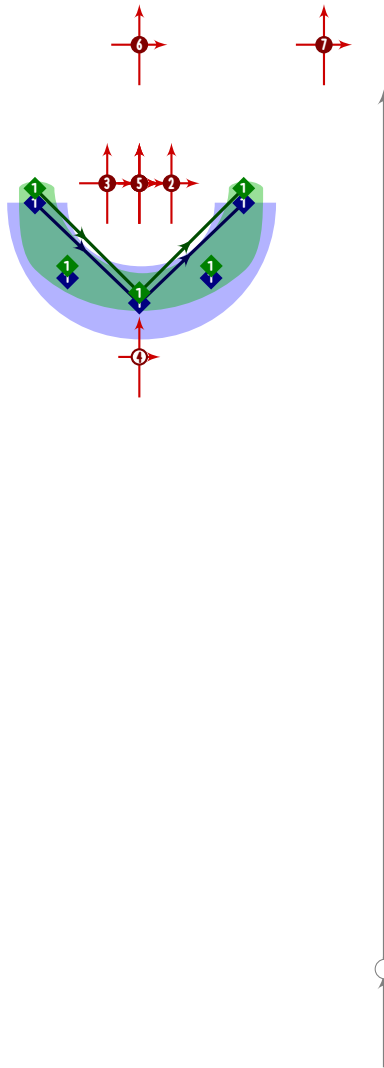


```
70 % tilde accent
71 begint Suglyph("tildecomb";3);
72   tsu_accent.apply()(tsu_accent.tilde);
73   push_anchor(-anc_tilde,accent_default[anc_tilde]);
74   tsu_render;
75 endtsuglyph;
76
```



03

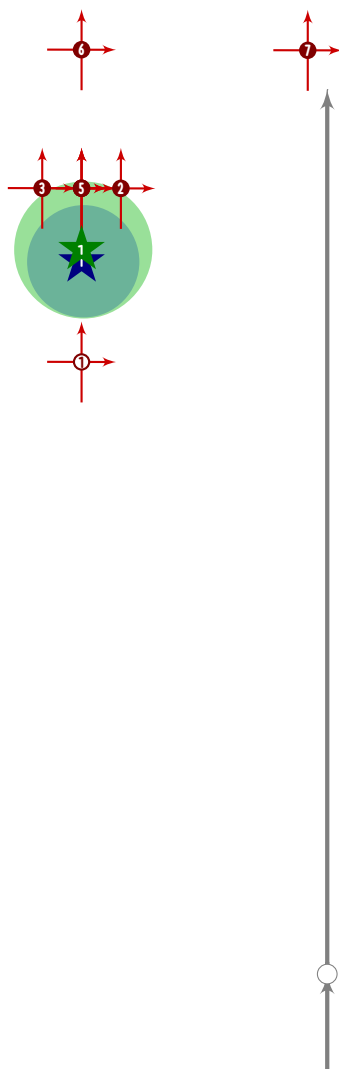
```
77 % macron
78 begint Suglyph("uni0304";4);
79   tsu_accent.apply()(tsu_accent.macron);
80   push_anchor(-anc_wide,accent_default[anc_wide]);
81   tsu_render;
82 endtsuglyph;
83
```



03

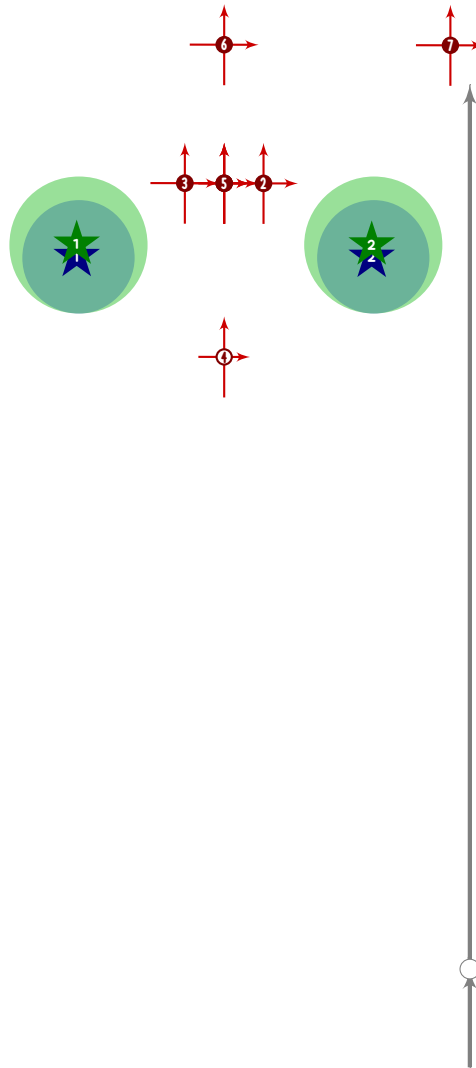
```
84 % breve
85 begintsuglyph("uni0306",6);
86 tsu_accent.apply()(tsu_accent.breve);
87 push_anchor(-anc_wide,accent_default[anc_wide]);
88 tsu_render;
89 endtsuglyph;
90
```

U+0307
tsuku.uni0307



03

```
91 % dot above
92 begint Suglyph("uni0307";7);
93   tsu_accent.apply()(tsu_accent.dotabove);
94   push_anchor(-anc_upper,accent_default[anc_upper]);
95   tsu_render;
96 endtsuglyph;
97
```

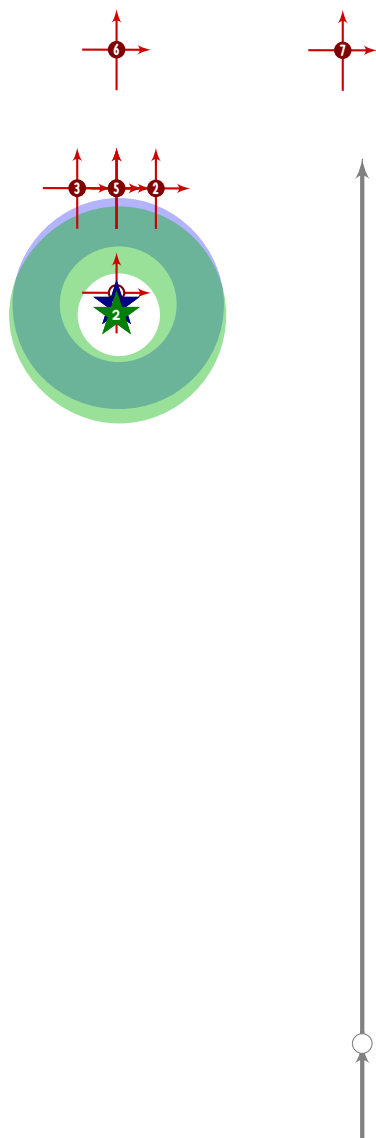


```

98 % umlaut/diaeresis
99 begintsuglyph("uni0308",8);
100 tsu_accent.apply()(tsu_accent.umlaut);
101 push_anchor(-anc_wide,accent_default[anc_wide]);
102 tsu_render;
103 endtsuglyph;
104
105 % 0309;hookabovecomb;COMBINING HOOK ABOVE
106

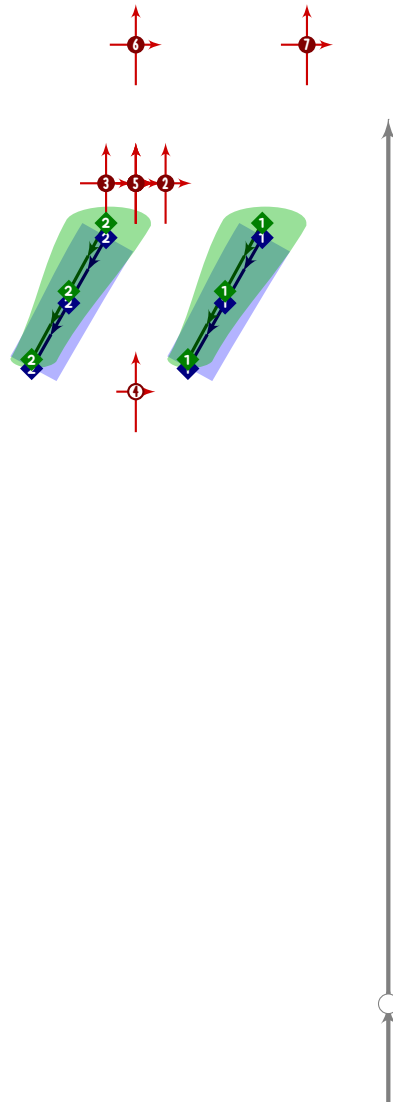
```


U+030A
tsuku.uni030A



03

```
107 % ring above
108 begint Suglyph("uni030A",10);
109   tsu_accent.apply()(tsu_accent.ringabove);
110   push_anchor(-anc_ring,accent_default[anc_ring]);
111   tsu_render;
112 endtsuglyph;
113
```

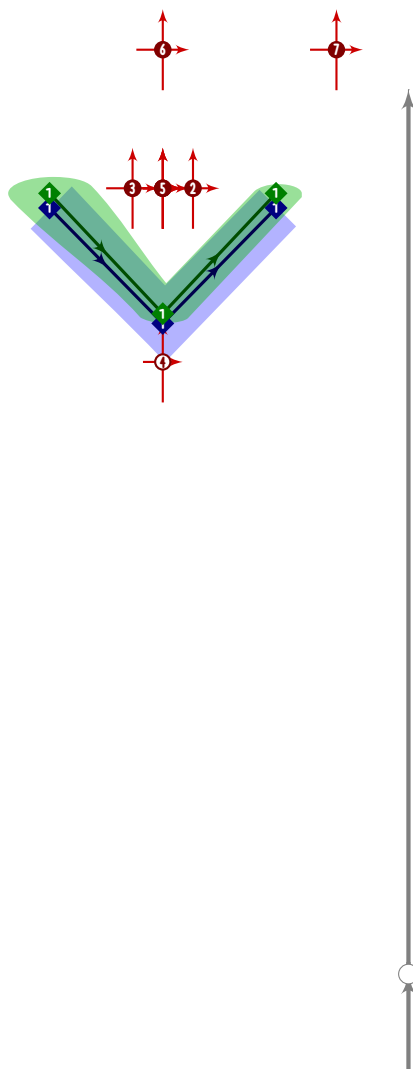


```

114 % double acute/hungarian umlaut
115 begintsuglyph("uni030B",11);
116 tsu_accent.apply()(tsu_accent.hungarian_umlaut);
117 push_anchor(-anc_wide,accent_default[anc_wide]);
118 tsu_render;
119 endsuglyph;
120

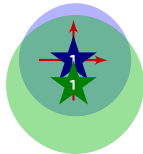
```

U+030C
tsuku.uni030C



03

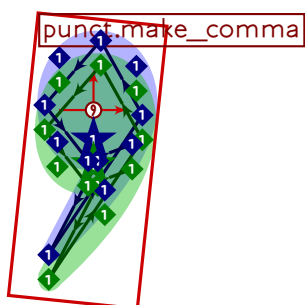
```
121 % caron/hacek
122 begint Suglyph("uni030C",12);
123   tsu_accent.apply()(tsu_accent.caron);
124   push_anchor(-anc_wide,accent_default[anc_wide]);
125   tsu_render;
126 endtsuglyph;
127
```



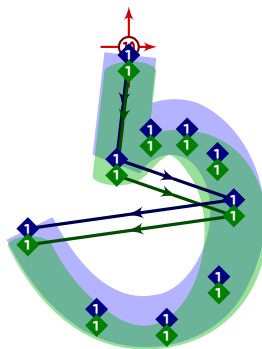
```
128 % dot below
129 beginsuglyph("dotbelowcomb",35);
130   tsu_accent.apply()(tsu_accent.dotbelow);
131   push_anchor(-anc_lower,accent_default[anc_lower]);
132   tsu_render;
133 endsuglyph;
134
```

U+0326
tsuku.uni0326

03



```
135 % comma below
136 begint Suglyph('uni0326',38);
137   tsu_accent.apply()(tsu_accent.comma below);
138   push_anchor(-anc_lower,accent_default[anc_lower]);
139   tsu_render;
140 endtsuglyph;
141
```



```

142 % cedilla
143 begint Suglyph("uni0327",39);
144   tsu_accent.apply()(tsu_accent.cedilla);
145   push_anchor(-anc_lower_connect,accent_default[anc_lower_connect]);
146   tsu_render;
147 endtsuglyph;
148
149 _____
150
151 endfont;
152
153 _____

```