

作りましょう 0.11

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 0.11

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

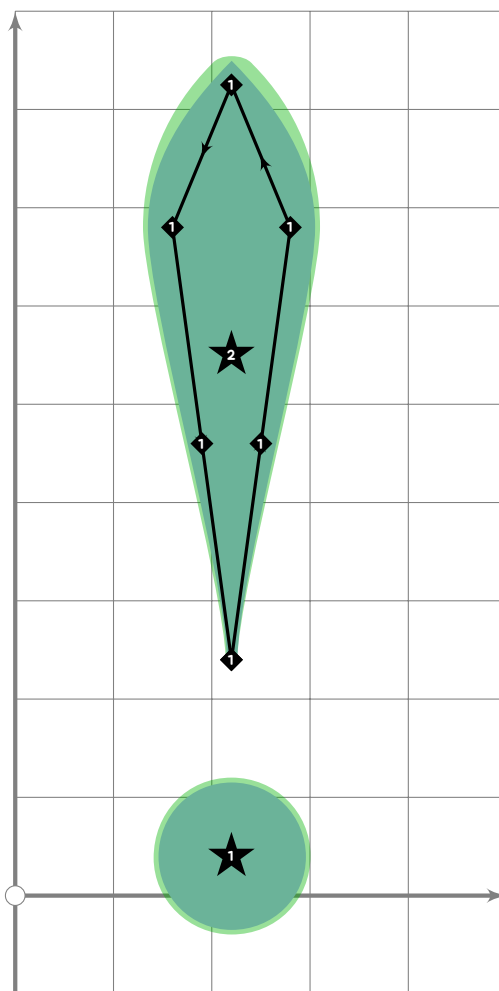
tsuku-00.mp

00

```
1 %
2 % Unicode page 00 (ASCII/ISO Latin-1) for Tsukurimashou
3 % Copyright (C) 2011, 2012, 2013, 2021 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_strokep(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:

```

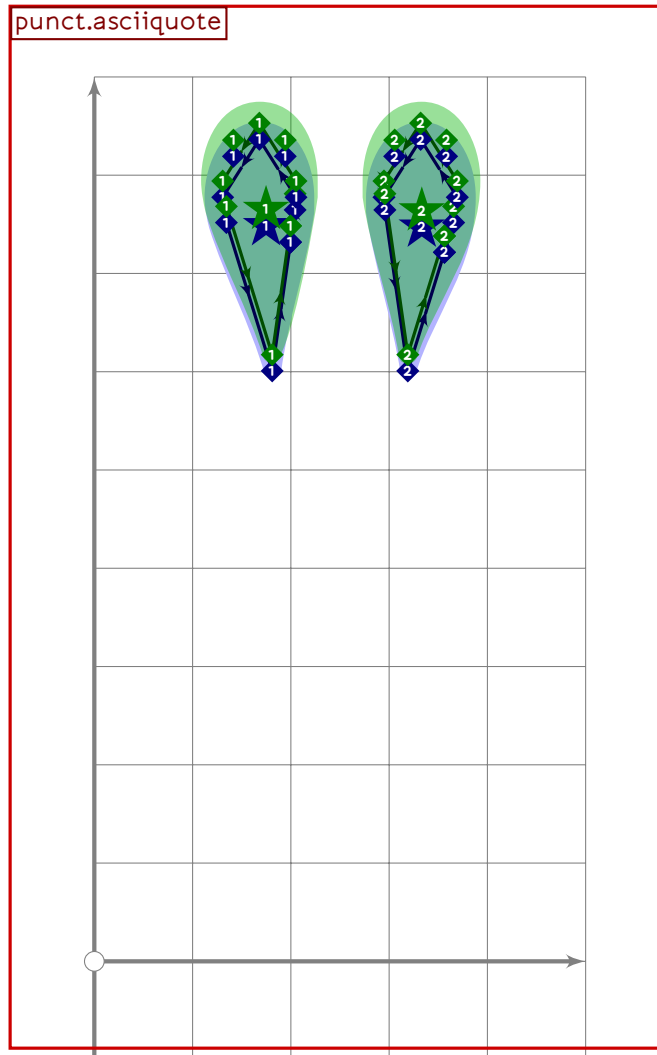


```

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

```

00



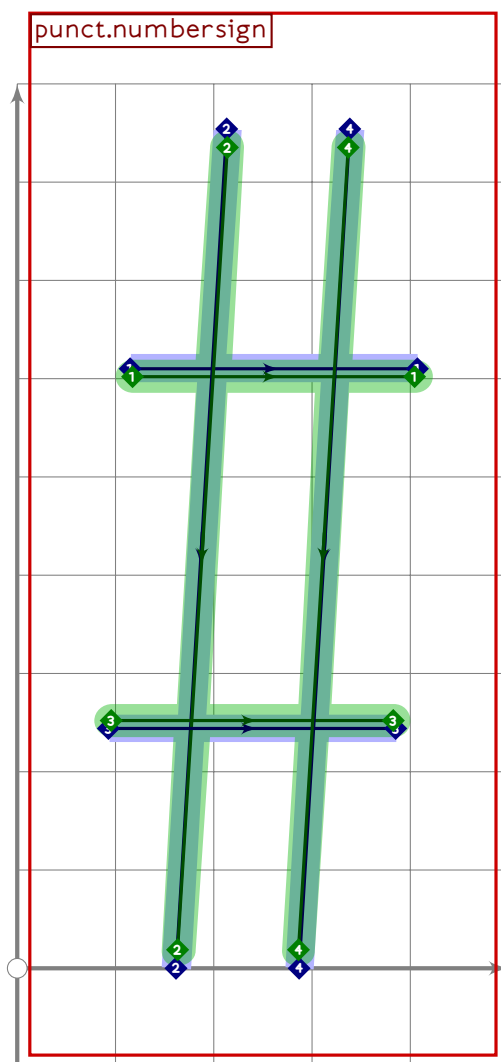
```

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

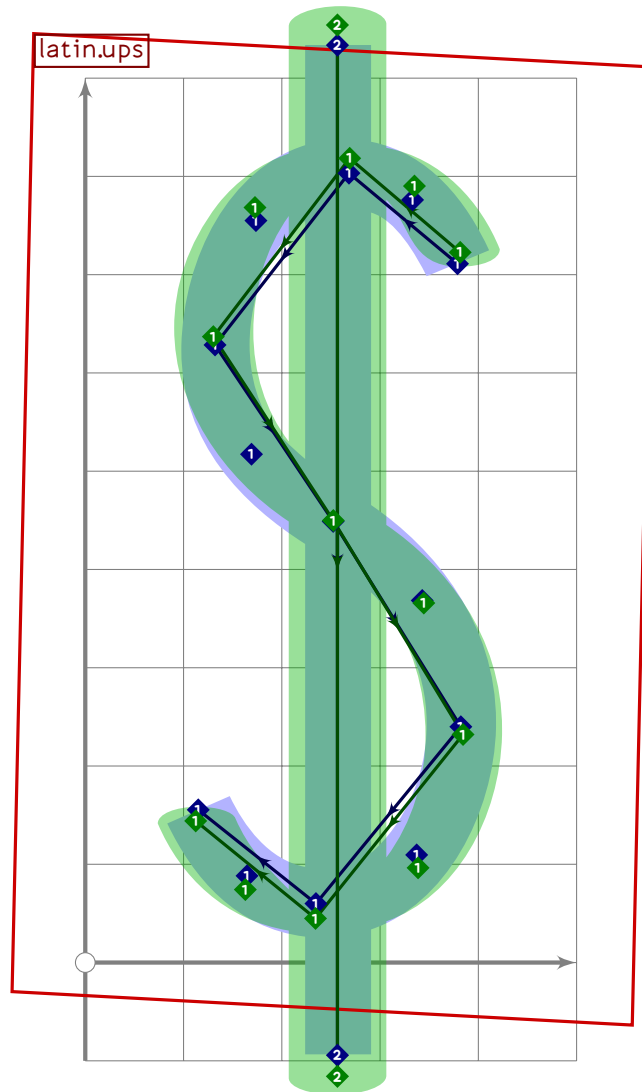
```

U+0023
tsuku.numbersign

00



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



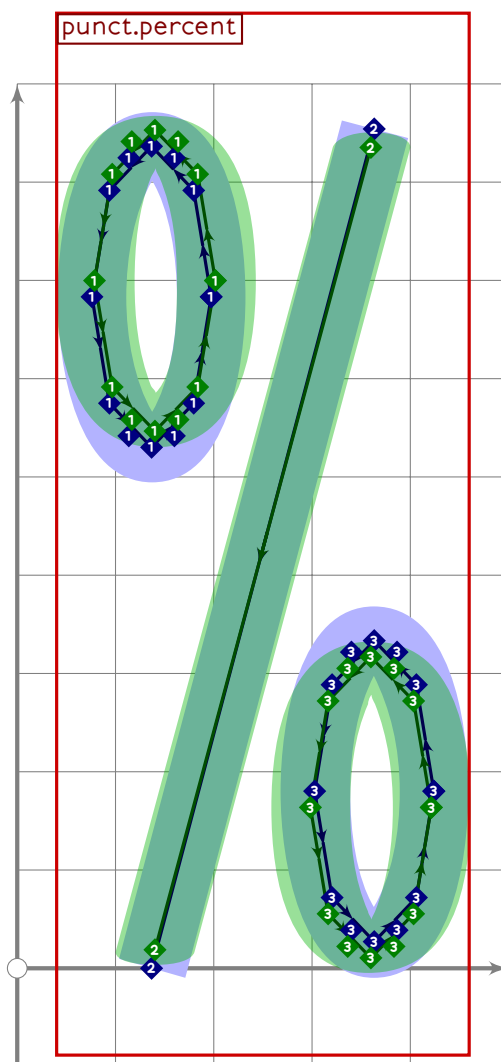
```

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_stroke(0),xpart lrcorner get_stroke(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

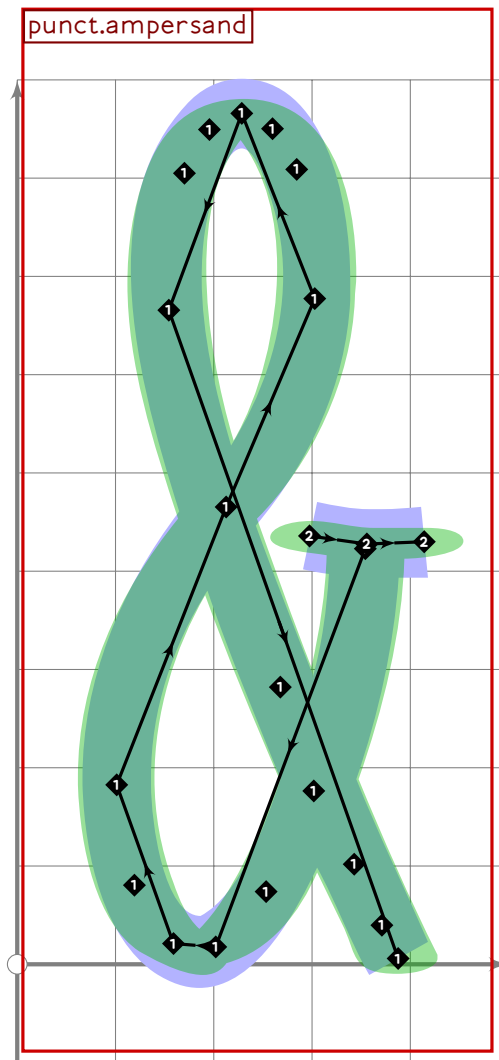
```

U+0025
tsuku.percent

00



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



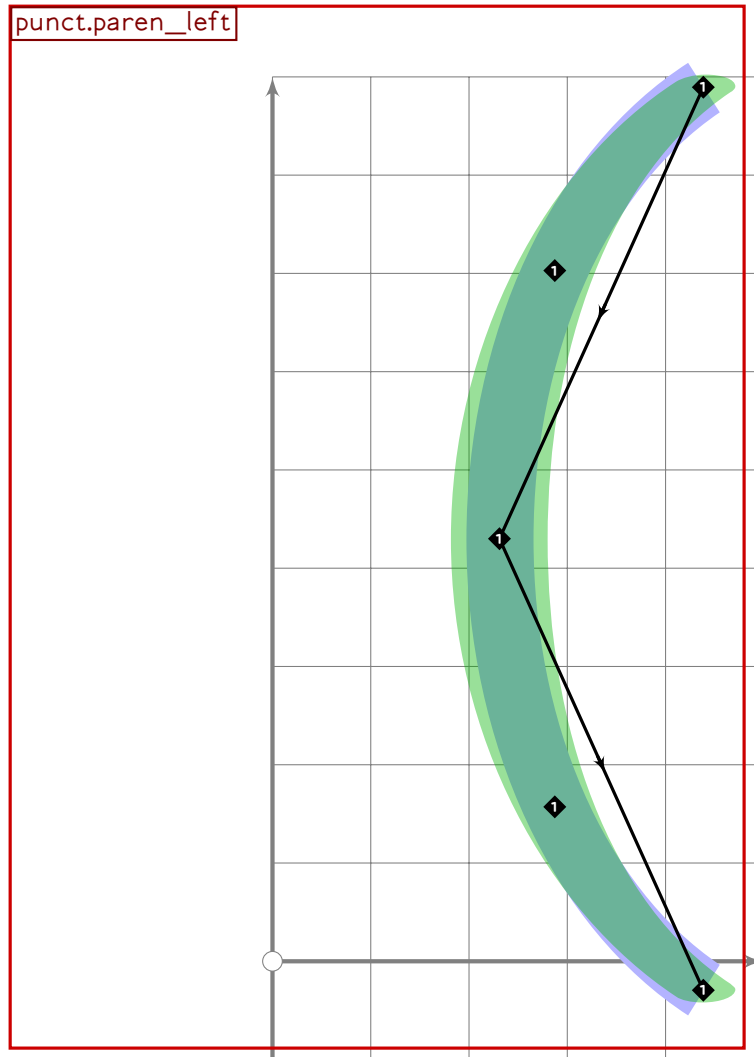
```
126 % ampersand
127 begintsuglyph("ampersand";38);
128   punct.ampersand;
129   tsu_render;
130 endtsuglyph;
131
```

U+0027
tsuku.quotesingle

00



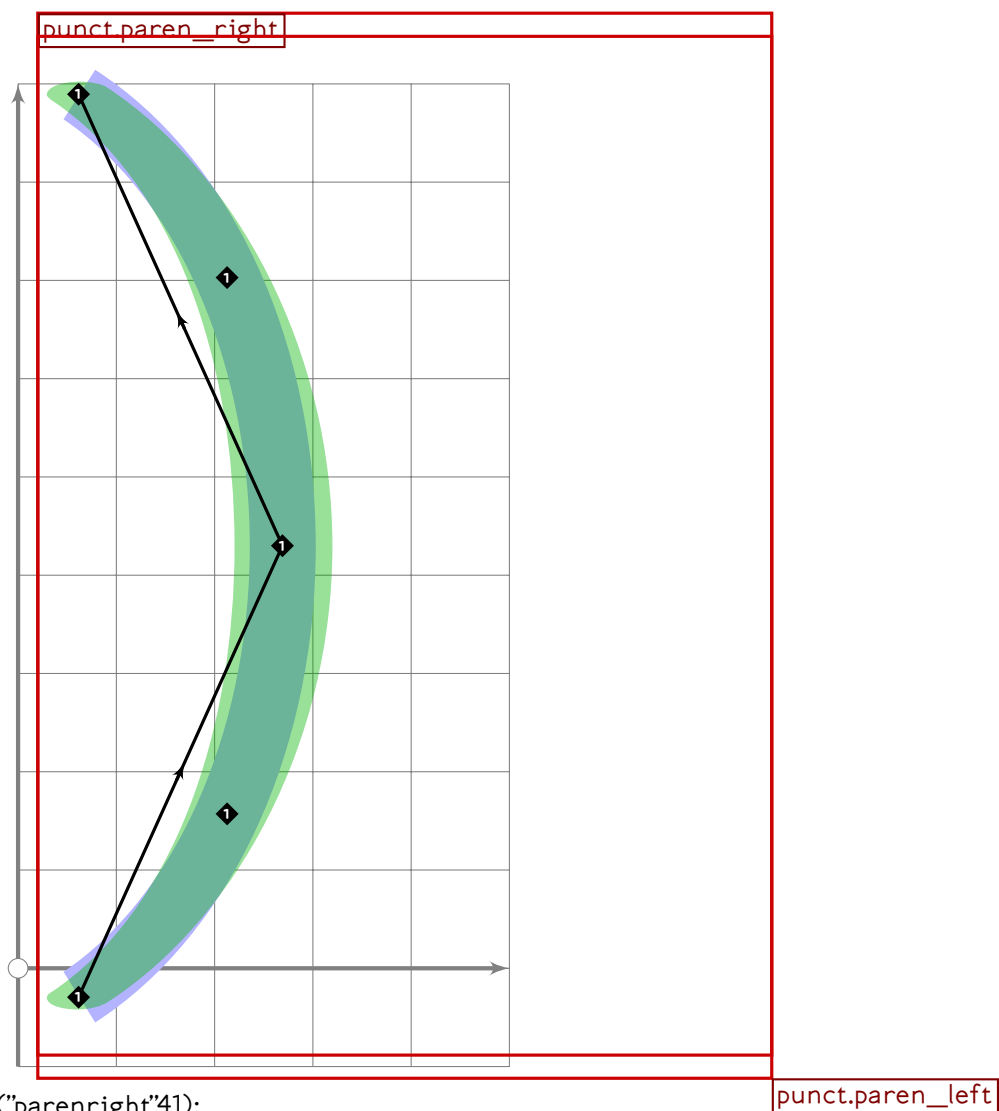
```
132 % apostrophe
133 begintsuglyph("quotesingle";39);
134   punct.make_comma((480,vmetric(0.94)),0);
135   tsu_render;
136 endtsuglyph;
137
```



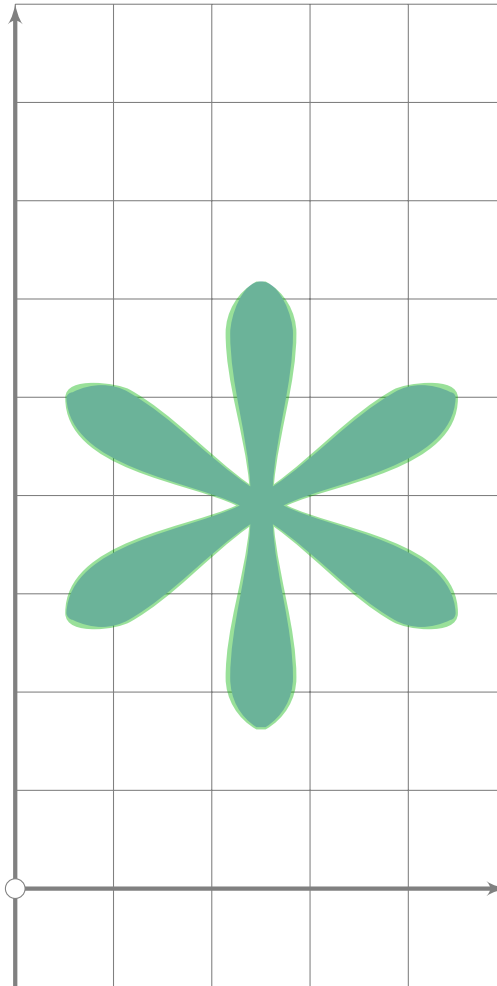
```
138 % left and right parentheses
139 beginsuglyph("parenleft",40);
140   punct.paren_left;
141   tsu_render;
142 endsuglyph;
```

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
```

```

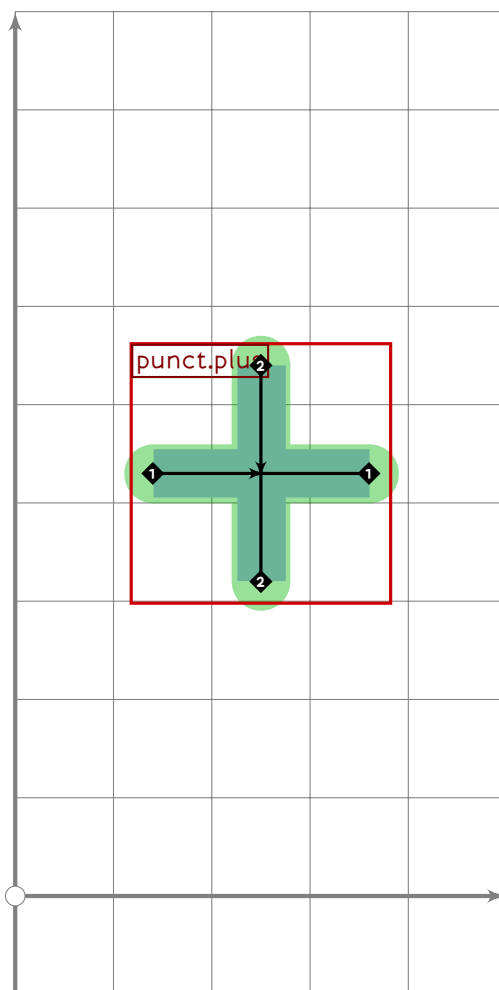
151 % asterisk
152 begintsuglyph("asterisk",42);
153   begingroup
154     save lobe,glyph,nlobes;
155     path lobe,glyph;
156     numeric nlobes;
157
158     lobe:=(1,0){up}..((1+tsu_brush_max.brpunct)*tsu_punct_size/8,140){up}
159       ..{curl 1}{0,175}{curl 1}
160       ..(-(1+tsu_brush_max.brpunct)*tsu_punct_size/8,140){down};
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);

```

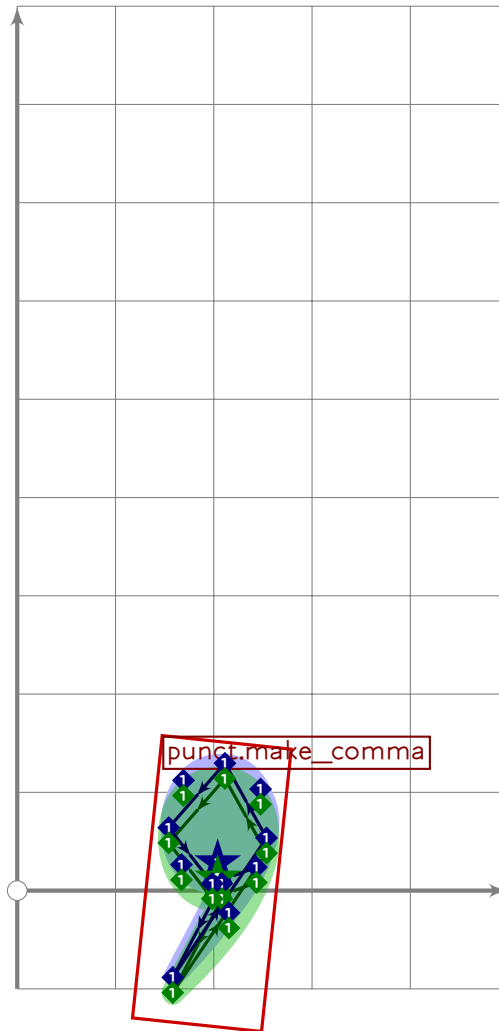
U+002B
tsuku.plus

00

```
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
```



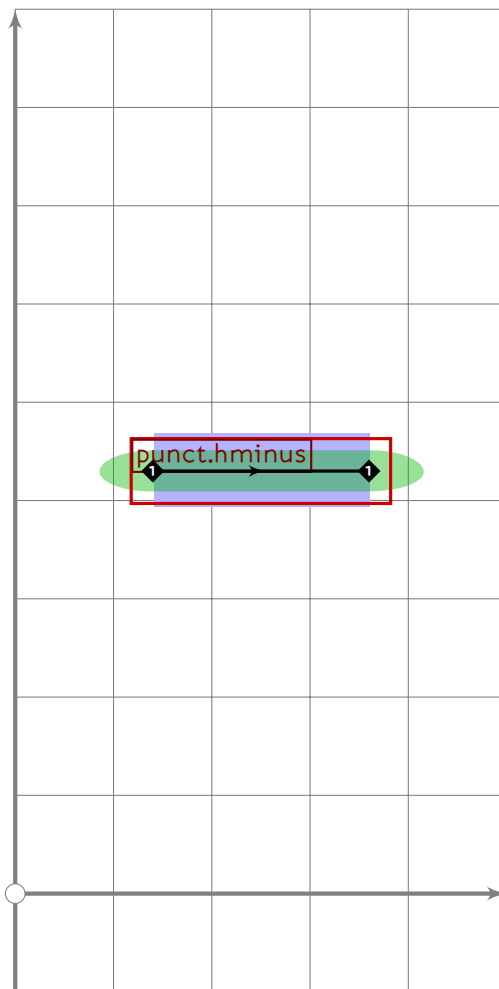
```

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;

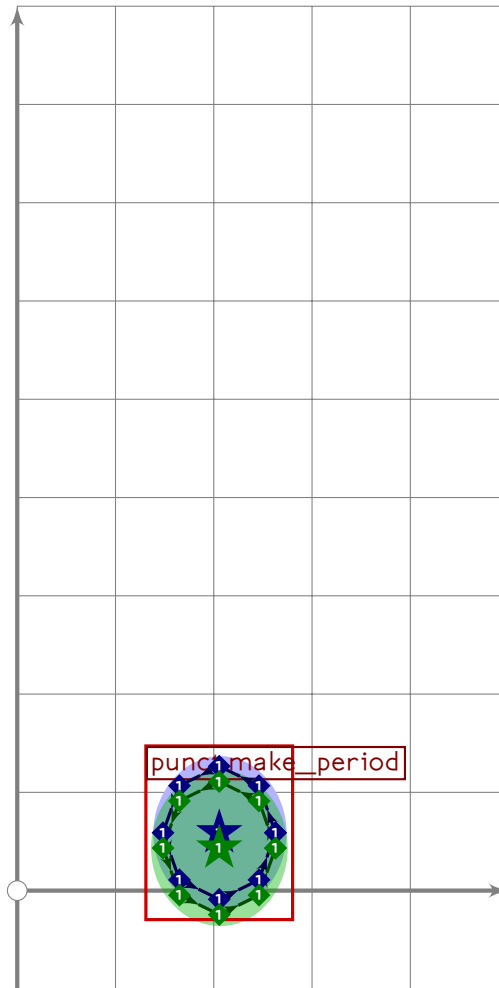
```

U+002D
tsuku.hyphen

00



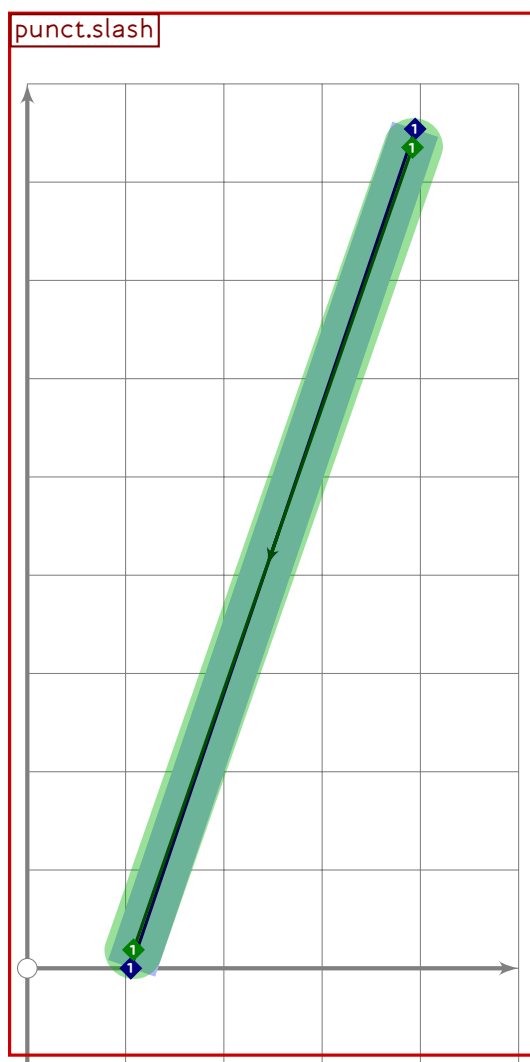
```
198 beginsuglyph("hyphen"45);
199   punct.hminus(ascii_punct_xf);
200   tsu_render;
201 endtsuglyph;
202 tsu_rescale_half;
203
```



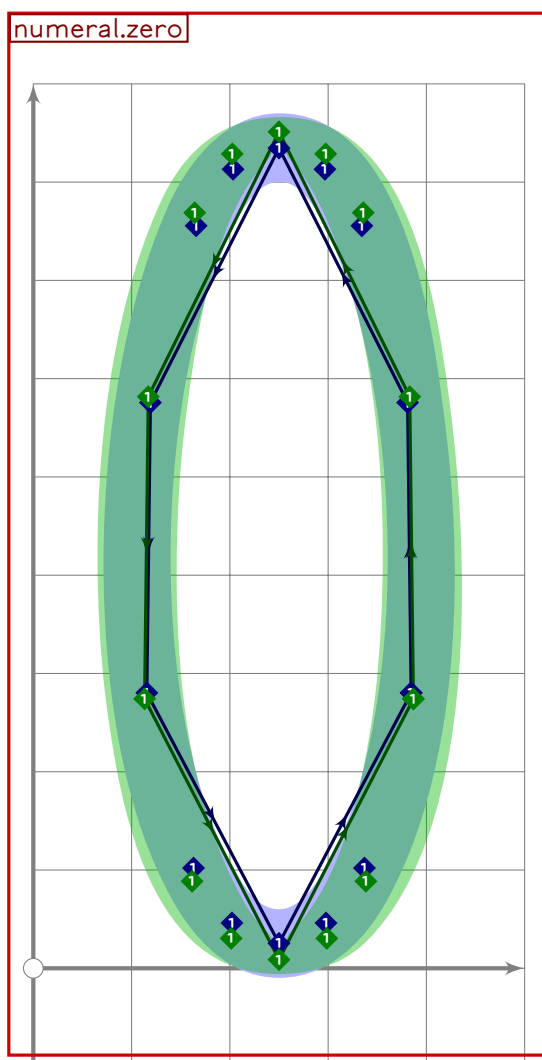
```
204 % period
205 begintsuglyph("period";46);
206 punct.make_period((380,vmetric(0.03)));
207 tsu_render;
208 endtsuglyph;
209
```

U+002F
tsuku.slash

00



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



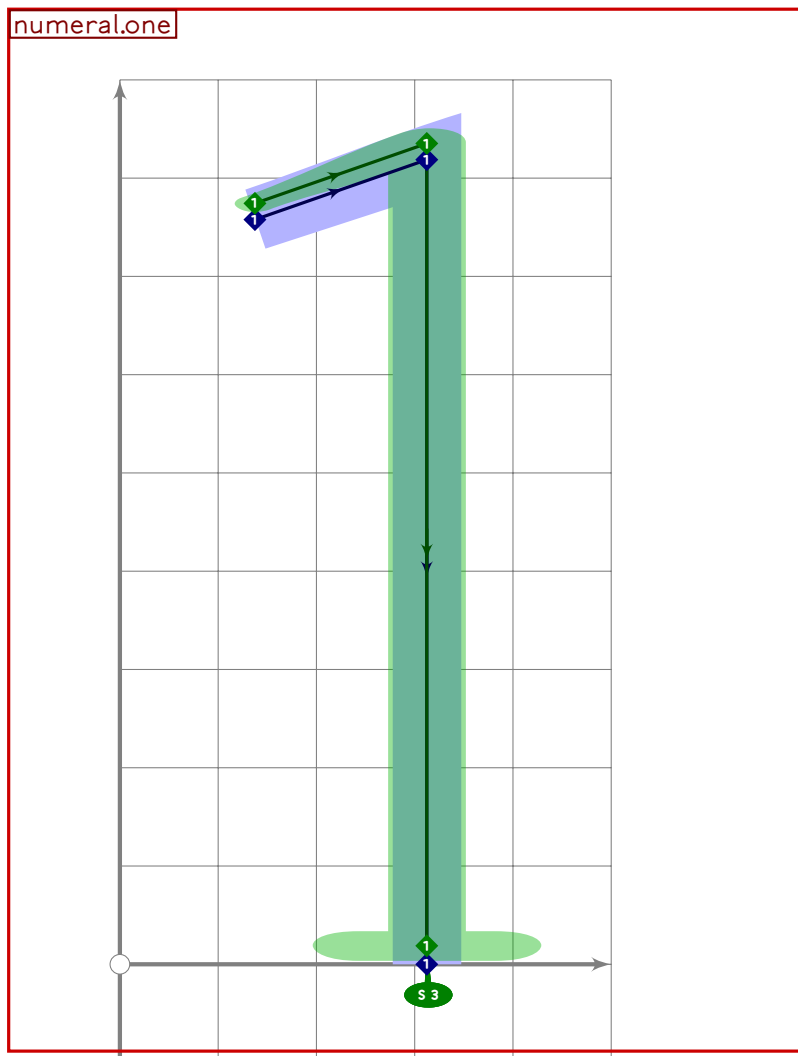
```

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

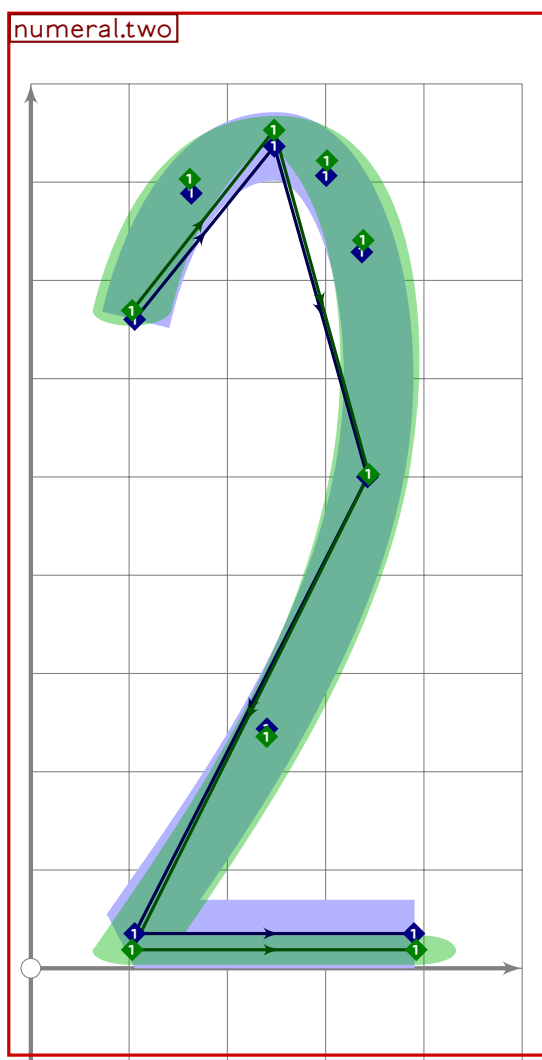
```

U+0031
tsuku.one

00



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

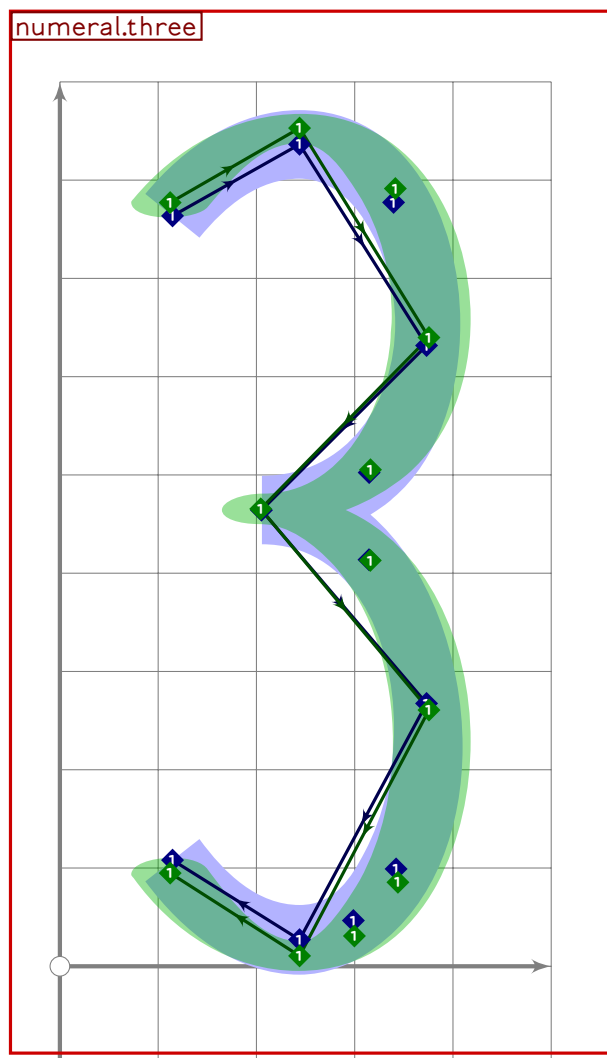
```

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

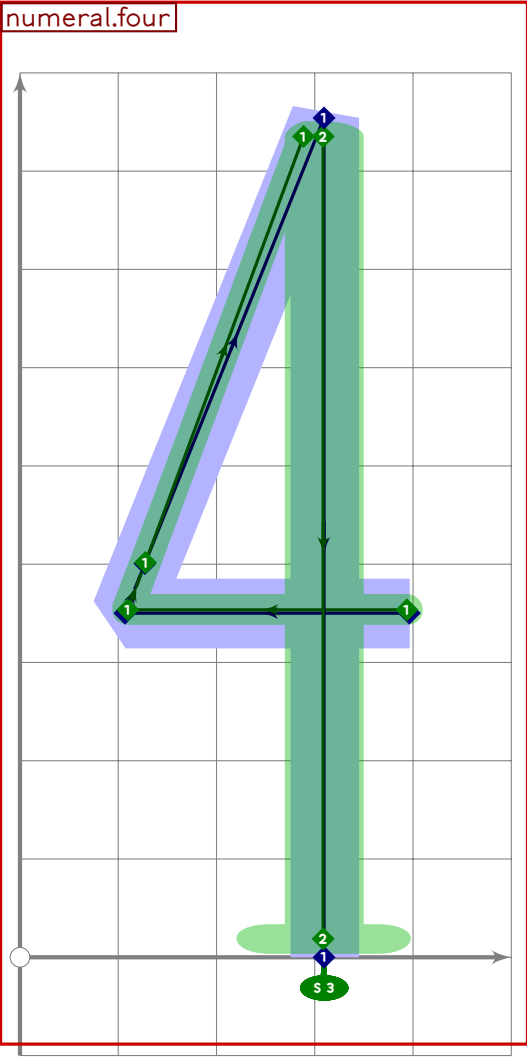
```

U+0033
tsuku.three

00



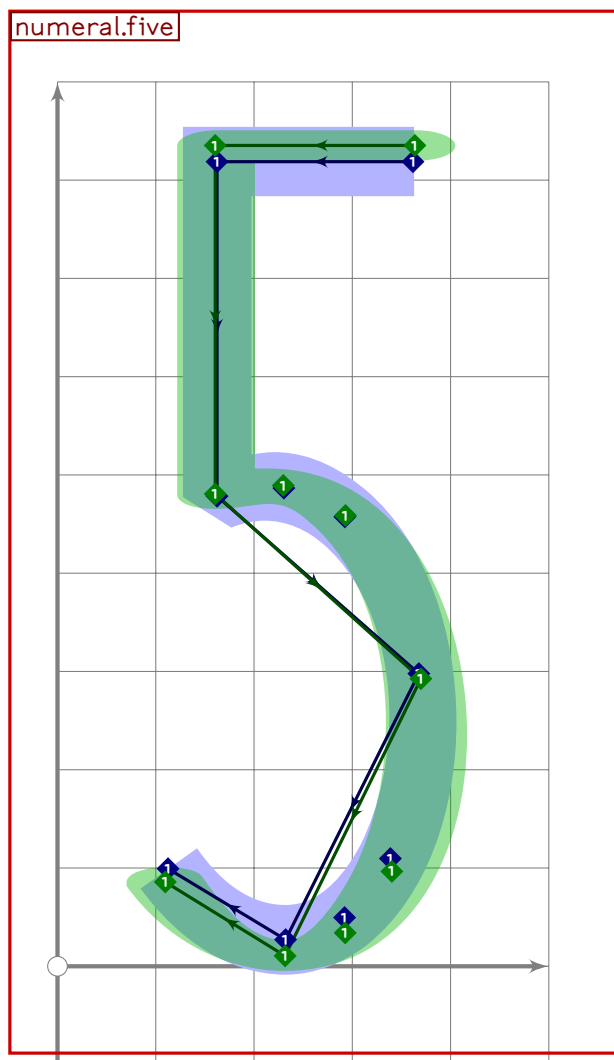
```
234 % 3
235 beginsuglyph("three",51);
236   numeral.three;
237   tsu_render;
238 endsuglyph;
239
```



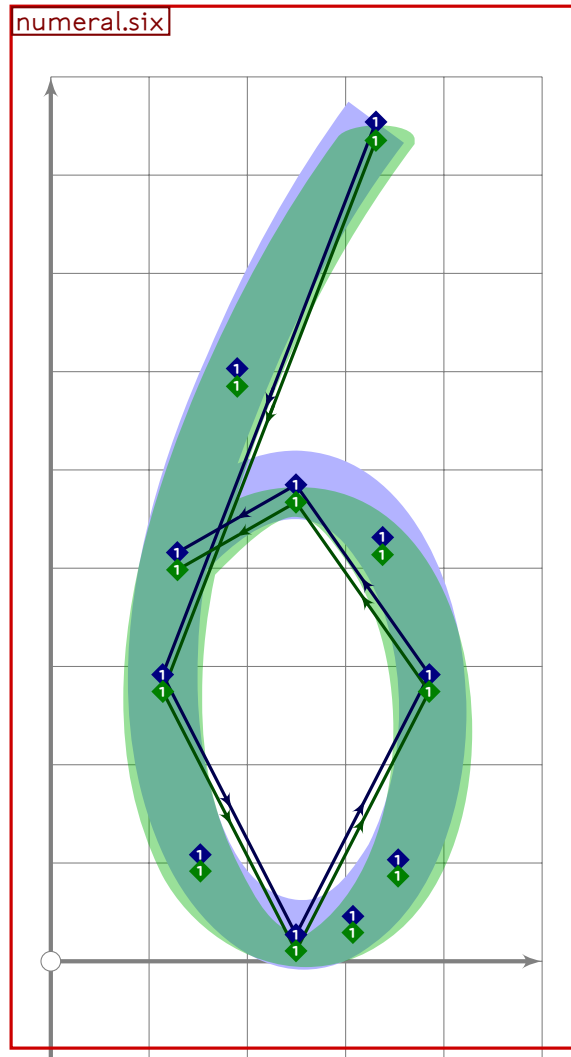
```
240 % 4
241 begintsuglyph("four",52);
242   numeral.four;
243   tsu_render;
244 endtsuglyph;
245
```

U+0035
tsuku.five

00



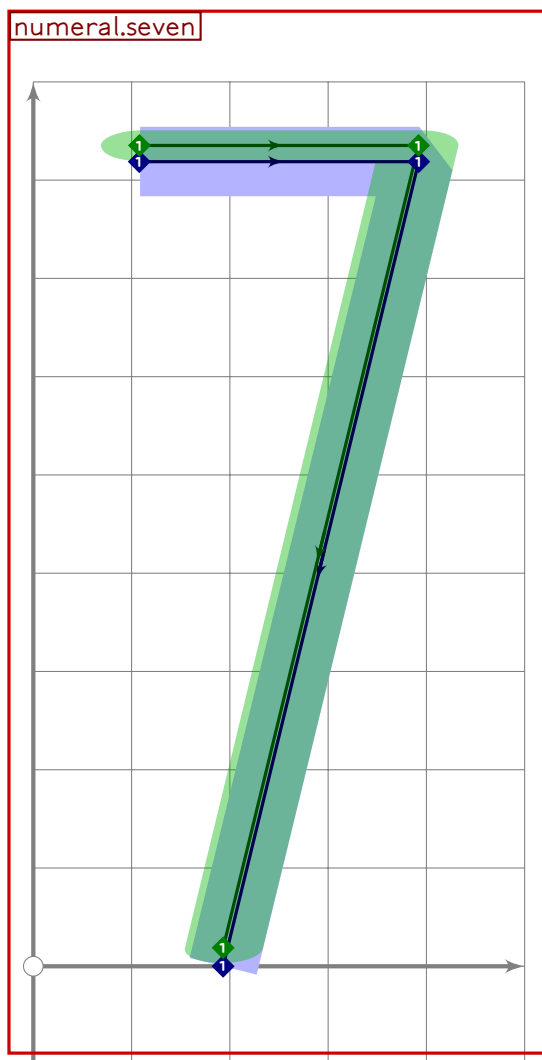
```
246 % 5
247 begintsuglyph("five";53);
248     numeral.five;
249     tsu_render;
250 endtsuglyph;
251
```



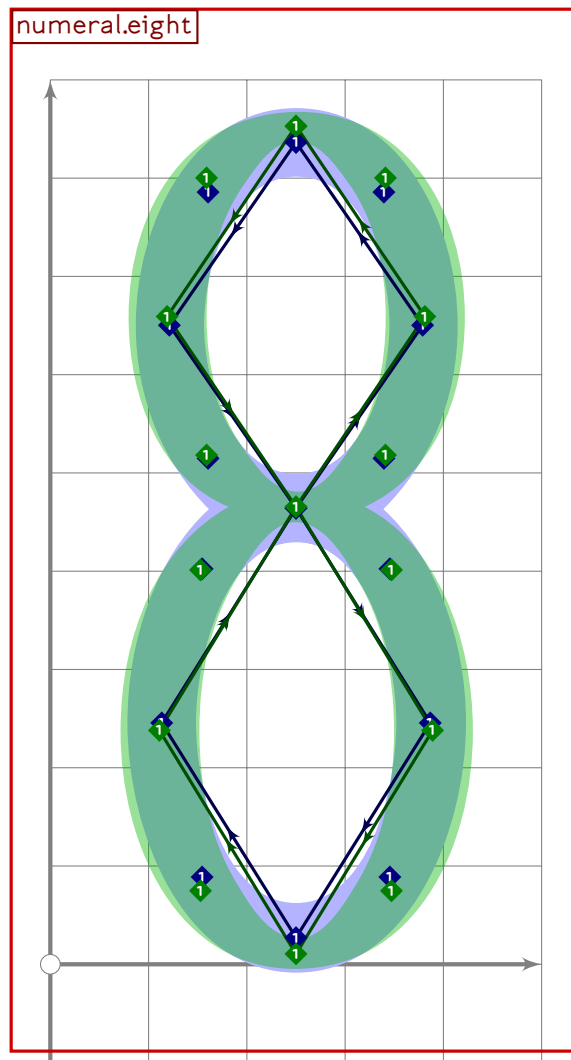
```
252 % 6
253 begintsuglyph("six",54);
254   numeral.six;
255   tsu_render;
256 endtsuglyph;
257
```

U+0037
tsuku.seven

00



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



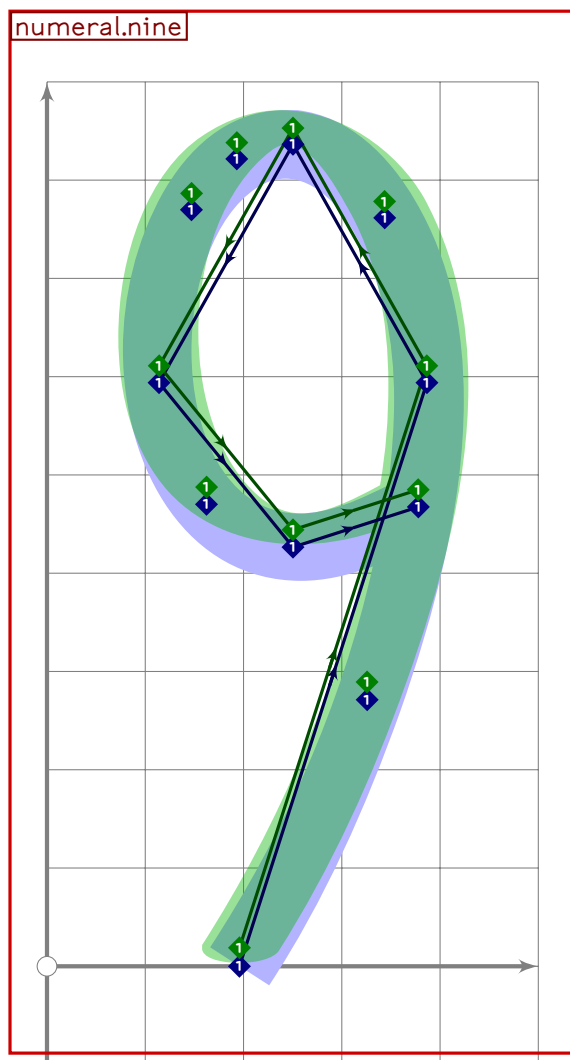
```

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

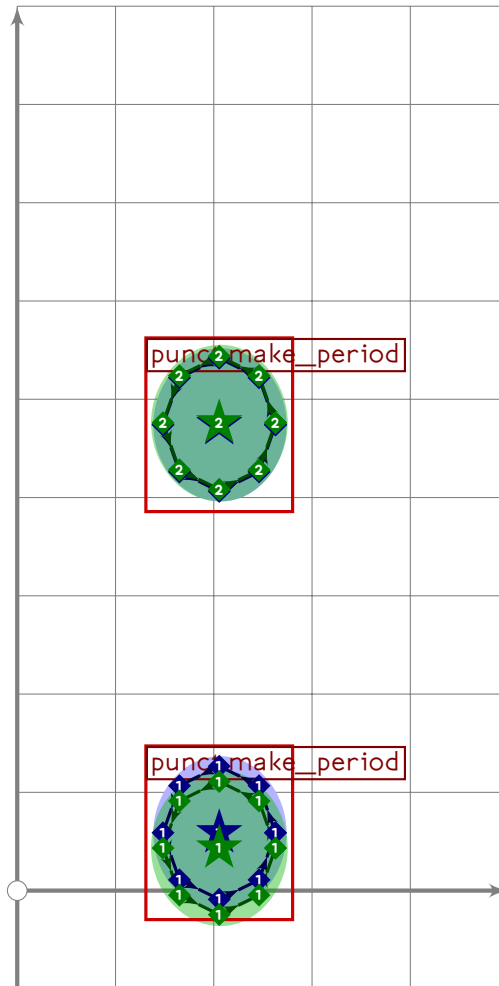
```

U+0039
tsuku.nine

00



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

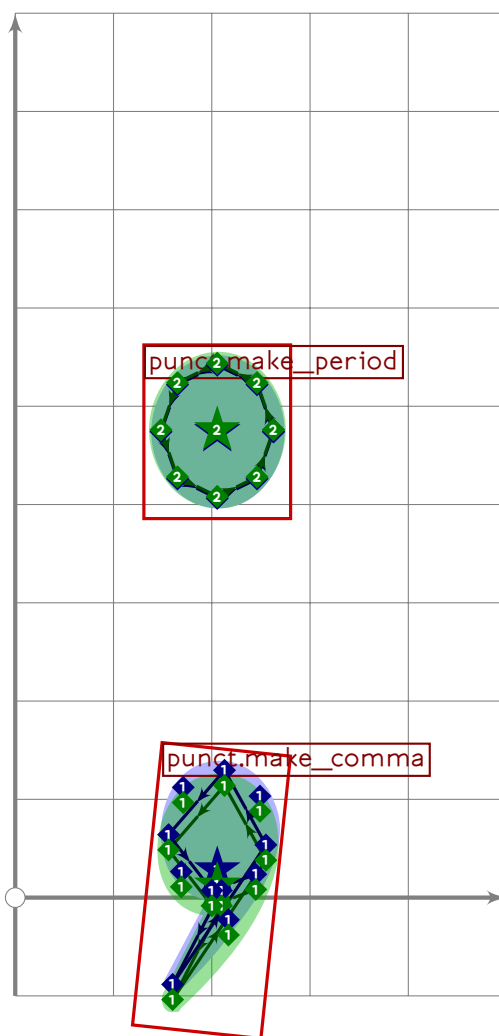
```

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

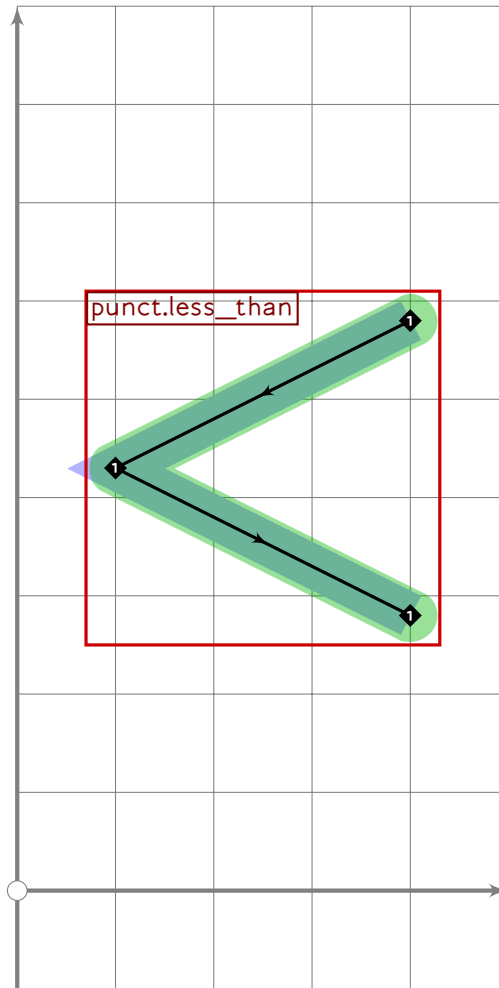
```

U+003B
tsuku.semicolon

00



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



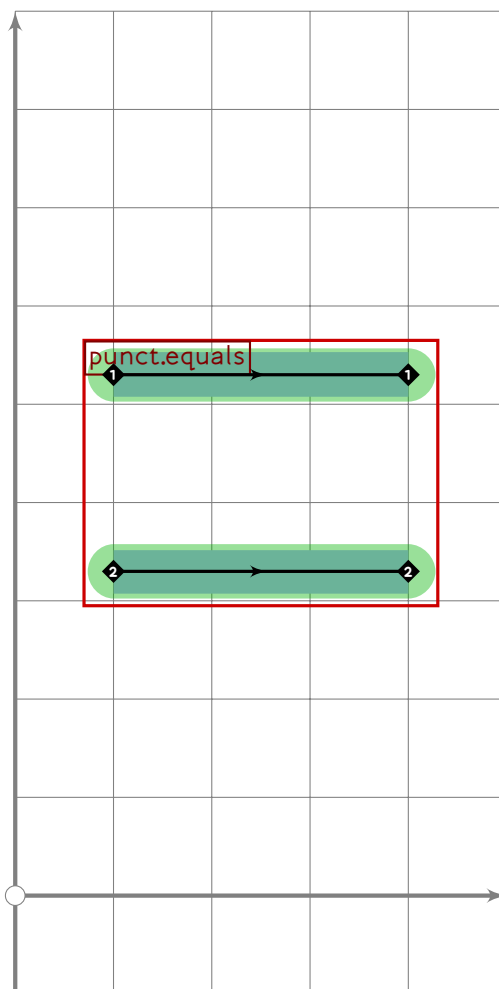
```

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

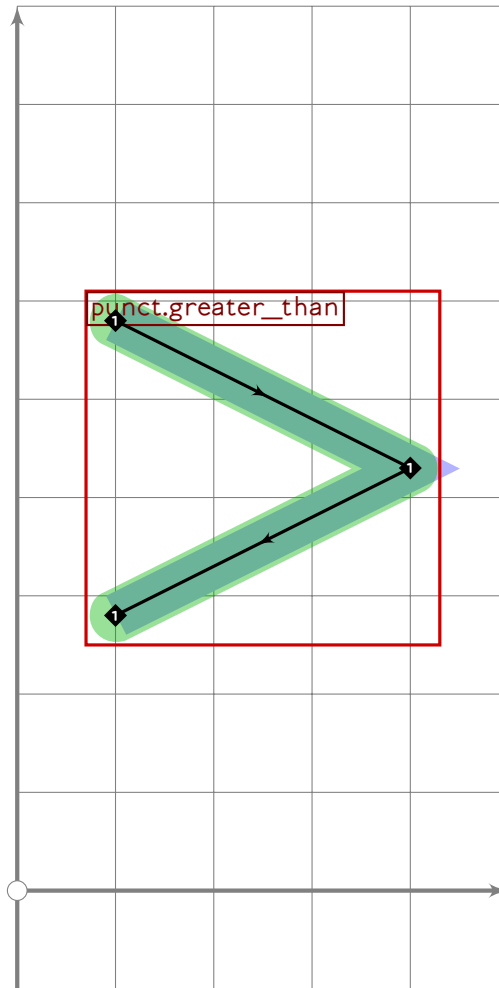
```

U+003D
tsuku.equals

00



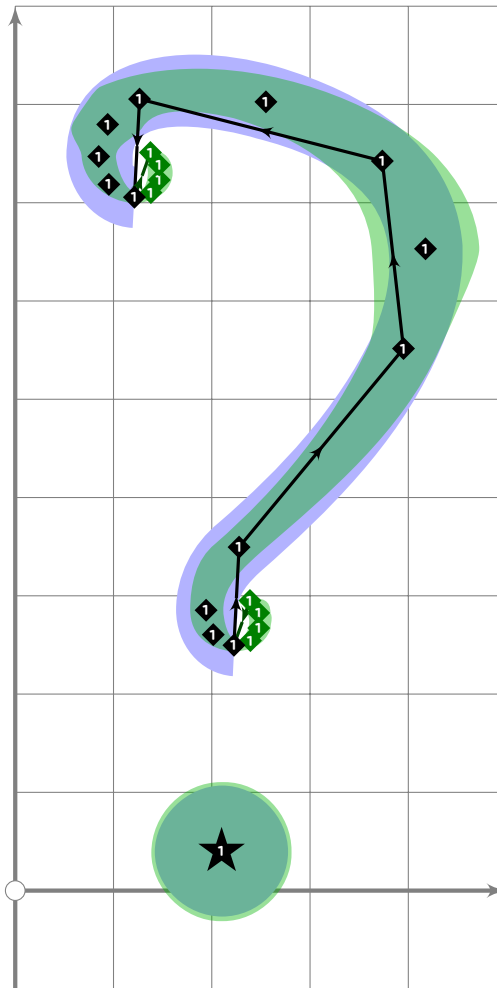
```
301 % equals
302 begintsuglyph("equals";61);
303   punct.equals
304     (identity scaled (if is_proportional: 2.1 else: 1.5 fi*tsu_punct_size)
305       shifted (250,latin_vcentre));
306   tsu_render;
307 endtsuglyph;
308
```



```

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 endsuglyph;
316

```



```

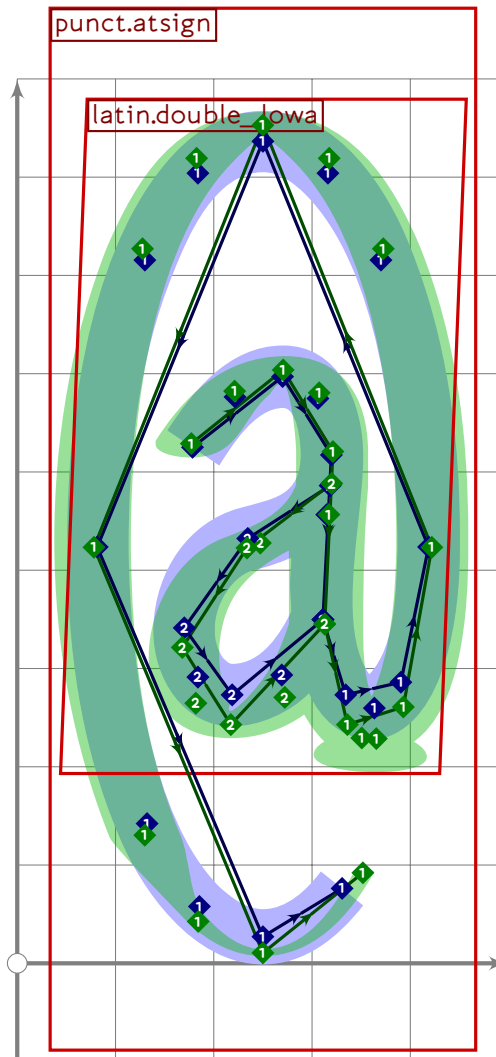
317 % question mark
318 begintsuglyph("question",63);
319     numeric r;
320     if tsu_brush_max.brpunct*100>=(tsu_punct_size*0.5):
321         push_lcblob(fullcircle
322             xscaled ((tsu_punct_size+tsu_brush_max.brpunct*100)*0.89)
323             yscaled ((tsu_punct_size+
324             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

```

```

338     tension 1.3..(210-2.5*r,750+r)..
339     (210-2.5*r,750-r){right}..
340     (210-2.5*r,750){left};
341     (0.8,0.8)-(1,1)-(2,2)-(2,2)-(2,2)-(2,2)-(1,1)-(0.8,0.8));
342     replace_strokep(0)(insert_nodes(olddp)(2.5) rotatedaround ((210,10),-3));
343
344     tsu_render;
345 endtsuglyph;
346
347 % WARNING, changing rescale setting
348 tsu_rescale_half;
349

```



```

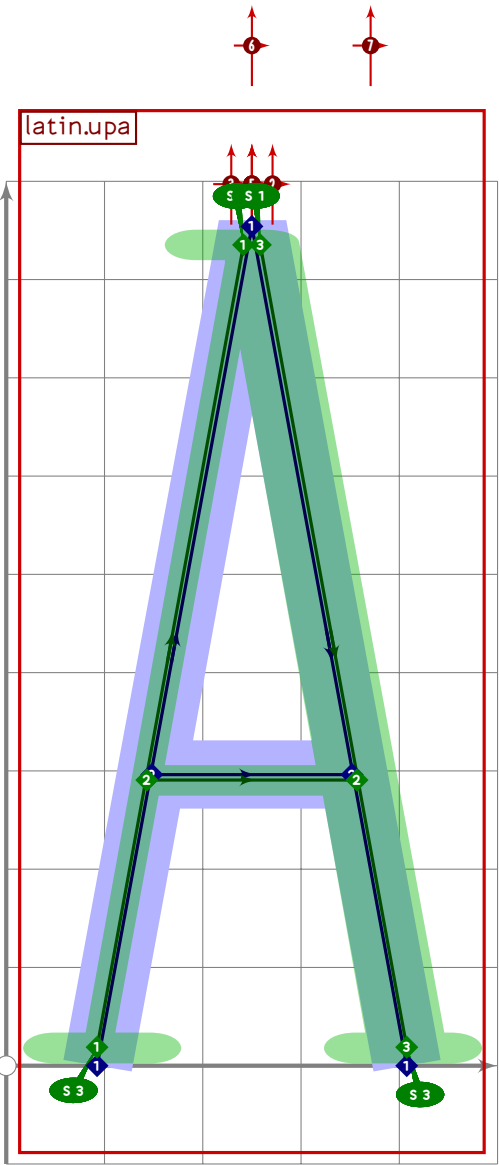
350 % commercial at
351 begintuglyph("at",64);
352     punct.at sign;
353     tsu_render;
354 endtsuglyph;
355
356 tsu_accent.up_default_anchors;

```

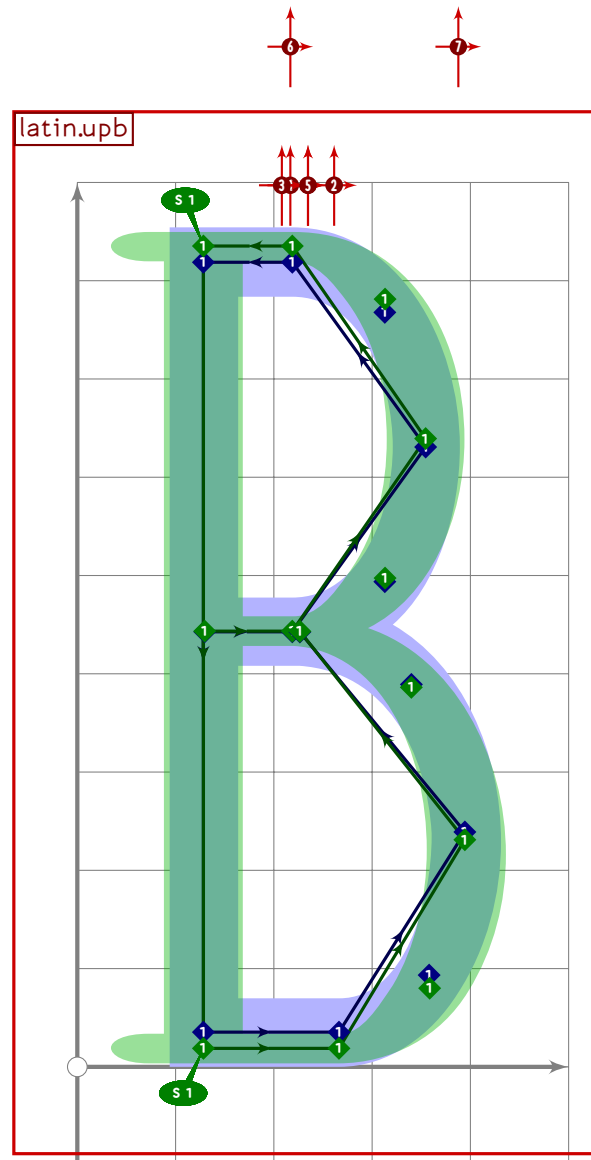
U+0041
tsuku.A

357

00



```
358 % A
359 begintsuglyph("A";65);
360 latin.upa;
361 tsu_render;
362 endtsuglyph;
363
```

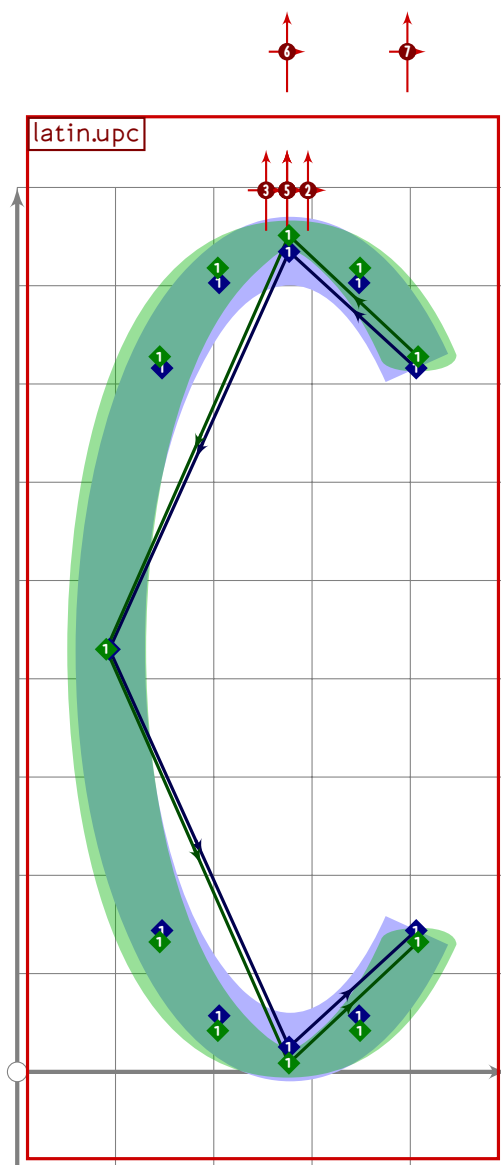
```

364 % B
365 begint Suglyph("B",66);
366 latin.upb;
367 tsu_render;
368 endtsuglyph;
369

```

U+0043
tsuku.C

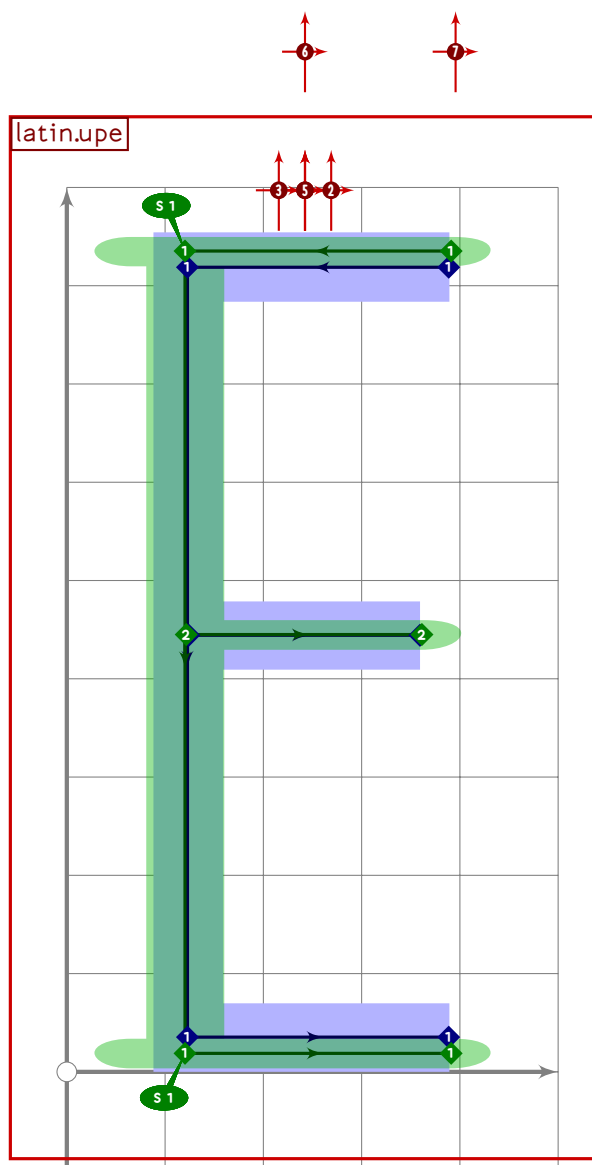
00



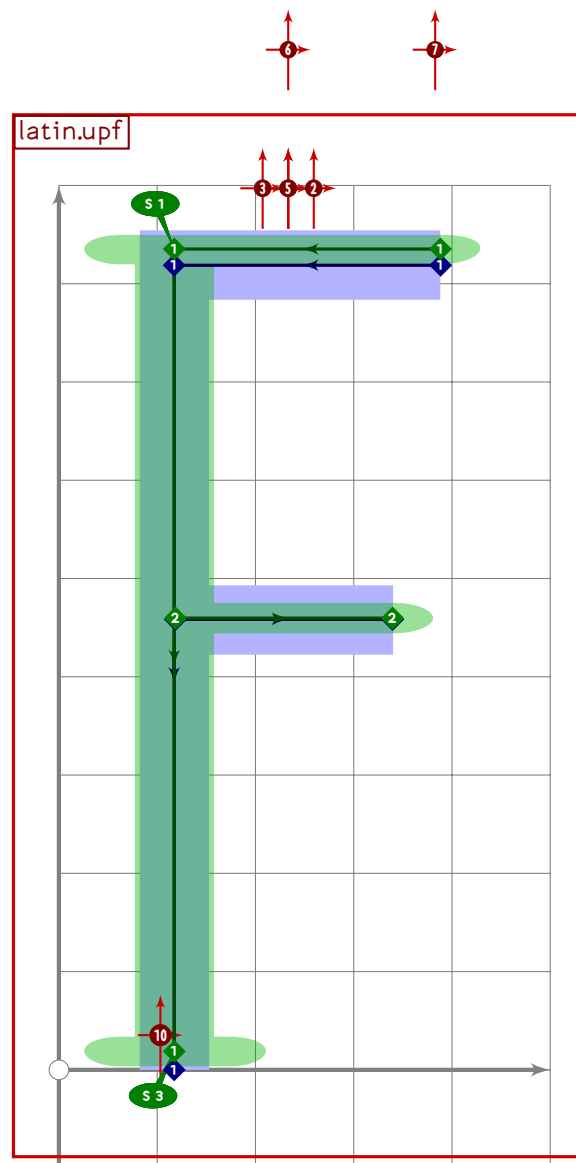
```
370 % C
371 begintsuglyph("C",67);
372 latin.upc;
373 tsu_render;
374 endtsuglyph;
375
```


U+0045
tsuku.E

00



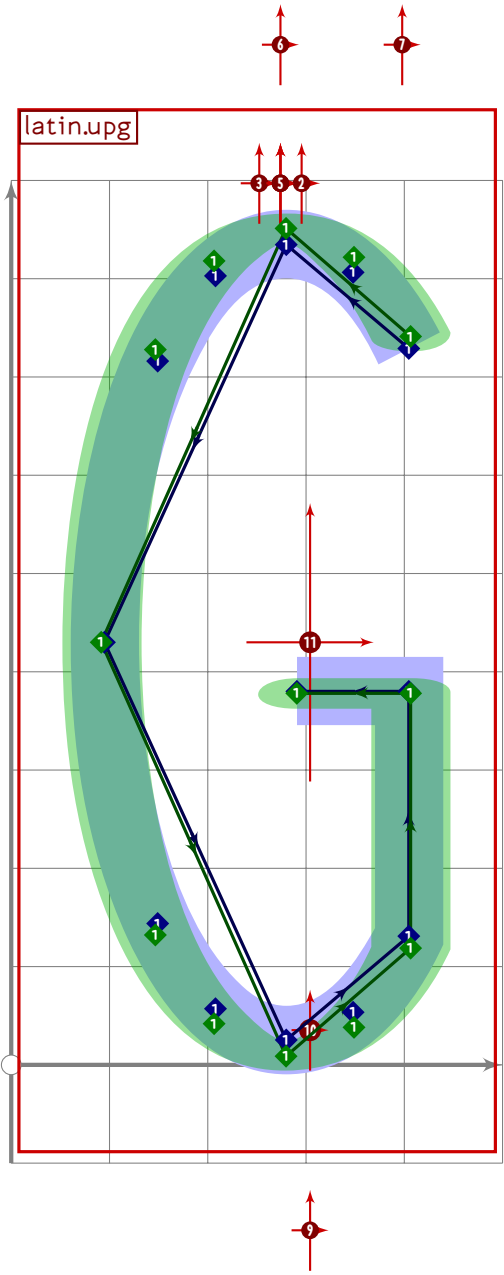
```
382 % E
383 begint Suglyph("E",69);
384   latin.upe;
385   tsu_render;
386 endtsuglyph;
387
```



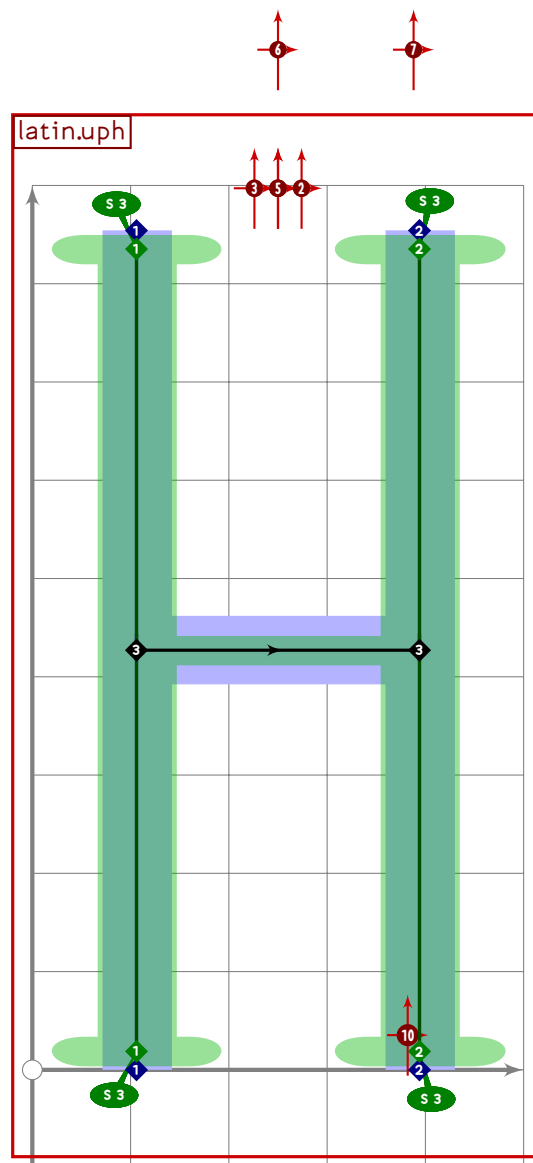
```

388 % F
389 begint Suglyph("F";70);
390 latin.upf;
391 tsu_render;
392 endtsuglyph;
393

```



```
394 % G
395 beginsuglyph("G";71);
396 latin.upg;
397 tsu__render;
398 endtsuglyph;
399
```



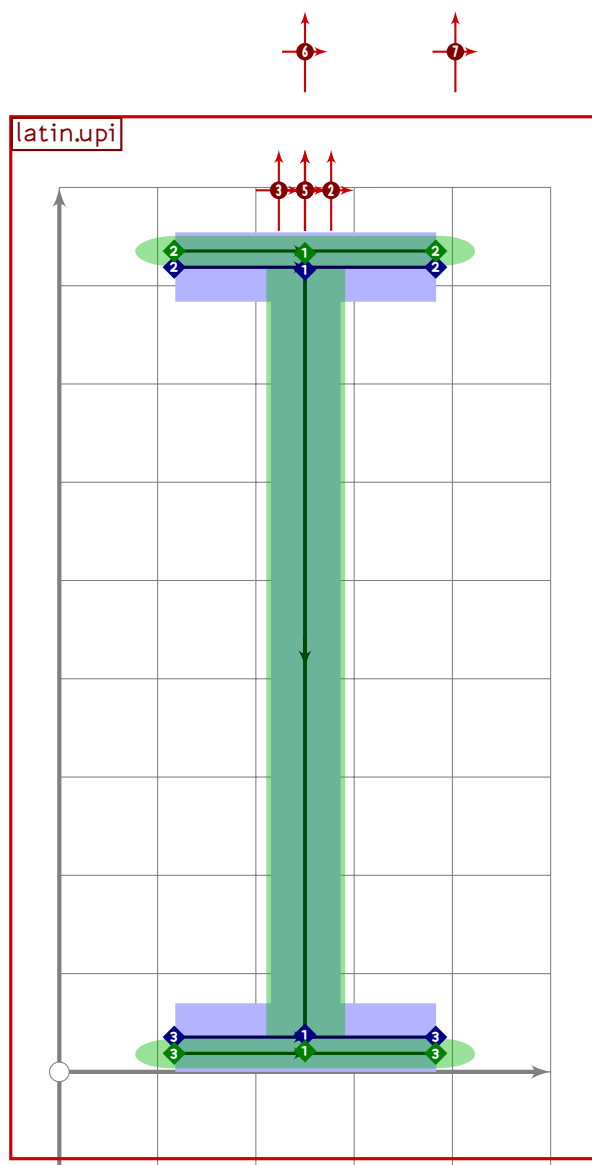
```

400 % H
401 begint Suglyph("H";72);
402   latin.uph;
403   tsu_render;
404 endtsuglyph;
405

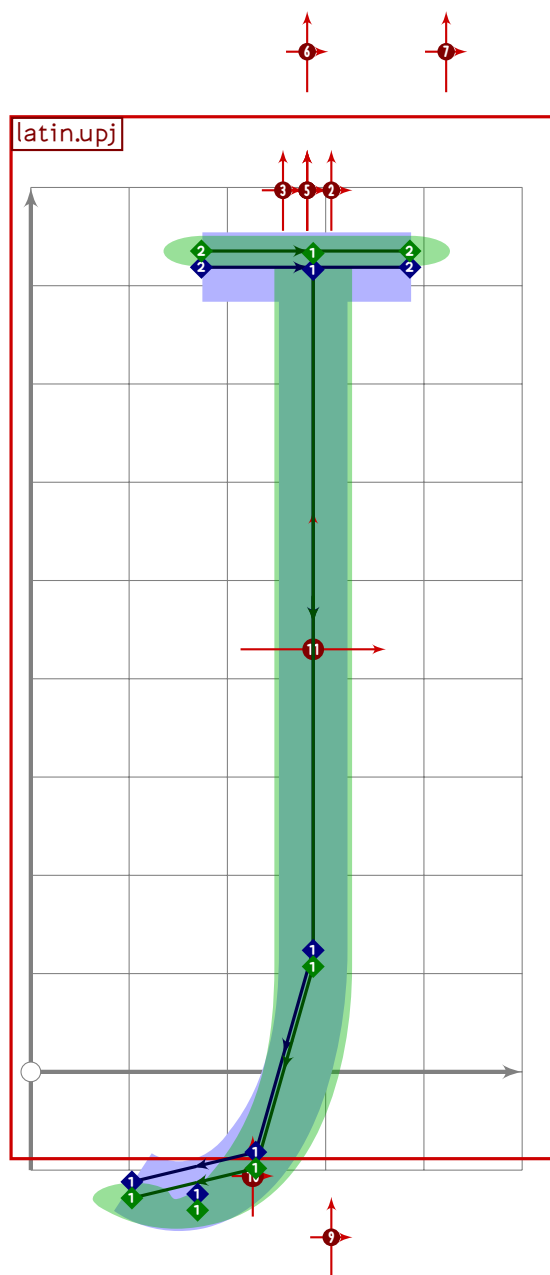
```

U+0049
tsuku.I

00



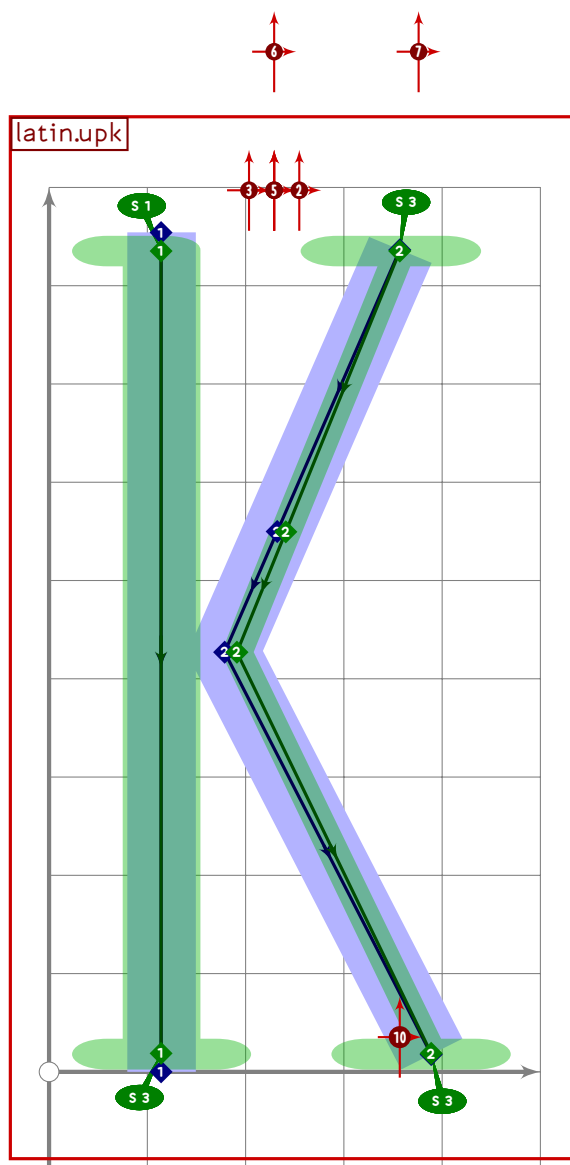
```
406 % I
407 begintsuglyph("I",73);
408   latin.upi;
409   tsu_render;
410 endtsuglyph;
411
```

```

412 % J
413 begintsuglyph("J";74);
414 latin.upj;
415 tsu__render;
416 endtsuglyph;
417

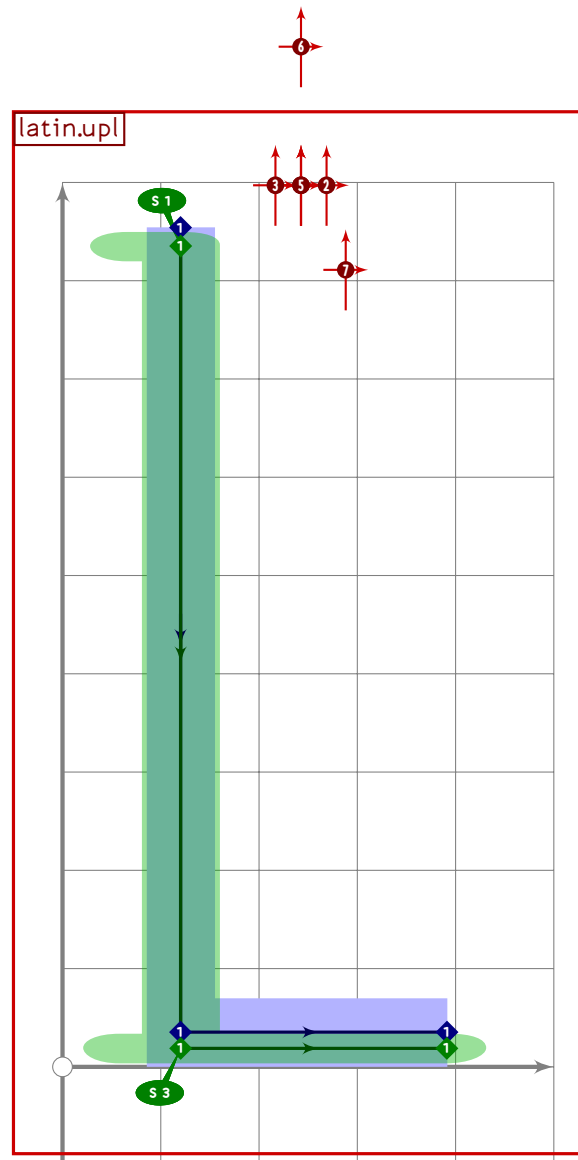
```



```

418 % K
419 begintsuglyph("K";75);
420 latin.upk;
421 tsu_render;
422 endtsuglyph;
423

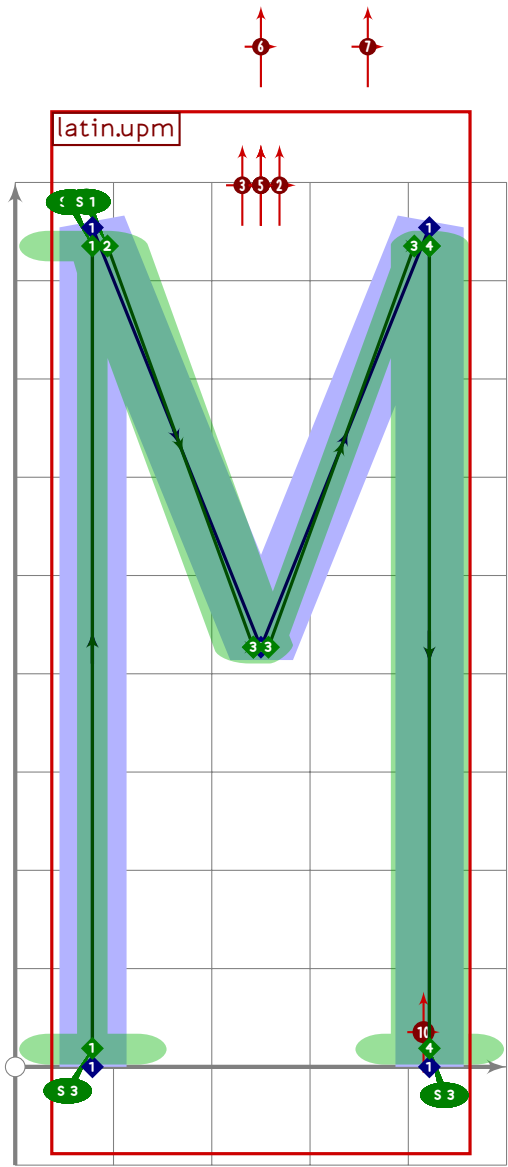
```



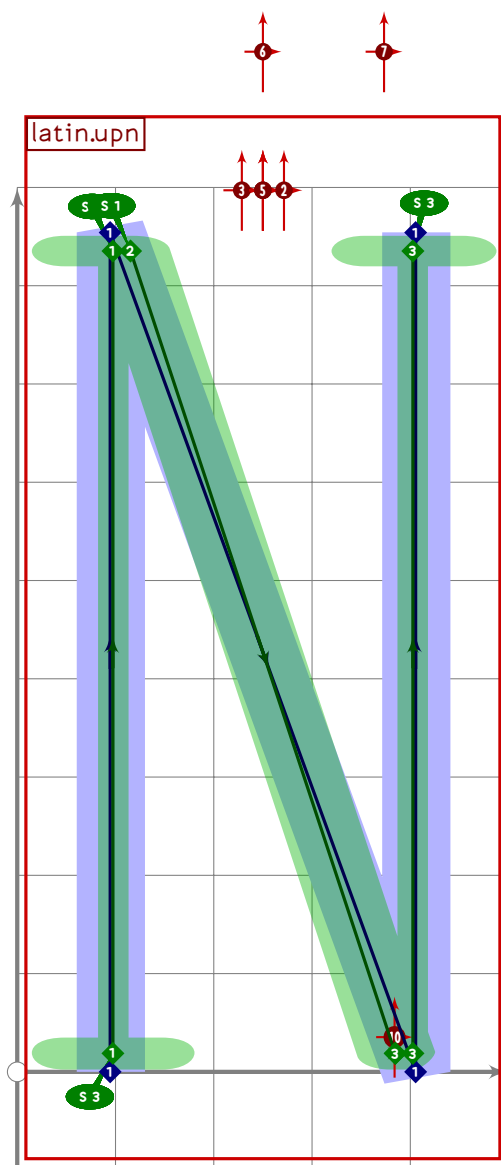
```

424 % L
425 begint Suglyph("L,76);
426 latin.upl;
427 tsu_render;
428 endtsuglyph;
429

```



```
430 % M
431 begint Suglyph("M";77);
432 latin.upm;
433 tsu_render;
434 endtsuglyph;
435
```



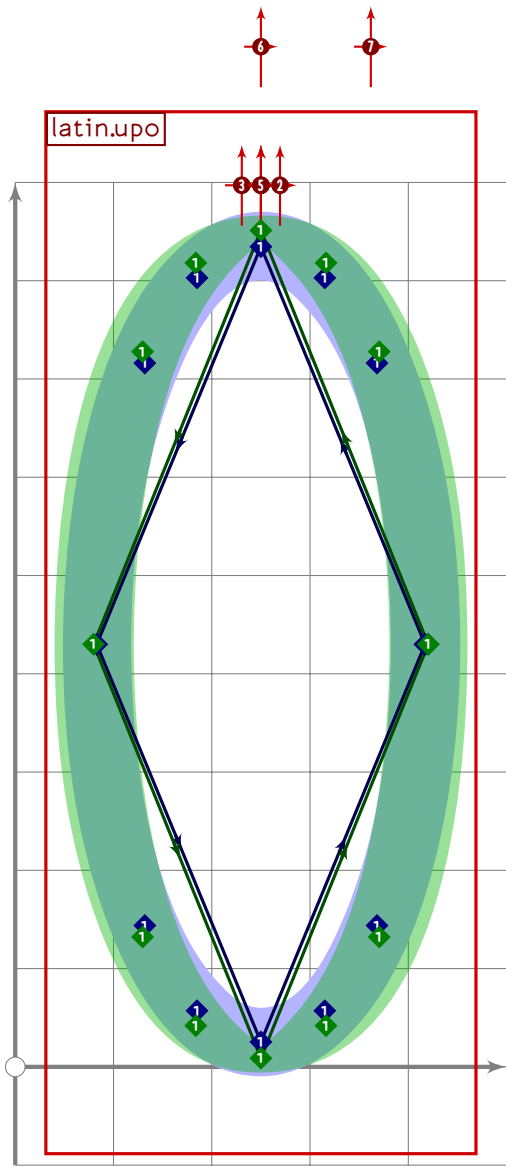
```

436 % N
437 begintsuglyph("N";78);
438 latin.upn;
439 tsu_render;
440 endtsuglyph;
441

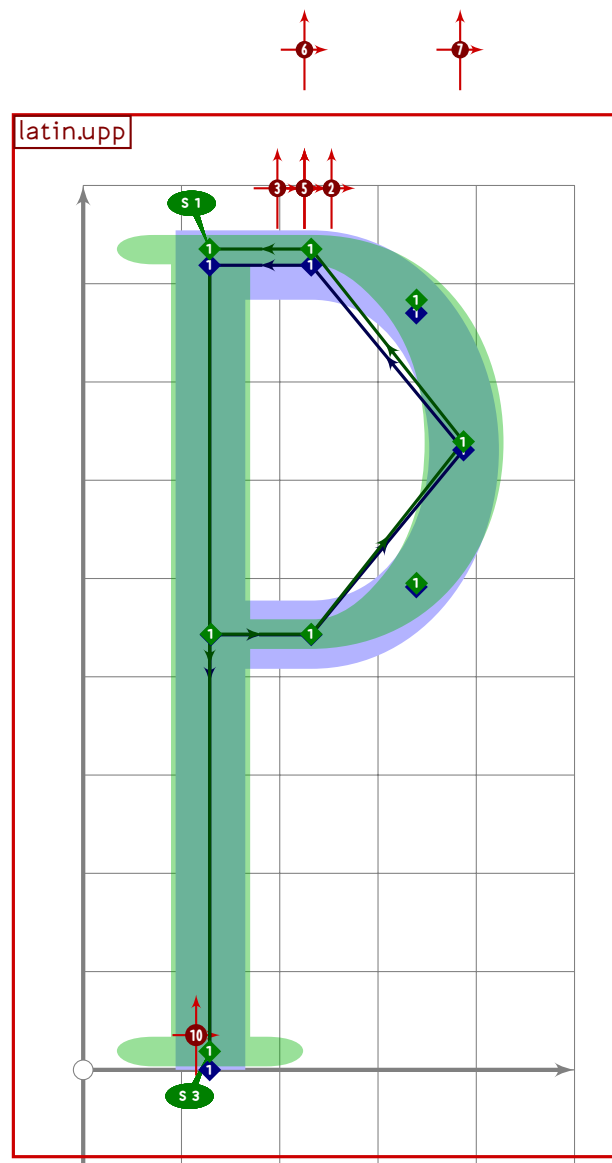
```

U+004F
tsuku.O

00



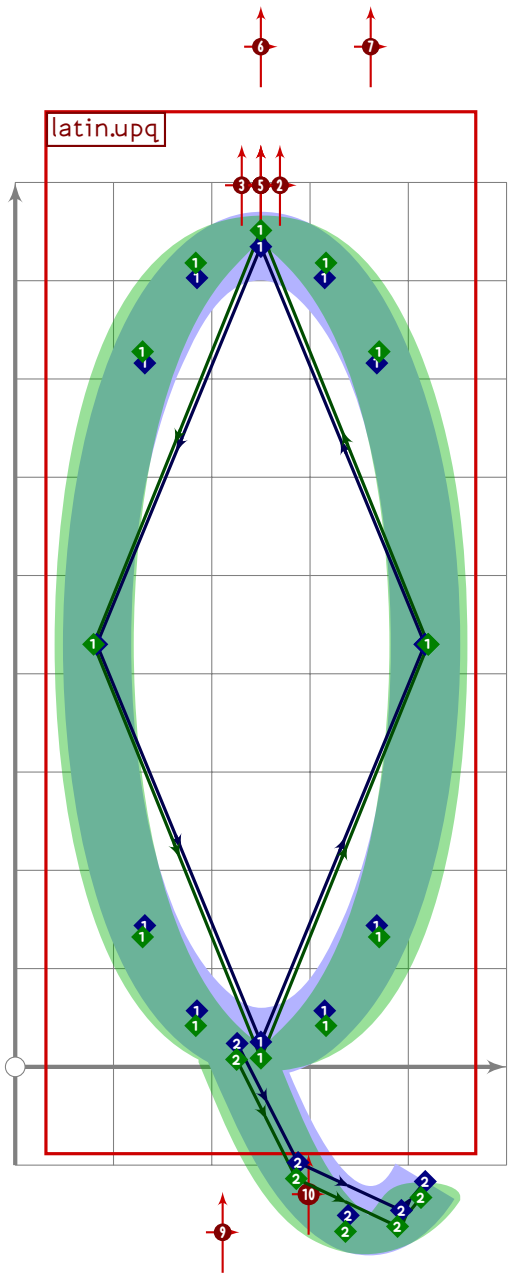
```
442 % O
443 begintsuglyph("O",79);
444 latin.upo;
445 tsu_render;
446 endtsuglyph;
447
```



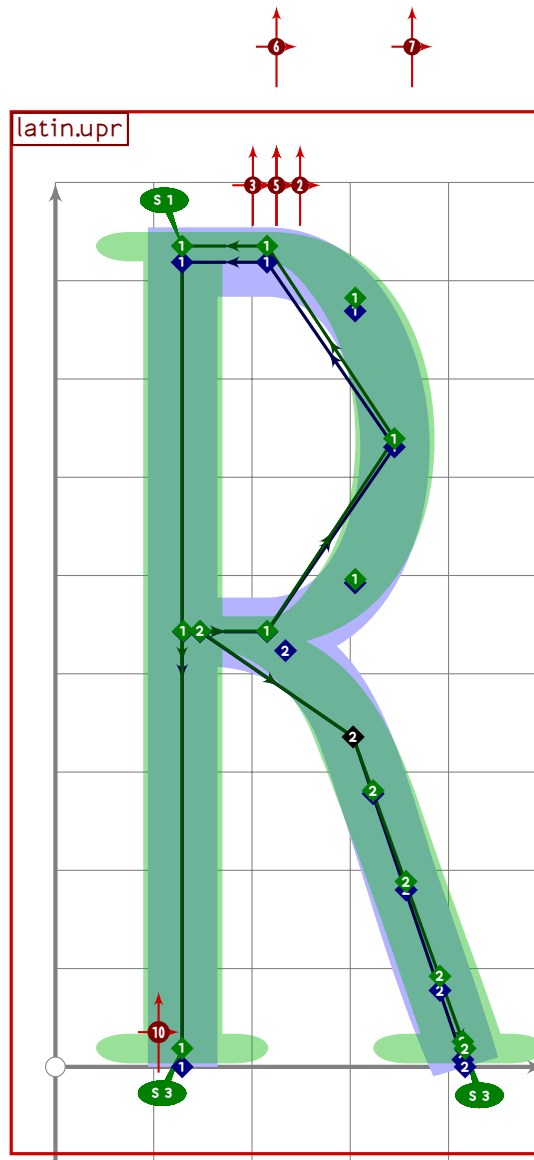
```

448 % P
449 begint Suglyph("P";80);
450 latin.upp;
451 tsu_render;
452 endtsuglyph;
453

```



```
454 % Q
455 beginsuglyph("Q";81);
456 latin.upq;
457 tsu__render;
458 endtsuglyph;
459
```

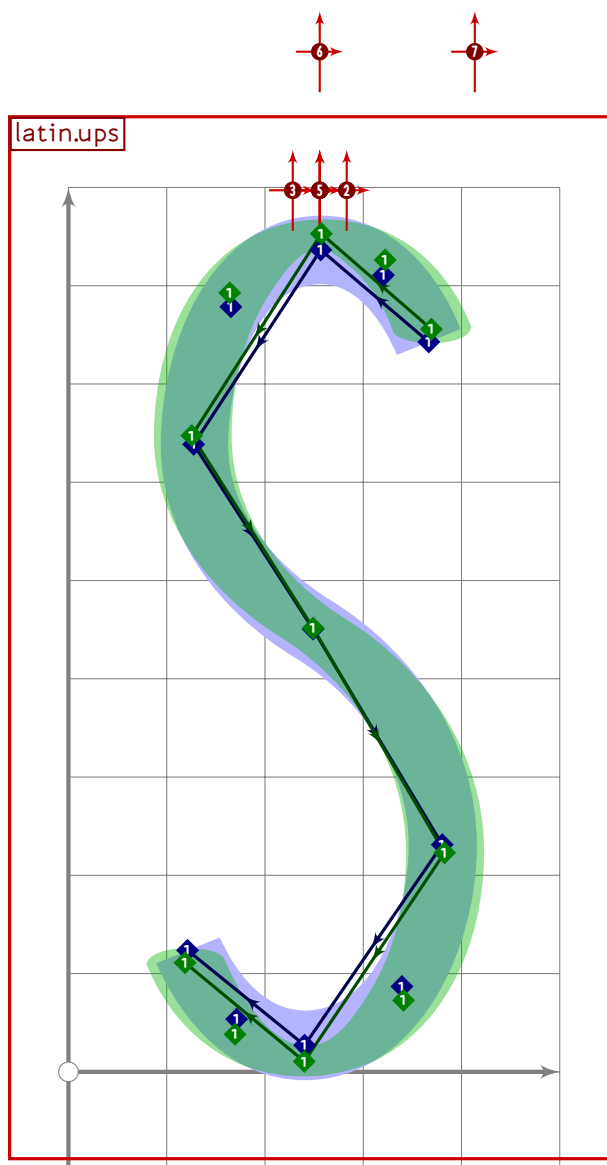
```

460 % R
461 begintsuglyph("R";82);
462   latin.upr;
463   tsu_render;
464 endtsuglyph;
465

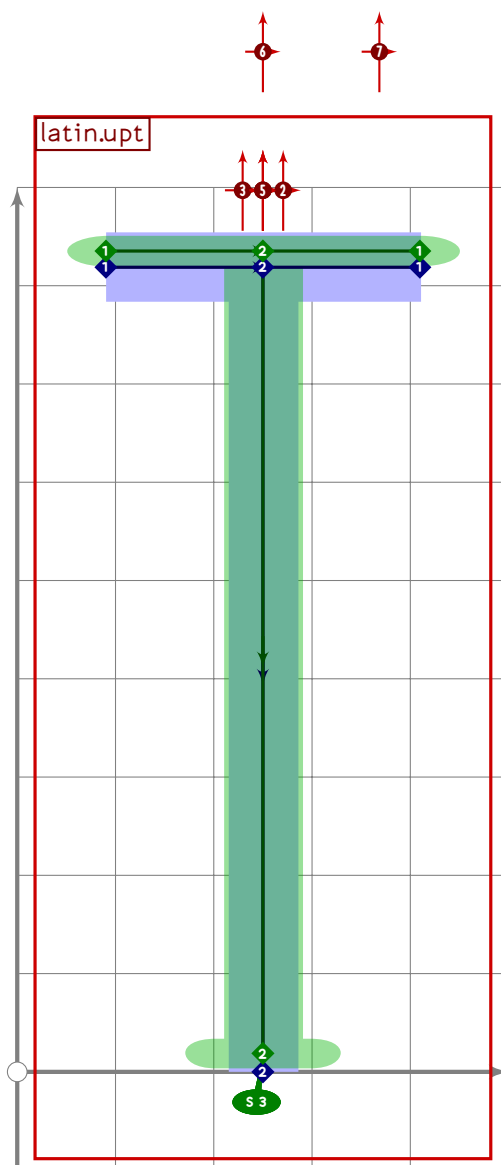
```

U+0053
tsuku.S

00



```
466 % S
467 begintsuglyph("S";83);
468   latin.ups;
469   tsu_render;
470 endtsuglyph;
471
```



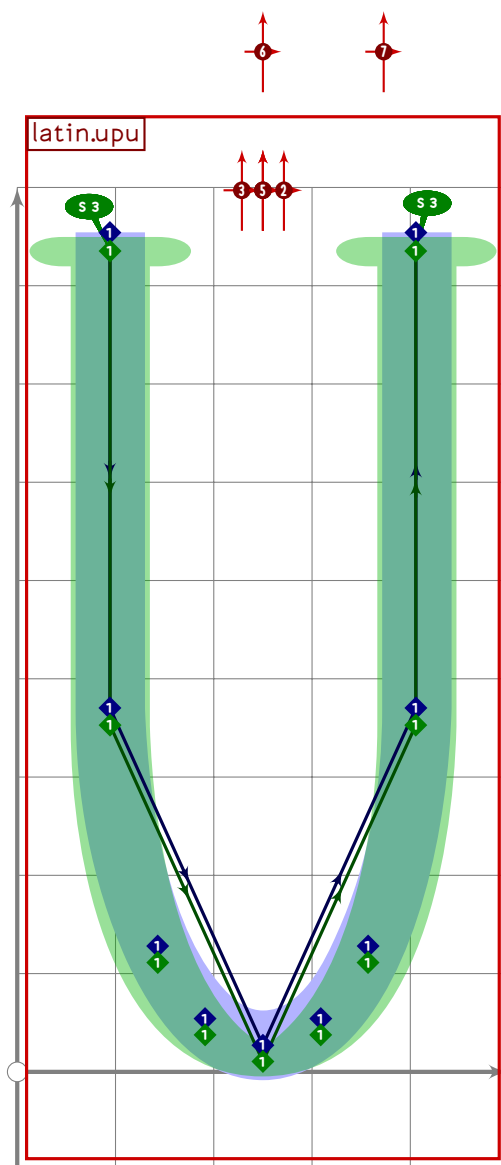
```

472 % T
473 begintsuglyph("T",84);
474   latin.upt;
475   tsu_render;
476 endtsuglyph;
477

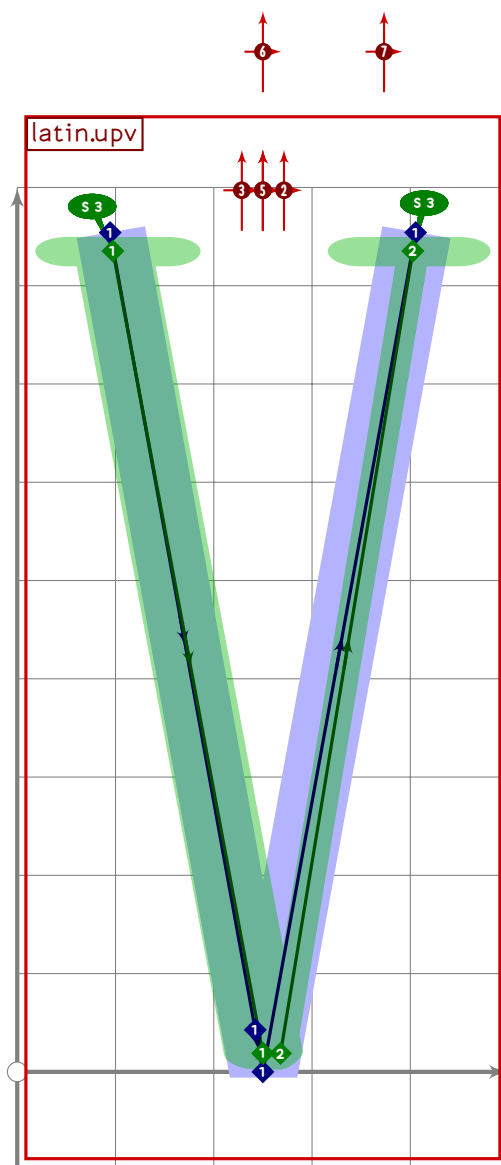
```

U+0055
tsuku.U

00



```
478 % U
479 begintsuglyph("U";85);
480 latin.upu;
481 tsu_render;
482 endtsuglyph;
483
```



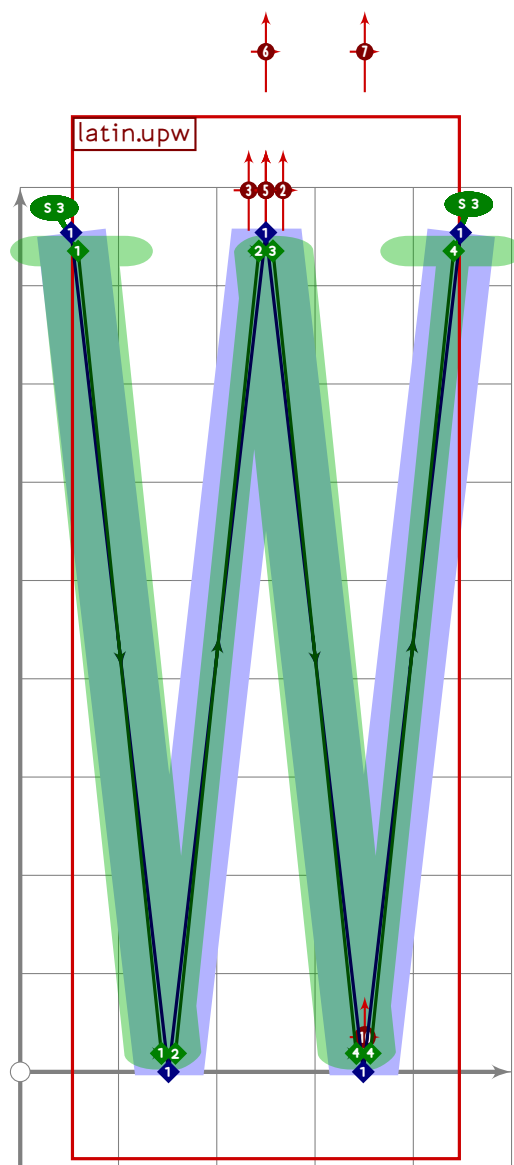
```

484 % V
485 begint Suglyph("V",86);
486 latin.upv;
487 tsu_render;
488 endtsuglyph;
489

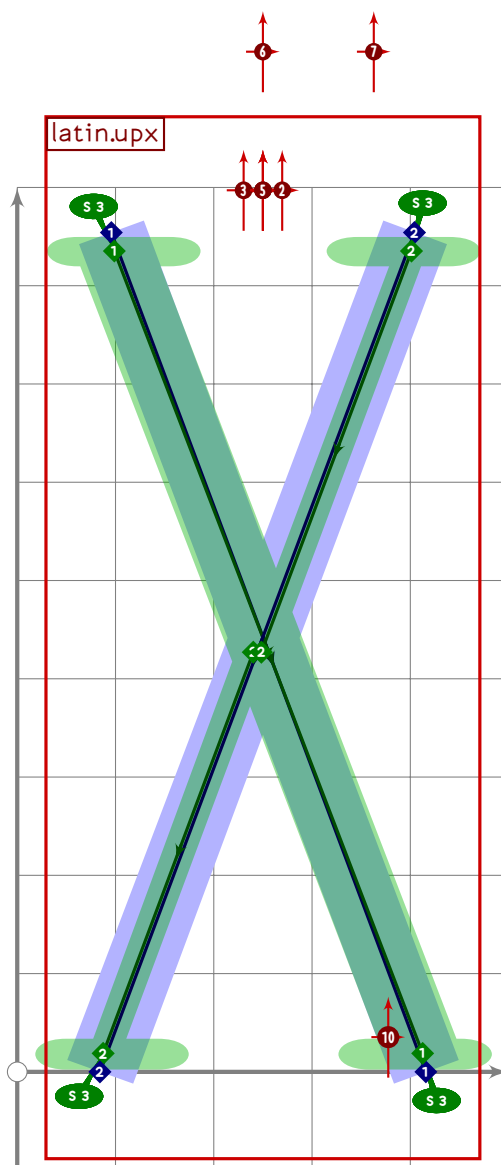
```

U+0057
tsuku.W

00



```
490 % W
491 begint Suglyph("W";87);
492   latin.upw;
493   tsu_render;
494 endtsuglyph;
495
```



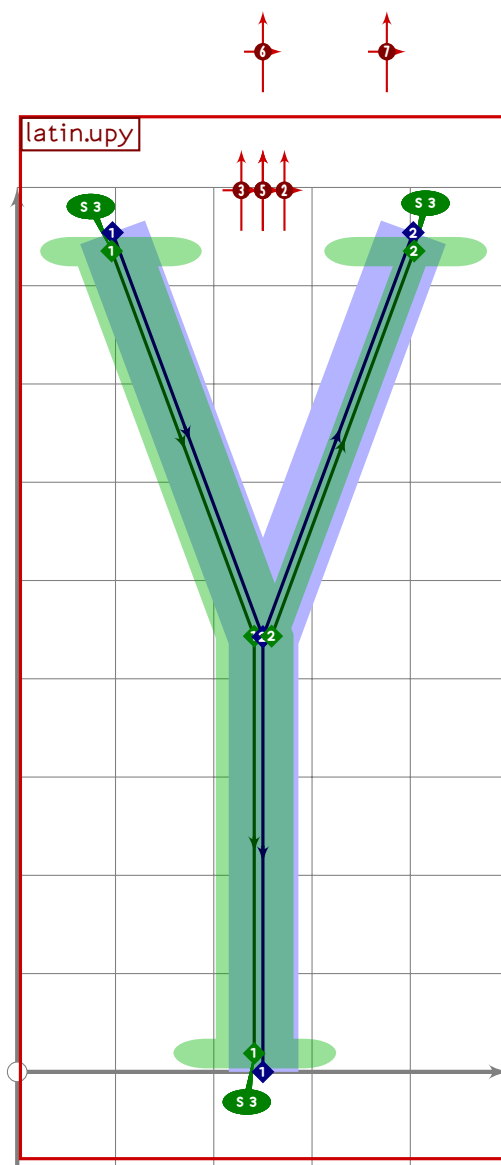
```

496 % X
497 begint Suglyph("X",88);
498 latin.upx;
499 tsu_render;
500 endtsuglyph;
501

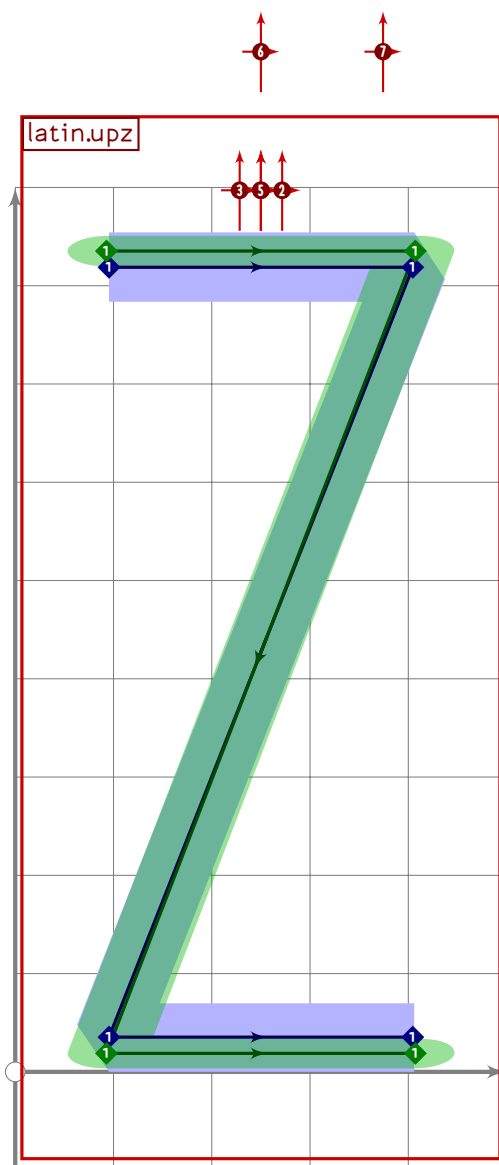
```

U+0059
tsuku.Y

00



```
502 % Y
503 begintsuglyph("Y";89);
504 latin.upy;
505 tsu_render;
506 endtsuglyph;
507
```

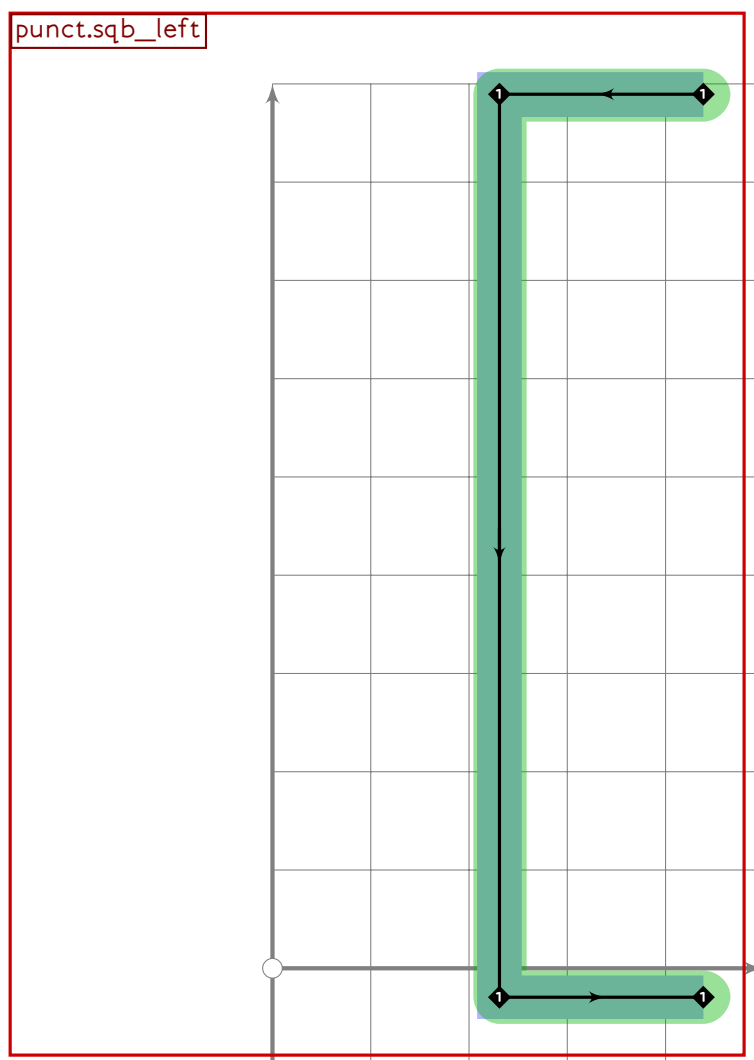
```

508 % Z
509 begintsuglyph("Z";90);
510 latin.upz;
511 tsu_render;
512 endtsuglyph;
513
514 tsu_accent.clear_default_anchors;
515

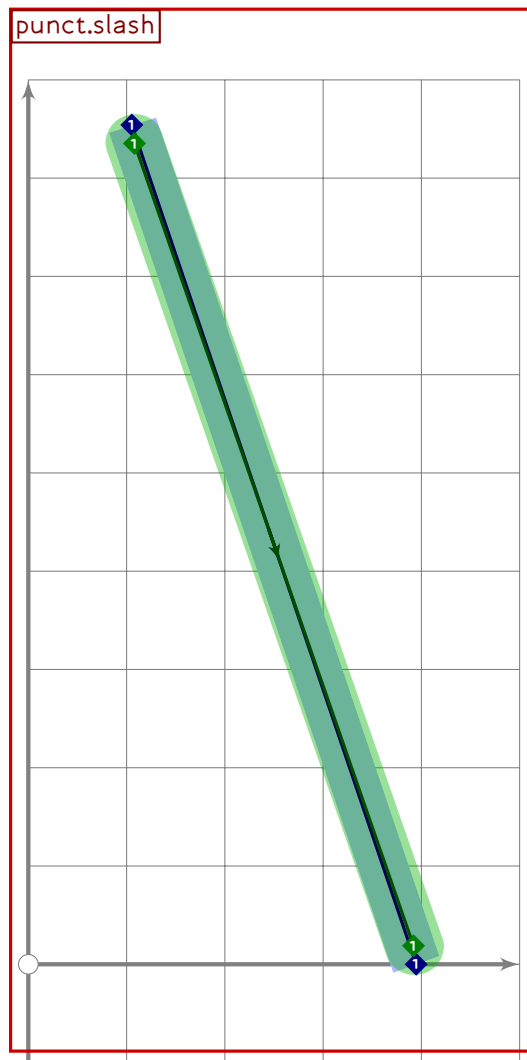
```

U+005B
tsuku.bracketleft

00



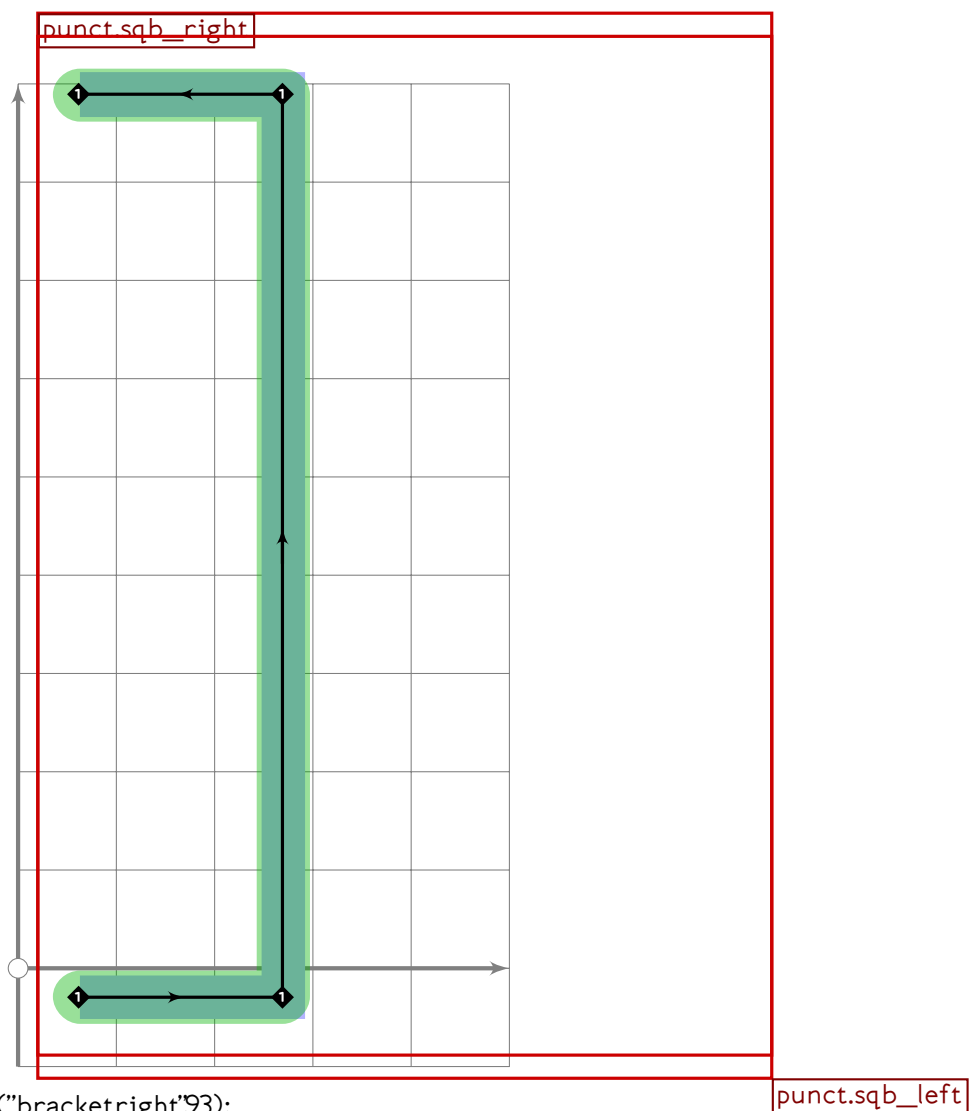
```
516 % left and right square brackets, backslash between
517 beginsuglyph("bracketleft";91);
518   punct.sqb_left;
519   tsu_render;
520 endsuglyph;
```



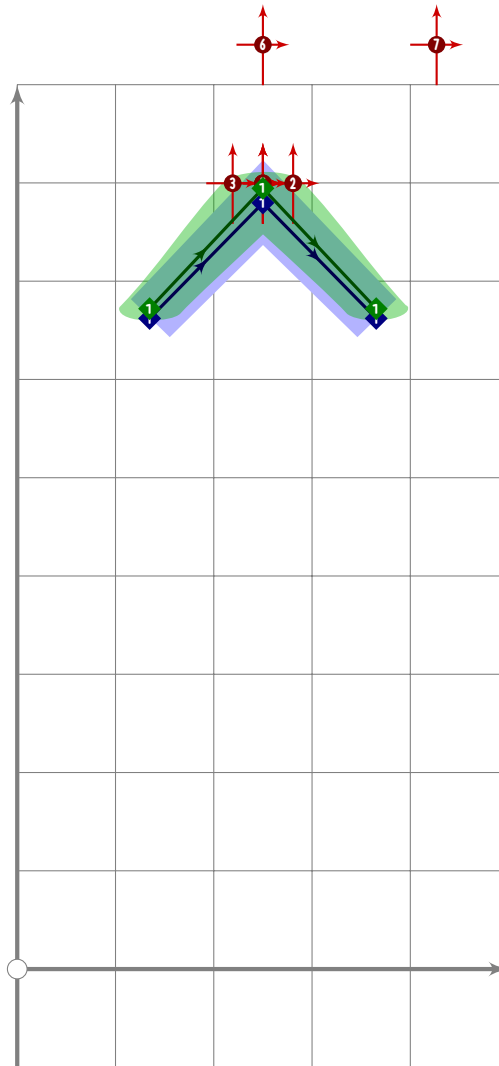
```
521 % backslash
522 begint Suglyph("backslash";92);
523   punct.slash;
524   replace_strokep(0)(oldp reflectedabout (centre_pt,(centre_pt+down)));
525   tsu_render;
526 endtsuglyph;
```

U+005D
tsuku.bracketright

00



```
527 begintsuglyph("bracketright";93);
528   punct.sqb_right;
529   tsu_render;
530 endsuglyph;
531
```



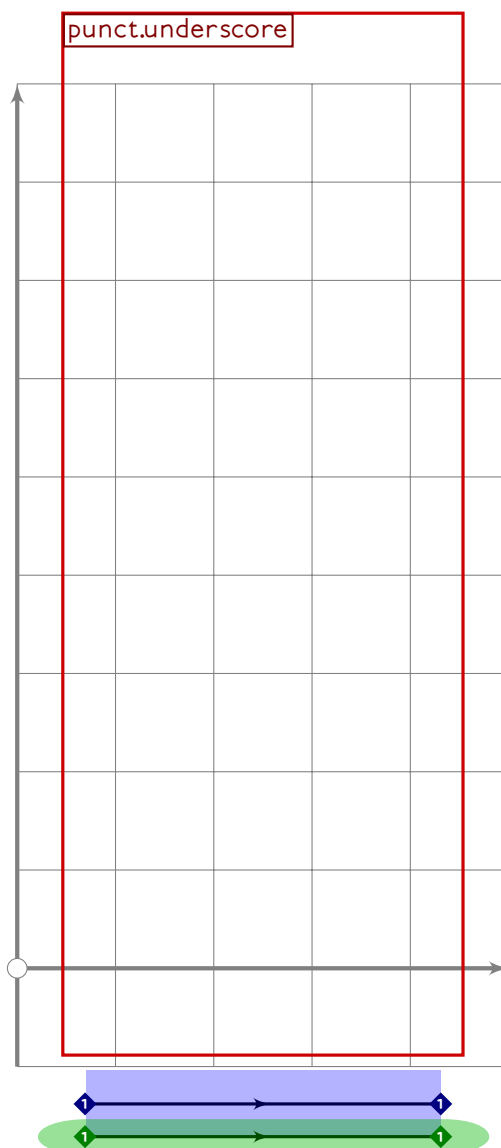
```

532 % circumflex accent/caret
533 begintsuglyph("asciicircum",94);
534   tsu_accent.circumflex;
535   tsu_render;
536 endsuglyph;
537

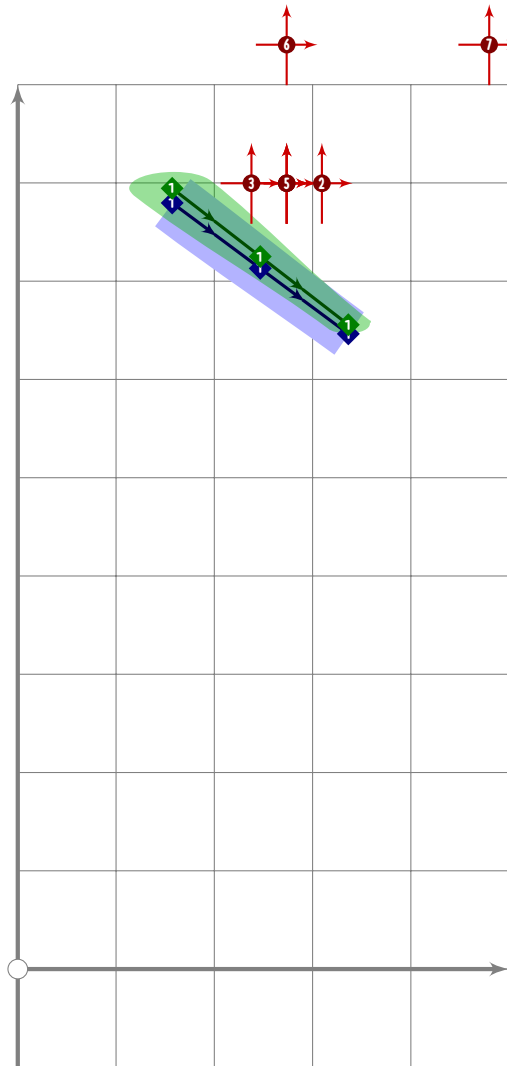
```

U+005F
tsuku.underscore

00



```
538 % underscore
539 begint Suglyph('underscore',95);
540 punct.underscore;
541 tsu_render;
542 endtsuglyph;
543
```



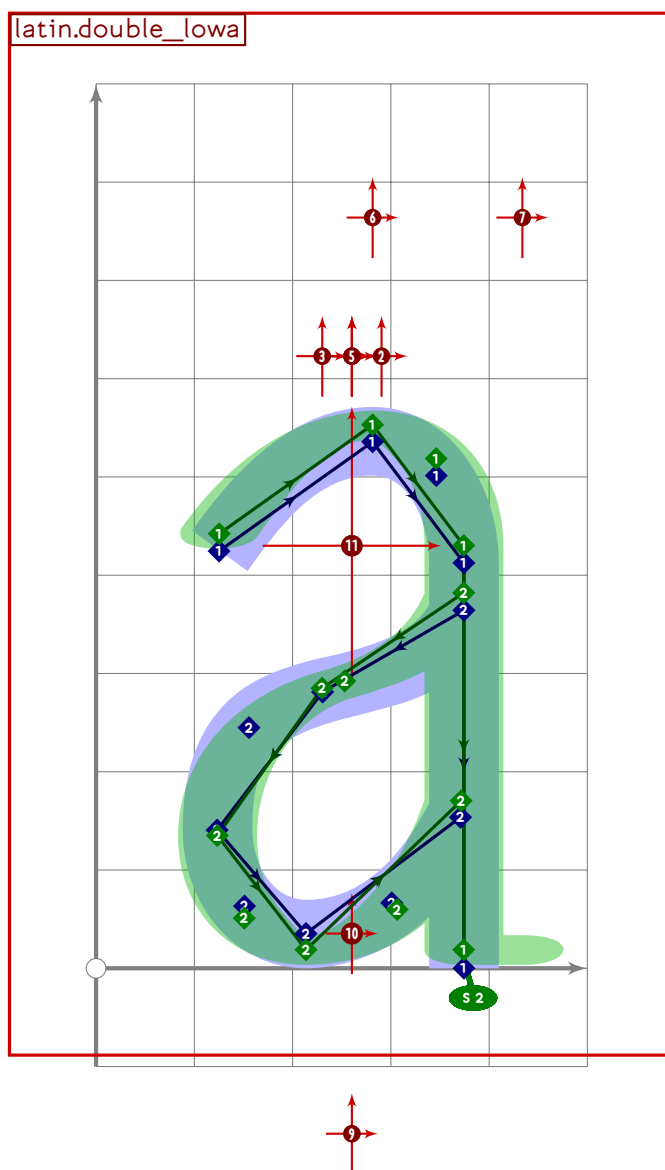
```

544 % grave accent
545 begint Suglyph("grave",96);
546   tsu_accent.grave;
547   tsu_render;
548 endtsuglyph;
549
550 % WARNING changing rescale setting
551 tsu_rescale_half_lc;
552
553 tsu_accent.low_default_anchors;
554

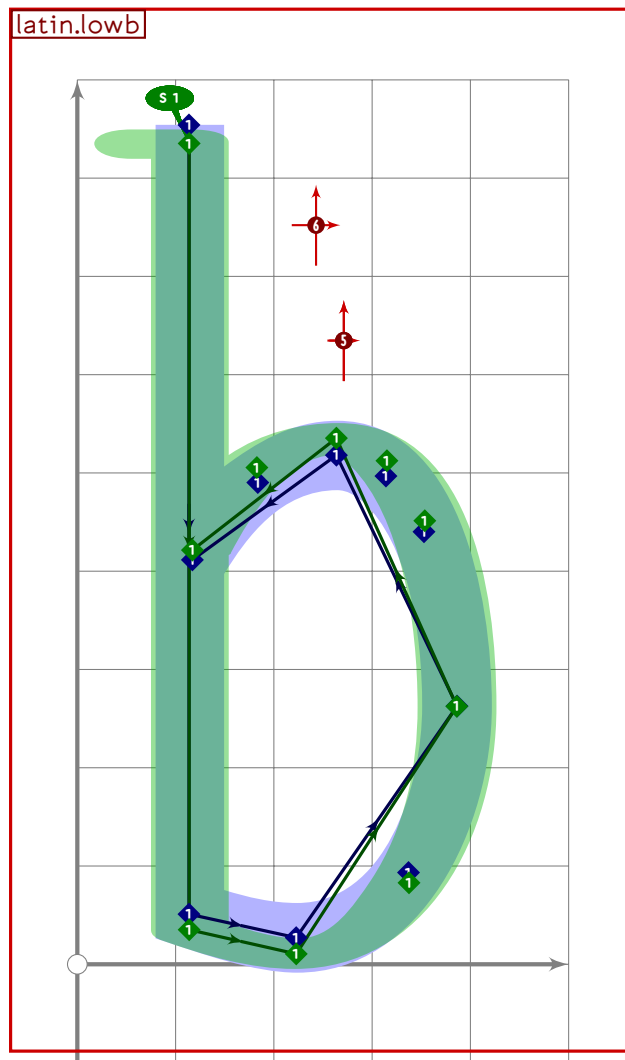
```

U+0061
tsuku.a

00



```
555 % a
556 begintsuglyph("a",97);
557   latin.low_a;
558   tsu_render;
559 endtsuglyph;
560
```

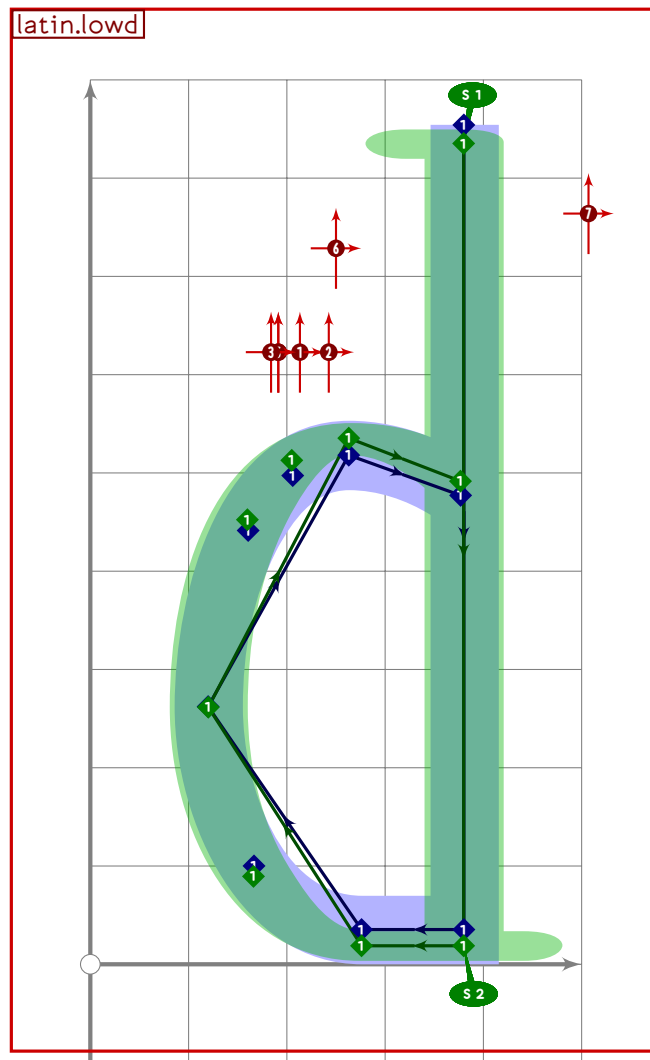
```

561 % b
562 beginsuglyph("b;98);
563   latin.lowb;
564   tsu_render;
565 endsuglyph;
566

```

00

1178



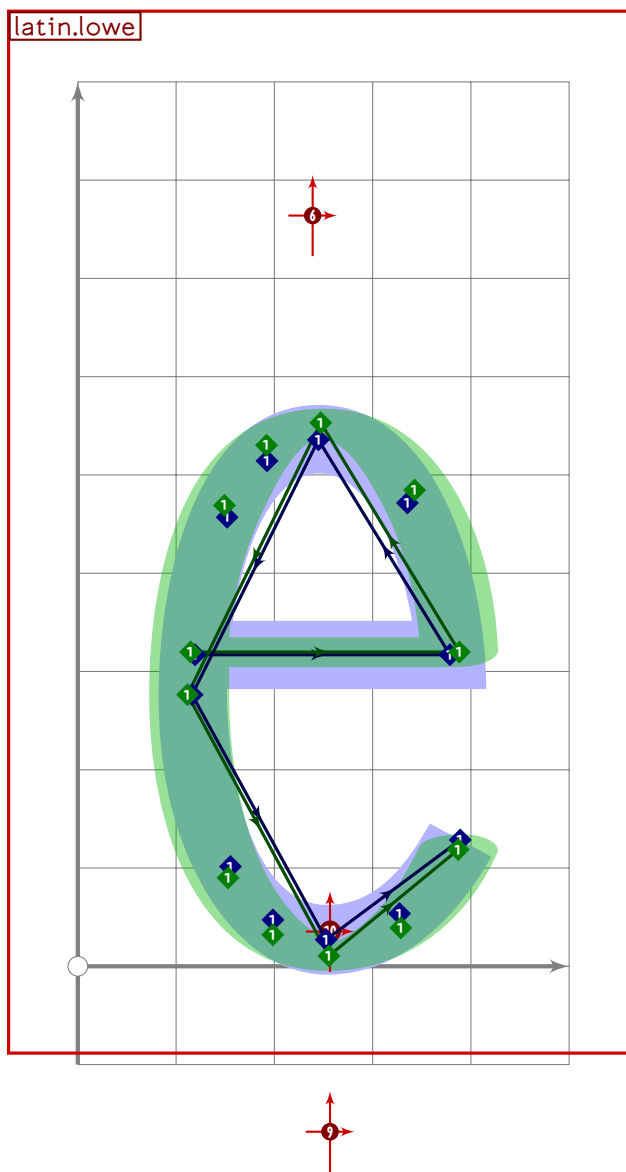
```

573 % d
574 begintsuglyph("d",100);
575   latin.lowd;
576   tsu_render;
577 endtsuglyph;
578

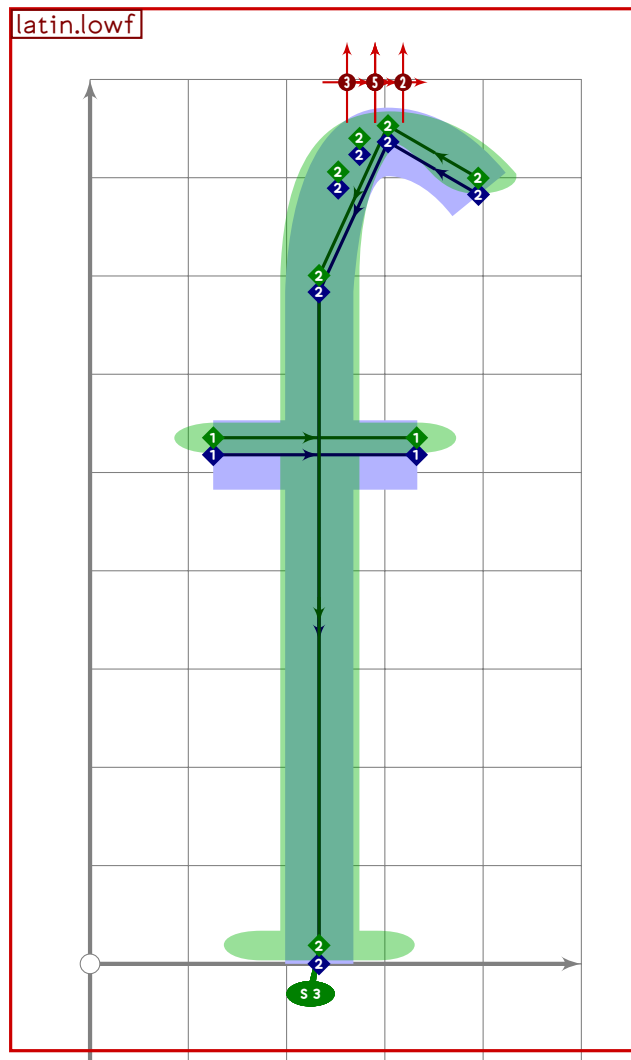
```

U+0065
tsuku.e

00



```
579 % e
580 begintsuglyph("e",101);
581   latin.lowe;
582   tsu_render;
583 endtsuglyph;
584
```



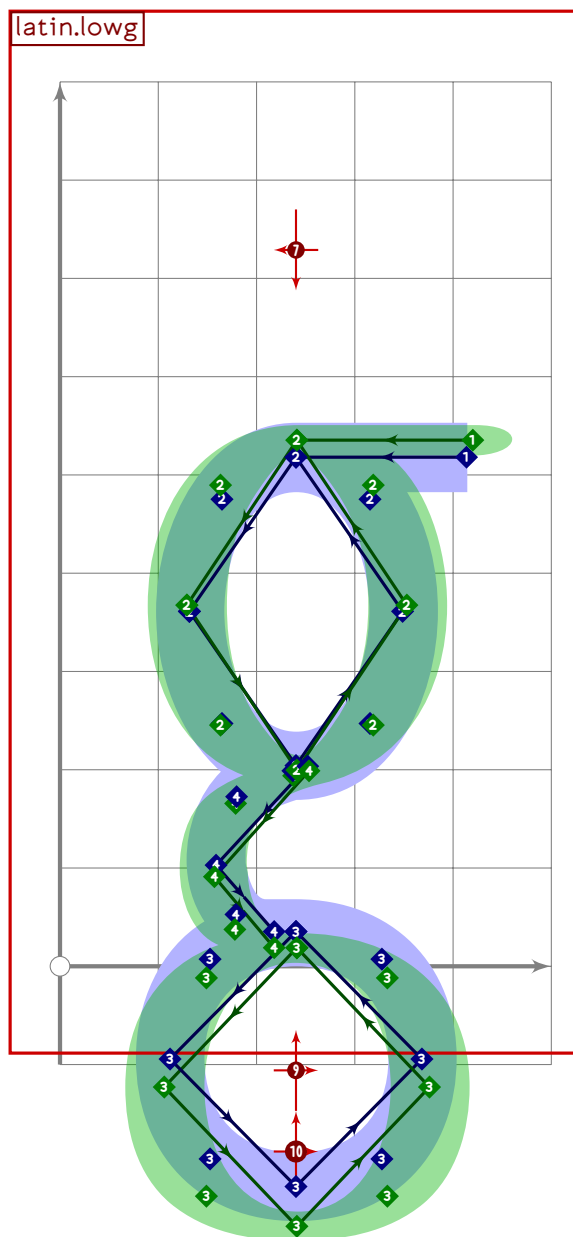
```

585 % f
586 begint Suglyph("f",102);
587 latin.lowf;
588 tsu_render;
589 endtsuglyph;
590

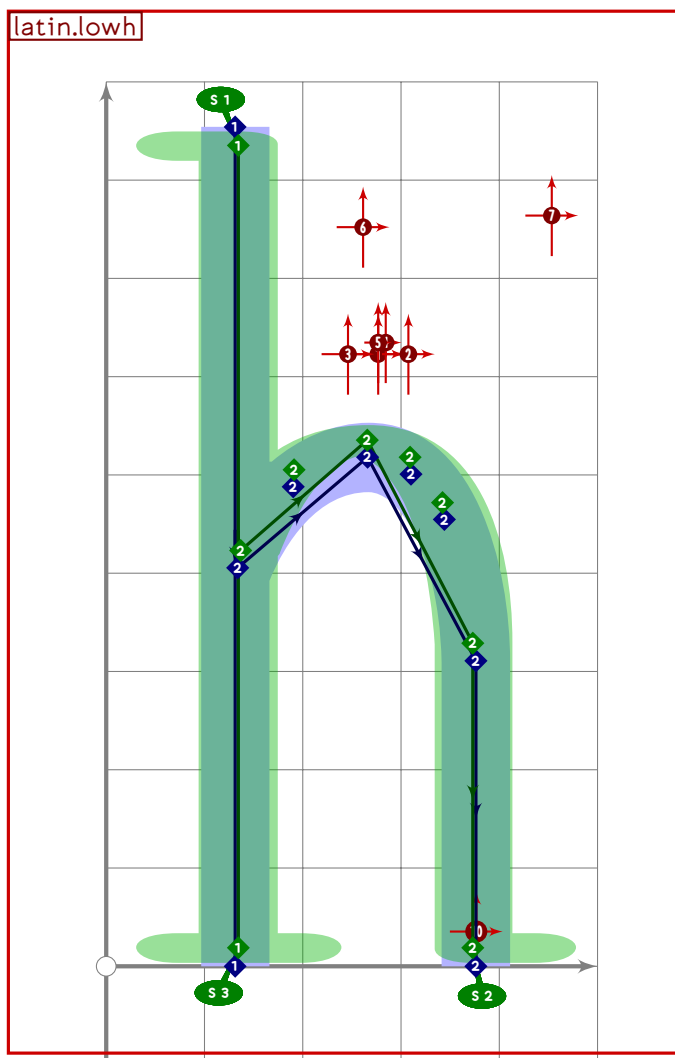
```

U+0067
tsuku.g

00



```
591 % g
592 begintsuglyph("g",103);
593   latin.lowg;
594   tsu_render;
595 endtsuglyph;
596
```



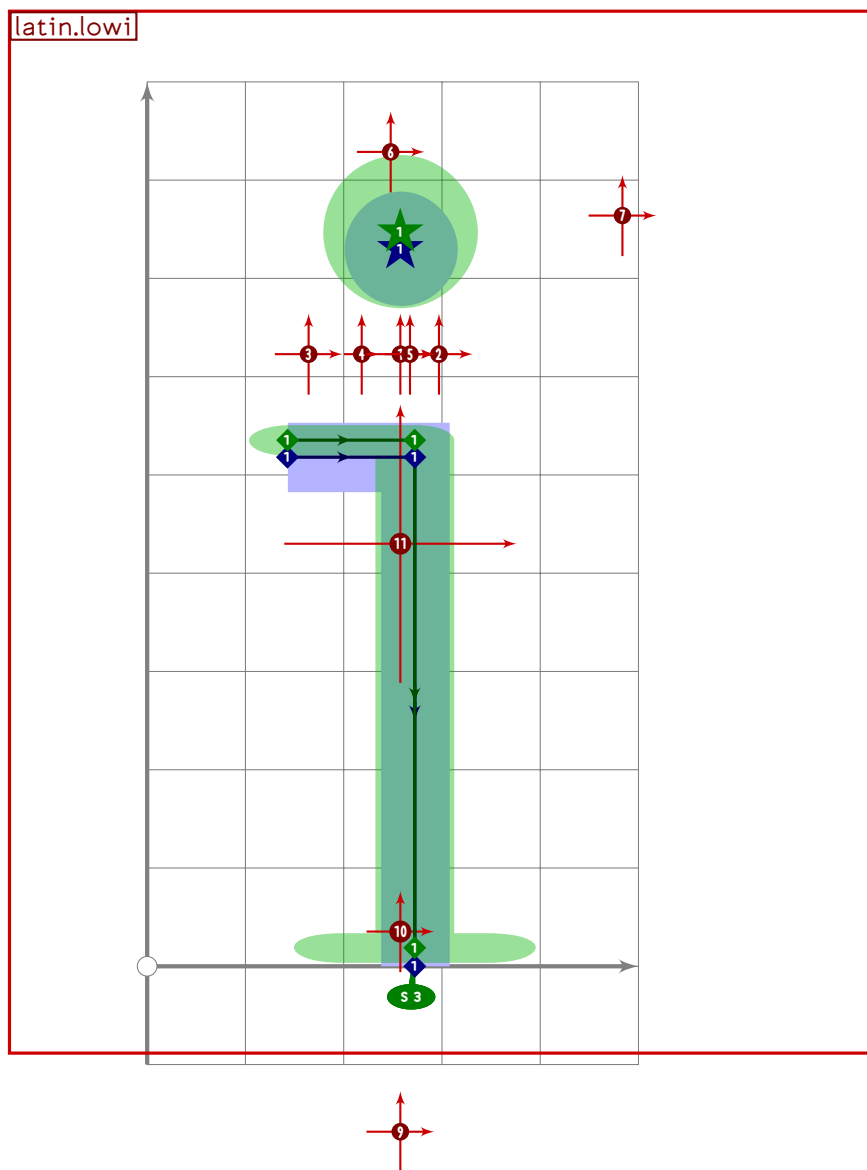
```

597 % h
598 begintsuglyph("h",104);
599   latin.lowh;
600   tsu_render;
601 endtsuglyph;
602

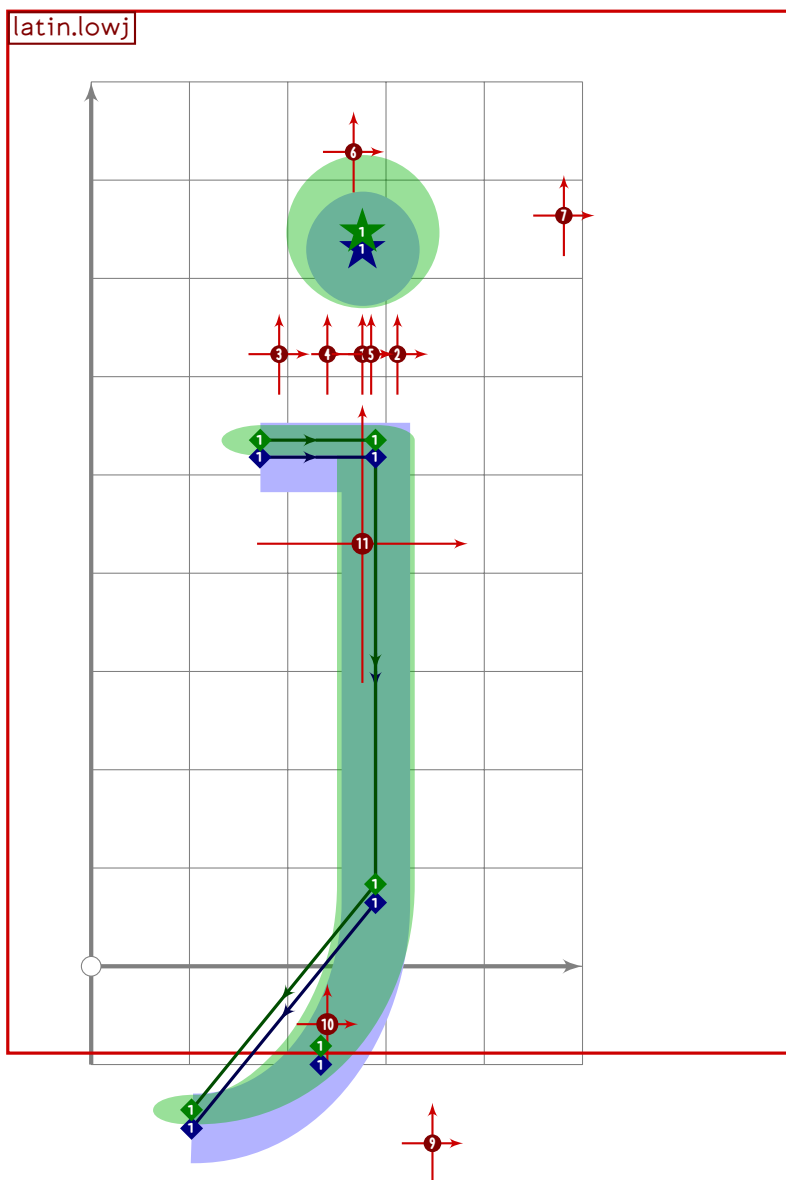
```

U+0069
tsuku.i

00



```
603 % i
604 begintsuglyph("i",105);
605 latin.low i;
606 tsu_render;
607 endtsuglyph;
608
```

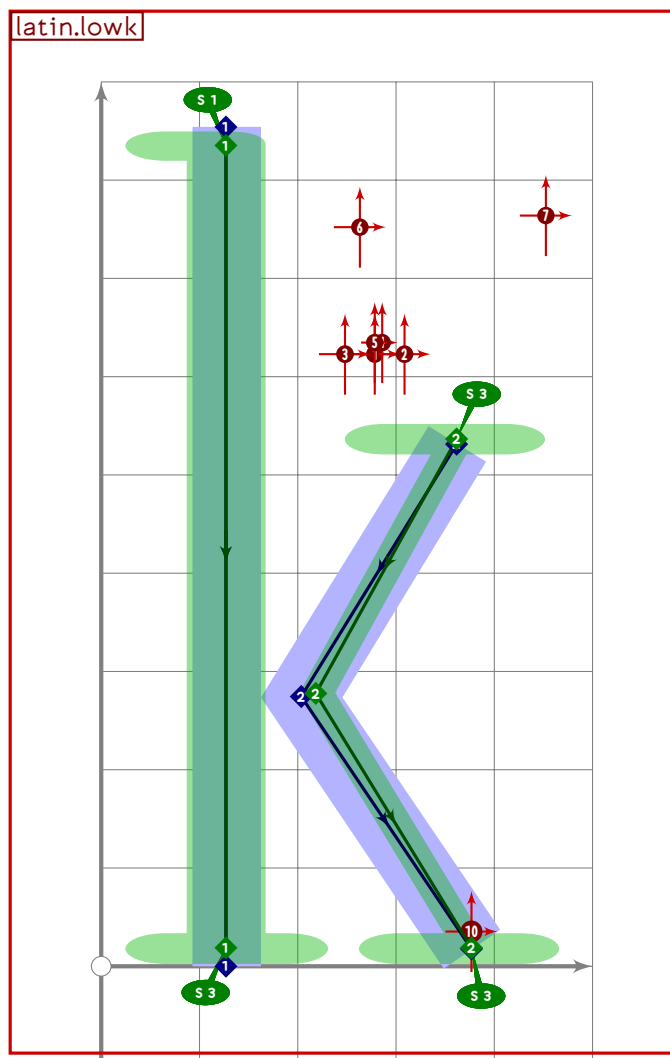



```

609 % j
610 begintsuglyph("j";106);
611 latin.lowj;
612 tsu_render;
613 endtsuglyph;
614

```

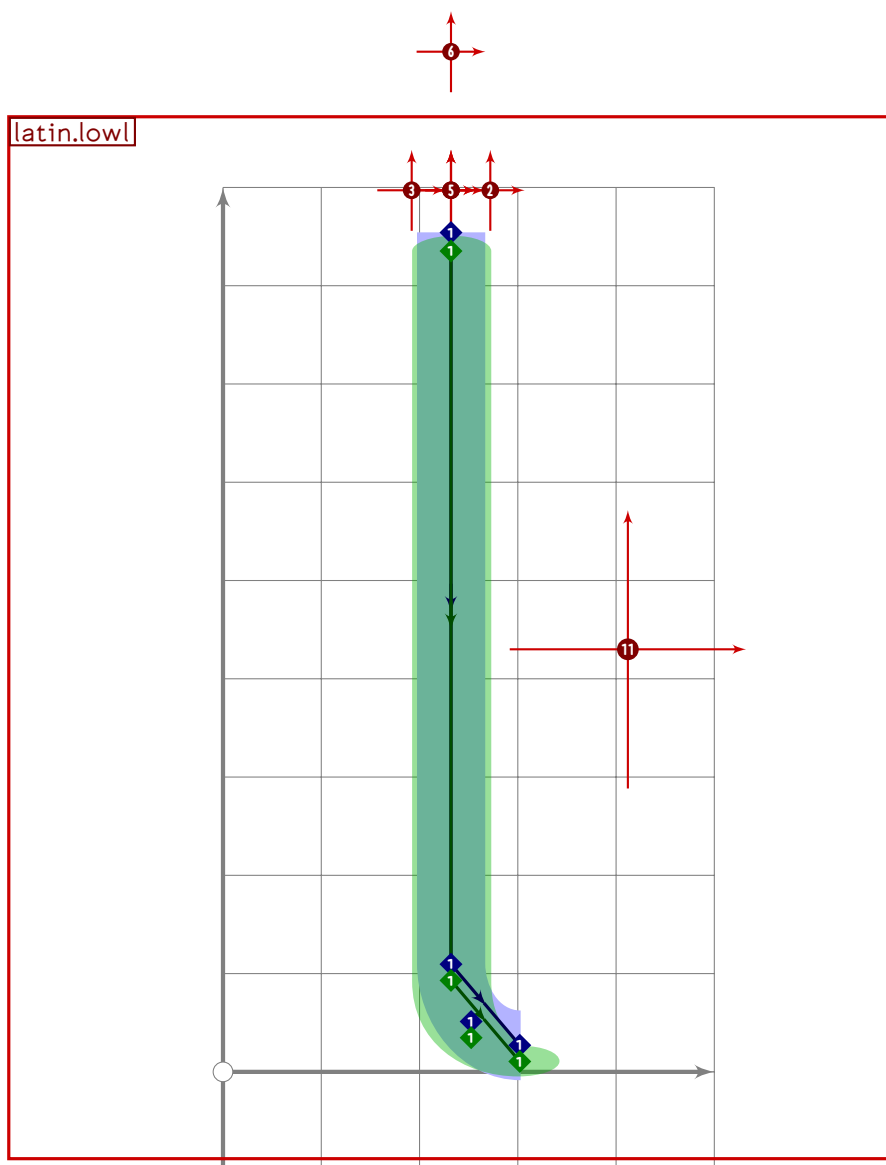
00



```

615 % k
616 beginsuglyph("k",107);
617   latin.lowk;
618   tsu_render;
619 endsuglyph;
620

```



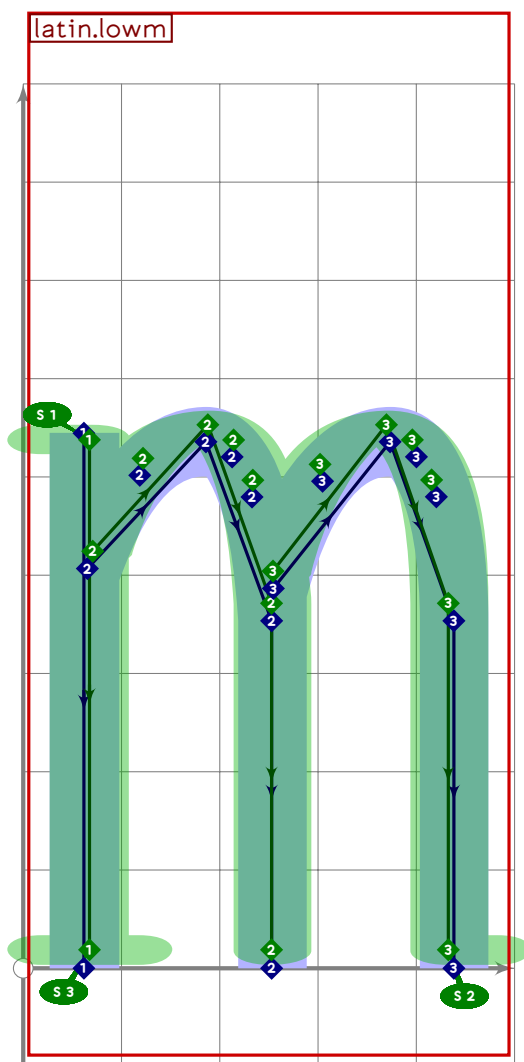
```

621 % l
622 begintsuglyph("l",108);
623 latin.lowl;
624 tsu_render;
625 endtsuglyph;
626

```

U+006D
tsuku.m

00



```
627 % m
628 beginsuglyph('m',109);
629   latin.lowm;
630   tsu_render;
631 endsuglyph;
632
```



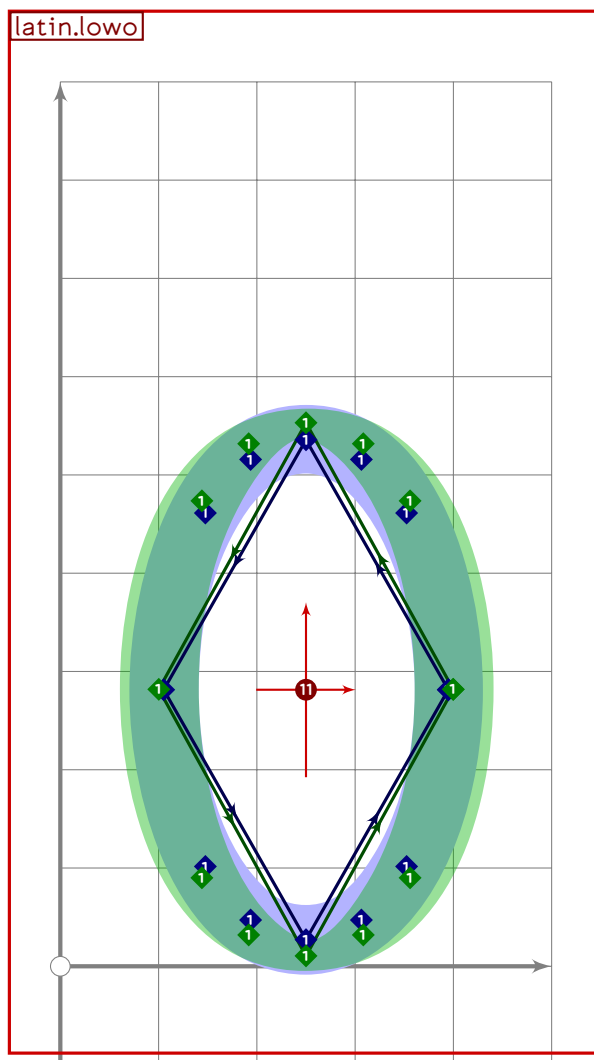
```

633 % n
634 beginsuglyph("n",10);
635   latin.lown;
636   tsu_render;
637 endsuglyph;
638

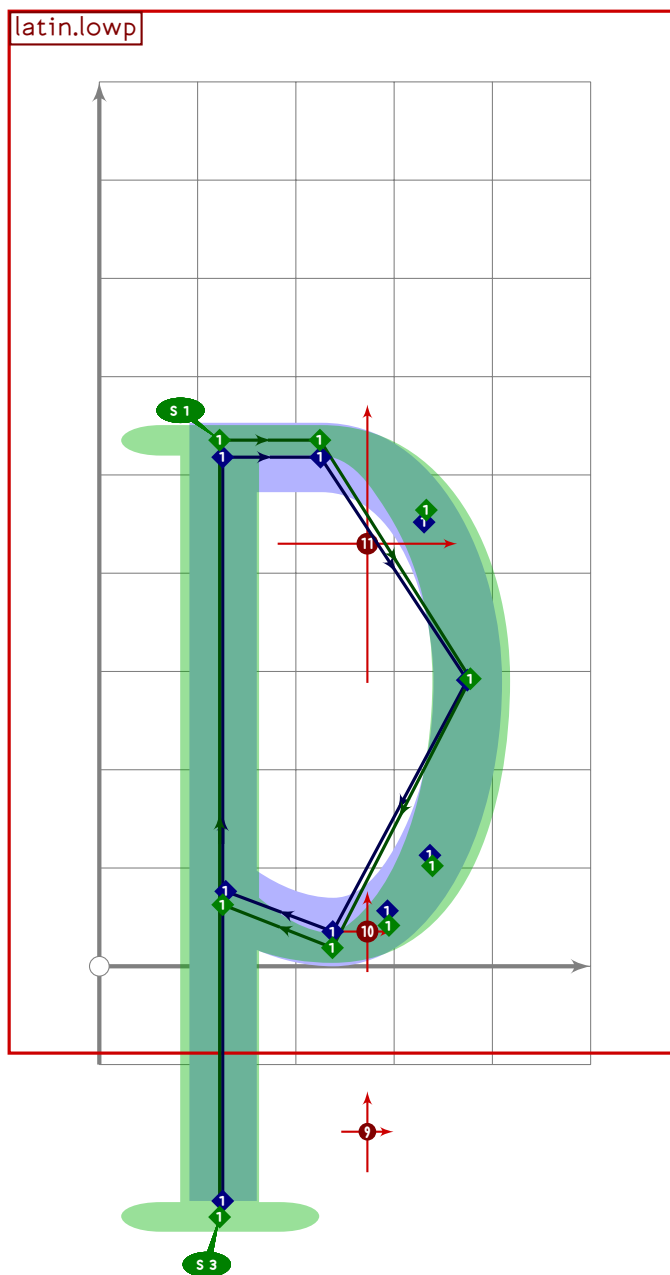
```

U+006F
tsuku.o

00



```
639 % o
640 beginsuglyph("o",11);
641   latin.lowo;
642   tsu_render;
643 endsuglyph;
644
```



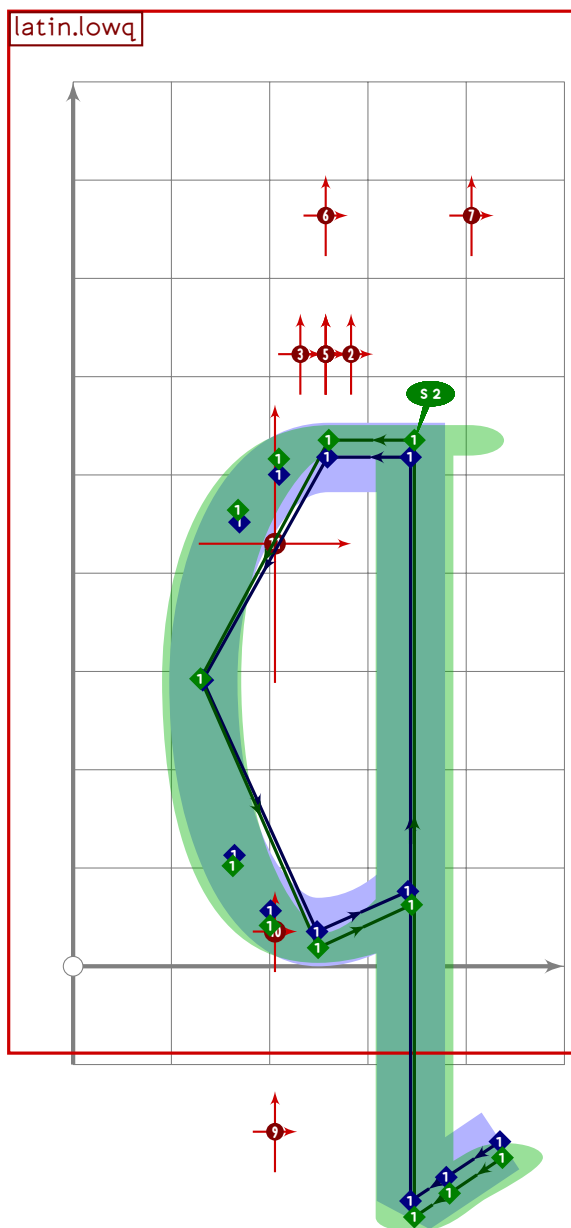
```

645 % p
646 beginsuglyph("p";112);
647   latin.lowp;
648   tsu_render;
649 endsuglyph;
650

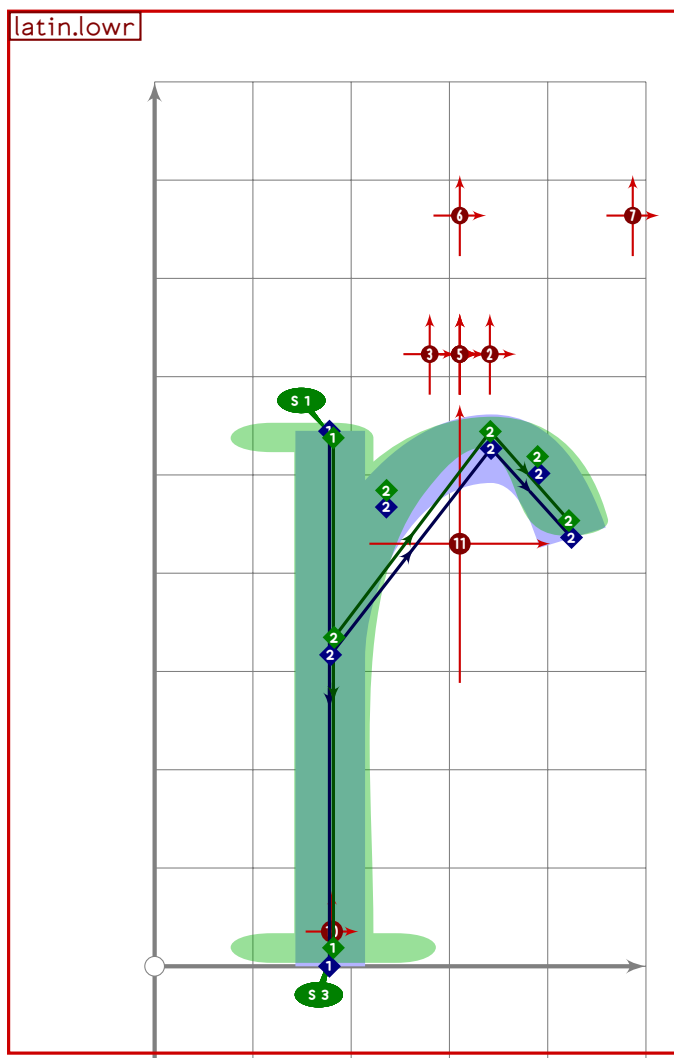
```

U+0071
tsuku.q

00



```
651 % q
652 begintsuglyph("q";113);
653   latin.lowq;
654   tsu_render;
655 endtsuglyph;
656
```

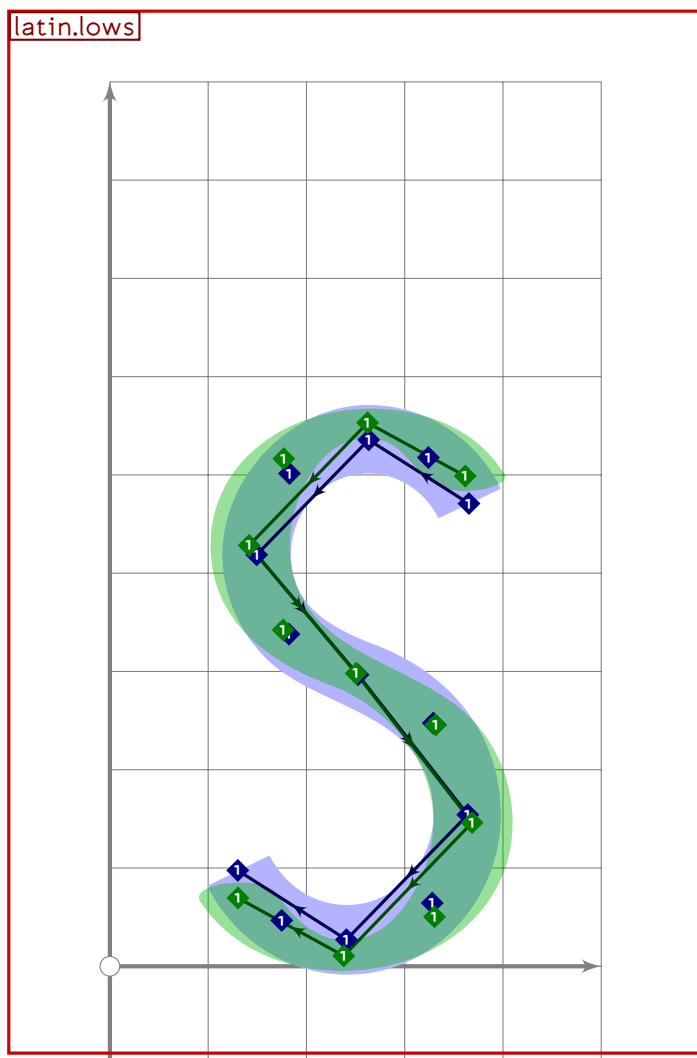
```

657 % r
658 begintsuglyph("r";14);
659   latin.lowr;
660   tsu_render;
661 endtsuglyph;
662

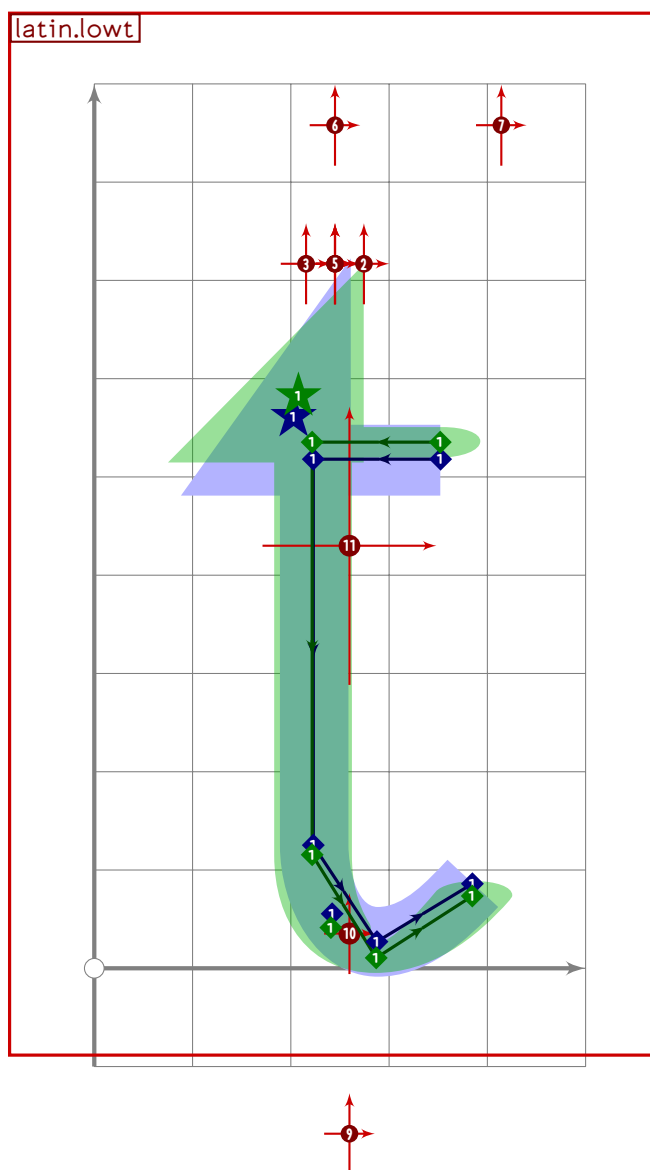
```

U+0073
tsuku.s

00



```
663 % s
664 beginsuglyph("s";115);
665   latin.lows;
666   tsu_render;
667 endsuglyph;
668
```



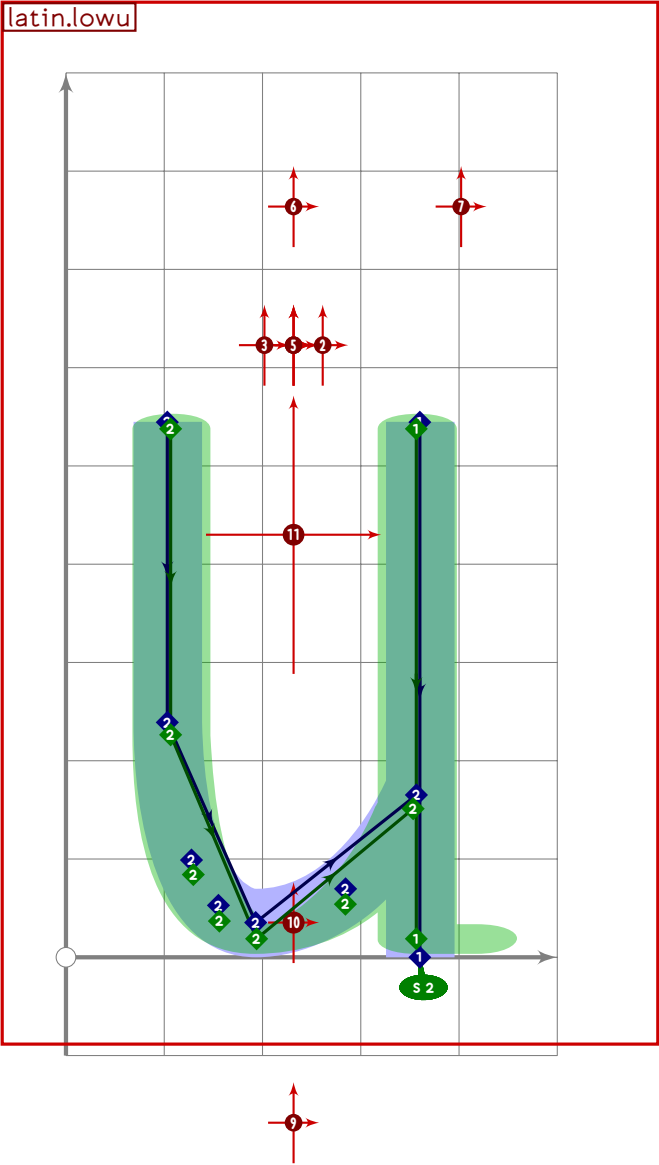
```

669 % t
670 begintsuglyph("t",116);
671 latin.lowt;
672 tsu_render;
673 endtsuglyph;
674

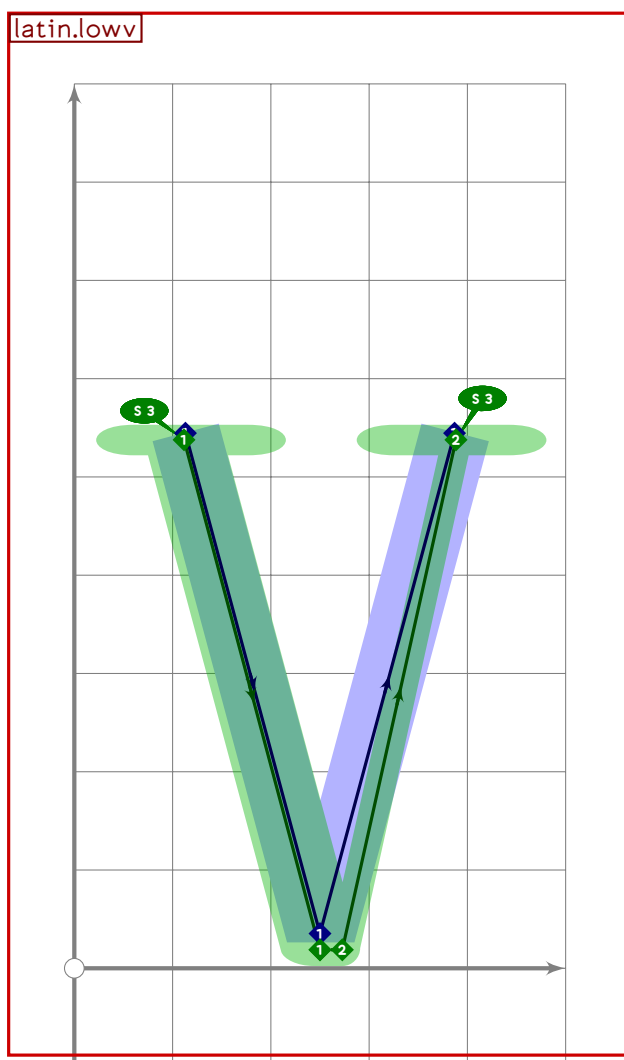
```

U+0075
tsuku.u

00



```
675 % u
676 begintsuglyph('u',117);
677 latin.lowu;
678 tsu_render;
679 endtsuglyph;
680
```



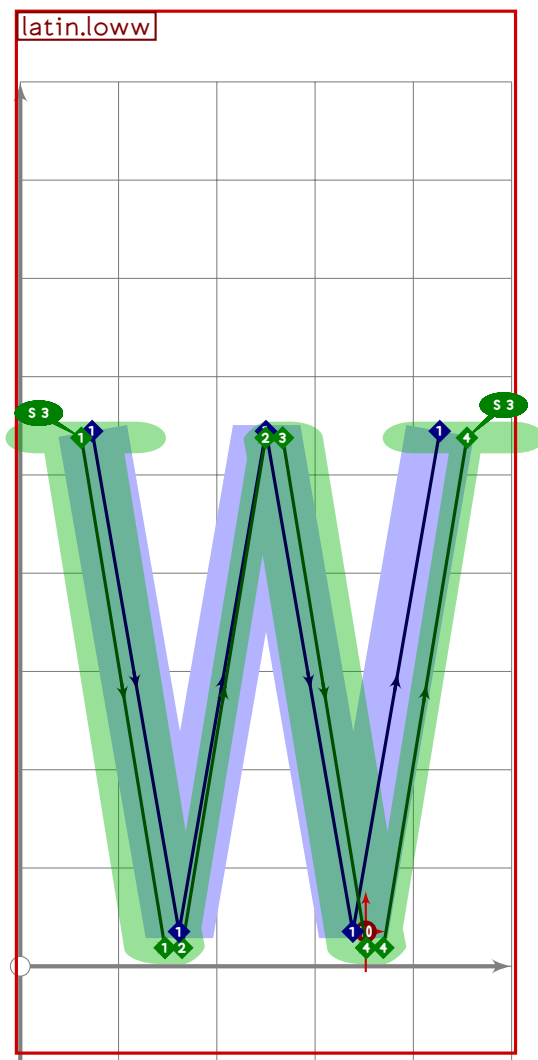
```

681 % v
682 beginsuglyph("v";18);
683   latin.lowv;
684   tsu_render;
685 endsuglyph;
686

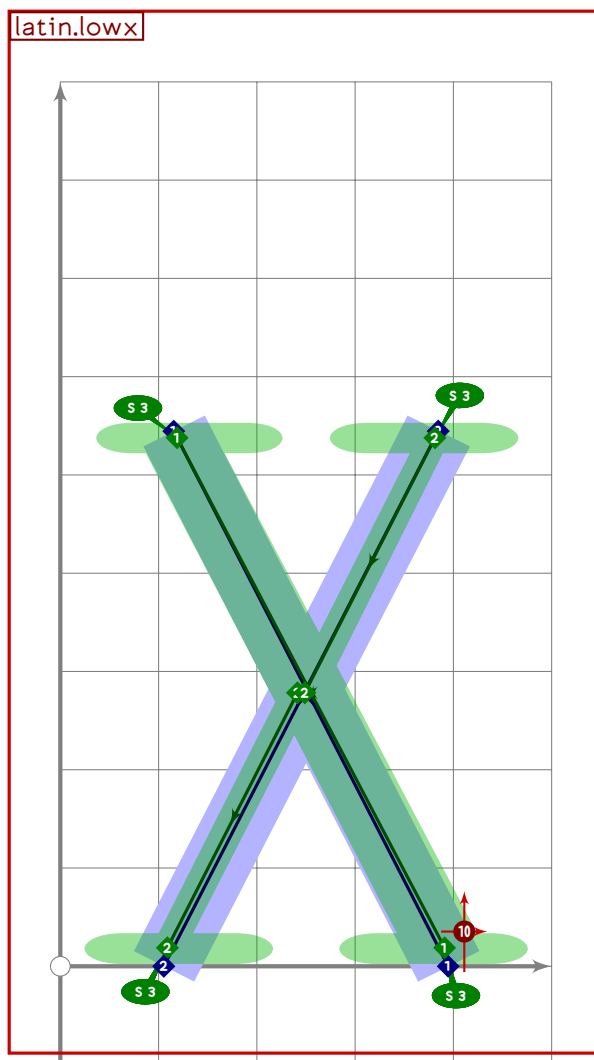
```

U+0077
tsuku.w

00



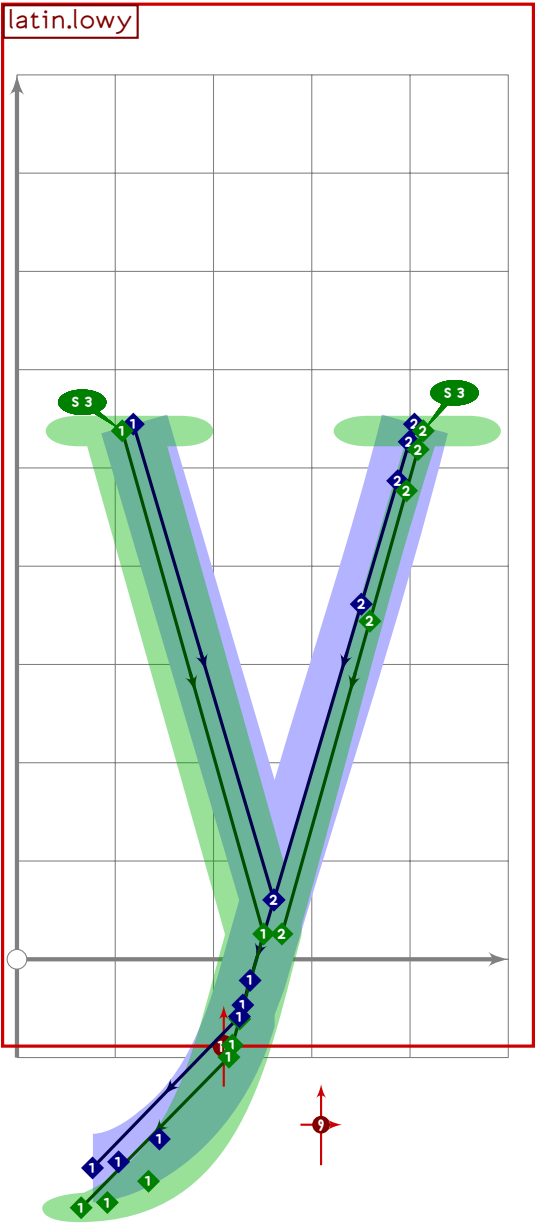
```
687 % w
688 beginsuglyph('w',119);
689   latin.loww;
690   tsu_render;
691 endsuglyph;
692
```



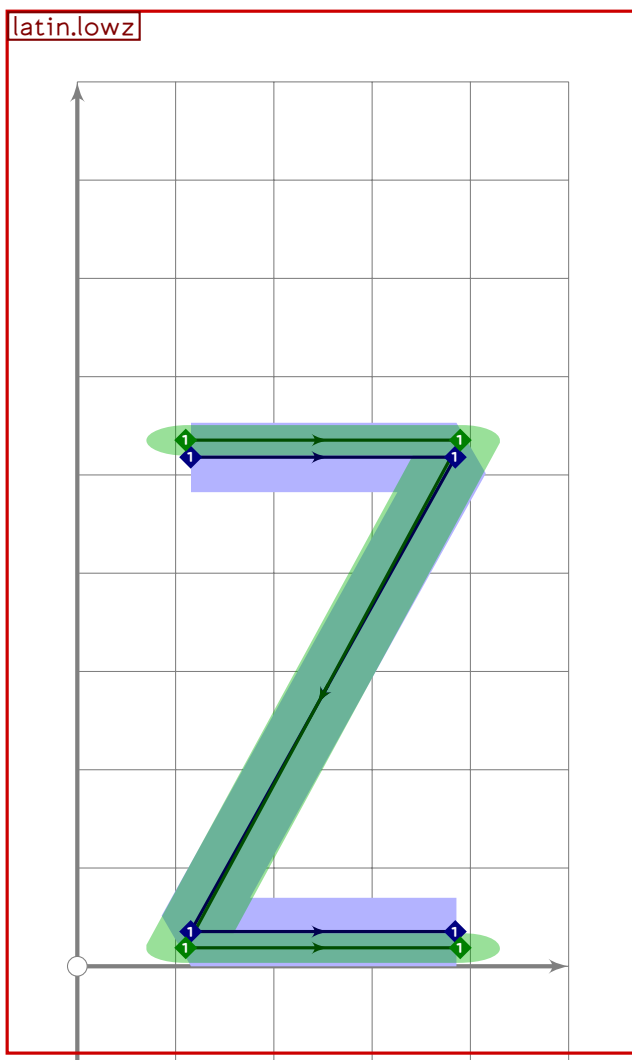
```

693 % x
694 beginsuglyph("x",120);
695   latin.lowx;
696   tsu_render;
697 endsuglyph;
698

```



```
699 % y
700 beginsuglyph("y",121);
701   latin.lowy;
702   tsu_render;
703 endsuglyph;
704
```

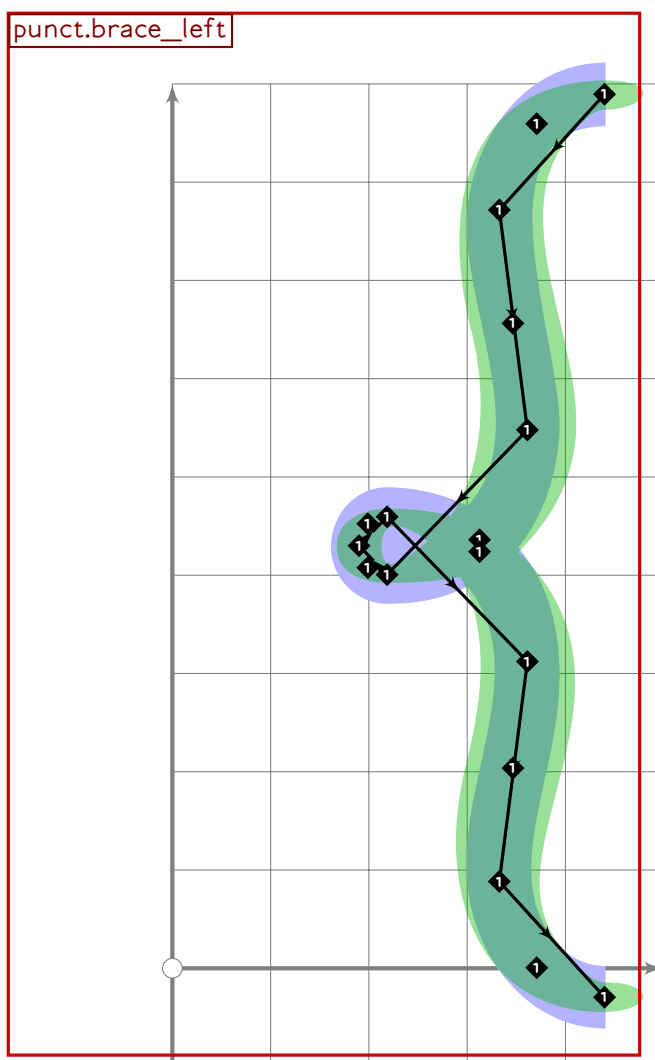
```

705 % z
706 beginsuglyph("z";122);
707   latin.lowz;
708   tsu_render;
709 endsuglyph;
710
711 tsu_accent.clear_default_anchors;
712
713 % WARNING changing rescale setting
714 tsu_rescale_half;
715

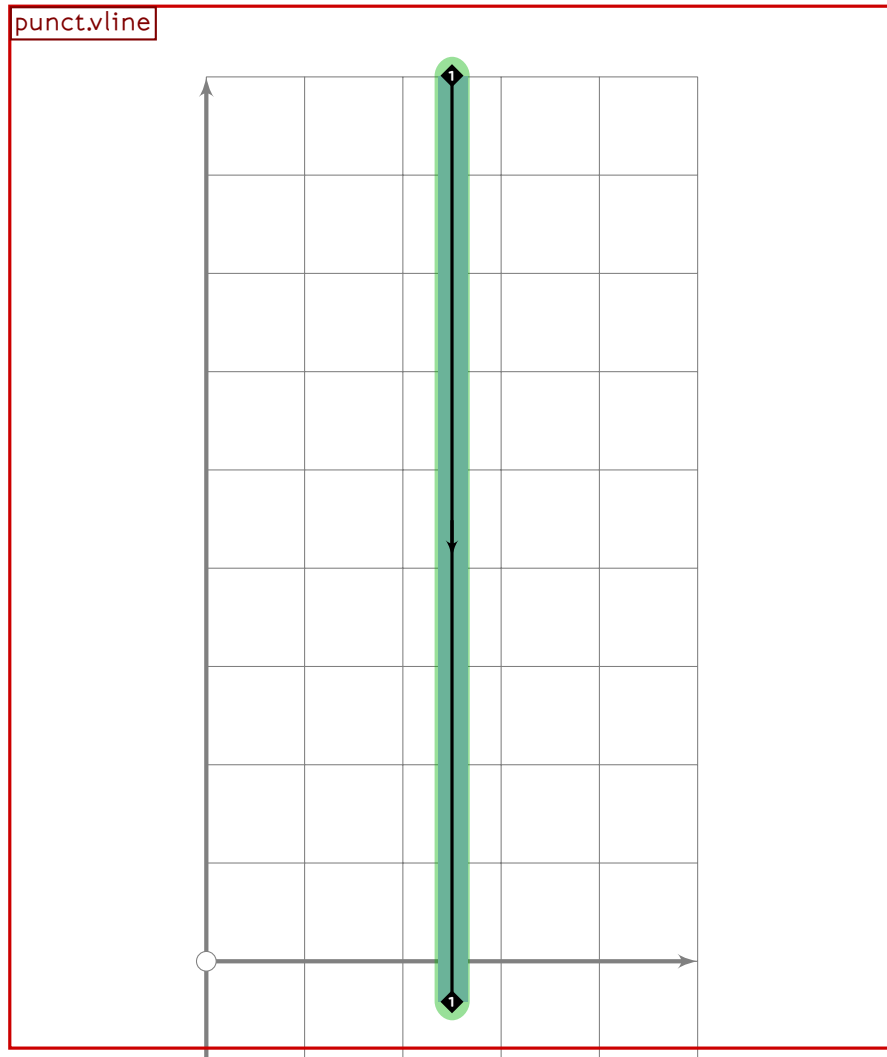
```

U+007B
tsuku.braceleft

00

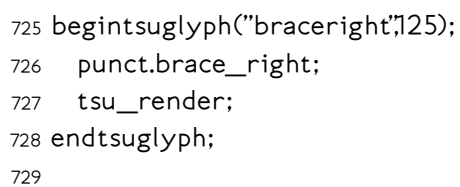


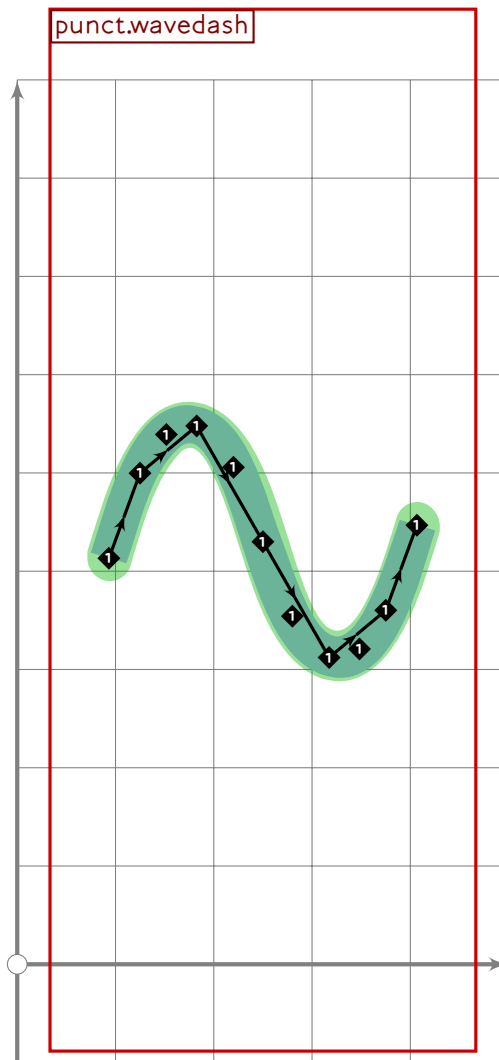
```
716 % left and right square brackets
717 beginsuglyph("braceleft";123);
718   punct.brace_left;
719   tsu_render;
720 endsuglyph;
```



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

00





```

730 % "tilde" - rescaled "wave dash"
731 beginsuglyph("asciitilde",126);
732   punct.wavedash;
733   tsu_render;
734 endsuglyph;
735
736
737
738 % 007F through 009F are nonprinting control characters.
739 % 00A0 is a space, supplied by the make-font script later
740
741
742

```

Latin-1 Extra Characters

```

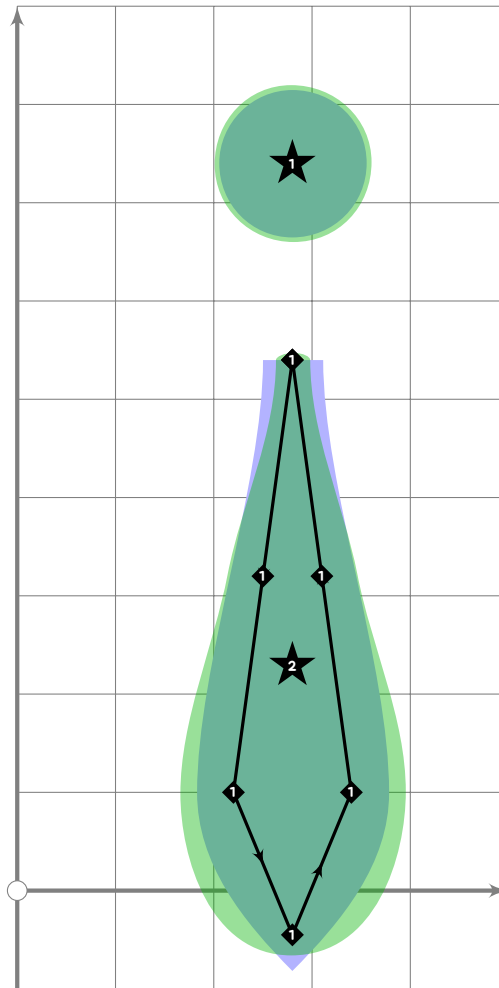
743 % LATIN-1 EXTRA CHARACTERS
744
745 transform tsu_xf.latin_one_super,tsu_xf.latin_one_circled,
746   tsu_xf.latin_one_cbound;

```

```

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

```



```

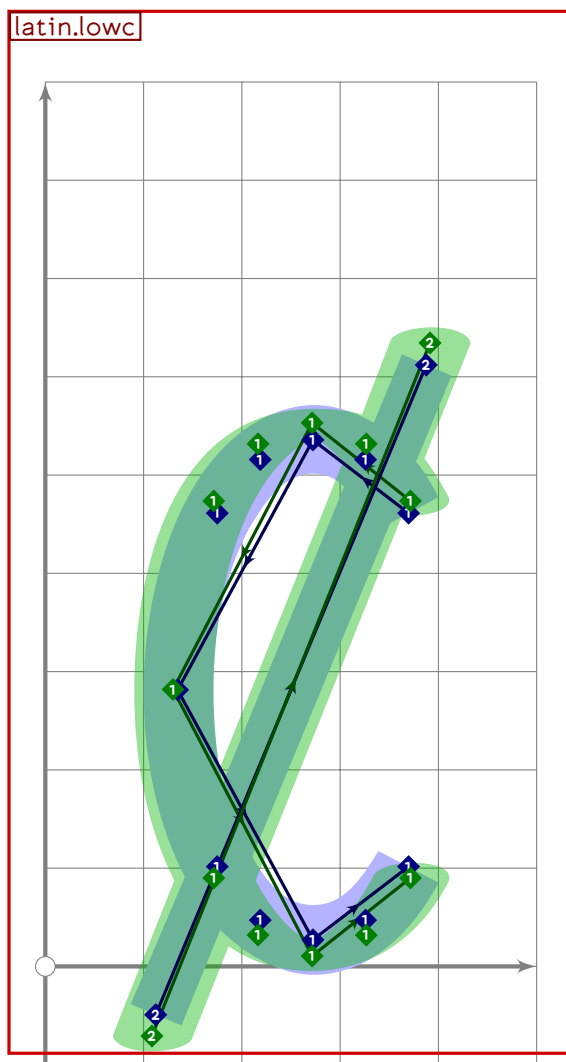
775 beginsuglyph("exclamdown",161);
776   if tsu_brush_max.brpunct*100>=(tsu_punct_size*0.5):
777       push_lcblob(fullcircle
778           xscaled (tsu_punct_size+tsu_brush_max.brpunct*100)
779           yscaled (tsu_punct_size+
780                   tsu_brush_max.brpunct*100*tsu_brush_shape.brpunct)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

```

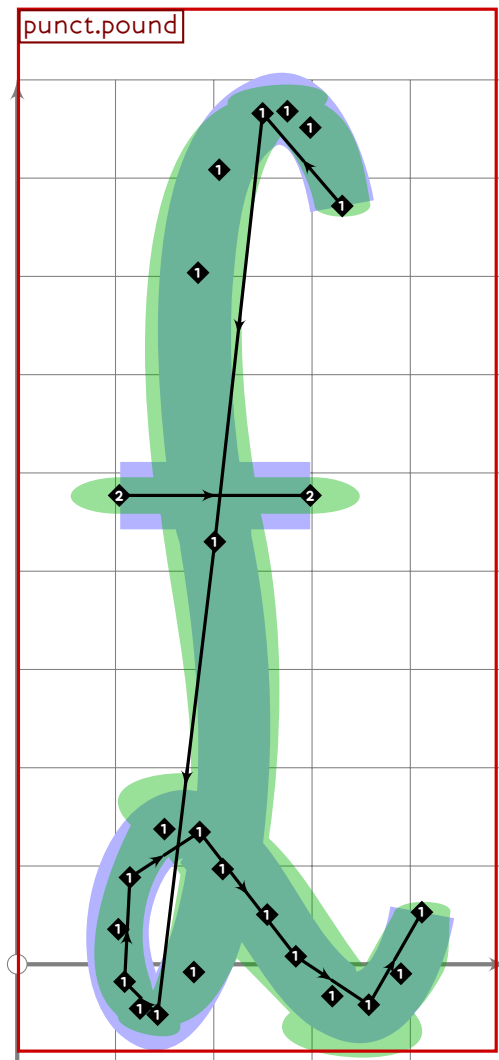
U+00A2
tsuku.cent

00

```
796      (160,680){down}{.}{down}(220,240))
797      rotatedaround ((250,390),180),
798      (1,1)-(2,2)-(2,2)-(2,2)-(1,1));
799
800      if tsu_brush_max.brpunct>=0.3:
801          push_lcblob((subpath (0,1,3,9) of get_strokep(0))-cycle);
802      fi;
803
804      tsu_render;
805 endtsuglyph;
806 tsu_rescale_half;
```



```
807
808 begintsuglyph("cent",162);
809 tsu_accent.apply(latin.lowc)(tsu_accent.slash);
810 tsu_render;
811 endtsuglyph;
```

```
812
813 begintsuglyph("sterling",163);
814   punct.pound;
815   tsu_render;
816 endtsuglyph;
817
818 begintsuglyph("currency",164);
819   punct.currency;
820   tsu_render;
821 endtsuglyph;
822
```

[see page 381]

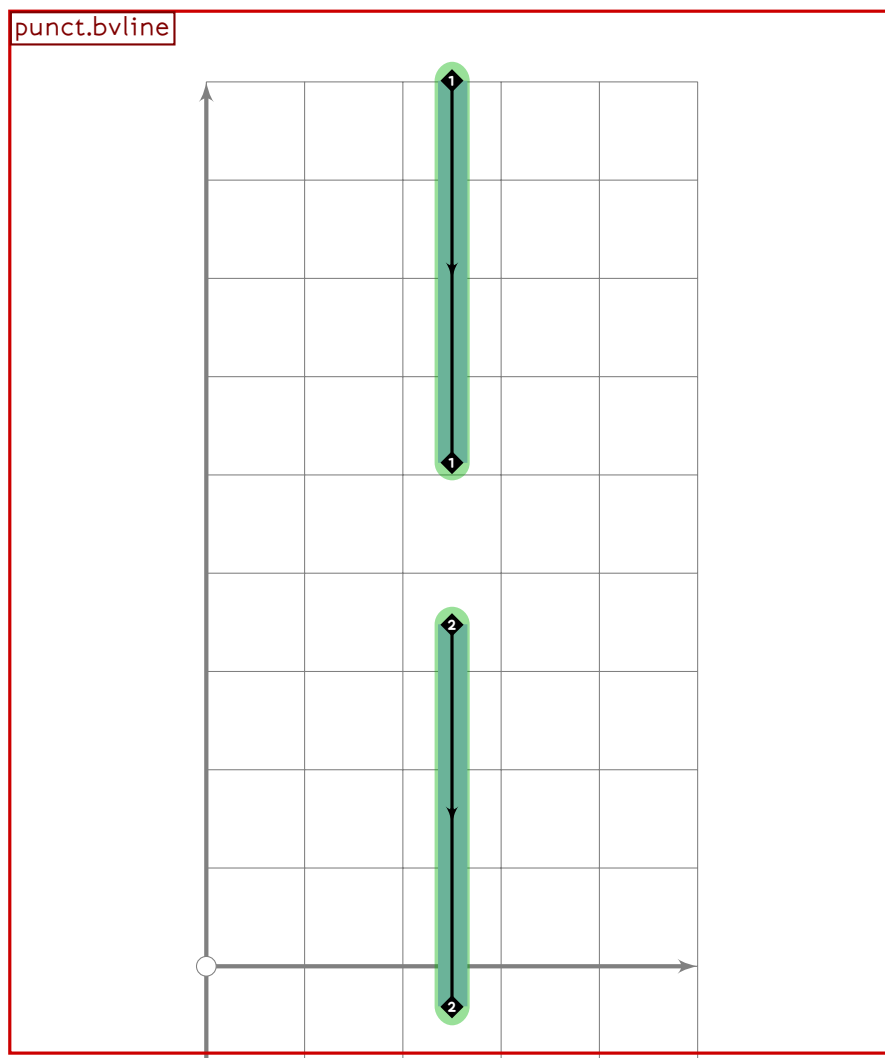
00



```

823 % yen sign
824 beginsuglyph("yen",165);
825     latin.upy;
826     push_stroke(((240,0)-(240,0)) shifted point 1 of get_strokep(-1),
827         (2,2)-(2,2));
828     set_bosize(0,80);
829     push_stroke(((240,0)-(240,0)) shifted point 1.333 of get_strokep(-2),
830         (2,2)-(2,2));
831     set_bosize(0,80);
832     tsu_render;
833 endsuglyph;

```



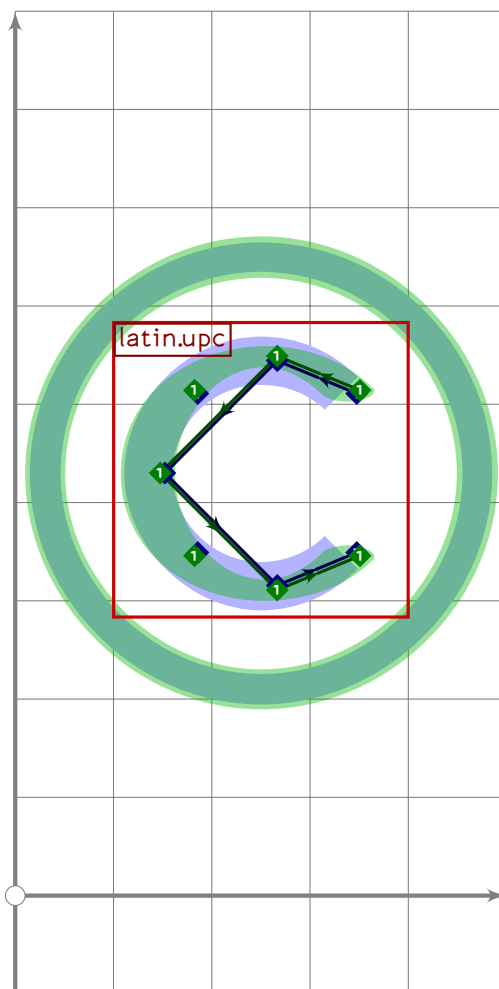
```

834
835 begintsuglyph("brokenbar",166);
836   punct.bvline;
837   tsu_render;
838 endtsuglyph;
839
840 begintsuglyph("section",167);
841   punct.section;
842   tsu_render;
843 endtsuglyph;
844
845 % naked umlaut
846 begintsuglyph("dieresis",168);
847   tsu_accent.umlaut;
848   tsu_render;
849 endtsuglyph;
850
851 % WARNING, setting rescale
852 tsu_rescale_native_conditional;

```

[see page 403]

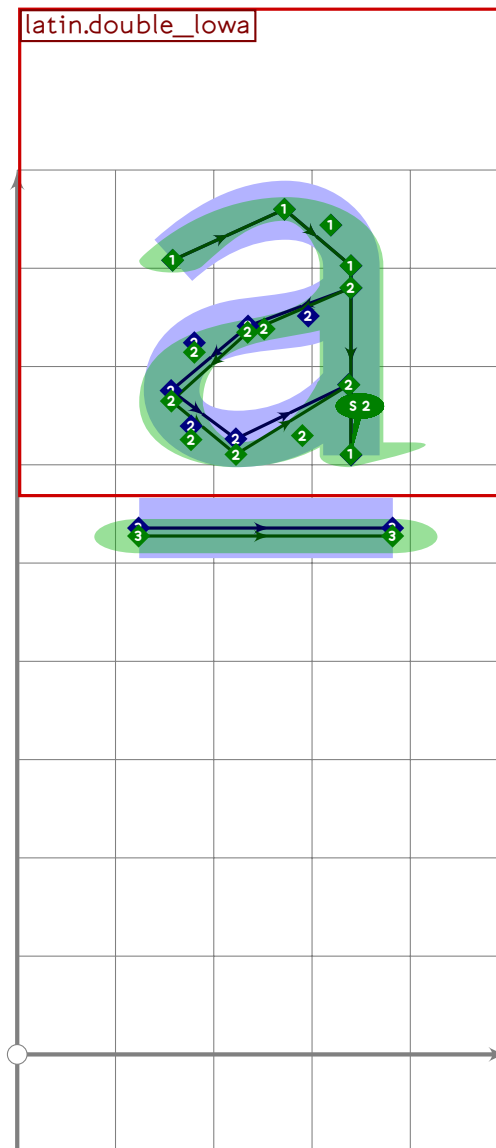
[see page 112]



```

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

```



```

862
863 begintsuglyph("ordfeminine",170);
864   tsu_xform(tsu_xf.latin_one_super)(
865     latin.low_a;
866     push_stroke((270,-110)-(740,-110),(2,2)-(2,2));
867     set_bosize(0,get_bosize(-1));
868     tsu_render;
869 endtsuglyph;
870
871 % WARNING, changing rescale setting
872 tsu_rescale_half;
873
874 begintsuglyph("guillemotleft",171);
875   punct.guillemet_left;
876   tsu_render;
877 endtsuglyph;
878

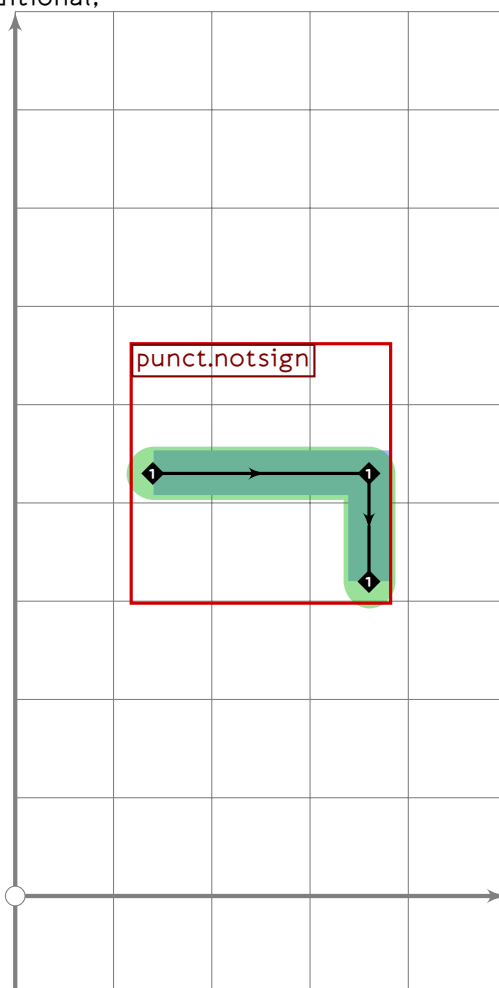
```

[see page 389]

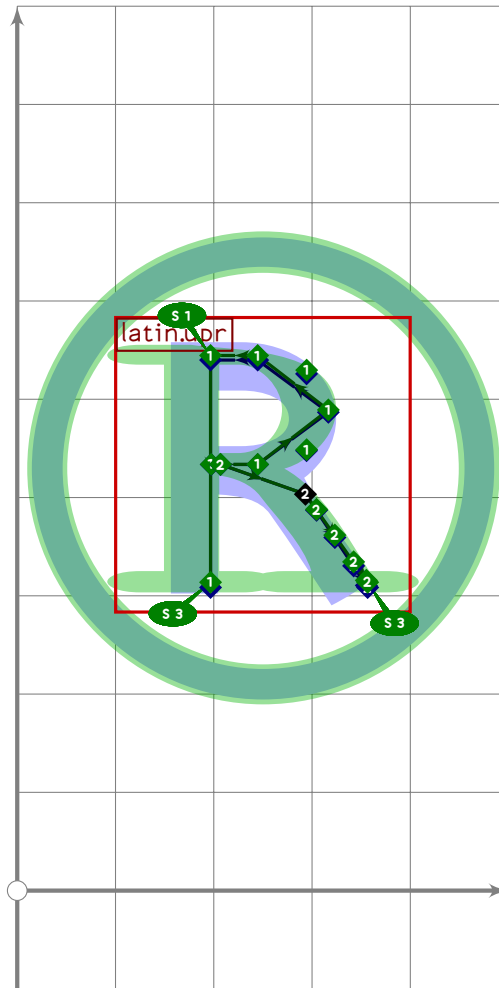
U+00AC
tsuku.logicalnot

```
879 % WARNING, setting rescale
880 tsu_rescale_native_conditional;
```

00



```
881
882 begintsuglyph("logicalnot",172);
883   punct.notsign(ascii_punct_xf);
884   tsu_render;
885 endtsuglyph;
886
887 % soft hyphen is a zero-width space and added by make-font script
```



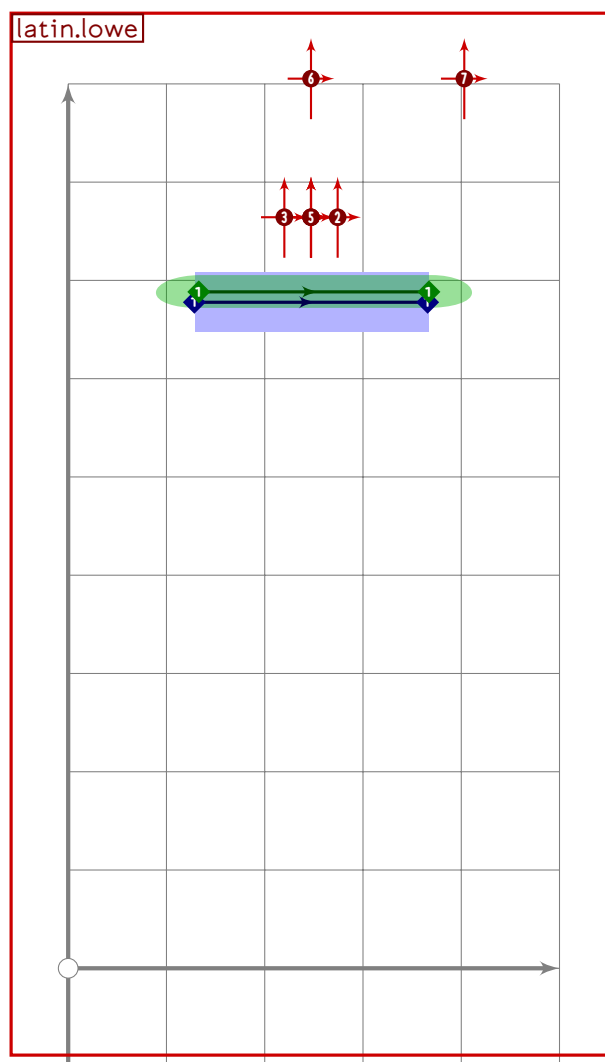
```

888
889 begint Suglyph("registered",174);
890   Fill fullcircle scaled (1320+120*tsu_brush_max.brletter) shifted centre_pt
891     transformed tsu_xf.latin_one_circled;
892   unFill reverse fullcircle scaled (1320-120*tsu_brush_max.brletter)
893     shifted centre_pt transformed tsu_xf.latin_one_circled;
894   tsu_xform(tsu_xf.latin_one_circled)(latin.upr);
895   tsu_render_in_circle(tsu_xf.latin_one_cbound);
896 endtsuglyph;
897
898 % WARNING, setting rescale
899 tsu_rescale_half;
900

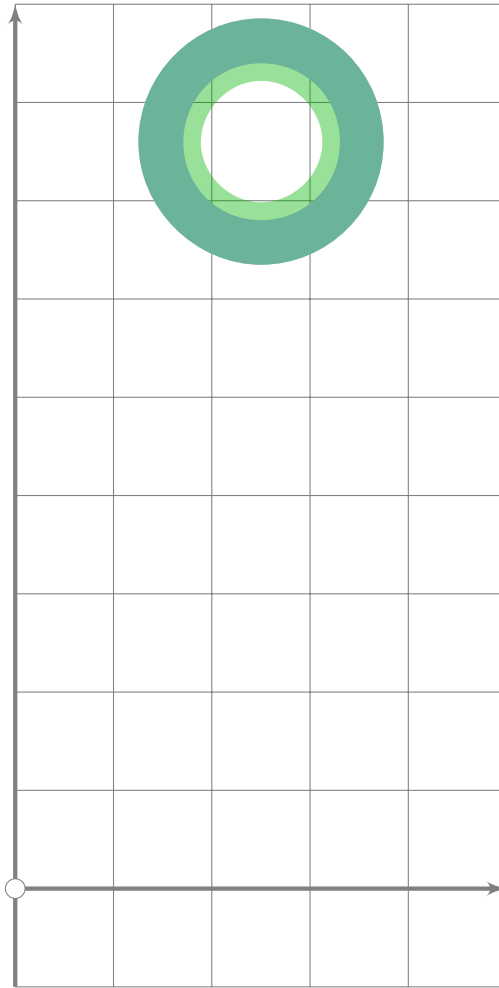
```

U+00AF
tsuku.macron

00



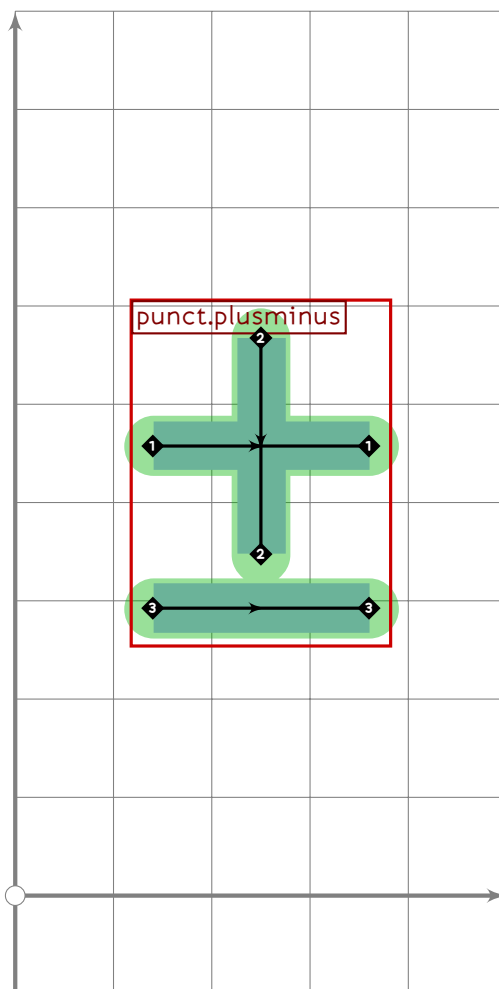
```
901 % naked macron
902 beginsuglyph("macron",175);
903   tsu_accent.apply(latin.lowe;set_bosize(0,0))(tsu_accent.macron);
904   tsu_render;
905 endtsuglyph;
906
907 % WARNING, setting rescale
908 tsu_rescale_native_conditional;
```

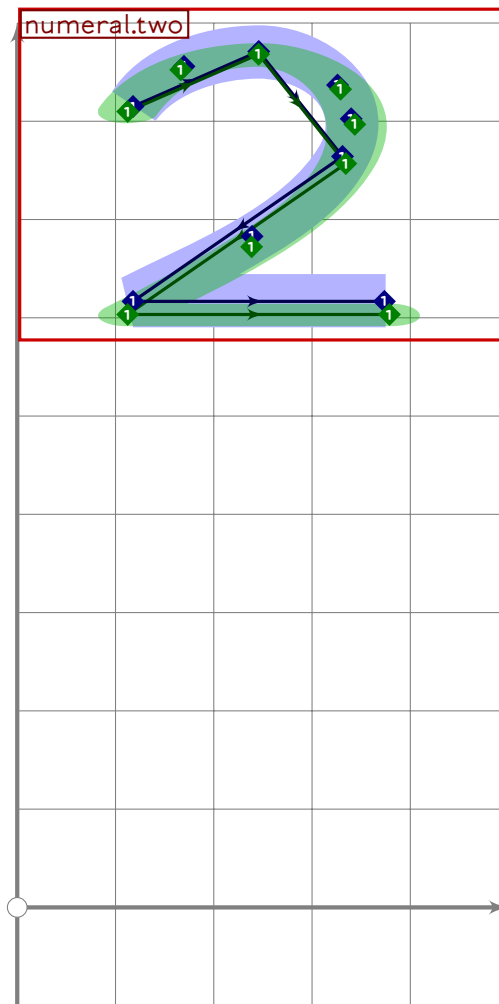
```
909
910 begint Suglyph("degree",176);
911   Fill fullcircle scaled (2.5*tsu_punct_size) shifted (250,760);
912   unFill reverse fullcircle
913     scaled (2.5*tsu_punct_size-120*tsu_brush_max.brletter) shifted (250,760);
914 endtsuglyph;
```

U+00B1
tsuku.plusminus

00



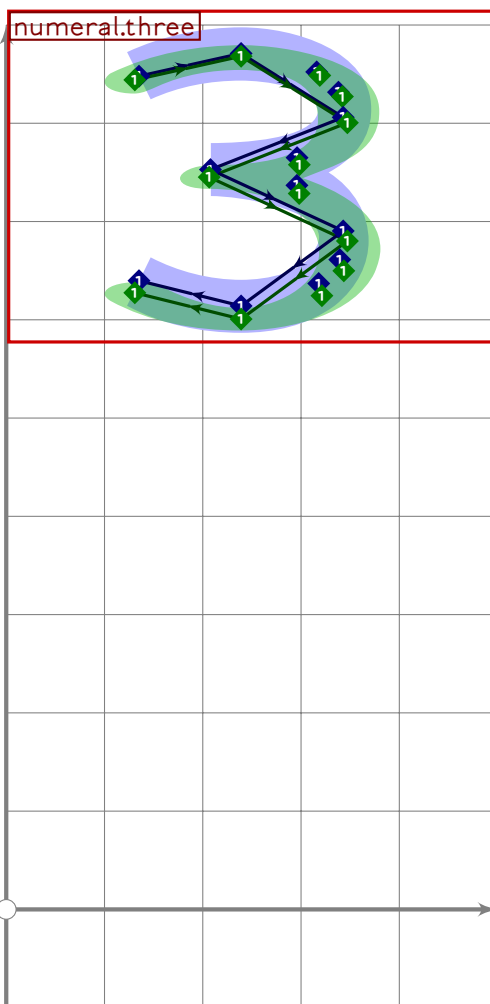
```
915
916 begint Suglyph("plusminus";177);
917   punct.plusminus(ascii_punct_xf);
918   tsu_render;
919 endtsuglyph;
```



```
920
921 begint Suglyph("uni00B2";178);
922   tsu_xform(identity yscaled 0.68 transformed tsu_xf.latin_one_super)(
923     numeral.two);
924   tsu_render;
925 endtsuglyph;
```

U+00B3
tsuku.uni00B3

00



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

[see page 104]

[see page 392]

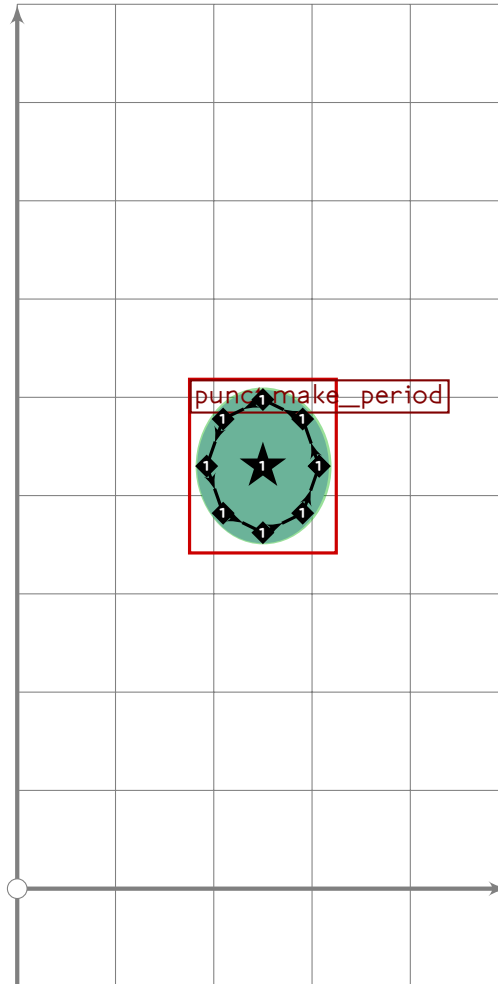
[see page 399]

00

```

947
948 % pilcrow
949 begint Suglyph("paragraph",182);
950   punct.pilcrow;
951   tsu_render;
952 endtsuglyph;
953

```



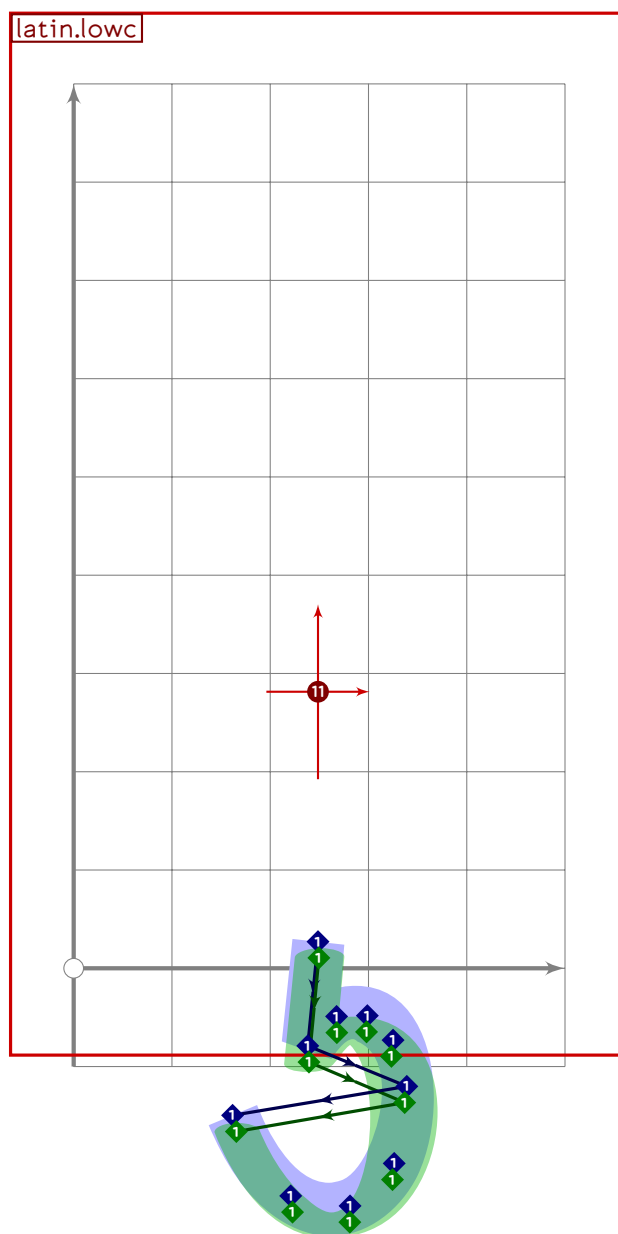
```

954 % period at centre
955 begint Suglyph("periodcentered",183);
956   punct.make__period(centre_pt);
957   tsu_render;
958 endtsuglyph;
959

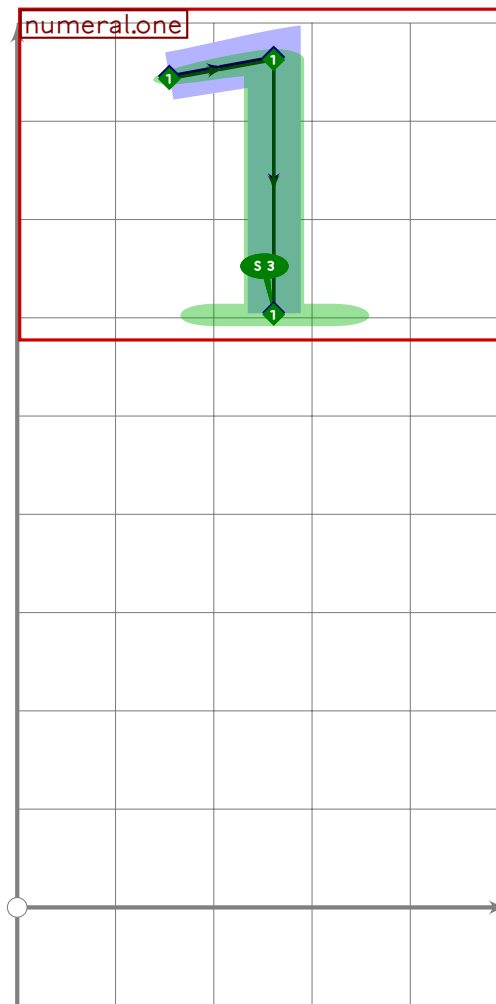
```

U+00B8
tsuku.cedilla

00



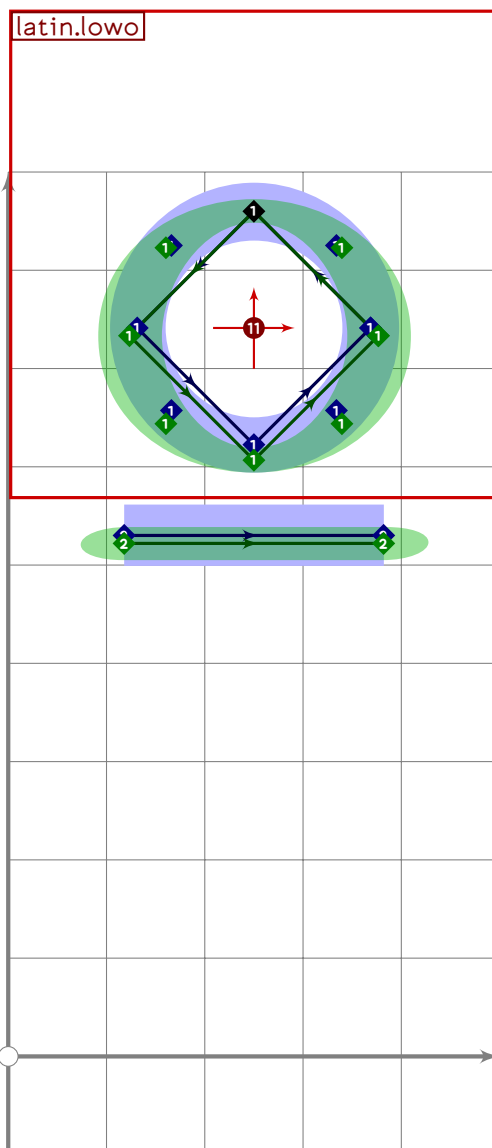
```
960 % naked cedilla
961 begint Suglyph("cedilla",184);
962 tsu_accent.apply(latin.lowc;set_bosize(0,0))(tsu_accent.cedilla);
963 tsu_render;
964 endtsuglyph;
965
966 % WARNING, changing rescale setting
967 tsu_rescale_native_conditional;
```



```

968
969 begintsuglyph("uni00B9";185);
970 tsu_xform(identity yscaled 0.68 transformed tsu_xf.latin_one_super)(
971     numeral.one);
972 tsu_render;
973 endtsuglyph;

```



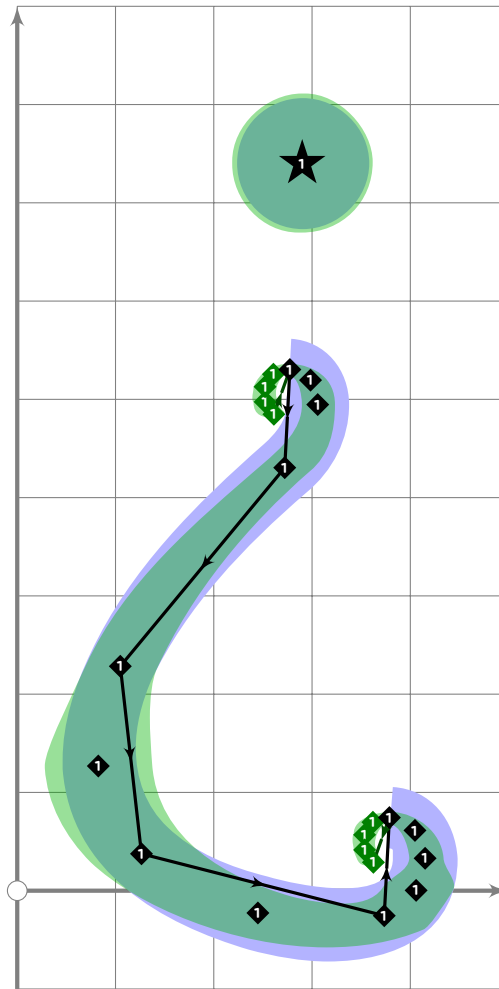
```

974
975 beginsuglyph("ordmasculine",186);
976   tsu_xform(tsu_xf.latin_one_super)(
977     latin.lowo;
978     push_stroke((260,120)-(740,120),(2,2)-(2,2)));
979   tsu_render;
980 endsuglyph;
981
982 % WARNING, changing rescale setting
983 tsu_rescale_half;
984
985 beginsuglyph("guillemotright",187);
986   punct.guillemet_right;
987   tsu_render;
988 endsuglyph;
989
990 % WARNING, changing rescale setting

```

[see page 390]


```
991 tsu_rescale_native_conditional;
992
```



```
993 % question mark
994 begint Suglyph("questiondown",191);
995   if tsu_brush_max.brpunct*100>=(tsu_punct_size*0.5):
996     push_lcblob(fullcircle
997       xscaled ((tsu_punct_size+tsu_brush_max.brpunct*100)*0.89)
998       yscaled ((tsu_punct_size+
999         tsu_brush_max.brpunct*100*tsu_brush_shape.brpunct)*0.89)
1000     rotated tsu_brush_angle.brpunct
1001     shifted (210,40)
1002     rotatedaround ((250,390),180));
1003   else:
1004     push_stroke(fullcircle scaled tsu_punct_size shifted (210,40)
1005       rotatedaround ((250,390),180),
1006       (1,1)..(2,2)..(2,2)..(1,1));
1007   if tsu_brush_max.brpunct>=0.3:
1008     push_lcblob(get_strokep(0));
1009   fi;
1010 fi;
1011 r:=tsu_punct_size/2;
```

```

1012
1013   push_stroke((210,300){right}..(210,300-r){left}..
1014             (210,300+r)..(210+2.5*r,750)..
1015             tension 1.3..(210-2.5*r,750+r)..
1016             (210-2.5*r,750-r){right}..
1017             (210-2.5*r,750){left};
1018   (0.8,0.8)-(1,1)-(2,2)-(2,2)-(2,2)-(2,2)-(1,1)-(0.8,0.8));
1019   replace_stroke(0)(insert_nodes(olddp)(2.5)
1020     rotatedaround ((210,10),3) rotatedaround ((250,390),180));
1021
1022   tsu_render;
1023 endtsuglyph;
1024
1025 

---


1026

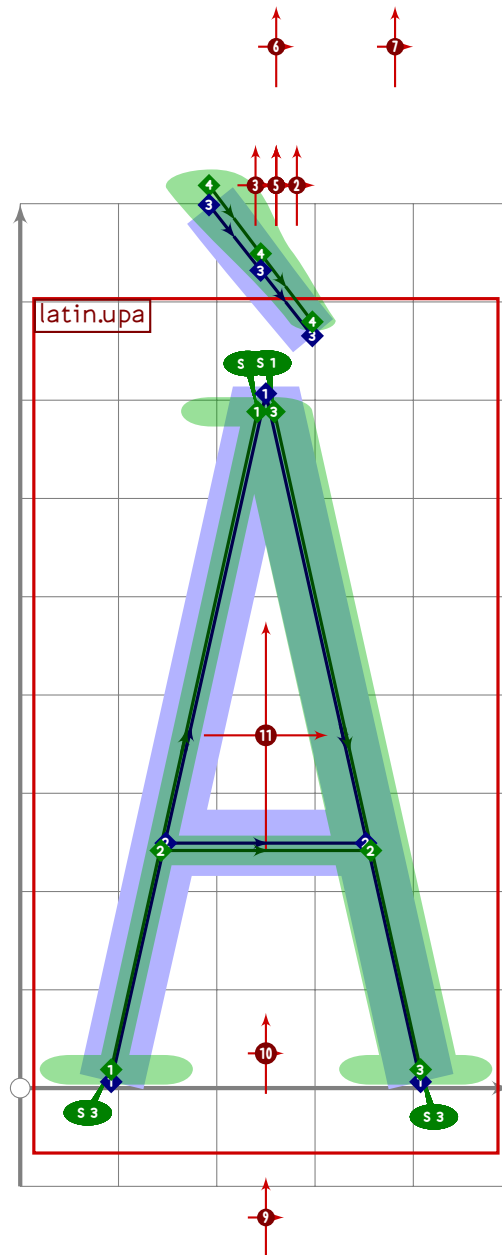
```

Accented Latin

```

1027 % ACCENTED LATIN
1028
1029 % WARNING, setting rescale
1030 tsu_rescale_half;
1031 tsu_accent.up_default_anchors;
1032

```



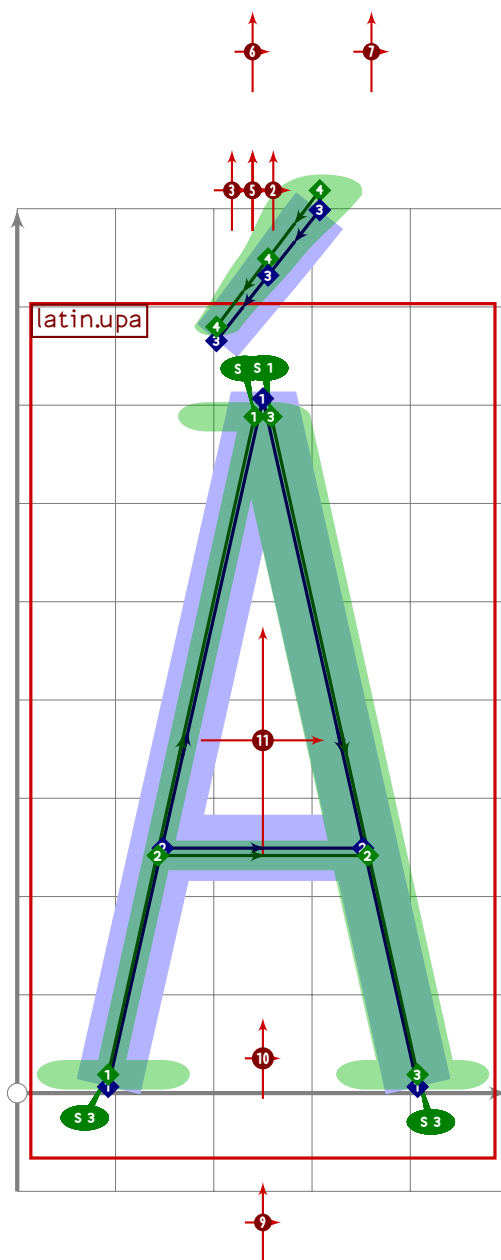
```

1033 % A with grave
1034 begintsuglyph("Agrave";192);
1035   tsu_accent.apply(tsu_accent.capital(latin.upa))(tsu_accent.grave);
1036   tsu_render;
1037 endtsuglyph;
1038

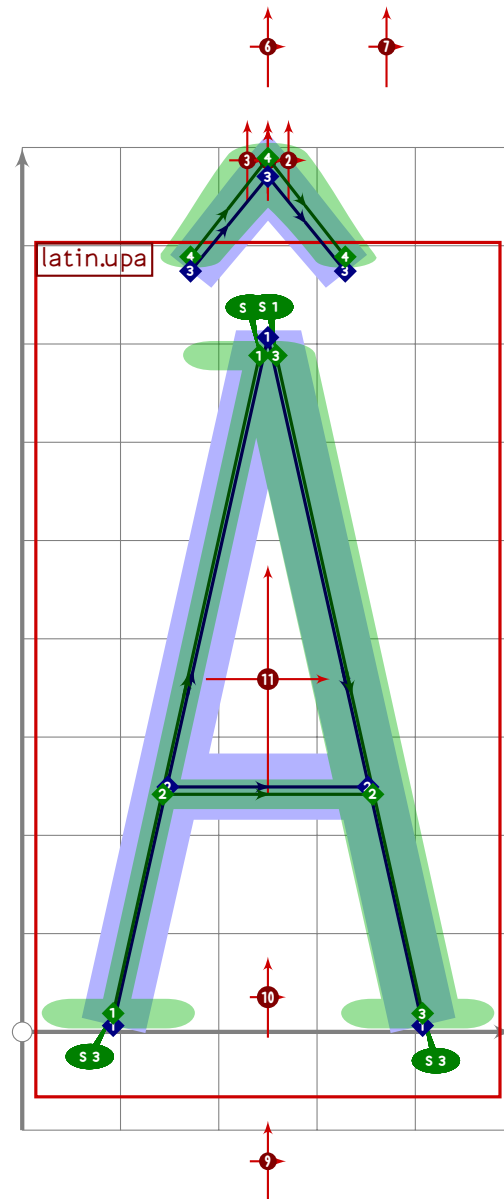
```

U+00C1
tsuku.Aacute

00



```
1039 % A with acute
1040 begintsuglyph("Aacute";193);
1041   tsu_accent.apply(tsu_accent.capital(latin.upa))(tsu_accent.acute);
1042   tsu_render;
1043 endtsuglyph;
1044
```



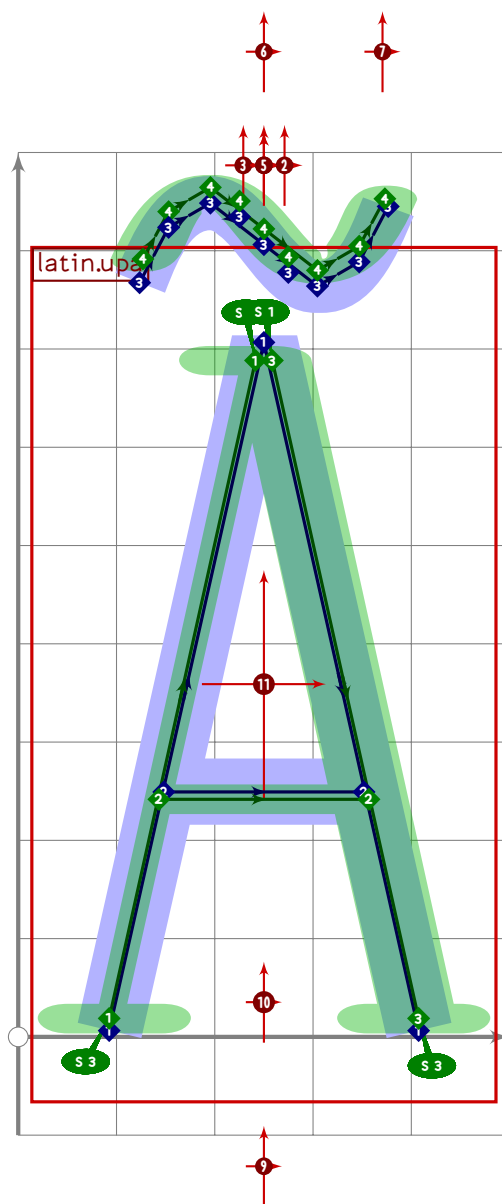
```

1045 % A with circumflex
1046 begintsuglyph("Acircumflex";194);
1047   tsu_accent.apply(tsu_accent.capital(latin.upa))(tsu_accent.circumflex);
1048   tsu_render;
1049 endtsuglyph;
1050

```

U+00C3
tsuku.Atilde

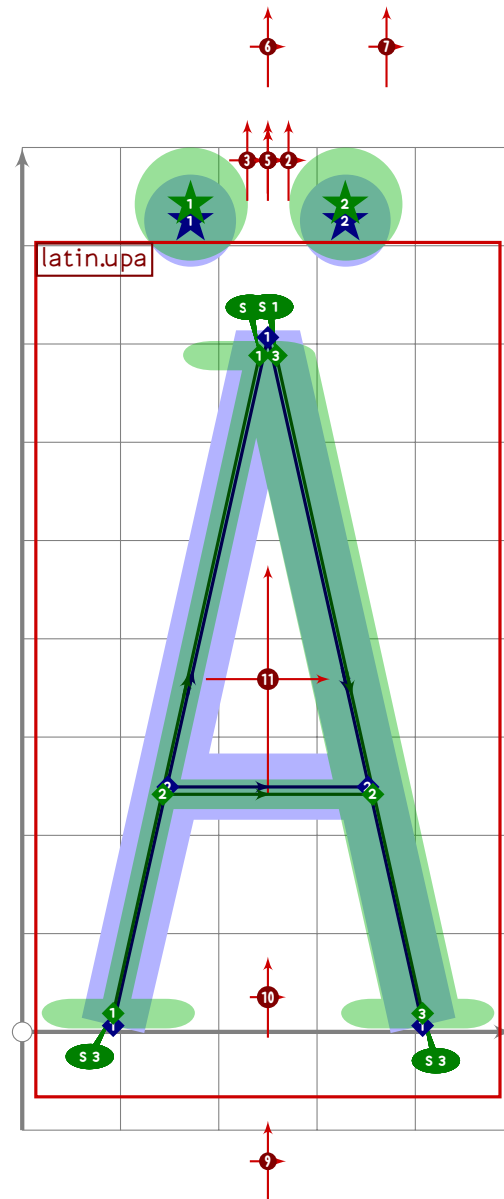
00



```

1051 % A with tilde
1052 beginsuglyph("Atilde",195);
1053   tsu_accent.apply(tsu_accent.capital(latin.upa))(tsu_accent.tilde);
1054   tsu_render;
1055 endtsuglyph;
1056

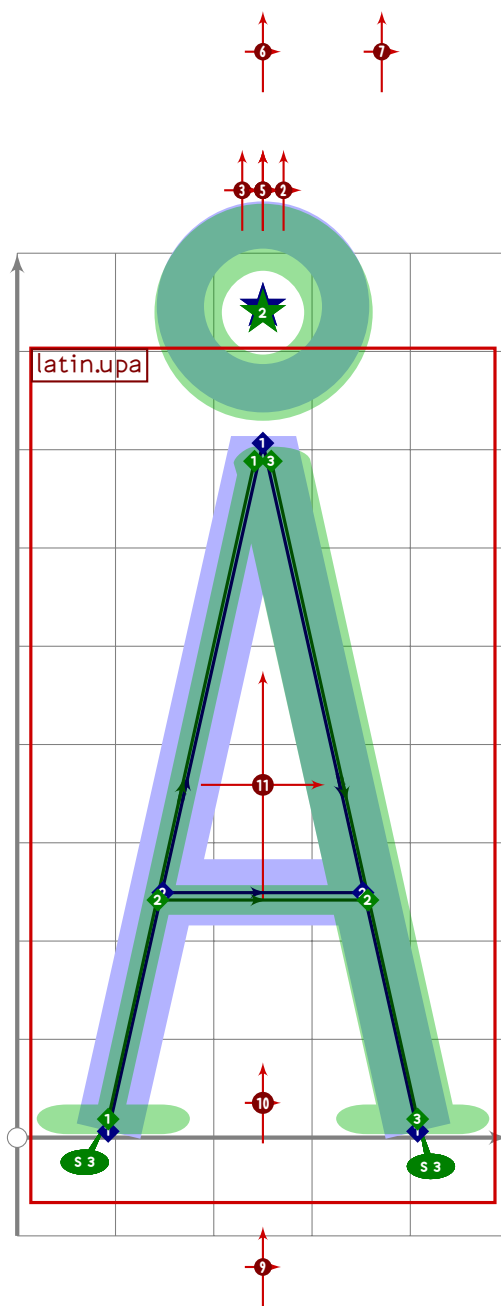
```



```

1057 % A with dieresis/umlaut
1058 begintsuglyph("Adieresis",196);
1059   tsu_accent.apply(tsu_accent.capital(latin.upa))(tsu_accent.umlaut);
1060   tsu_render;
1061 endtsuglyph;
1062

```



```

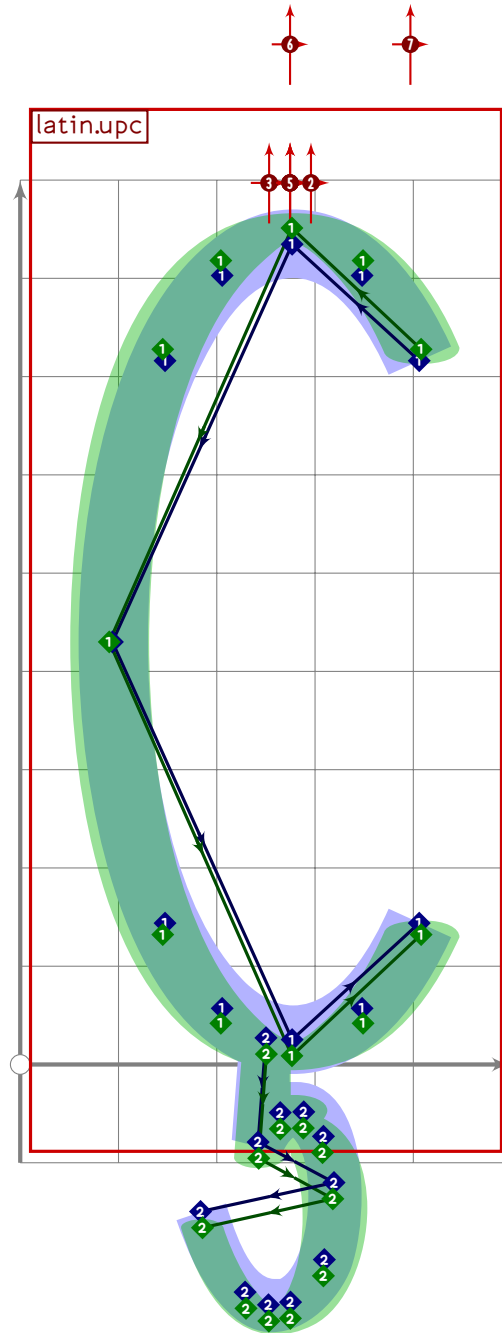
1063 % A with ring above
1064 begint Suglyph("Aring",197);
1065   tsu_accnt.apply(tsu_accnt.capital(latin.upa))(tsu_accnt.ringabove);
1066   if do_alteration:
1067     set_boserif(-2,1,whatever);
1068     set_boserif(0,0,whatever);
1069   else:
1070     set_boserif(-1,1,whatever);
1071   fi;
1072   tsu_render;
1073 endtsuglyph;
1074
1075 % AE ligature

```

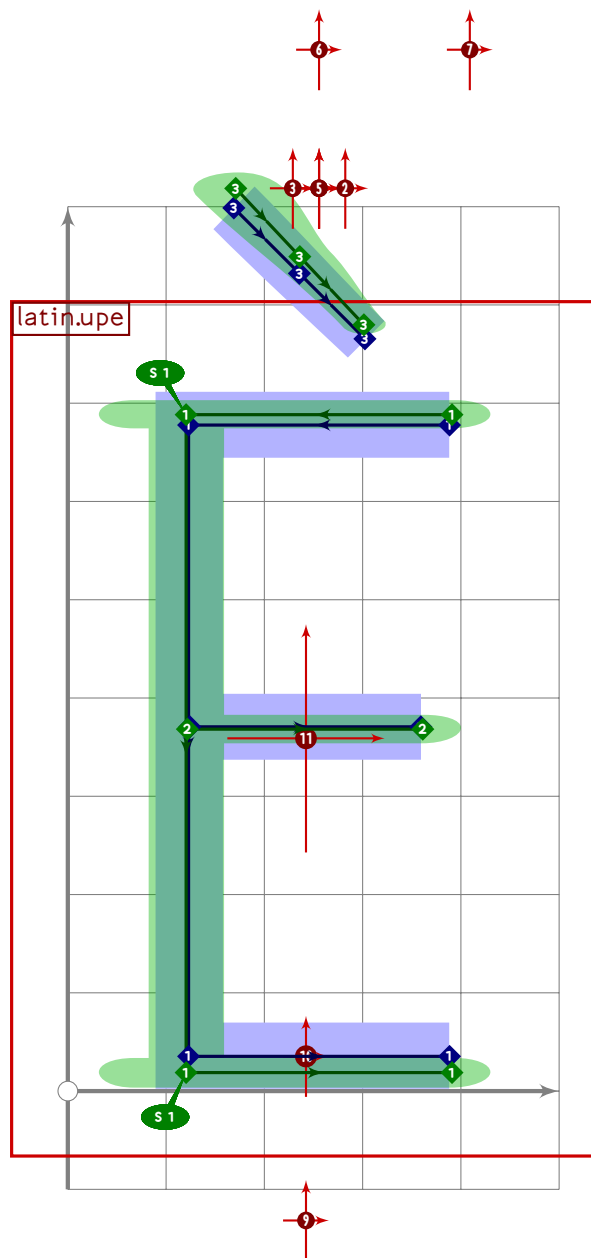

[see page 260]

00

```
1076 begint Suglyph("AE",198);
1077 latin.upae;
1078 tsu_render;
1079 endtsuglyph;
1080
```



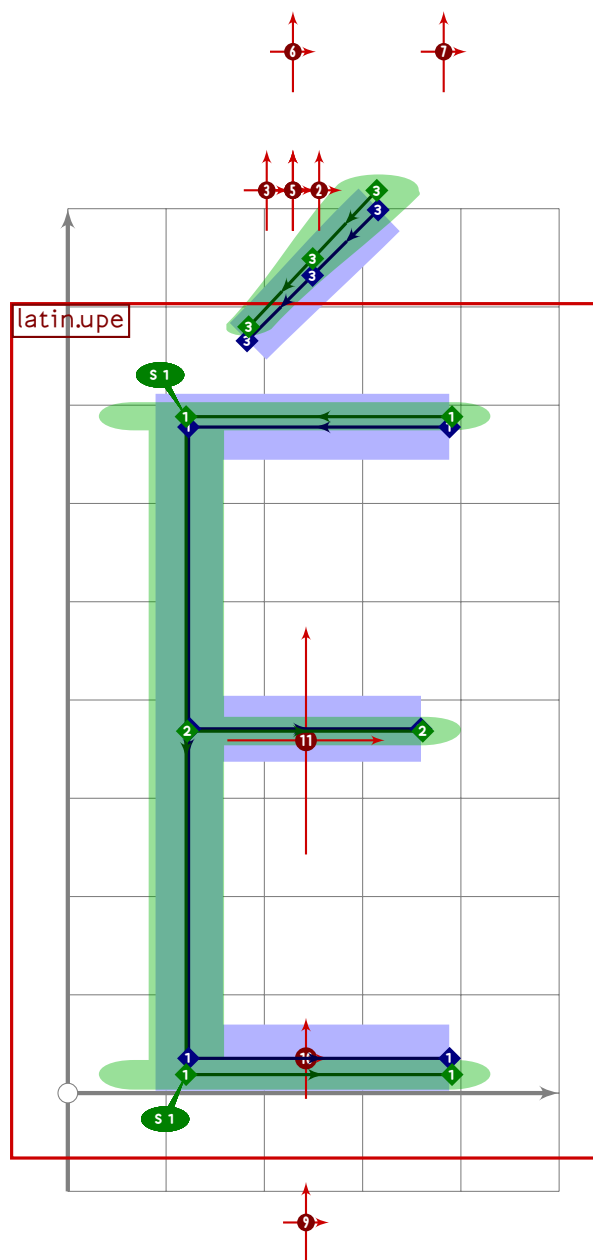
```
1081 % C with cedilla
1082 begint Suglyph("Ccedilla",199);
1083 tsu_accent.apply(latin.upc)(tsu_accent.cedilla);
1084 tsu_render;
1085 endtsuglyph;
1086
```



```

1087 % E with grave
1088 begintsuglyph("Egrave";200);
1089 tsu_accent.apply(tsu_accent.capital(latin.upe))(tsu_accent.grave);
1090 tsu_render;
1091 endtsuglyph;
1092

```



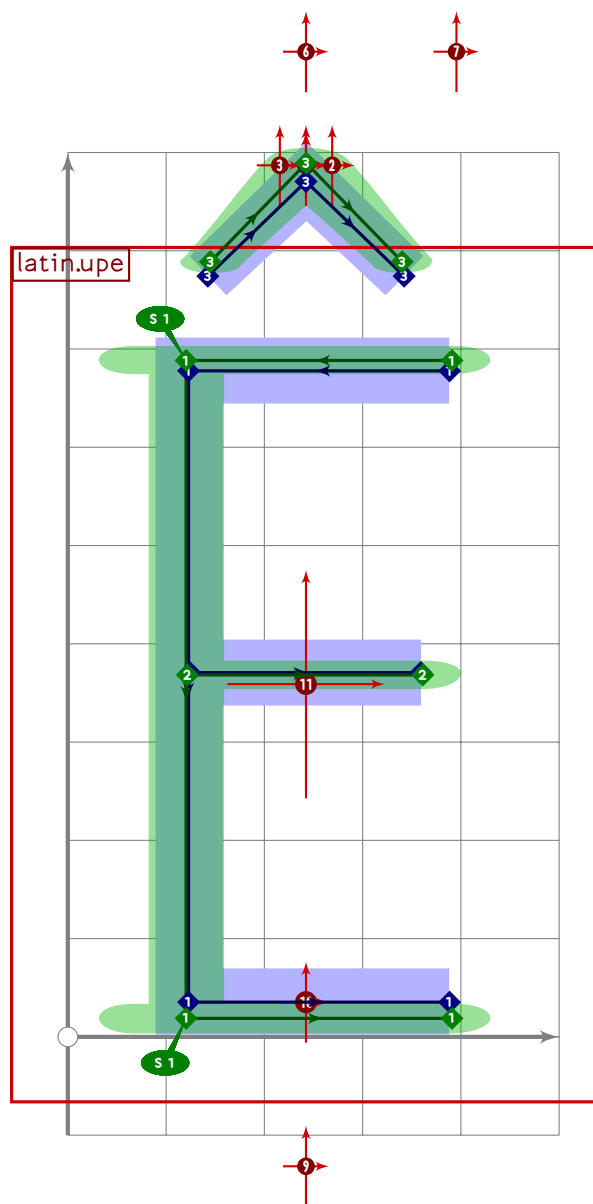
```

1093 % E with acute
1094 begintsuglyph("Eacute";201);
1095   tsu_accent.apply(tsu_accent.capital(latin.upe))(tsu_accent.acute);
1096   tsu_render;
1097 endtsuglyph;
1098

```

U+00CA
tsuku.Ecircumflex

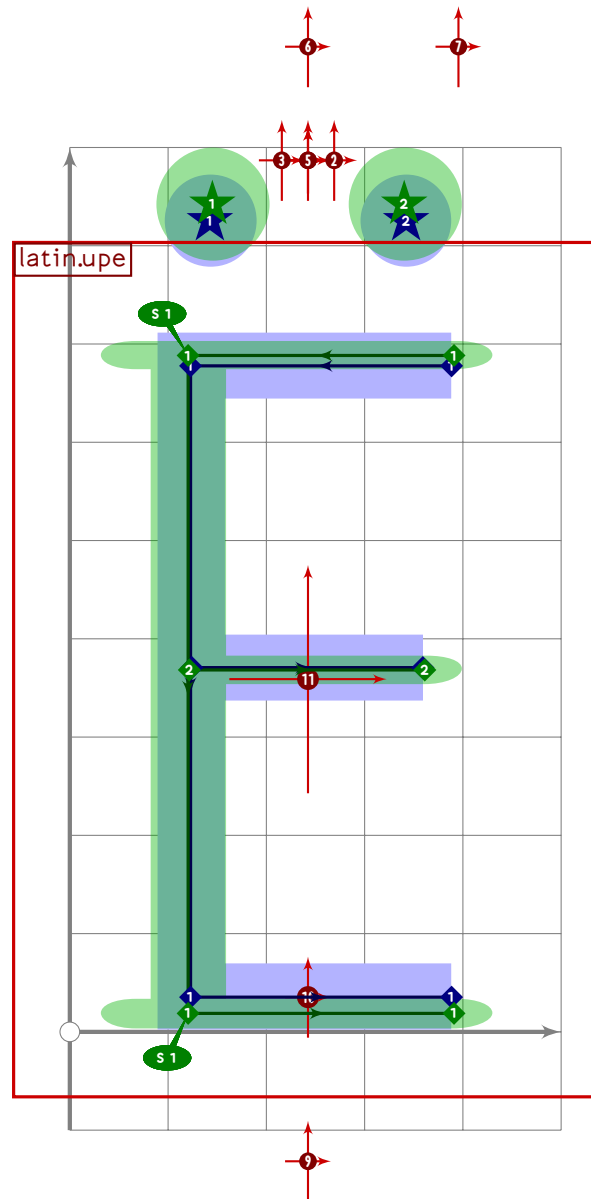
00



```

1099 % E with circumflex
1100 begintsuglyph("Ecircumflex";202);
1101   tsu_accent.apply(tsu_accent.capital(latin.upe))(tsu_accent.circumflex);
1102   tsu_render;
1103 endtsuglyph;
1104

```



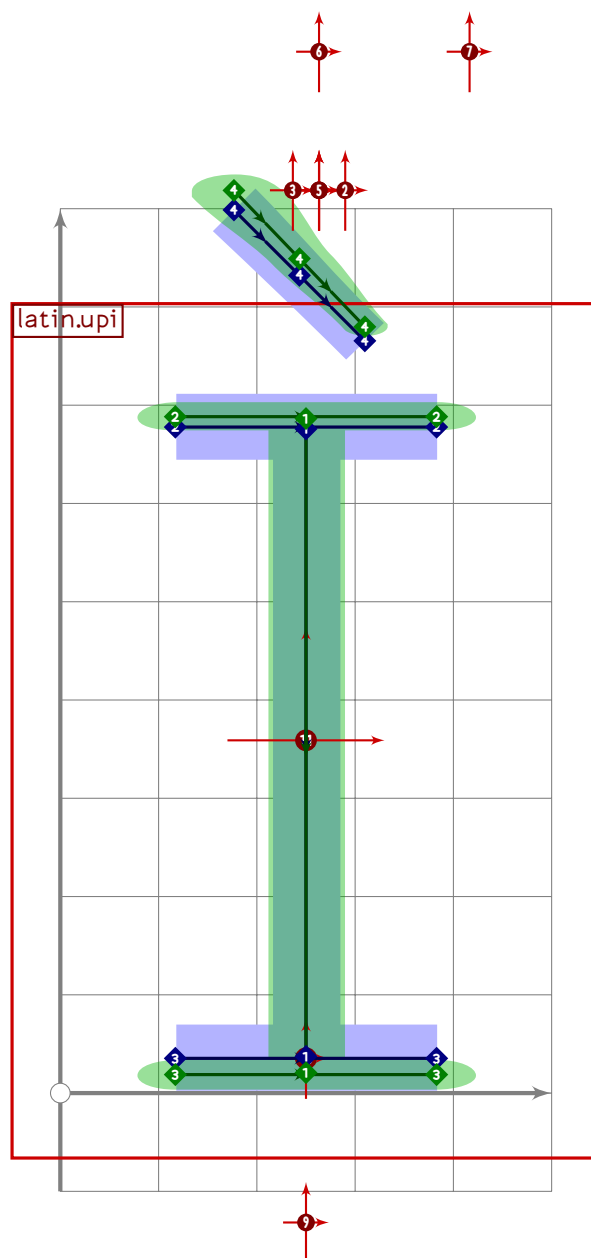
```

1105 % E with dieresis/umlaut
1106 begintsuglyph("Edieresis";203);
1107   tsu_accent.apply(tsu_accent.capital(latin.upe))(tsu_accent.umlaut);
1108   tsu_render;
1109 endtsuglyph;
1110

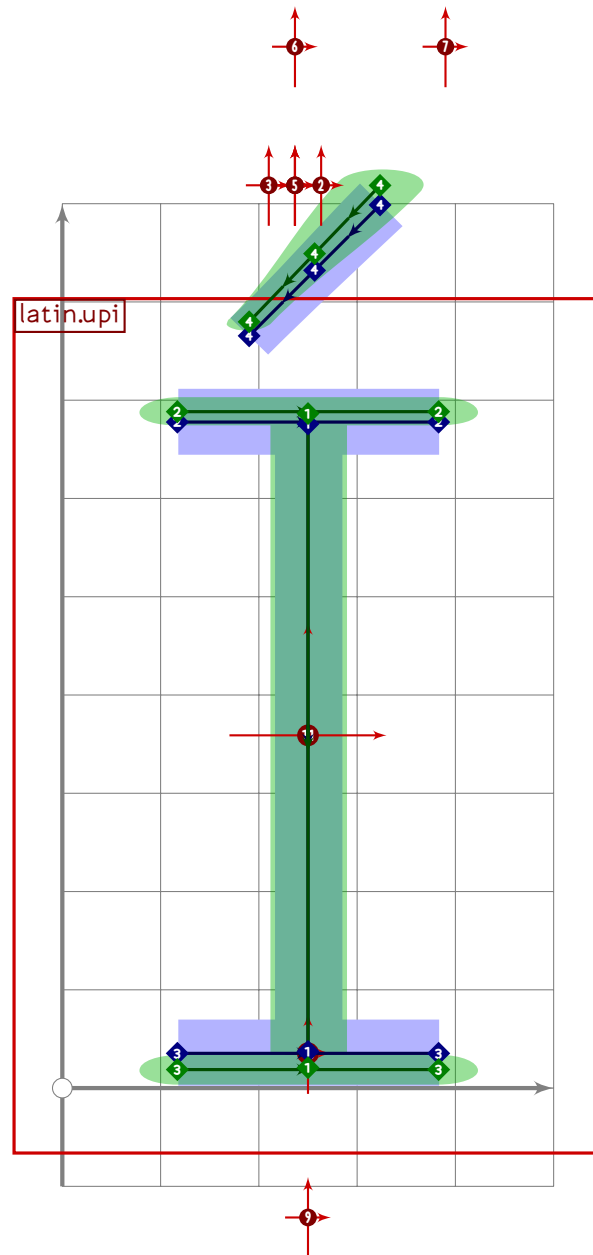
```

U+00CC
tsuku.Igrave

00



```
1111 % I with grave
1112 begintsuglyph("Igrave";204);
1113   tsu_accent.apply(tsu_accent.capital(latin.upi))(tsu_accent.grave);
1114   tsu_render;
1115 endtsuglyph;
1116
```

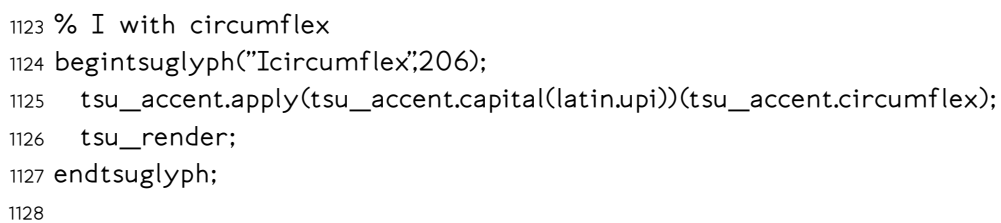


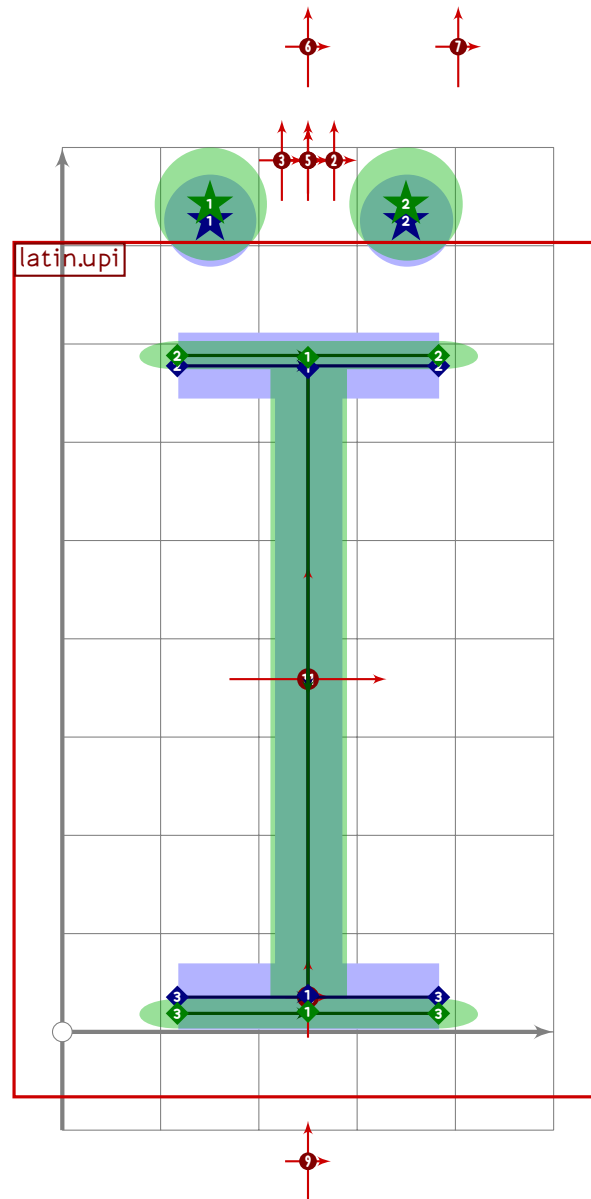
```

1117 % I with acute
1118 begintsuglyph("Iacute";205);
1119   tsu_accent.apply(tsu_accent.capital(latin.upi))(tsu_accent.acute);
1120   tsu_render;
1121 endtsuglyph;
1122

```

00





```

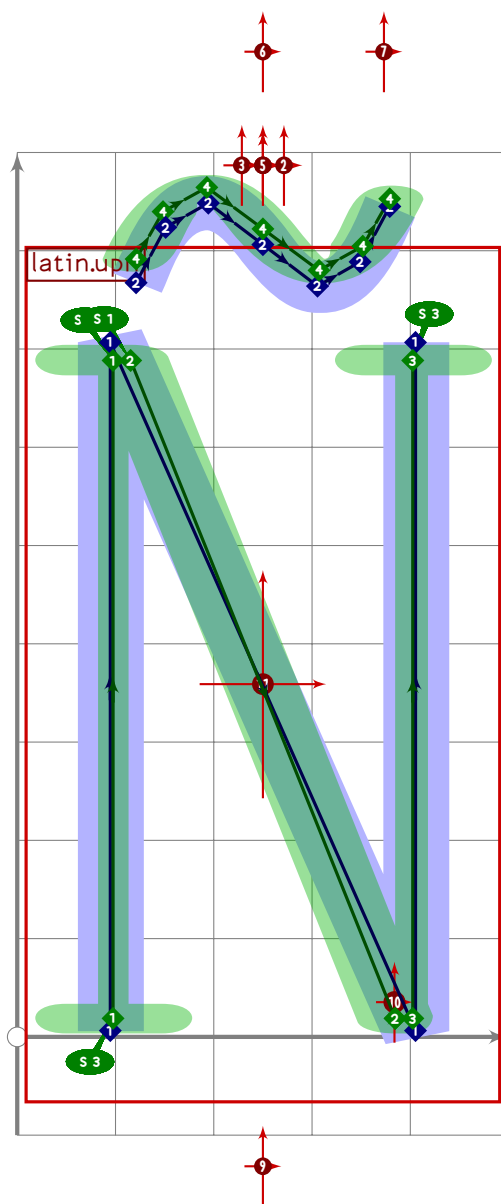
1129 % I with dieresis/umlaut
1130 begintsuglyph("Idieresis",207);
1131   tsu_accent.apply(tsu_accent.capital(latin.upi))(tsu_accent.umlaut);
1132   tsu_render;
1133 endtsuglyph;
1134
1135 % uppercase Icelandic Eth
1136 begintsuglyph("Eth",208);
1137   latin.upeth;
1138   tsu_render;
1139 endtsuglyph;
1140

```

[see page 266]

U+00D1
tsuku.Ntilde

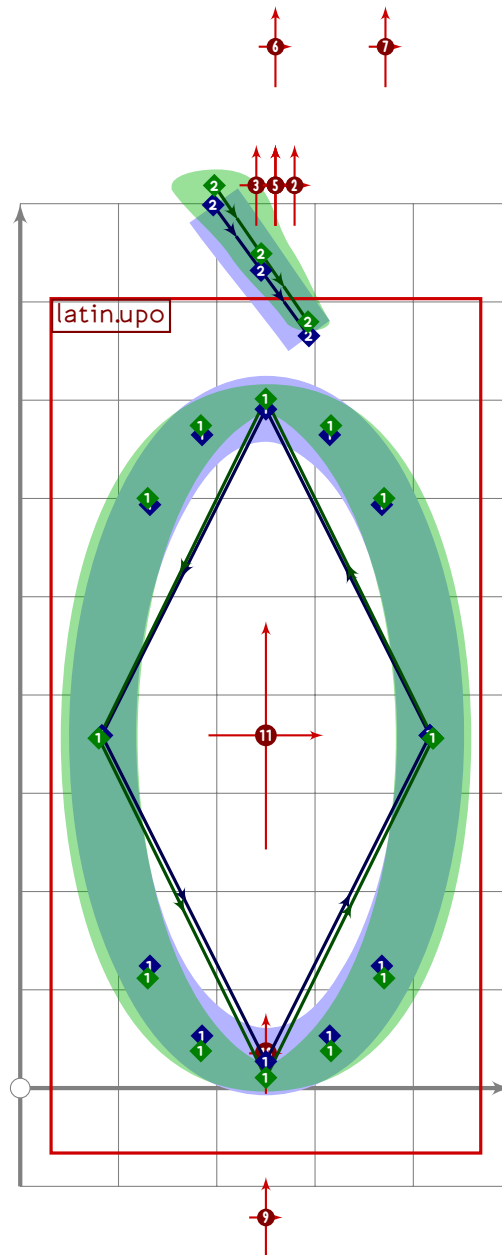
00



```

1141 % N with tilde
1142 begintsuglyph("Ntilde";209);
1143   tsu_accent.apply(tsu_accent.capital(latin.upn))(tsu_accent.tilde);
1144   tsu_render;
1145 endtsuglyph;
1146

```

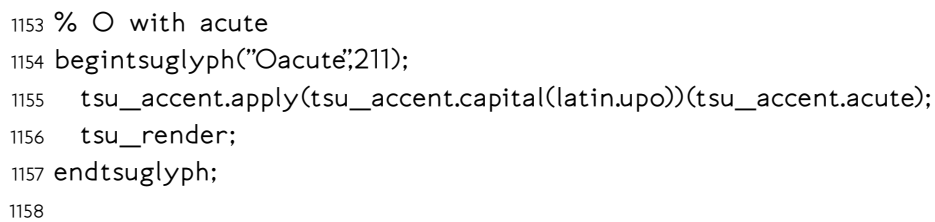


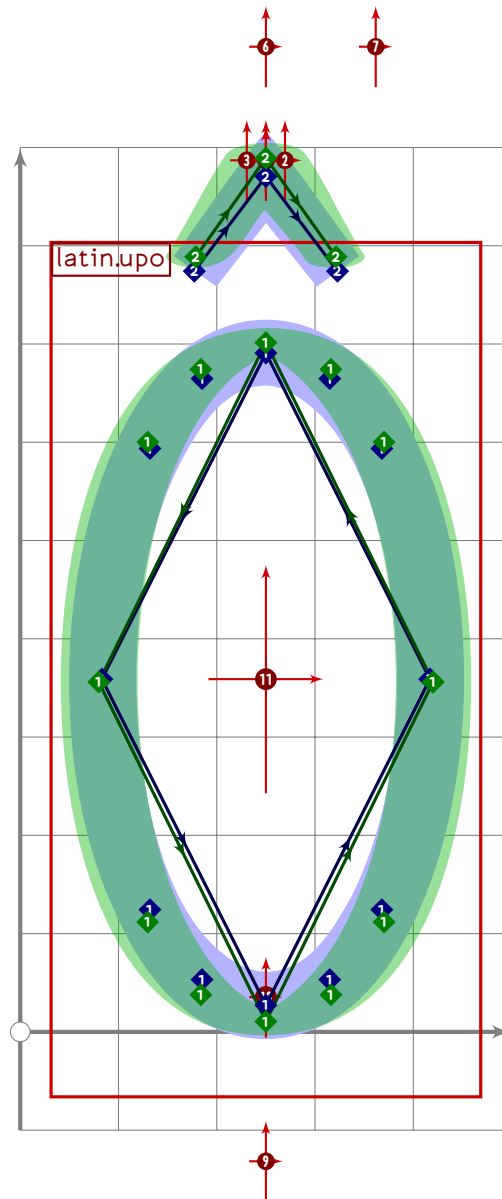
```

1147 % O with grave
1148 begintsuglyph("Ograve";210);
1149   tsu_accent.apply(tsu_accent.capital(latin.upo))(tsu_accent.grave);
1150   tsu_render;
1151 endtsuglyph;
1152

```

00





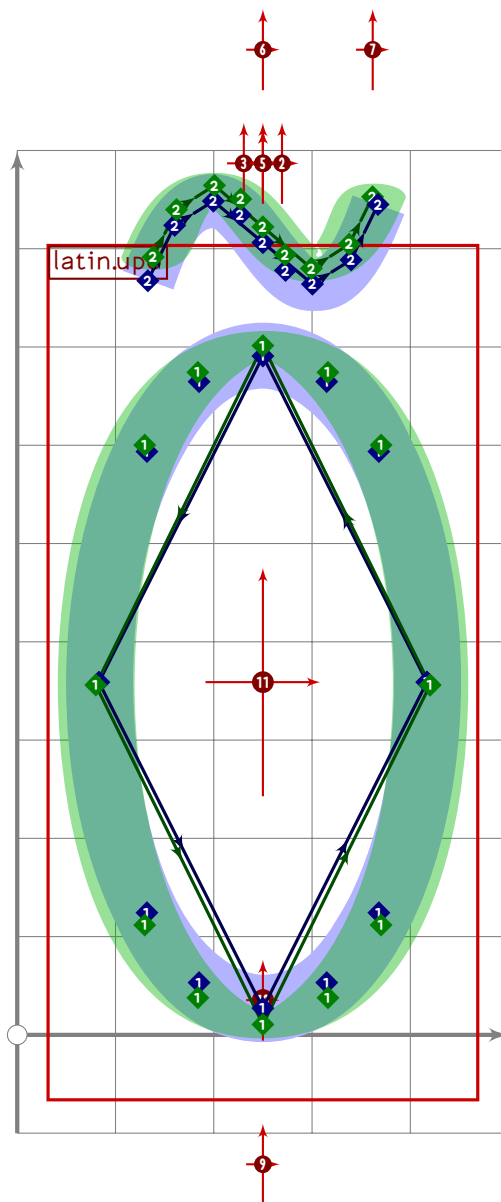
```

1159 % O with circumflex
1160 begintsuglyph("Ocircumflex";212);
1161   tsu_accent.apply(tsu_accent.capital(latin.upo))(tsu_accent.circumflex);
1162   tsu_render;
1163 endtsuglyph;
1164

```

U+00D5
tsuku.Otilde

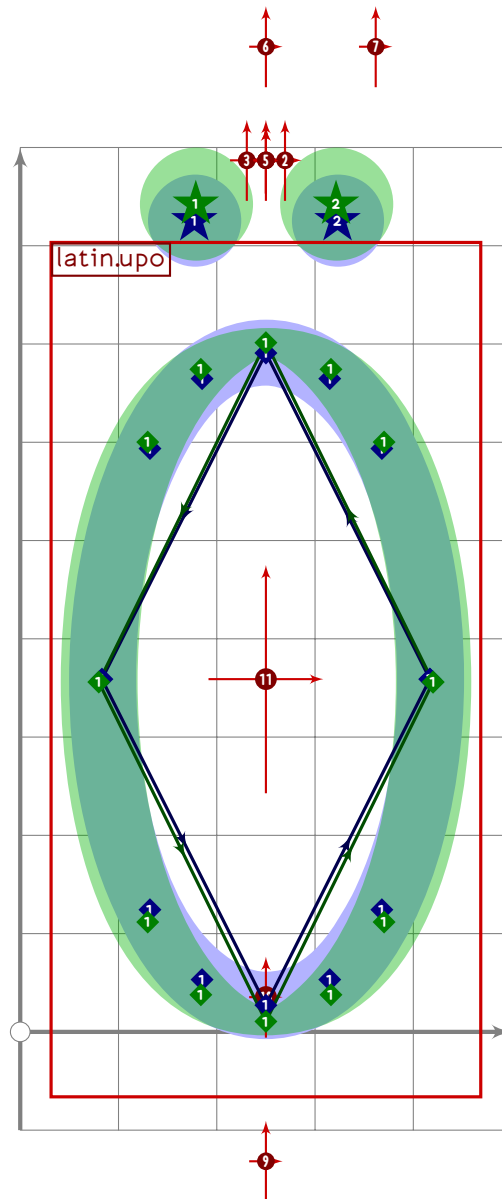
00



```

1165 % O with tilde
1166 begintsuglyph("Otilde";213);
1167   tsu_accent.apply(tsu_accent.capital(latin.upo))(tsu_accent.tilde);
1168   tsu_render;
1169 endtsuglyph;
1170

```



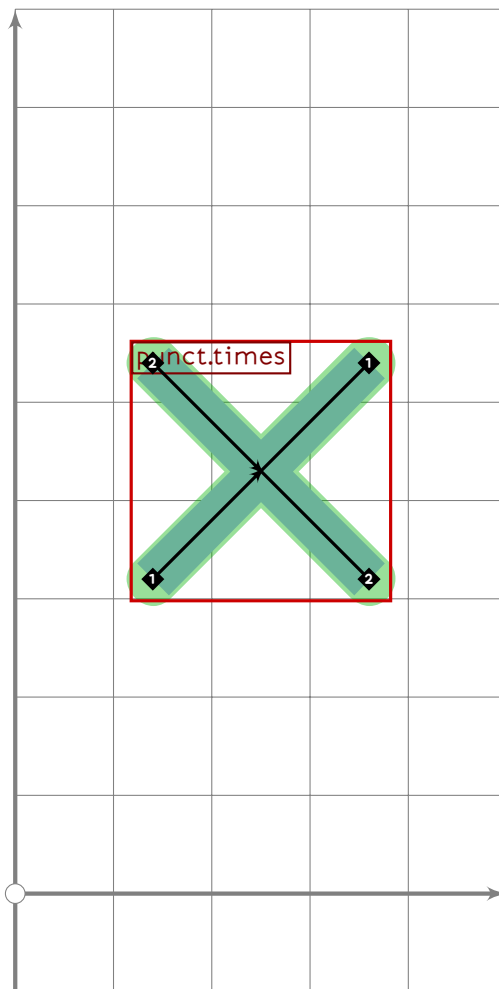
```

1171 % O with dieresis/umlaut
1172 begintsuglyph("Odieresis";214);
1173   tsu_accent.apply(tsu_accent.capital(latin.upo))(tsu_accent.umlaut);
1174   tsu_render;
1175 endtsuglyph;
1176
1177 % times
1178 tsu_accent.clear_default_anchors;
1179 tsu_rescale_native_conditional;

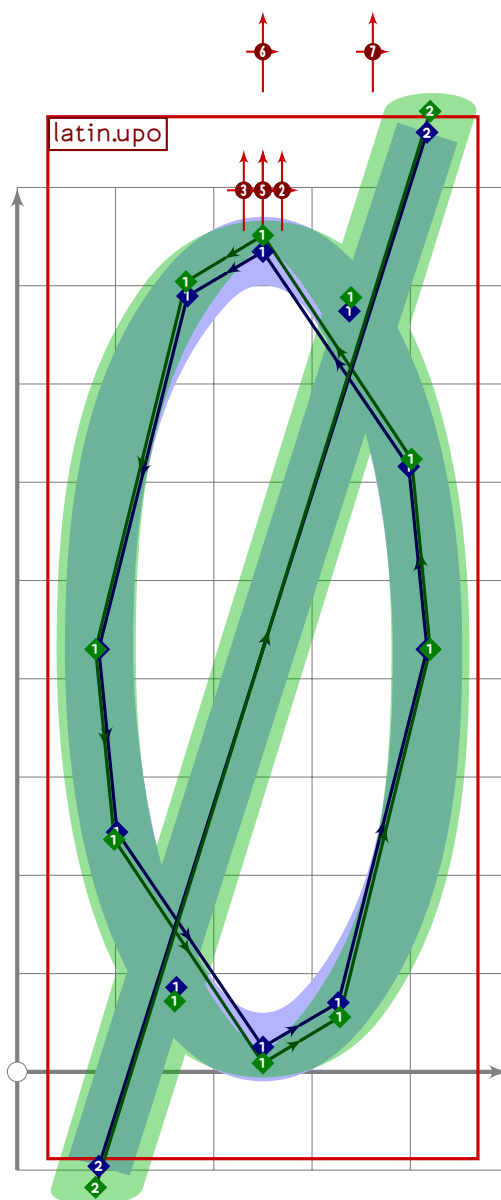
```

U+00D7
tsuku.multiply

00



```
1180 beginsuglyph("multiply";215);
1181   punct.times(ascii_punct_xf);
1182   tsu_render;
1183 endsuglyph;
1184 tsu_rescale_half;
1185 tsu_accent.up_default_anchors;
1186
```

00

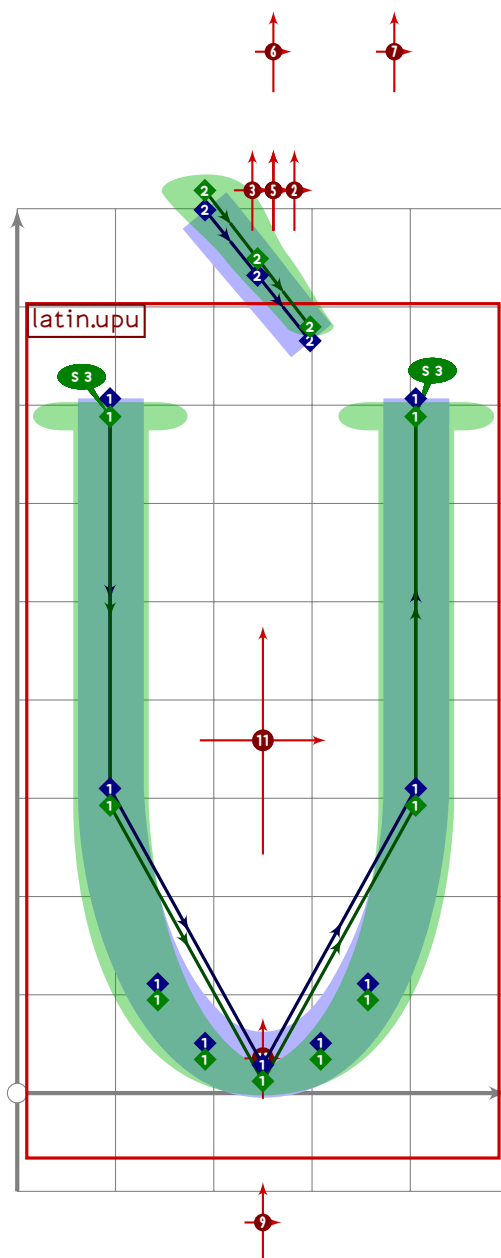
```

1187 % O with stroke
1188 begint Suglyph("Oslash";216);
1189   tsu_accent.apply(latin.upo)(tsu_accent.slash);
1190   replace_strokep(-1)(insert_nodes(oldp)(0.3,1.3,2.3,3.3));
1191   replace_strokeq(-1)(insert_nodes(oldq)(0.3,1.3,2.3,3.3));
1192   tsu_render;
1193 endtsuglyph;
1194

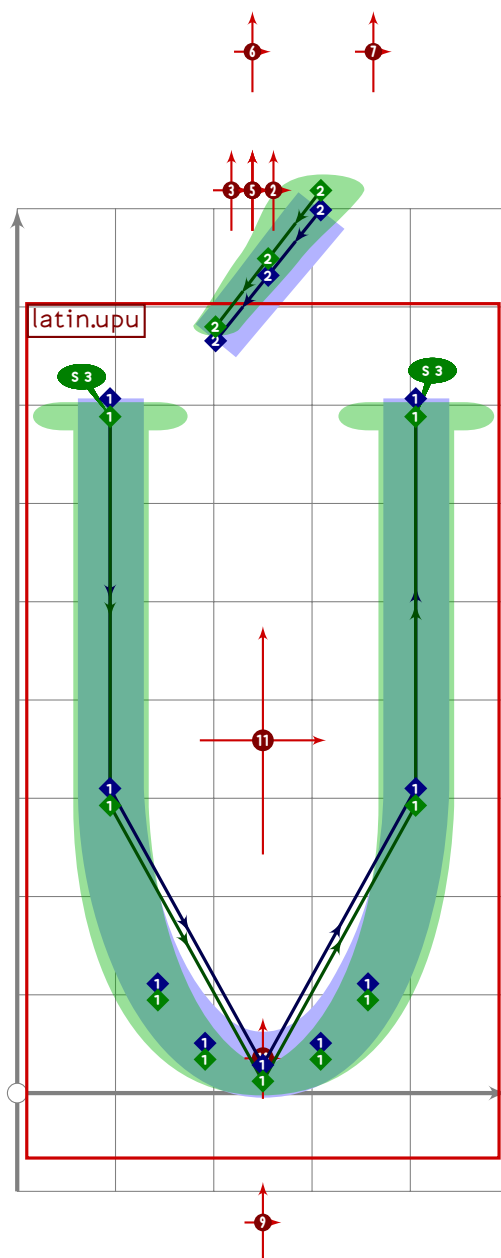
```

U+00D9
tsuku.Ugrave

00



```
1195 % U with grave
1196 begintsuglyph("Ugrave";217);
1197 tsu_accent.apply(tsu_accent.capital(latin.upu))(tsu_accent.grave);
1198 tsu_render;
1199 endtsuglyph;
1200
```

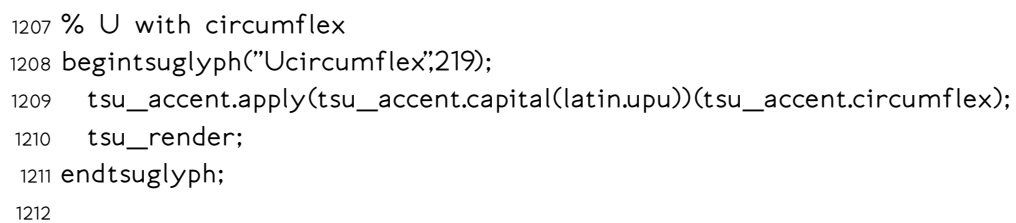


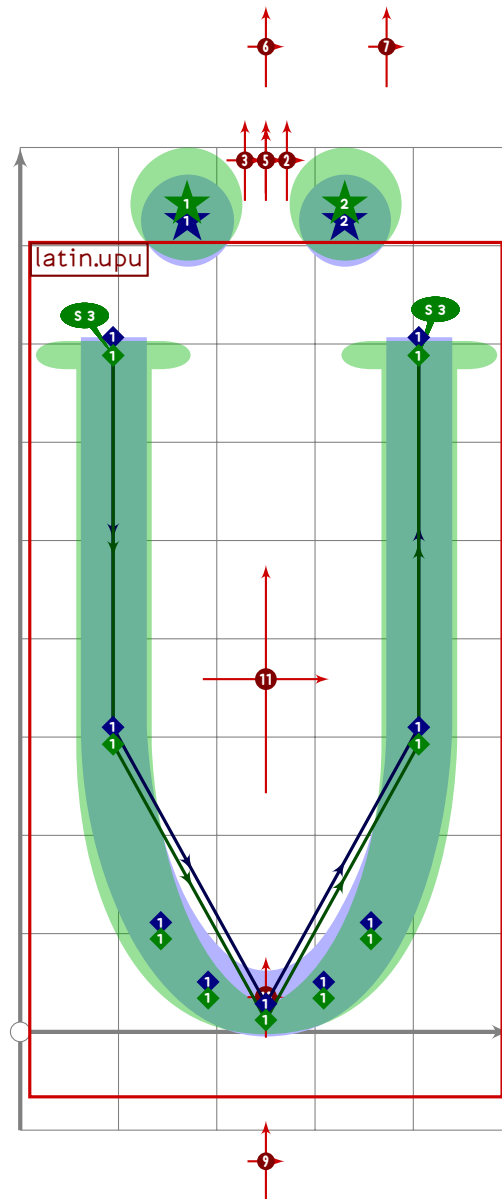
```

1201 % U with acute
1202 begintsuglyph("Uacute";218);
1203   tsu_accent.apply(tsu_accent.capital(latin.upu))(tsu_accent.acute);
1204   tsu_render;
1205 endtsuglyph;
1206

```

00

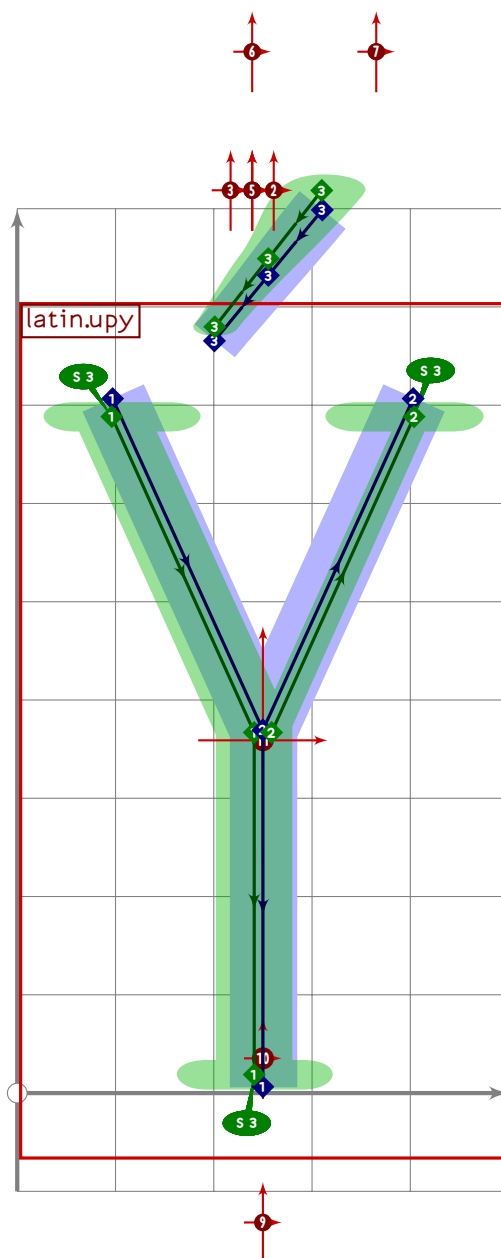




```

1213 % U with dieresis/umlaut
1214 begintsuglyph("Udieresis";220);
1215   tsu_accent.apply(tsu_accent.capital(latin.upu))(tsu_accent.umlaut);
1216   tsu_render;
1217 endtsuglyph;
1218

```



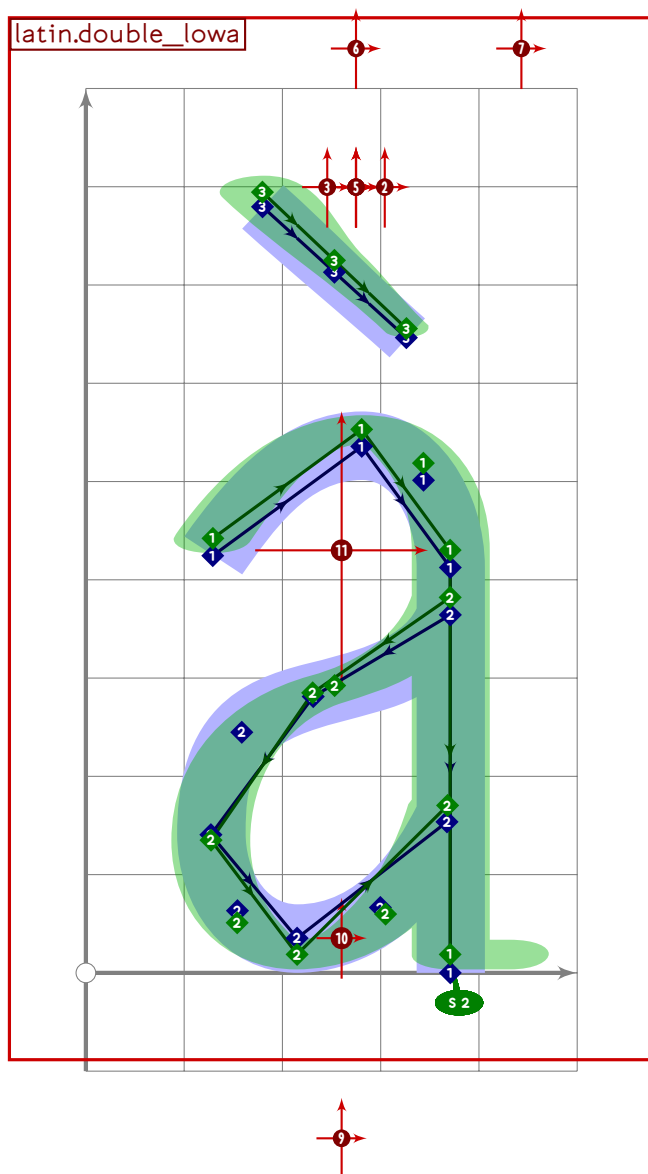
```

1219 % Y with acute
1220 begintsuglyph("Yacute";221);
1221   tsu_accent.apply(tsu_accent.capital(latin.upy))(tsu_accent.acute);
1222   tsu_render;
1223 endtsuglyph;
1224
1225 % uppercase Thorn
1226 begintsuglyph("Thorn";222);
1227   latin.upthorn;
1228   tsu_render;
1229 endtsuglyph;
1230
1231 tsu_accent.low_default_anchors;
1232

```

[see page 291]

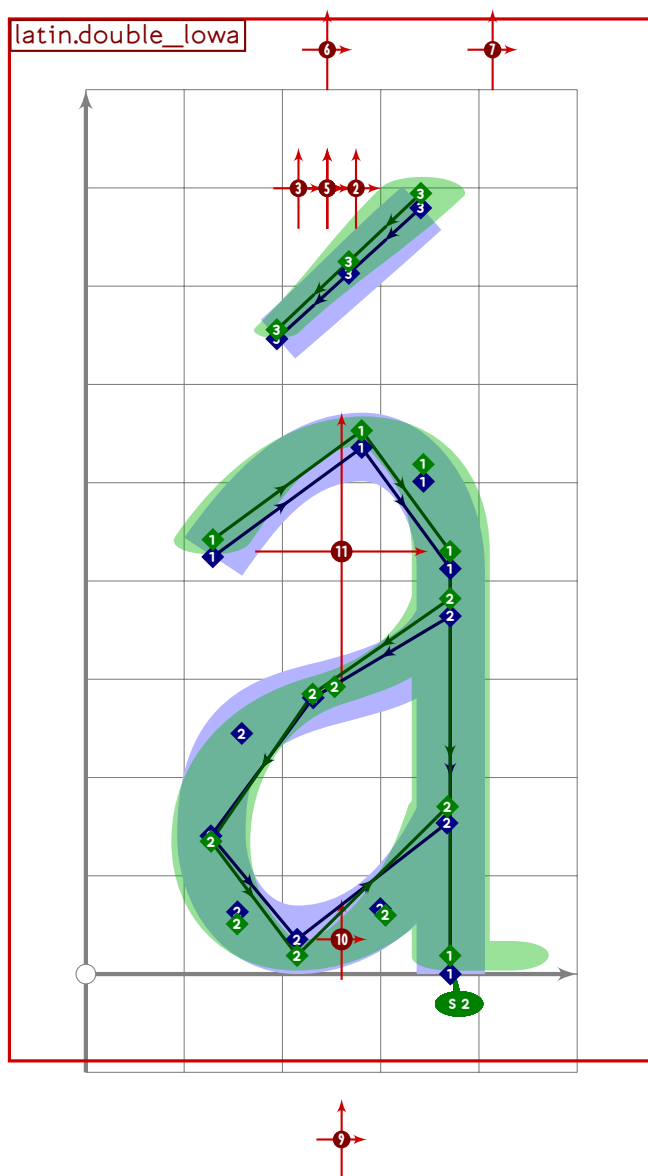
[see page 309]



1255

U+00E1
tsuku.aacute

00



```

1245 % a with acute
1246 begintzuglyph("aacute";225);
1247   tsu_accent.apply(latin.lowa)(tsu_accent.acute);
1248   tsu_render;
1249 endtsuglyph;
1250

```



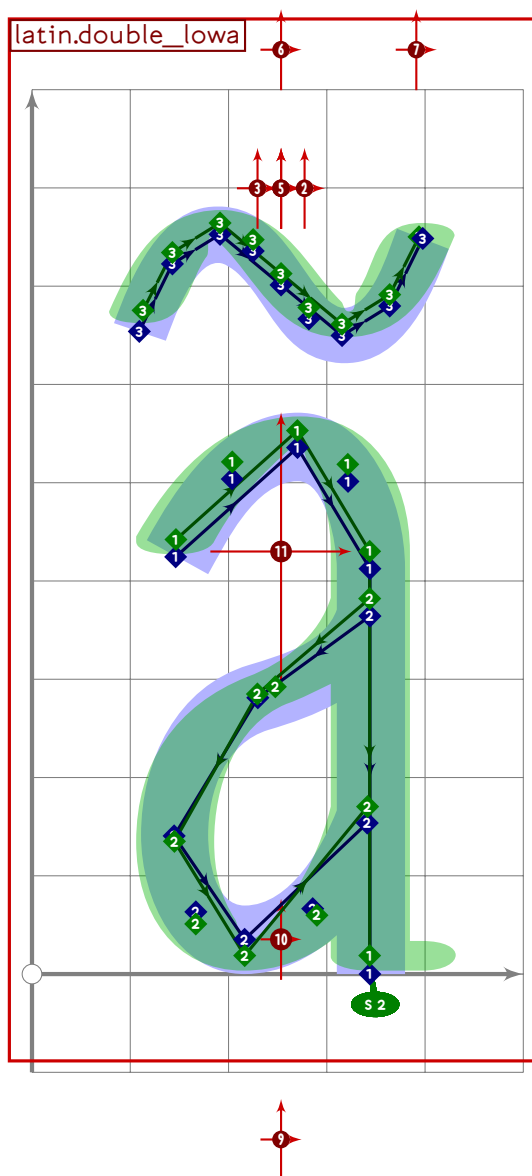

```

1251 % a with circumflex
1252 begintsuglyph("acircumflex";226);
1253   tsu__accent.apply(latin.lowa)(tsu__accent.circumflex);
1254   tsu__render;
1255 endtsuglyph;
1256

```

U+00E3
tsuku.atilde

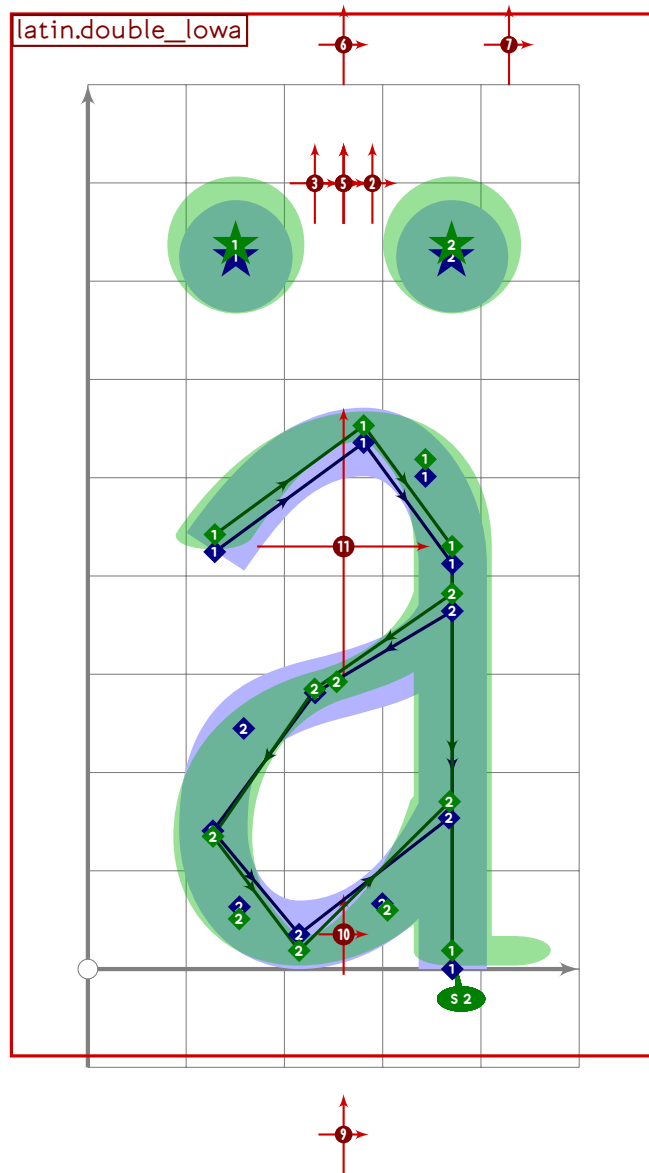
00



```

1257 % a with tilde
1258 begintzuglyph("atilde";227);
1259   tsu_accent.apply(latin.lowa)(tsu_accent.tilde);
1260   tsu_render;
1261 endtsuglyph;
1262

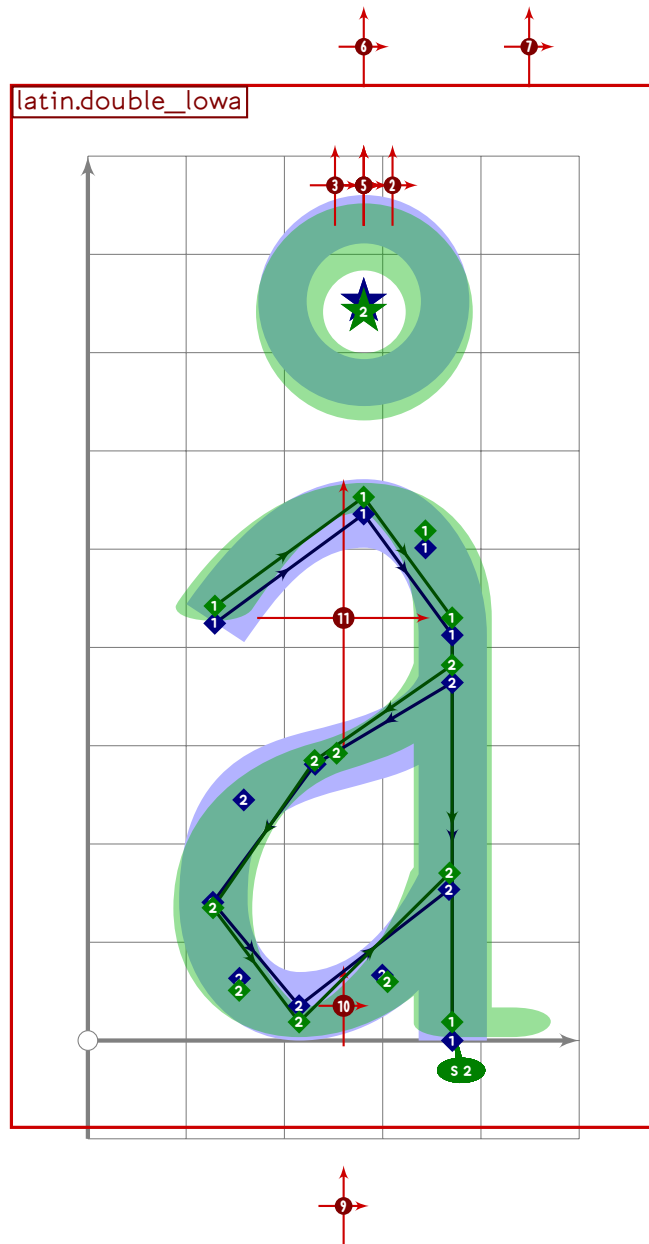
```



```

1263 % a with dieresis/umlaut
1264 begint Suglyph("adieresis";228);
1265   tsu_accent.apply(latin. lowa)(tsu_accent. umlaut);
1266   tsu_ render;
1267 endtsuglyph;
1268

```

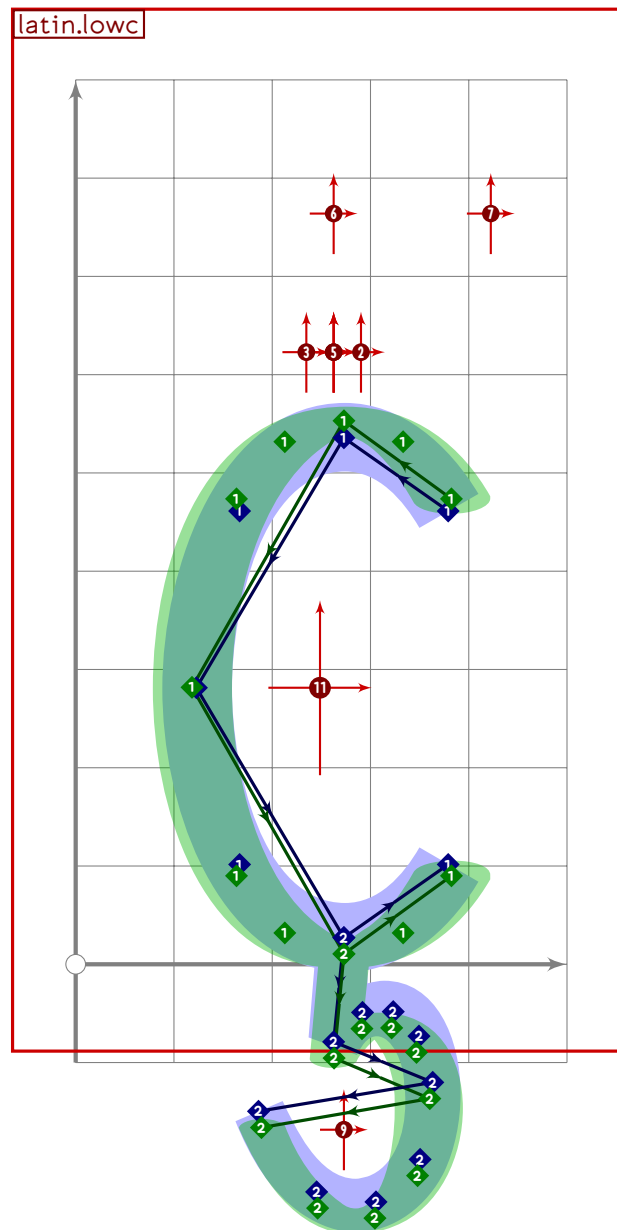


```

1269 % a with ring above
1270 begintsuglyph("aring",229);
1271   tsu_accent.apply(latin.lowae)(tsu_accent.ringabove);
1272   tsu_render;
1273 endtsuglyph;
1274
1275 % ae ligature
1276 begintsuglyph("ae",230);
1277   latin.lowae;
1278   tsu_render;
1279 endtsuglyph;
1280

```

[see page 302]



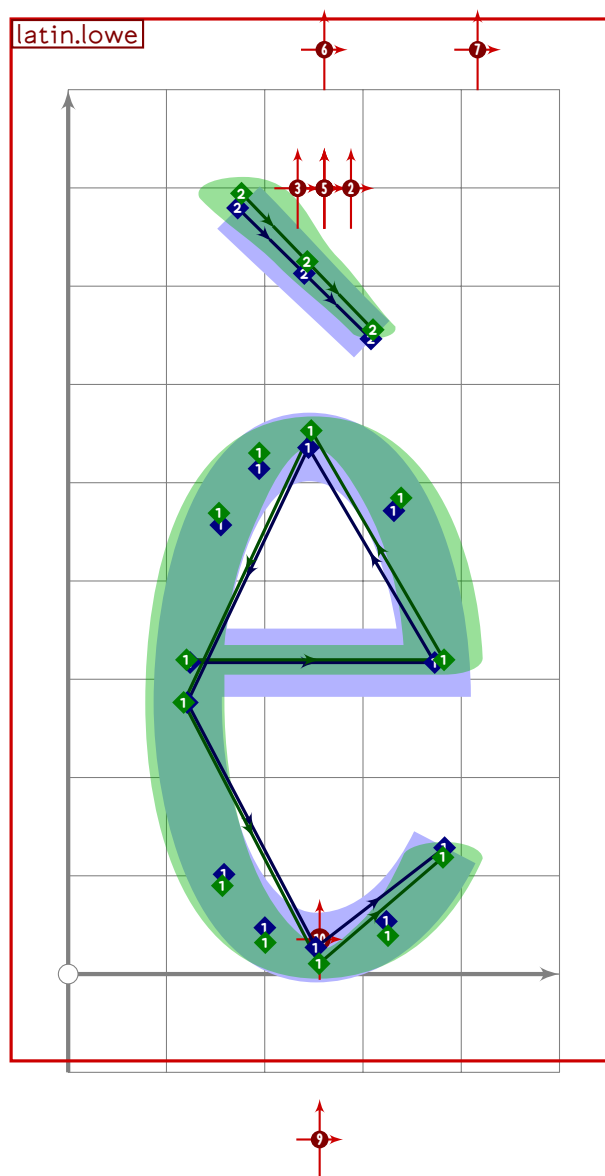
```

1281 % c with cedilla
1282 begintsuglyph("ccedilla";231);
1283   tsu_accent.apply(latin.lowc)(tsu_accent.cedilla);
1284   tsu_render;
1285 endtsuglyph;
1286

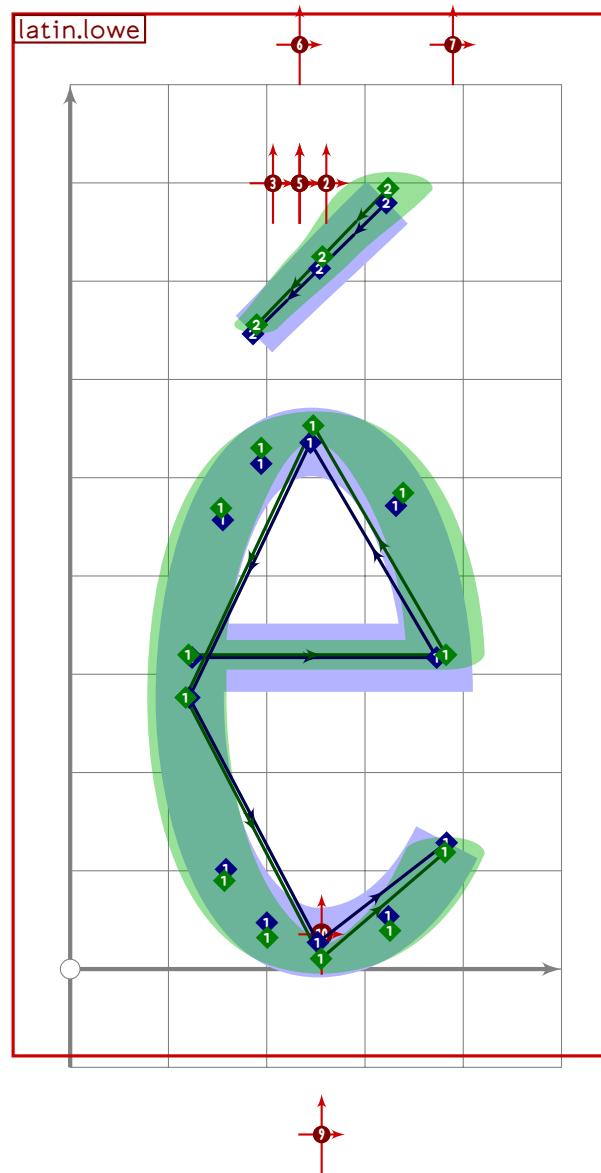
```

U+00E8
tsuku.egrave

00



```
1287 % e with grave
1288 begintsuglyph("egrave";232);
1289   tsu_accent.apply(latin.lowe)(tsu_accent.grave);
1290   tsu_render;
1291 endtsuglyph;
1292
```

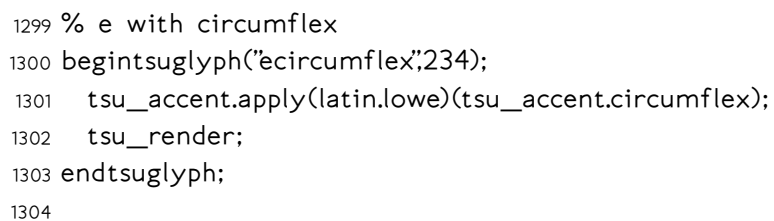


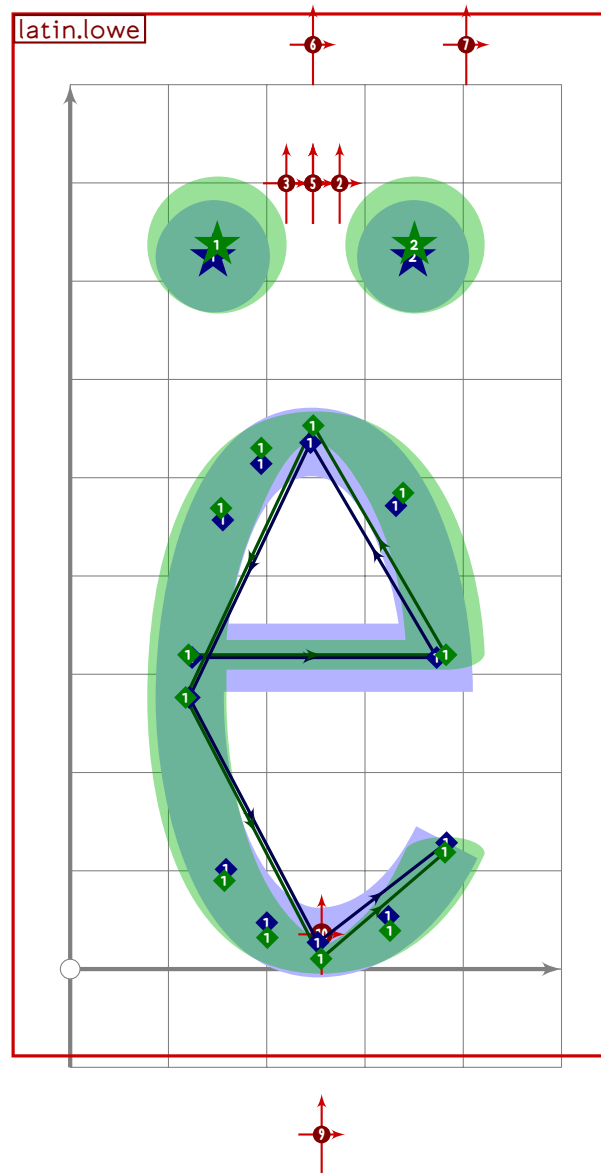
```

1293 % e with acute
1294 begint Suglyph("eacute";233);
1295   tsu_accent.apply(latin.lowe)(tsu_accent.acute);
1296   tsu_render;
1297 endtsuglyph;
1298

```

00





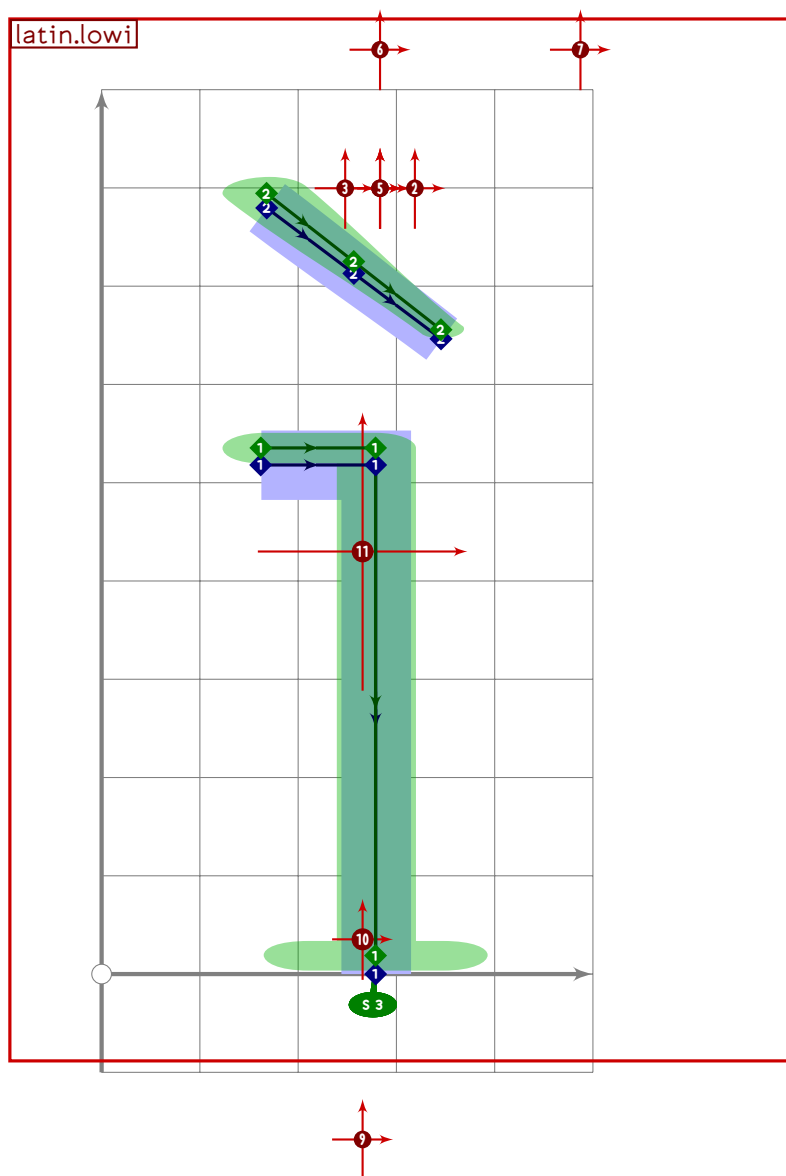
```

1305 % e with dieresis/umlaut
1306 begint Suglyph("edieresis";235);
1307   tsu_accent.apply(latin.lowe)(tsu_accent.umlaut);
1308   tsu_render;
1309 endtsuglyph;
1310

```

U+00EC
tsuku.igrave

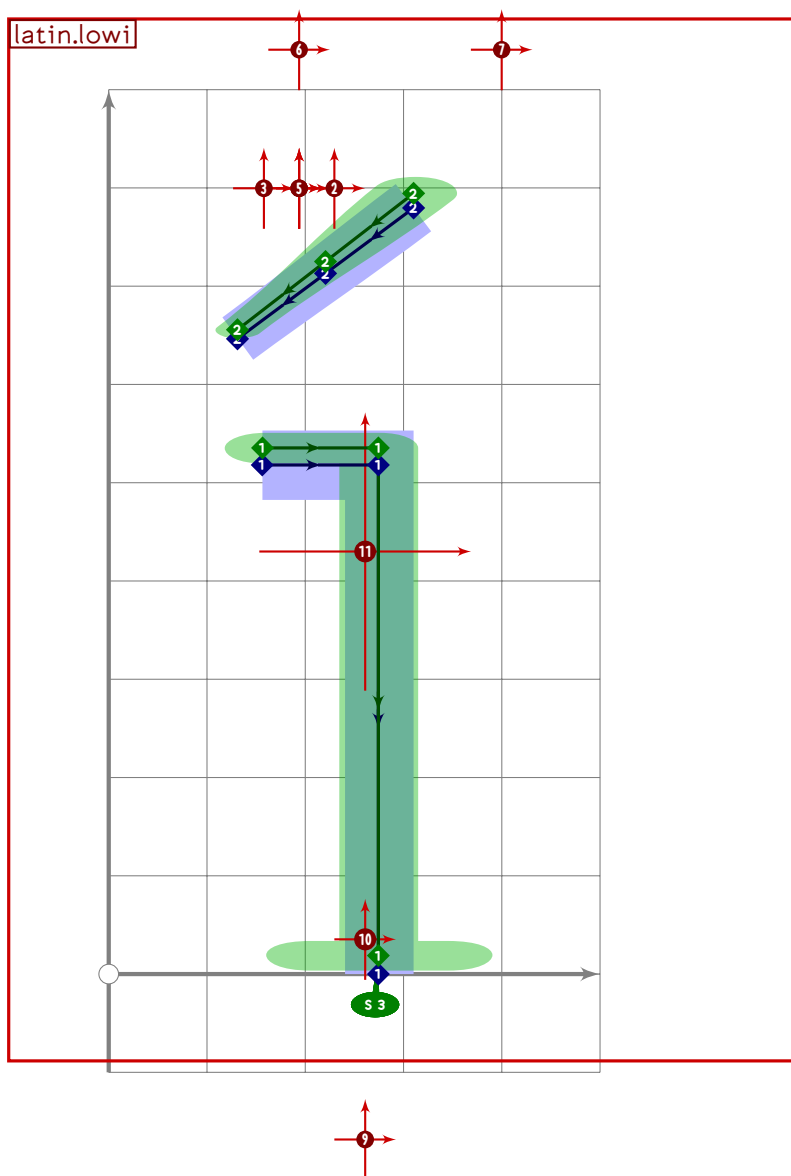
00



```

1311 % i with grave
1312 begintsuglyph("igrave";236);
1313   tsu_accent.apply(
1314     tsu_xform(identity shifted (70,0))(latin.lowi;
1315       tsu_accent.shift_anchors(true)((0,0)));
1316     pop_lcblob;
1317   )(tsu_accent.grave);
1318   tsu_render;
1319 endtsuglyph;
1320

```



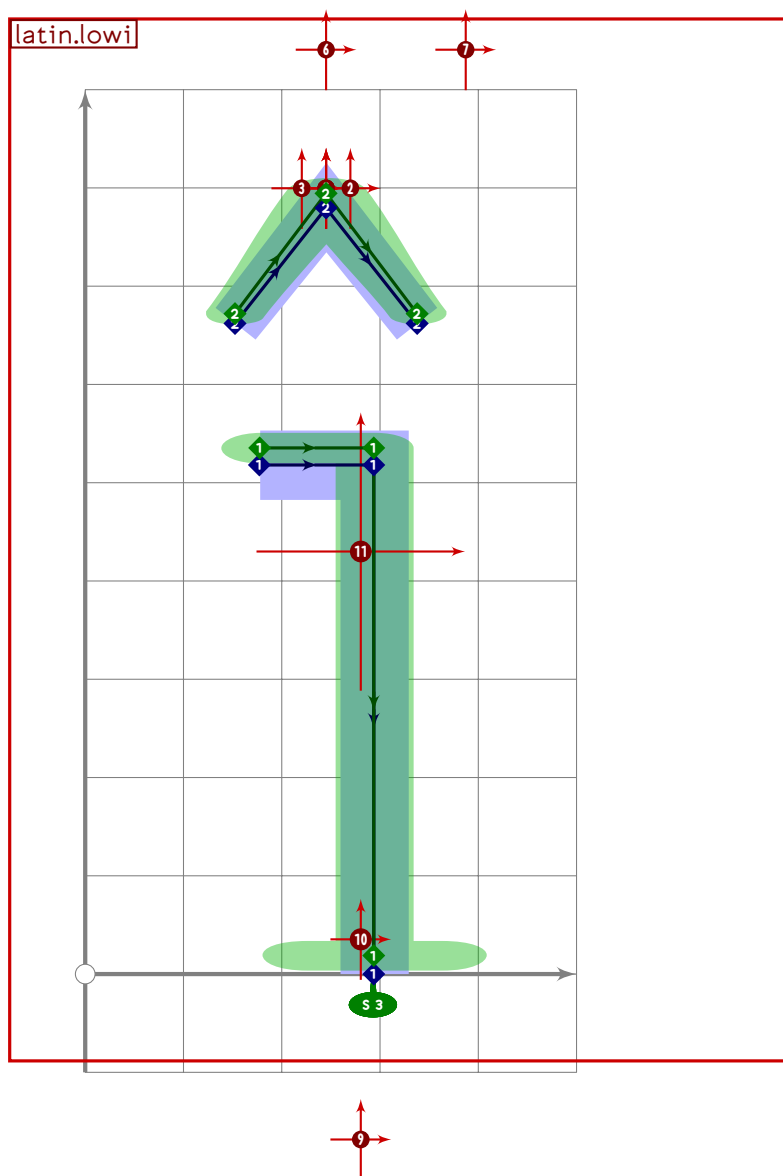
```

1321 % i with acute
1322 begintsuglyph("iacute",237);
1323   tsu_accent.apply(latin.lowi;pop_lcblob)(tsu_accent.acute);
1324   tsu_render;
1325 endtsuglyph;
1326

```

U+00EE
tsuku.icircumflex

00



```

1327 % i with circumflex
1328 begintsuglyph("icircumflex";238);
1329   tsu_accent.apply(
1330     tsu_xform(identity shifted (70,0))(latin.lowi;
1331       tsu_accent.shift_anchors(true)((0,0)));
1332     pop_lcblob;
1333   )(tsu_accent.circumflex);
1334   tsu_render;
1335 endsuglyph;
1336

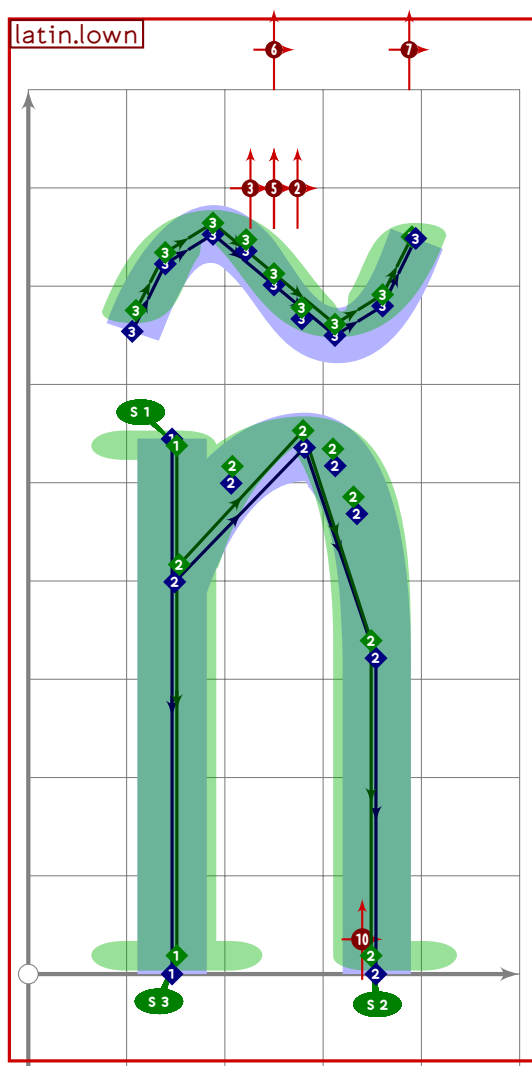
```



[see page 310]

U+00F1
tsuku.ntilde

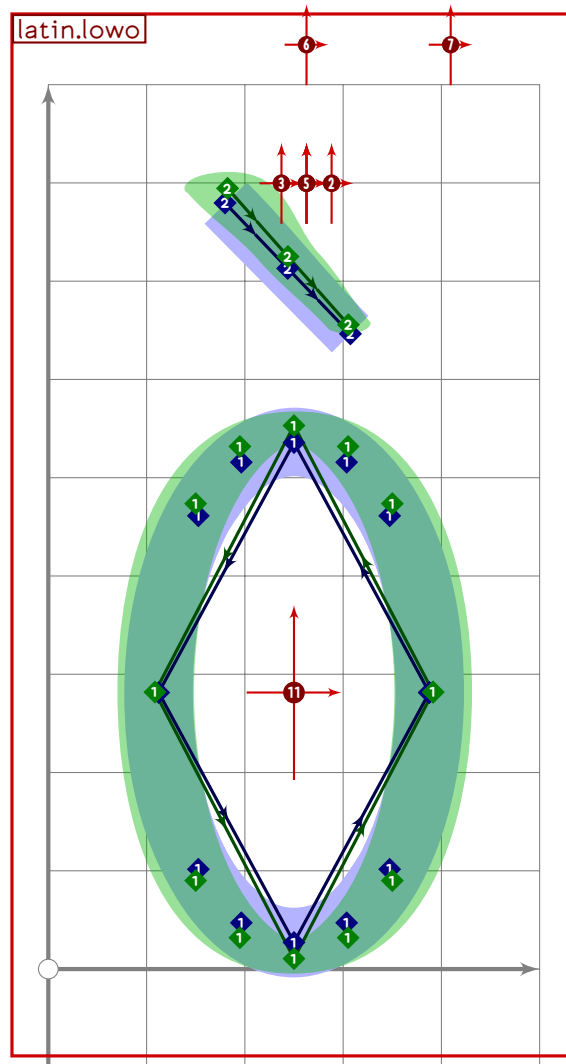
00



```

1353 % n with tilde
1354 begintsuglyph("ntilde",241);
1355   tsu_accent.apply(latin.lown)(tsu_accent.tilde);
1356   tsu_render;
1357 endtsuglyph;
1358

```



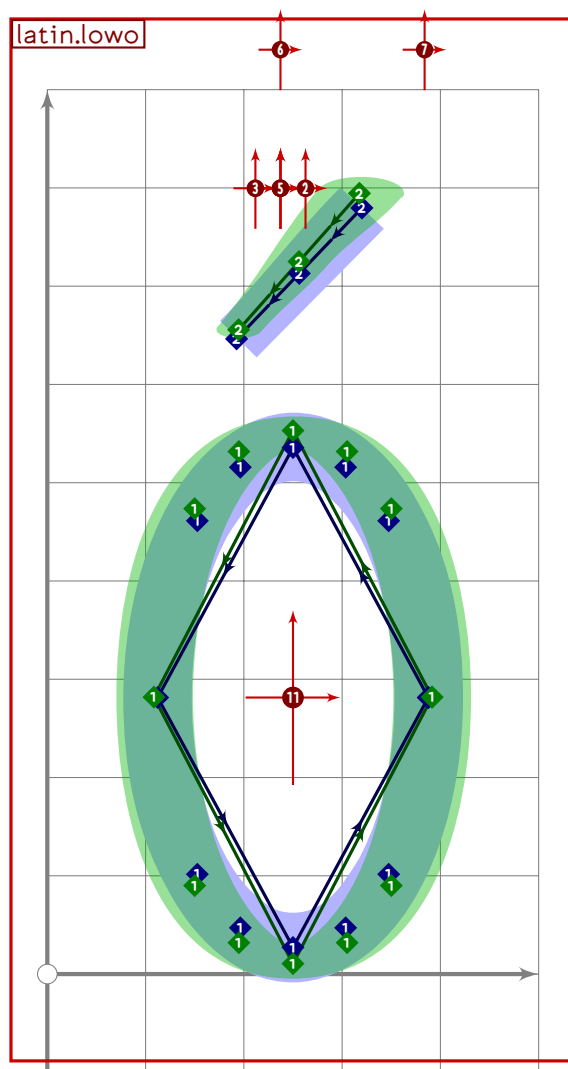
```

1359 % o with grave
1360 begintsuglyph("ograde";242);
1361   tsu_accent.apply(latin.low)(tsu_accent.grave);
1362   tsu_render;
1363 endsuglyph;
1364

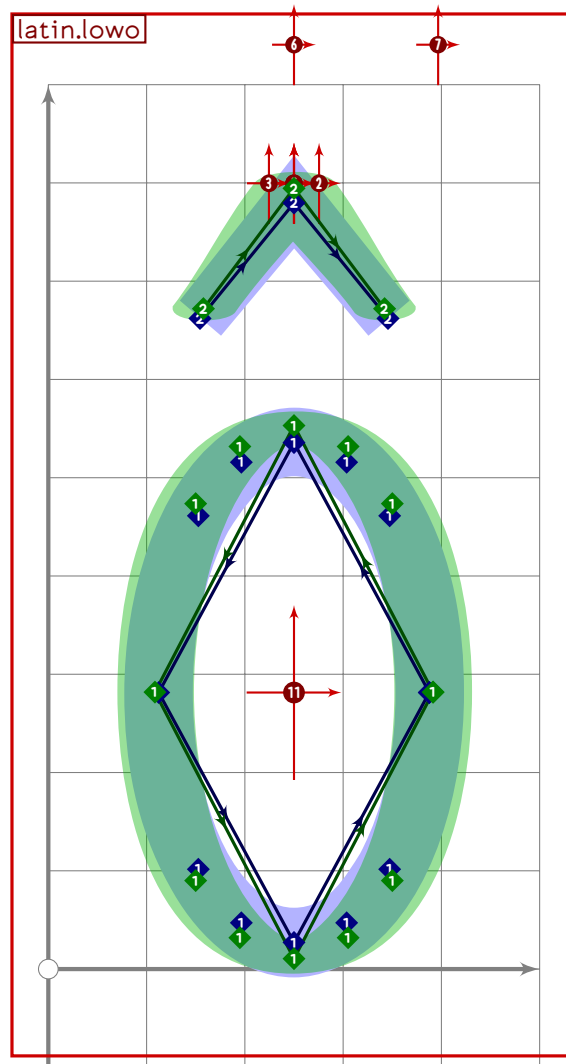
```

U+00F3
tsuku.oacute

00



```
1365 % o with acute
1366 begint Suglyph("oacute";243);
1367   tsu_accent.apply(latin.low)(tsu_accent.acute);
1368   tsu_render;
1369 endtsuglyph;
1370
```

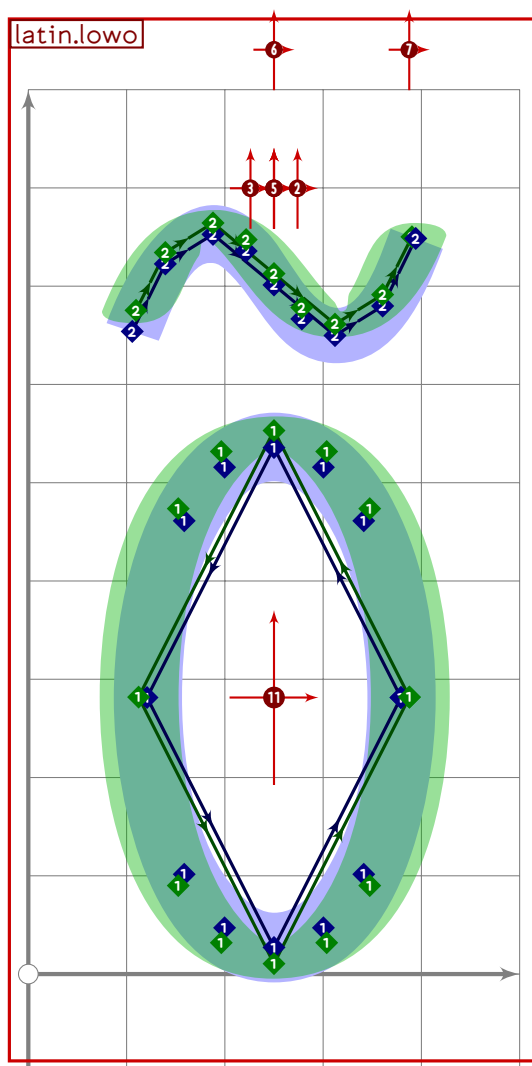
```

1371 % o with circumflex
1372 begintsuglyph("ocircumflex",244);
1373   tsu_accent.apply(latin.low o)(tsu_accent.circumflex);
1374   tsu_render;
1375 endtsuglyph;
1376

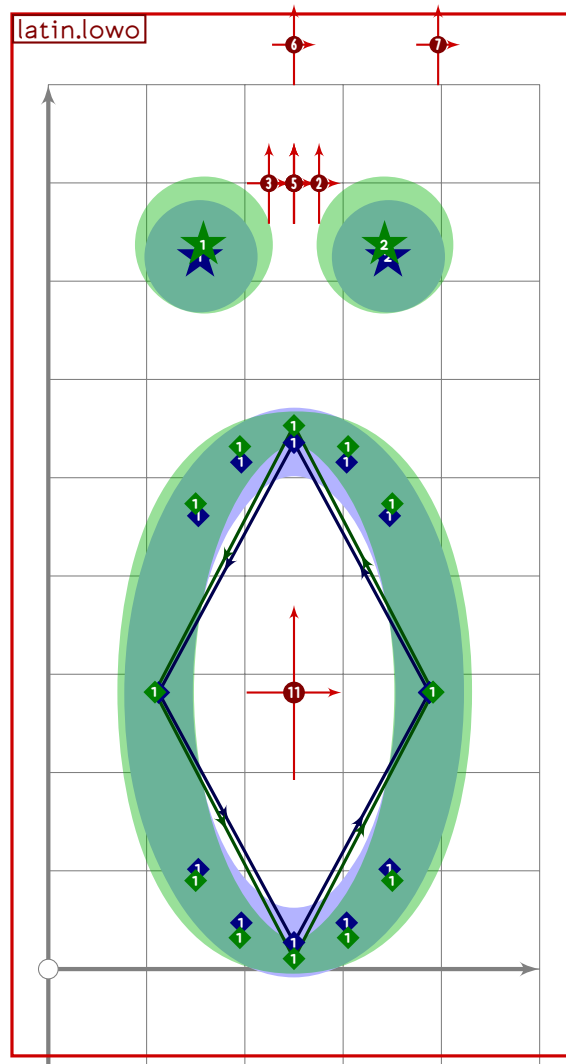
```

U+00F5
tsuku.otilde

00



```
1377 % o with tilde
1378 begintsuglyph("otilde";245);
1379 tsu_accent.apply(latin.lowo)(tsu_accent.tilde);
1380 tsu_render;
1381 endtsuglyph;
1382
```



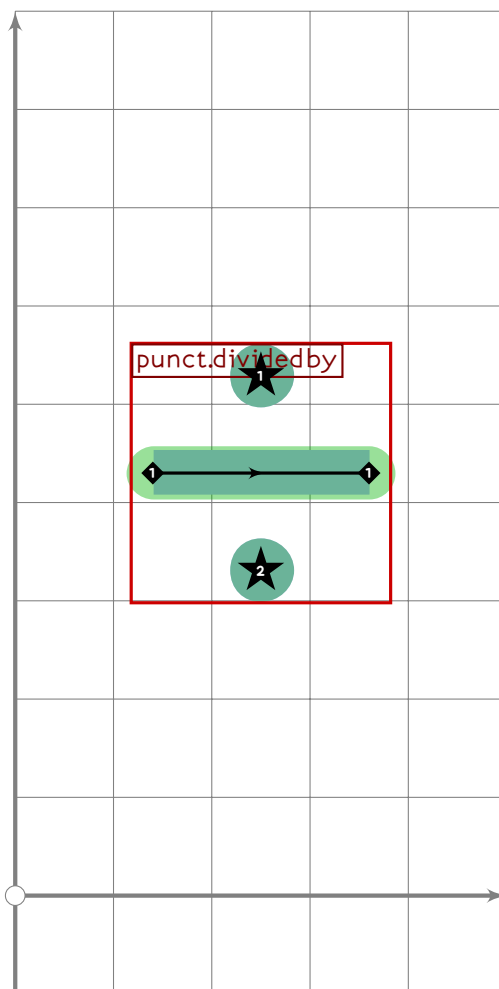
```

1383 % o with dieresis/umlaut
1384 begintsuglyph("odieresis";246);
1385   tsu_accent.apply(latin.low)(tsu_accent.umlaut);
1386   tsu_render;
1387 endsuglyph;
1388
1389 % division sign
1390 tsu_accent.clear_default_anchors;
1391 tsu_rescale_native_conditional;

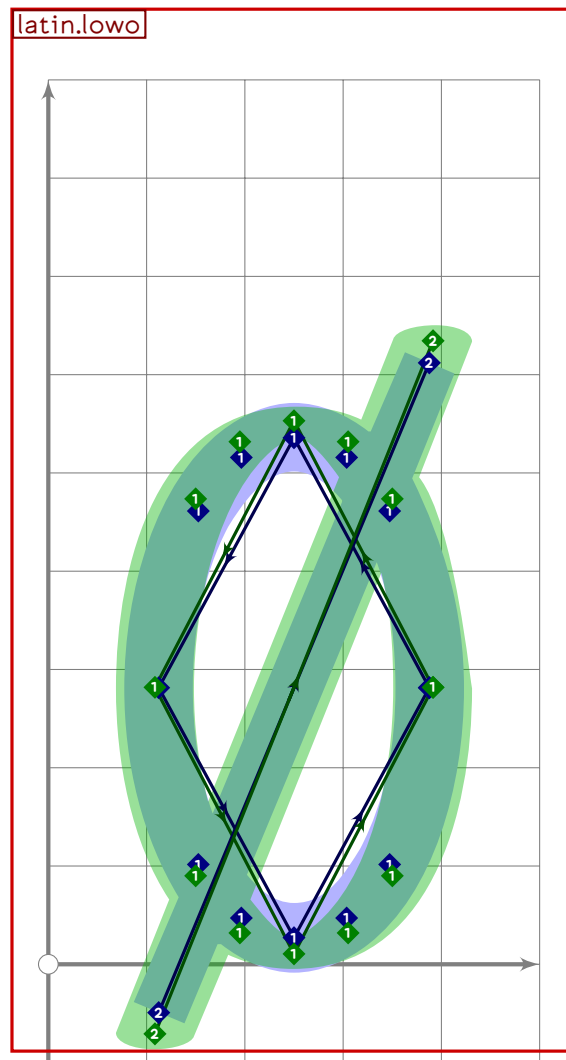
```

U+00F7
tsuku.divide

00



```
1392 begint Suglyph("divide";247);
1393   punct.dividedby(ascii_punct_xf);
1394   tsu_render;
1395 endtsuglyph;
1396 tsu_rescale_half;
1397 tsu_accent.low_default_anchors;
1398
```



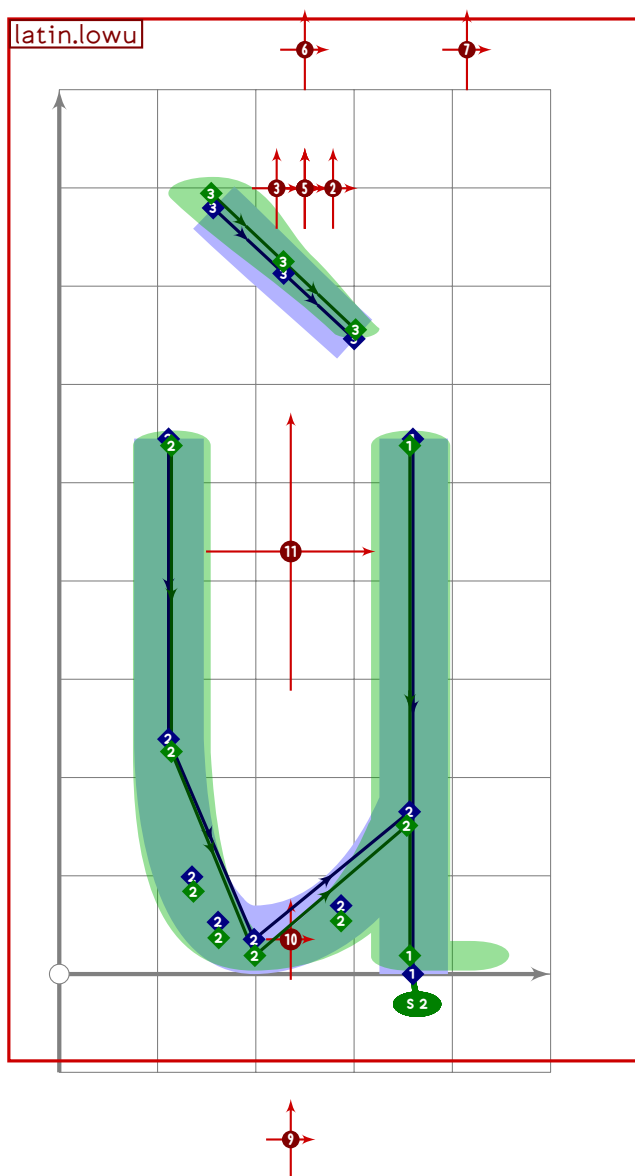
```

1399 % o with stroke
1400 begintsuglyph("oslash";248);
1401   tsu_accent.apply(latin.lowo)(tsu_accent.slash);
1402   tsu_render;
1403 endtsuglyph;
1404

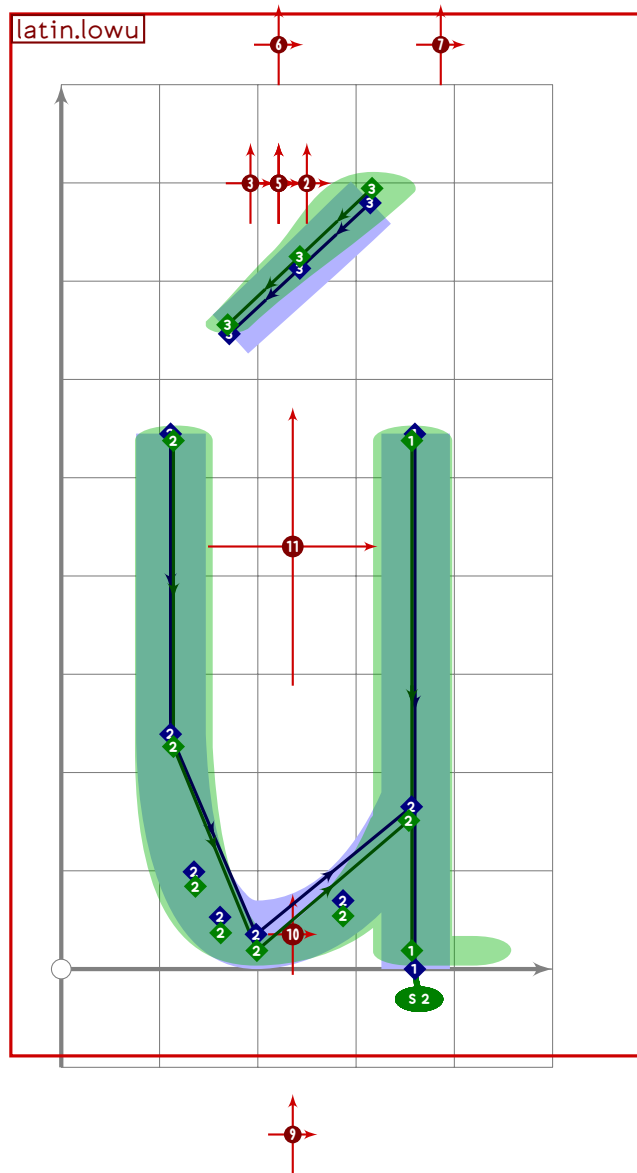
```

U+00F9
tsuku.ugrave

00



```
1405 % u with grave
1406 begintsuglyph("ugrave";249);
1407   tsu_accent.apply(latin.lowu)(tsu_accent.grave);
1408   tsu_render;
1409 endtsuglyph;
1410
```



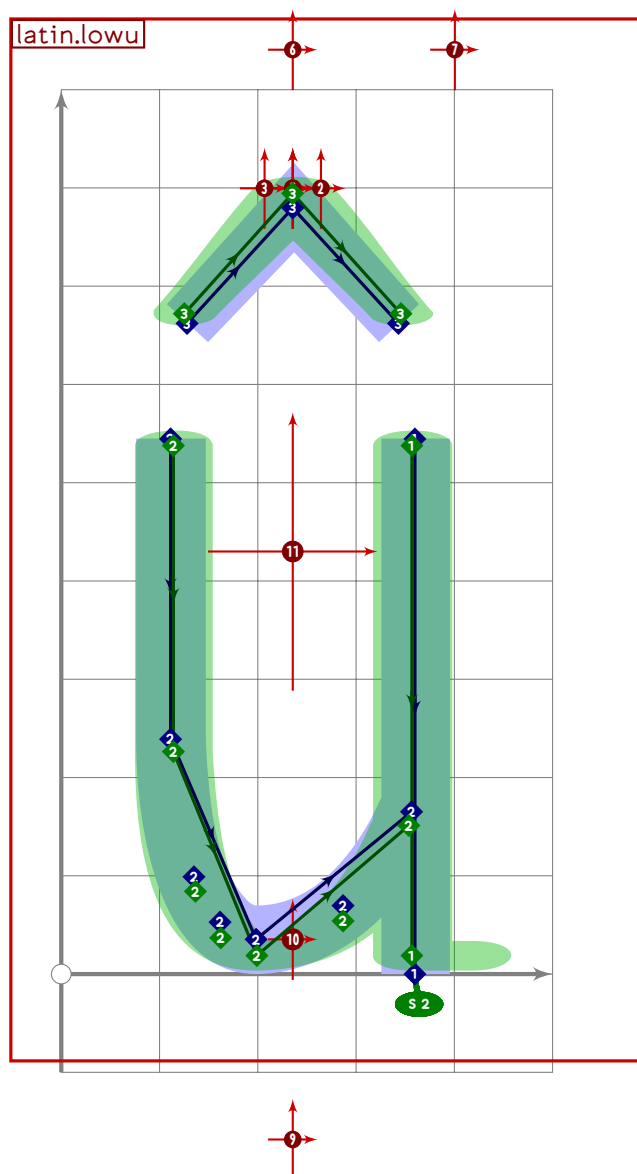
```

1411 % u with acute
1412 begintsuglyph("uacute";250);
1413   tsu_accent.apply(latin.lowu)(tsu_accent.acute);
1414   tsu_render;
1415 endtsuglyph;
1416

```

U+00FB
tsuku.ucircumflex

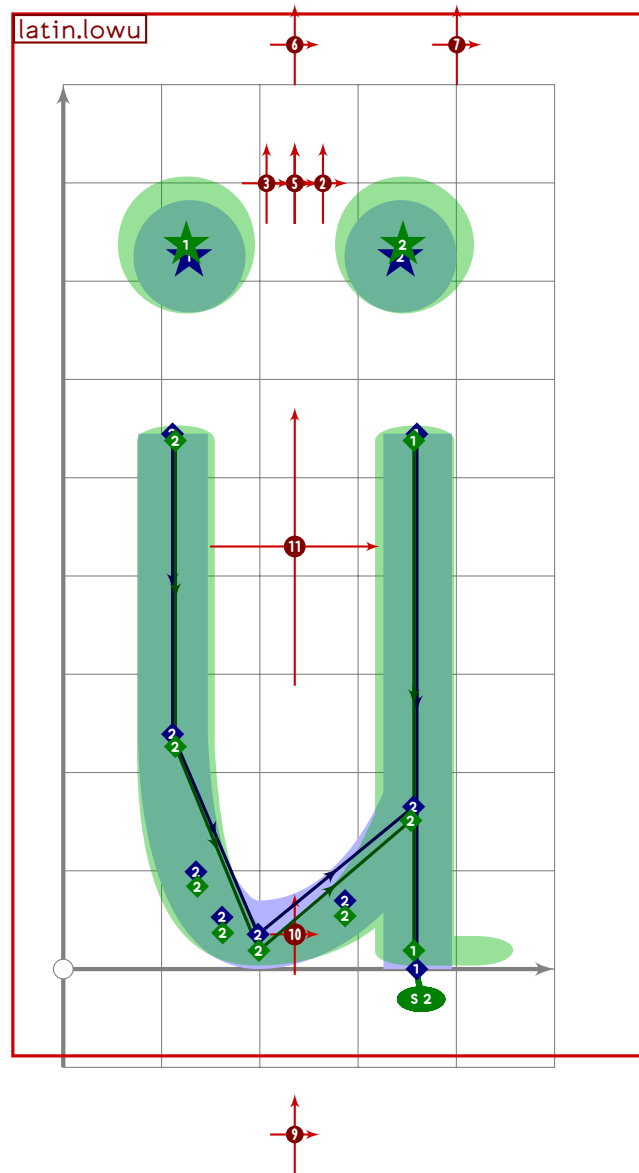
00



```

1417 % u with circumflex
1418 begint Suglyph('ucircumflex';251);
1419   tsu_accent.apply(latin.lowu)(tsu_accent.circumflex);
1420   tsu_render;
1421 endtsuglyph;
1422

```

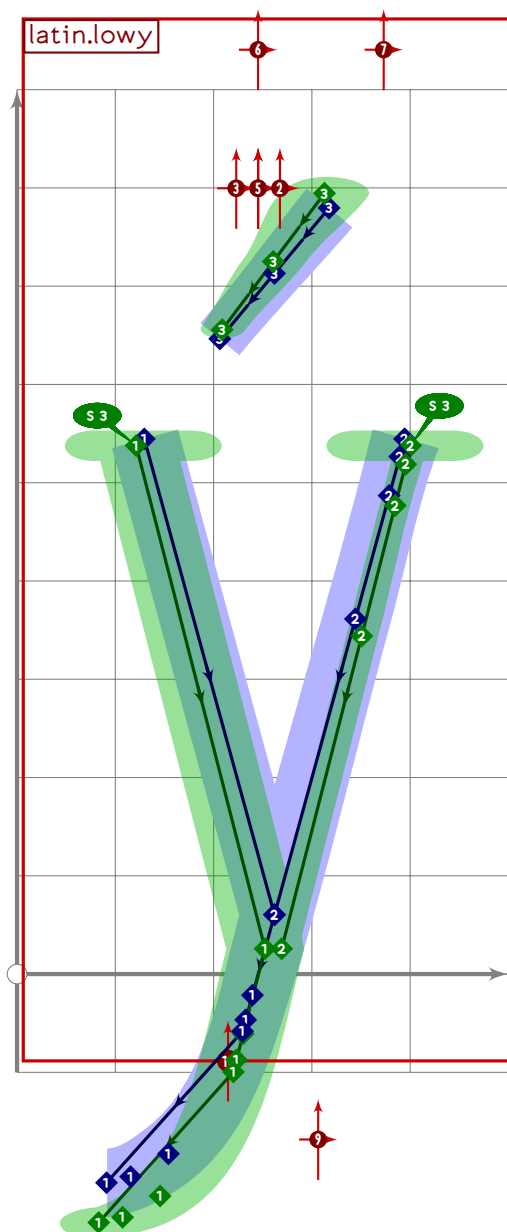
```

1423 % u with dieresis/umlaut
1424 begint Suglyph("udieresis";252);
1425   tsu_accent.apply(latin.lowu)(tsu_accent.umlaut);
1426   tsu_render;
1427 endtsuglyph;
1428

```

U+00FD
tsuku.yacute

00

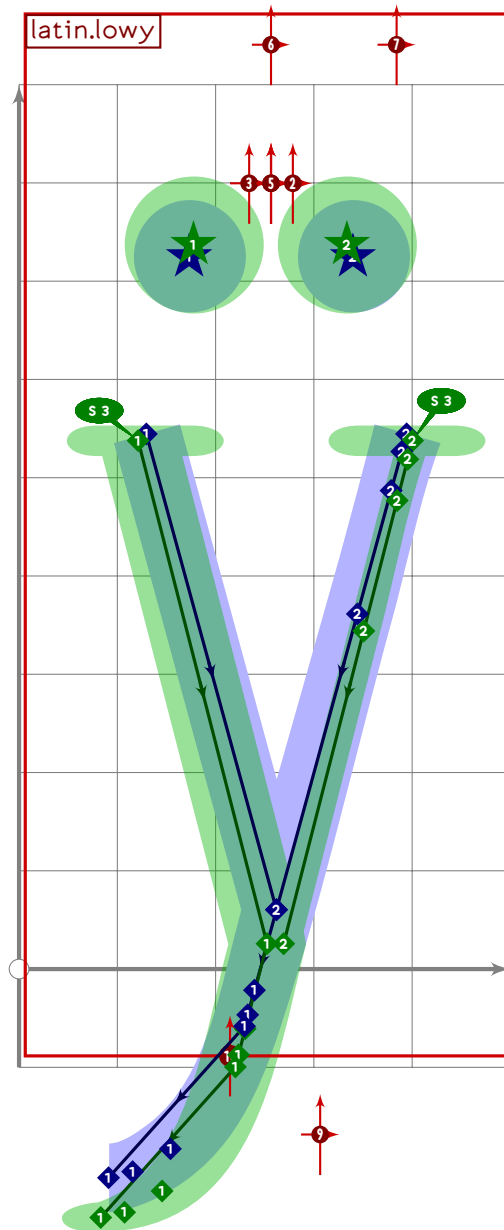


```

1429 % y with acute
1430 begintsuglyph("yacute";253);
1431   tsu_accent.apply(latin.lowy)(tsu_accent.acute);
1432   tsu_render;
1433 endtsuglyph;
1434
1435 % thorn
1436 begintsuglyph("thorn";254);
1437   latin.lowthorn;
1438   tsu_render;
1439 endtsuglyph;
1440

```

[see page 338]



```

1441 % y with dieresis/umlaut
1442 begintsuglyph("ydieresis";255);
1443   tsu_accent.apply(latin.lowy)(tsu_accent.umlaut);
1444   tsu_render;
1445 endtsuglyph;
1446
1447 _____
1448
1449 endfont;
1450
1451 _____

```

tsuku-01.mp

01

```
1 %
2 % Unicode page 01 (Latin Extended A) for Tsukurimashou
3 % Copyright (C) 2011, 2012, 2021 Matthew Skala
4 %
5-29 [Standard copyright notice]
30
31 

---

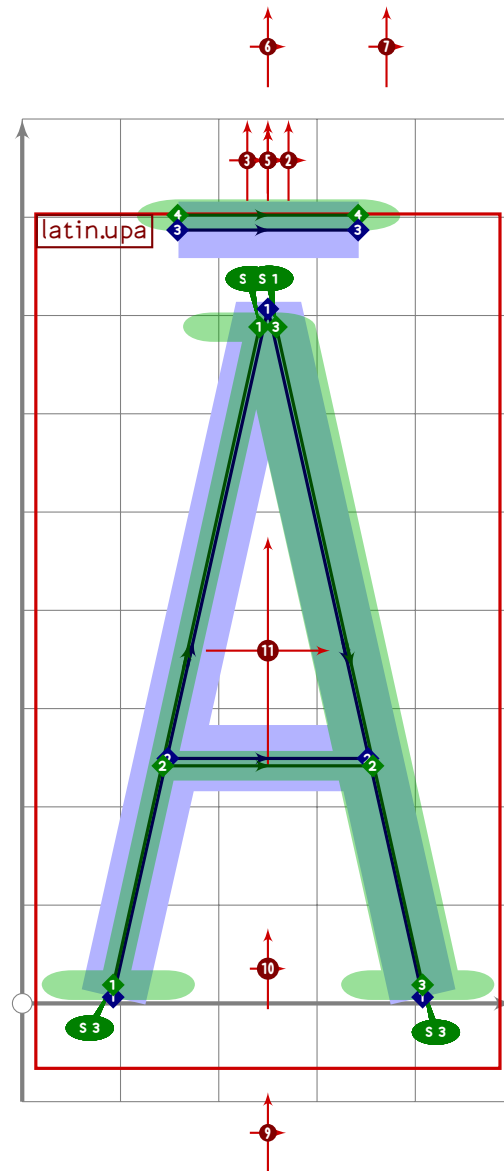

32
33 beginfont
34
35 input latin-intro.mp;
36
37 % AUTODEPS
38 input accent.mp;
39 input latin.mp;
40 input ogonek.mp;
41 input punct.mp;
42
43 do_late_includes;
44
45 

---


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
```

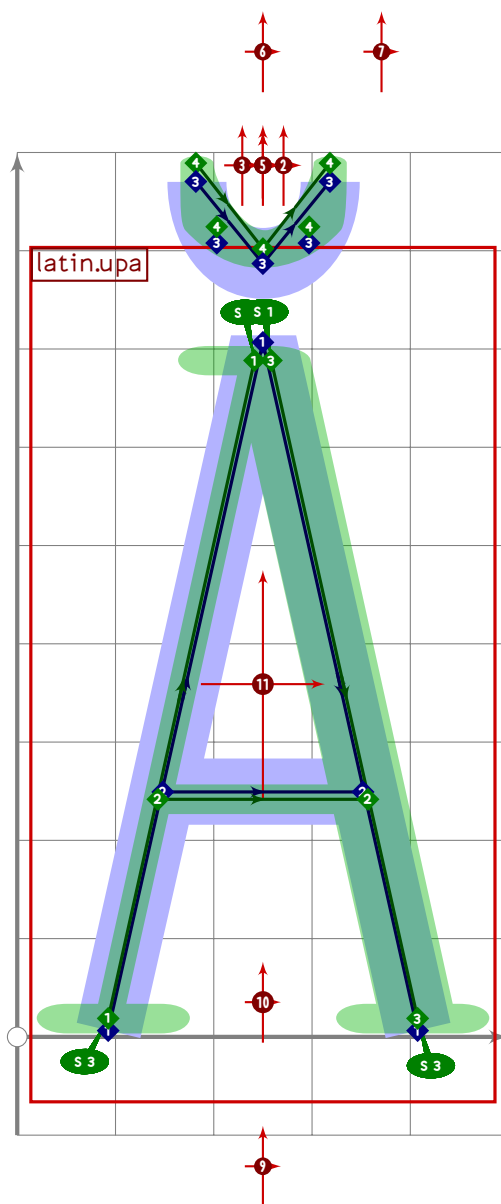


01

```

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

```

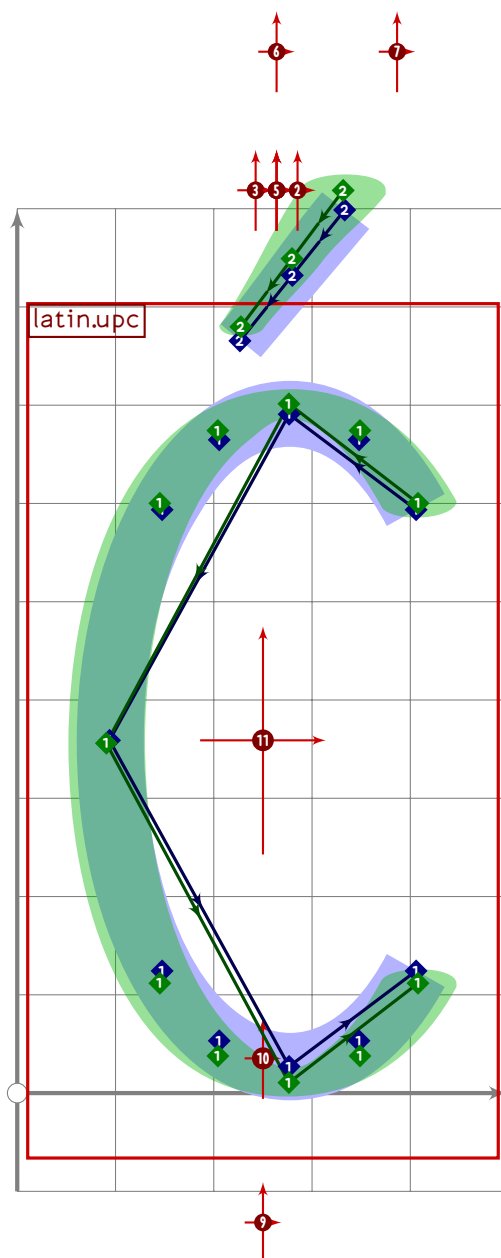


```

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 359]



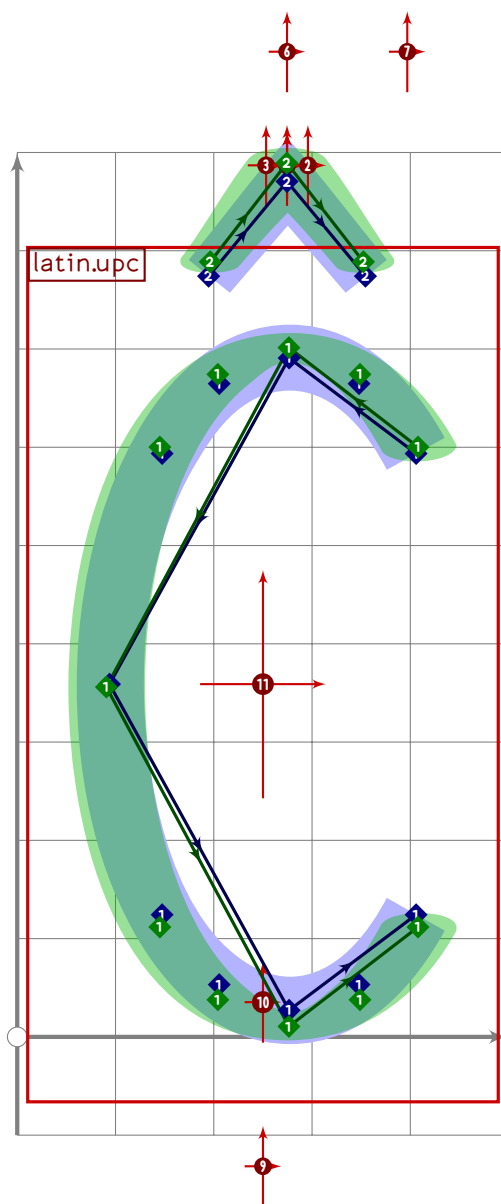
01

```

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

```

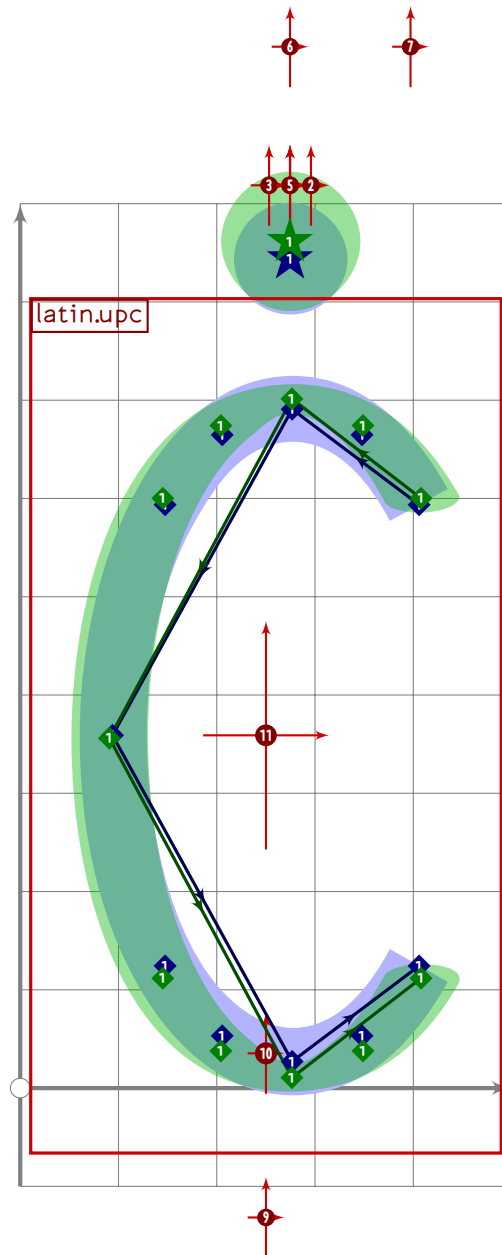
01



```

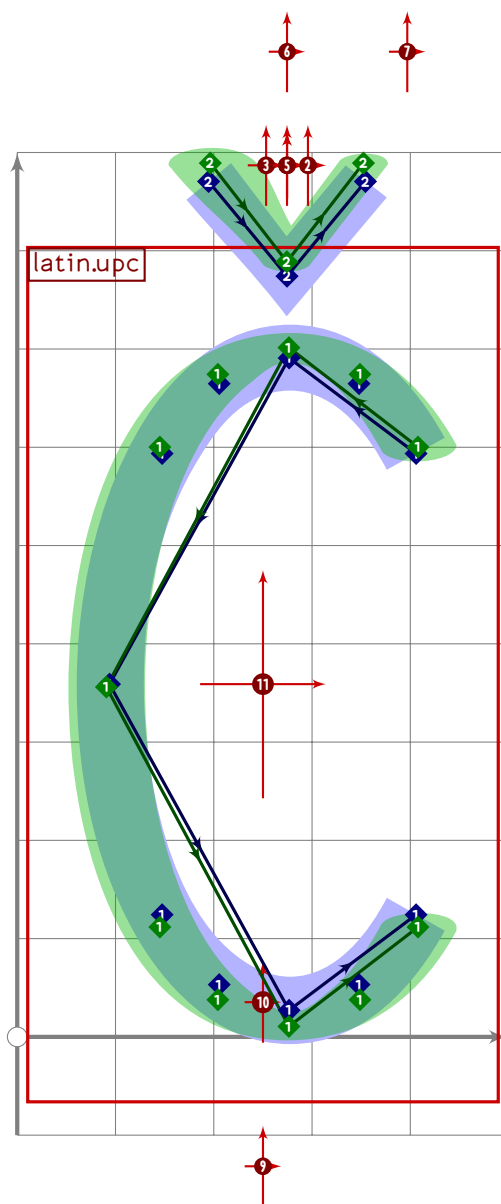
80 % C with circumflex
81 begintsuglyph("Ccircumflex";8);
82 tsu_accent.apply(tsu_accent.capital(latin.upc))(tsu_accent.circumflex);
83 tsu_render;
84 endtsuglyph;
85

```

1289

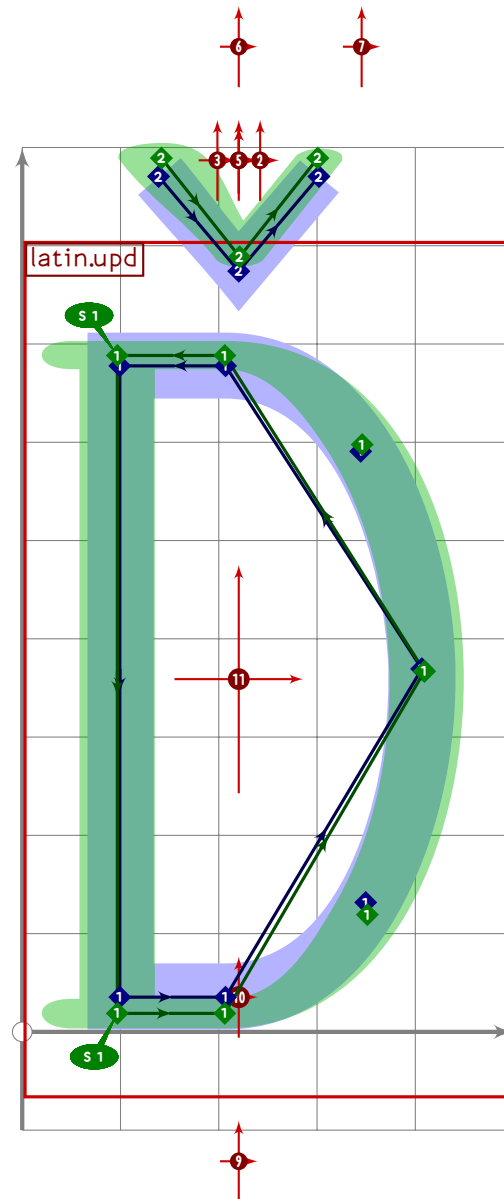
01



```

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

```



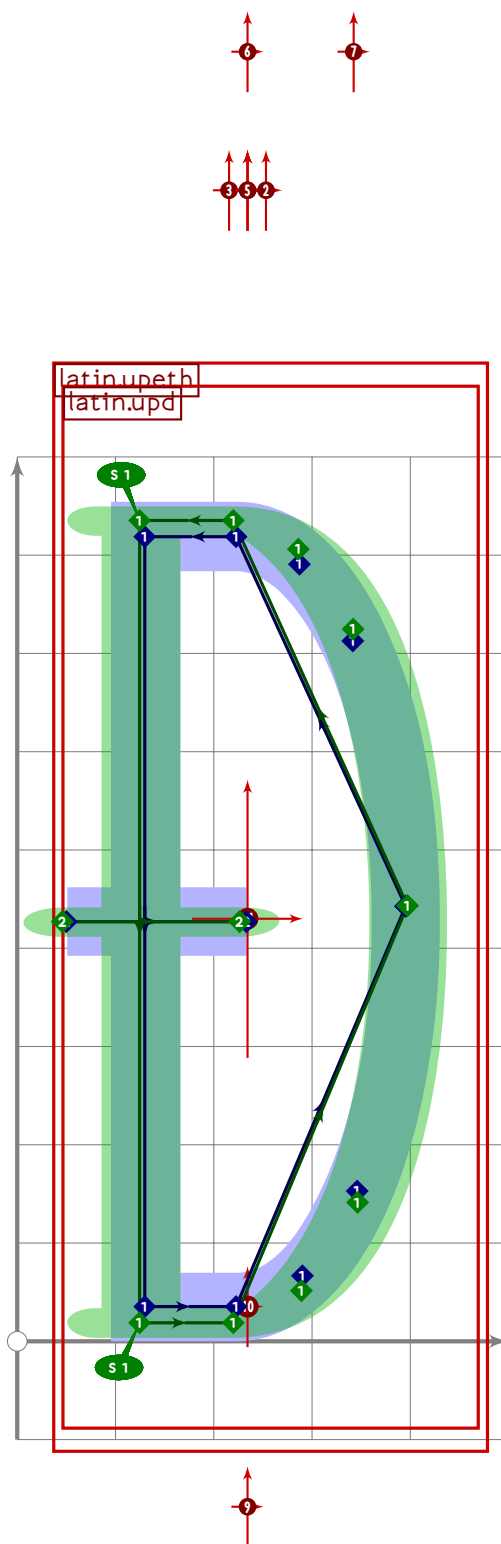
```

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

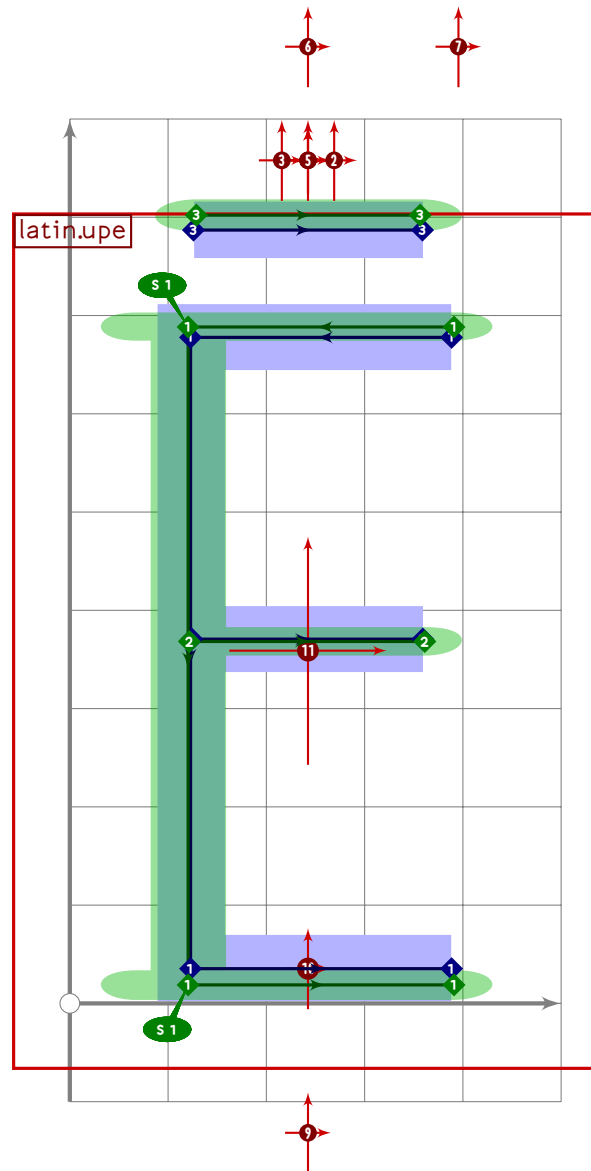
```

U+0110
tsuku.Dcroat

01



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



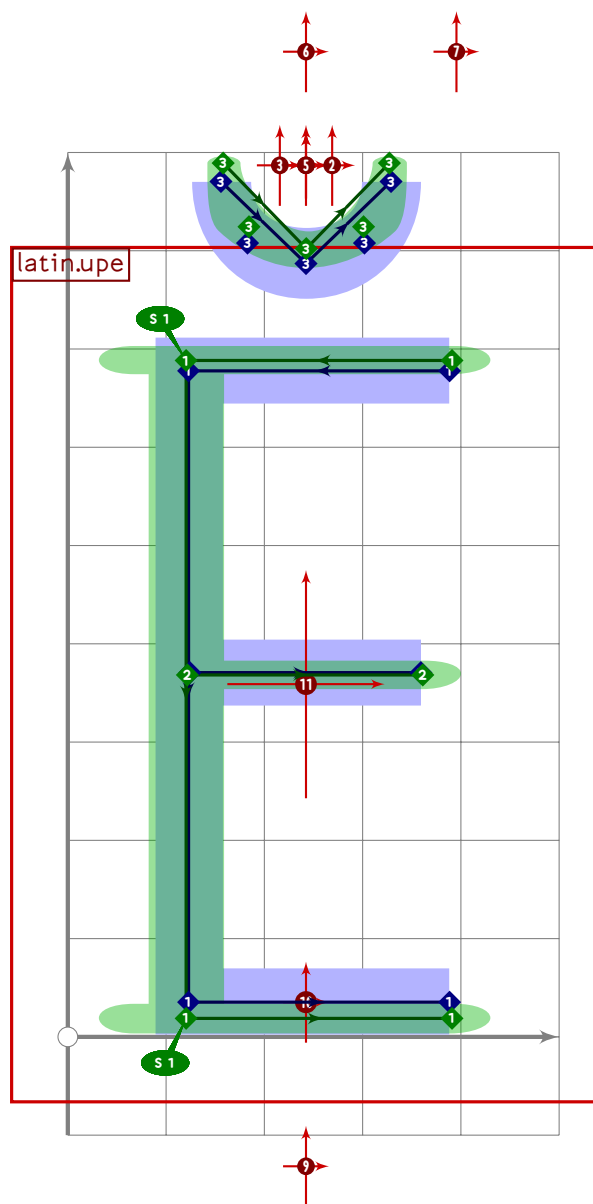
01

```

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

```

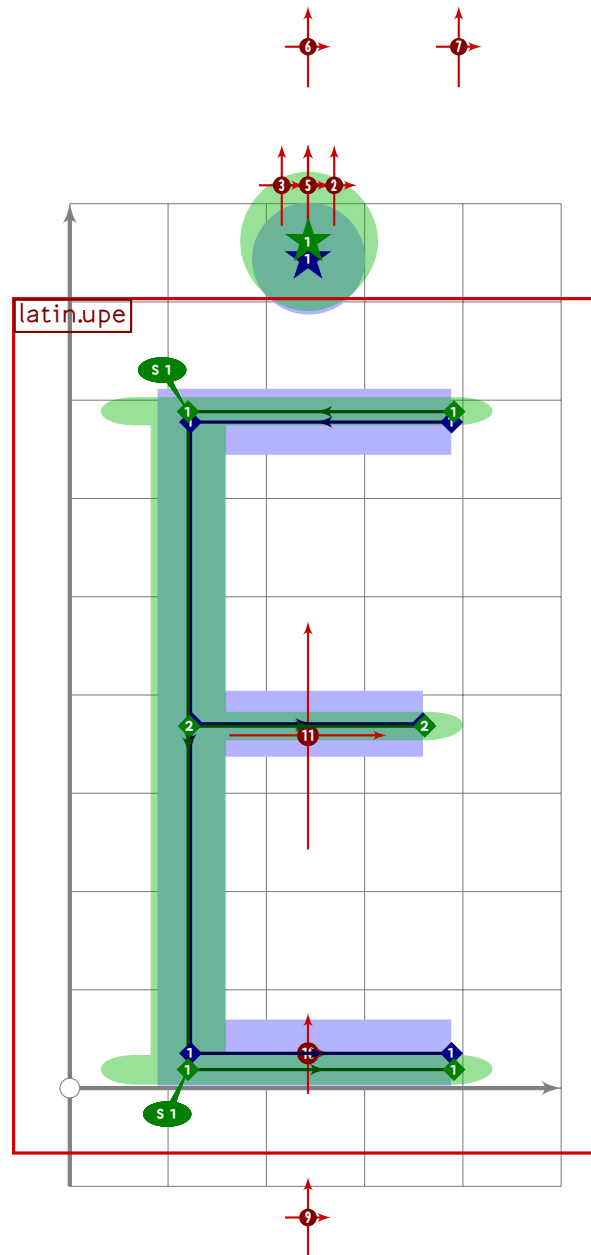
01



```

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

```



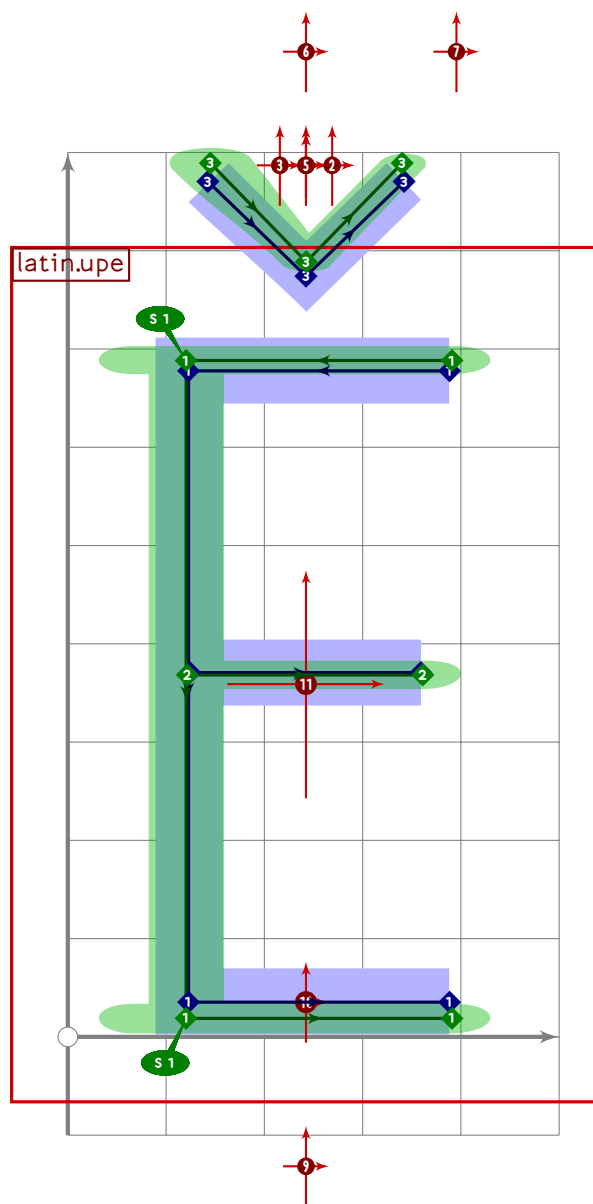
```

122 % E with dot
123 begintsuglyph("Edotaccent";22);
124 tsu_accent.apply(tsu_accent.capital(latin.upe))(tsu_accent.dotabove);
125 tsu_render;
126 endtsuglyph;
127
128 % E with ogonek
129 begintsuglyph("Eogonek";24);
130 latin.upeogonek;
131 tsu_render;
132 endtsuglyph;
133

```

[see page 360]

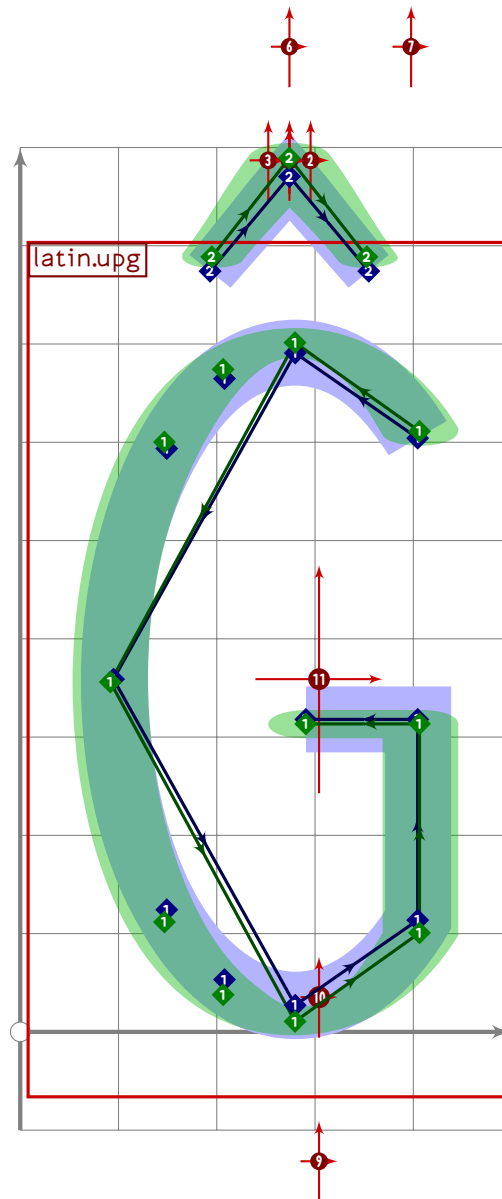
01



```

134 % E with caron
135 begintsuglyph("Ecaron";26);
136   tsu_accent.apply(tsu_accent.capital(latin.upe))(tsu_accent.caron);
137   tsu_render;
138 endtsuglyph;
139

```

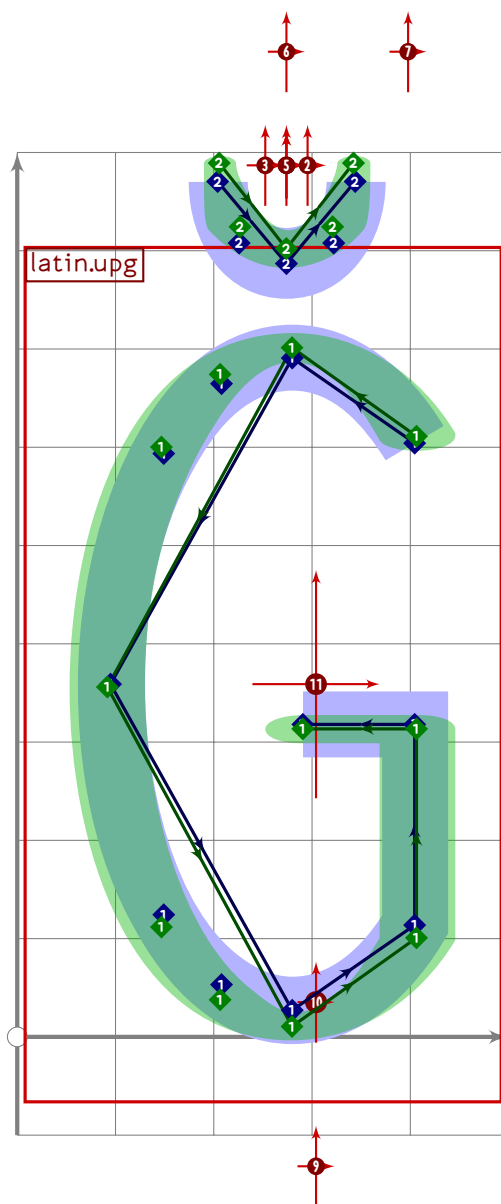
```

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

```

U+011E
tsuku.Gbreve

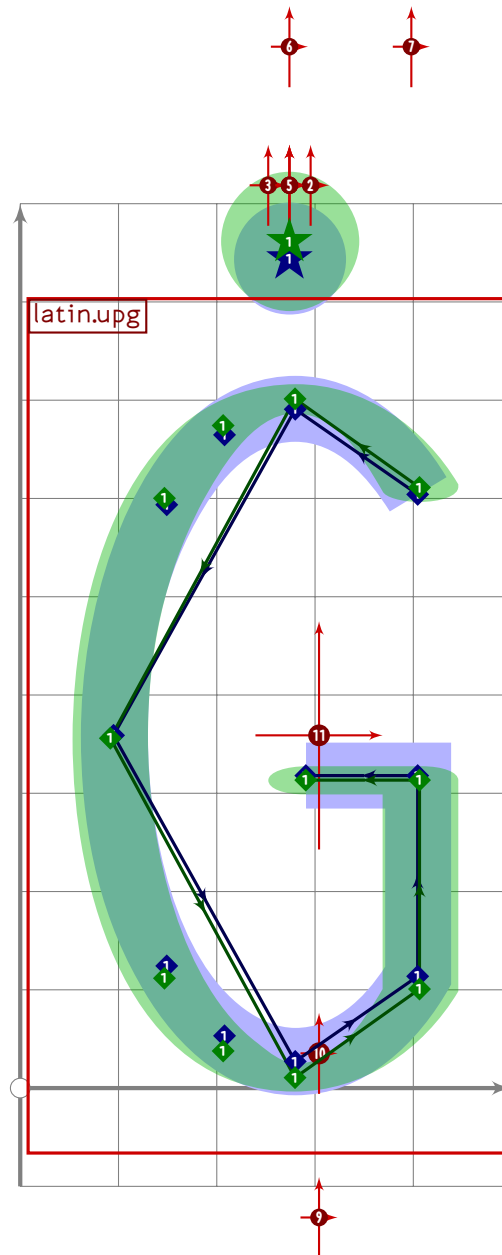
01



```

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

```



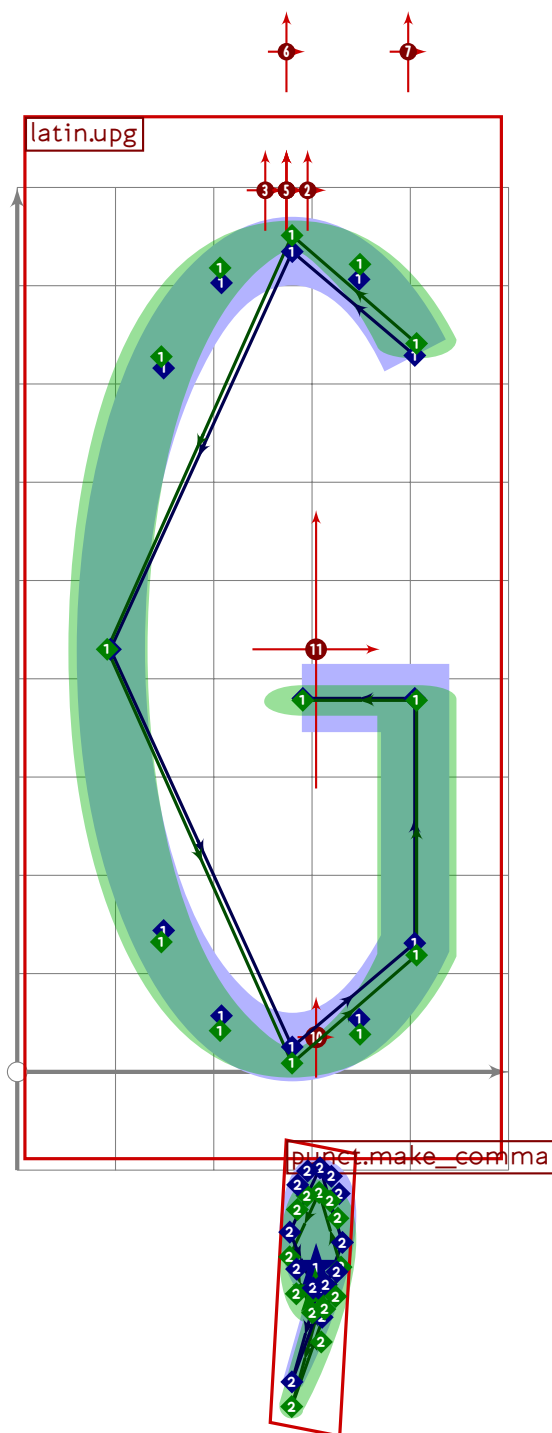
```

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

```

U+0122
tsuku.uni0122

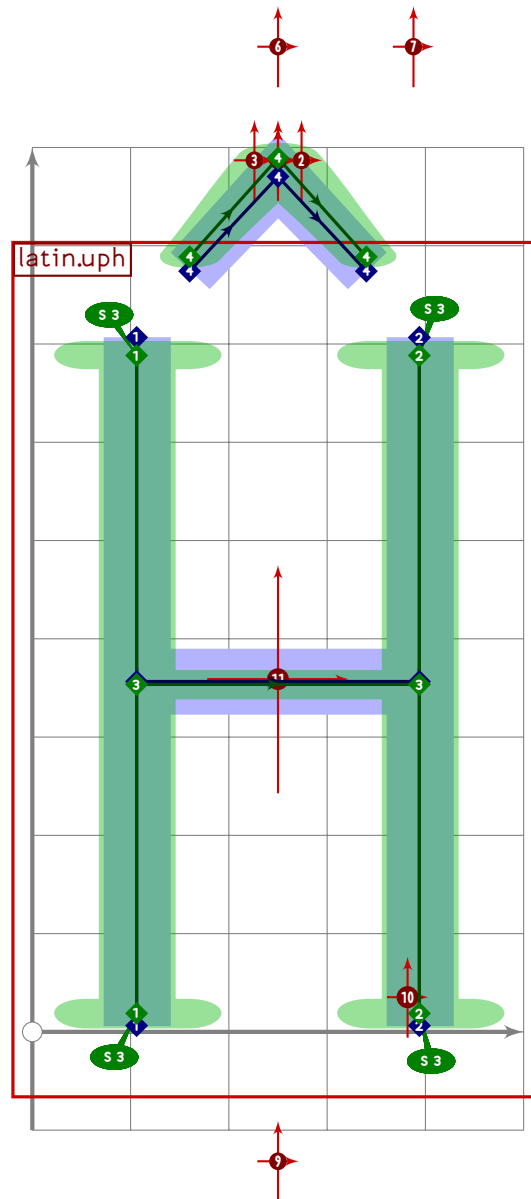
01



```

158 % G with comma below
159 begintsglyph("uni0122";34);
160   tsu_accent.apply(latin.upg)(tsu_accent.commabelow);
161   tsu_render;
162 endtsglyph;
163

```

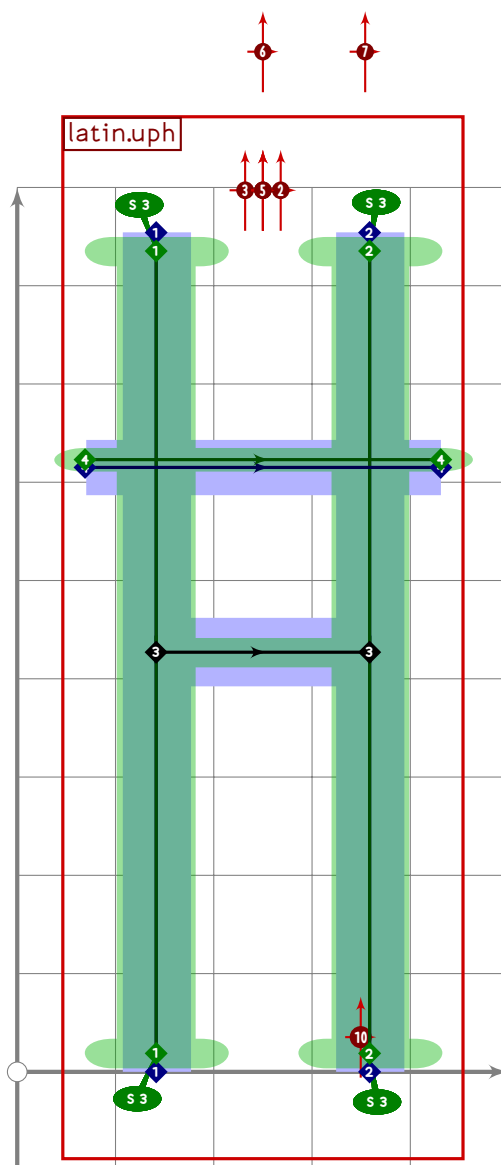


01

```

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

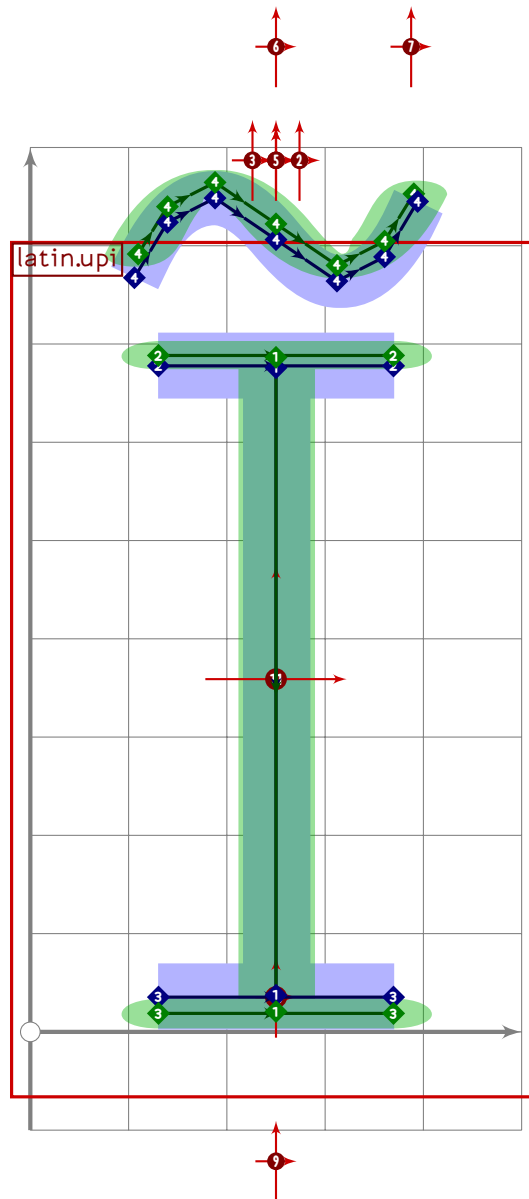
```



```

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

```



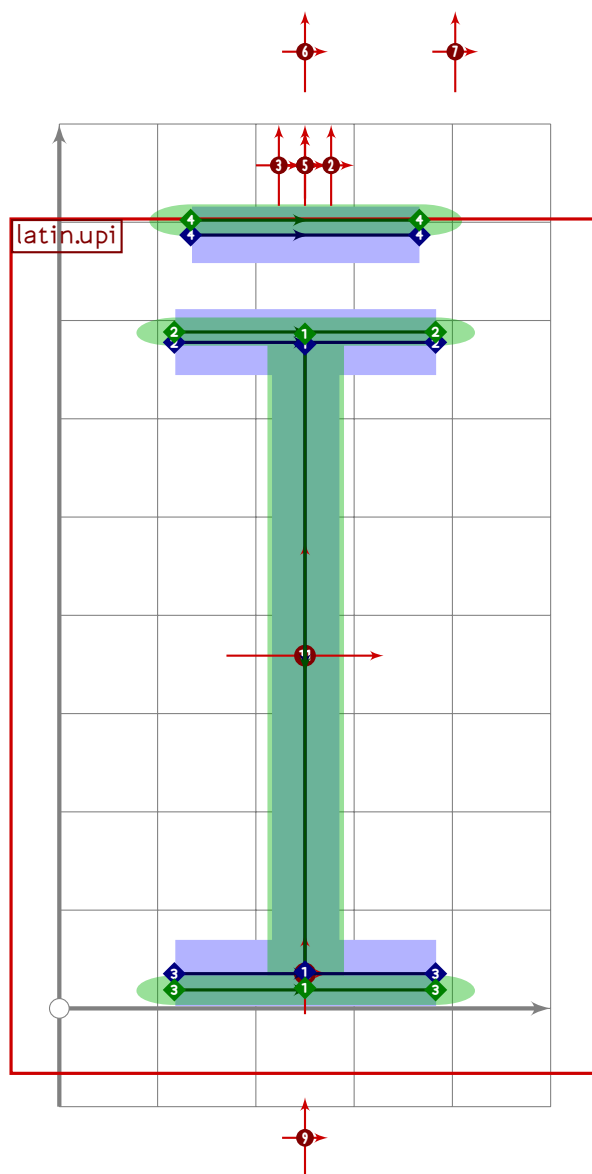
```

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

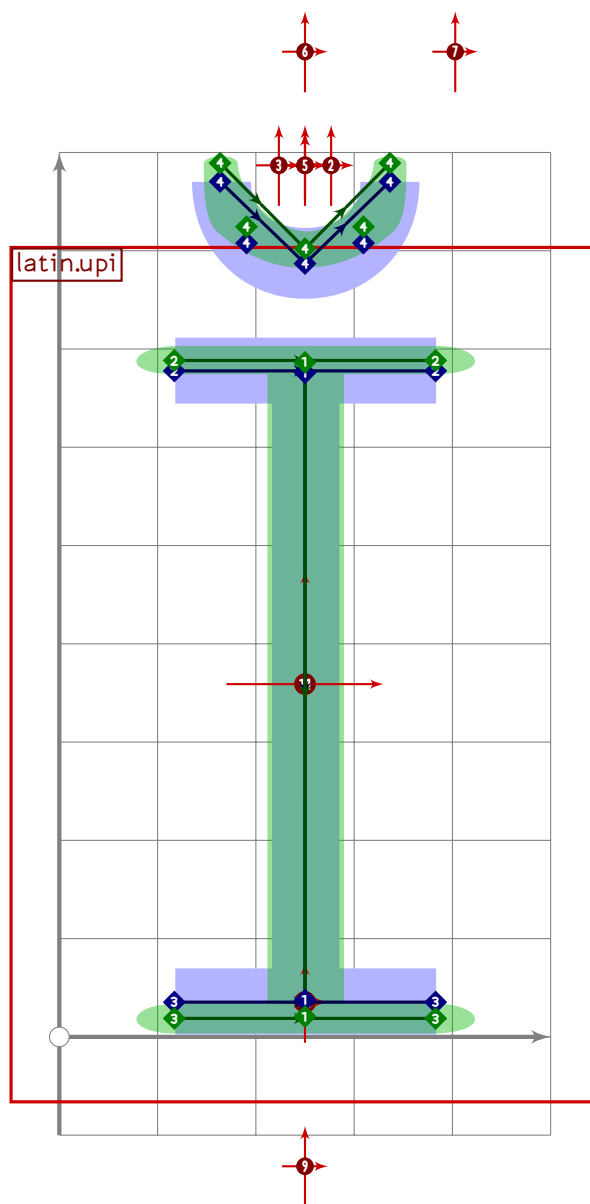
```

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 endtsuglyph;
190
```

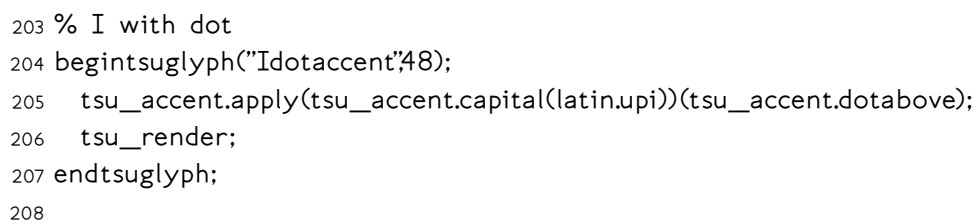
```

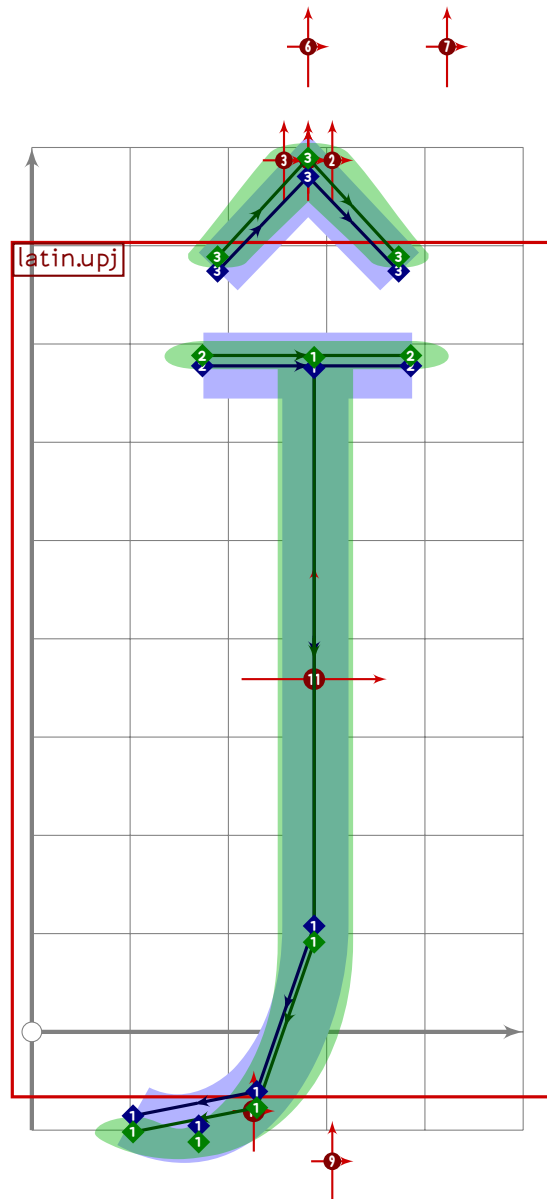
191 % I with breve
192 begintsuglyph("Ibreve";44);
193   tsu_accent.apply(tsu_accent.capital(latin.upi))(tsu_accent.breve);
194   tsu_render;
195 endtsuglyph;
196
197 % I with ogonek
198 begintsuglyph("Iogonek";46);
199   latin.upiogonek;
200   tsu_render;
201 endtsuglyph;
202

```

[see page 361]

01





01

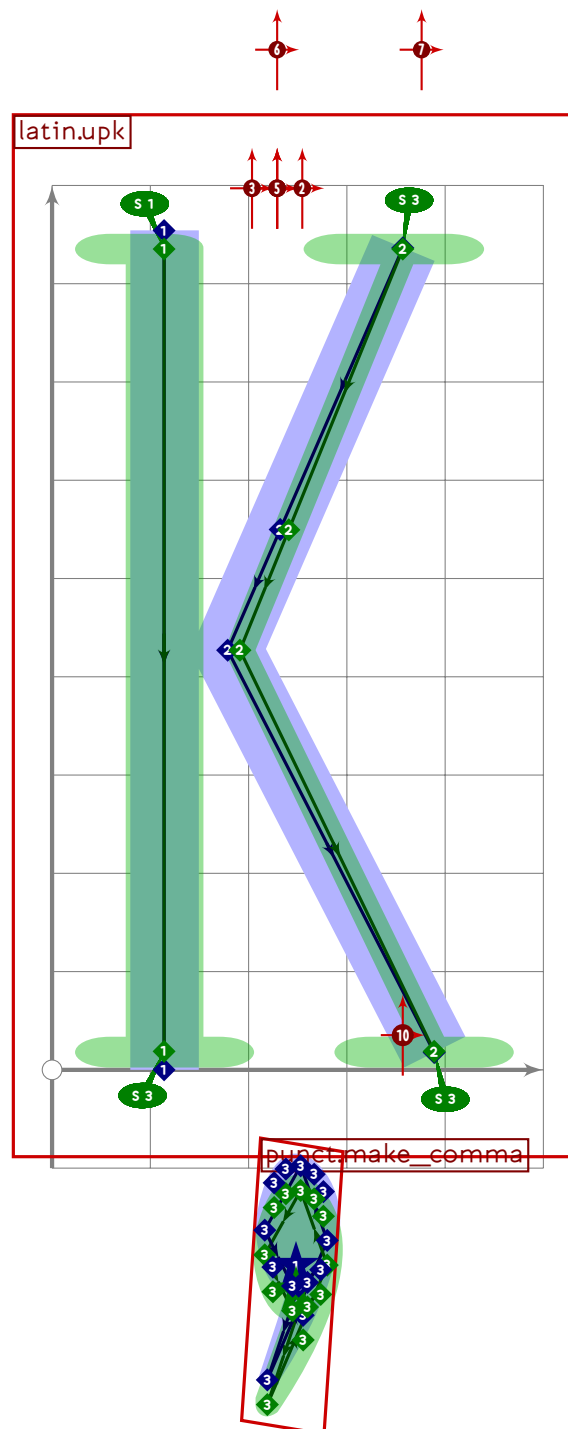
```

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

```

U+0136
tsuku.uni0136

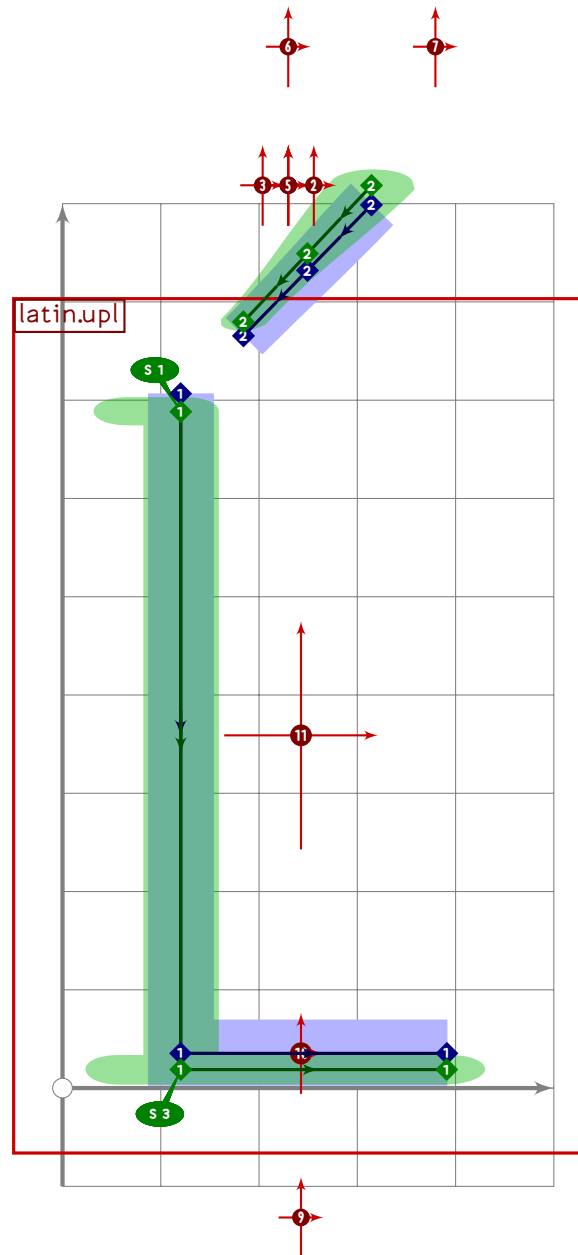
01



```

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

```



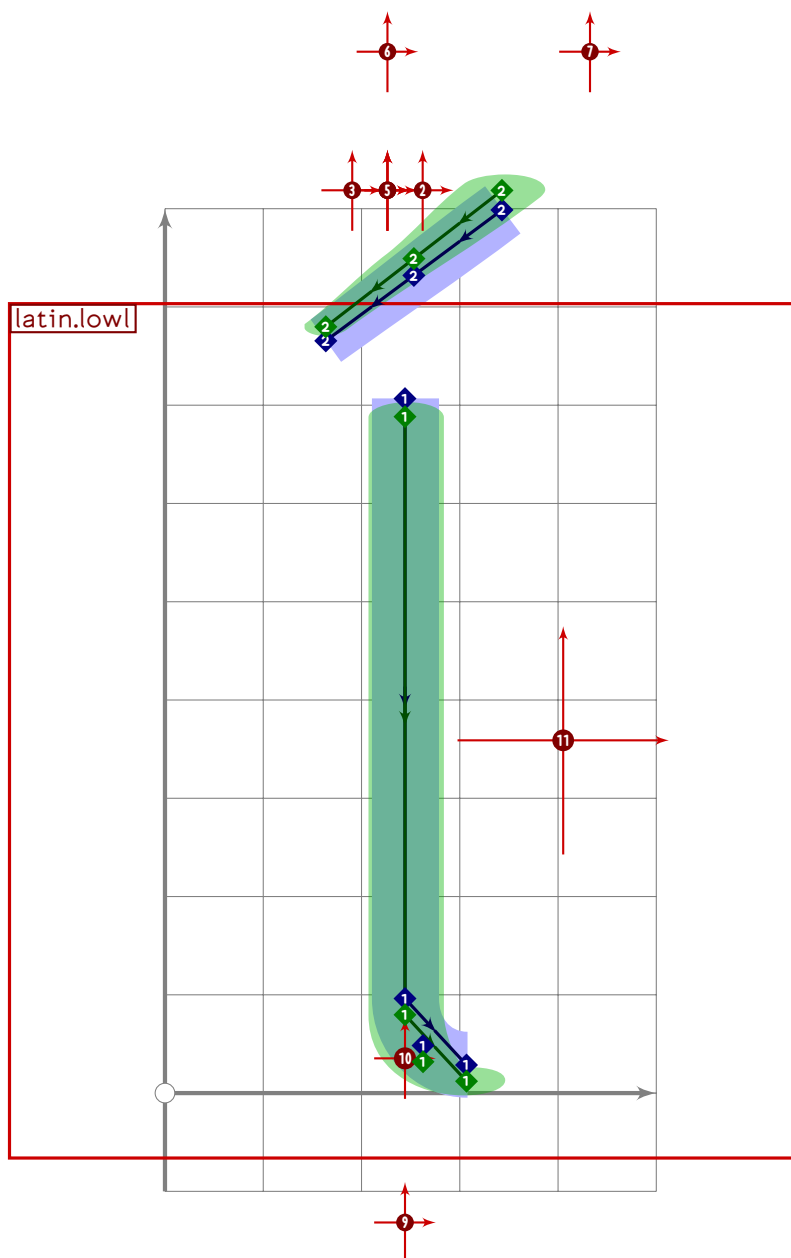
01

```

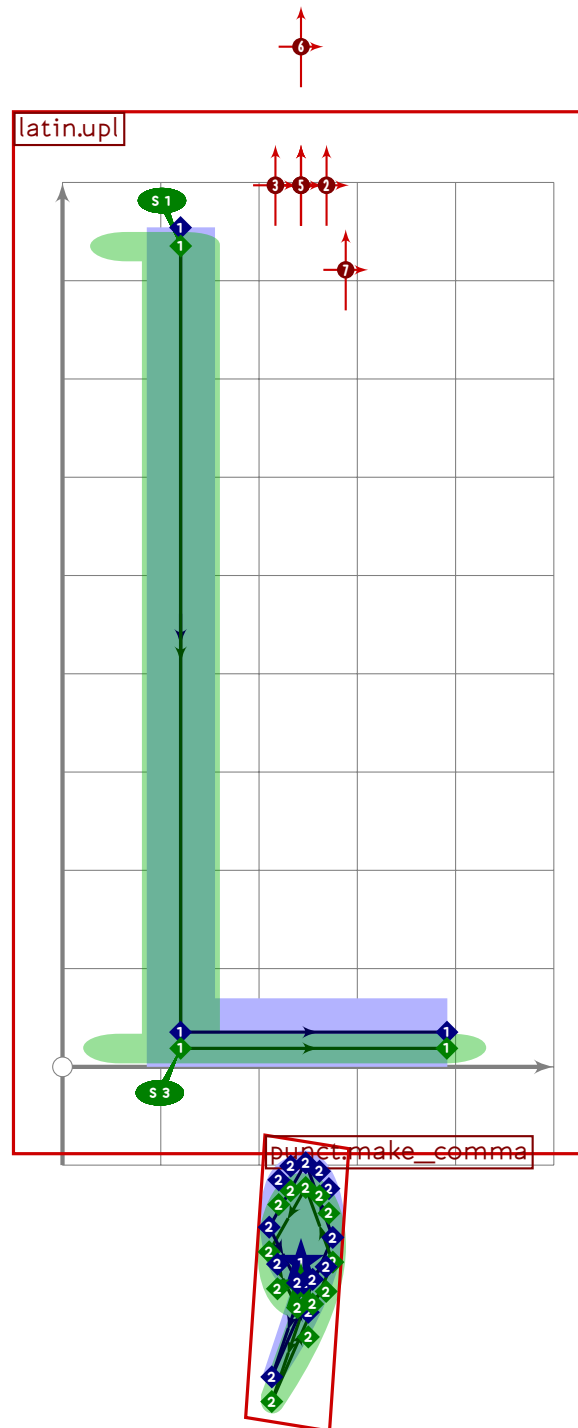
221 % L with acute
222 begintsuglyph("Lacute",57);
223   tsu_accent.apply(tsu_accent.capital(latin.upl))(tsu_accent.acute);
224   tsu_render;
225 endtsuglyph;
226

```

01



1310



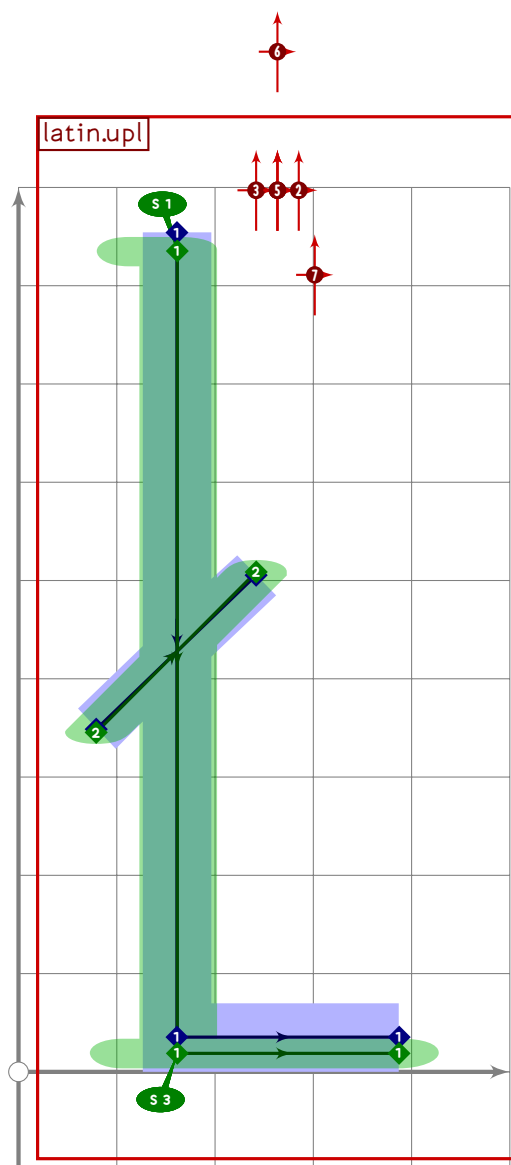
```

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

```

U+0141
tsuku.Lslash

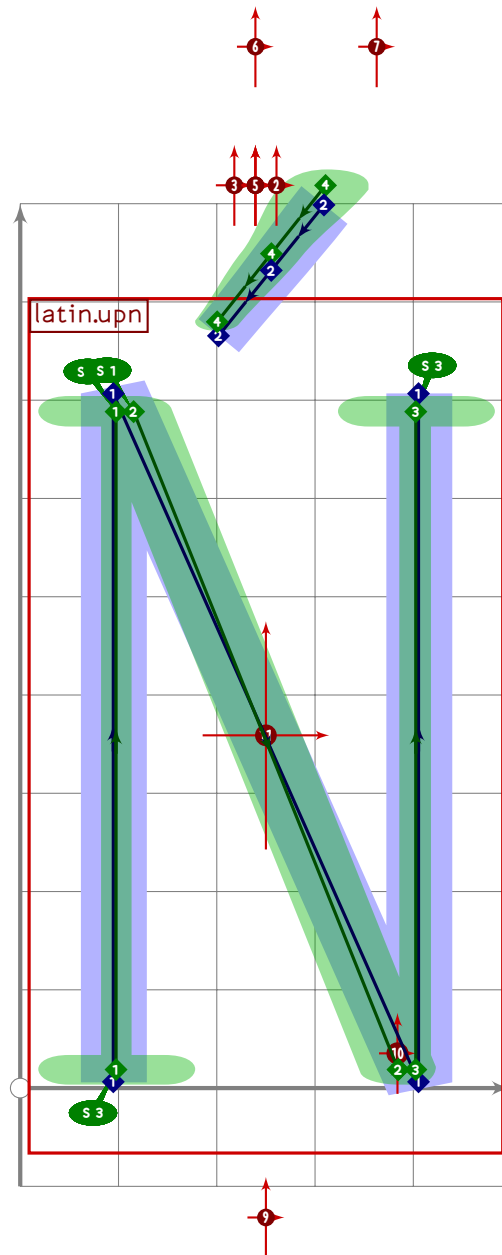
01



```

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

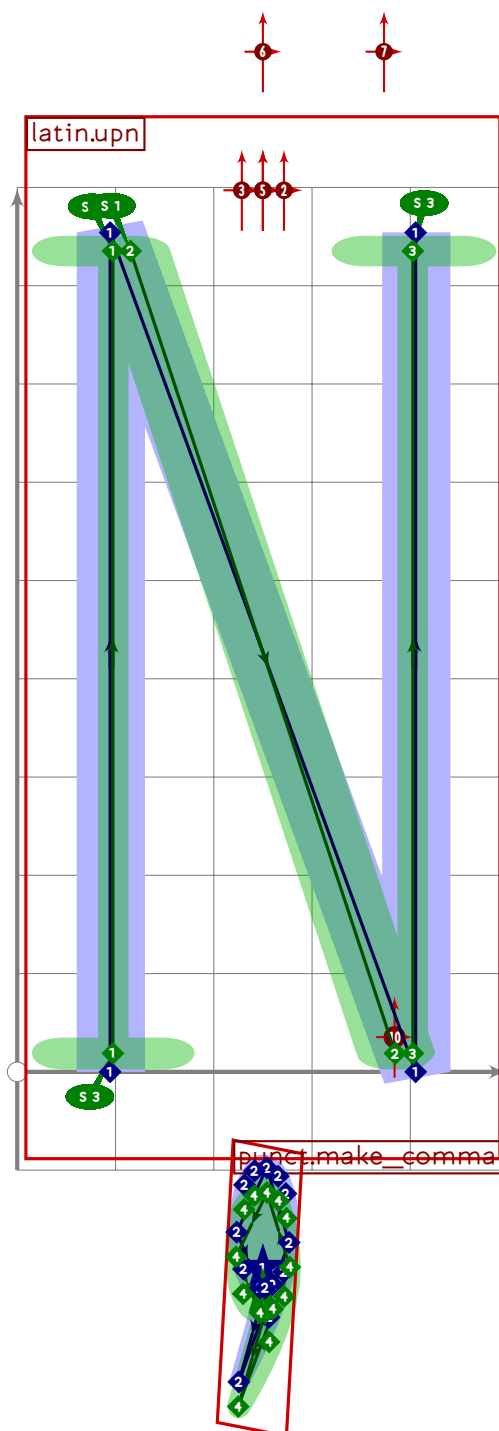
```

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

```

U+0145
tsuku.uni0145

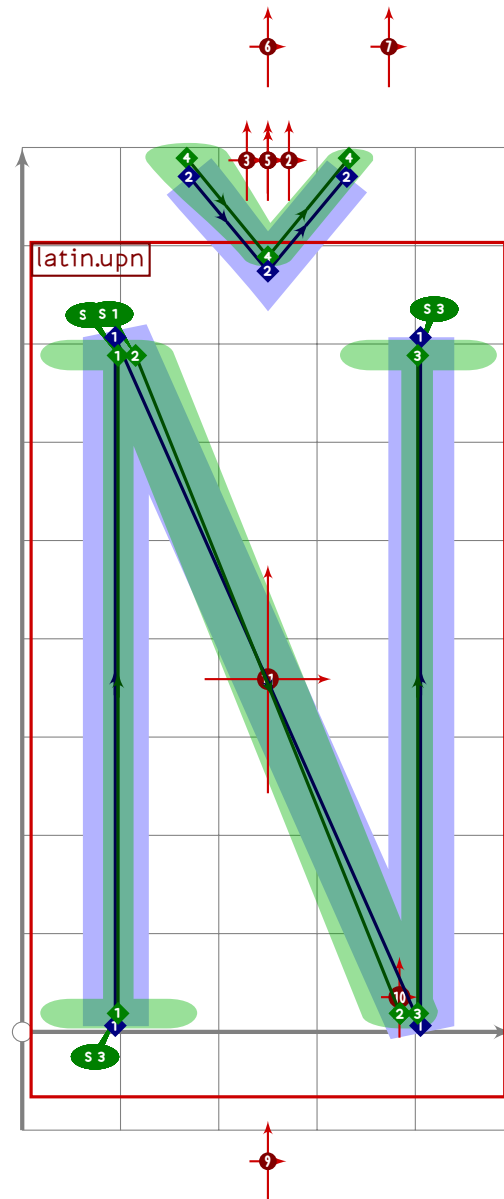
01



```

254 % N with comma below
255 beginsuglyph('uni0145';69);
256 tsu_accent.apply(latin.upn)(tsu_accent.commabelow);
257 tsu_render;
258 endtsuglyph;
259

```



01

```

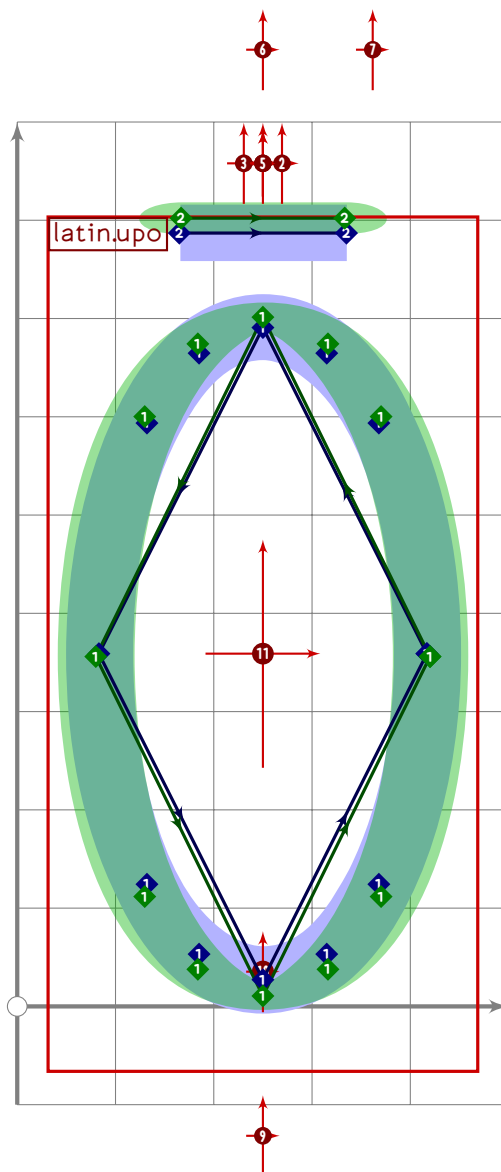
260 % N with caron
261 begintsuglyph("Ncaron";71);
262 tsu_accent.apply(tsu_accent.capital(latin.upn))(tsu_accent.caron);
263 tsu_render;
264 endtsuglyph;
265
266 % uppercase Eng
267 begintsuglyph("Eng";74);
268 latin.upeng;
269 tsu_render;
270 endtsuglyph;
271

```

[see page 281]

U+014C
tsuku.Omacron

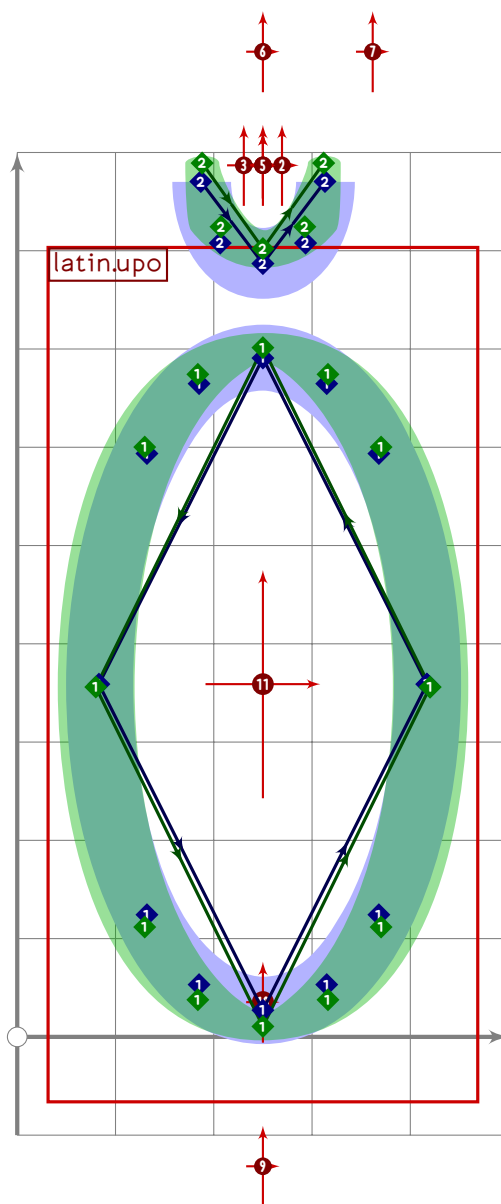
01



```

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

```



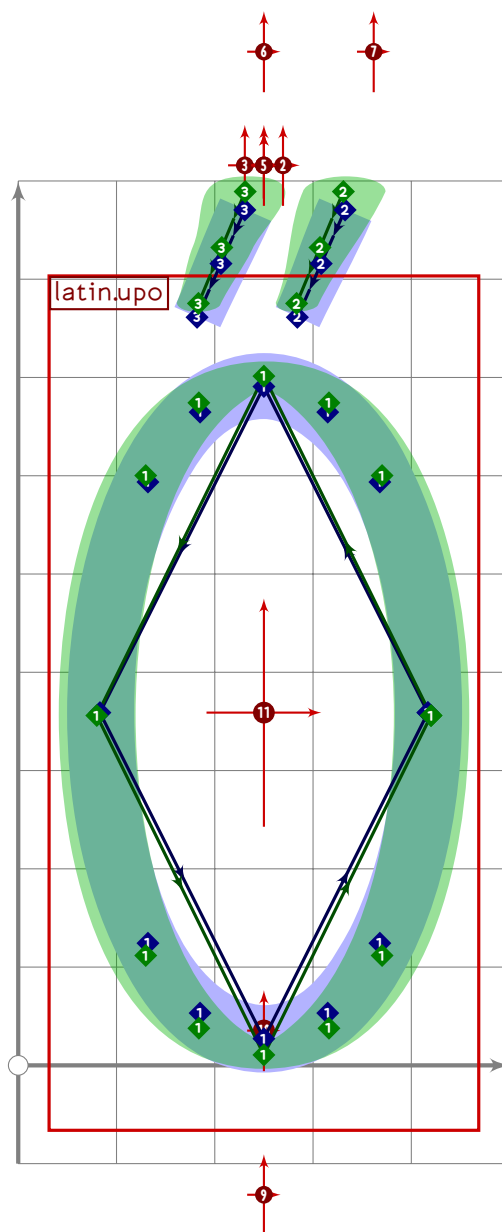
01

```

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

```

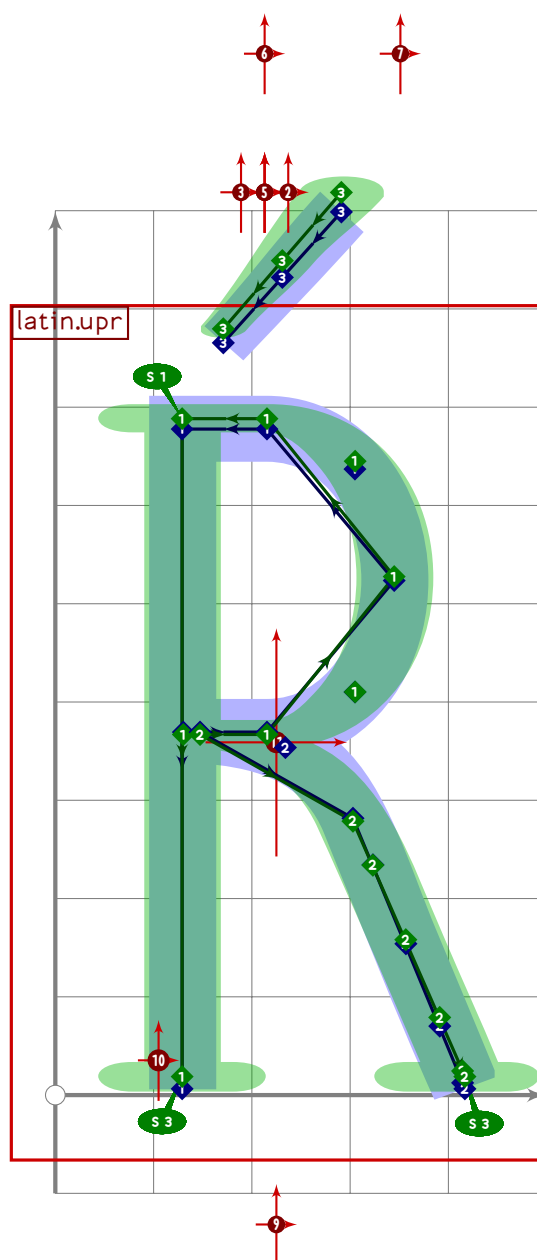
01



```

284 % Ö with Hungarian umlaut
285 begintsuglyph("Öhungarumlaut";80);
286   tsu_accent.apply(tsu_accent.capital(latin.upo))
287     (tsu_accent.hungarian_umlaut);
288   tsu_render;
289 endtsuglyph;
290

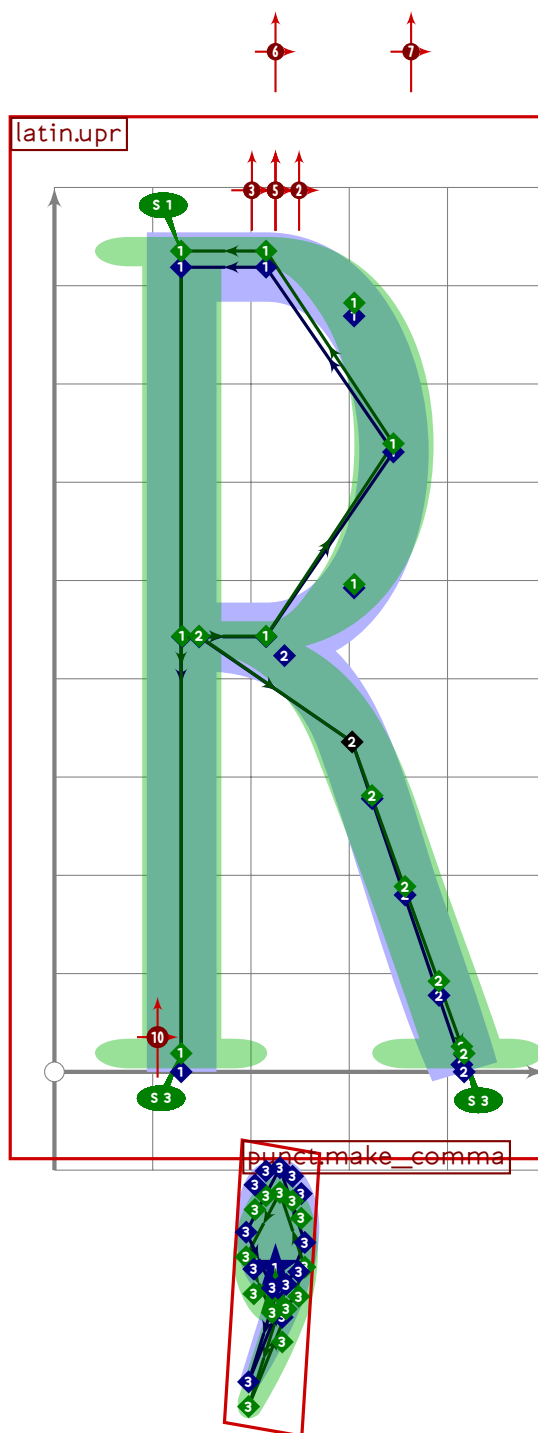
```



1319

U+0156
tsuku.uni0156

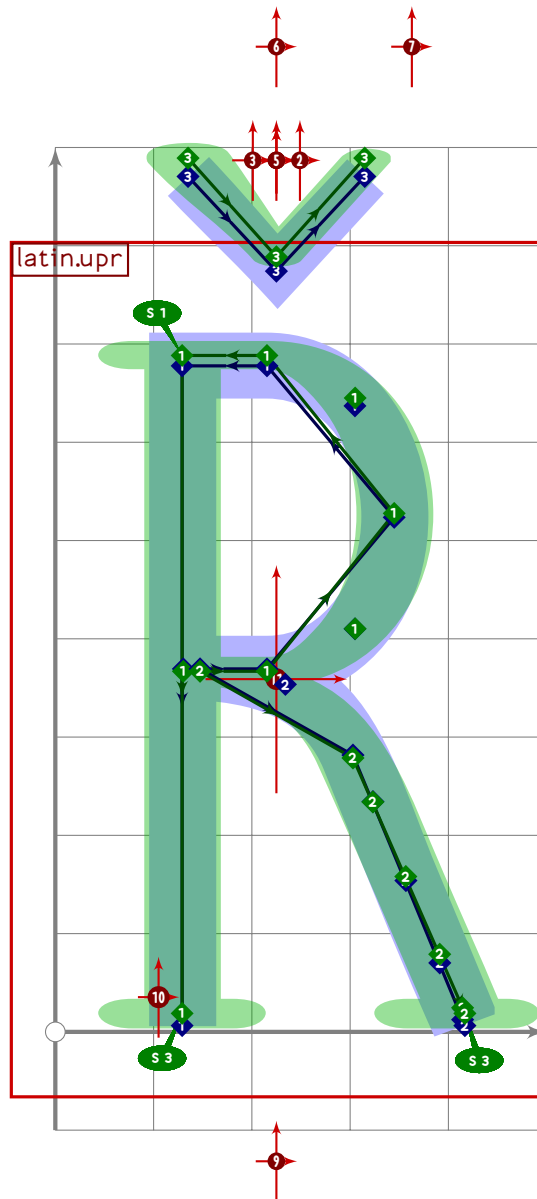
01



```

297 % R with comma below
298 begintsuglyph("uni0156";86);
299   tsu_accent.apply(latin.upr)(tsu_accent.commabelow);
300   tsu_render;
301 endtsuglyph;
302

```

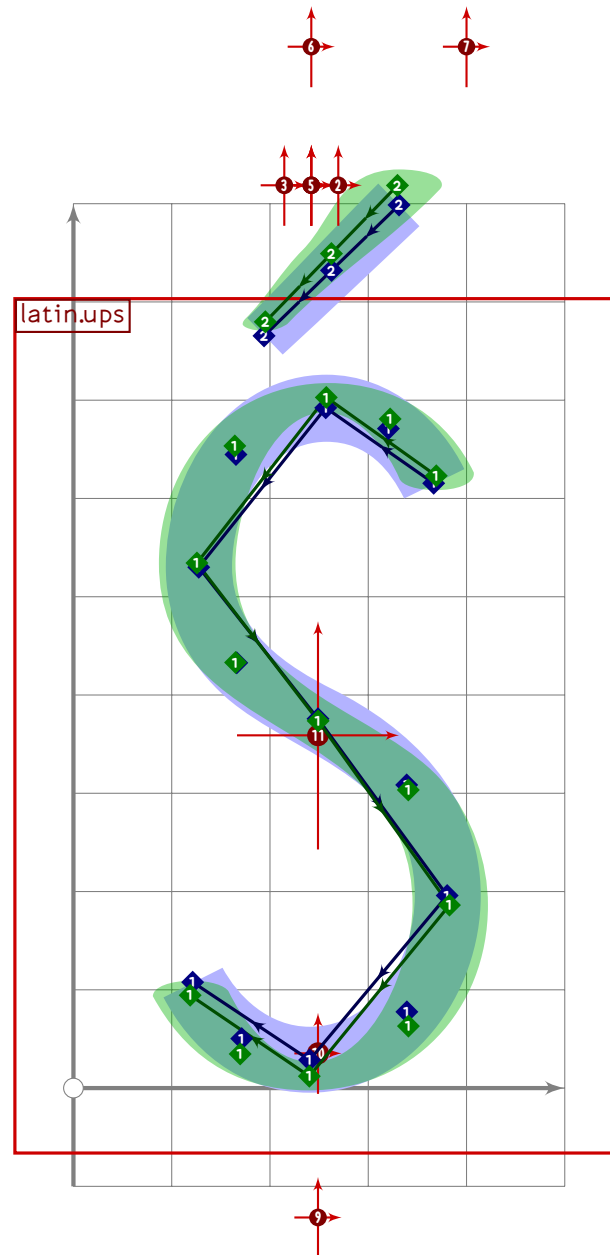



```

303 % R with caron
304 begintsuglyph("Rcaron";88);
305   tsu_accent.apply(tsu_accent.capital(latin.upr))(tsu_accent.caron);
306   tsu_render;
307 endtsuglyph;
308

```

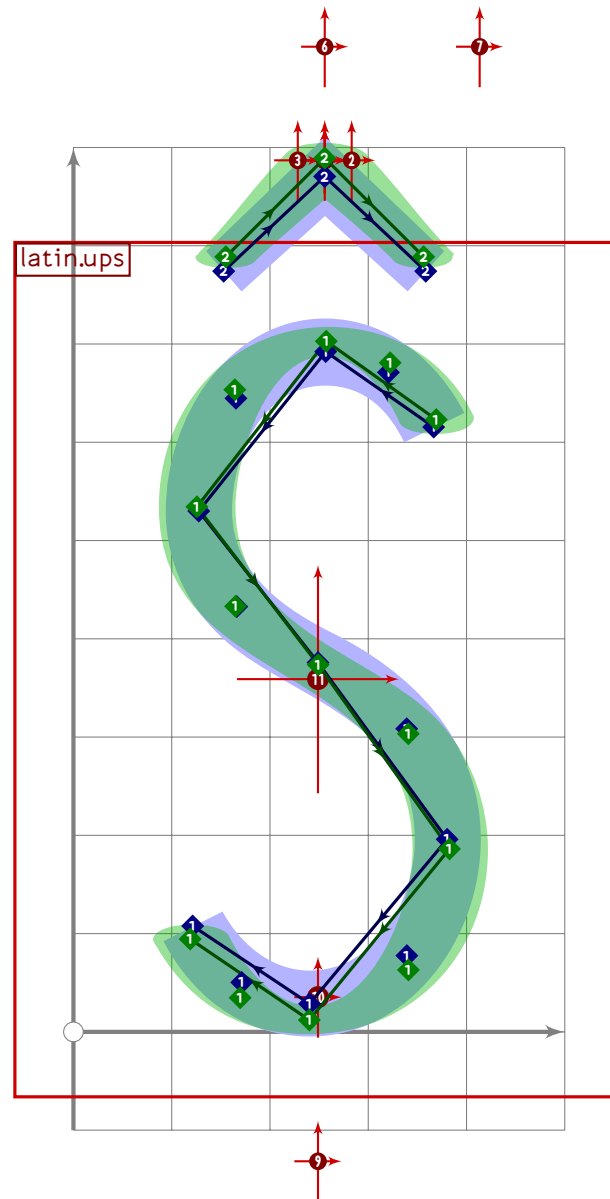
01



```

309 % S with acute
310 begintsuglyph("Sacute",90);
311   tsu_accent.apply(tsu_accent.capital(latin.ups))(tsu_accent.acute);
312   tsu_render;
313 endtsuglyph;
314

```



01

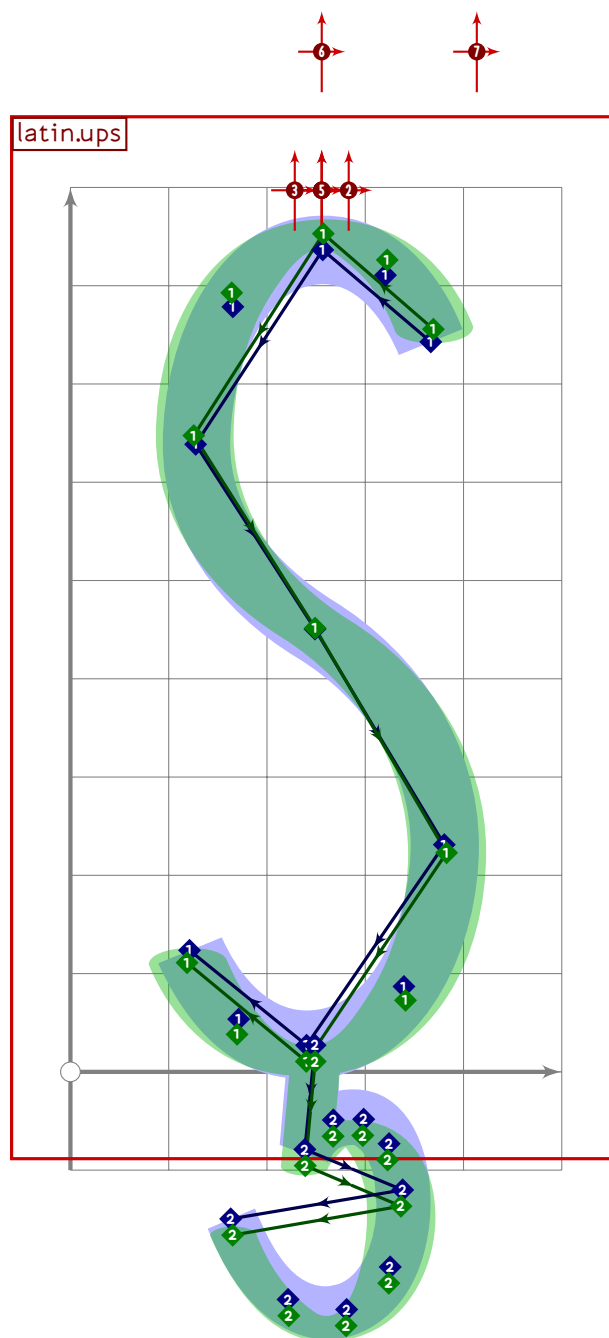
```

315 % S with circumflex
316 begintsuglyph("Scircumflex'92);
317   tsu_accent.apply(tsu_accent.capital(latin.ups))(tsu_accent.circumflex);
318   tsu_render;
319 endsuglyph;
320

```

U+015E
tsuku.Scedilla

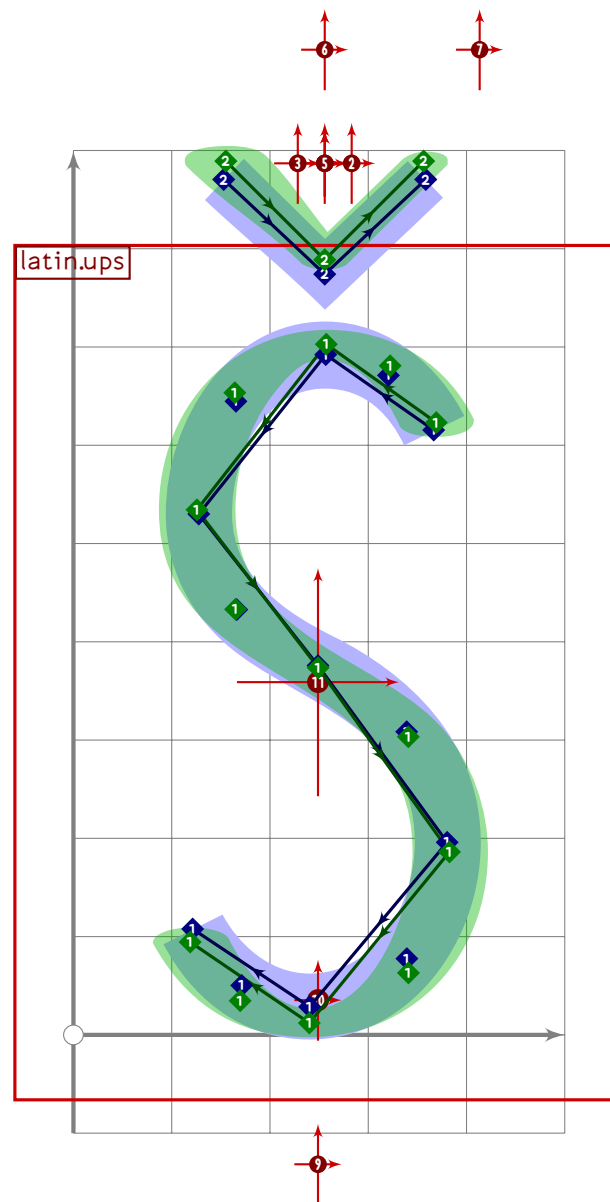
01



```

321 % S with cedilla
322 begintsuglyph("Scedilla";94);
323   tsu_accent.apply(latin.ups)(tsu_accent.cedilla);
324   tsu_render;
325 endtsuglyph;
326

```



01

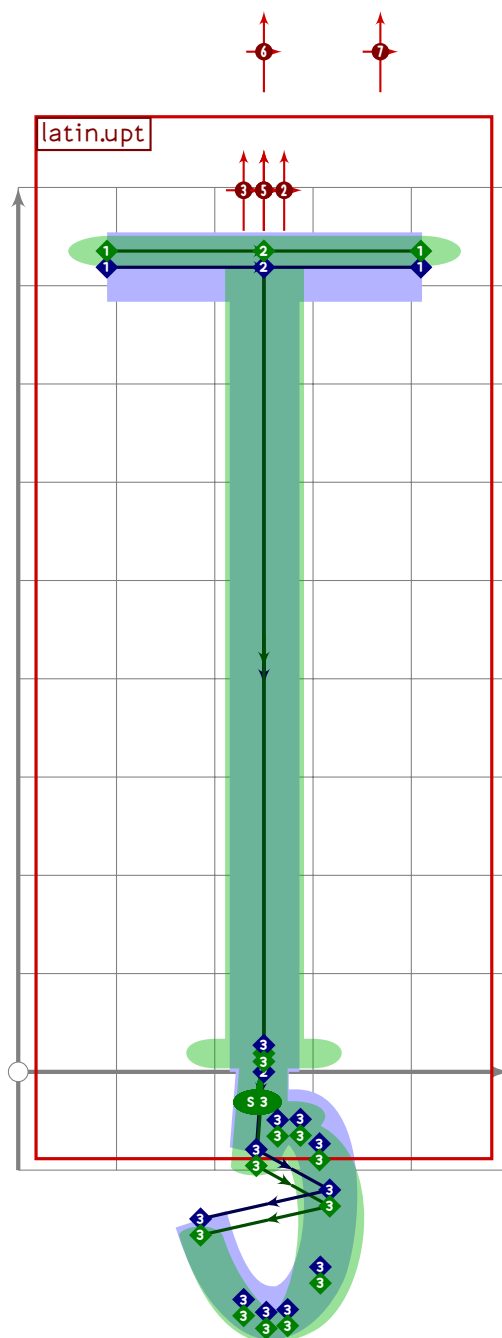
```

327 % S with caron
328 begintsuglyph("Scaron",96);
329   tsu_accent.apply(tsu_accent.capital(latin.ups))(tsu_accent.caron);
330   tsu_render;
331 endtsuglyph;
332

```

U+0162
tsuku.uni0162

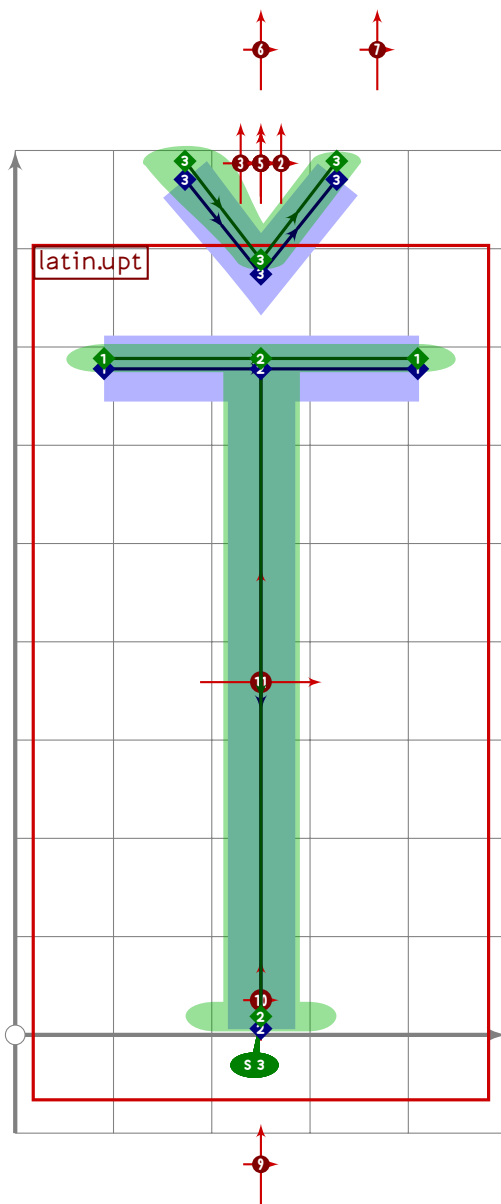
01



```

333 % T with cedilla [sic]
334 begintsuglyph('uni0162';98);
335   tsu_accent.apply(latin.upt)(tsu_accent.cedilla);
336   tsu_render;
337 endtsuglyph;
338

```



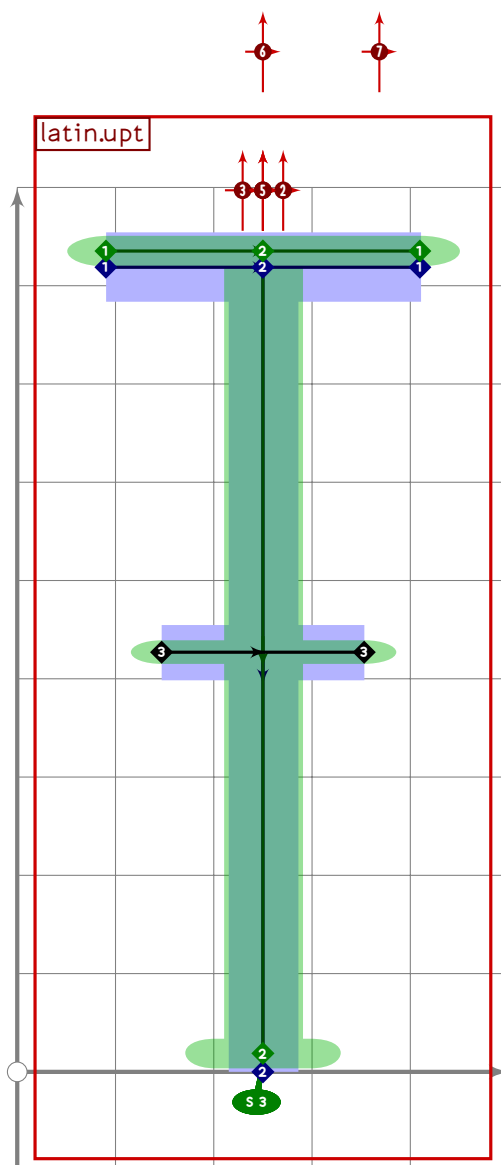
```

339 % T with caron
340 \beginTsuglyph{"Tcaron",100);
341   tsu__accent.apply(tsu__accent.capital(latin.upt))(tsu__accent.caron);
342   tsu__render;
343 \endTsuglyph;
344

```

U+0166
tsuku.Tbar

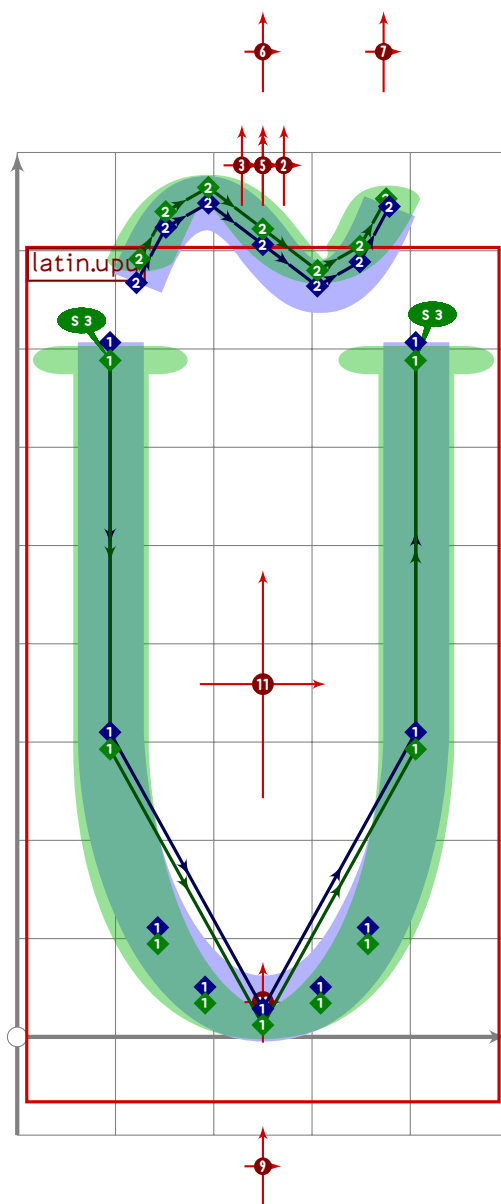
01



```

345 % T with bar
346 begintsuglyph("Tbar";102);
347   latin.upt;
348   push_stroke((300,vmetric(0.5))-(700,vmetric(0.5)),
349     (1.6,1.6)-(1.6,1.6));
350   set_bosize(0,80);
351   tsu_render;
352 endtsuglyph;
353

```

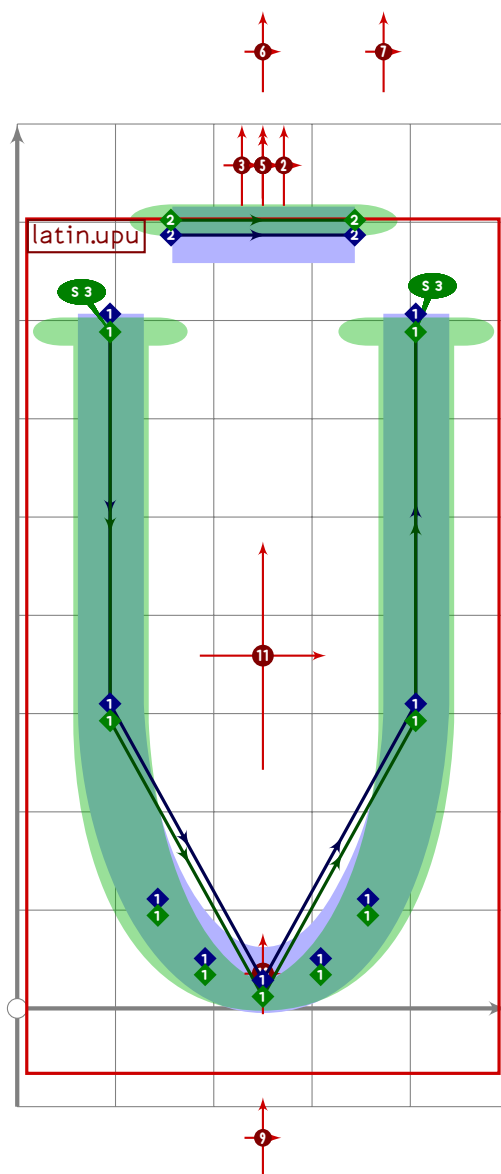
```

354 % U with tilde
355 begintsuglyph("Utilde",104);
356   tsu_accent.apply(tsu_accent.capital(latin.upu))(tsu_accent.tilde);
357   tsu_render;
358 endtsuglyph;
359

```

U+016A
tsuku.Umacron

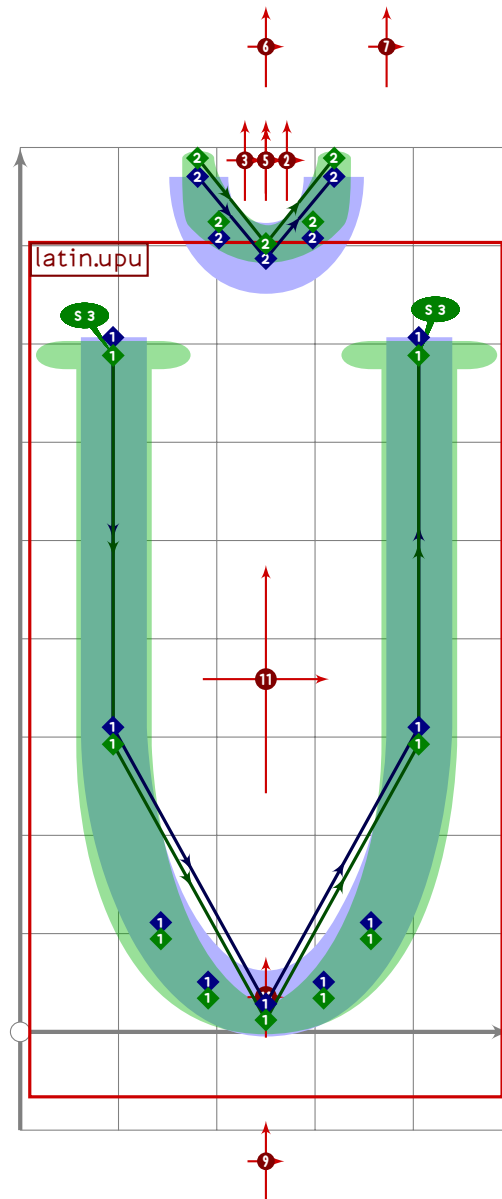
01



```

360 % U with macron
361 begintsuglyph("Umacron",106);
362   tsu_accent.apply(tsu_accent.capital(latin.upu))(tsu_accent.macron);
363   tsu_render;
364 endtsuglyph;
365

```

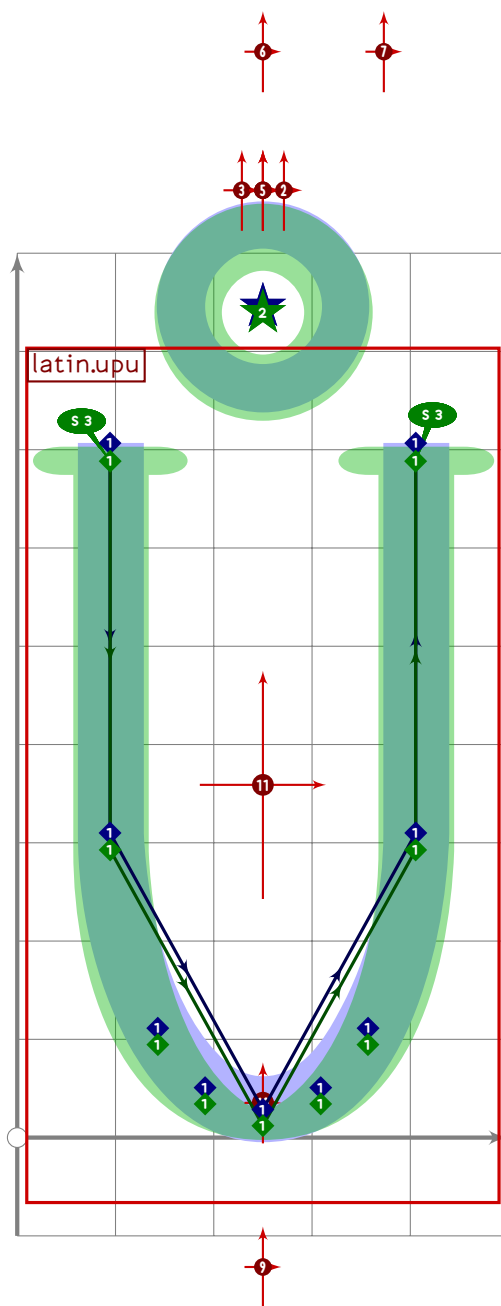


```

366 % U with breve
367 begint Suglyph("Ubreve",108);
368   tsu_accent.apply(tsu_accent.capital(latin.upu))(tsu_accent.breve);
369   tsu_render;
370 endtsuglyph;
371

```

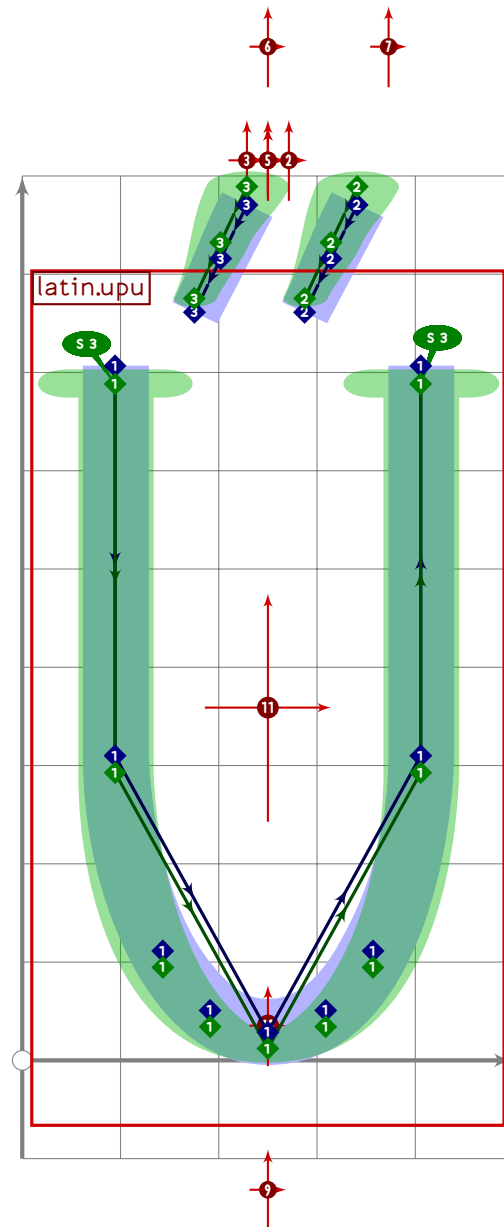
01



```

372 % U with ring above
373 begintsuglyph("Uring",110);
374   tsu_accent.apply(tsu_accent.capital(latin.upu))(tsu_accent.ringabove);
375   tsu_render;
376 endtsuglyph;
377

```



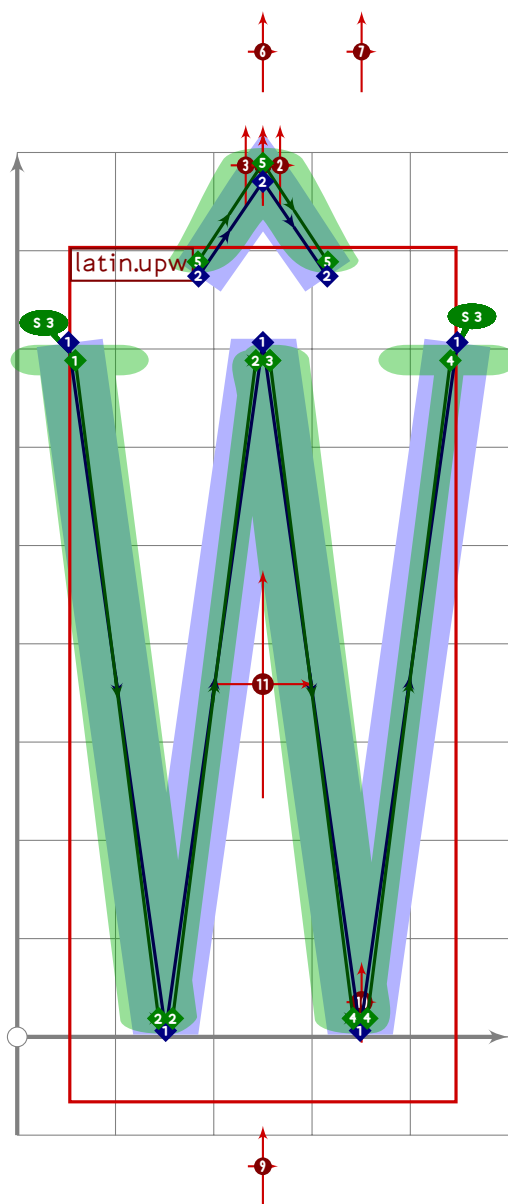
```

378 % U with Hungarian umlaut
379 begintsuglyph("Uhungarumlaut",112);
380     tsu__accent.apply(tsu__accent.capital(latin.upu))
381     (tsu__accent.hungarian_umlaut);
382     tsu__render;
383 endsuglyph;
384
385 % U with ogonek
386 begintsuglyph("Uogonek",114);
387     latin.upuogonek;
388     tsu__render;
389 endsuglyph;
390

```

[see page 363]

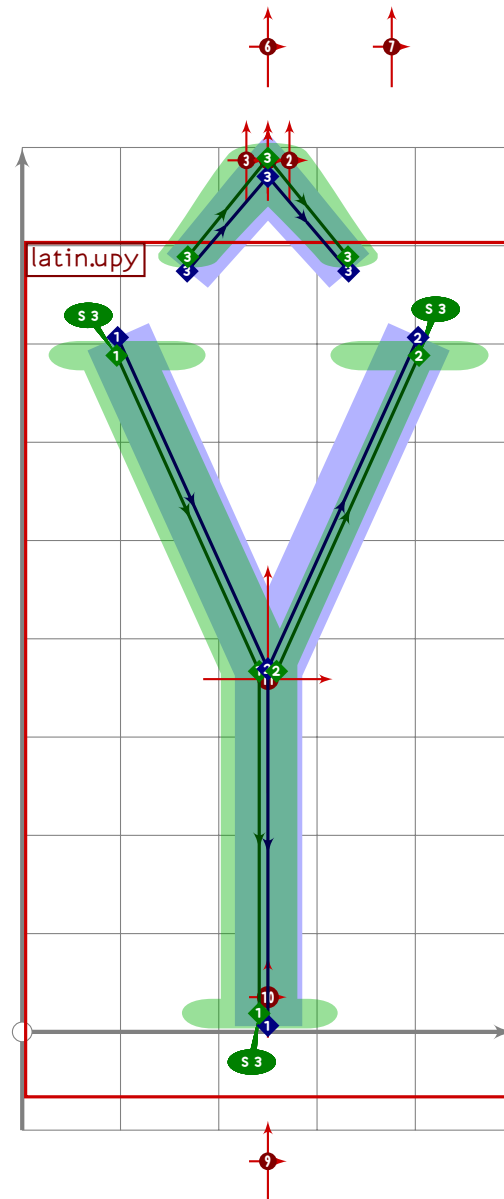
01



```

391 % W with circumflex
392 beginsuglyph("Wcircumflex",116);
393   tsu_accent.apply(tsu_accent.capital(latin.upw))(tsu_accent.circumflex);
394   tsu_render;
395 endsuglyph;
396

```



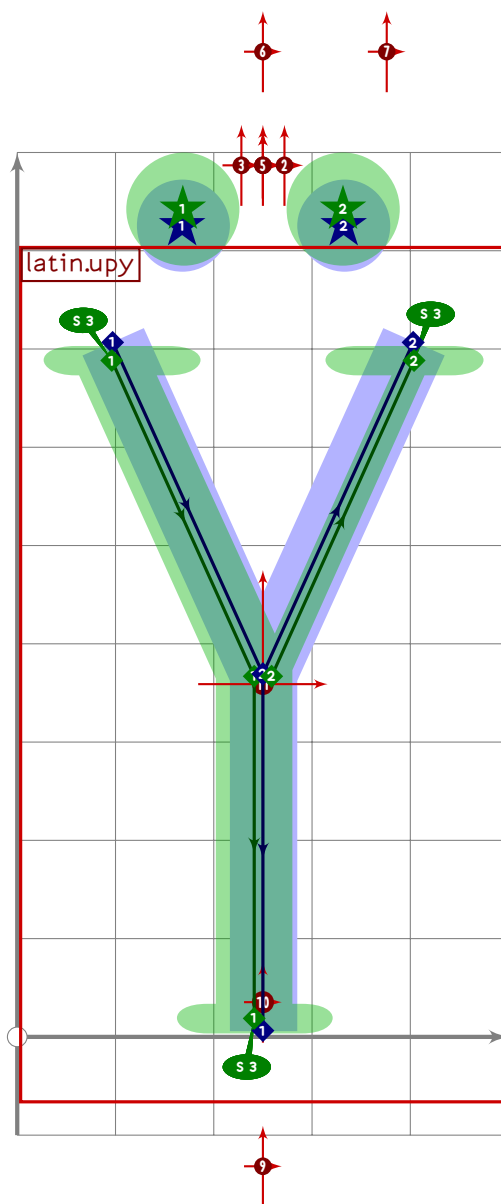
```

397 % Y with circumflex
398 begintsuglyph("Ycircumflex";118);
399 tsu_accent.apply(tsu_accent.capital(latin.upy))(tsu_accent.circumflex);
400 tsu_render;
401 endtsuglyph;
402

```

U+0178
tsuku.Ydieresis

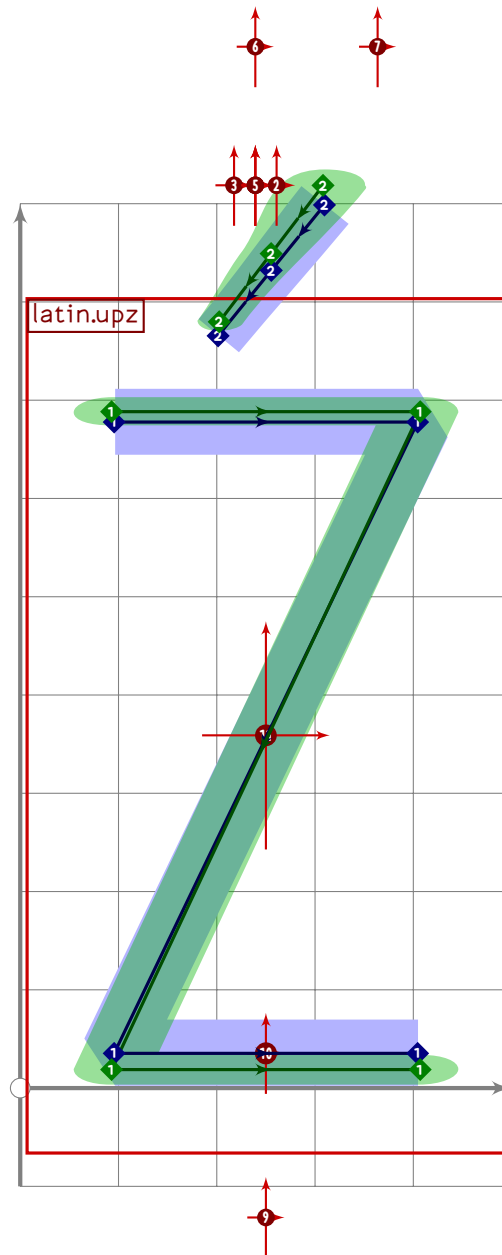
01



```

403 % Y with umlaut/dieresis
404 begintsuglyph("Ydieresis",120);
405   tsu_accent.apply(tsu_accent.capital(latin.upy))(tsu_accent.umlaut);
406   tsu_render;
407 endtsuglyph;
408

```

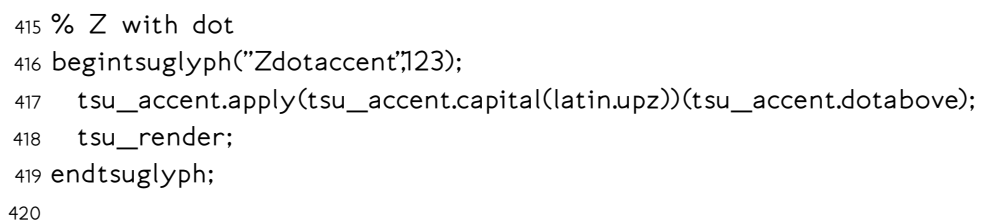
01

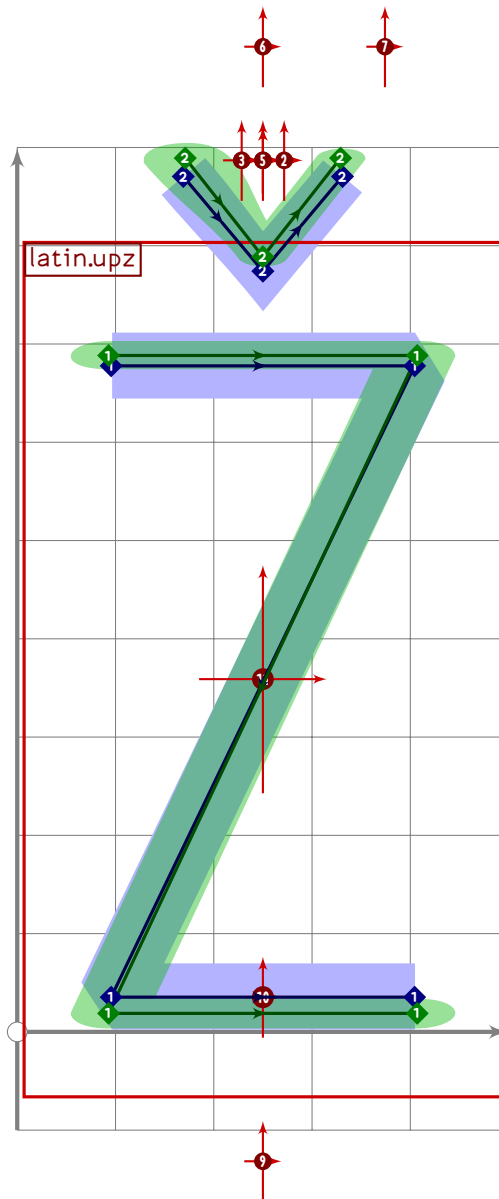
```

409 % Z with acute
410 begint Suglyph("Zacute",121);
411   tsu_accent.apply(tsu_accent.capital(latin.upz))(tsu_accent.acute);
412   tsu_render;
413 endtsuglyph;
414

```

01





01

```

421 % Z with caron
422 begintsuglyph("Zcaron",125);
423   tsu_accent.apply(tsu_accent.capital(latin.upz))(tsu_accent.caron);
424   tsu_render;
425 endtsuglyph;
426
427
428
```

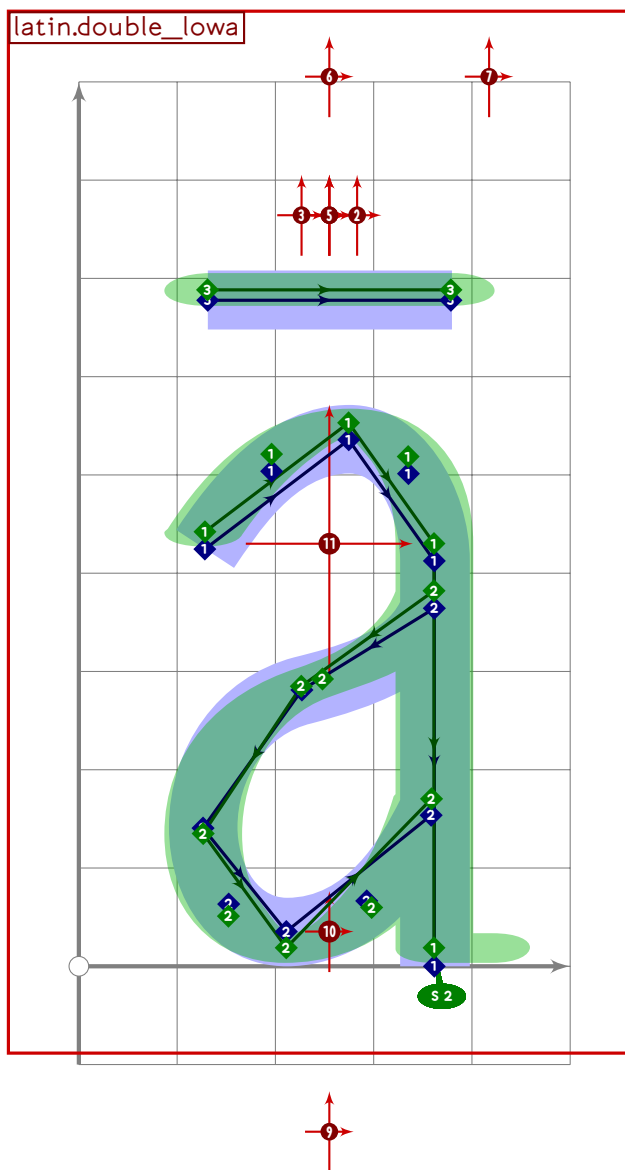
Latin Extended A Lowercase

```

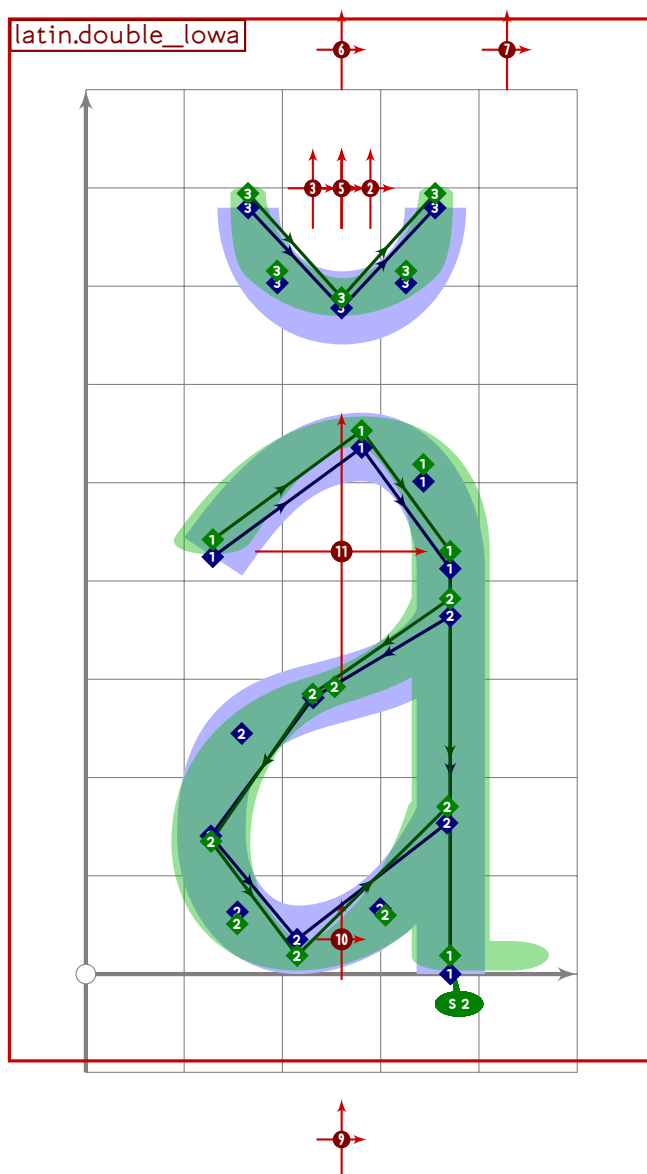
429 % LATIN EXTENDED A LOWERCASE
430
431 tsu_accent.low_default_anchors;
432
```

U+0101
tsuku.amacron

01



```
433 % a with macron
434 begintsuglyph("amacron",1);
435   tsu_accent.apply(latin.low_a)(tsu_accent.macron);
436   tsu_render;
437 endtsuglyph;
438
```



```

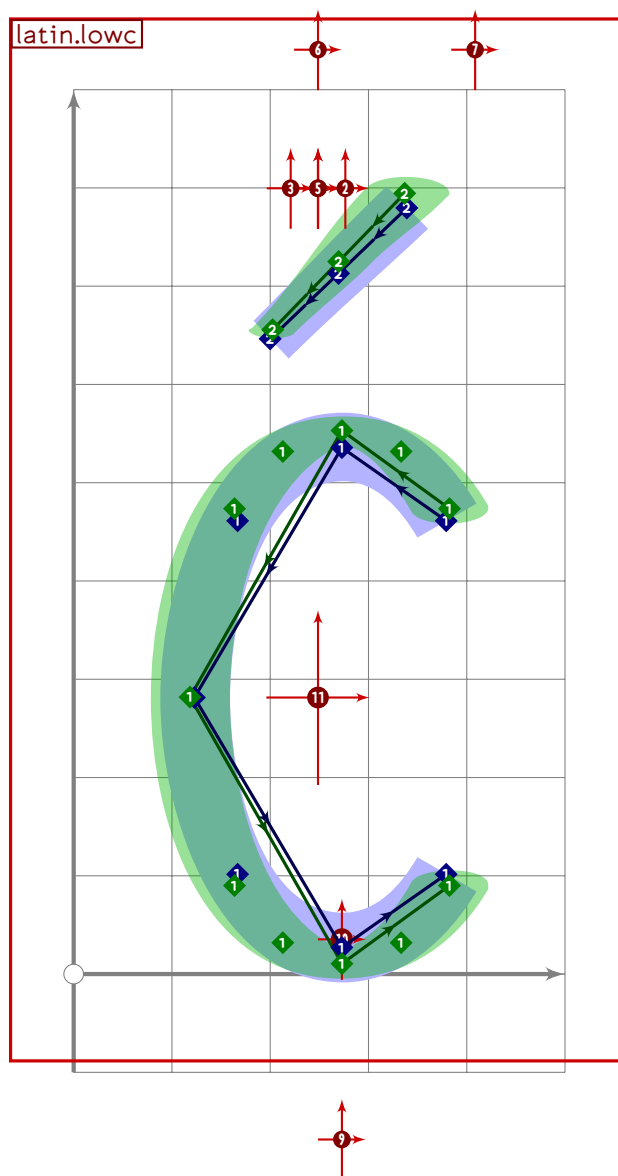
439 % a with breve
440 begintsuglyph("abreve";3);
441   tsu_accent.apply(latin.lowa)(tsu_accent.breve);
442   tsu_render;
443 endtsuglyph;
444
445 % a with ogonek
446 begintsuglyph("aogonek";5);
447   latin.lowaogonek;
448   tsu_render;
449 endtsuglyph;
450

```

[see page 365]

U+0107
tsuku.cacute

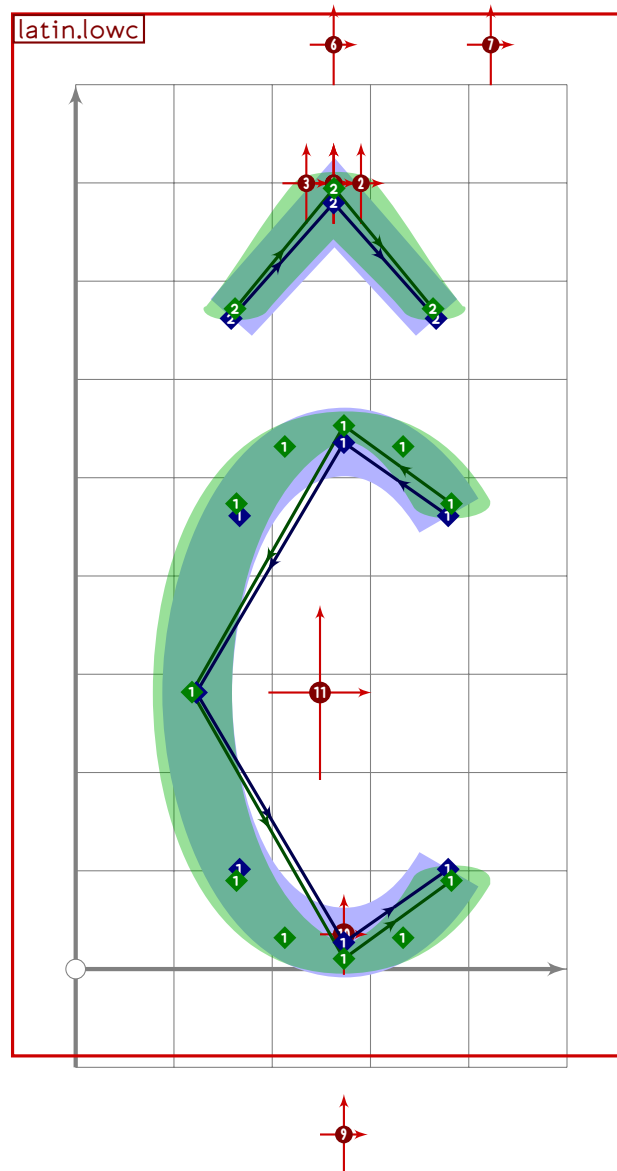
01



```

451 % c with acute
452 begint Suglyph('cacute';7);
453   tsu_accent.apply(latin.lowc)(tsu_accent.acute);
454   tsu_render;
455 endtsuglyph;
456

```



01

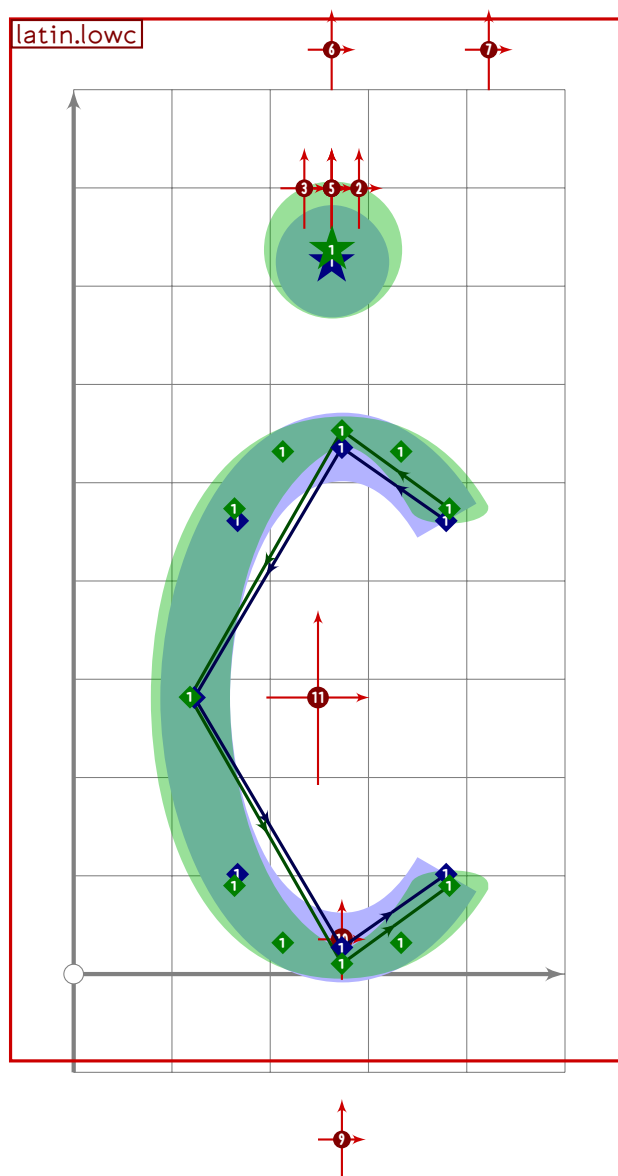
```

457 % c with circumflex
458 begint Suglyph('ccircumflex';9);
459   tsu_accent.apply(latin.lowc)(tsu_accent.circumflex);
460   tsu_render;
461 endtsuglyph;
462

```

U+010B
tsuku.cdota

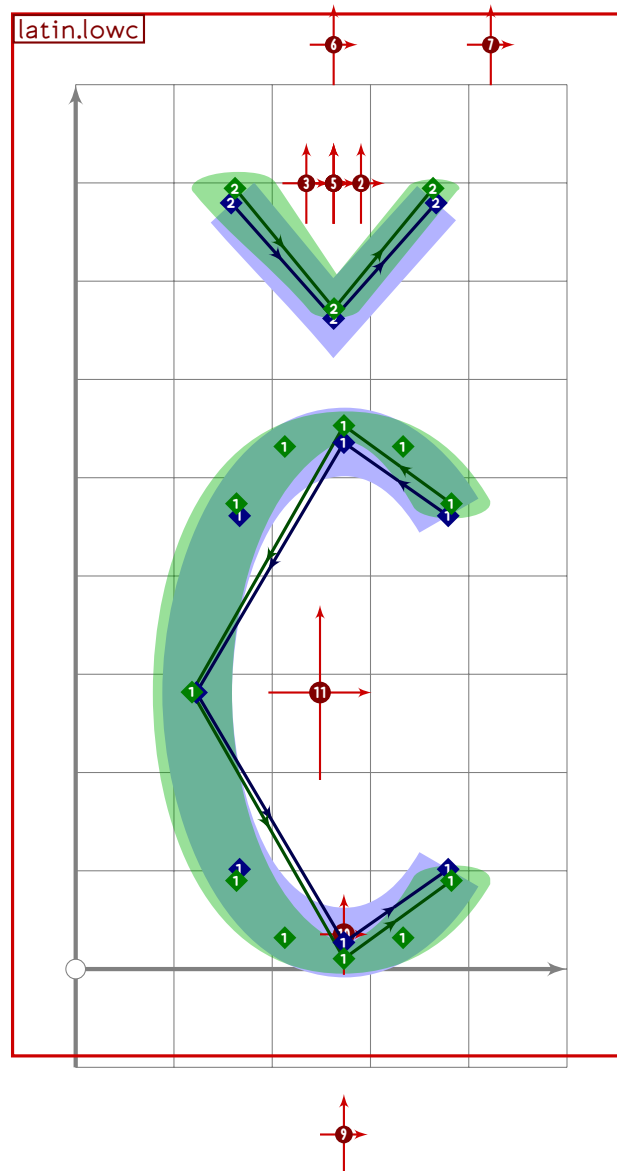
01



```

463 % c with dot above
464 begintsuglyph('cdota',11);
465   tsu_accent.apply(latin.lowc)(tsu_accent.dotaabove);
466   tsu_render;
467 endtsuglyph;
468

```

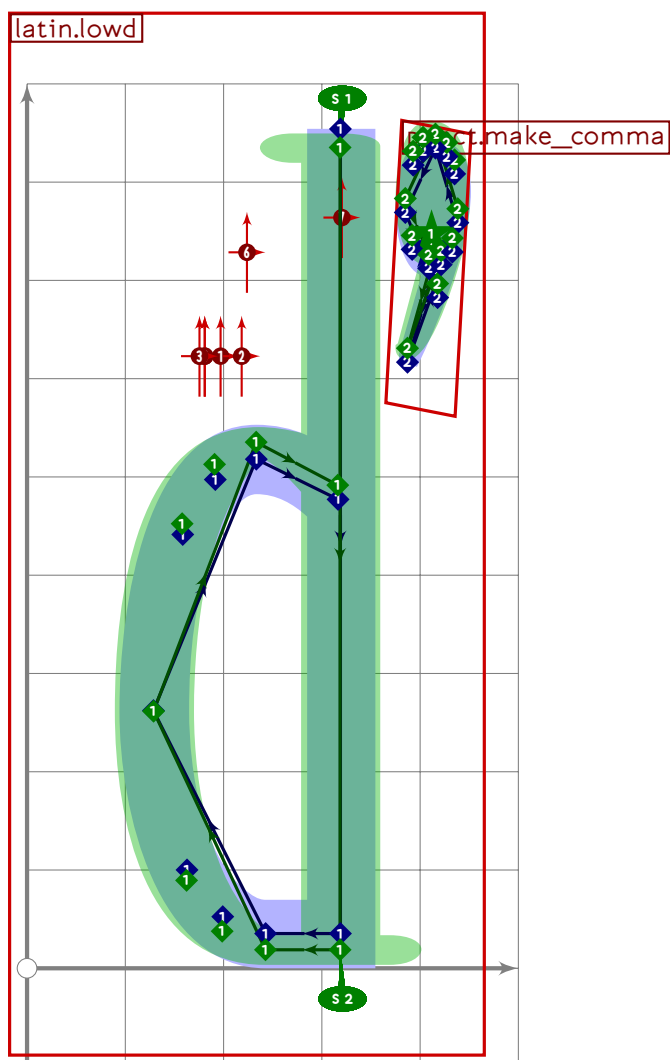
```

469 % c with caron
470 begint Suglyph('ccaron';13);
471   tsu_accent.apply(latin.lowc)(tsu_accent.caron);
472   tsu_render;
473 endtsuglyph;
474

```

U+010F
tsuku.dcaron

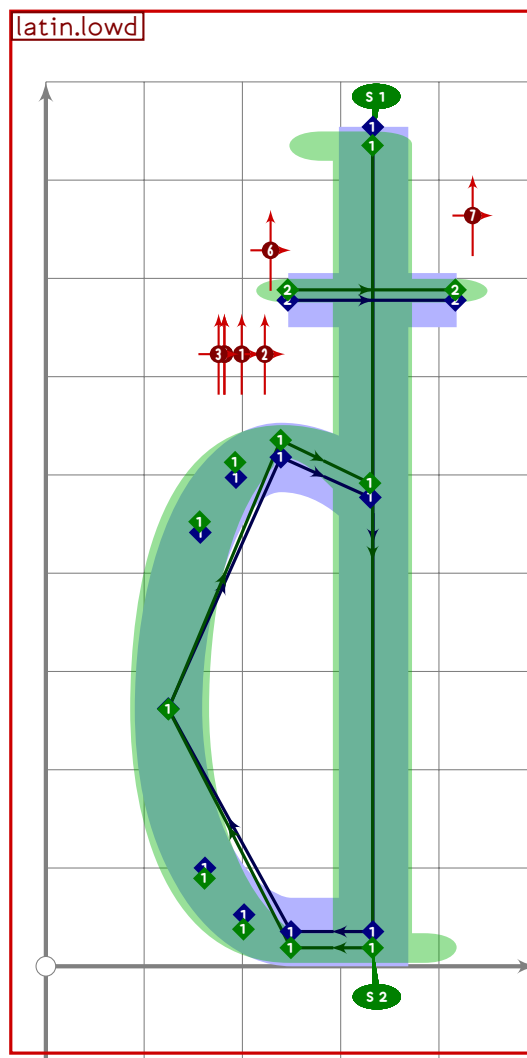
01



```

475 % d with caron apostrophe
476 beginsuglyph("dcaron",15);
477   tsu_accent.apply(latin.lowd)(tsu_accent.caron_comma);
478   tsu_render;
479 endsuglyph;
480

```



01

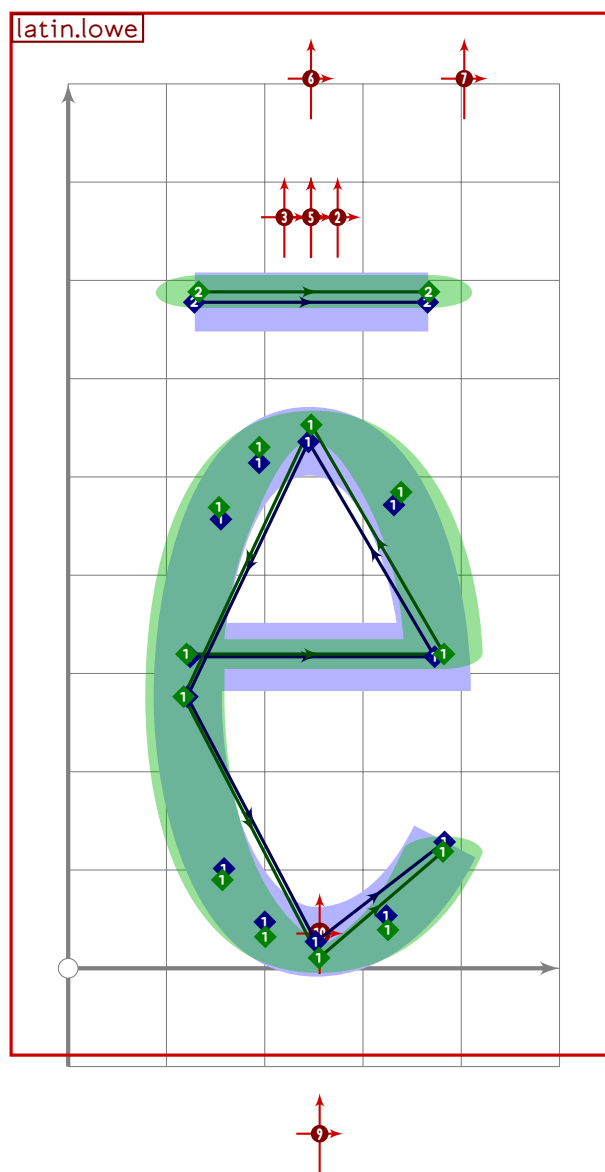
```

481 % d with bar
482 beginsuglyph("dcroat",17);
483 latin.lowd;
484 push_stroke((530,vmetric(0.82))-(820,vmetric(0.82)),
485   (1.6,1.6)-(1.6,1.6));
486 set_bosize(0,80);
487 tsu_render;
488 endsuglyph;
489

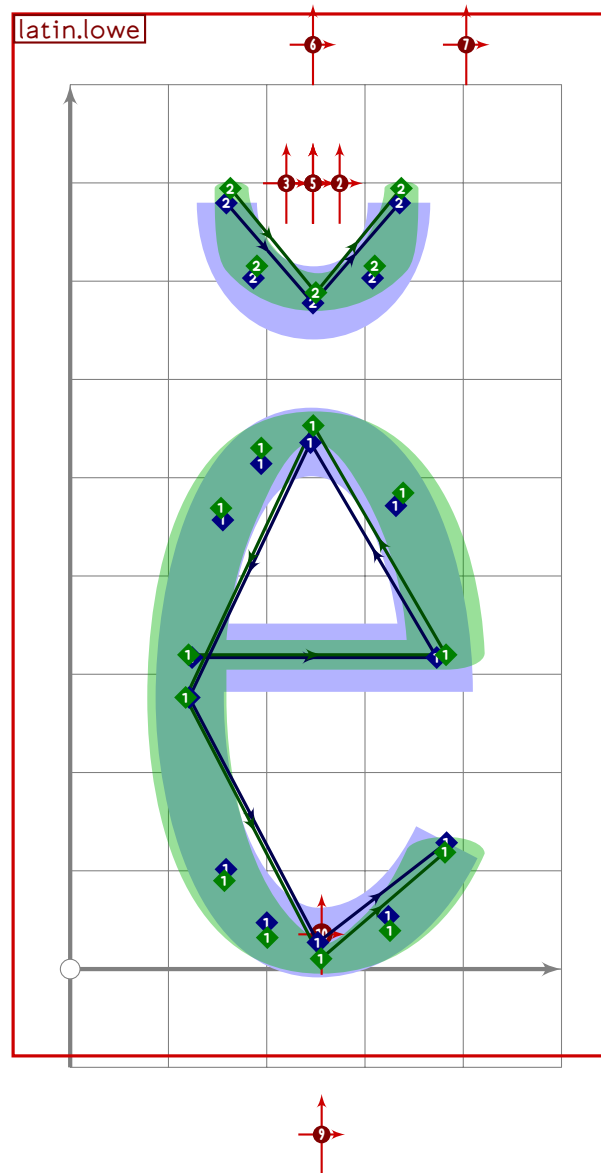
```

U+0113
tsuku.emacron

01



```
490 % e with macron
491 begintsuglyph("emacron",19);
492   tsu_accent.apply(latin.lowe)(tsu_accent.macron);
493   tsu_render;
494 endtsuglyph;
495
```

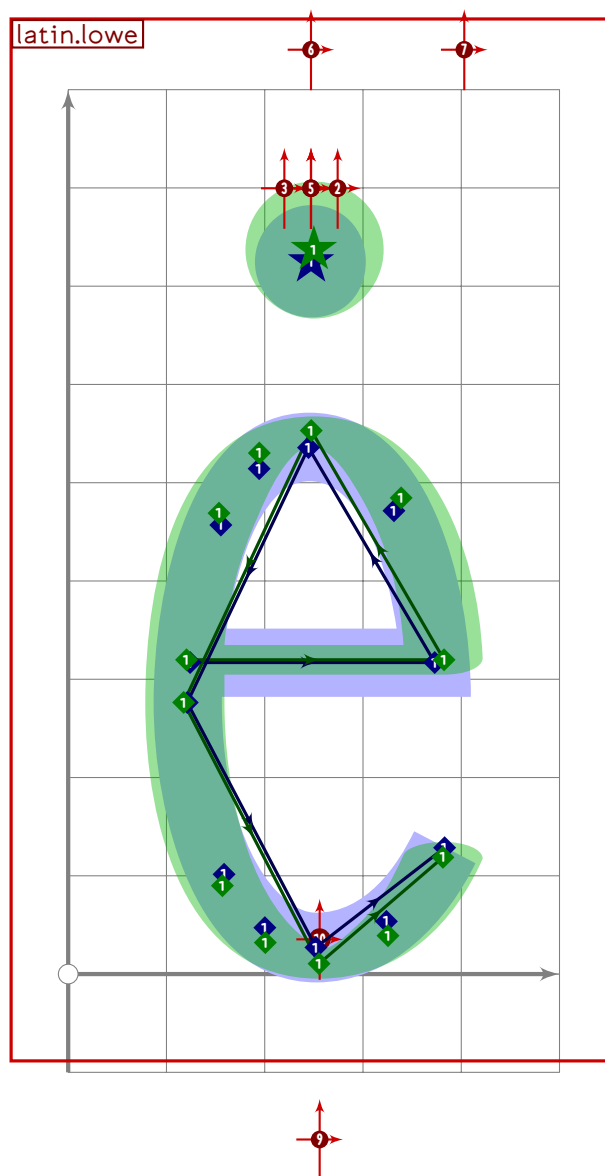


01

```

496 % e with breve
497 begintsuglyph("ebreve";21);
498   tsu_accent.apply(latin.lowe)(tsu_accent.breve);
499   tsu_render;
500 endtsuglyph;
501

```

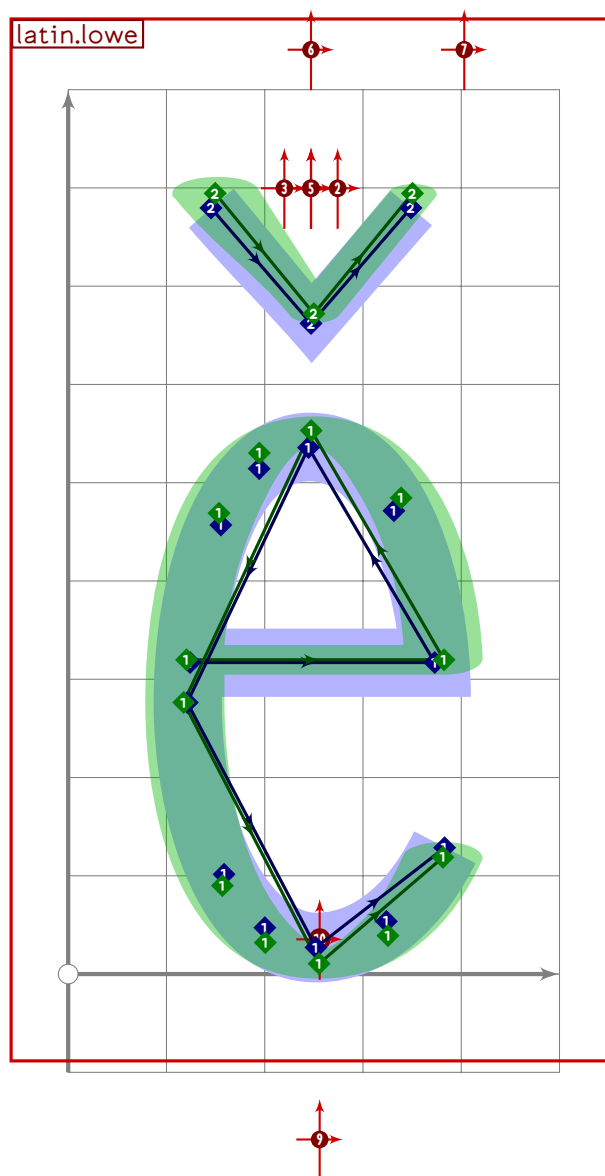


```

502 % e with dot
503 begintsuglyph("edotaccent";23);
504   tsu_accent.apply(latin.lowe)(tsu_accent.dotabove);
505   tsu_render;
506 endtsuglyph;
507
508 % e with ogonek
509 begintsuglyph("eogonek";25);
510   latin.loweogonek;
511   tsu_render;
512 endtsuglyph;
513

```

[see page 366]



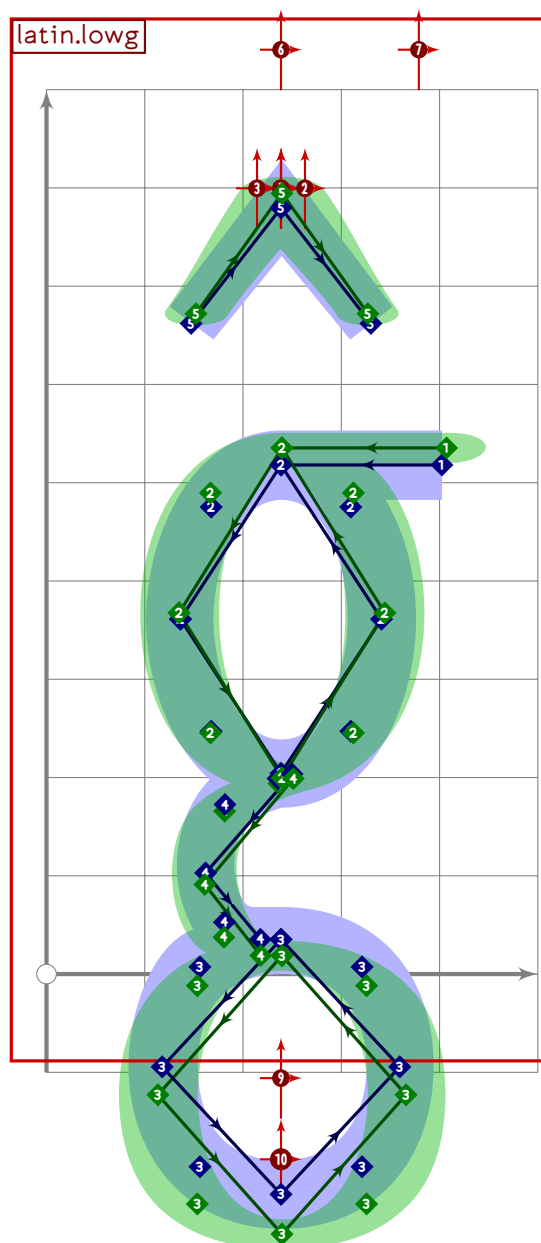
01

```

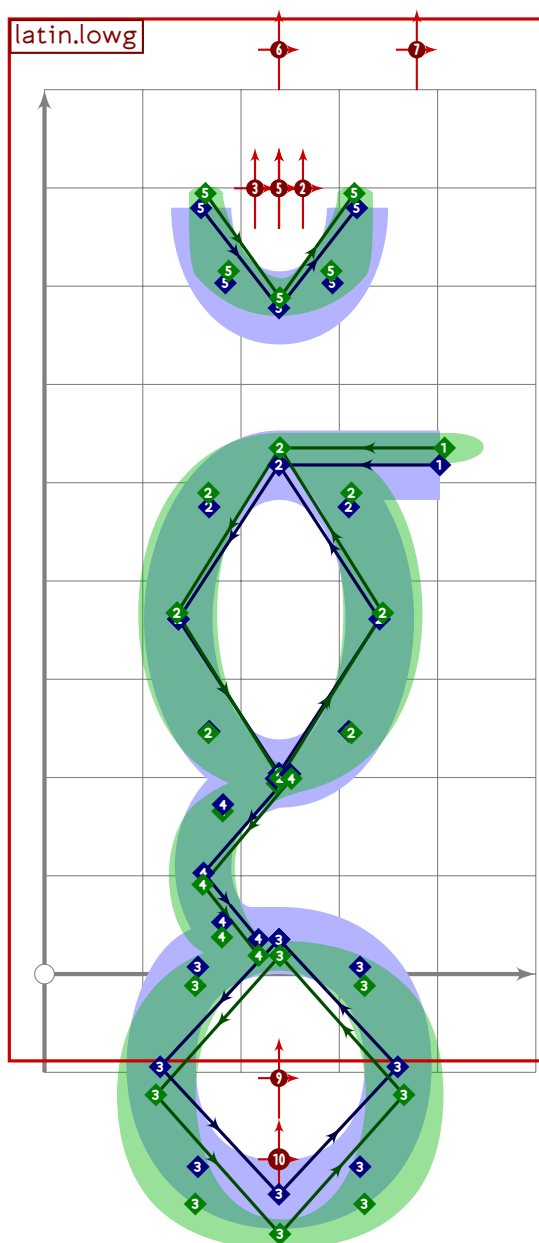
514 % e with caron
515 begintsuglyph("ecaron";27);
516   tsu_accent.apply(latin.lowe)(tsu_accent.caron);
517   tsu_render;
518 endtsuglyph;
519

```

01



1352



01

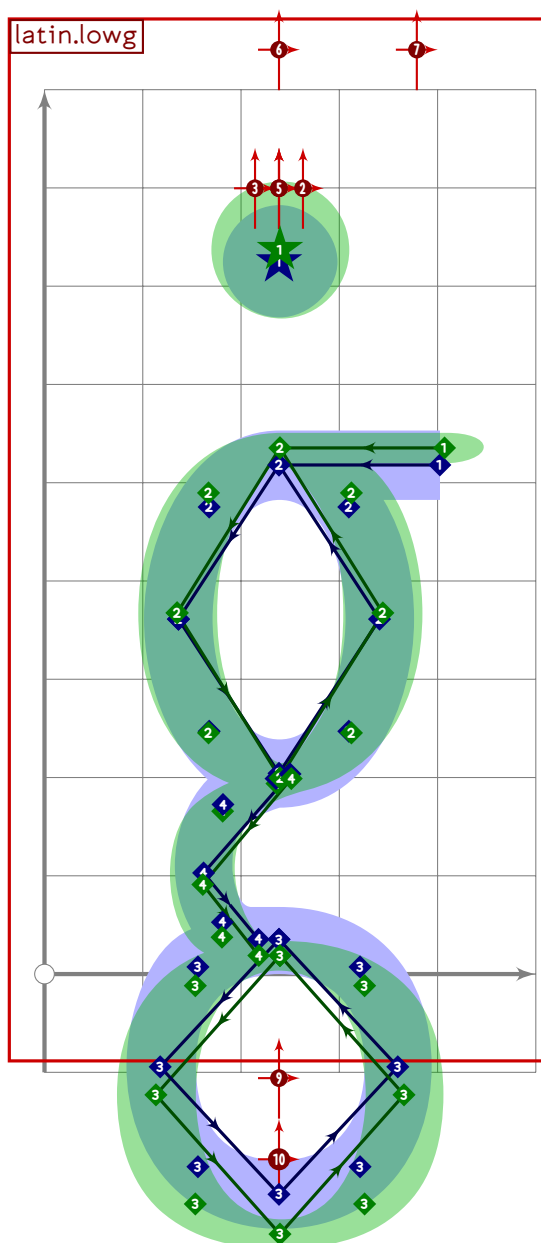
```

526 % g with breve
527 begint Suglyph("gbreve";31);
528   tsu_accent.apply(latin.lowg)(tsu_accent.breve);
529   tsu_render;
530 endtsuglyph;
531

```

U+0121
tsuku.gdotaccent

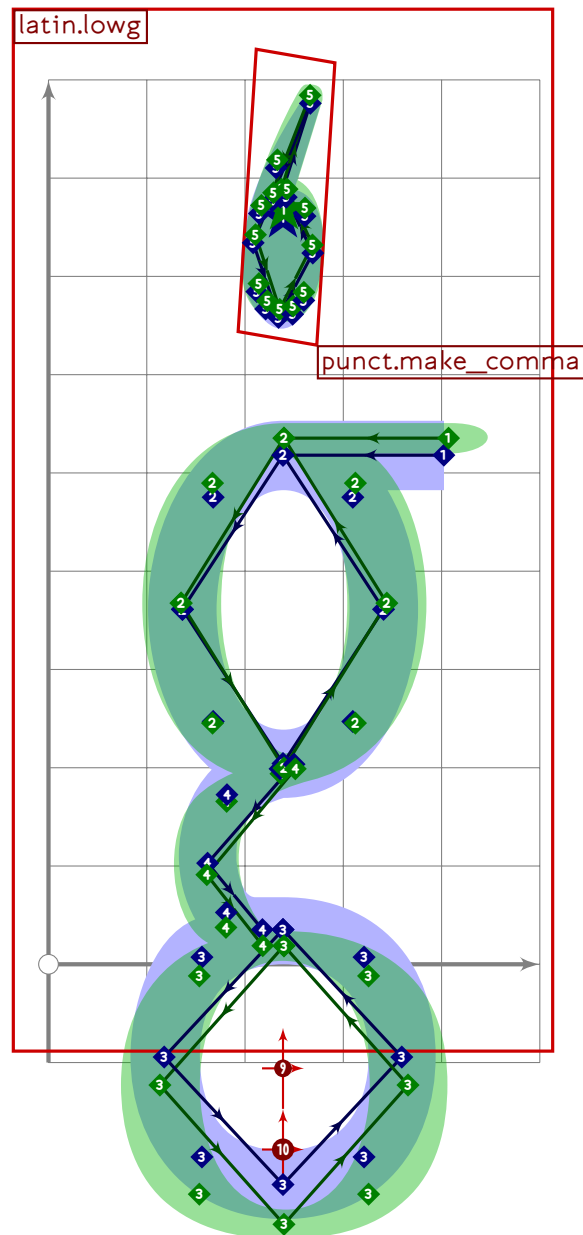
01



```

532 % g with dot
533 begint Suglyph("gdotaccent";33);
534   tsu_accent.apply(latin.lowg)(tsu_accent.dotabove);
535   tsu_render;
536 endtsuglyph;
537

```



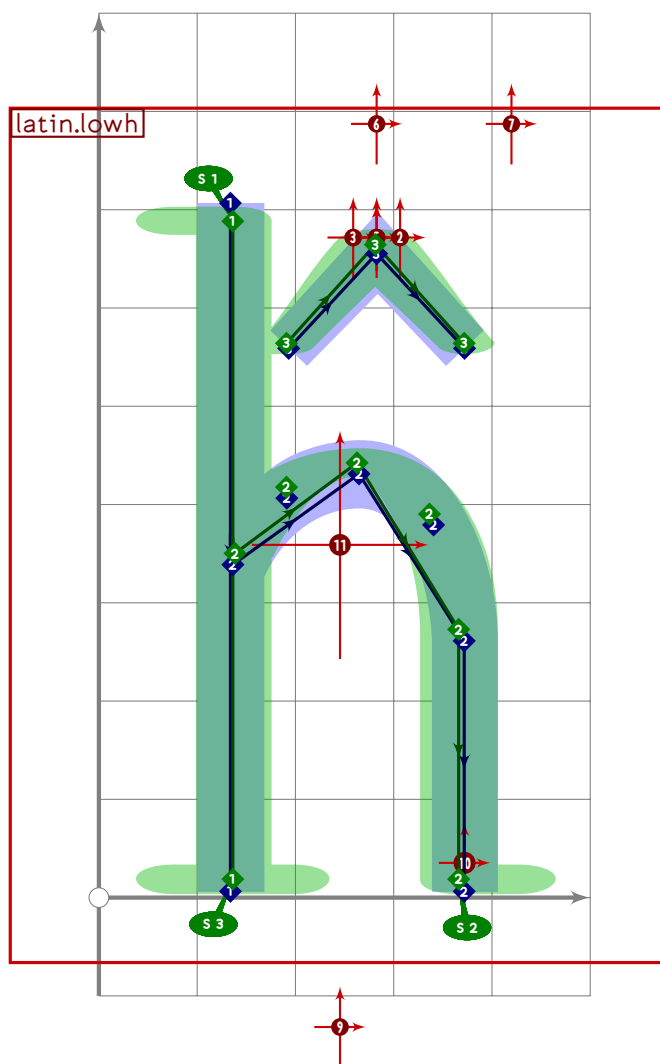
```

538 % g with comma upside-down above
539 begintsglyph("uni0123";35);
540 tsu_accent.apply(latin.lowg)(tsu_accent.caron_comma);
541 tsu_render;
542 endtsuglyph;
543

```

U+0125
tsuku.hcircumflex

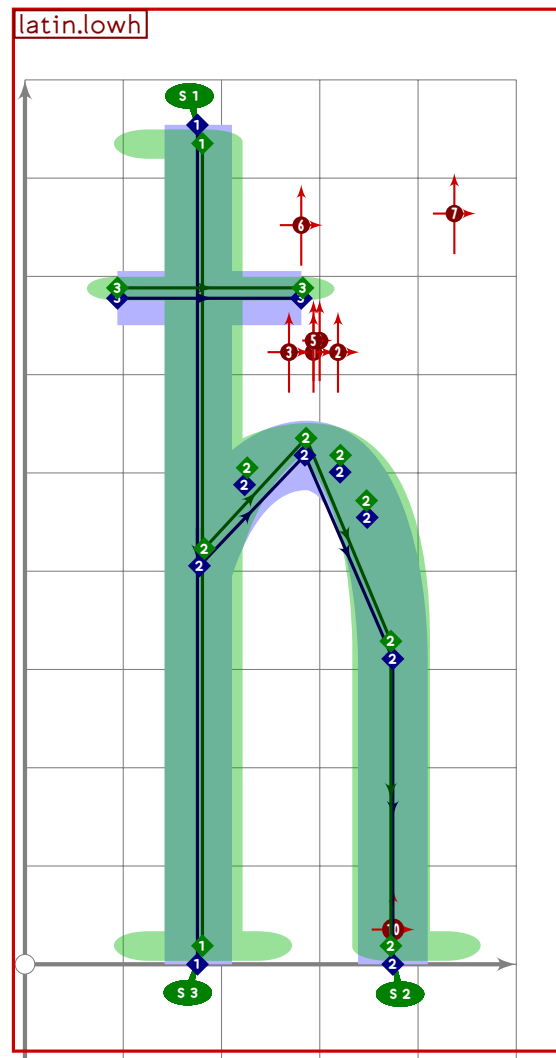
01



```

544 % h with circumflex
545 begintsuglyph("hcircumflex";37);
546   tsu_accent.apply(tsu_accent.capital(latin.lowh))(tsu_accent.circumflex);
547   tsu_render;
548 endtsuglyph;
549

```



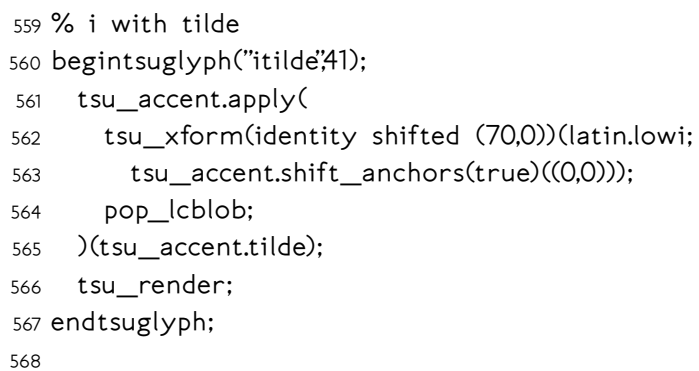
01

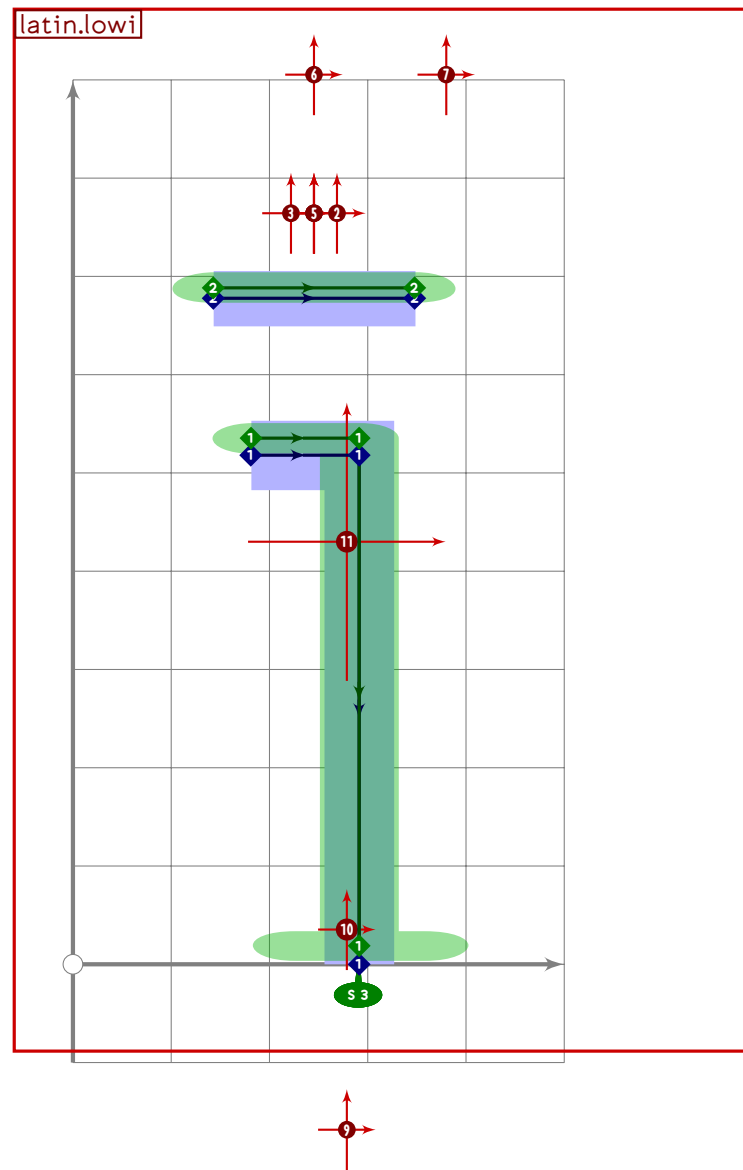
```

550 % h with bar
551 begint Suglyph("hbar";39);
552   latin.lowh;
553   push_stroke((220,vmetric(0.82))-(520,vmetric(0.82)),
554     (1.6,1.6)-(1.6,1.6));
555   set_bosize(0,80);
556   tsu_render;
557 endtsuglyph;
558

```

01





01

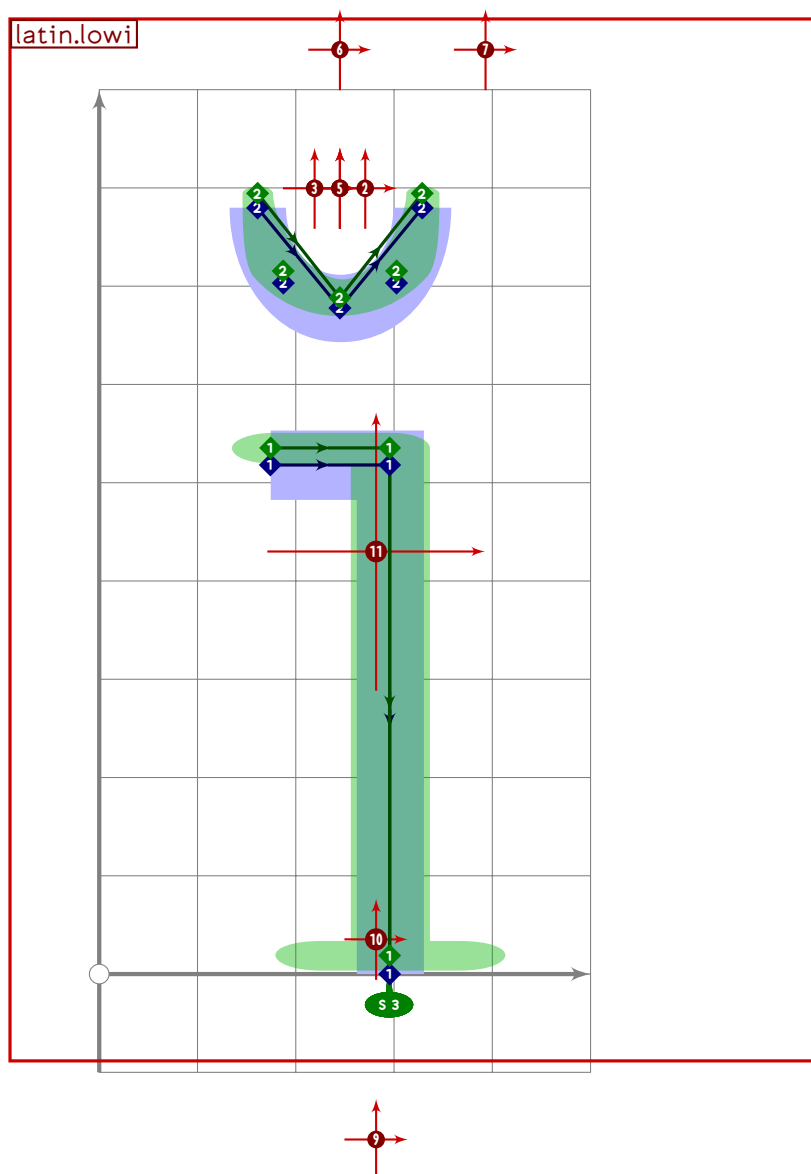
```

569 % i with macron
570 begintsuglyph("imacron";43);
571   tsu_accent.apply(
572     tsu_xform(identity shifted (70,0))(latin.lowi;
573       tsu_accent.shift_anchors(true)((0,0)));
574     pop_lcblob;
575   )(tsu_accent.macron);
576   tsu_render;
577 endtsuglyph;
578

```

U+012D
tsuku.ibreve

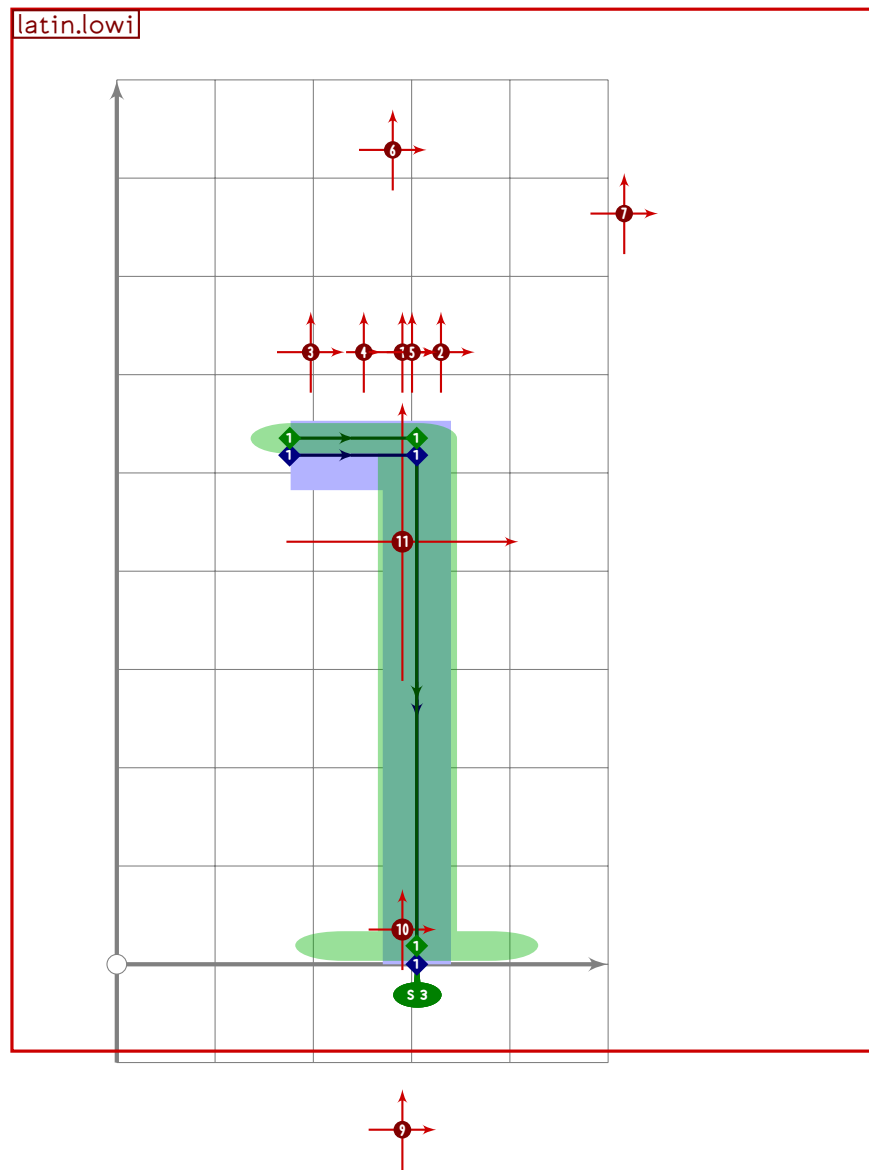
01



```

579 % i with breve
580 beginsuglyph("ibreve";45);
581   tsu_accent.apply(
582     tsu_xform(identity shifted (70,0))(latin.lowi;
583       tsu_accent.shift_anchors(true)((0,0)));
584     pop_lcblob;
585   )(tsu_accent.breve);
586   tsu_render;
587 endtsuglyph;
588
589 % i with ogonek
590 beginsuglyph("iogonek";47);
591   latin.lowiogonek;
592   tsu_render;
593 endtsuglyph;
594
```

[see page 367]



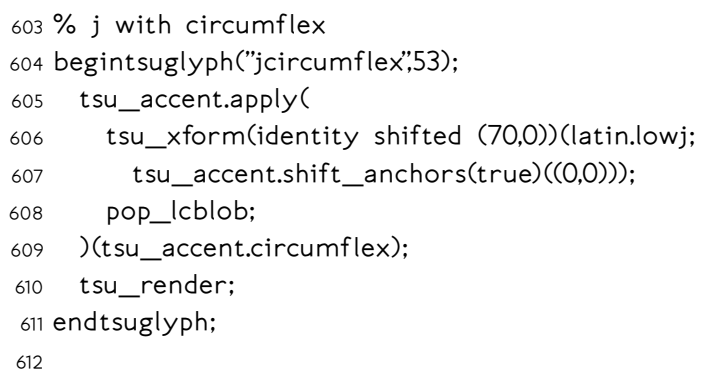
01

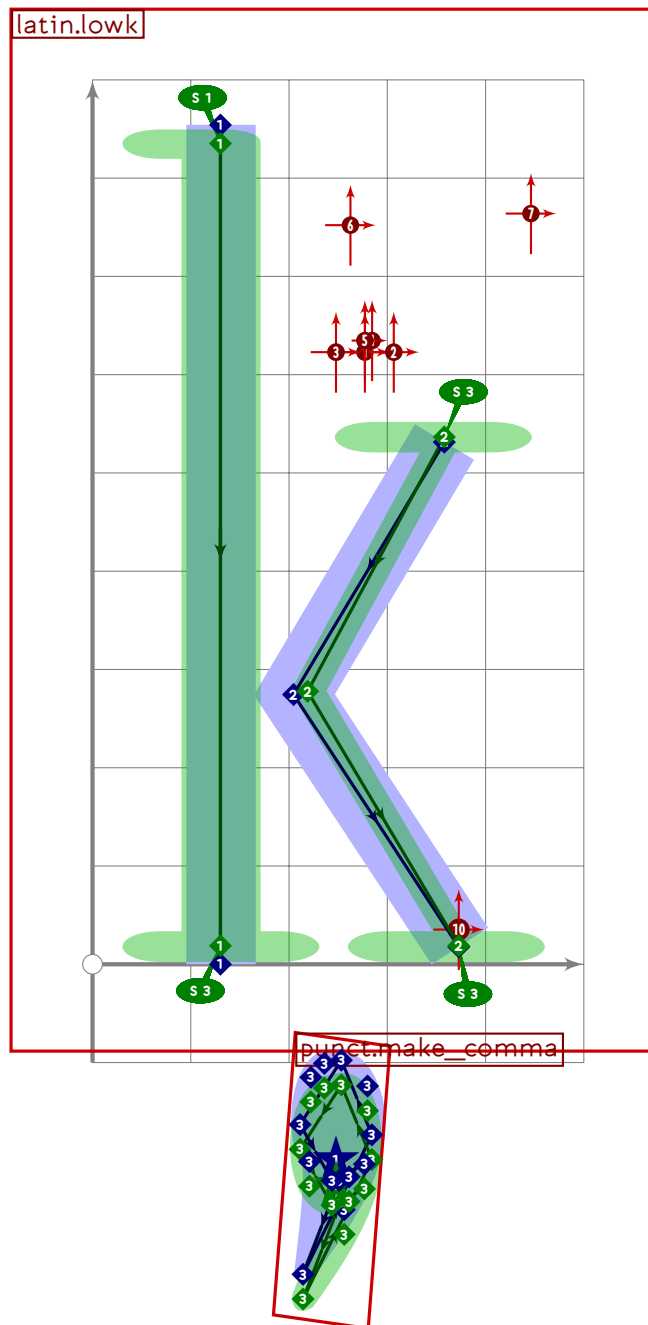
```

595 % i without dot
596 begint Suglyph("dotlessi";49);
597   tsu_xform(identity shifted (70,0))(latin.lowi;
598     tsu_accent.shift_anchors(true)((0,0)));
599   pop_lcblob;
600   tsu_render;
601 endtsuglyph;
602

```

01

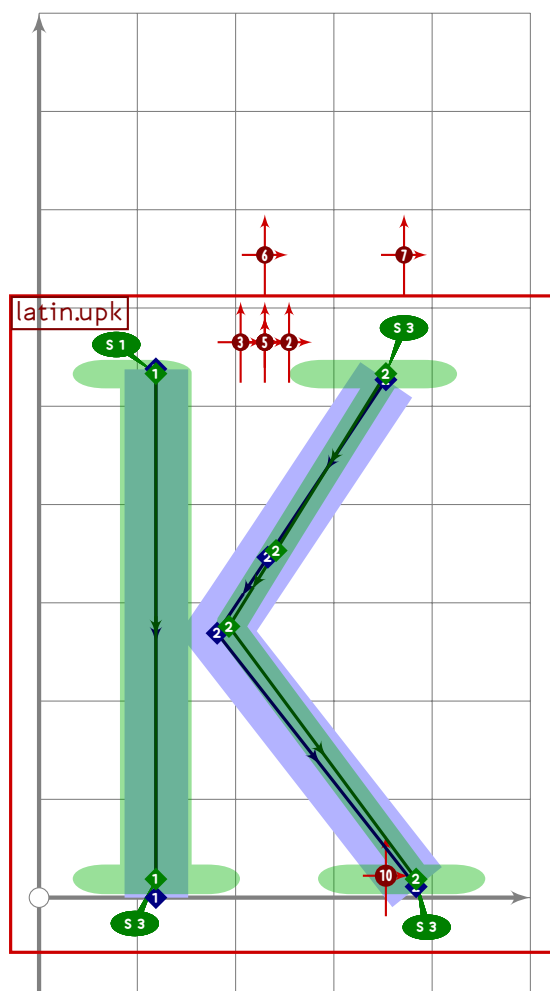




```

613 % k with comma below
614 begint Suglyph("uni0137";55);
615   tsu_accent.apply(latin.lowk)(tsu_accent.commabelow);
616   tsu_render;
617 endtsuglyph;
618

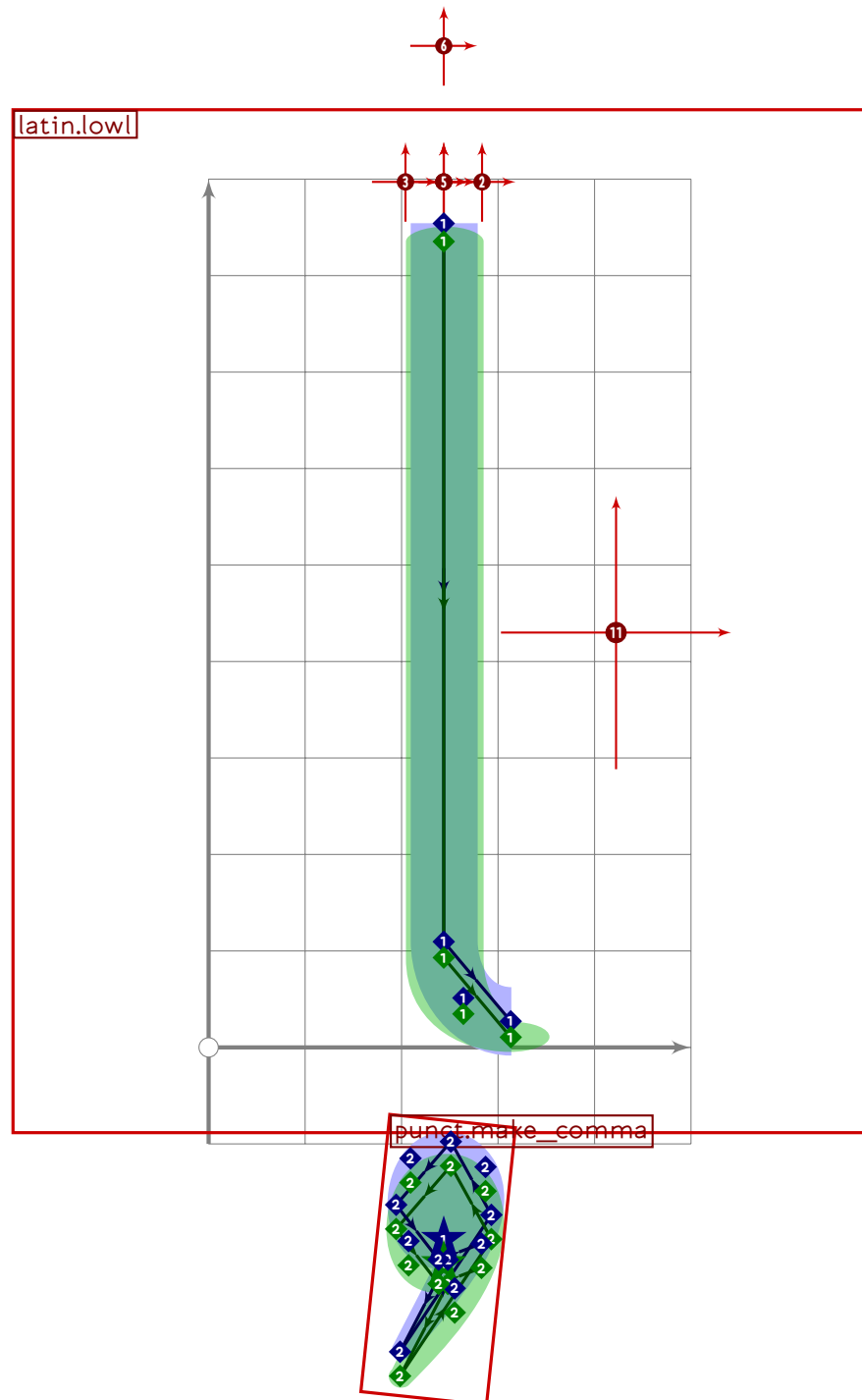
```



```

619 % Greenlandic k, which I'm interpreting as a squashed K
620 begintsuglyph("kgreenlandic",56);
621   tsu_xform(identity shifted (-500,latin_wide_low_v) xyscaled (0.92,0.63)
622     shifted (500,latin_wide_low_v))(latin.upk);
623   tsu_render;
624 endtsuglyph;
625

```



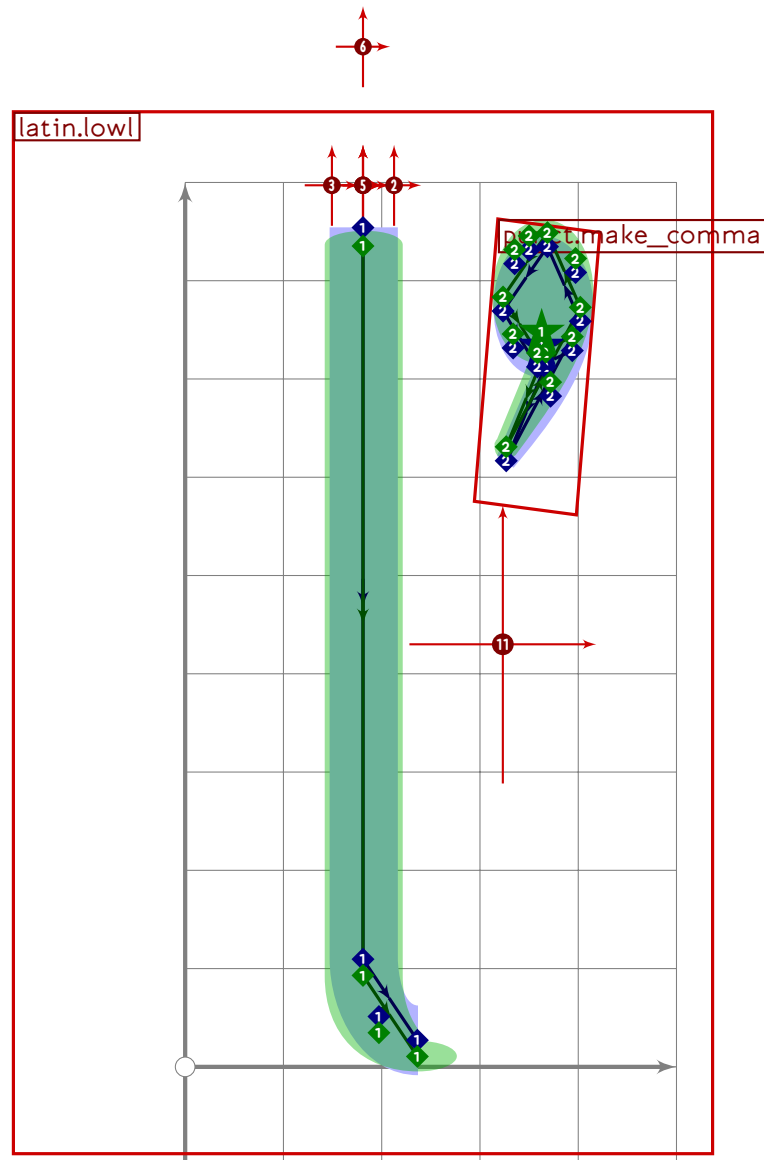
```

626 % l with comma below
627 beginsuglyph("uni013C",60);
628   tsu_accent.apply(latin.lowl)(tsu_accent.commabelow);
629   tsu_render;
630 endtsuglyph;
631

```



1366



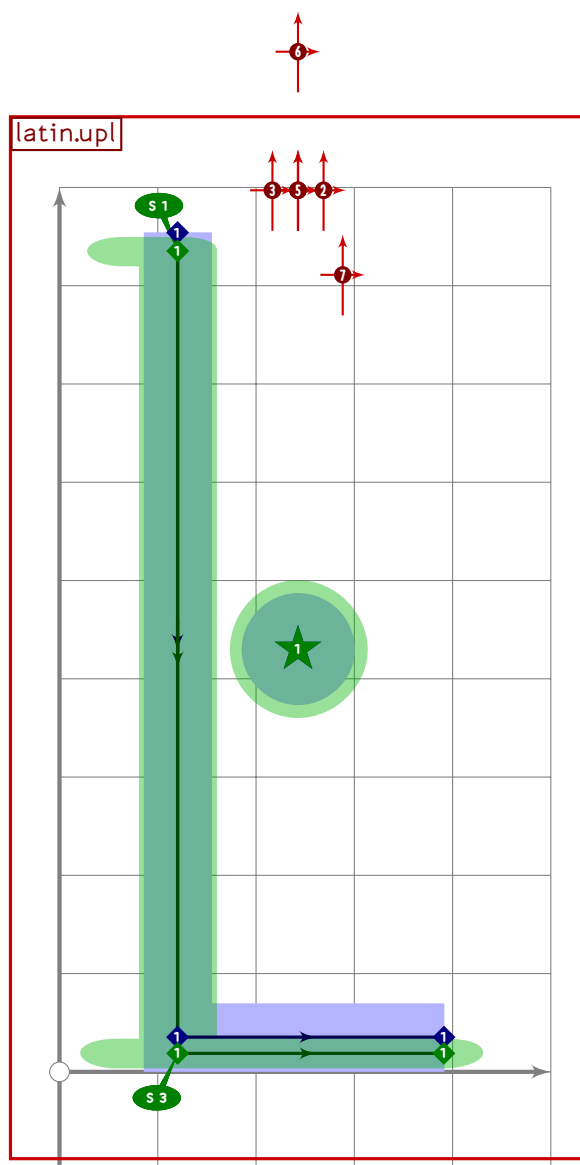
```

638 % l with apostrophe caron
639 begintsuglyph("lcaron";62);
640 tsu_accent.apply(latin.lowl)(tsu_accent.caron_comma);
641 tsu_render;
642 endtsuglyph;
643

```

U+013F
tsuku.Ldot

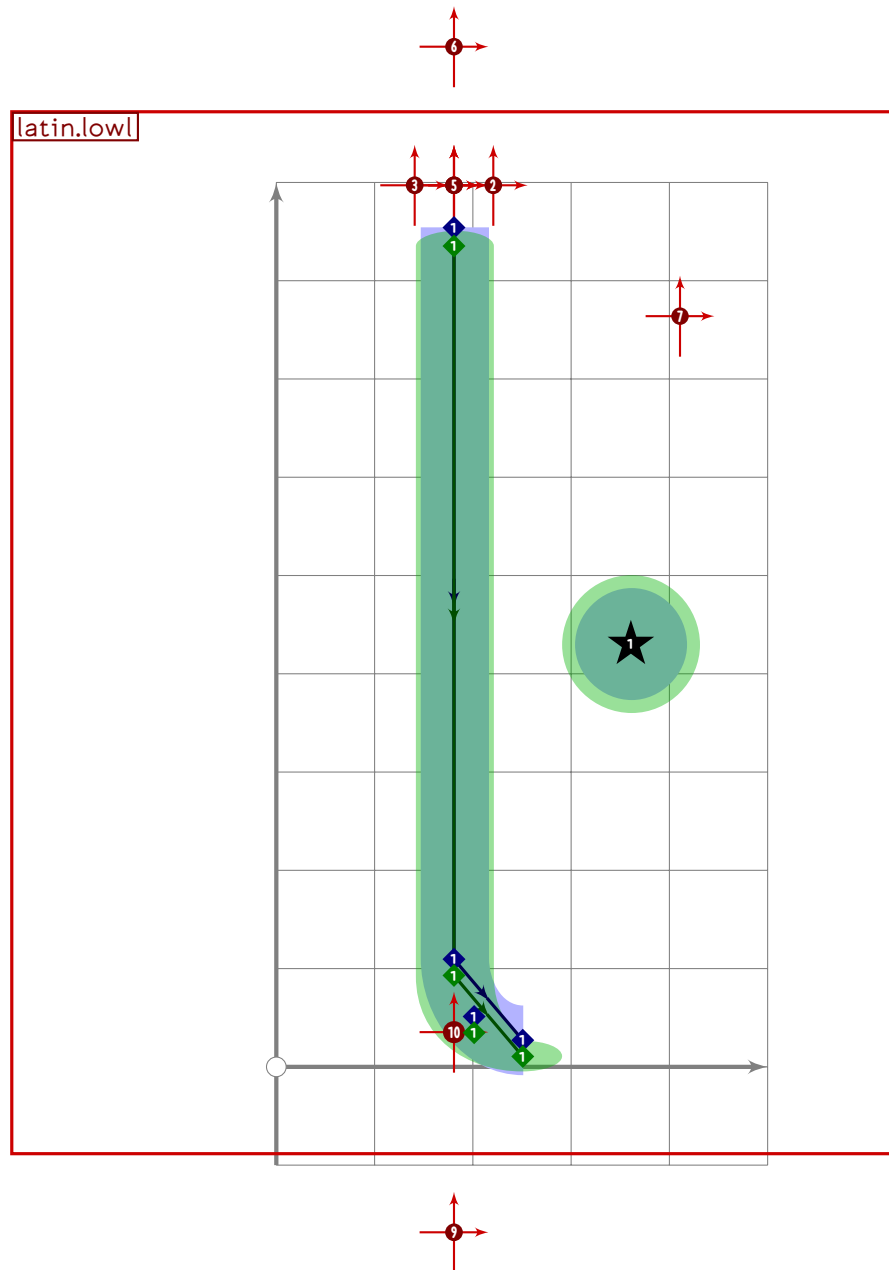
01



```

644 % L with dot
645 begint Suglyph("Ldot",63);
646 tsu__accent.apply(latin.upl)(tsu__accent.dotcentred);
647 tsu__render;
648 endtsuglyph;
649

```

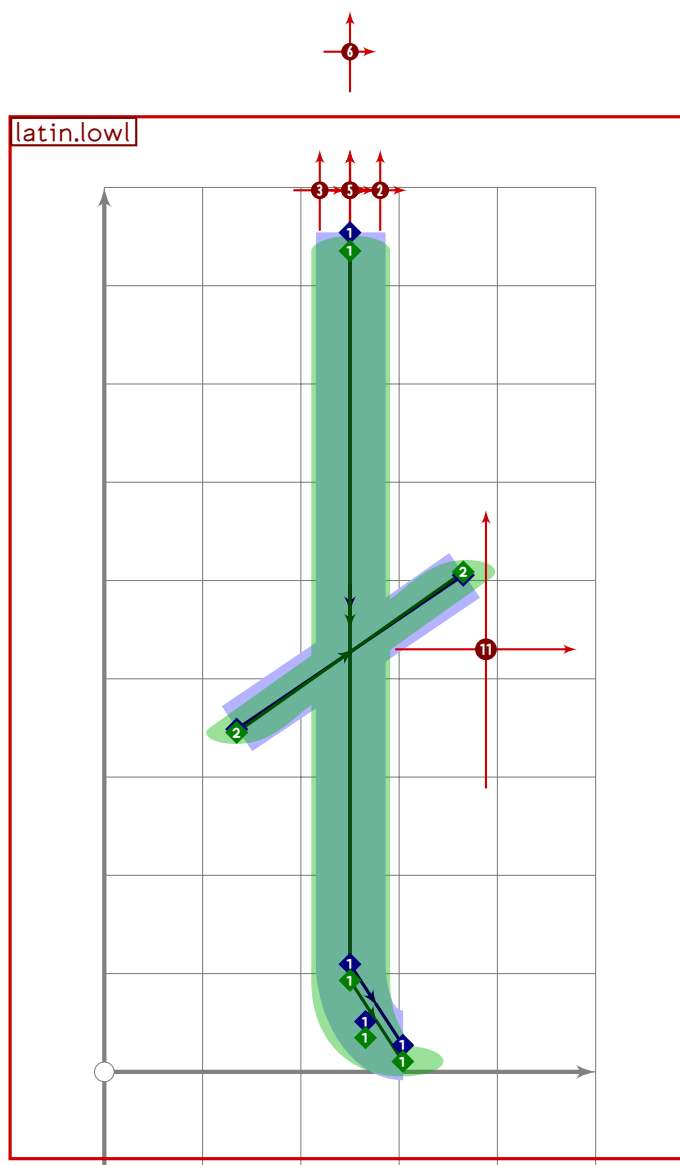



01

```

650 % l with dot
651 begintsuglyph("ldot",64);
652   tsu_accent.apply(tsu_xform(identity shifted (-120,0))
653     (latin.lowl;
654       tsu_accent.shift_anchors(true)((0,0))))(tsu_accent.dotcentred);
655   tsu_render;
656 endtsuglyph;
657

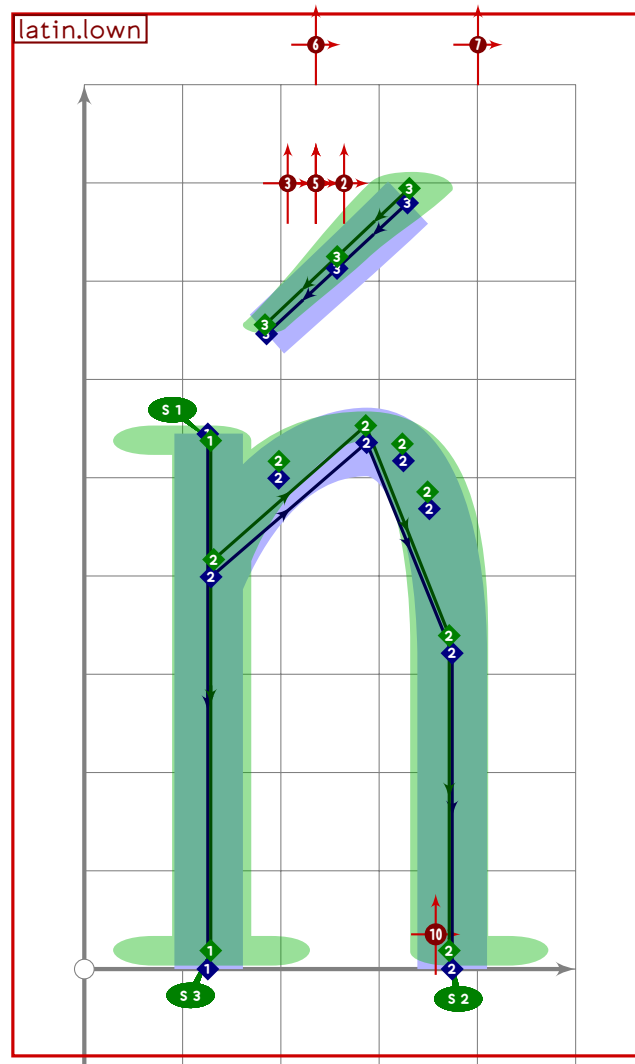
```



```

658 % l with slash
659 begintsuglyph("lslash",66);
660 latin.lowl;
661 push_stroke((350,vmetric(0.40))-(650,vmetric(0.60)),
662   (1.6,1.6)-(1.6,1.6));
663 set_bosize(0,80);
664 tsu_render;
665 endtsuglyph;
666

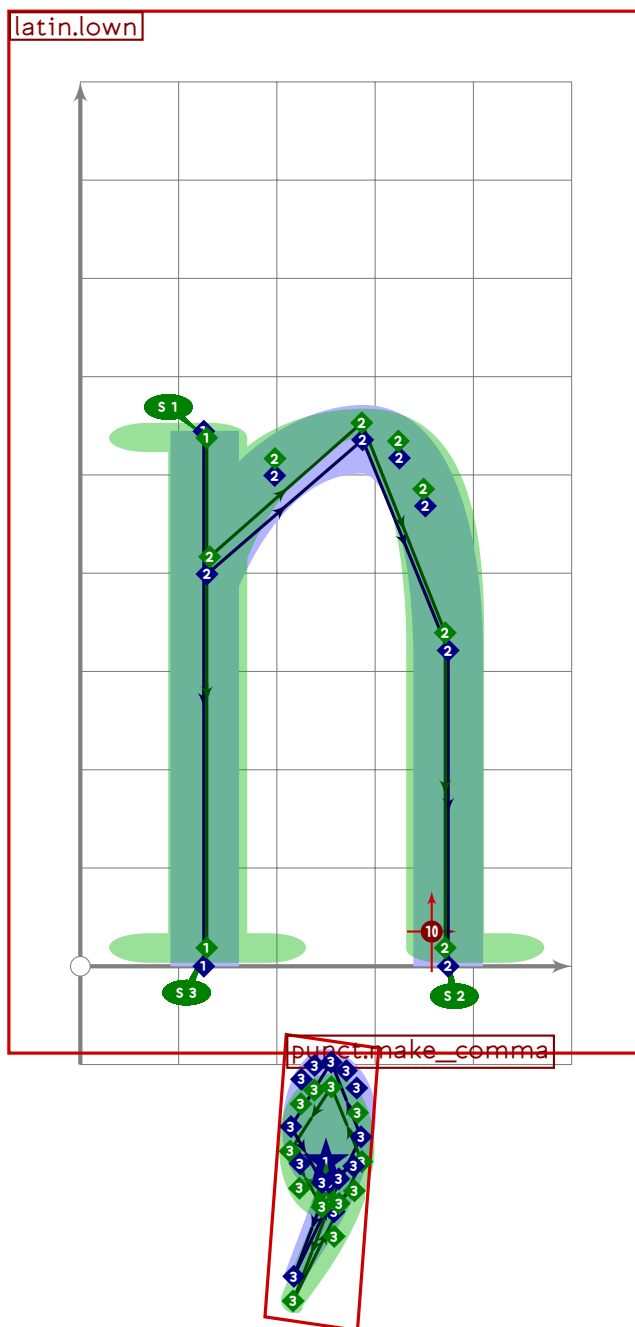
```



```

667 % n with acute
668 begintsuglyph("nacute",68);
669 tsu_accent.apply(latin.lown)(tsu_accent.acute);
670 tsu_render;
671 endtsuglyph;
672

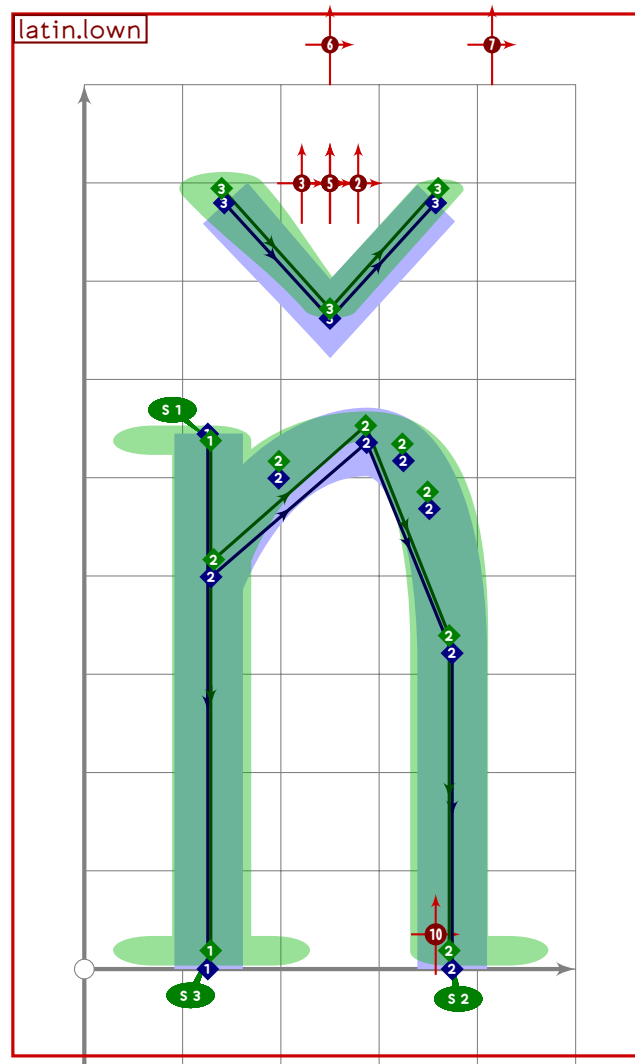
```



```

673 % n with comma below
674 begint Suglyph("uni0146";70);
675   tsu_accent.apply(latin.lown)(tsu_accent.commabelow);
676   tsu_render;
677 endtsuglyph;
678

```

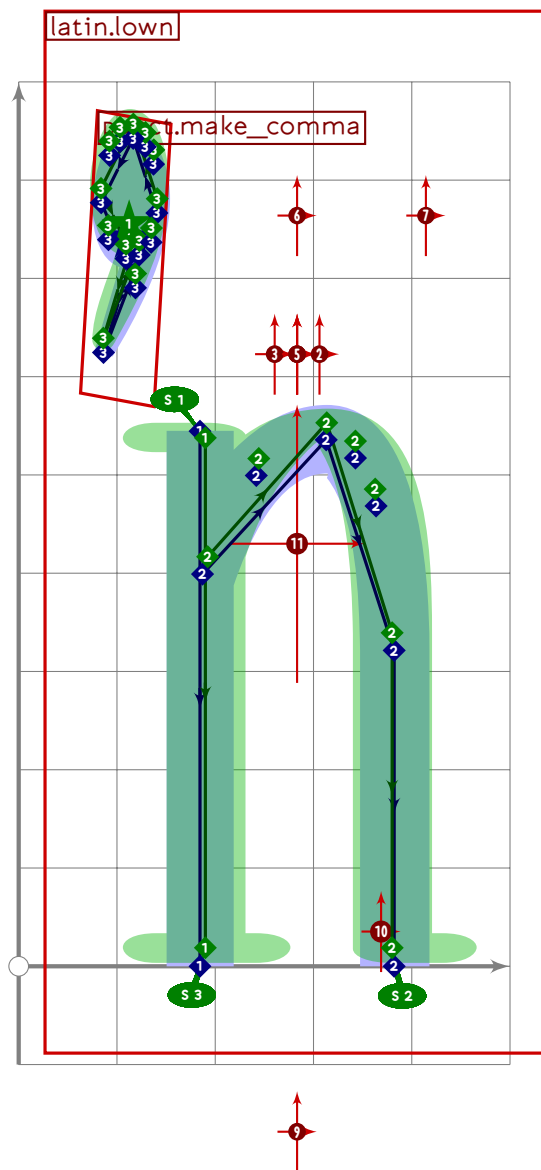


01

```

679 % n with caron
680 begintsuglyph("ncaron";72);
681   tsu_accent.apply(latin.lown)(tsu_accent.caron);
682   tsu_render;
683 endsuglyph;
684

```

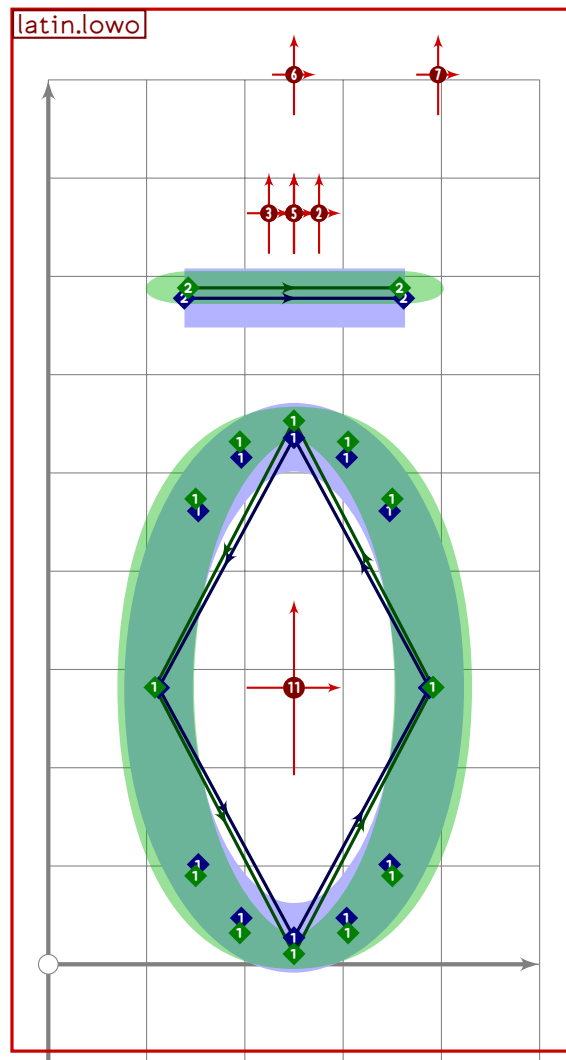


```

685 % n with apostrophe before
686 begintsuglyph("napostrophe";73);
687 tsu_xform(identity shifted (30,0))(latin.lown;
688     tsu_accent.shift_anchors(true)((0,0)));
689 punct.make_comma((230,vmetric(0.94)),0);
690 tsu_render;
691 endtsuglyph;
692
693 % lowercase eng
694 begintsuglyph("eng";75);
695 latin.loweng;
696 tsu_render;
697 endtsuglyph;
698

```

[see page 326]



01

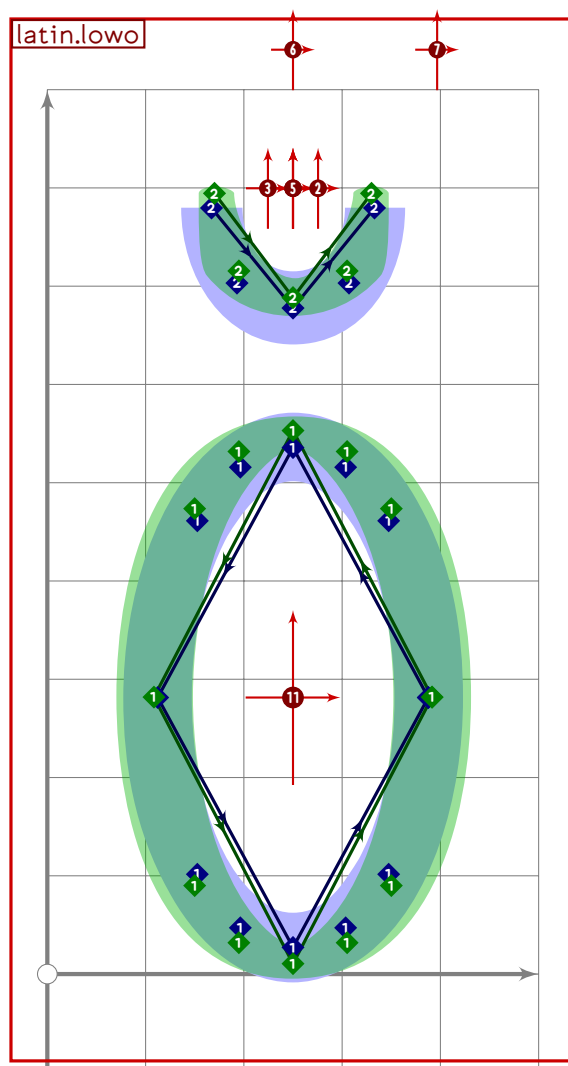
```

699 % o with macron
700 begintsuglyph('omacron';77);
701   tsu_accent.apply(latin.lowo)(tsu_accent.macron);
702   tsu_render;
703 endtsuglyph;
704

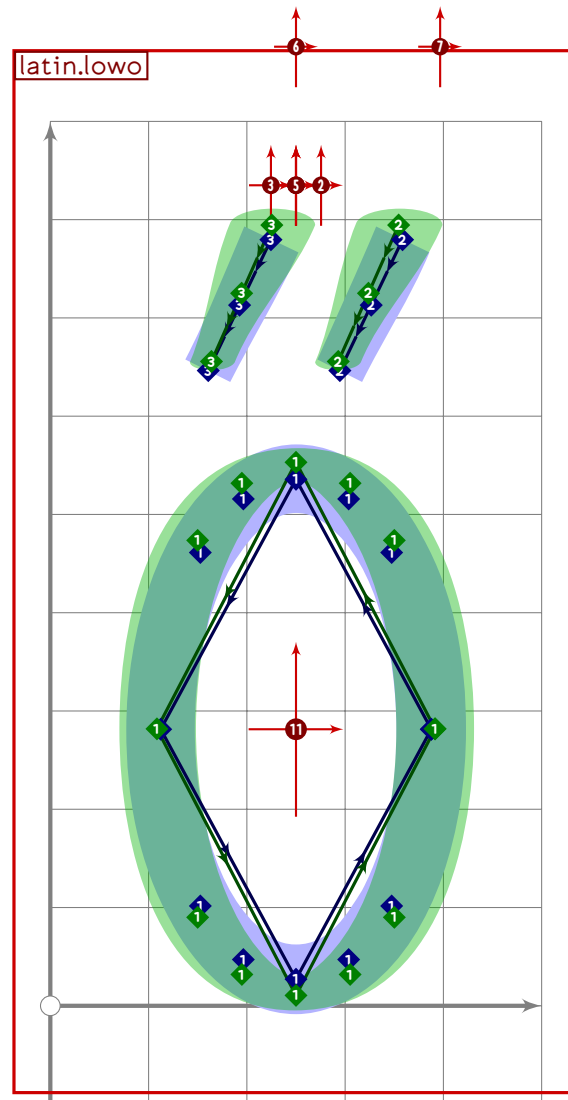
```

U+014F
tsuku.obreve

01



```
705 % o with breve
706 begintsglyph("obreve",79);
707   tsu_accent.apply(latin.lowo)(tsu_accent.breve);
708   tsu_render;
709 endtsuglyph;
710
```

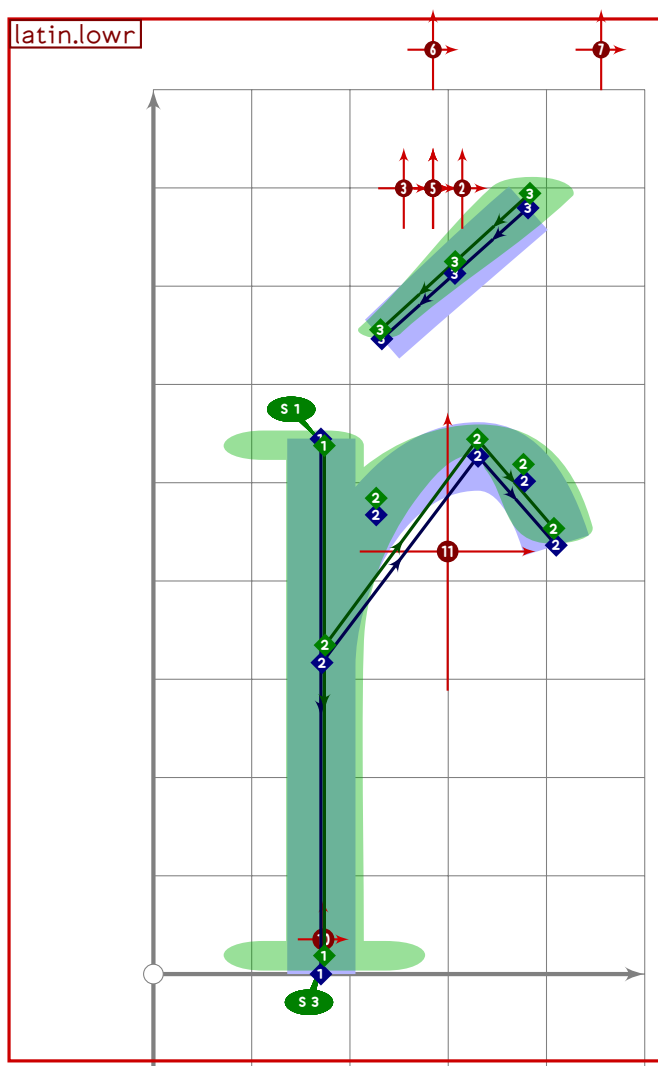
```

711 % o with hungarian umlaut
712 begint Suglyph('ohungarumlaut';81);
713   tsu_accent.apply(latin.lowo)(tsu_accent.hungarian_umlaut);
714   tsu_render;
715 endtsuglyph;
716

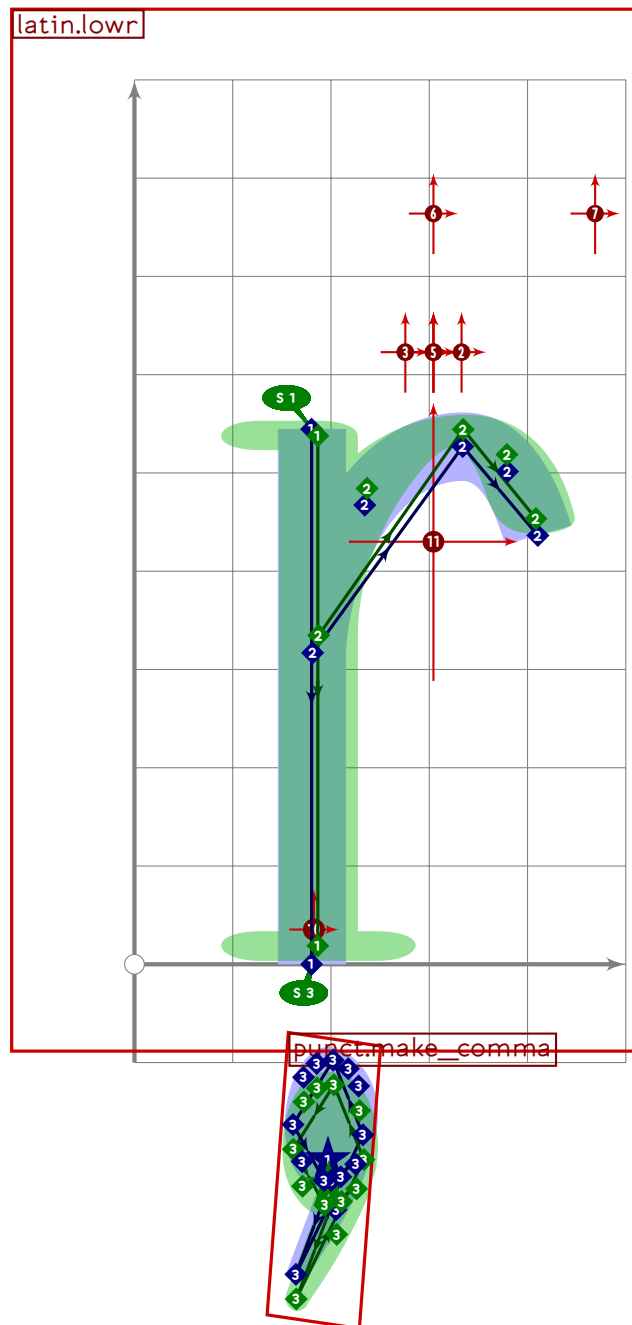
```

U+0155
tsuku.racute

01



```
717 % r with acute
718 begint Suglyph("racute";85);
719   tsu_accent.apply(latin.lowr)(tsu_accent.acute);
720   tsu_render;
721 endtsuglyph;
722
```



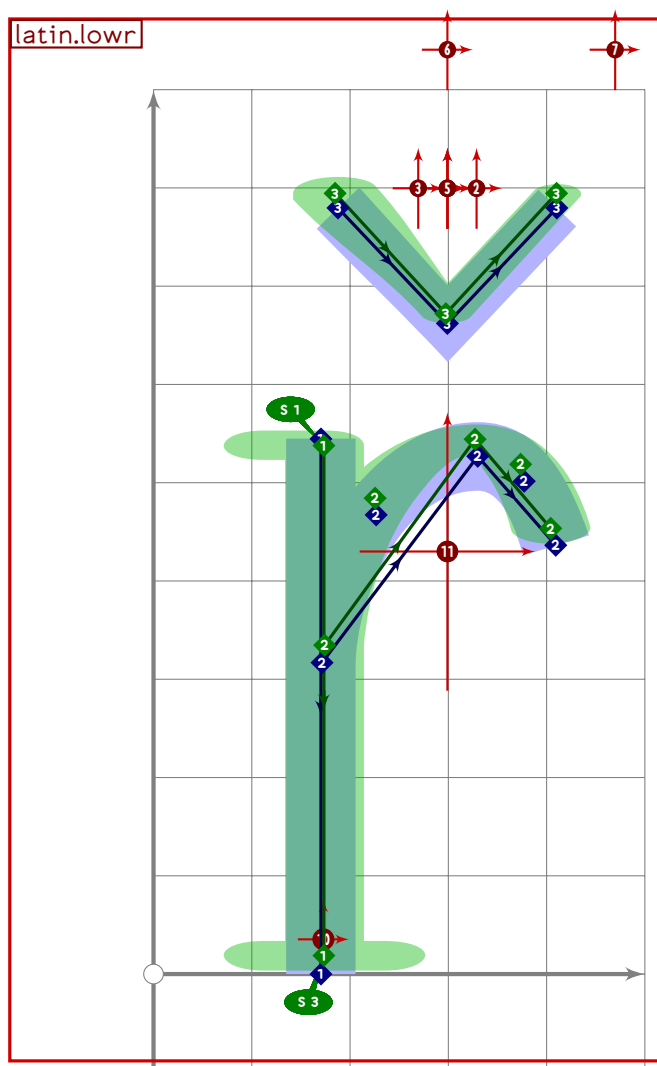
```

723 % r with comma below
724 begint Suglyph("uni0157";87);
725   tsu_accent.apply(latin.lowr)(tsu_accent.commabelow);
726   tsu_render;
727 endtsuglyph;
728

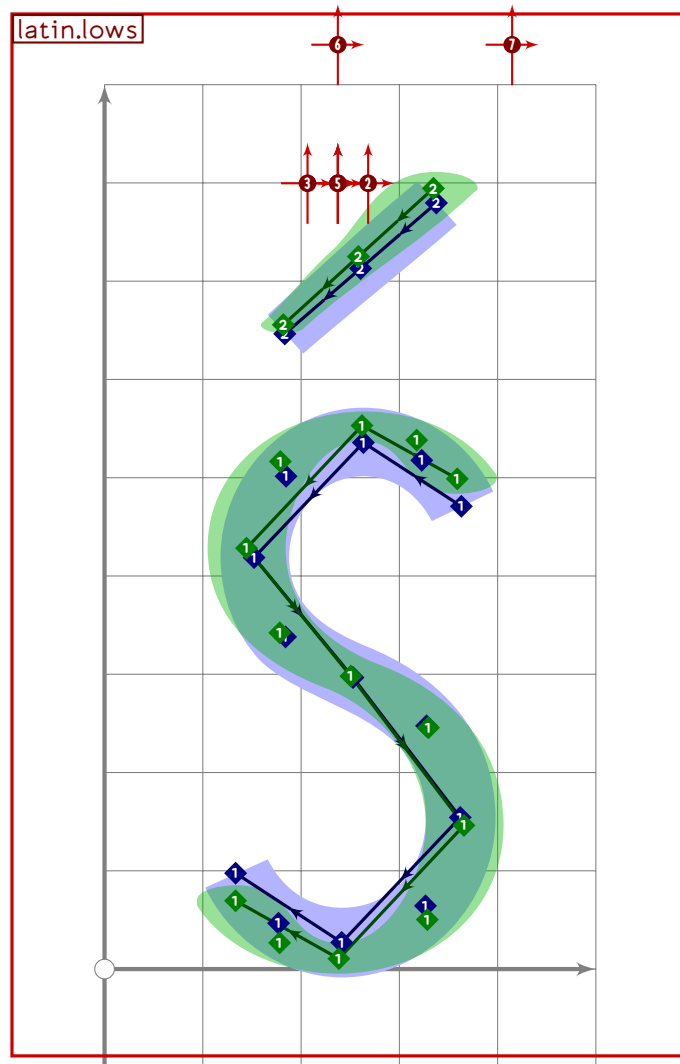
```

U+0159
tsuku.rcaron

01



```
729 % r with caron
730 begintsuglyph("rcaron";89);
731   tsu_accent.apply(latin.lowr)(tsu_accent.caron);
732   tsu_render;
733 endtsuglyph;
734
```

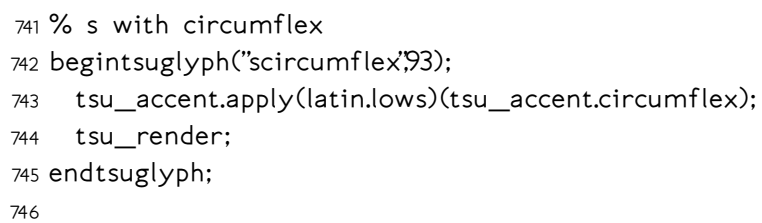


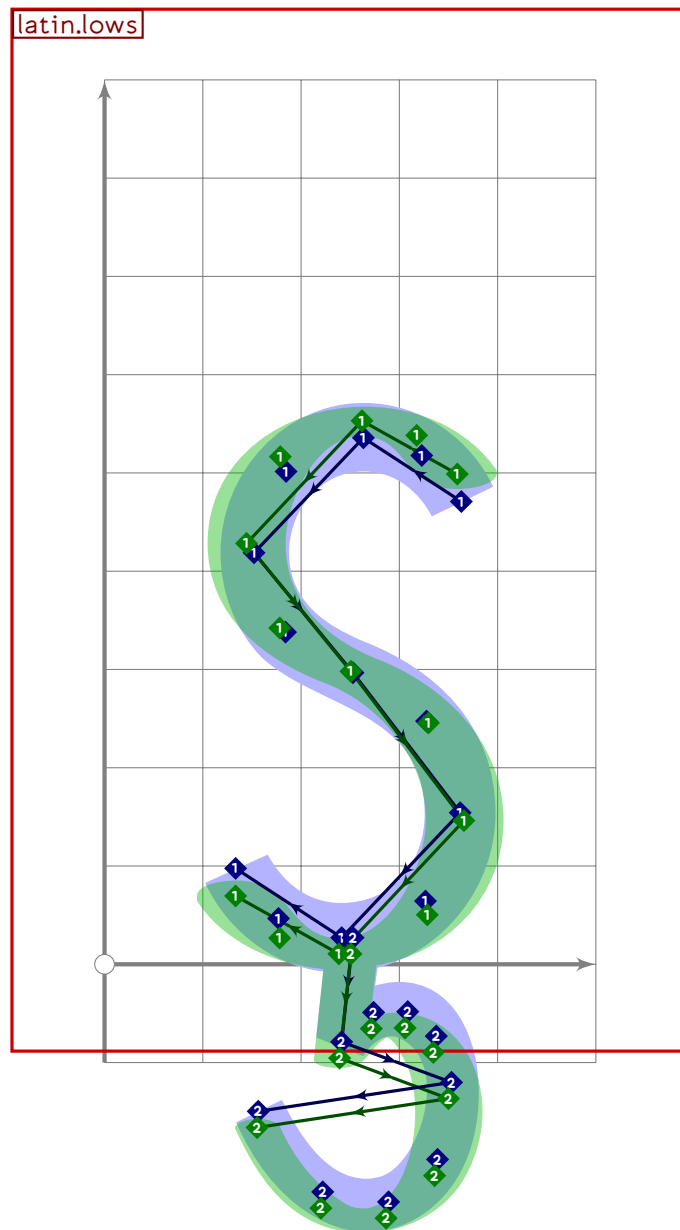
```

735 % s with acute
736 begint Suglyph("sacute",91);
737   tsu_accent.apply(latin.lows)(tsu_accent.acute);
738   tsu_render;
739 endtsuglyph;
740

```

01





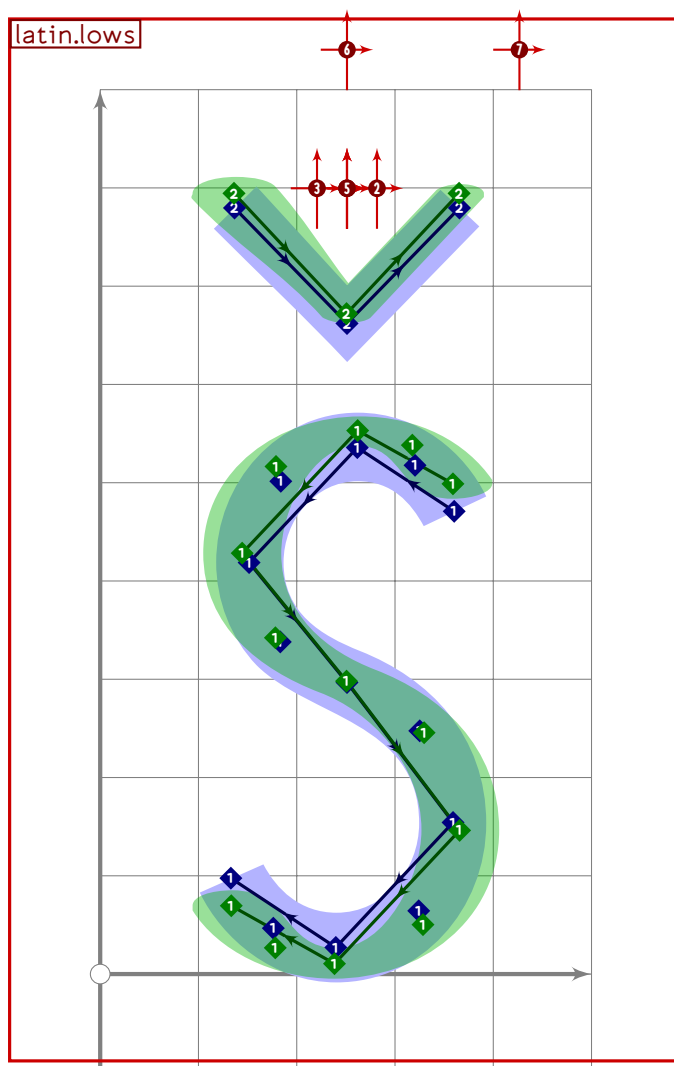
```

747 % s with cedilla
748 begintsuglyph('scedilla';95);
749   tsu_accent.apply(latin.lows)(tsu_accent.cedilla);
750   tsu_render;
751 endtsuglyph;
752

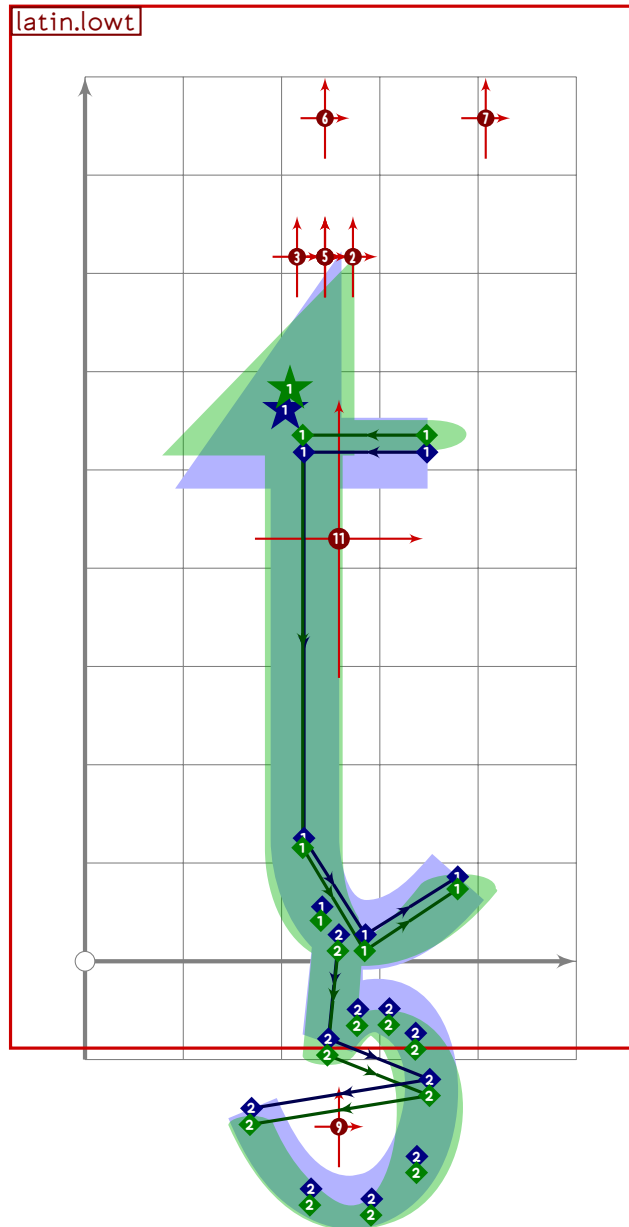
```

U+0161
tsuku.scaron

01



```
753 % s with caron
754 begint Suglyph("scaron",97);
755   tsu_accent.apply(latin.lows)(tsu_accent.caron);
756   tsu_render;
757 endtsuglyph;
758
```

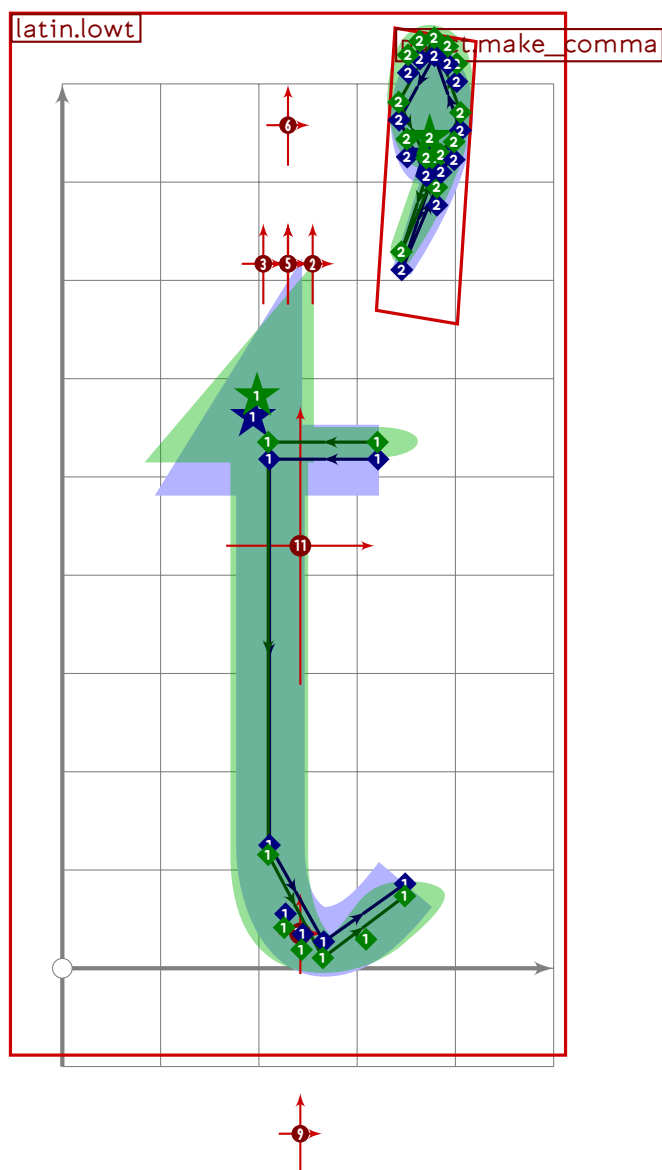
```

759 % t with cedilla [sic]
760 begint Suglyph('uni0163';99);
761   tsu_accent.apply(latin.lowt)(tsu_accent.cedilla);
762   tsu_render;
763 endtsuglyph;
764

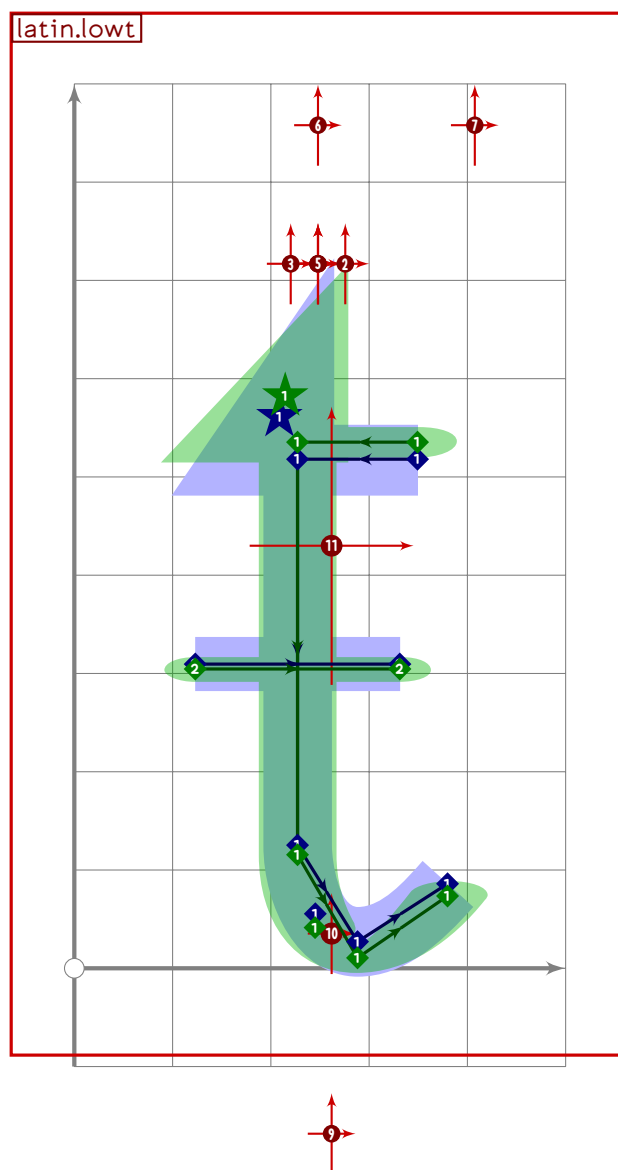
```

U+0165
tsuku.tcaron

01



```
765 % t with apostrophe caron
766 begintsuglyph("tcaron",101);
767   tsu_accent.apply(latin.lowt)(tsu_accent.caron_comma);
768   tsu_render;
769 endtsuglyph;
770
```



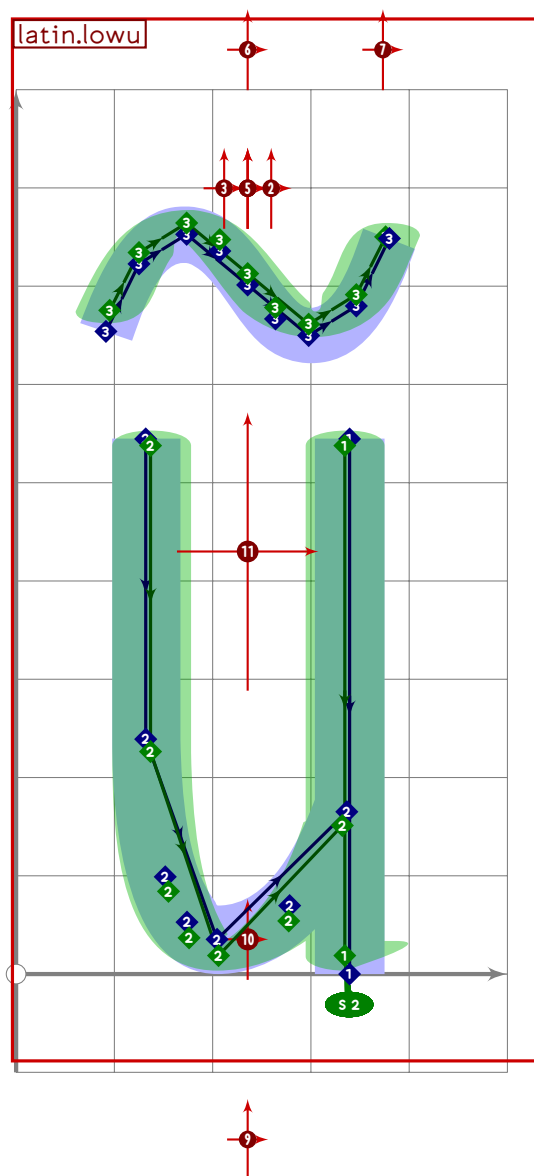
```

771 % t with bar
772 beginsuglyph("tbar",103);
773 latin.lowt;
774 push_stroke((320,ymetric(0.35))-(620,ymetric(0.35)),
775   (1.6,1.6)-(1.6,1.6));
776 set_bosize(0,80);
777 tsu_render;
778 endsuglyph;
779

```

U+0169
tsuku.utilde

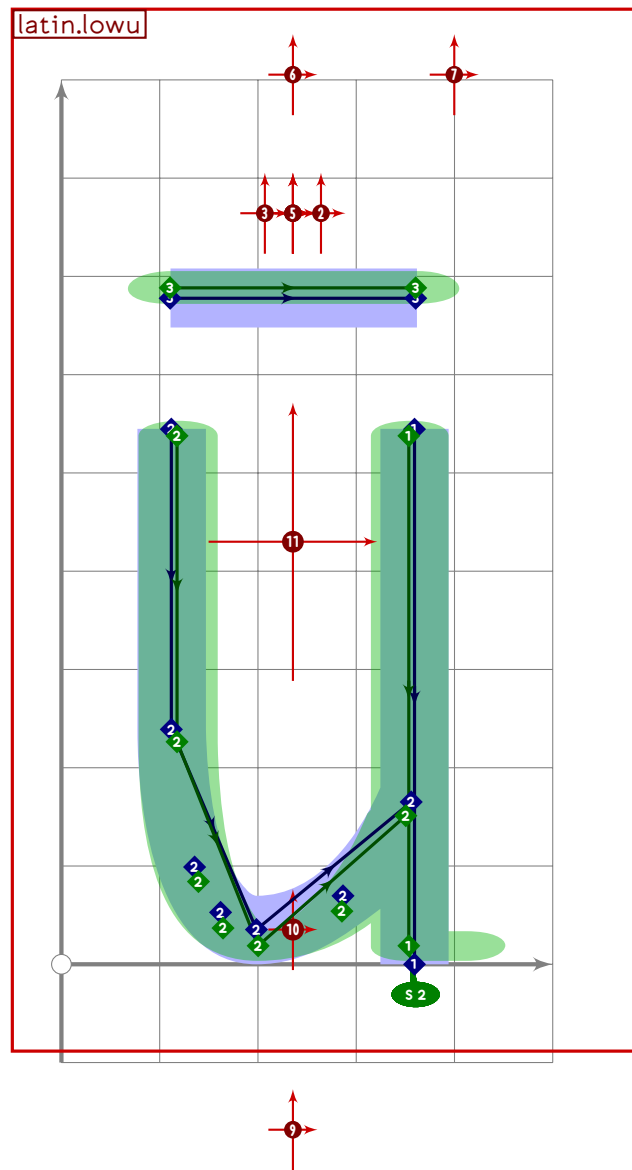
01



```

780 % u with tilde
781 begint Suglyph('utilde';105);
782   tsu_accent.apply(latin.lowu)(tsu_accent.tilde);
783   tsu_render;
784 endtsuglyph;
785

```



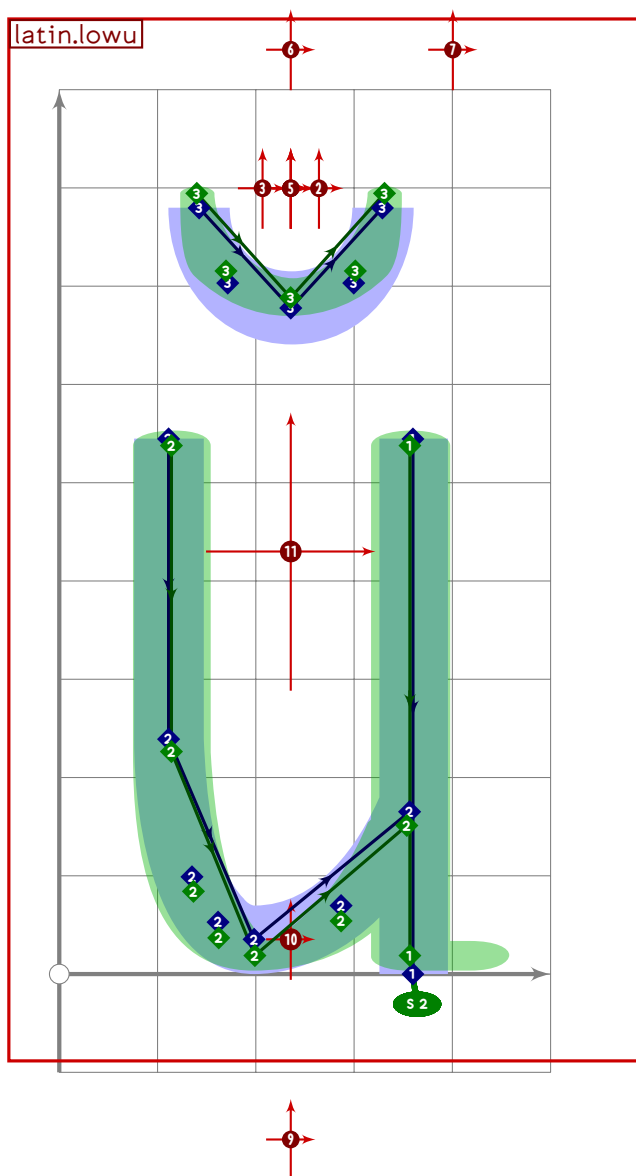
```

786 % u with macron
787 begintsuglyph("umacron",107);
788   tsu_accent.apply(latin.lowu)(tsu_accent.macron);
789   tsu_render;
790 endtsuglyph;
791

```

U+016D
tsuku.ubreve

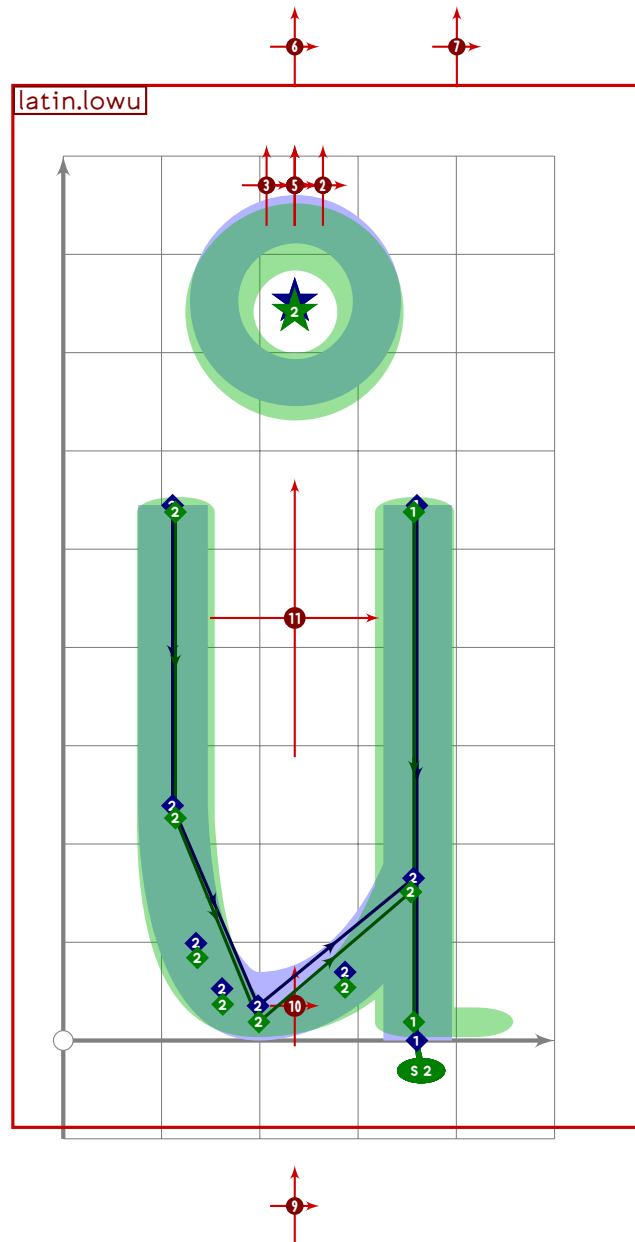
01



```

792 % u with breve
793 begint Suglyph('ubreve';109);
794   tsu_accent.apply(latin.lowu)(tsu_accent.breve);
795   tsu_render;
796 endtsuglyph;
797

```

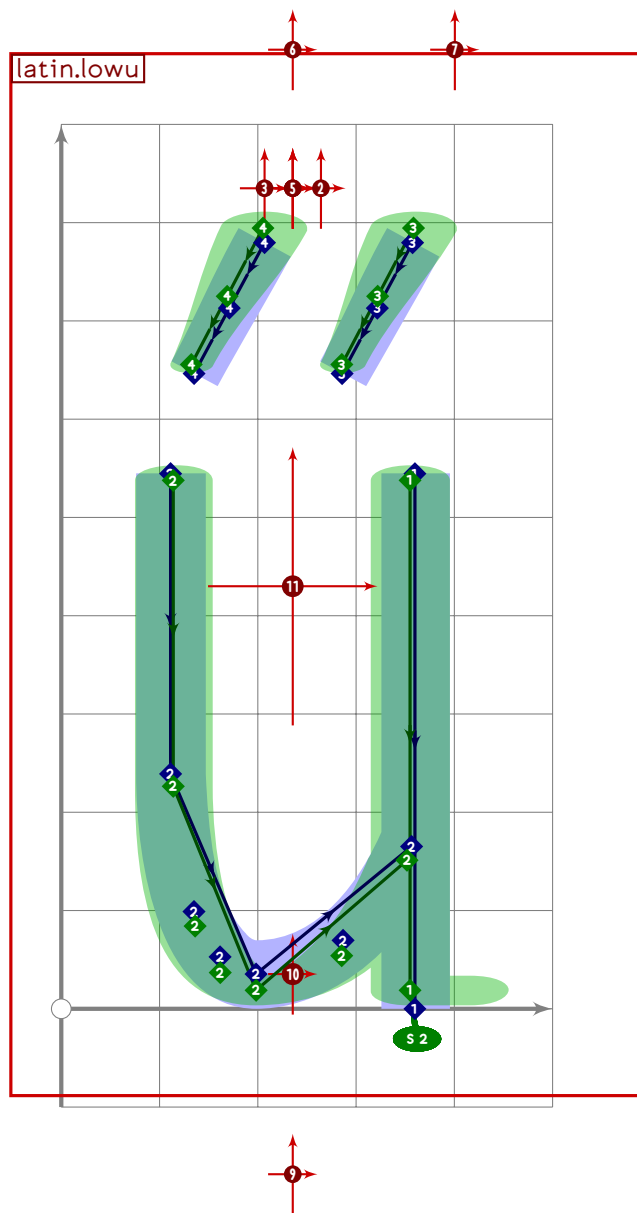


```

798 % u with ring above
799 begint Suglyph("uring",111);
800   tsu_accent.apply(latin.lowu)(tsu_accent.ringabove);
801   tsu_render;
802 endtsuglyph;
803

```

U+0171
tsuku.uhungarumlaut

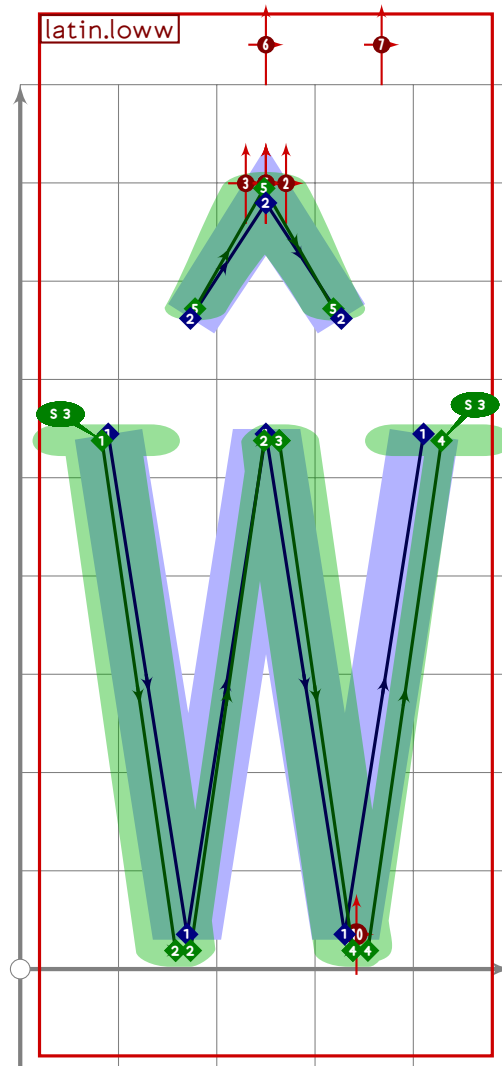


```

804 % u with Hungarian umlaut
805 begintsuglyph('uhungarumlaut';113);
806   tsu_accent.apply(latin.lowu)(tsu_accent.hungarian_umlaut);
807   tsu_render;
808 endtsuglyph;
809
810 % u with ogonek
811 begintsuglyph('uogonek';115);
812   latin.lowuogonek;
813   tsu_render;
814 endtsuglyph;
815

```

[see page 369]



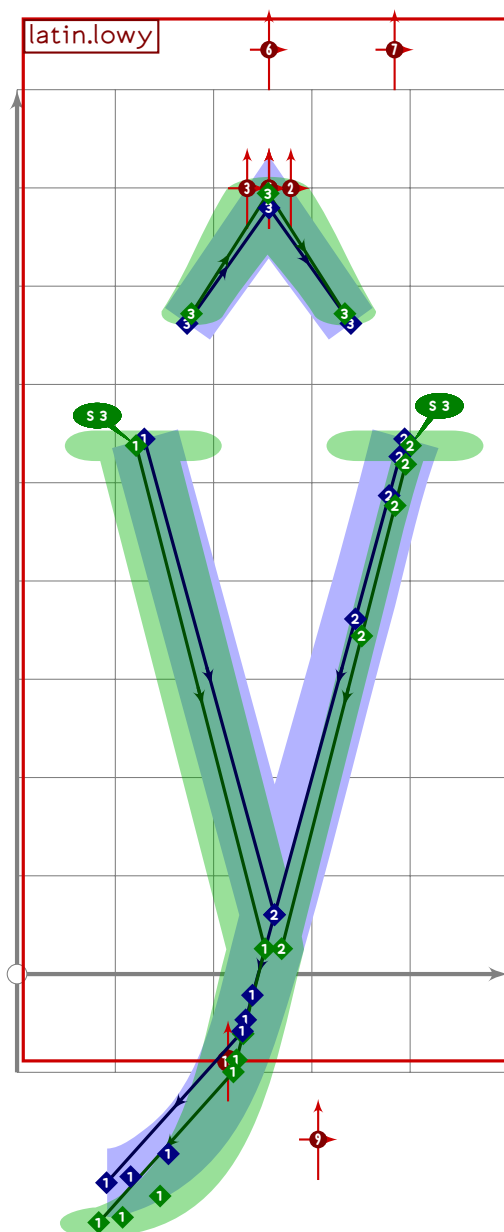
```

816 % w with circumflex
817 begint Suglyph("wcircumflex",117);
818   tsu_accent.apply(latin.loww)(tsu_accent.circumflex);
819   tsu_render;
820 endtsuglyph;
821

```

U+0177
tsuku.ycircumflex

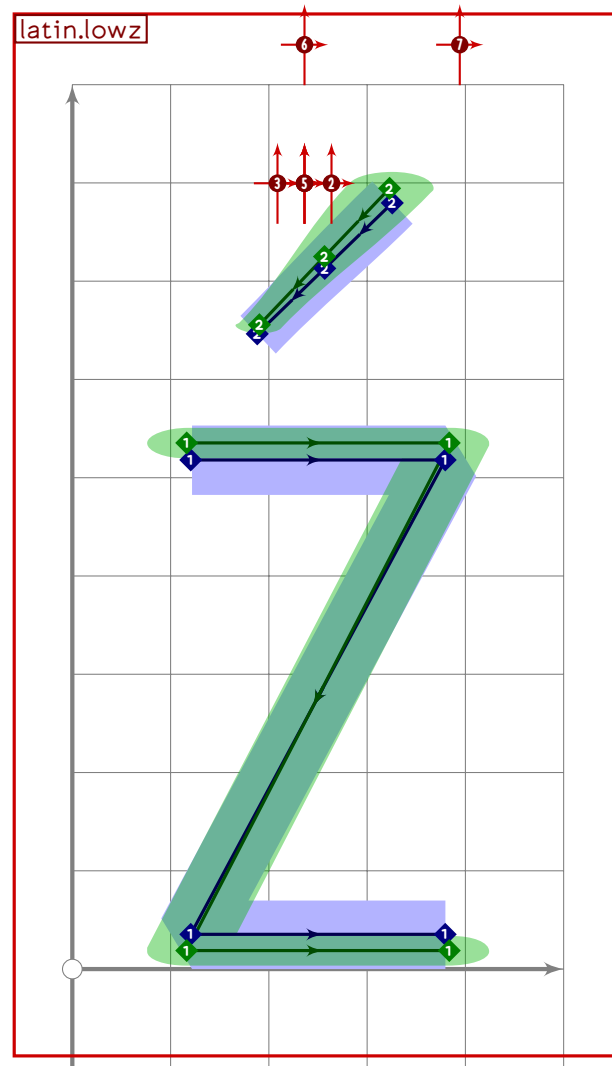
01



```

822 % y with circumflex
823 begintsuglyph("ycircumflex",119);
824 tsu_accent.apply(latin.lowy)(tsu_accent.circumflex);
825 tsu_render;
826 endtsuglyph;
827

```



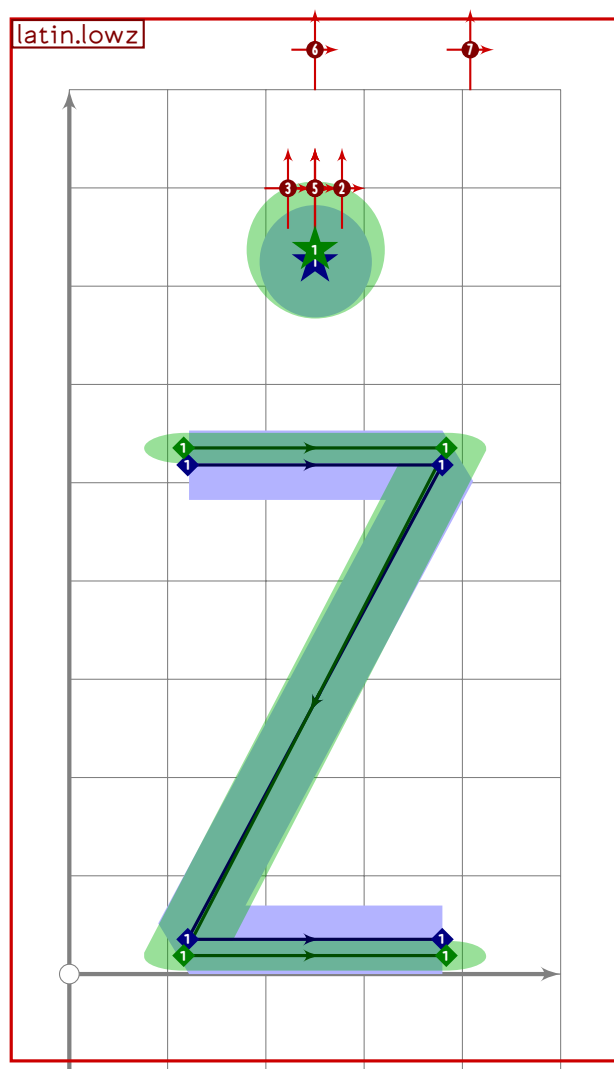
```

828 % z with acute
829 begint Suglyph("zacute",122);
830   tsu_accent.apply(latin.lowz)(tsu_accent.acute);
831   tsu_render;
832 endtsuglyph;
833

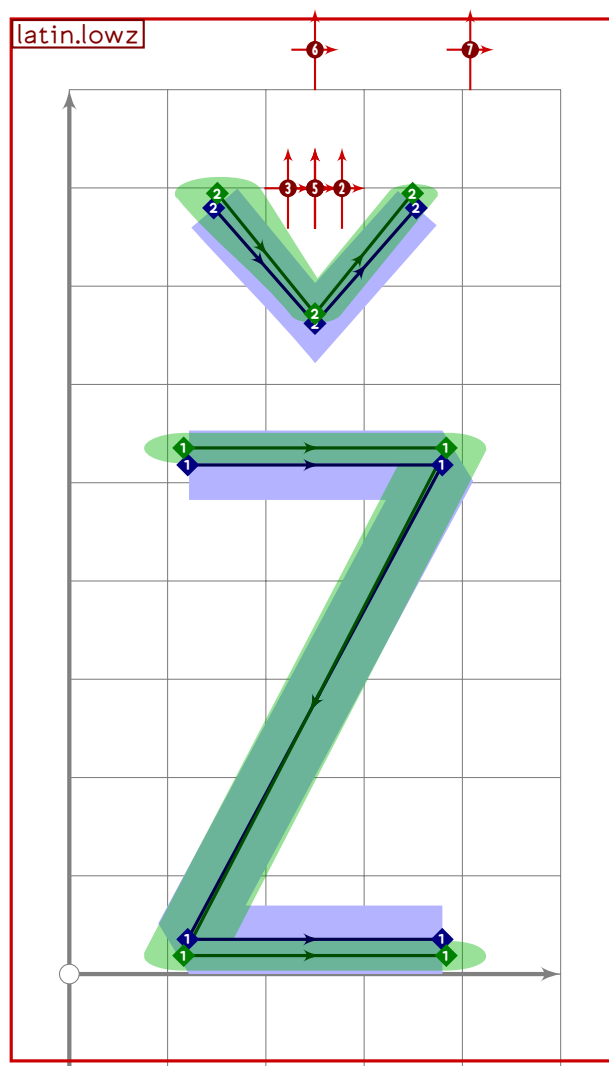
```

U+017C
tsuku.zdotaccent

01



```
834 % z with dot
835 begintsuglyph("zdotaccent",124);
836 tsu_accent.apply(latin.lowz)(tsu_accent.dotabove);
837 tsu_render;
838 endtsuglyph;
839
```



```

840 % z with caron
841 begintsuglyph("zcaron";126);
842   tsu_accent.apply(latin.lowz)(tsu_accent.caron);
843   tsu_render;
844 endtsuglyph;
845
846 % long s
847 begintsuglyph("longs";127);
848   latin.lowlongs;
849   tsu_render;
850 endtsuglyph;
851
852
853

```

[see page 335]

Latin Extended A Other

```

854 % LATIN EXTENDED A OTHER
855

```

```
856 tsu_accent.clear_default_anchors;
857
858 % Dutch IJ ligature
859 begintsuglyph("IJ",50); [see page 274]
860 latin.upij;
861 tsu_render;
862 endtsuglyph;
863
864 % Dutch ij ligature
865 begintsuglyph("ij",51); [see page 319]
866 latin.lowij;
867 tsu_render;
868 endtsuglyph;
869
870 % OE ligature
871 begintsuglyph("OE",82); [see page 283]
872 latin.upoe;
873 tsu_render;
874 endtsuglyph;
875
876 % oe ligature
877 begintsuglyph("oe",83); [see page 328]
878 latin.lowoe;
879 tsu_render;
880 endtsuglyph;
881
882 _____
883
884 endfont;
885
886 _____
```

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
```

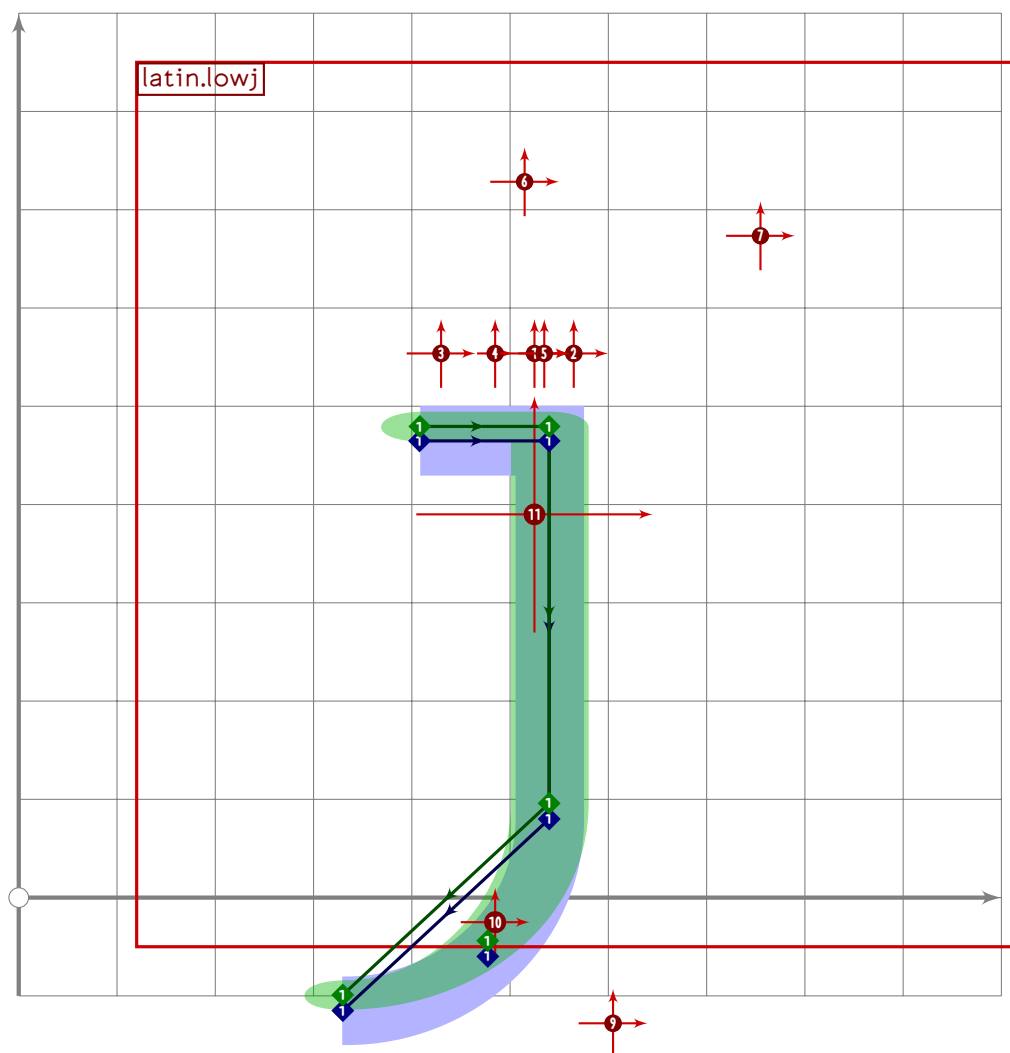
02

Latin Extended B

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

U+0237
tsuku.uni0237

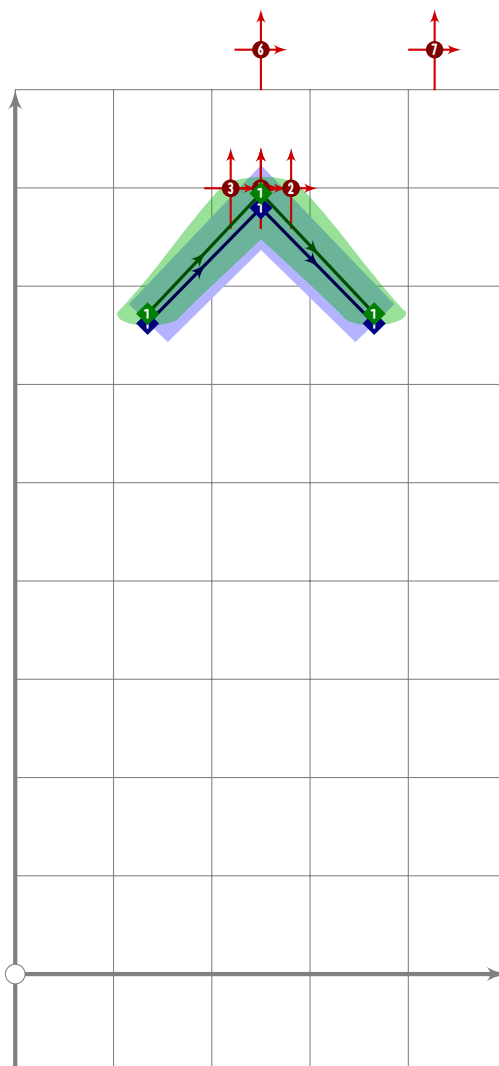
02



```
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
```

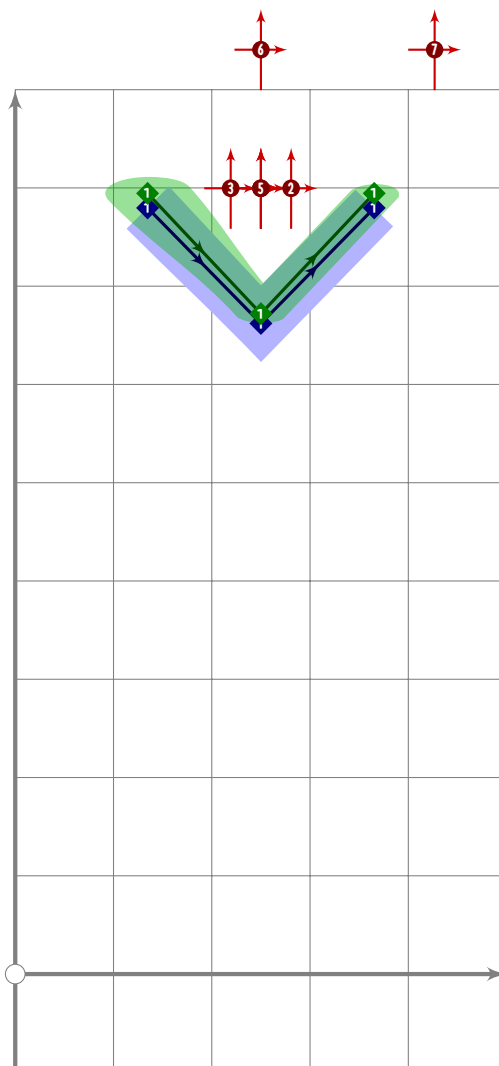
```

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

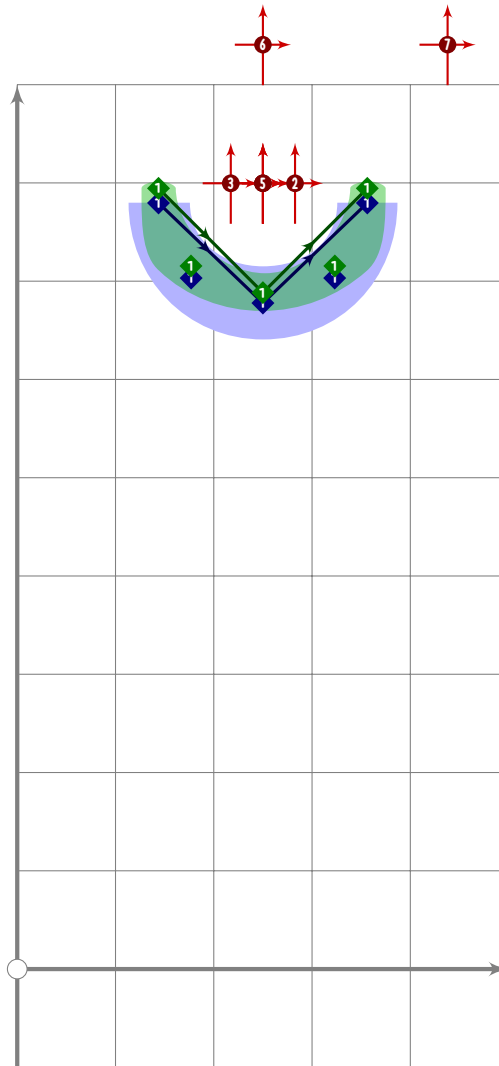
```

U+02C7
tsuku.caron

02



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



02

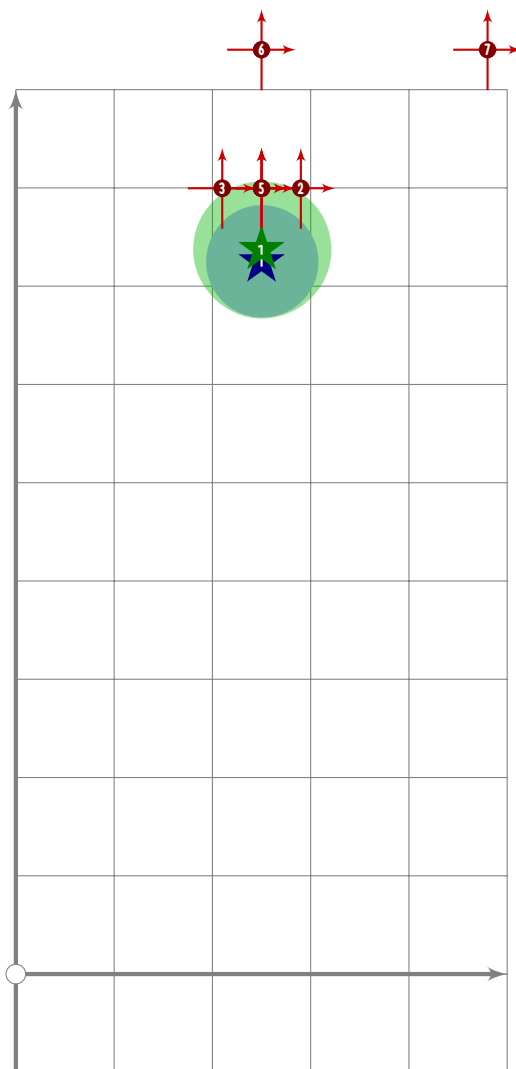
```

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

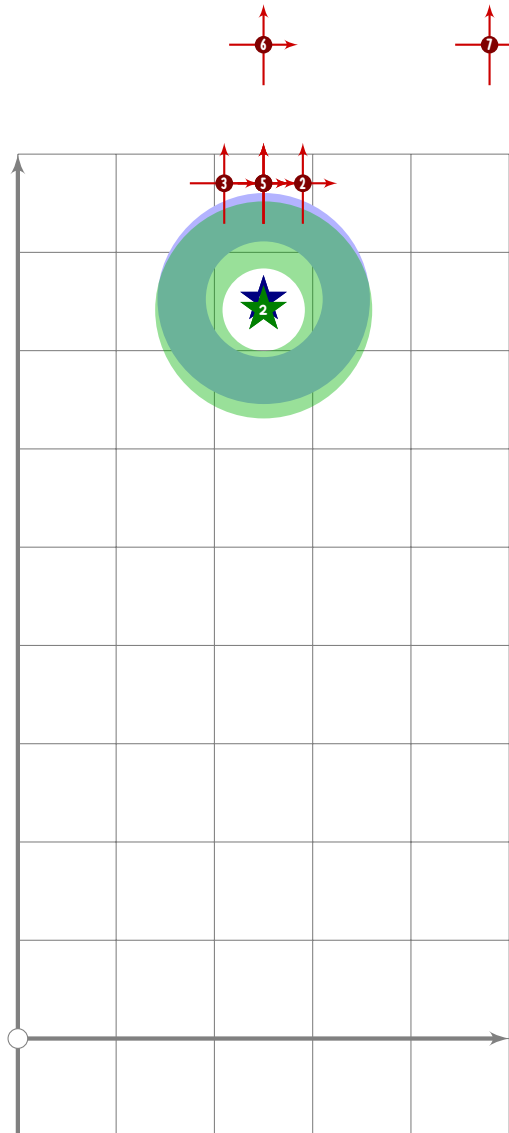
```

U+02D9
tsuku.dotaccent

02



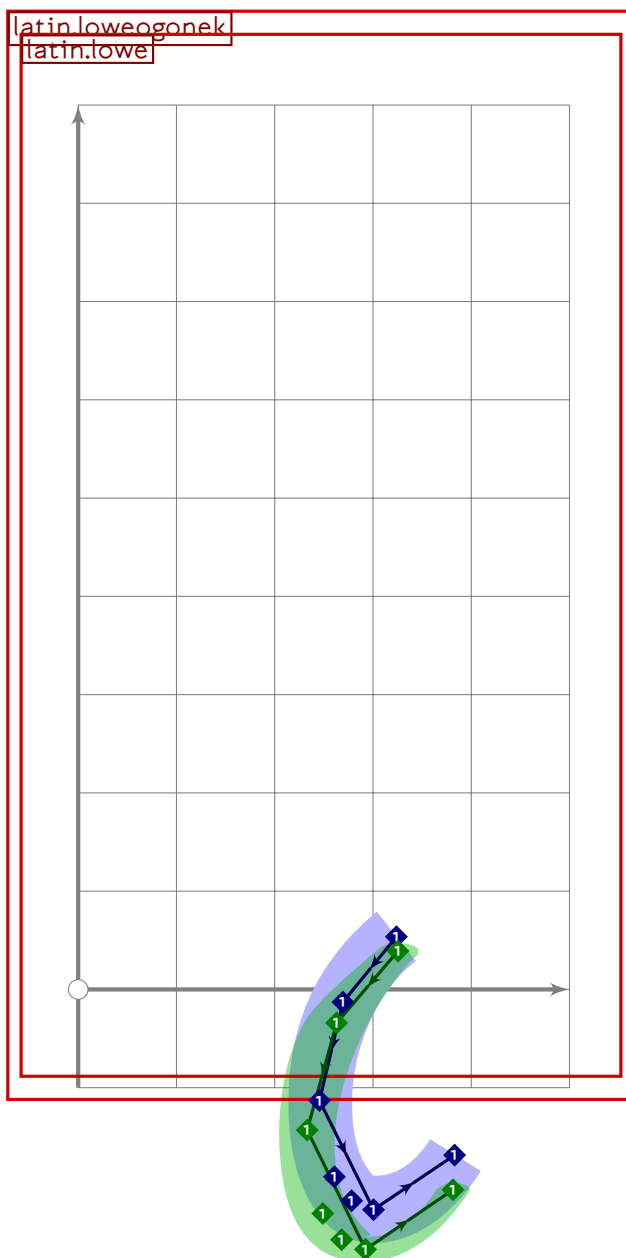
```
84 % dot above
85 begintsuglyph("dotaccent";217);
86 tsu_accent.apply()(tsu_accent.dotabove);
87 tsu_render;
88 endtsuglyph;
89
```



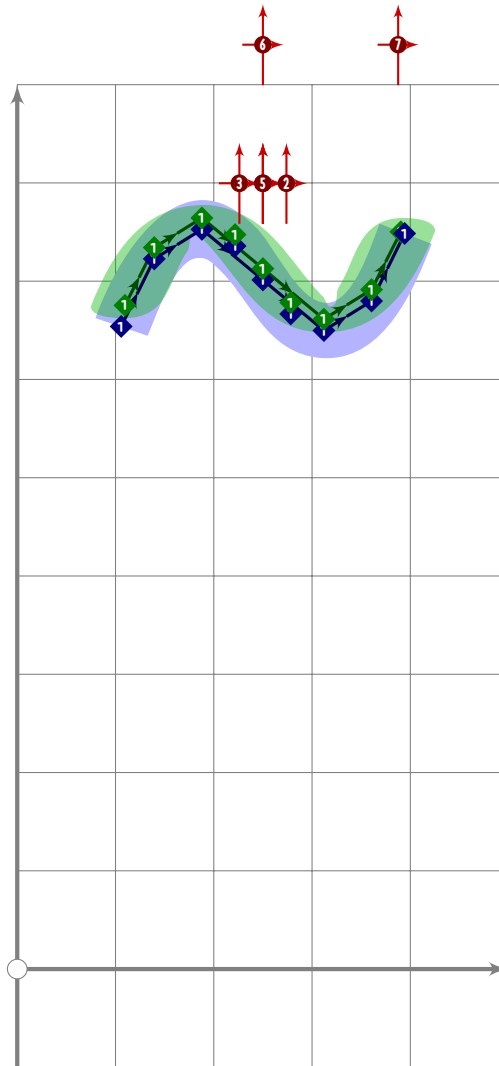
```
90 % ring above
91 begintsuglyph("ring",218);
92   tsu_accent.apply()(tsu_accent.ringabove);
93   tsu_render;
94 endtsuglyph;
95
```

U+02DB
tsuku.ogonek

02



```
96 % ogonek
97 begintsuglyph('ogonek';219);
98   latin.loweogonek;
99   set_bosize(-1,0);
100   tsu_render;
101 endtsuglyph;
102
```

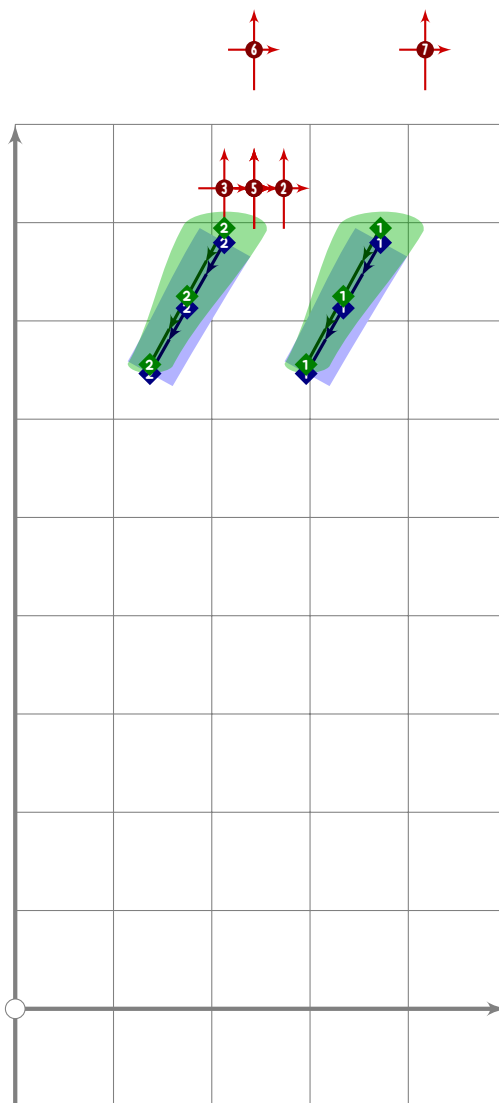


02

```

103 % small tilde
104 begintsuglyph("tilde",220);
105   tsu_accent.apply()(tsu_accent.tilde);
106   tsu_render;
107 endtsuglyph;
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 

---

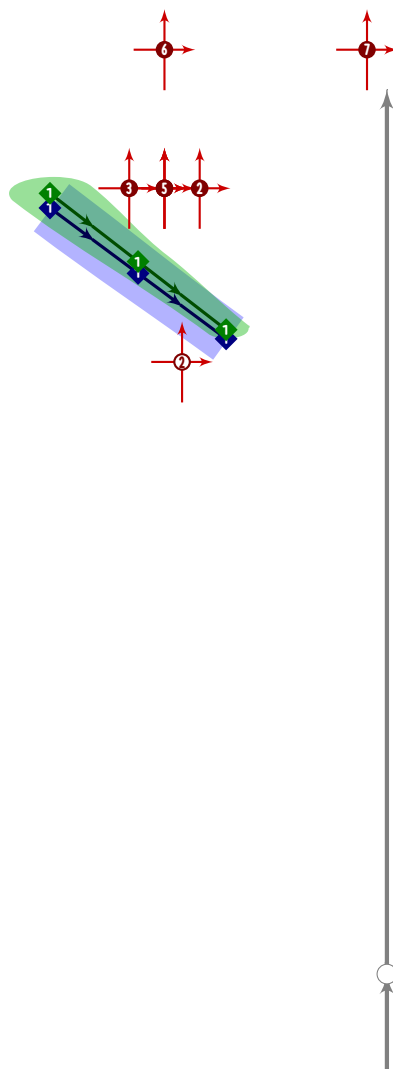

44
```

03

Combining Diacritical Marks

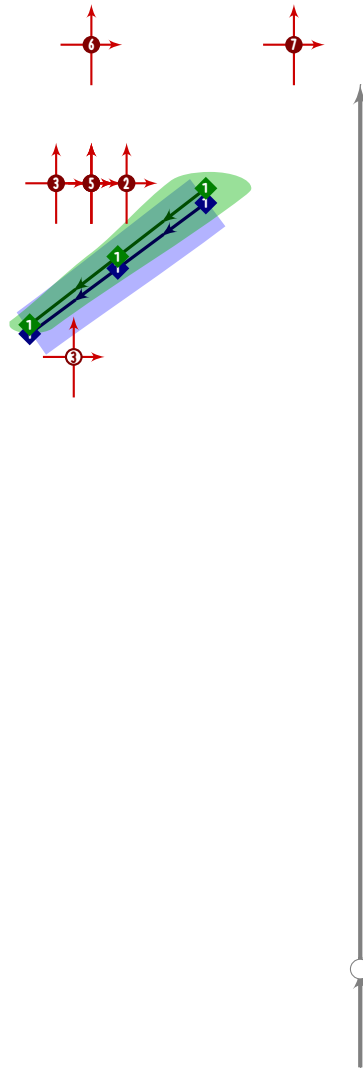
```
45 % COMBINING DIACRITICAL MARKS
46
47 tsu_rescale_combining_accent;
48
```

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
```

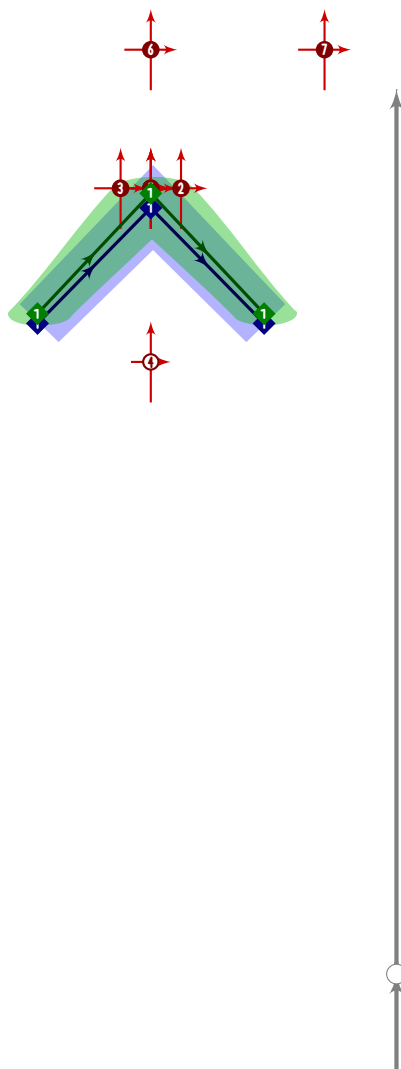


```

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

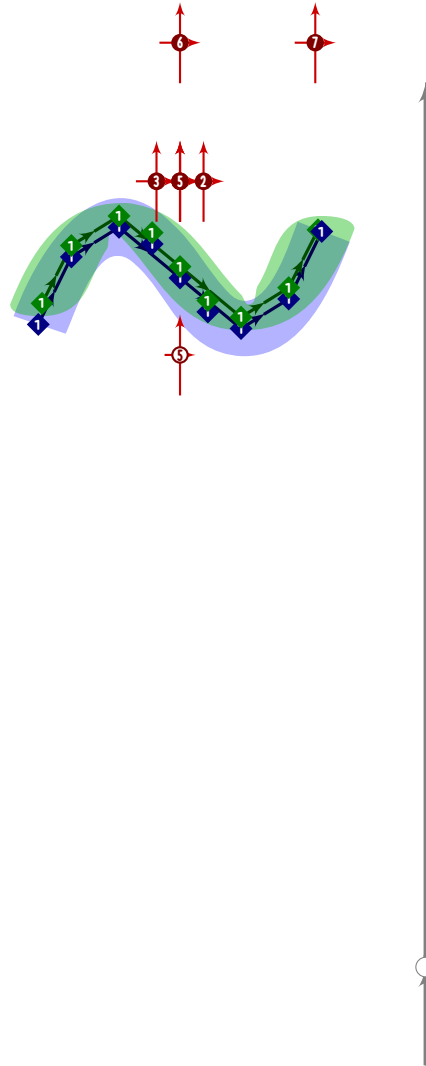
```

U+0302
tsuku.uni0302

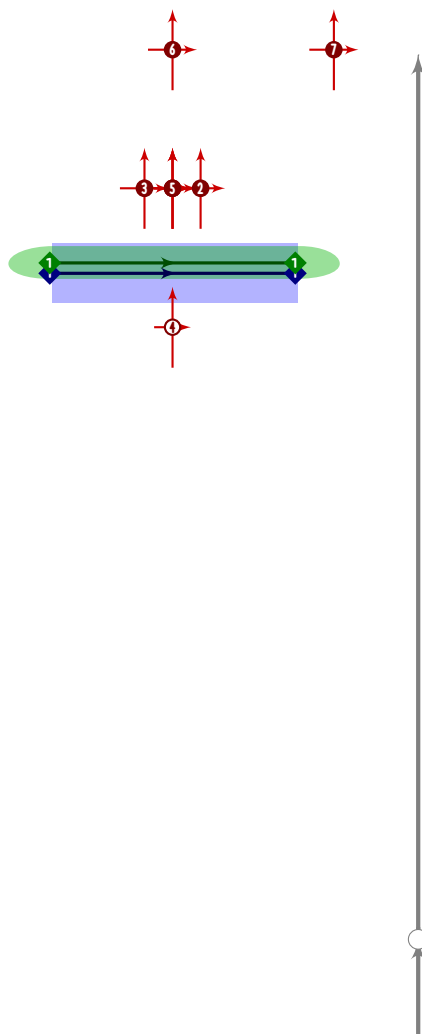


03

```
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
```

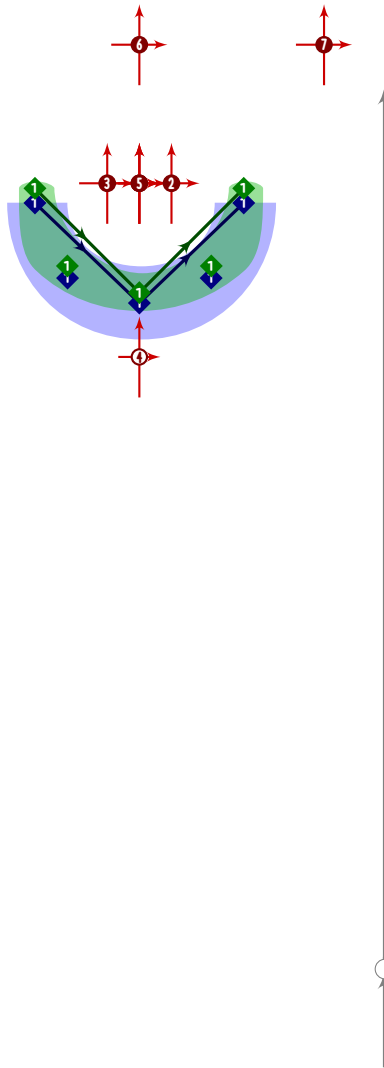


```
70 % tilde accent
71 begintsuglyph("tildecomb";3);
72 tsu_accent.apply()(tsu_accent.tilde);
73 push_anchor(-anc_tilde,accent_default[anc_tilde]);
74 tsu_render;
75 endtsuglyph;
76
```



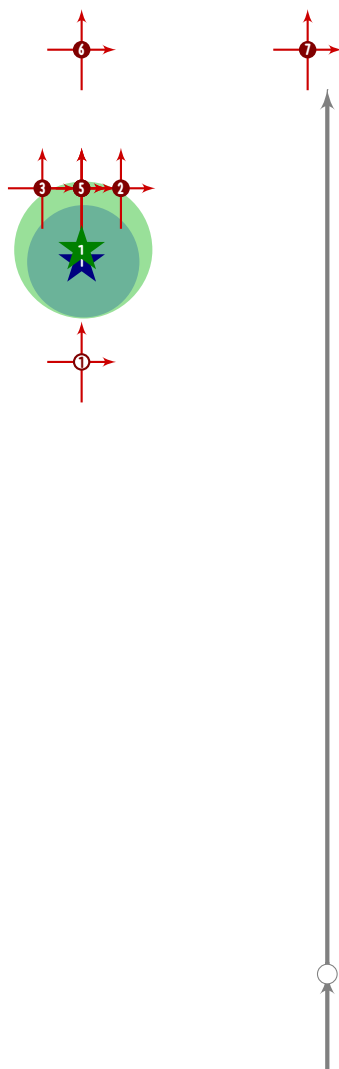
03

```
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
```



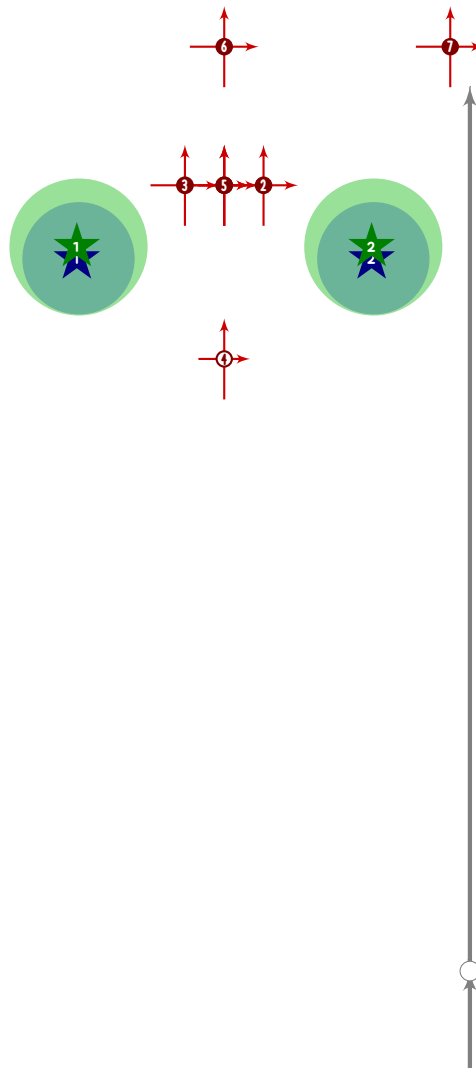
```
84 % breve
85 begint Suglyph("uni0306",6);
86   tsu_accent.apply()(tsu_accent.breve);
87   push_anchor(-anc_wide,accent_default[anc_wide]);
88   tsu_render;
89 endtsuglyph;
90
```

U+0307
tsuku.uni0307



03

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

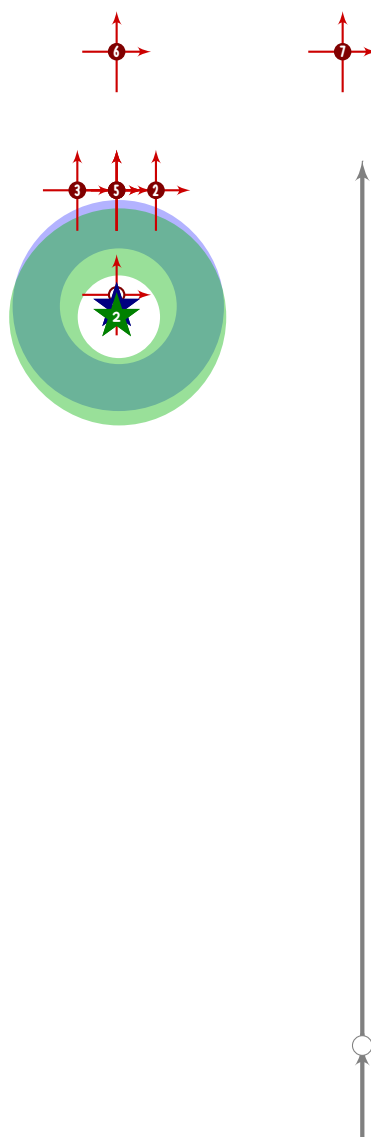



```

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

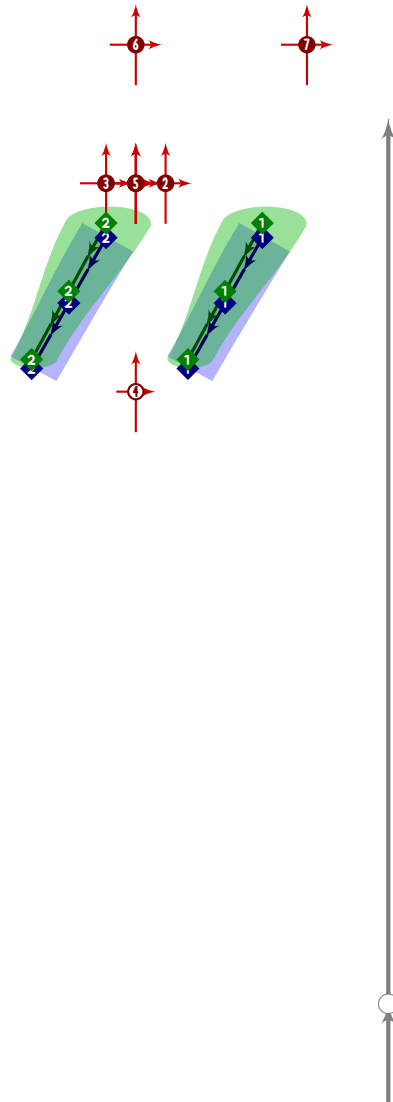
```

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
```

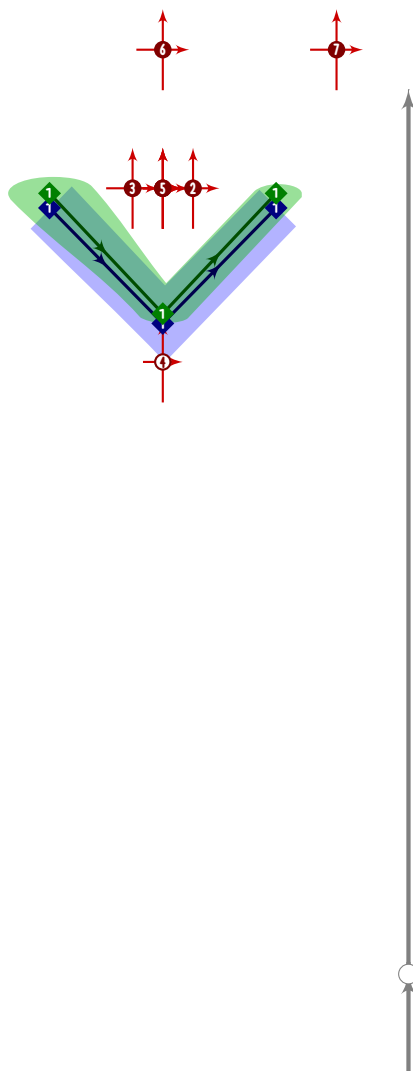


```

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

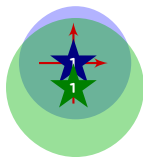
```

U+030C
tsuku.uni030C



03

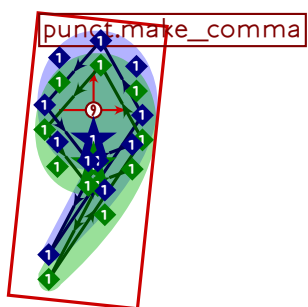
```
121 % caron/hacek
122 begint Suglyph("uni030C",12);
123   tsu_accent.apply()(tsu_accent.caron);
124   push_anchor(-anc_wide,accent_default[anc_wide]);
125   tsu_render;
126 endtsuglyph;
127
```



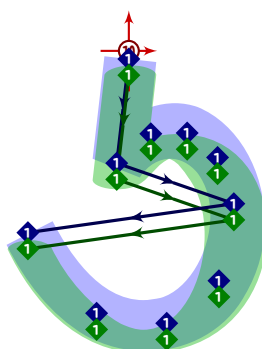
```
128 % dot below
129 begint Suglyph("dotbelowcomb";35);
130   tsu_accent.apply()(tsu_accent.dotbelow);
131   push_anchor(-anc_lower,accent_default[anc_lower]);
132   tsu_render;
133 endtsuglyph;
134
```

U+0326
tsuku.uni0326

03



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



```

142 % cedilla
143 beginTsuglyph("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 _____

```