

作りましょう 0.7

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 0.7

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 II

Shared kyouiku kanji

gradeone.mp

ONE

gradetwo.mp

TWO

gradethree.mp

THRE

gradefour.mp

FOUR

gradefive.mp

FIVE

gradesix.mp

SIX

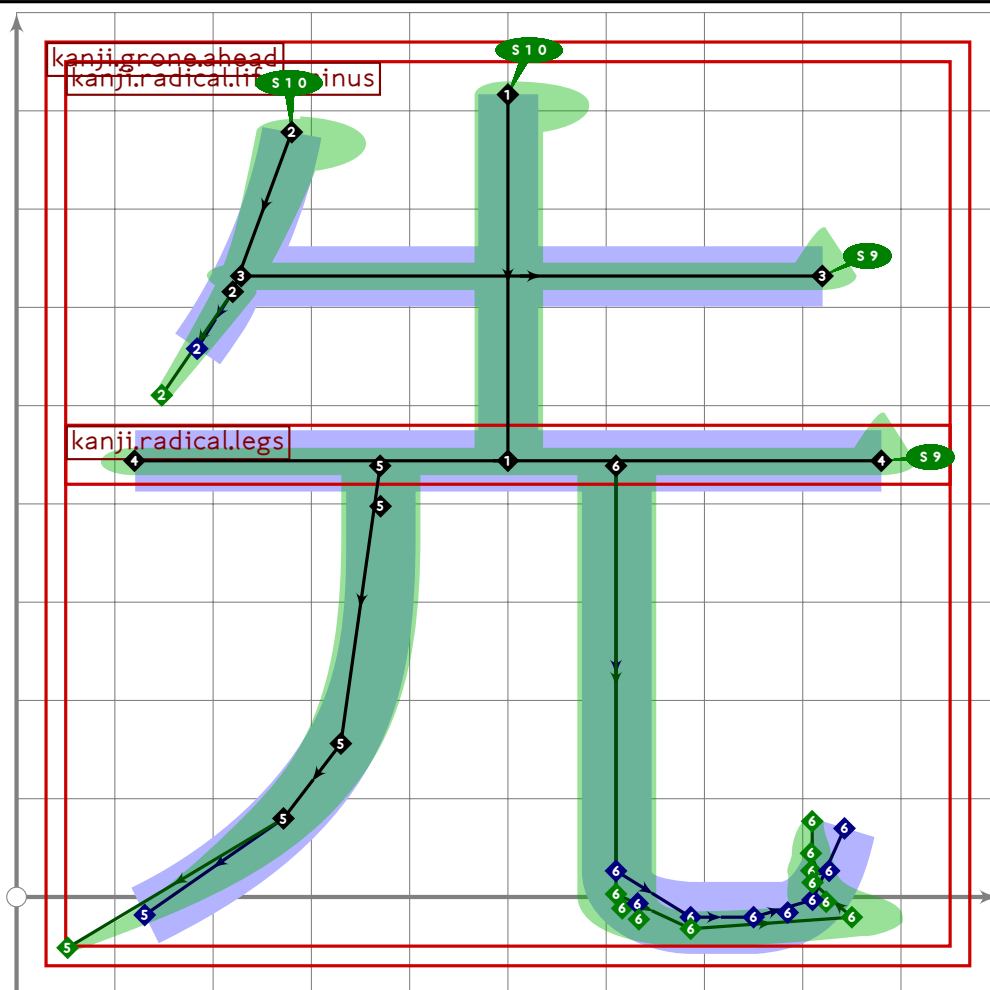
gradeone.mp

ONE

```

1 %
2 % Grade One kanji used on more than one page
3 % Copyright (C) 2011, 2012, 2013 Matthew Skala
4 %
5-29 [Standard copyright notice]
30
31 inclusion_lock(gradeone);
32
33

```

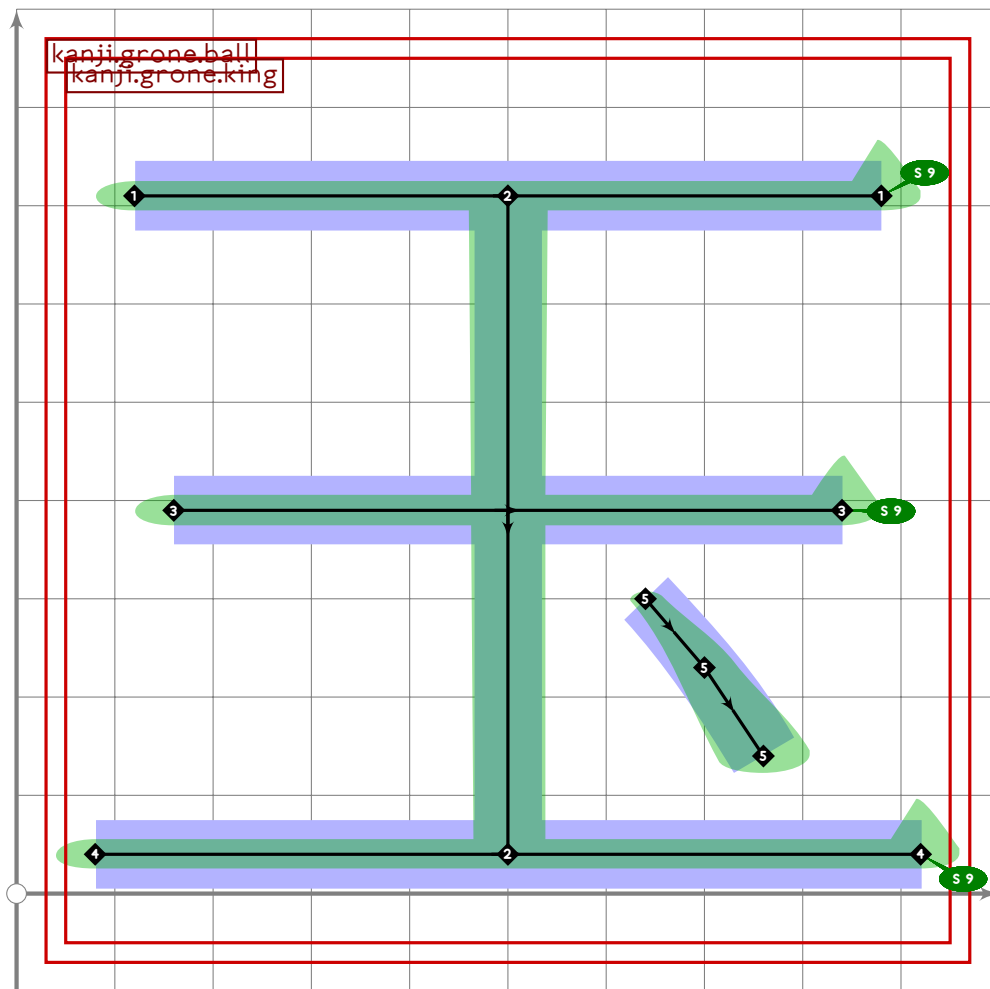


```

34
35 vardef kanji.grone.ahead =
36   push_pbox_toexpand("kanji.grone.ahead");
37   build_kanji.tb(450,60)
38     (kanji.radical.life_minus)
39     (kanji.radical.legs);
40   expand_pbox;
41 enddef;

```

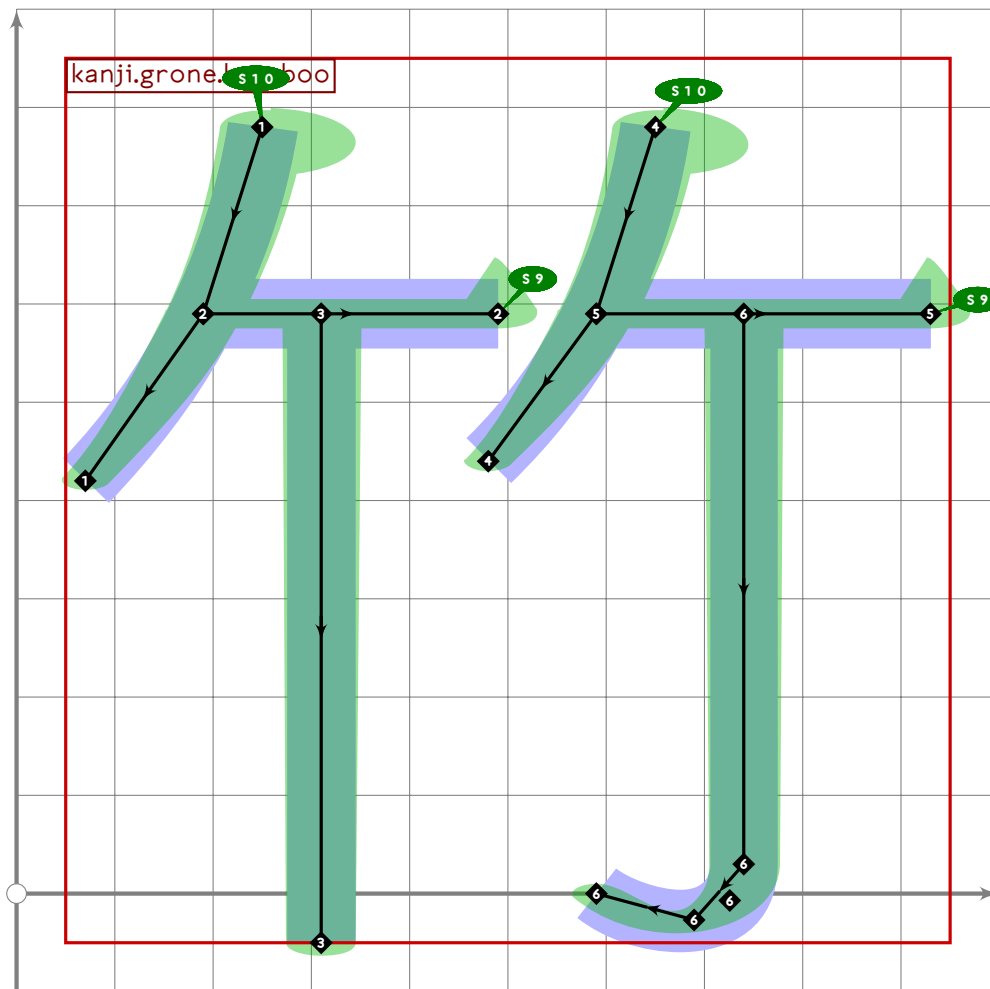
ONE



```

42
43 vardef kanji.grone.ball =
44   push_pbox_toexpand("kanji.grone.ball");
45   kanji.grone.king;
46   push_stroke((640,300)..(700,230)..(760,140),
47     (1,1)-(14,14)-(18,18));
48   expand_pbox;
49 enddef;

```

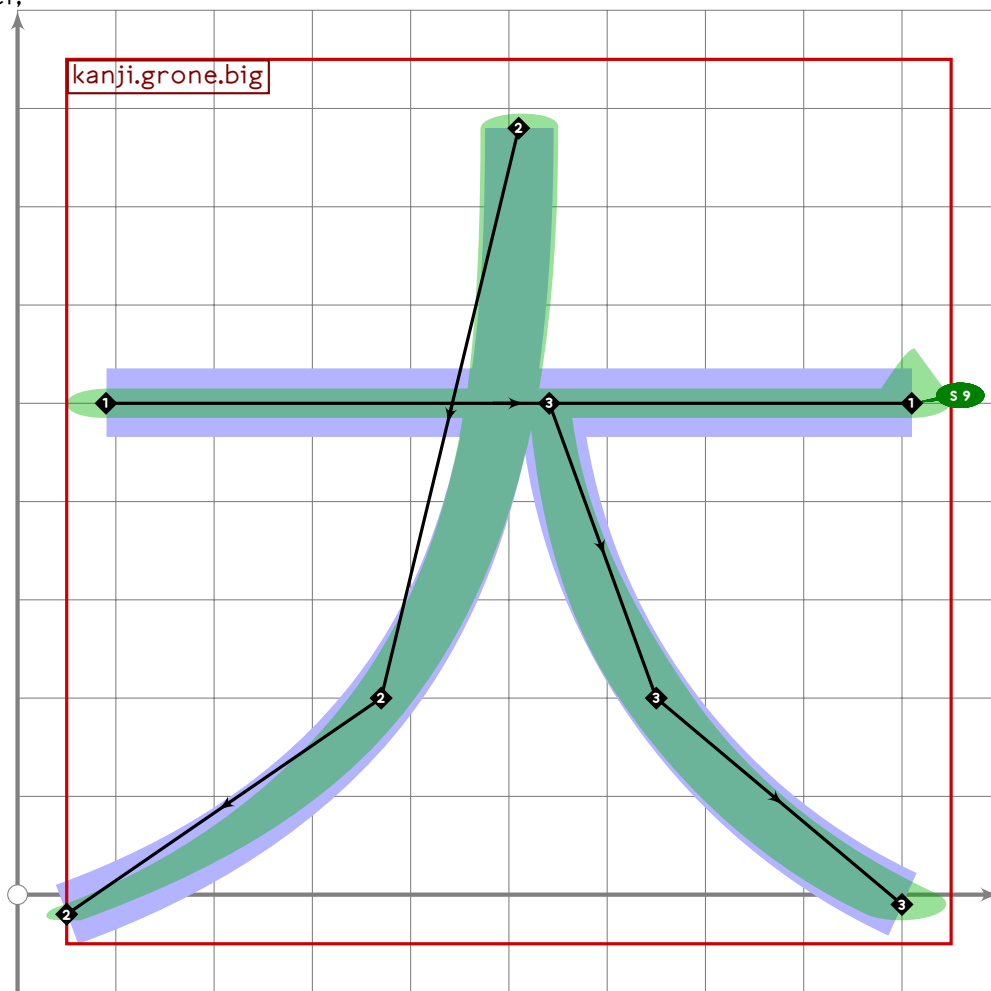
```

50
51 vardef kanji.grone.bamboo =
52   push_pbox_toexpand("kanji.grone.bamboo");
53   push_stroke((250,780)..(190,590)..(70,420),
54     (1.7,1.7)–(1.6,1.6)–(1.2,1.2));
55   set_boserif(0,0,10);
56   push_stroke((190,590)–(490,590),
57     (1.6,1.6)–(1.6,1.6));
58   set_boserif(0,1,9);
59   push_stroke((310,590)–(310,-50),
60     (1.6,1.6)–(1.5,1.5));
61   push_stroke((650,780)..(590,590)..(480,440),
62     (1.7,1.7)–(1.6,1.6)–(1.2,1.2));
63   set_boserif(0,0,10);
64   push_stroke((590,590)–(930,590),
65     (1.6,1.6)–(1.6,1.6));
66   set_boserif(0,1,9);
67   push_stroke((740,590),
68     (1.6,1.6));
69   build_kanji.add_jtail(0);
70   expand_pbox;

```

ONE

71 enddef;



72

73 vardef kanji.grone.big =

74 push_pbox_toexpand("KANJI.GRONE.BIG");

75 push_stroke((90,500)-(910,500),

76 (1.6,1.6)-(1.6,1.6));

77 set_boserif(0,1,9);

78 push_stroke((510,780){down}..(370,200)..{curl 0.5}(50,-20),

79 (1.6,1.6)-(1.4,1.4)-(1.1,1.1));

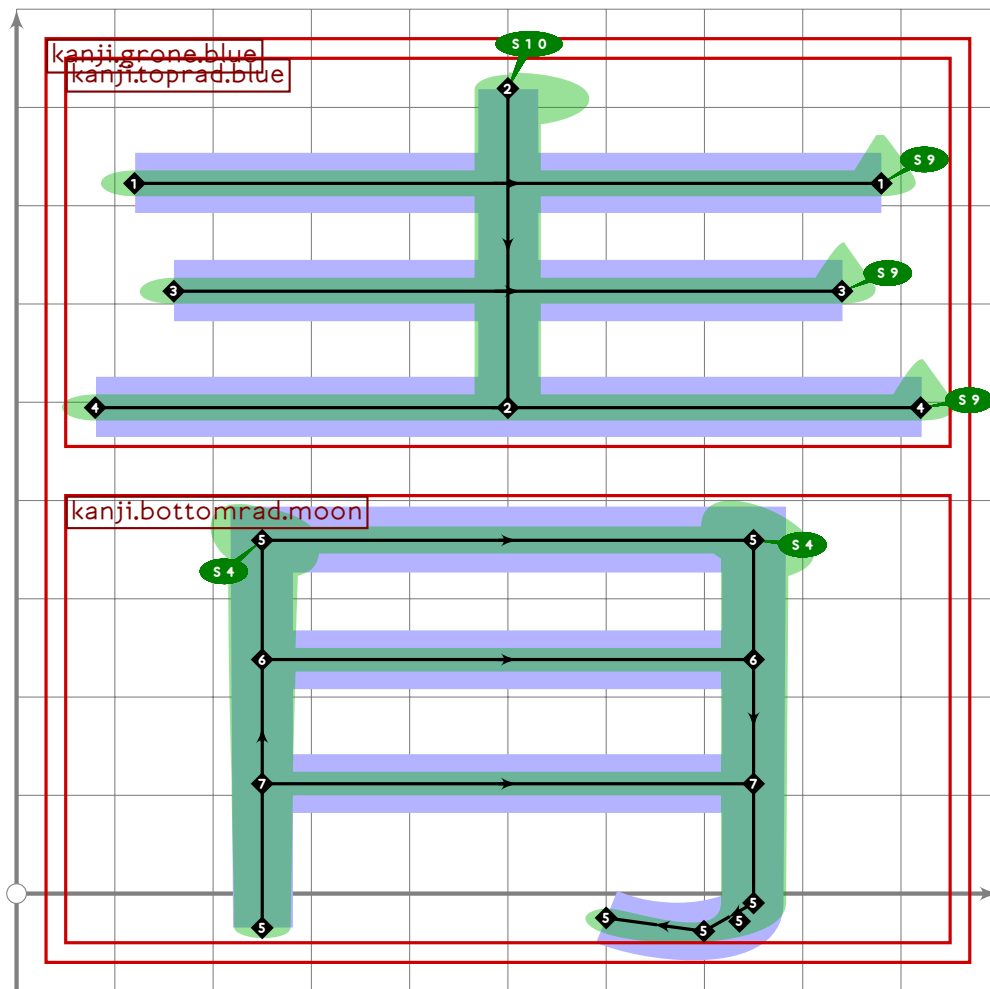
80 push_stroke(((get_stroke(-1) intersectionpoint get_stroke(0))+(50,0))..

81 (650,200)..(900,-10),

82 (1.1,1.1)-(1.5,1.5)-(1.7,1.7));

83 expand_pbox;

84 enddef;

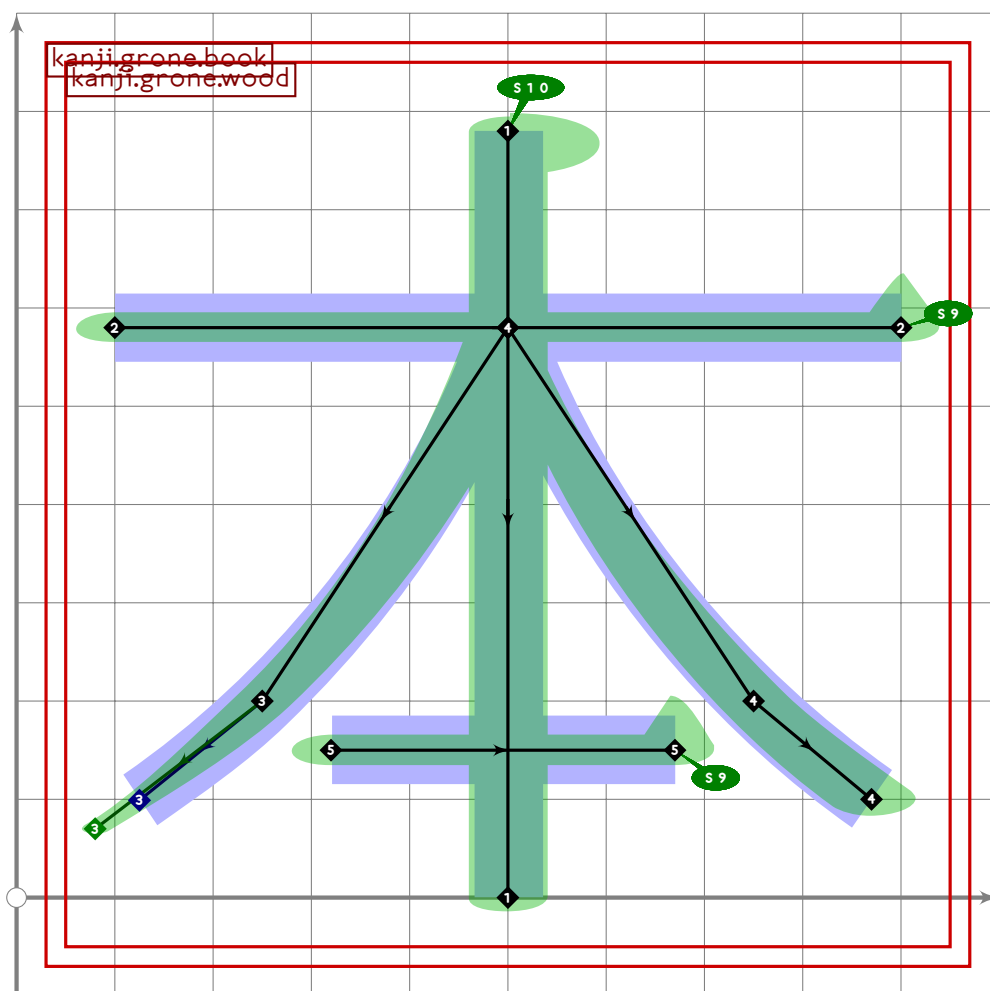


```

85
86 vardef kanji.grone.blue =
87   push_pbox_toexpand("kanji.grone.blue");
88   build_kanji.level(build_kanji.tb(430;50)
89     (kanji.toprad.blue)
90     (kanji.bottomrad.moon));
91   expand_pbox;
92 enddef;

```

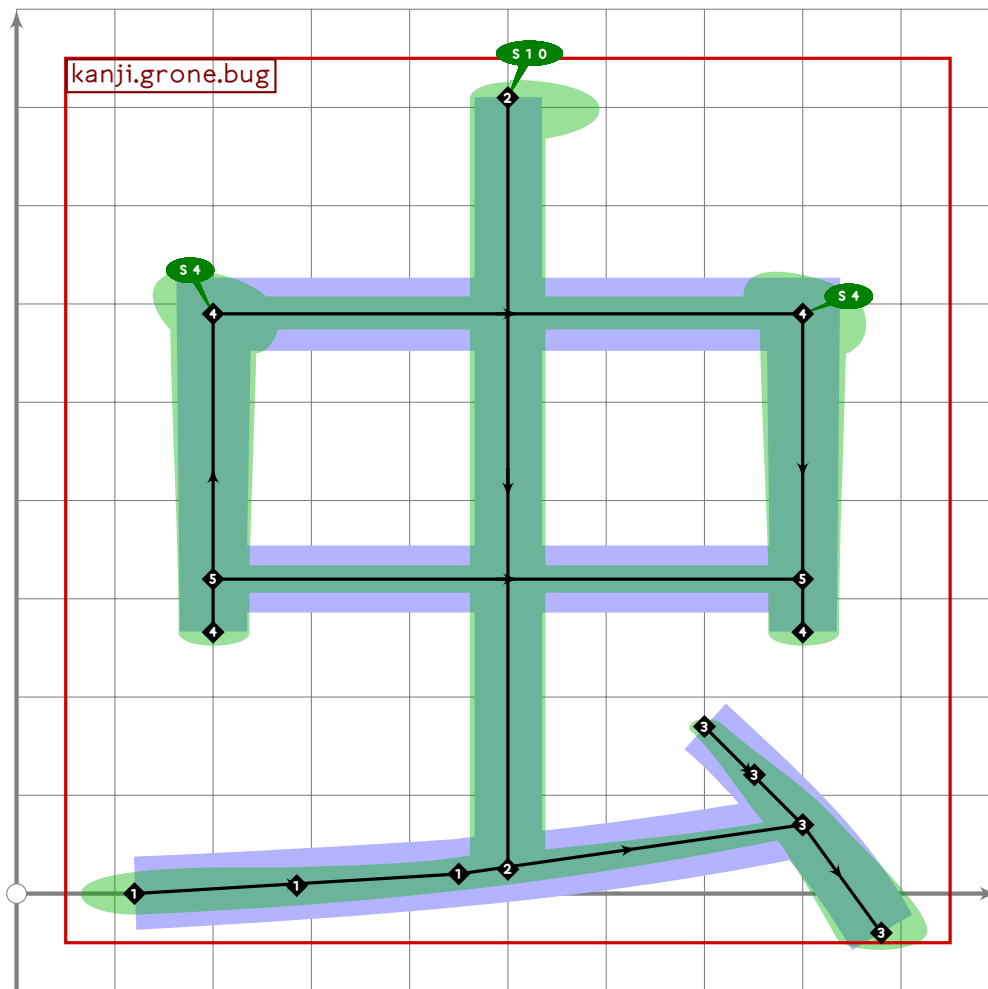
ONE



```

93
94 vardef kanji.grone.book =
95   push_pbox_toexpand("kanji.grone.book");
96   kanji.grone.wood;
97   push_stroke((320,150)–(670,150),
98     (1.6,1.6)–(1.6,1.6));
99   set_bos serif(0,1,9);
100   expand_pbox;
101 enddef;

```

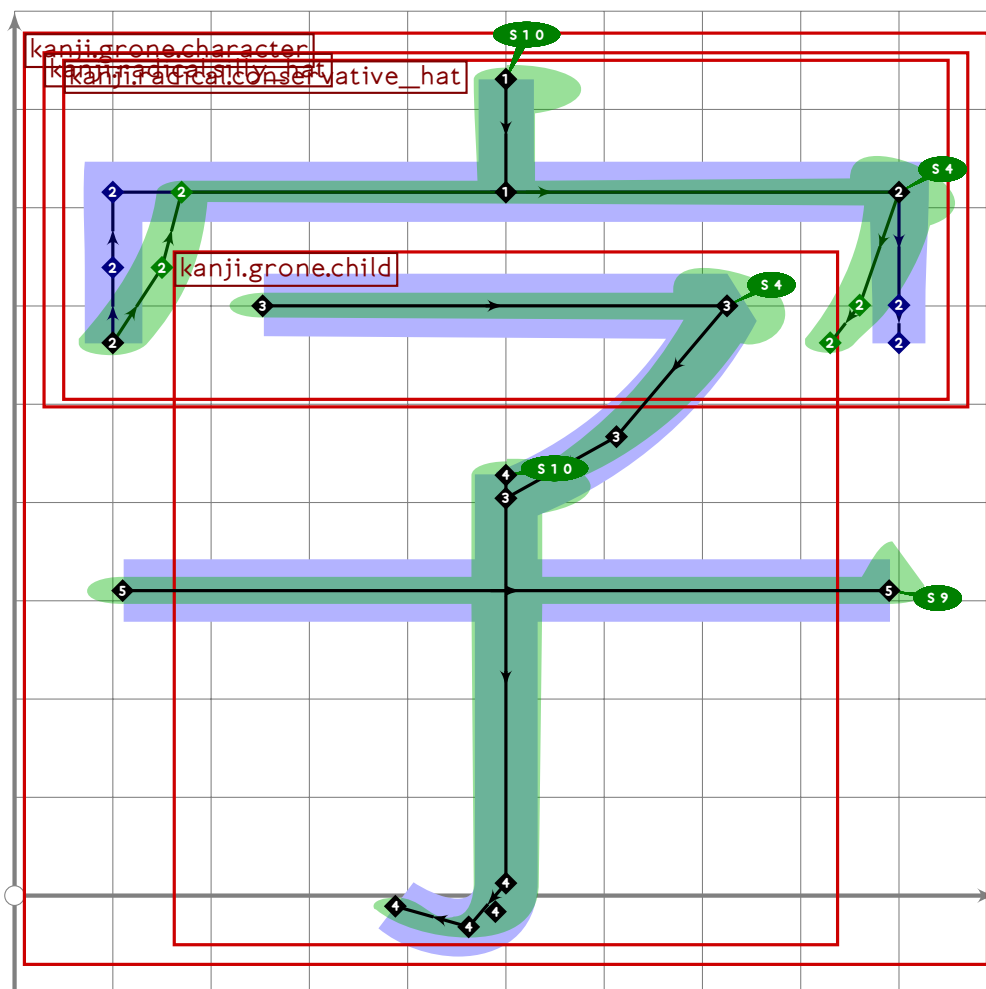


```

102
103 vardef kanji.grone.bug =
104   push_pbox_toexpand("kanji.grone.bug");
105   push_stroke((120,0)..tension 1.2..(450,20)..(800,70),
106     (2,2)-(1.7,1.7)-(1.2,1.2));
107   push_stroke(
108     (500,810)-(get_strokep(0) intersectionpoint ((500,1000)-(500,0))),
109     (1.6,1.6)-(1.5,1.5));
110   set_boserif(0,0,10);
111   push_stroke((700,170)..tension 1.3..(800,70)..(880,40),
112     (1,1)-(1.5,1.5)-(1.8,1.8));
113   build_kanji.box((200,590),(800,320));
114   expand_pbox;
115 enddef;

```

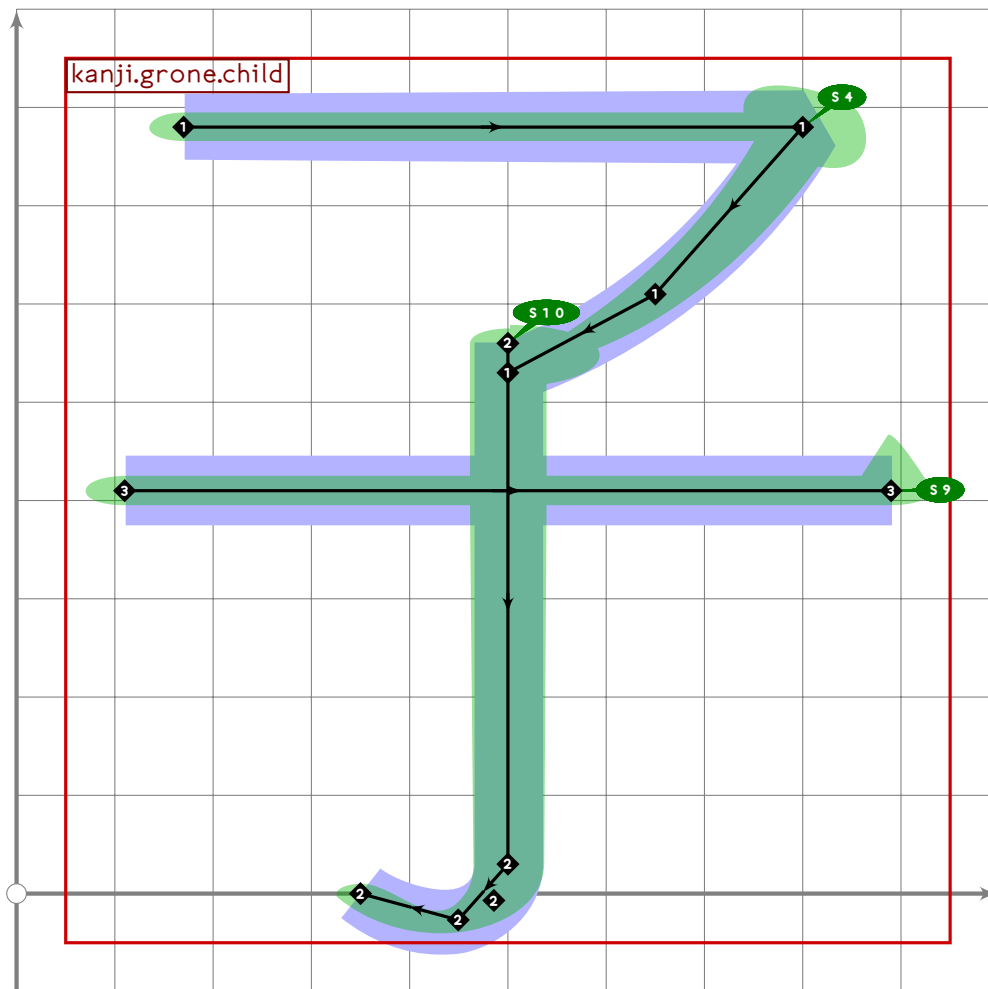
ONE



```

116
117 vardef kanji.grone.character =
118   push_pbox_toexpand("kanji.grone.character");
119   begingroup
120     save charsvp;
121     path charsvp;
122     build_kanji.tb(580,150)
123       (kanji.radical.silly_hat)
124       (build_kanji.sscale(xscaled 0.75)
125         (kanji.grone.child;
126           charsvp:=get_strokep(0);
127           replace_strokep(0)(charsvp));
128     endgroup;
129     expand_pbox;
130 enddef;

```

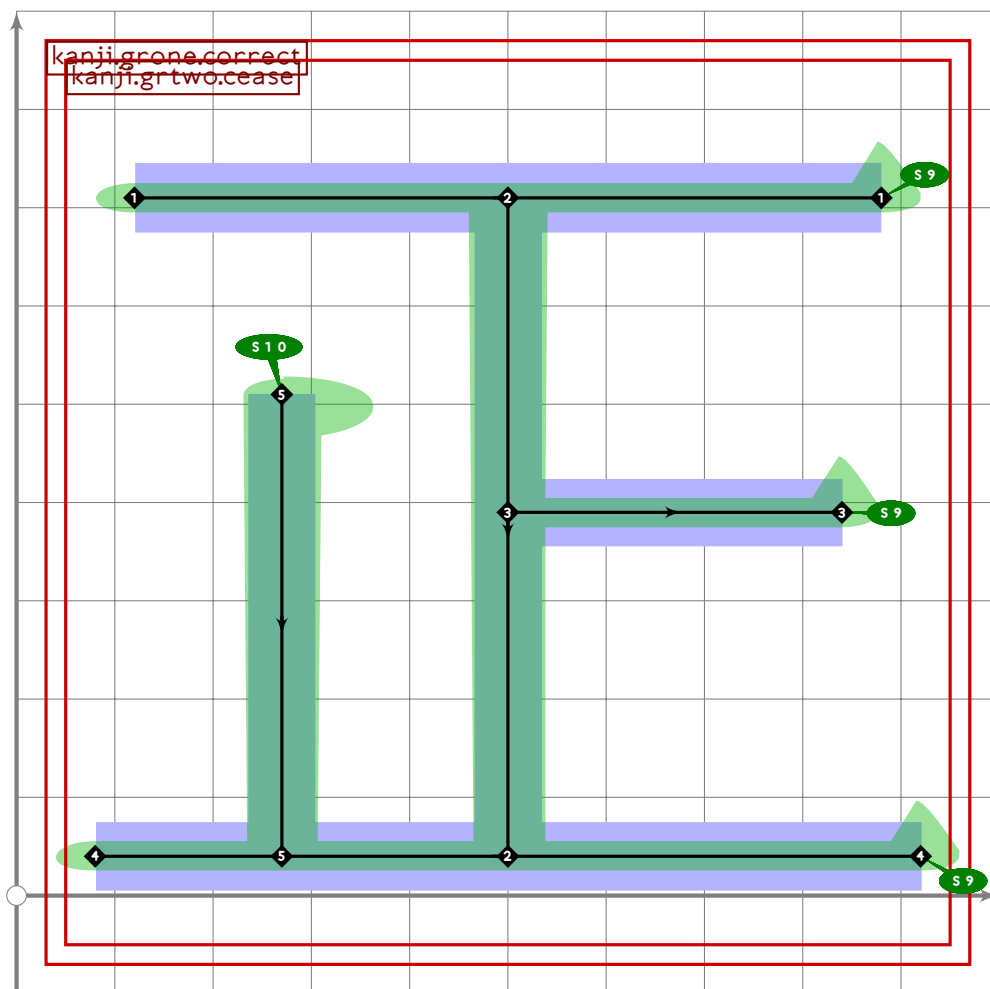


```

131
132 vardef kanji.grone.child =
133   push_pbox_toexpand("kanji.grone.child");
134   push_stroke((170,780)–(800,780)..(650,610)..(500,530),
135     (1.5,1.5)–(1.6,1.6)–(1.4,1.4)–(1,1));
136   set_boserif(0,1,4);
137   set_botip(0,1,0);
138   push_stroke((500,560),
139     (1.6,1.6));
140   build_kanji.add_jtail(0);
141   set_boserif(0,0,10);
142   push_stroke((110,410)–(890,410),
143     (1.6,1.6)–(1.6,1.6));
144   set_boserif(0,1,9);
145   expand_pbox;
146 enddef;

```

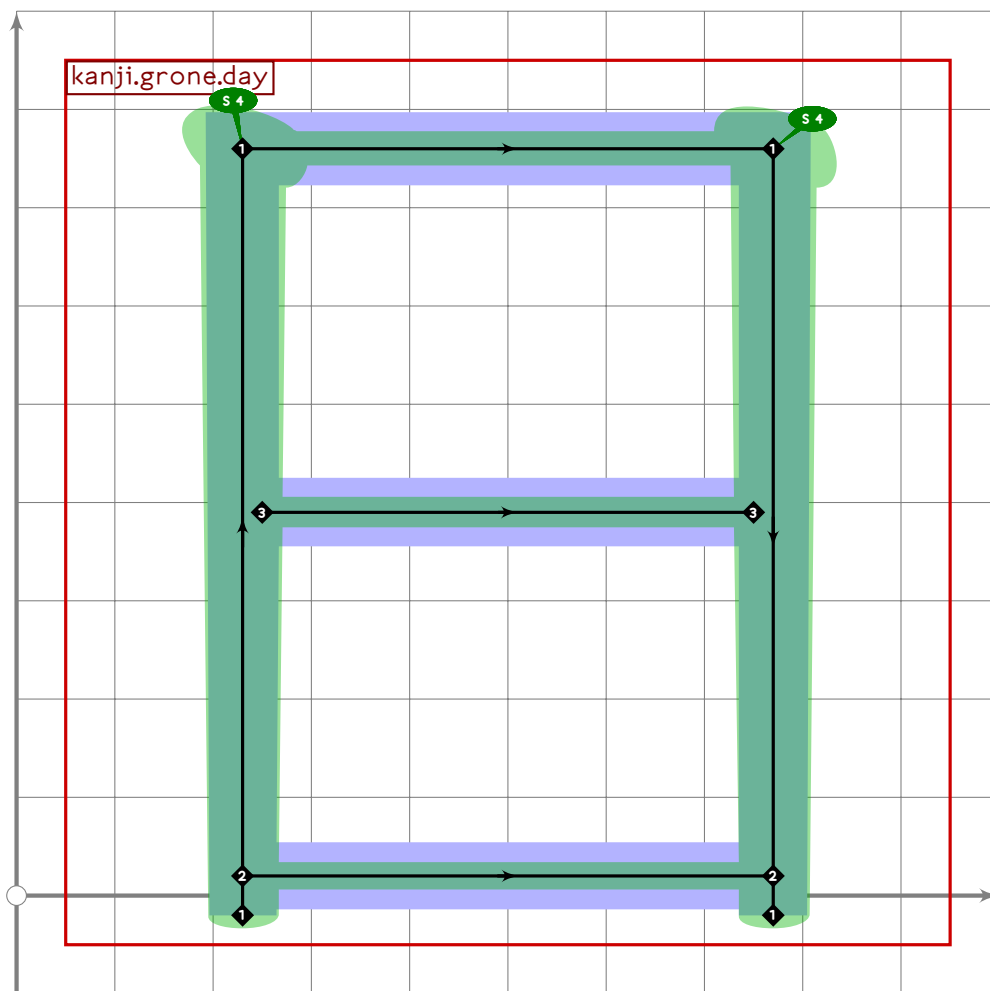
ONE



```

147
148 vardef kanji.grone.correct =
149   push_pbox_toexpand("kanji.grone.correct");
150   push_stroke((120,710)-(880,710),
151     (1.6,1.6)-(1.6,1.6));
152   set_boserif(0,1,9);
153   kanji.grtwo.cease;
154   expand_pbox;
155 enddef;

```

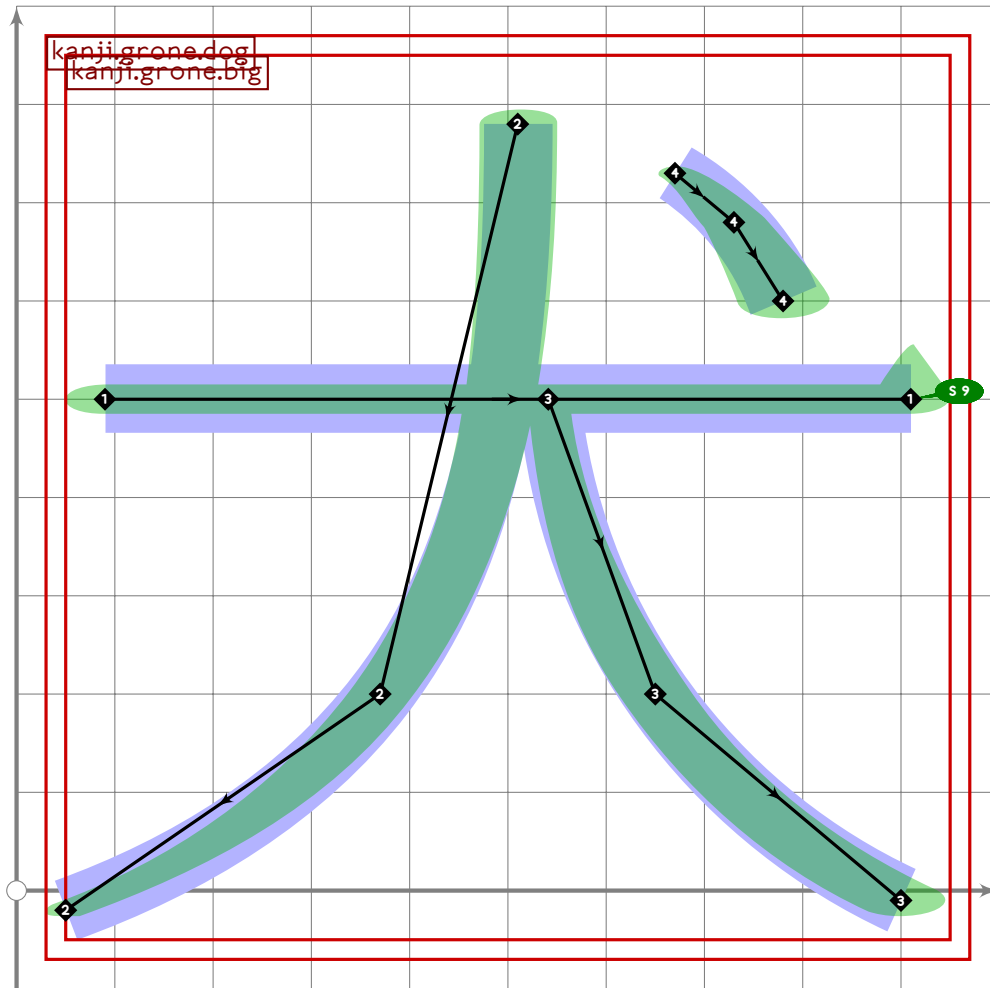
```

156
157 vardef kanji.grone.day =
158   push_pbox_toexpand("kanji.grone.day");
159   build_kanji.box((230,760),(770,20));
160   push_stroke((250,390)–(750,390),
161     (1.6,1.6)–(1.6,1.6));
162   expand_pbox;
163 enddef;

```

U+72AC
tsuku.uni72AC

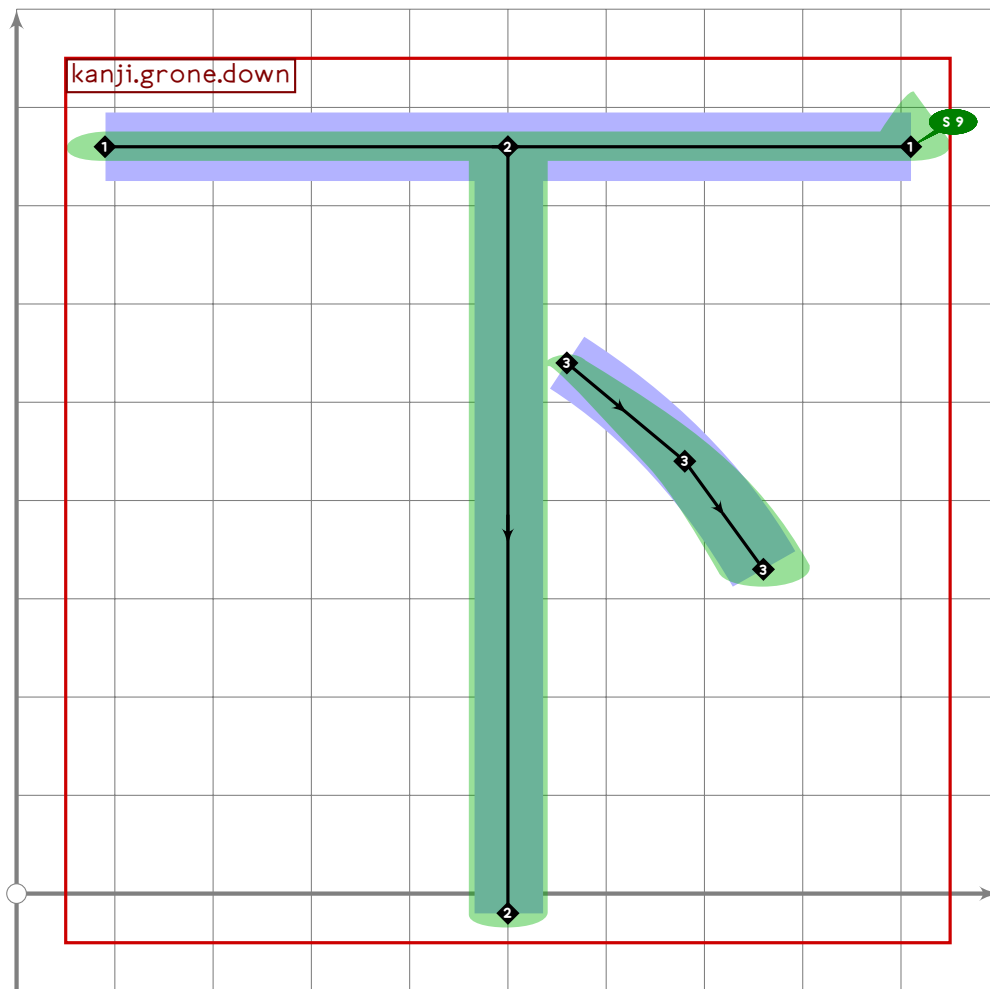
ONE



```

164
165 vardef kanji.grone.dog =
166   push_pbox_toexpand("KANJI.GRONE.DOG");
167   kanji.grone.big;
168   push_stroke((670,730)..(730,680)..(780,600),
169     (1,1)-(14,14)-(18,1.8));
170   expand_pbox;
171 enddef;

```



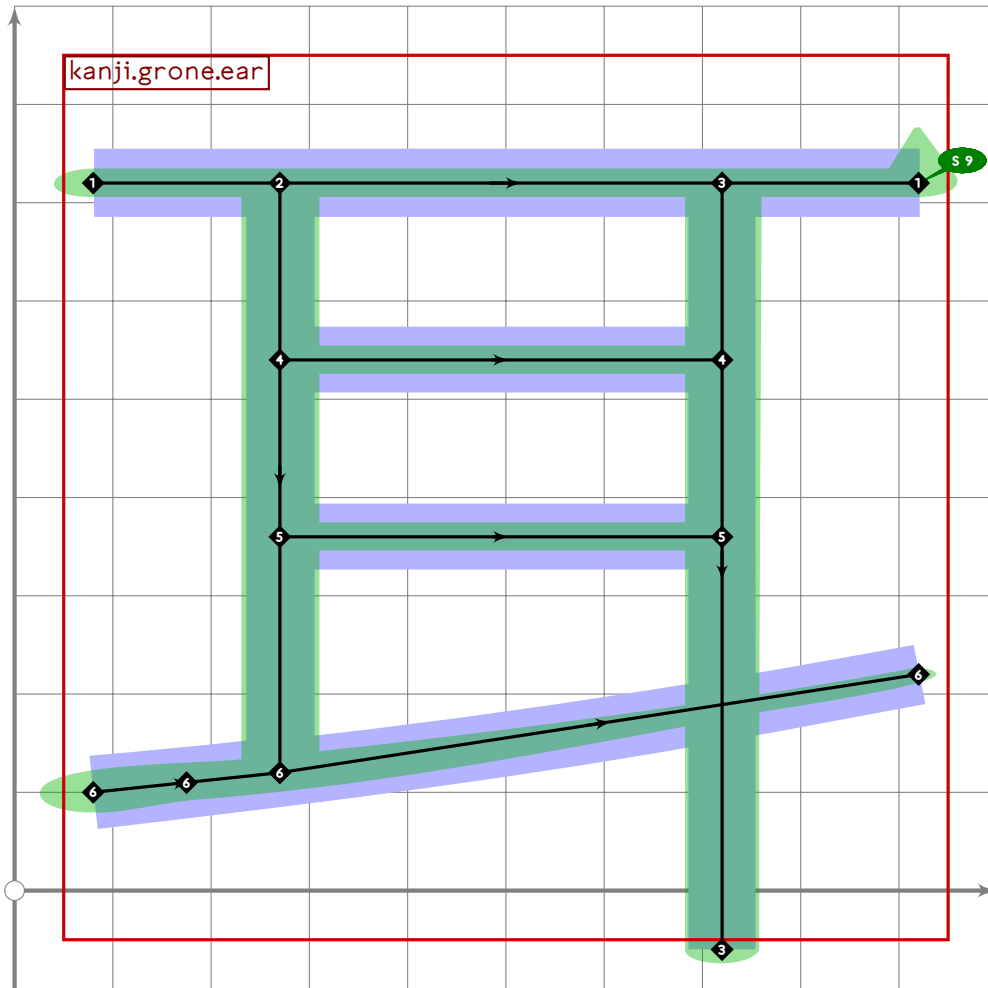
ONE

```

172
173 vardef kanji.grone.down =
174   push_pbox_toexpand("kanji.grone.down");
175   push_stroke((90,760)-(910,760),
176     (1.6,1.6)-(1.6,1.6));
177   set_boserif(0,1,9);
178   push_stroke((500,760)-(500,-20),
179     (1.6,1.6)-(1.6,1.6));
180   push_stroke((560,540)..(680,440)..(760,330),
181     (1.1,1.1)-(1.6,1.6)-(1.8,1.8));
182   expand_pbox;
183 enddef;

```

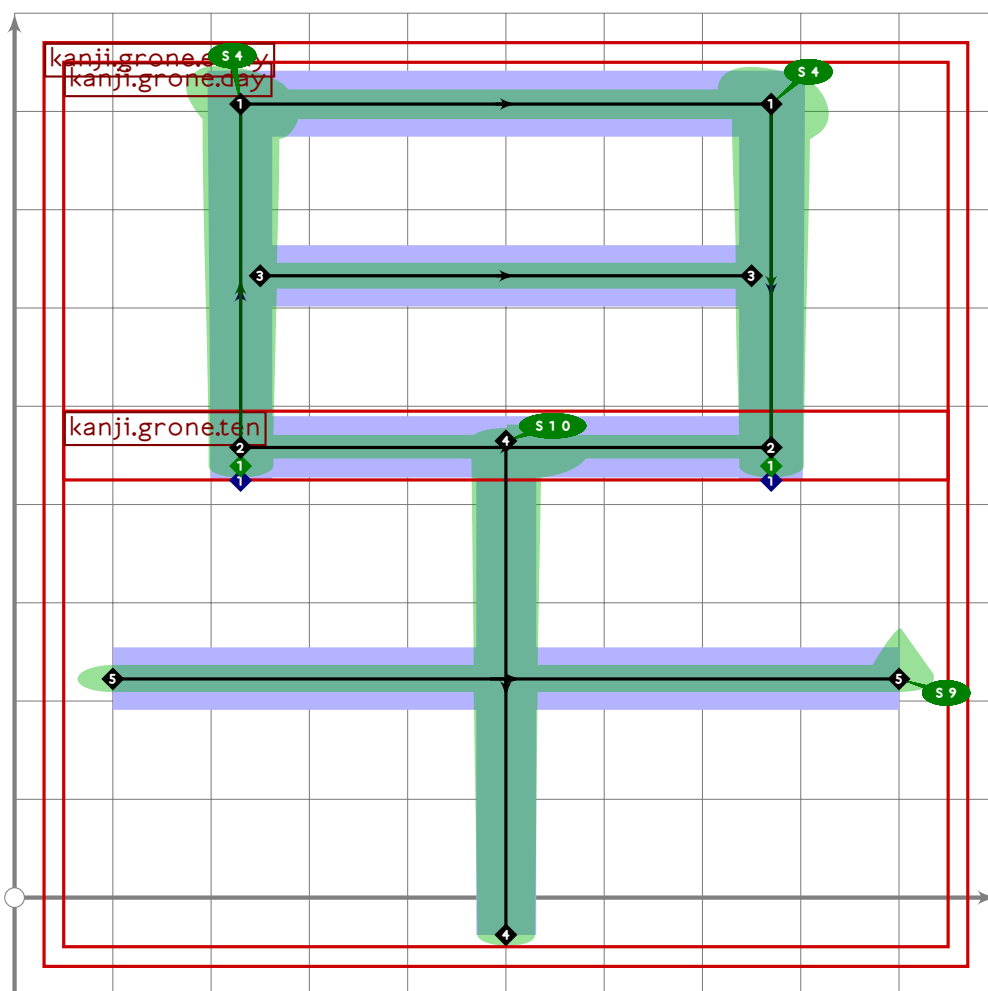
ONE



```

184
185 vardef kanji.grone.ear =
186   push_pbox_toexpand("kanji.grone.ear");
187   push_stroke((80,720)–(920,720),
188     (1.6,1.6)–(1.6,1.6));
189   set_boserif(0,1,9);
190   push_stroke((270,720)–(270,120),
191     (1.6,1.6)–(1.6,1.6));
192   push_stroke((720,720)–(720,-60),
193     (1.6,1.6)–(1.5,1.5));
194   push_stroke((270,540)–(720,540),
195     (1.5,1.5)–(1.5,1.5));
196   push_stroke((270,360)–(720,360),
197     (1.5,1.5)–(1.5,1.5));
198   push_stroke((80,100)..tension 1.3..(270,120)..(920,220),
199     (2,2)–(1.7,1.7)–(1,1));
200   expand_pbox;
201 enddef;

```

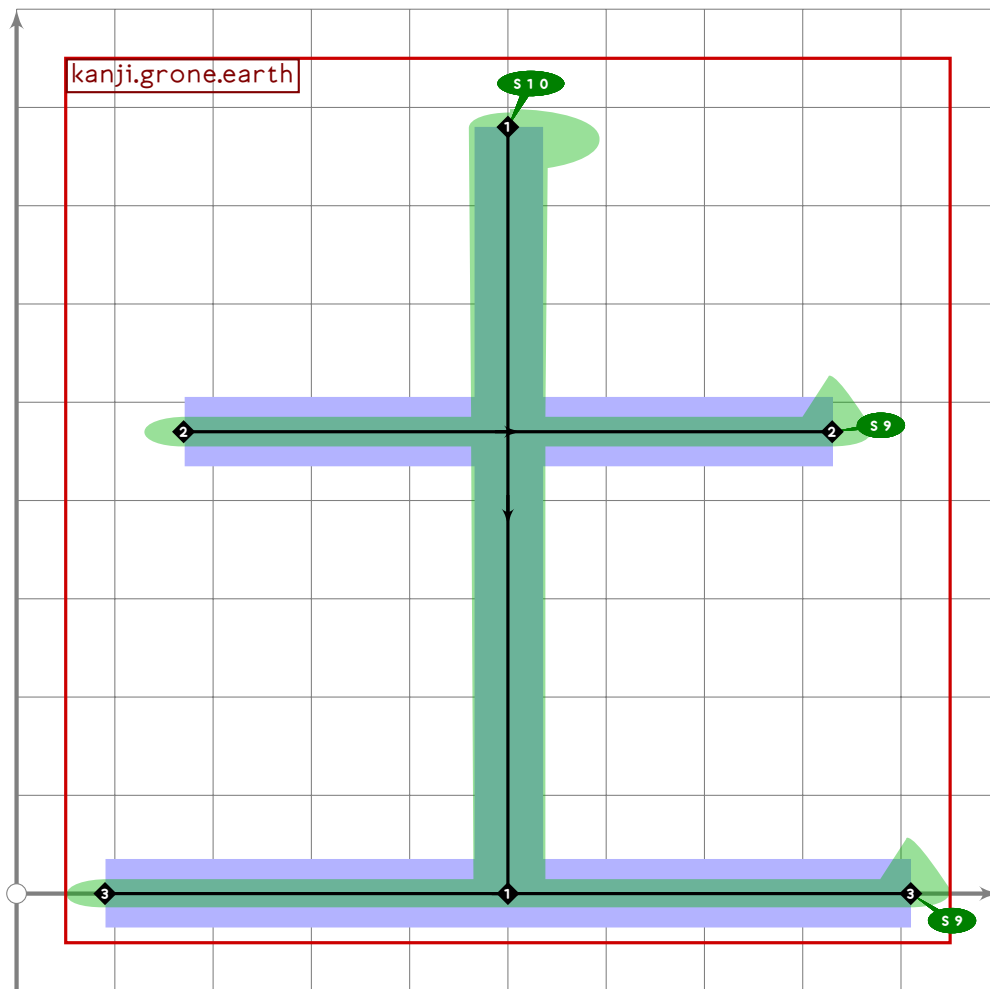


```

202
203 vardef kanji.grone.early =
204   push_pbox_toexpand("kanji.grone.early");
205   build_kanji.level(build_kanji.tb(460,70)
206     (kanji.grone.day)
207     (kanji.grone.ten));
208   set_boserif(0,0,whatever);
209   expand_pbox;
210 enddef;

```

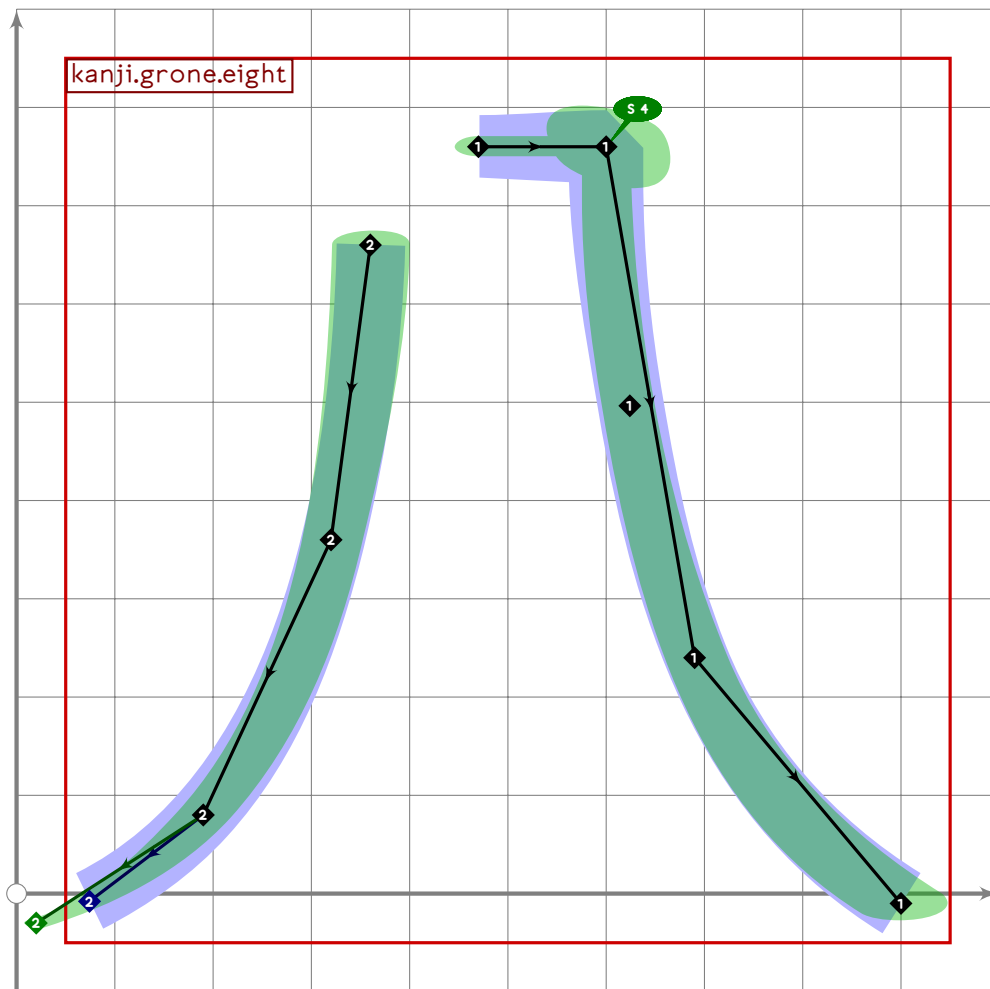
ONE



```

211
212 vardef kanji.grone.earth =
213   push_pbox_toexpand("kanji.grone.earth");
214   push_stroke((500,780)–(500,0),
215     (1.6,1.6)–(1.5,1.5));
216   set_boserif(0,0,10);
217   push_stroke((170,470)–(830,470),
218     (1.6,1.6)–(1.6,1.6));
219   set_boserif(0,1,9);
220   push_stroke((90,0)–(910,0),
221     (1.6,1.6)–(1.6,1.6));
222   set_boserif(0,1,9);
223   expand_pbox;
224 enddef;

```

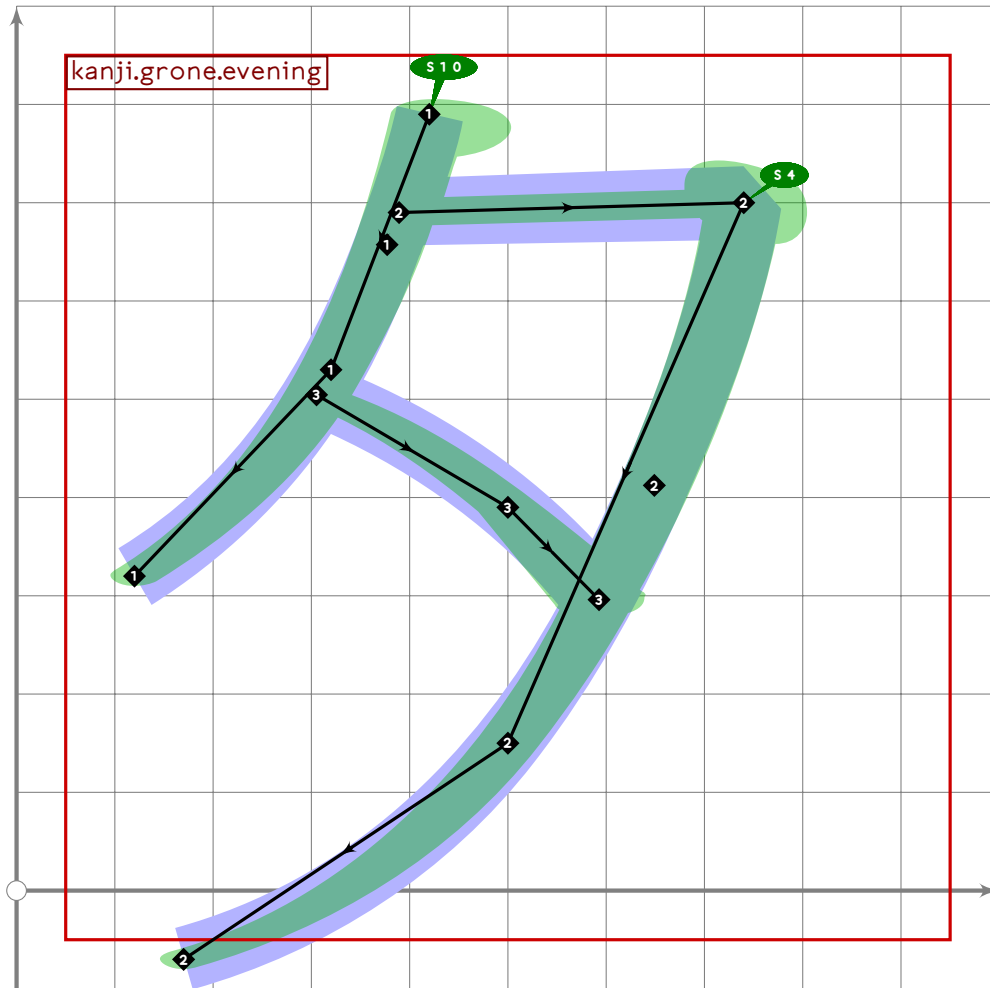


```

225
226 vardef kanji.grone.eight =
227   push_pbox_toexpand("kanji.grone.eight");
228   push_stroke((470,760)-(600,760)..tension 1.3..(690,240)..(900,-10),
229     (1.2,1.2)-(1.2,1.2)-(1.4,1.4)-(1.8,1.8));
230   set_botip(0,1,0);
231   set_boserif(0,1,4);
232   push_stroke((360,660)..(320,360)..(190,80)..(20,-30),
233     (1.6,1.6)-(1.4,1.4)-(1.3,1.3)-(0.88,0.88));
234   expand_pbox;
235 enddef;

```

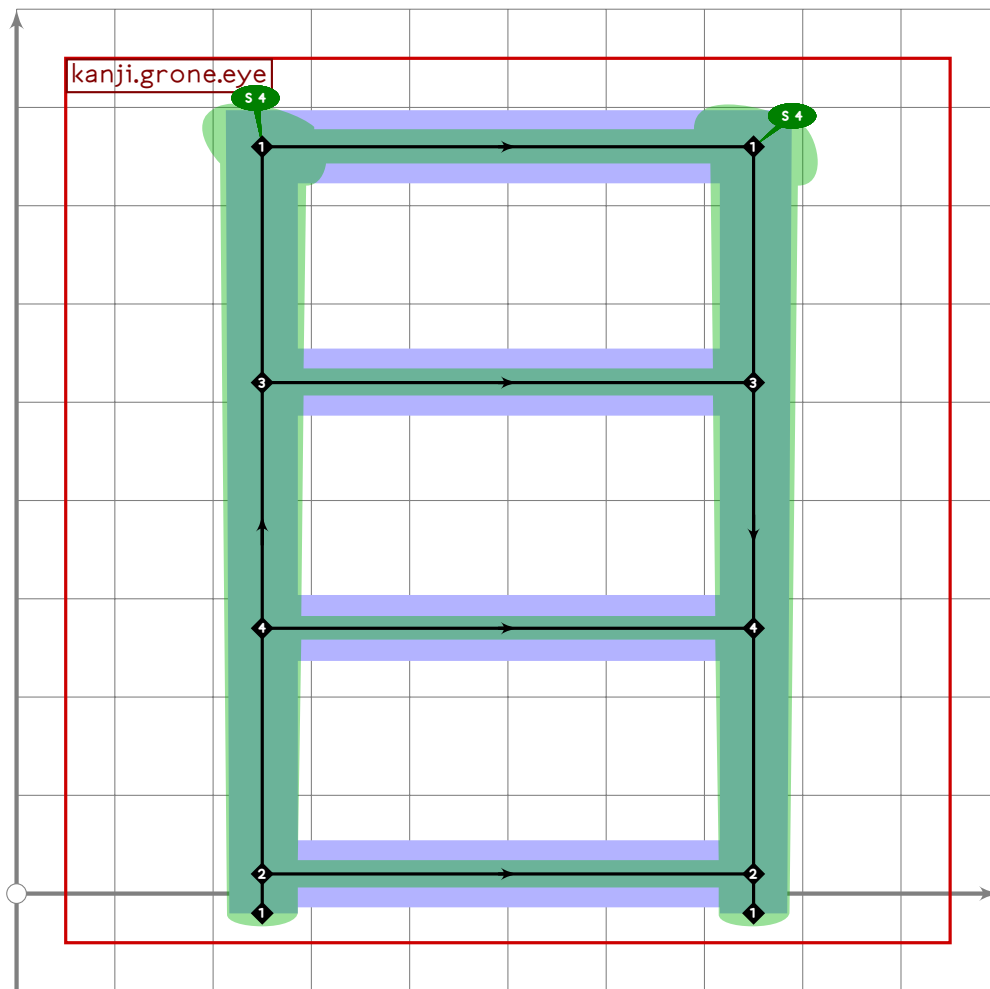
ONE



```

236
237 vardef kanji.grone.evening =
238   push_pbox_toexpand("kanji.grone.evening");
239   push_stroke((420,790)..tension 1.2..(320,530)..(120,320),
240     (1.6,1.6)–(1.5,1.5)–(1.2,1.2));
241   set_boserif(0,0,10);
242   push_stroke(
243     (get_strokep(0) intersectionpoint ((-infinity,690)–(infinity,690)))–
244     (740,700)..tension 1.2..(500,150)..(170,70),
245     (1.5,1.5)–(1.6,1.6)–(1.4,1.4)–(1.2,1.2));
246   set_botip(0,1,0);
247   set_boserif(0,1,4);
248   push_stroke(
249     (point 1.1 of get_strokep(-1))..(500,390)..(point 1.7 of get_strokep(0)),
250     (1.2,1.2)–(1.4,1.4)–(1.8,1.8));
251   expand_pbox;
252 enddef;

```

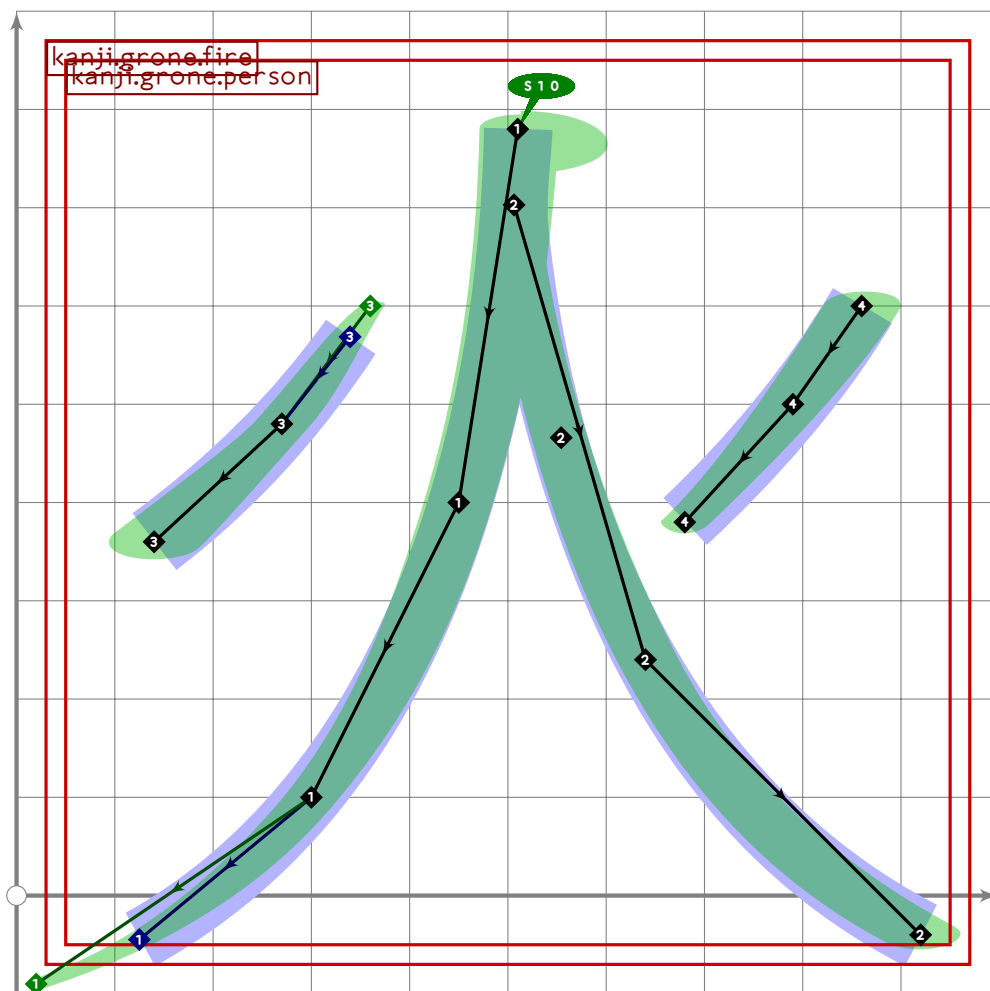



```

253
254 vardef kanji.grone.eye =
255   push_pbox_toexpand("kanji.grone.eye");
256   build_kanji.box((250,760),(750,20));
257   push_stroke((250,520)–(750,520),
258     (1.5,1.5)–(1.5,1.5));
259   push_stroke((250,270)–(750,270),
260     (1.4,1.4)–(1.4,1.4));
261   expand_pbox;
262 enddef;

```

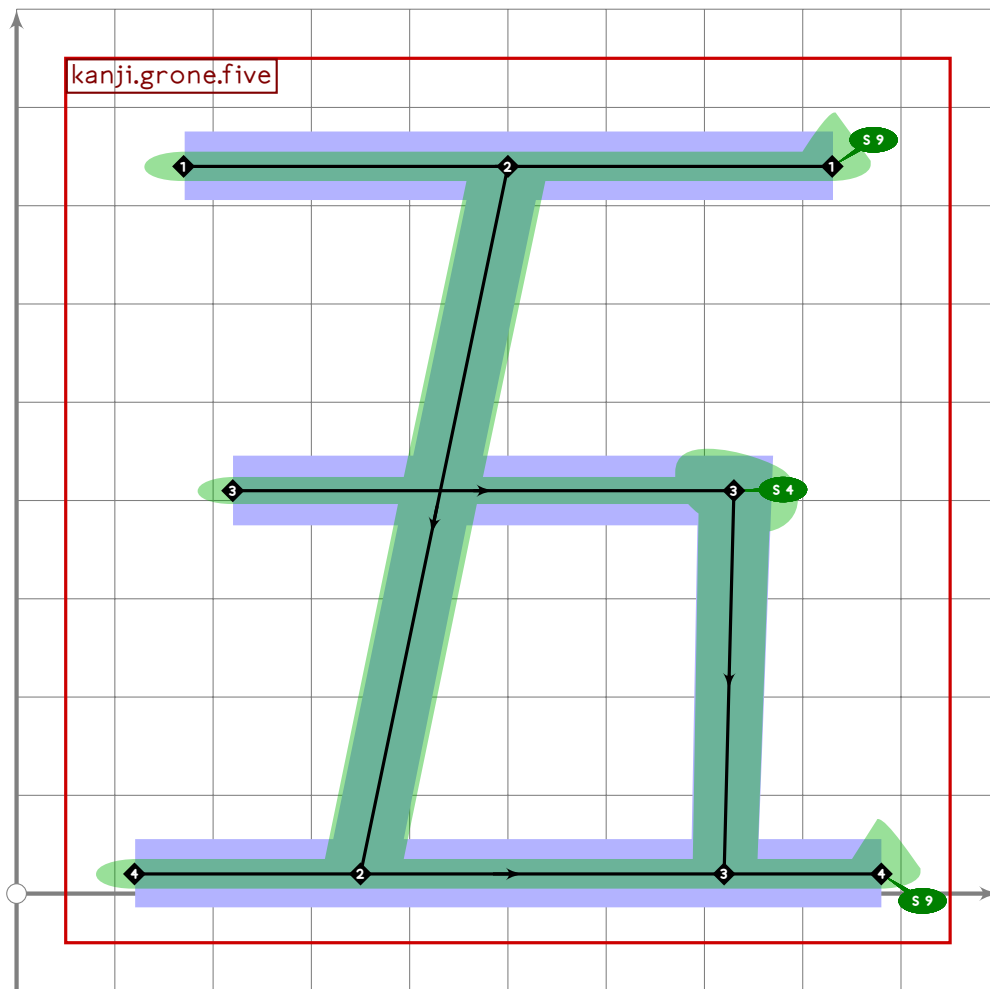
ONE



```

263
264 vardef kanji.grone.fire =
265   push_pbox_toexpand("kanji.grone.fire");
266   kanji.grone.person;
267   push_stroke((360,600)..(270,480)..(140,360),
268     (0,0,9)-(1.3,1.3)-(1.8,1.8));
269   push_stroke((860,600)..(790,500)..(680,380),
270     (1.6,1.6)-(1.4,1.4)-(1.2,1.2));
271   expand_pbox;
272 enddef;

```



```

273
274 vardef kanji.grone.five =
275   push_pbox_toexpand("kanji.grone.five");
276   push_stroke((170,740)–(830,740),
277     (1.6,1.6)–(1.6,1.6));
278   set_boserif(0,1,9);
279   push_stroke((500,740)–(350,20),
280     (1.6,1.6)–(1.6,1.6));
281   push_stroke((220,410)–(730,410)–(720,20),
282     (1.5,1.5)–(1.5,1.5)–(1.4,1.4));
283   set_boserif(0,1,4);
284   set_botip(0,1,1);
285   push_stroke((120,20)–(880,20),
286     (1.6,1.6)–(1.6,1.6));
287   set_boserif(0,1,9);
288   expand_pbox;
289 enddef;
290
291 vardef kanji.grone_helper.foot =
292   push_pbox_toexpand("kanji.grone_helper.foot");
293   push_stroke((270,330)..tension 1.3..(190,100)..(60,-50),

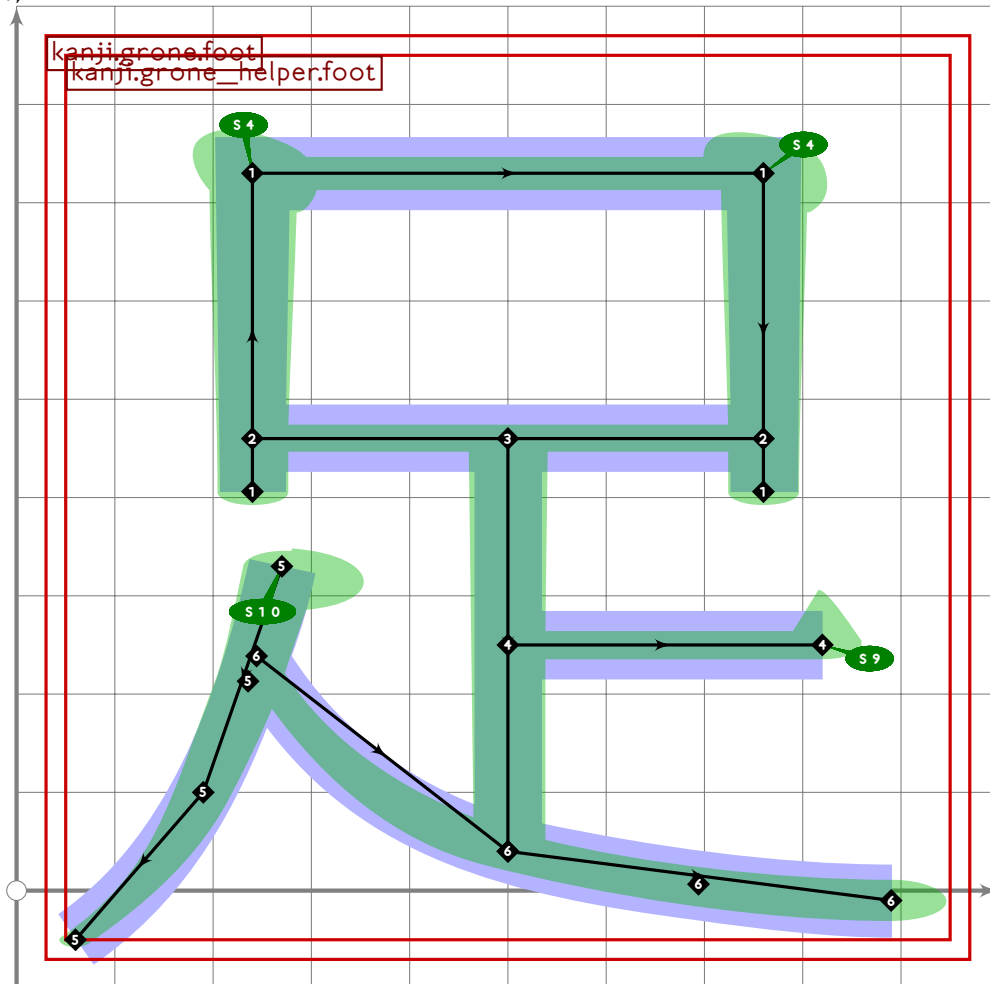
```

ONE

```

294 (1,6,1,6)-(1,3,1,3)-(1,1));
295 set_boserif(0,0,10);
296 push_stroke((point 0.4 of get_stroke(0)).(500,40)..tension 1.5..(890,-10),
297 (1,1)-(1,7,1,7)-(2,2));
298 expand_pbox;
299 enddef;

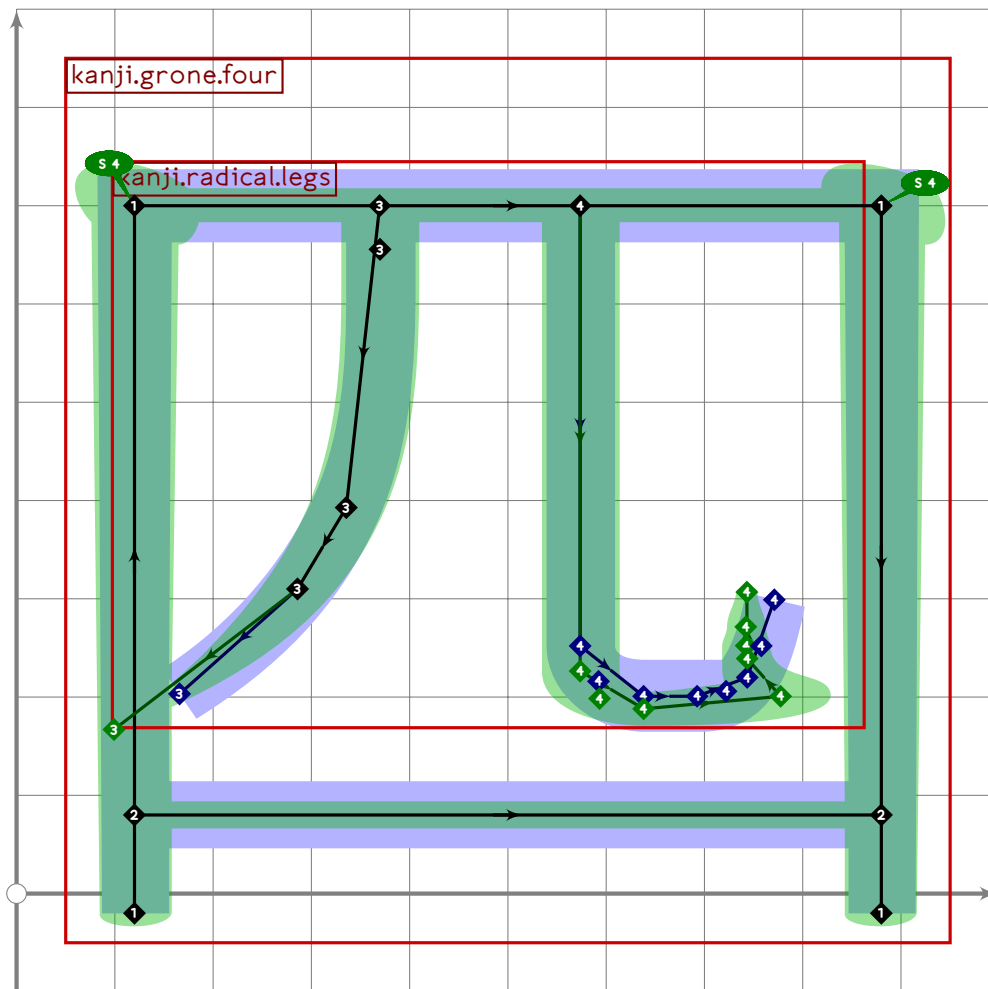
```



```

300
301 vardef kanji.grone.foot =
302   push_pbox_toexpand("kanji.grone.foot");
303   build_kanji.box((240,730),(760,460));
304   push_stroke((500,460)-(500,40),(1,6,1,6)-(1,5,1,5));
305   push_stroke((500,250)-(820,250),(1,5,1,5)-(1,6,1,6));
306   set_boserif(0,1,9);
307   kanji.grone_helper.foot;
308   expand_pbox;
309 enddef;

```

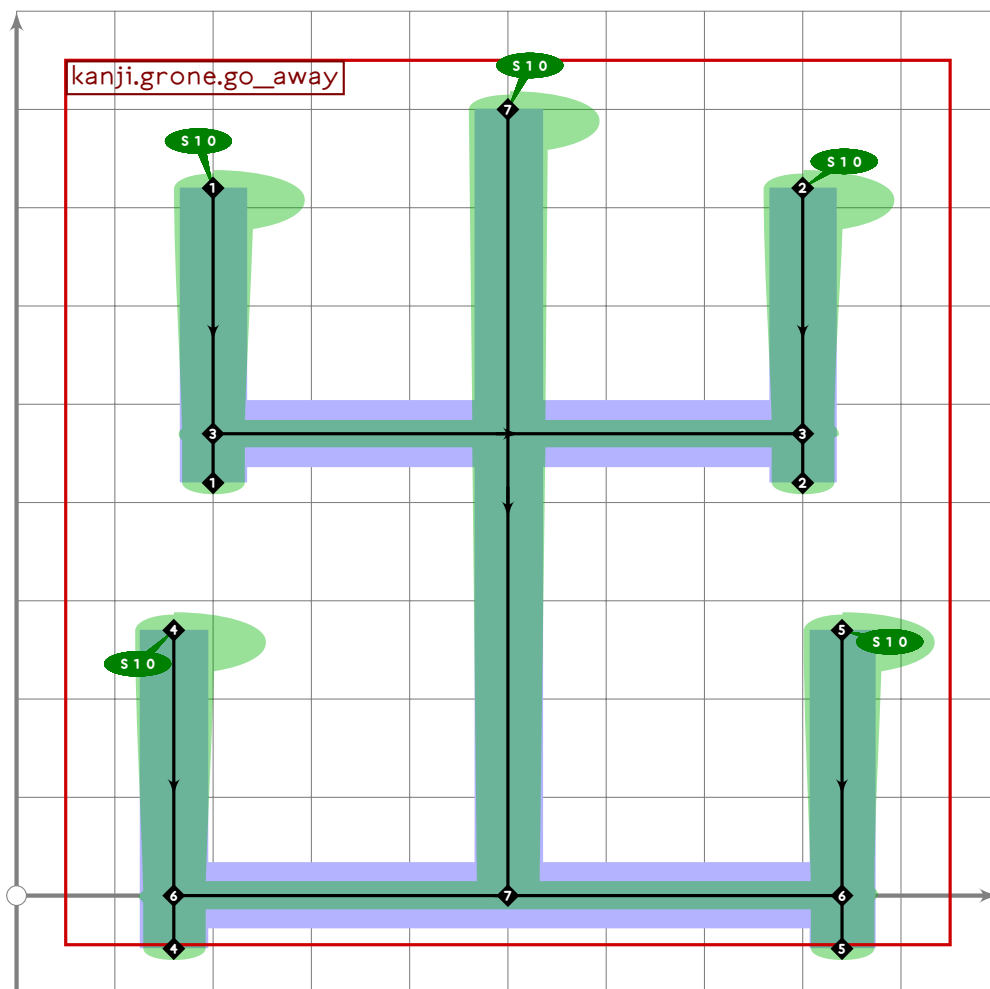


```

310
311 vardef kanji.grone.four =
312   push_pbox_toexpand("kanji.grone.four");
313   perl_structure:=perl_structure&"eids.u2FF4,u56D7,u513F";
314   build_kanji.box((120,700),(880,80));
315   tsu_xform
316     (identity shifted (-500,-780) xyscaled (0.85,0.64) shifted (480,700))
317     (kanji.radical.legs);
318   expand_pbox;
319 enddef;

```

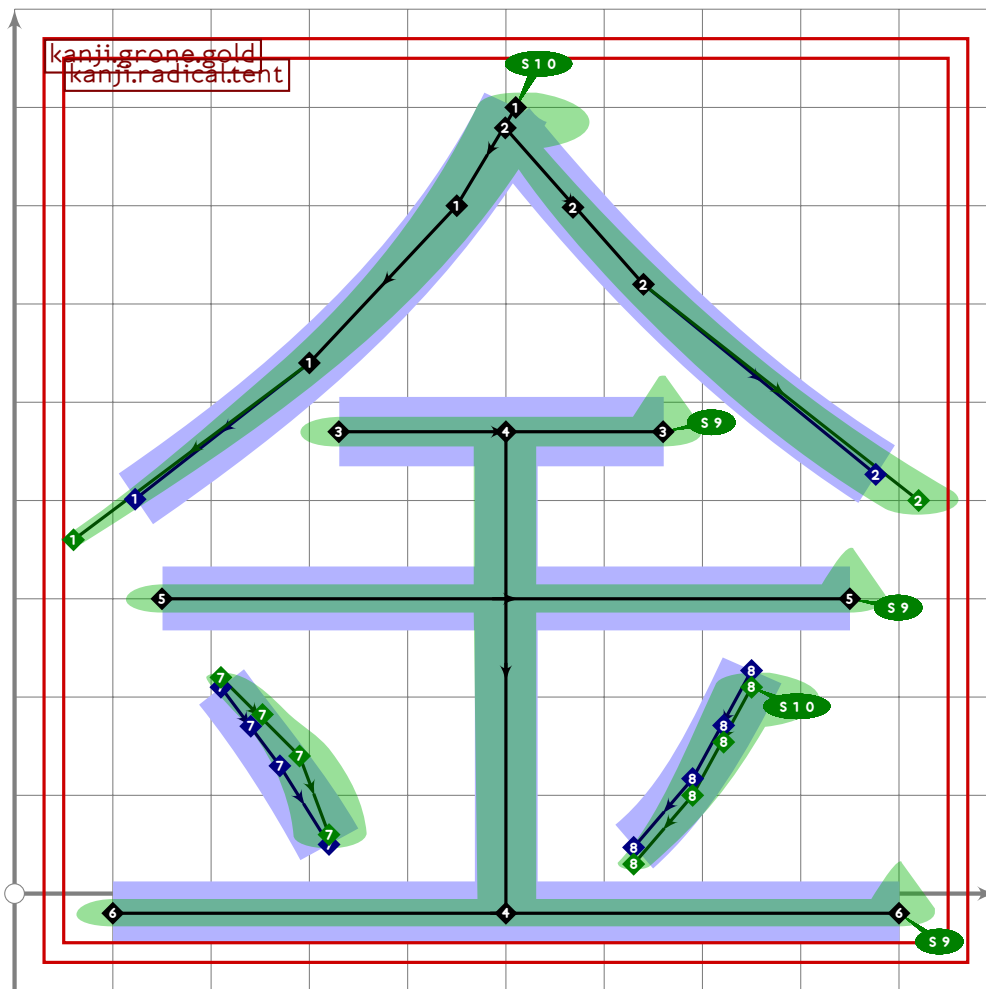
ONE



```

320
321 vardef kanji.grone.go_away =
322   push_pbox_toexpand("KANJI.GRONE.GO_AWAY");
323   build_kanji.cup((200,720),(800,470));
324   build_kanji.cup((160,270),(840,0));
325   push_stroke((500,800)-(500,0),
326     (1,6,1,6)-(1,4,1,4));
327   set_boserif(0,0,10);
328   expand_pbox;
329 enddef;

```

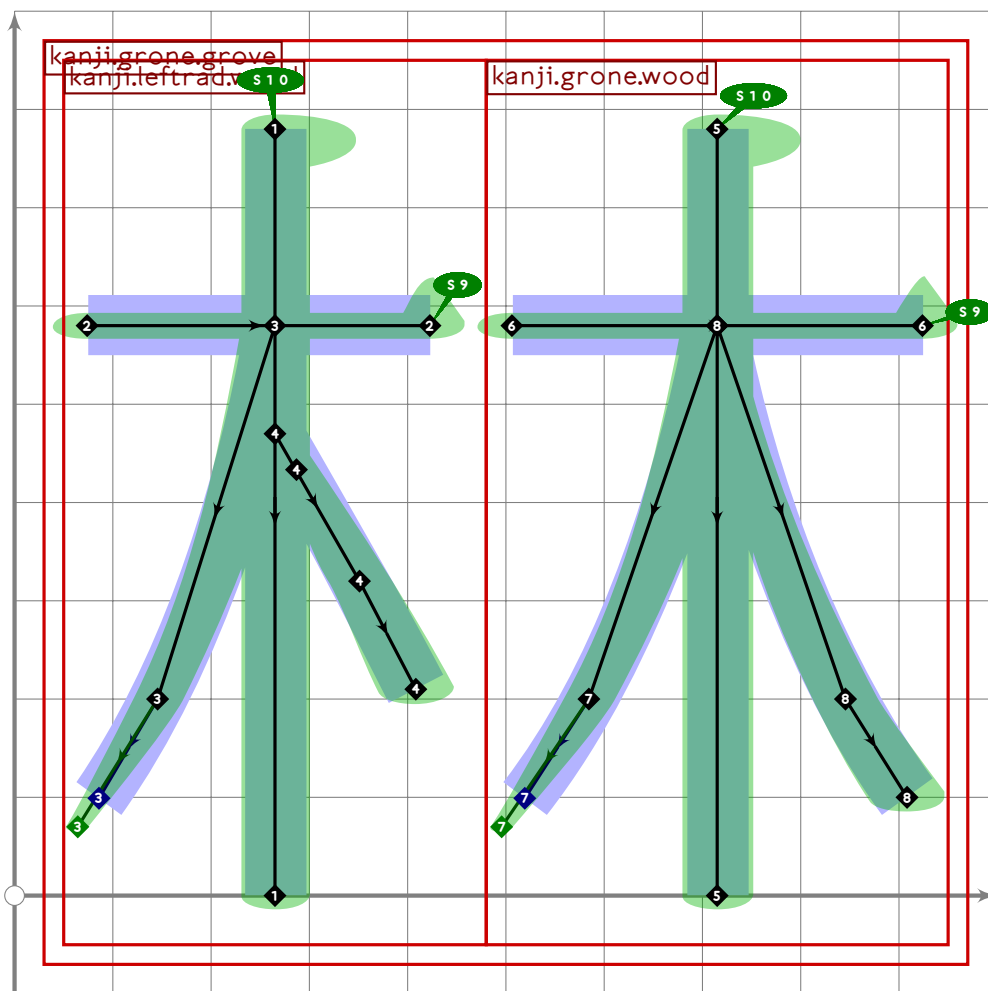


```

330
331 vardef kanji.grone.gold =
332   push_pbox_toexpand("kanji.grone.gold");
333   kanji.radical.tent;
334   push_stroke((500,470)-(500,20),(1.5,1.5)-(1.4,1.4));
335   push_stroke((150,300)-(850,300),(1.6,1.6)-(1.6,1.6));
336   set_boserif(0,1,9);
337   push_stroke((100,20)-(900,20),(1.6,1.6)-(1.6,1.6));
338   set_boserif(0,1,9);
339   push_stroke(((210,220)..tension 1.3..(270+20*mincho,140)..(320,60))
340     shifted ((1-mincho)*10*down),
341     (1,1)-(1.5,1.5)-(1.6,1.6));
342   push_stroke(((750,210)..tension 1.3..(690,100)..(630,30))
343     shifted ((1-mincho)*17*up),
344     (1.6,1.6)-(1.3,1.3)-(1,1));
345   set_boserif(0,0,10);
346   for i=-4 upto 0: set_bosize(i,93); endfor;
347   expand_pbox;
348 enddef;

```

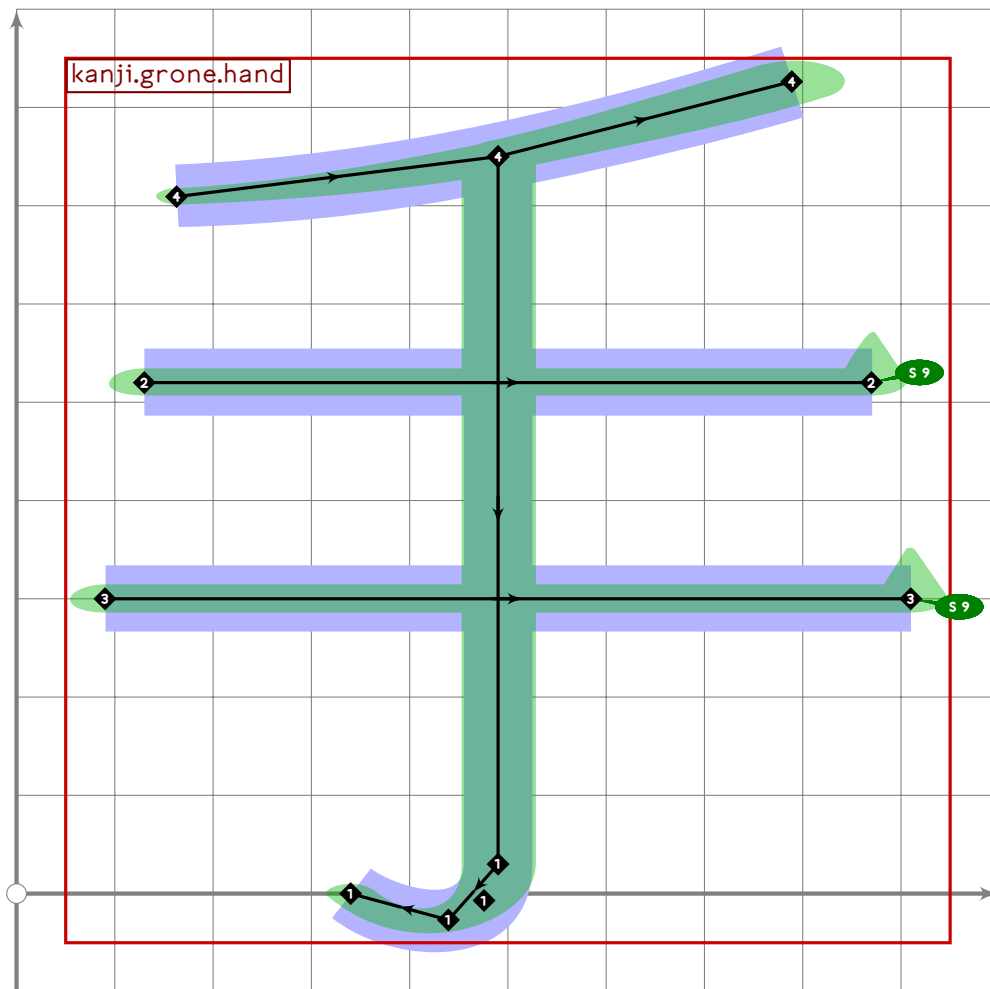
ONE



```

349
350 vardef kanji.grone.grove =
351   push_pbox_toexpand("kanji.grone.grove");
352   build_kanji.lr(480,0)
353     (kanji.leftrad.wood)
354     (kanji.grone.wood);
355   expand_pbox;
356 enddef;

```

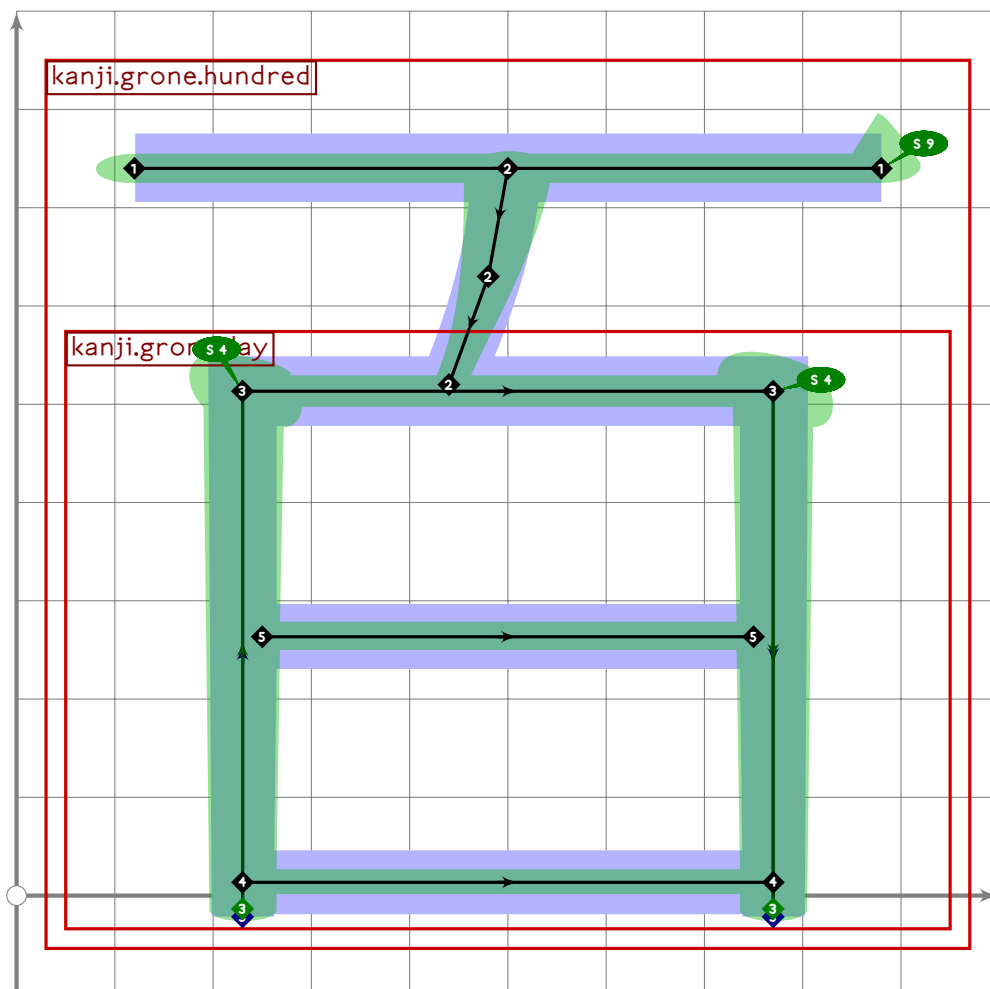
ONE

```

357
358 vardef kanji.grone.hand =
359   push_pbox_toexpand("kanji.grone.hand");
360   build_kanji.add_beret(
361     push_stroke((490,750),(1.6,1.6));
362     build_kanji.add_jtail(0);
363     push_stroke((130,520)-(870,520),(1.5,1.5)-(1.5,1.5));
364     set_boserif(0,1,9);
365     push_stroke((90,300)-(910,300),(1.5,1.5)-(1.5,1.5));
366     set_boserif(0,1,9);
367   );
368   expand_pbox;
369 enddef;

```

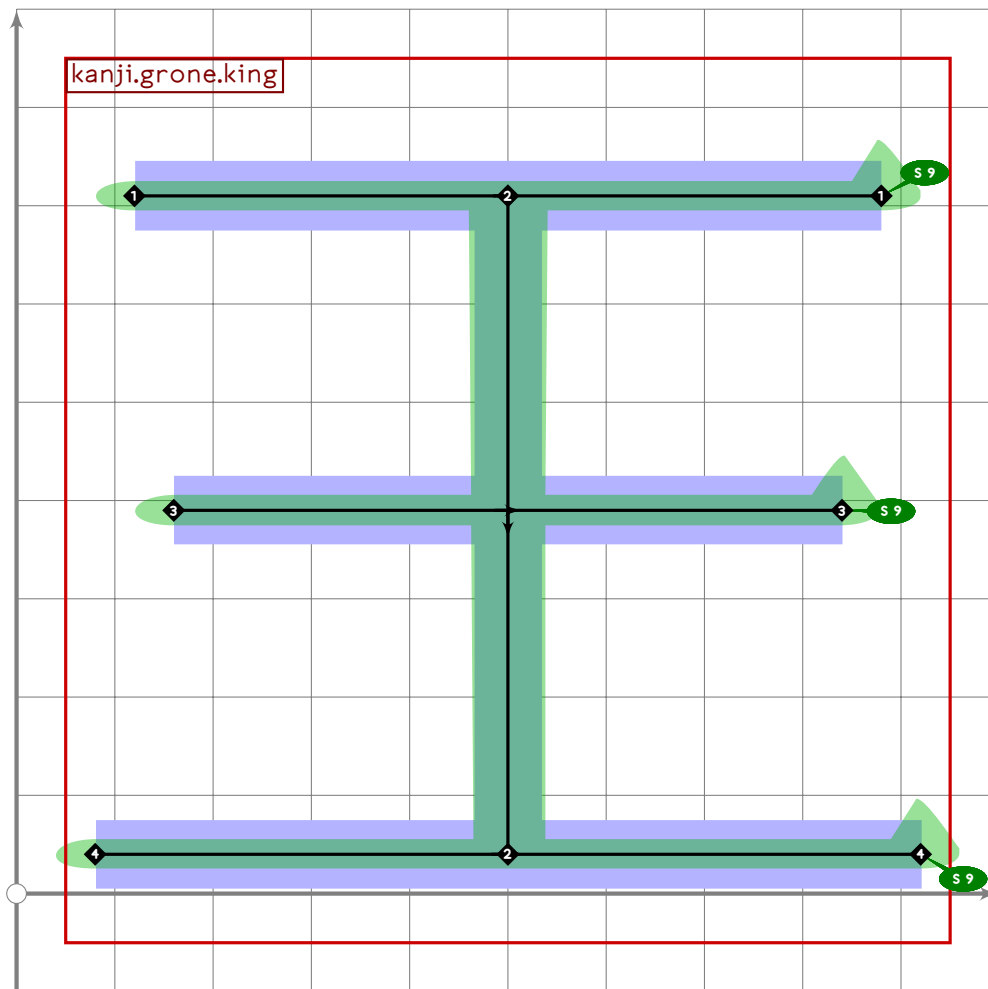
ONE



```

370
371 vardef kanji.grone.hundred =
372   push_pbox_toexpand("kanji.grone.hundred");
373   push_stroke((120,740)–(880,740),
374     (1.6,1.6)–(1.6,1.6));
375   set_boserif(0,1,9);
376   push_stroke((500,740)..(480,630)..(440,520),
377     (1.7,1.7)–(1.3,1.3)–(1,1));
378   tsu_xform(identity yscaled (520/770))(kanji.grone.day);
379   expand_pbox;
380 enddef;

```

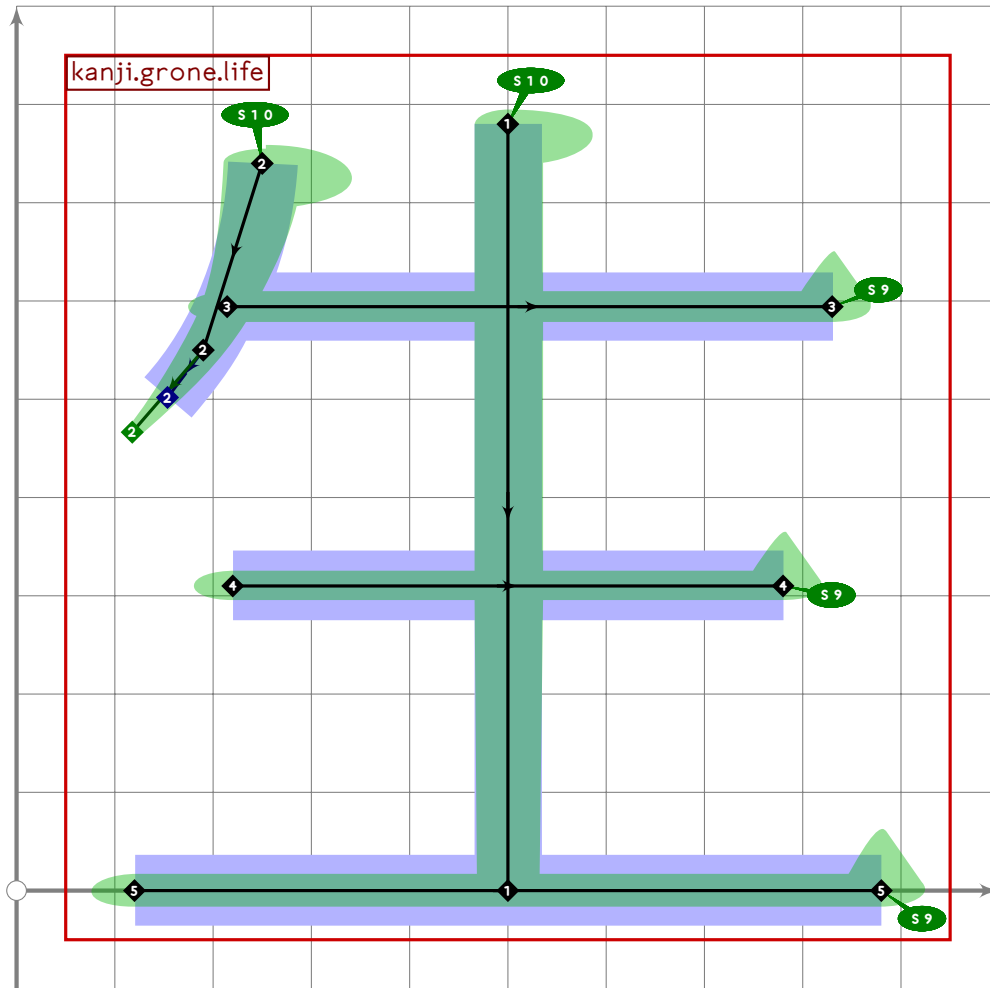


```

381
382 vardef kanji.grone.king =
383   push_pbox_toexpand("kanji.grone.king");
384   push_stroke((120,710)–(880,710),
385     (1.6,1.6)–(1.6,1.6));
386   set_boserif(0,1,9);
387   push_stroke((500,710)–(500,40),
388     (1.6,1.6)–(1.5,1.5));
389   push_stroke((160,390)–(840,390),
390     (1.6,1.6)–(1.6,1.6));
391   set_boserif(0,1,9);
392   push_stroke((80,40)–(920,40),
393     (1.6,1.6)–(1.6,1.6));
394   set_boserif(0,1,9);
395   expand_pbox;
396 enddef;

```

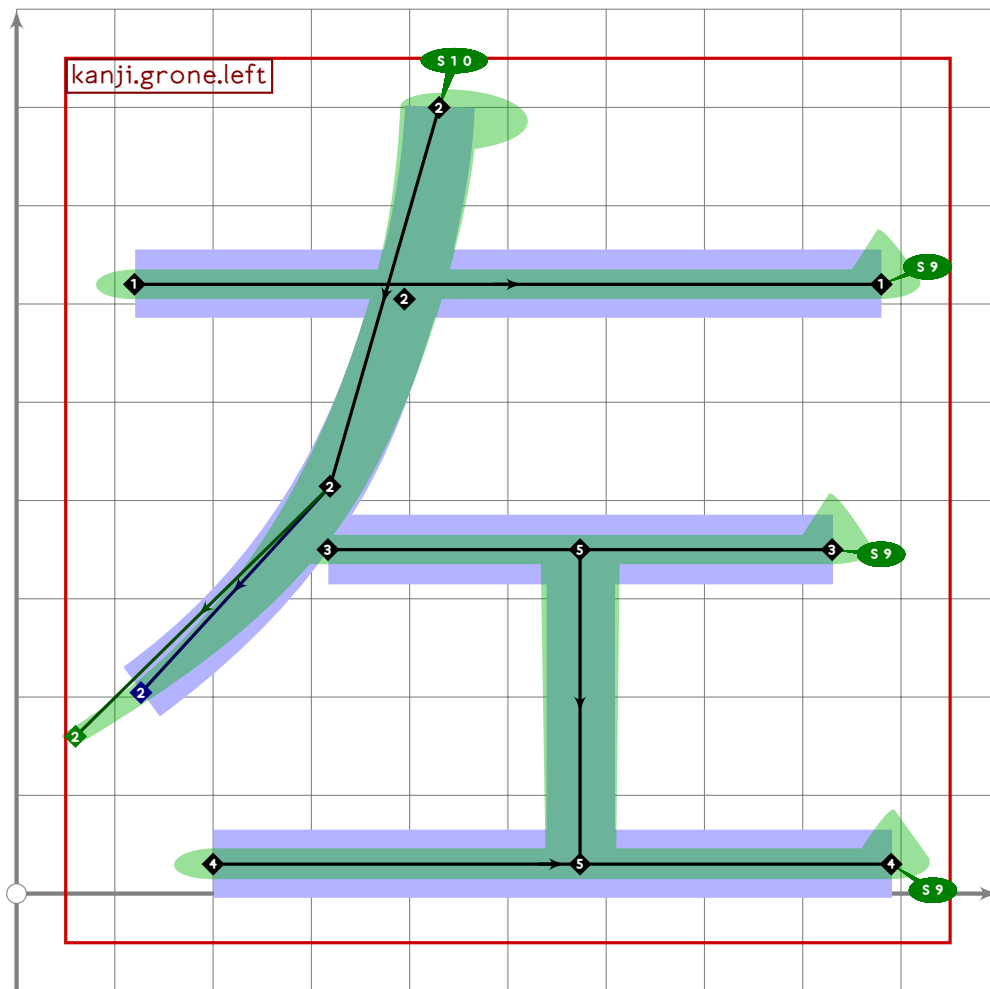
ONE



```

397
398 vardef kanji.grone.life =
399   push_pbox_toexpand("KANJI.GRONE.LIFE");
400   push_stroke((500,780)-(500,0),
401     (1.5,1.5)-(1.4,1.4));
402   set_boserif(0,0,10);
403   push_stroke((250,740)..(190,550)..(110,460),
404     (1.6,1.6)-(1.2,1.2)-(0.8,0.8));
405   set_boserif(0,0,10);
406   push_stroke((point 0.75 of get_stroke(0))-
407     (830,y part point 0.75 of get_stroke(0)),
408     (1.6,1.6)-(1.6,1.6));
409   set_boserif(0,1,9);
410   push_stroke((220,310)-(780,310),
411     (1.6,1.6)-(1.6,1.6));
412   set_boserif(0,1,9);
413   push_stroke((120,0)-(880,0),
414     (1.7,1.7)-(1.7,1.7));
415   set_boserif(0,1,9);
416   expand_pbox;
417 enddef;

```

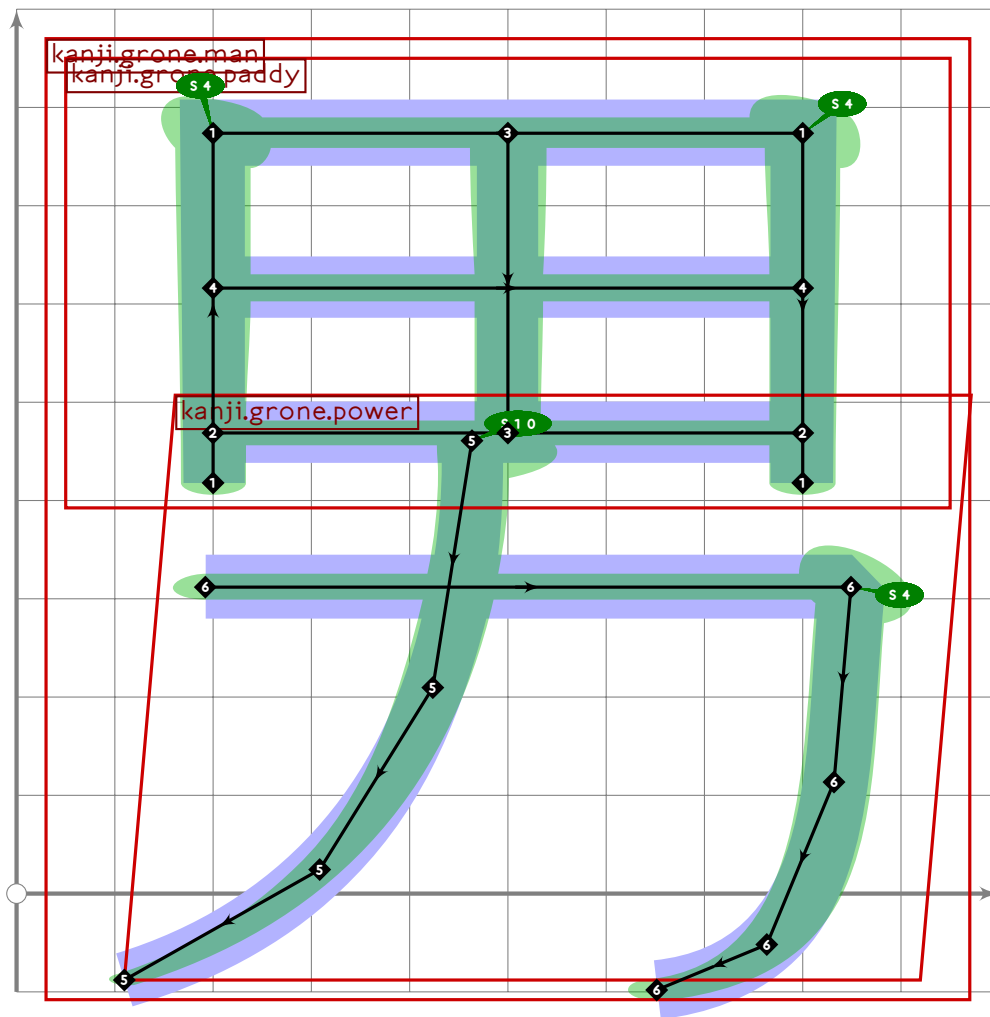


```

418
419 vardef kanji.grone.left =
420   push_pbox_toexpand("kanji.grone.left");
421   build_kanji.lean_to((430,160));
422   push_stroke(
423     (((0,350)-(1000,350)) intersectionpoint get_stroke(0)+(40,0))..
424     (830,350),
425     (1.6,1.6)-(1.6,1.6));
426   set_boserif(0,1,9);
427   push_stroke((200,30)..(890,30),
428     (1.6,1.6)-(1.6,1.6));
429   set_boserif(0,1,9);
430   push_stroke(
431     (point 0.5 of get_stroke(-1))-(xpart point 0.5 of get_stroke(-1),30),
432     (1.6,1.6)-(1.5,1.5));
433   expand_pbox;
434 enddef;

```

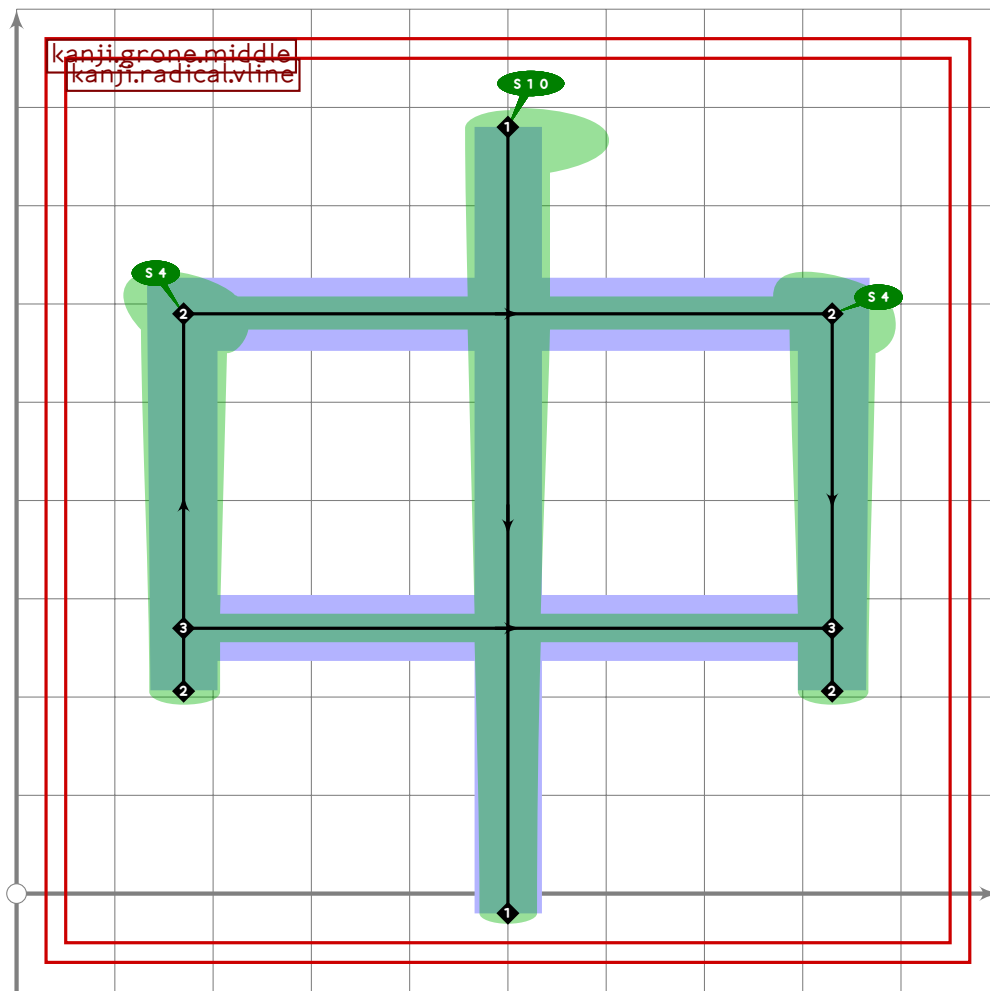
ONE



```

435
436 vardef kanji.grone.man =
437   push_pbox_toexpand("kanji.grone.man");
438   build_kanji.level(build_kanji.tb(430,75)
439     (kanji.grone.paddy)
440     (build_kanji.sscale(xyscaled (0.9,1.15) slanted 0.05 shifted (40,0))
441       (kanji.grone.power)));
442   replace_strokep(0)(oldp shifted (0,-30));
443   expand_pbox;
444 enddef;

```

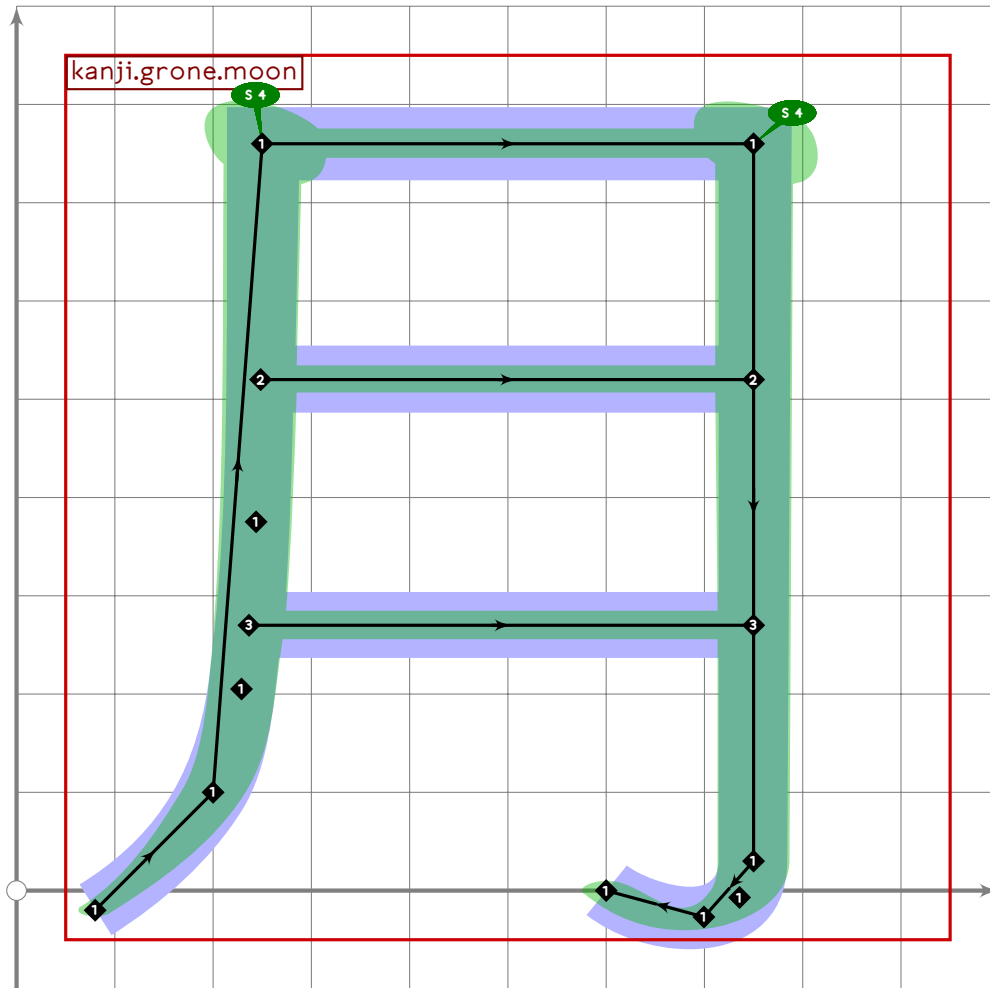


```

445
446 vardef kanji.grone.middle =
447   push_pbox_toexpand("kanji.grone.middle");
448   kanji.radical.vline;
449   build_kanji.box((170,590),(830,270));
450   expand_pbox;
451 enddef;

```

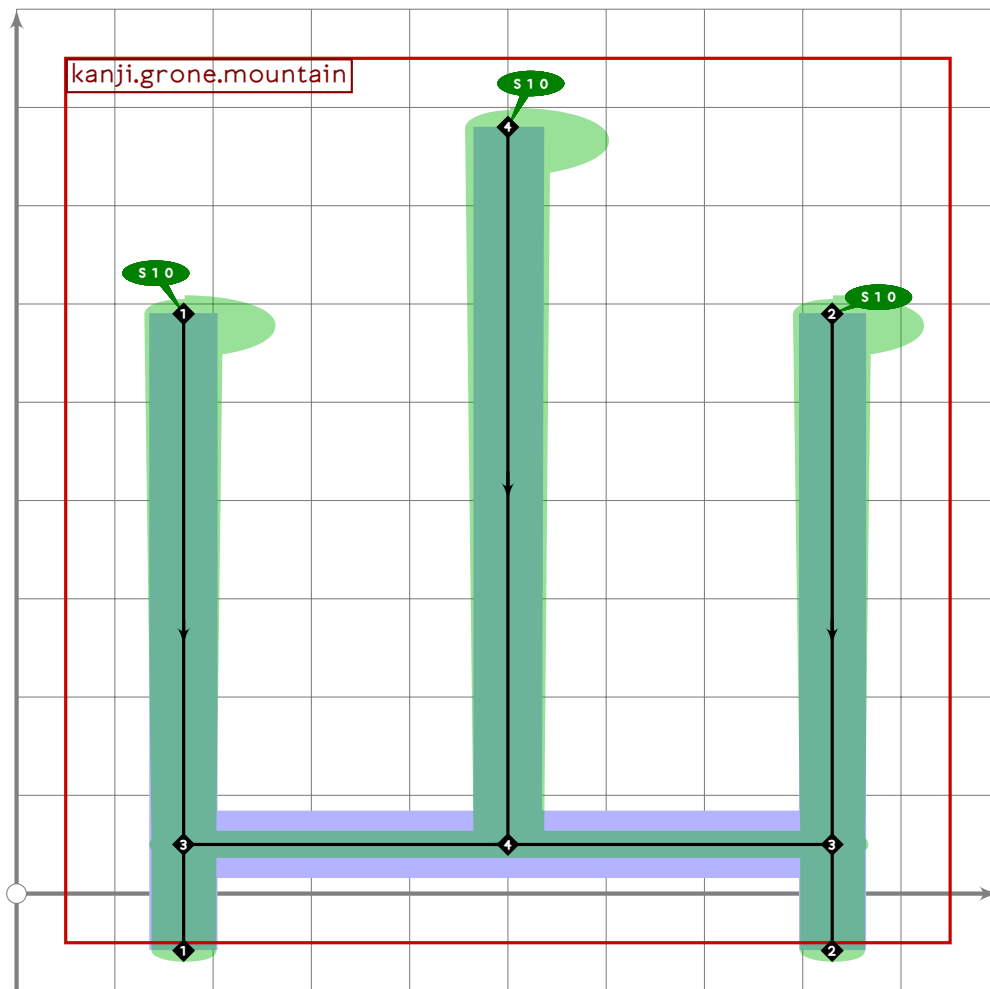
ONE



```

452
453 vardef kanji.grone.moon =
454   push_pbox_toexpand("kanji.grone.moon");
455   push_stroke((80,-20)..(200,100)...{up}(250,760)-(750,760),
456     (1,1)-(14,14)-(16,16)-(16,16));
457   build_kanji.add_jtail(0);
458   set_botip(0,2,1);
459   set_botip(0,3,1);
460   set_boserif(0,2,4);
461   set_boserif(0,3,4);
462   push_stroke(
463     (get_stroke(0) intersectionpoint ((0,520)-(1000,520)))-(750,520),
464     (1,5,1.5)-(1,5,1.5));
465   push_stroke(
466     (get_stroke(-1) intersectionpoint ((0,270)-(1000,270)))-(750,270),
467     (1,5,1.5)-(1,5,1.5));
468   expand_pbox;
469 enddef;

```

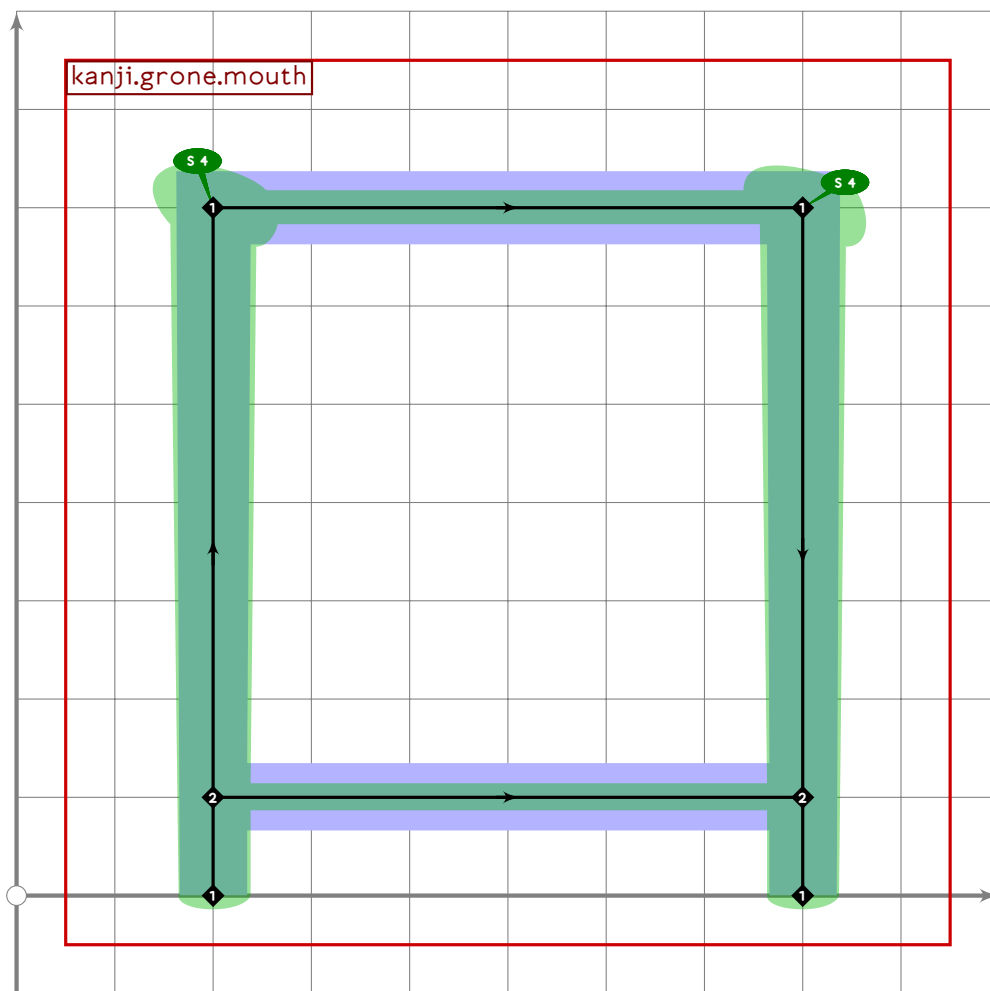
```

470
471 vardef kanji.grone.mountain =
472   push_pbox_toexpand("kanji.grone.mountain");
473   build_kanji.cup((170,590),(830,50));
474   push_stroke((500,780)-(500,50),
475     (1.7,1.7)-(1.5,1.5));
476   set_boserif(0,0,10);
477   expand_pbox;
478 enddef;

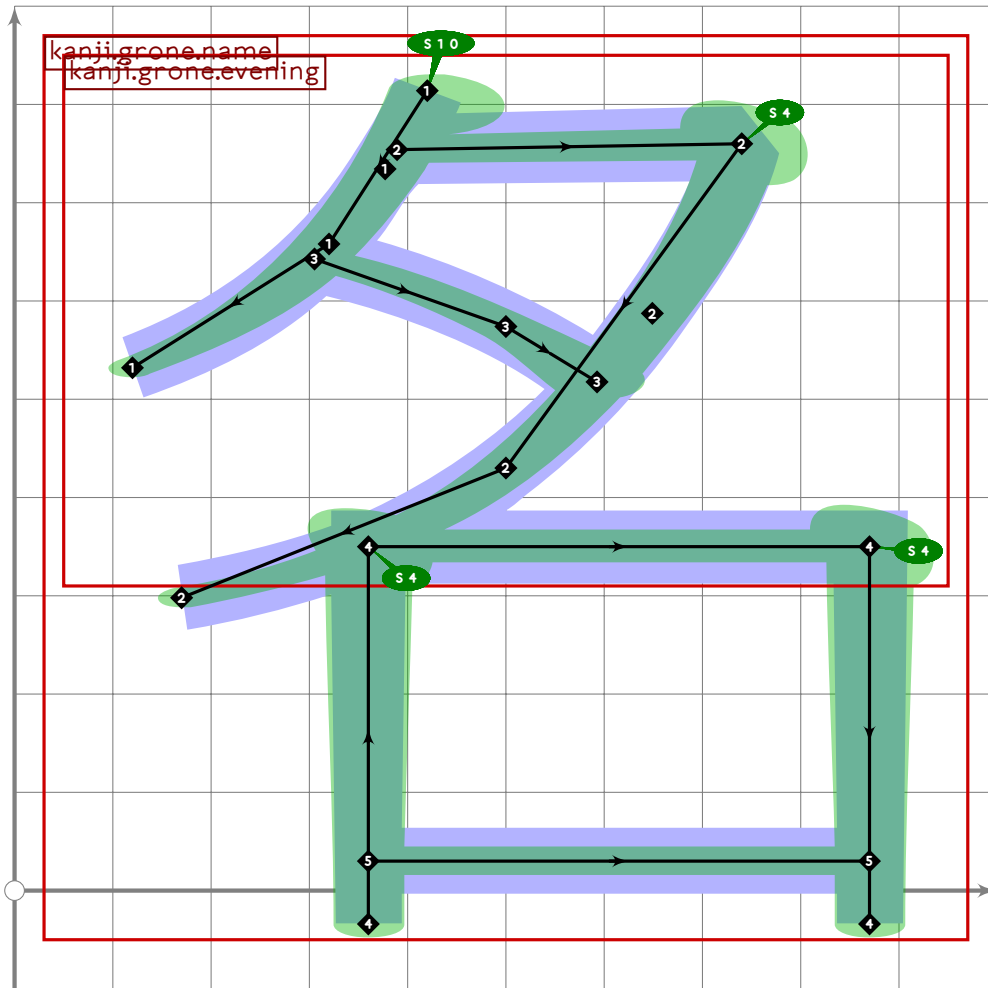
```

U+53E3
tsuku.uni53E3

ONE



```
479
480 vardef kanji.grone.mouth =
481   push_pbox_toexpand("kanji.grone.mouth");
482   build_kanji.box((200,700),(800,100));
483   expand_pbox;
484 enddef;
```

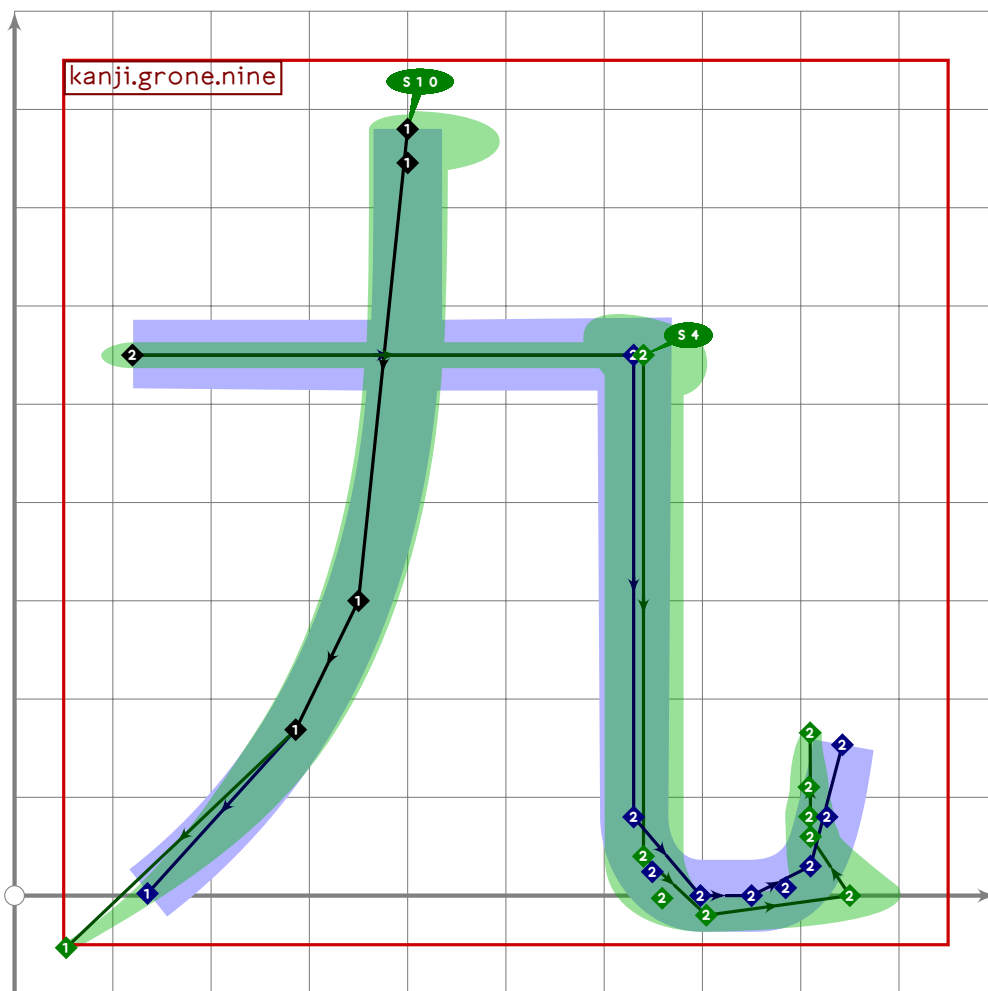


```

485
486 vardef kanji.grone.name =
487   push_pbox_toexpand("kanji.grone.name");
488   tsu_xform(identity shifted (-50,850) yscaled 0.6 shifted (50,850))
489   (kanji.grone.evening);
490   set_bosize(-2,102);
491   set_bosize(-1,102);
492   set_bosize(0,102);
493   build_kanji.box((360,350),(870,30));
494   expand_pbox;
495 enddef;

```

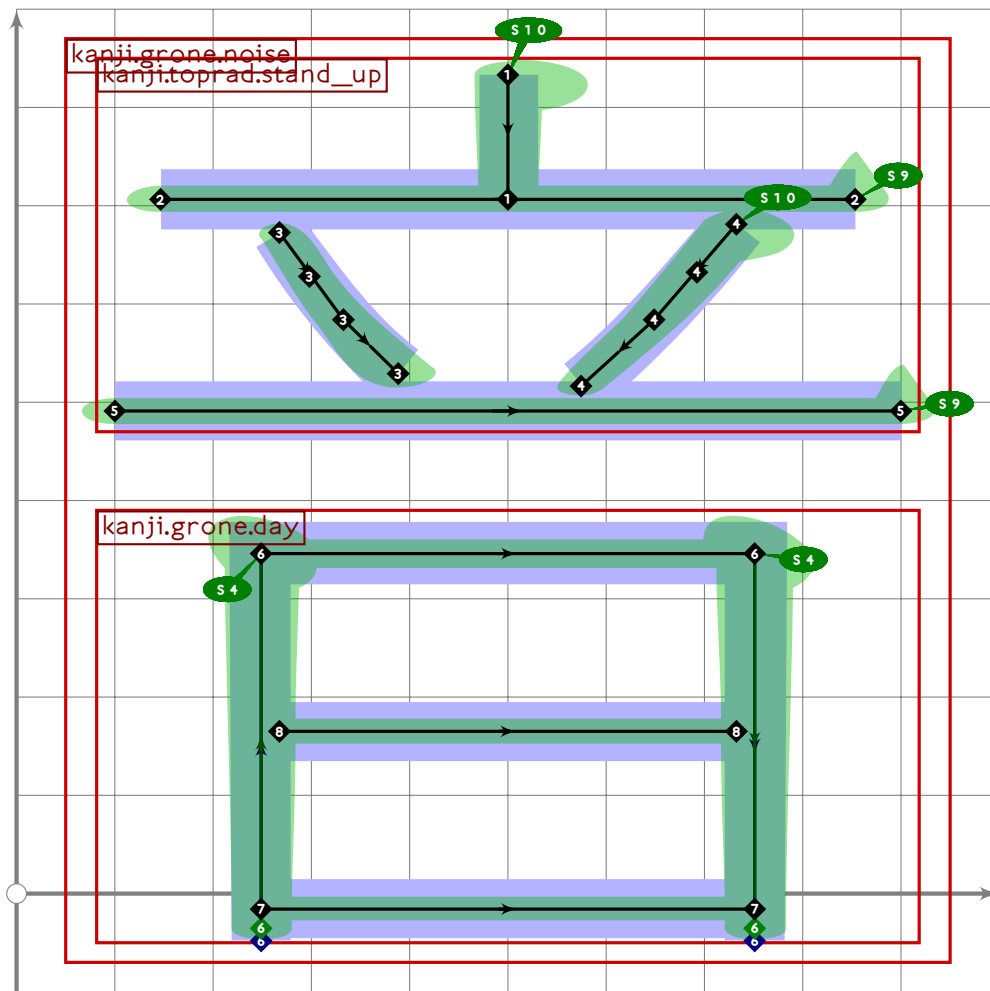
ONE



```

496
497 vardef kanji.grone.nine =
498   push_pbox_toexpand("kanji.grone.nine");
499   push_stroke((400,780){down}..(350,300)..(40,-60),
500     (1.6,1.6)-(1.6,1.6)-(1.6,1.6)-(0.8,0.7));
501   replace_strokep(0){insert_nodes(oldp)(1.3)};
502   set_boserif(0,0,10);
503   push_stroke((120,550)-(630+10*mincho,550),
504     (1.4,1.4)-(1.6,1.6));
505   build_kanji.add_ltail(0);
506   set_botip(0,1,1);
507   set_boserif(0,1,4);
508   expand_pbox;
509 enddef;

```



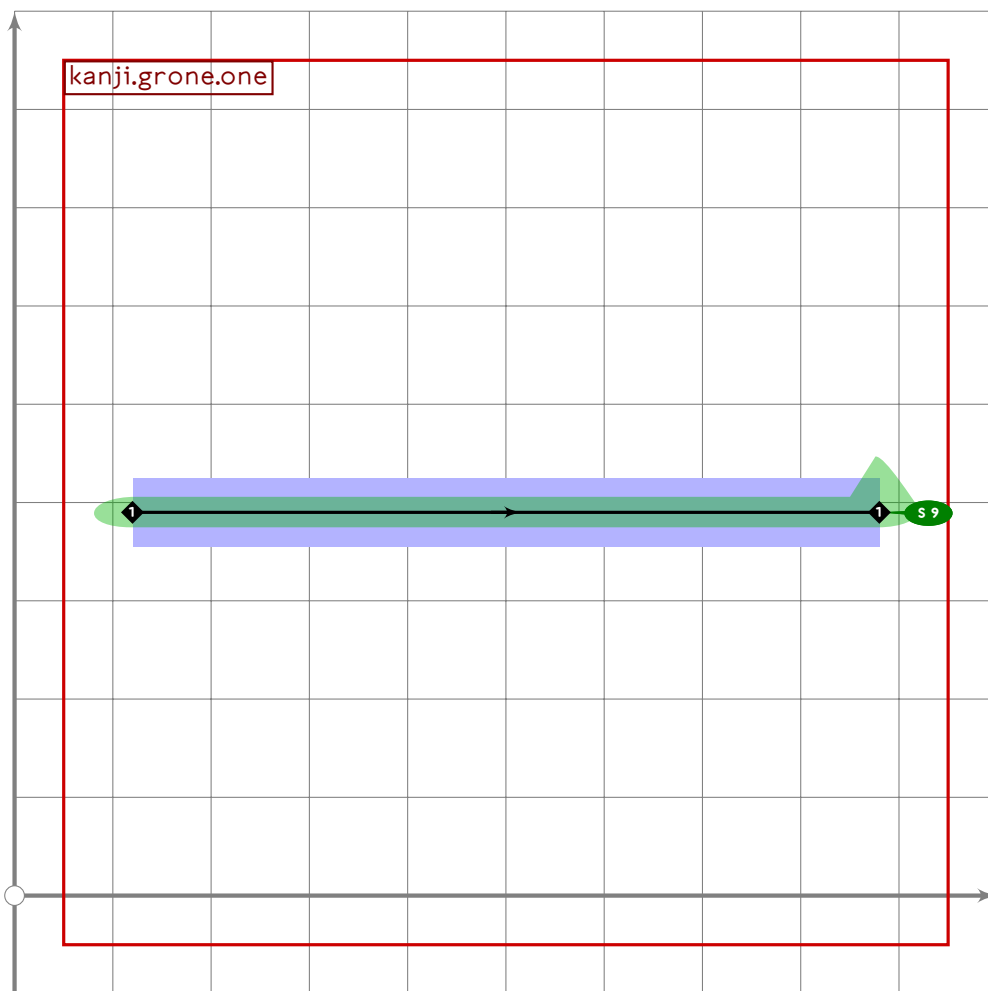
```

510
511 vardef kanji.grone.noise =
512   push_pbox_toexpand("kanji.grone.noise");
513   build_kanji.level(build_kanji.sscale(xscaled 0.93)(
514     build_kanji.tb(430,80)
515       (kanji.toprad.stand_up)
516       (kanji.grone.day)));
517   expand_pbox;
518 enddef;

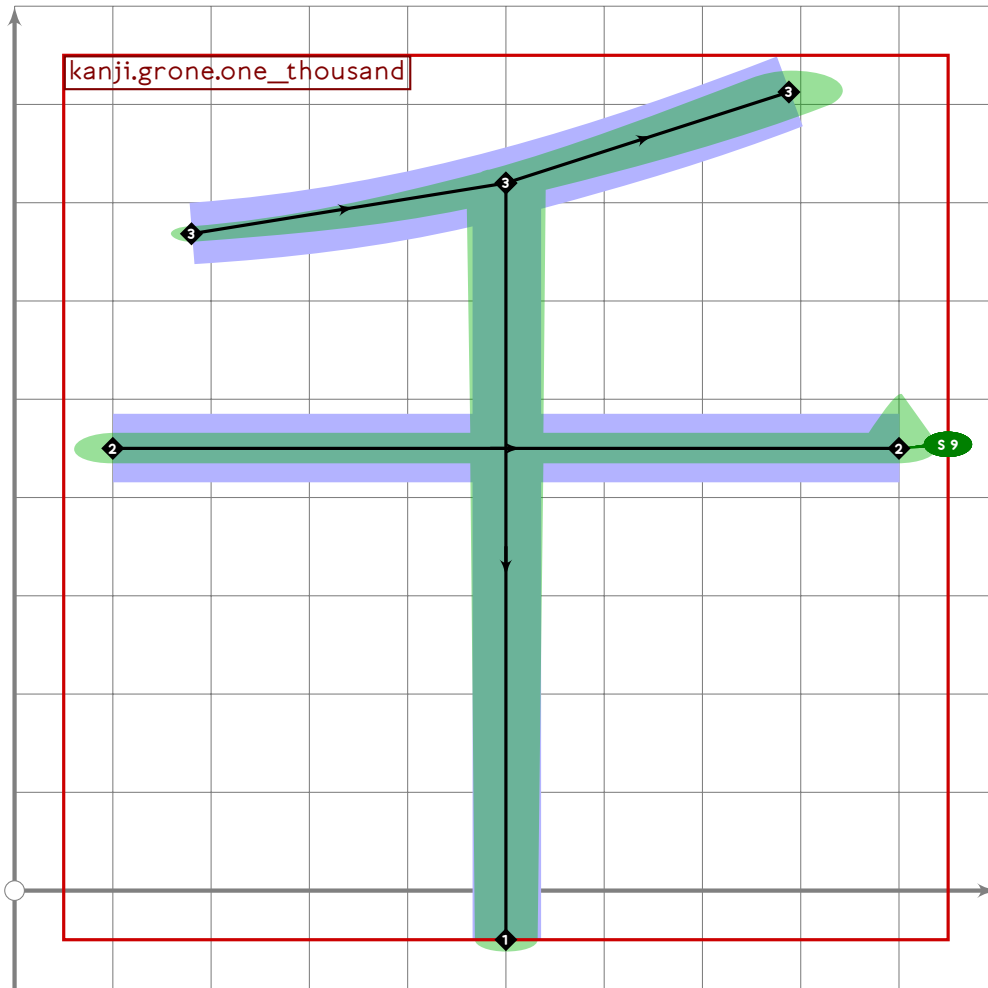
```

U+4E00
tsuku.uni4E00

ONE



```
519
520 vardef kanji.grone.one =
521   push_pbox_toexpand("kanji.grone.one");
522   push_stroke((120,390)-(880,390),
523     (1.6,1.6)-(1.6,1.6));
524   set_boserif(0,1,9);
525   expand_pbox;
526 enddef;
```



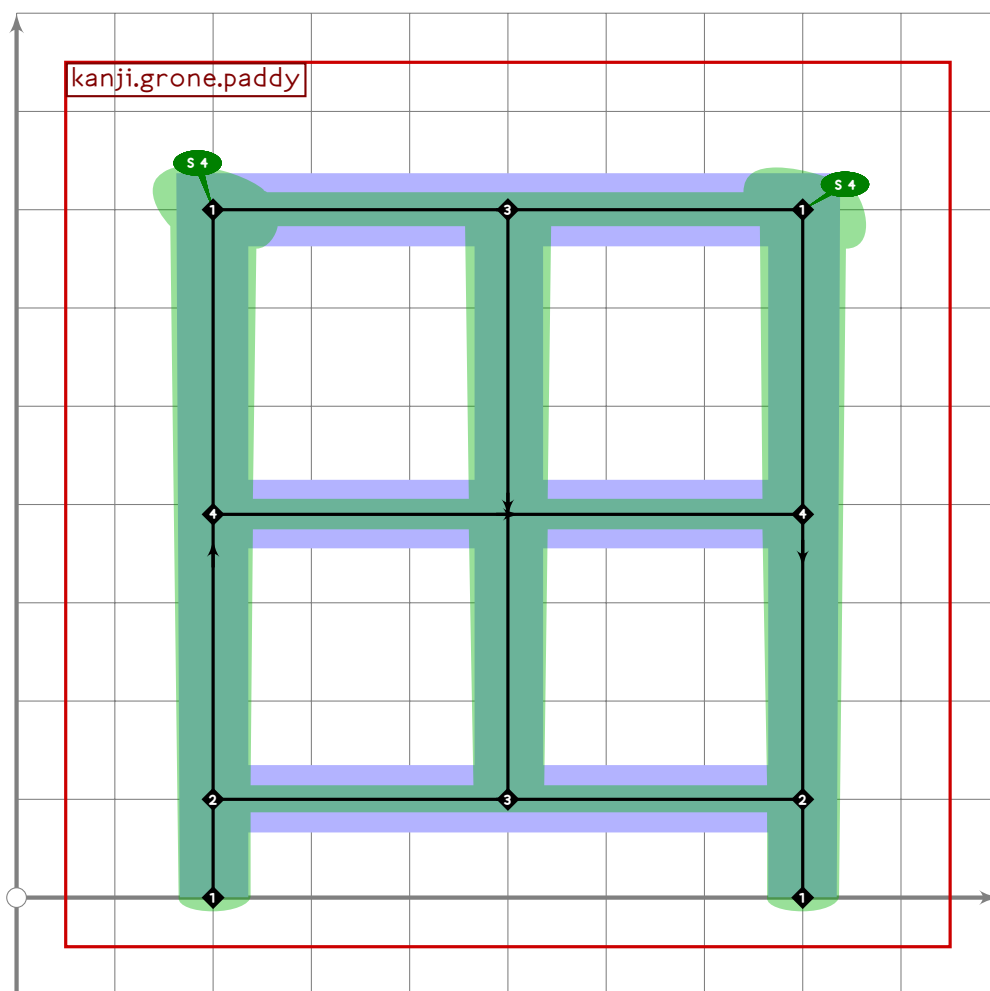
ONE

```

527
528 vardef kanji.grone.one_thousand =
529   push_pbox_toexpand("kanji.grone.one_thousand");
530   build_kanji.add_beret(
531     push_stroke((500,720)-(500,-50),(1.6,1.6)-(1.4,1.4));
532     push_stroke((100,450)-(900,450),(1.6,1.6)-(1.6,1.6));
533     set_boserif(0,1,9);
534   );
535   expand_pbox;
536 enddef;

```

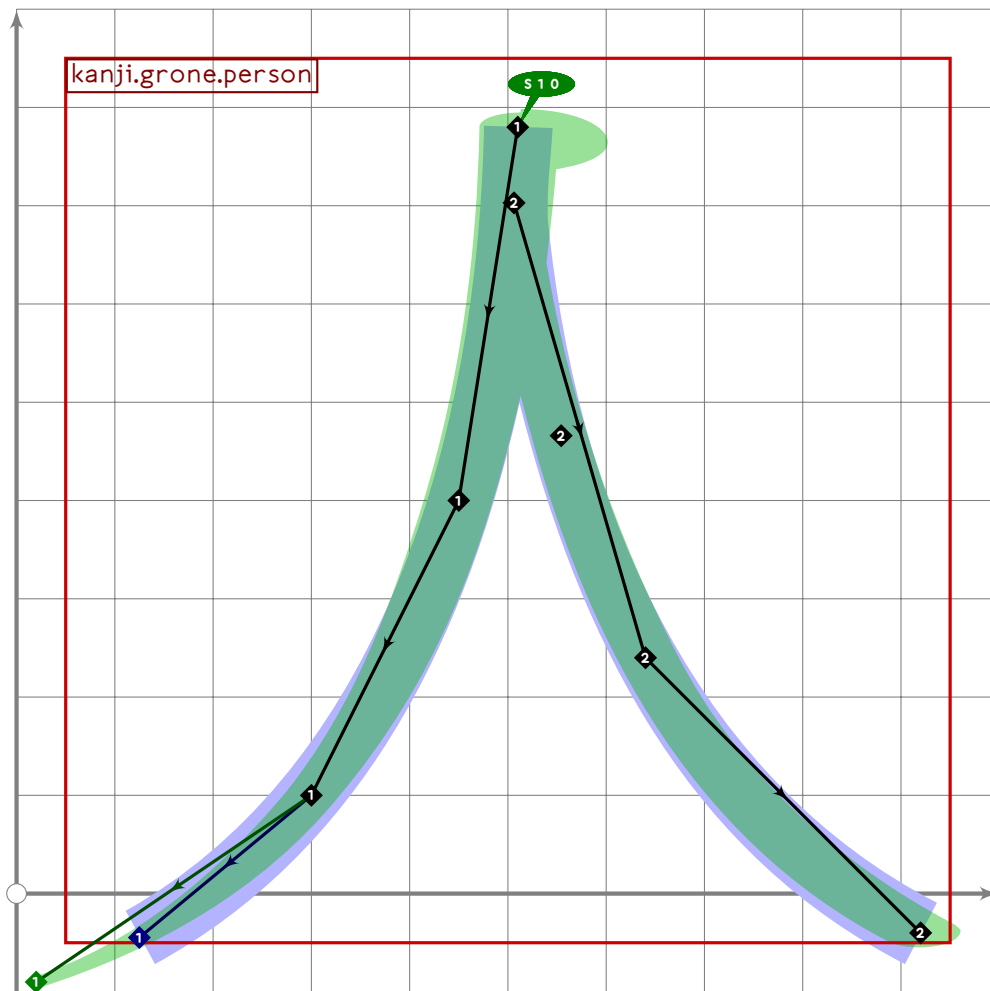
ONE



```

537
538 vardef kanji.grone.paddy =
539   push_pbox_toexpand("kanji.grone.paddy");
540   build_kanji.box((200,700),(800,100));
541   push_stroke((500,700)–(500,100),
542     (1.7,1.7)–(1.5,1.5));
543   push_stroke((200,390)–(800,390),
544     (1.6,1.6)–(1.6,1.6));
545   expand_pbox;
546 enddef;

```

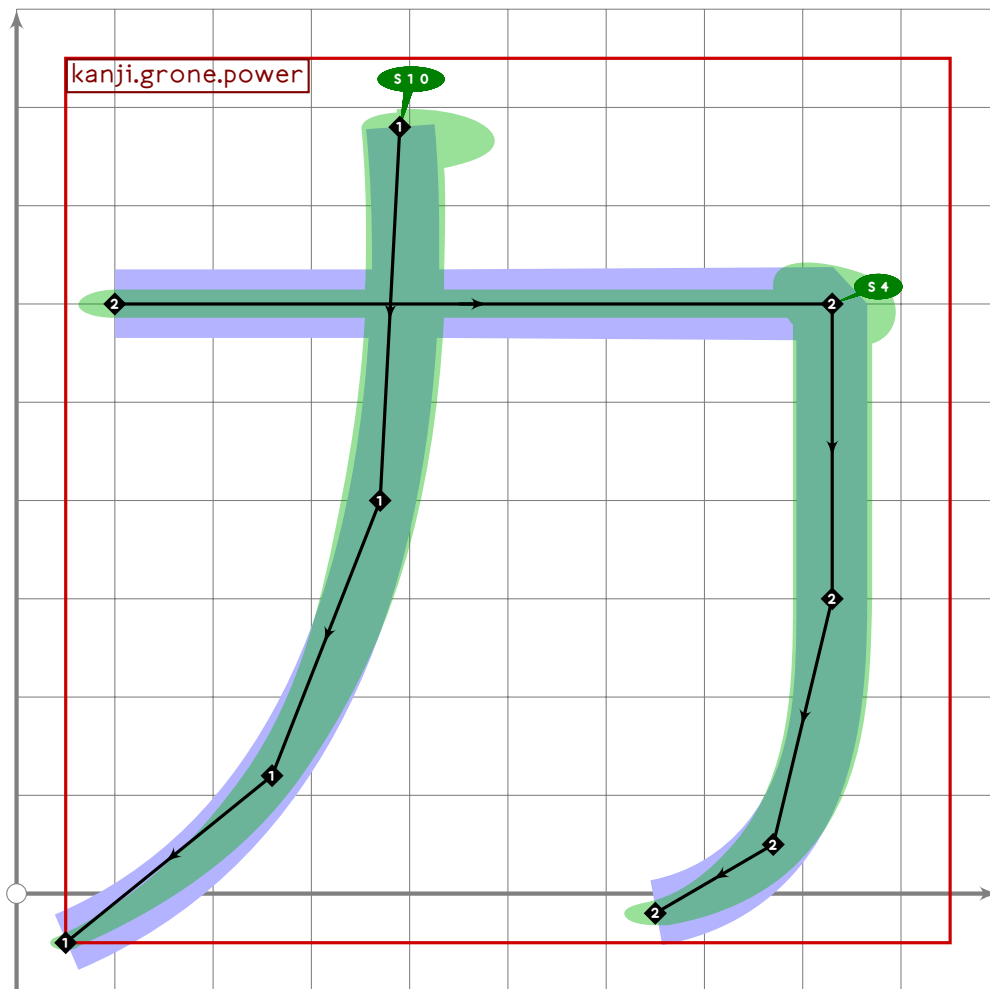



```

547
548 vardef kanji.grone.person =
549   push_pbox_toexpand("kanji.grone.person");
550   push_stroke((510,780)..(450,400)..(300,100)..(20,-90),
551     (1.6,1.6)-(1.5,1.5)-(1.3,1.3)-(0.85,0.85));
552   set_boserif(0,0,10);
553   push_stroke(
554     (point 0.2 of get_stroke(0)).tension 1.2..(640,240)..(920,-40),
555     (1.2,1.2)-(1.4,1.4)-(1.6,1.6));
556   expand_pbox;
557 enddef;

```

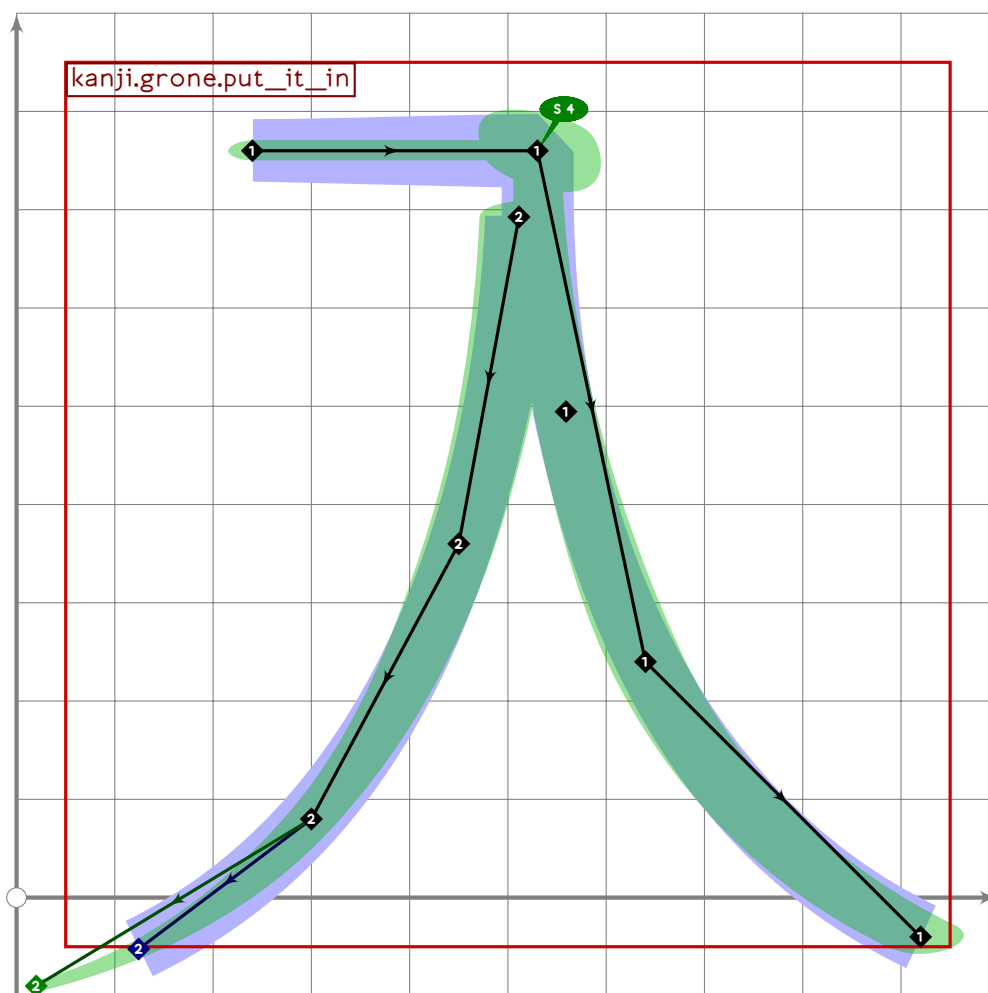
ONE



```

558
559 vardef kanji.grone.power =
560   push_pbox_toexpand("kanji.grone.power");
561   push_stroke((390,780)..(370,400)..(260,120)..(50,-50),
562     (1.6,1.6)-(1.6,1.6)-(1.3,1.3)-(1,1));
563   set_boserif(0,0,10);
564   push_stroke(
565     (100,600)-(830,600)..tension 11..(830,300)..(770,50)..(650,-20),
566     (1.5,1.5)-(1.6,1.6)-(1.6,1.6)-(1.6,1.6)-(1.4,1.4));
567   set_botip(0,1,0);
568   set_boserif(0,1,4);
569   expand_pbox;
570 enddef;

```

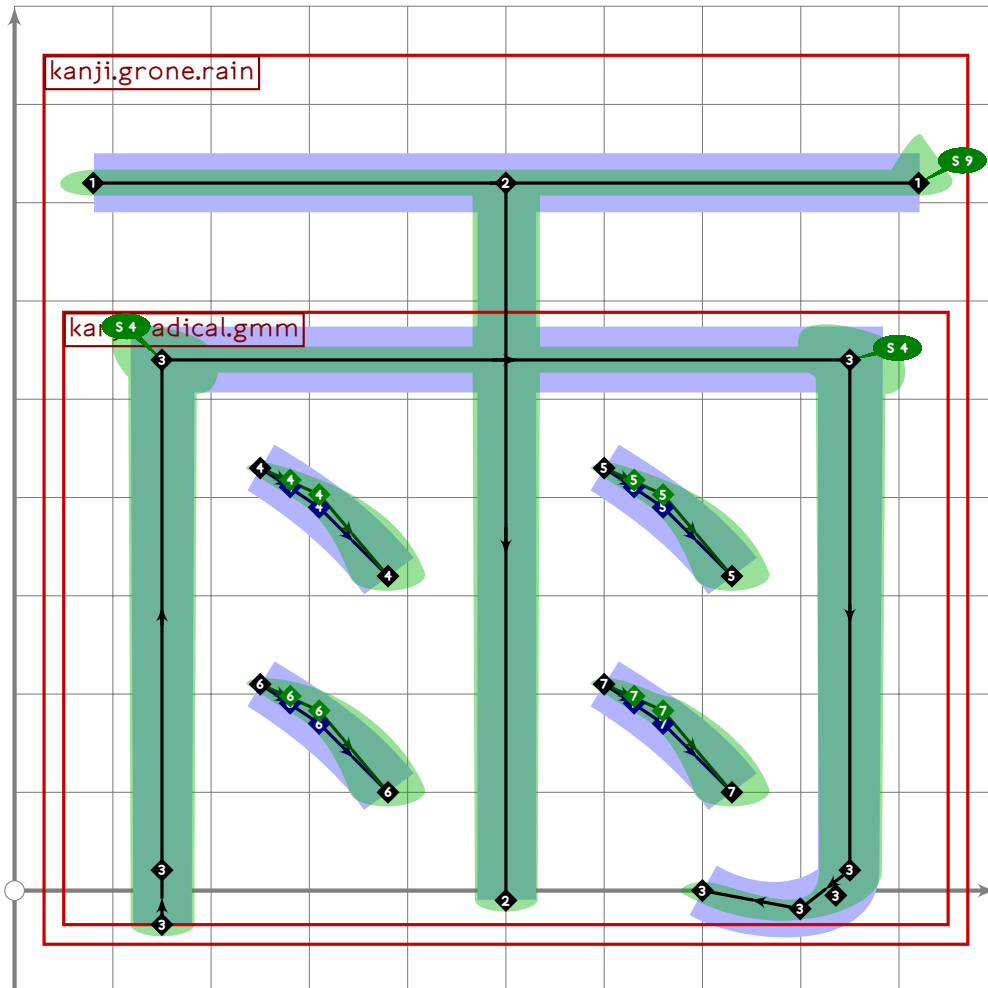


```

571
572 vardef kanji.grone.put_it_in =
573   push_pbox_toexpand("kanji.grone.put_it_in");
574   push_stroke((240,760)-(530,760)..tension 1.2..(640,240)..(920,-40),
575     (1.2,1.2)-(1.2,1.2)-(1.6,1.6)-(1.7,1.7));
576   set_botip(0,1,0);
577   set_boserif(0,1,4);
578   push_stroke(
579     ((-20,0)+point 1.14 of get_stroke(0)).(450,360)..(300,80)..(20,90),
580     (1.6,1.6)-(1.5,1.5)-(1.3,1.3)-(0.85,0.85));
581   expand_pbox;
582 enddef;

```

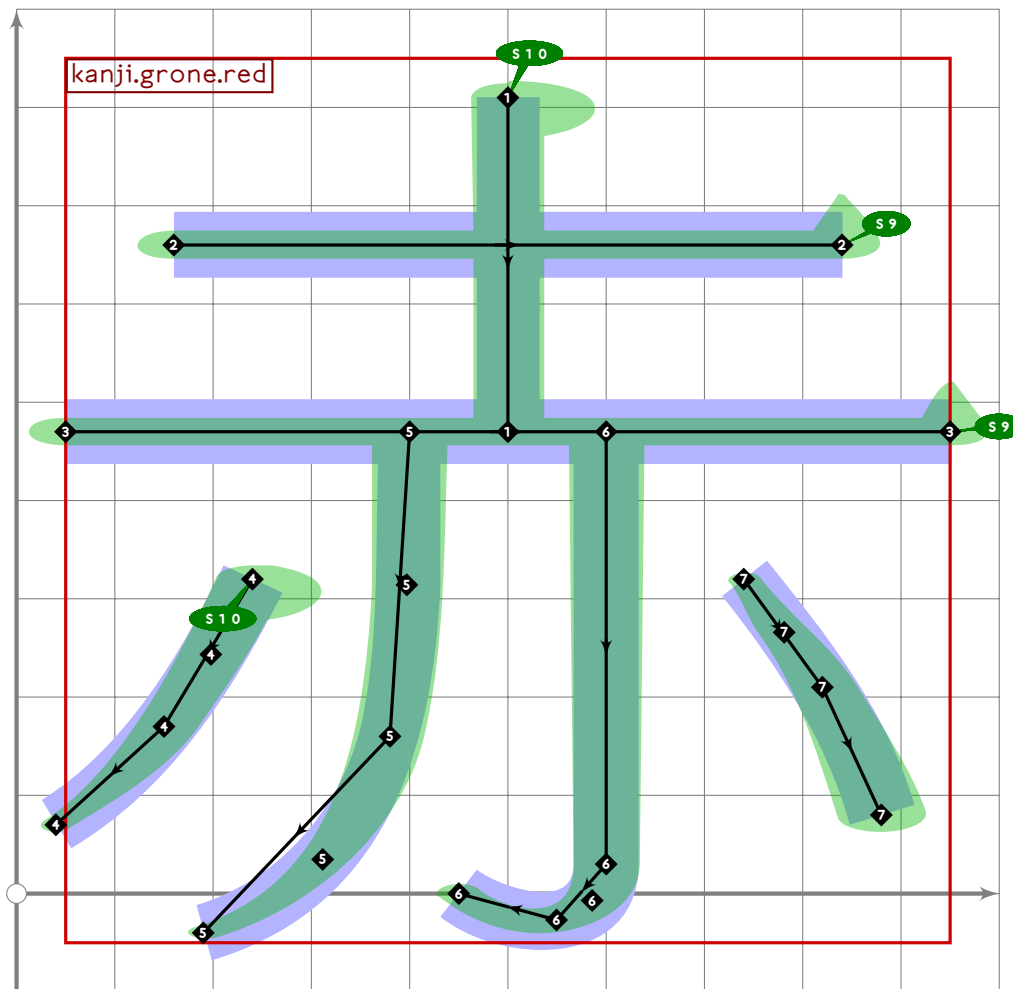
ONE



```

583
584 vardef kanji.grone.rain =
585   push_pbox_toexpand("kanji.grone.rain");
586   build_kanji.level(
587     push_stroke((80,720)-(920,720),(1.6,1.6)-(1.6,1.6));
588     set_boserif(0,19);
589     push_stroke((500,720)-(500,-10),(1.6,1.6)-(1.5,1.5));
590     tsu_xform(identity yscaled (540/780))(kanji.radical.gmm);
591     push_stroke((250,430)..tension 1.2..(310,390+13*mincho)..(380,320),
592       (1,1)-(14,14)-(17,17));
593     set_bosize(0,80);
594     push_stroke(get_strokep(0) shifted (350,0),get_strokeq(0));
595     set_bosize(0,80);
596     push_stroke(get_strokep(-1) shifted (0,-220),get_strokeq(-1));
597     set_bosize(0,80);
598     push_stroke(get_strokep(-2) shifted (350,220),get_strokeq(-2));
599     set_bosize(0,80);
600   );
601   expand_pbox;
602 enddef;

```

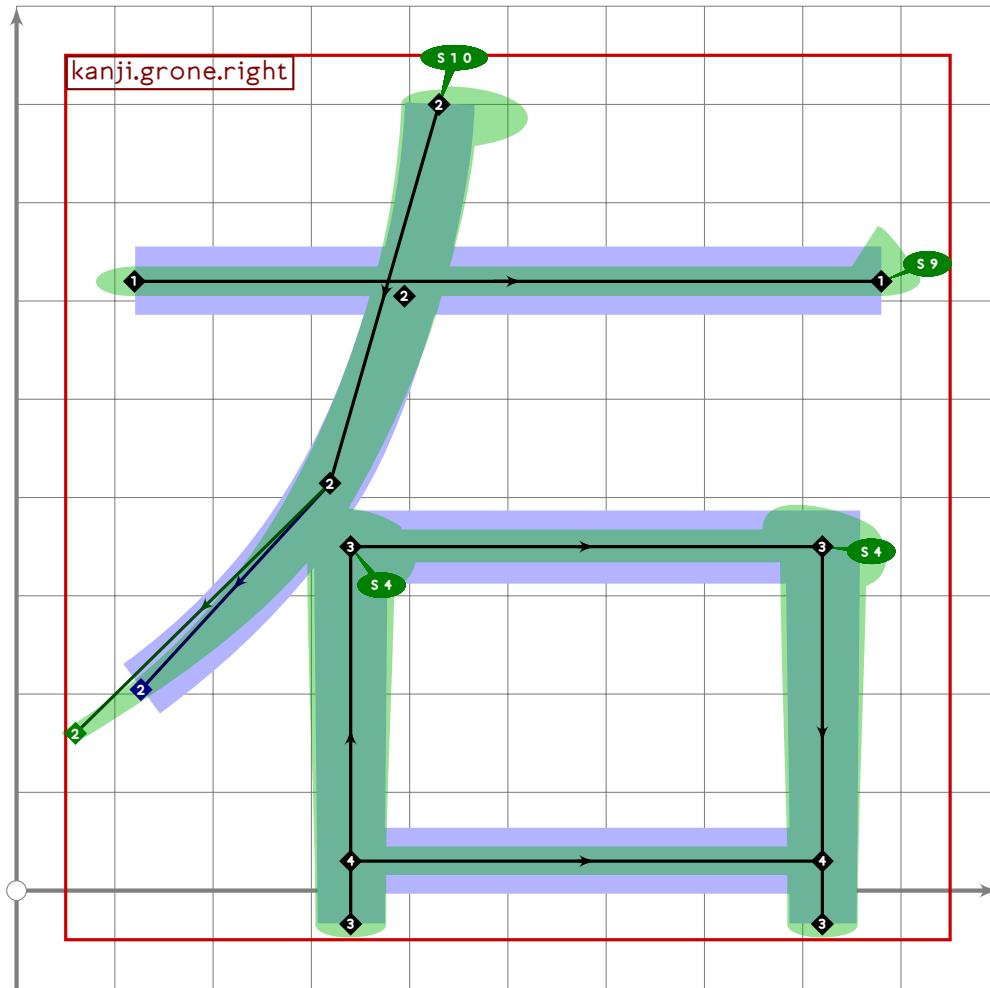


```

603
604 vardef kanji.grone.red =
605   push_pbox_toexpand("kanji.grone.red");
606   push_stroke((500,810)-(500,470),(1.6,1.6)-(1.5,1.5));
607   set_boserif(0,0,10);
608   push_stroke((160,660)-(840,660),(1.6,1.6)-(1.6,1.6));
609   set_boserif(0,1,9);
610   push_stroke((50,470)-(950,470),(1.6,1.6)-(1.6,1.6));
611   set_boserif(0,1,9);
612   push_stroke((240,320)..tension 1.3..(150,170)..(40,70),
613     (1.6,1.6)-(1.5,1.5)-(1,1));
614   set_boserif(0,0,10);
615   push_stroke((400,470){down}..tension 1.3..(380,160)..(190,-40),
616     (1.6,1.6)-(1.5,1.5)-(1,1));
617   push_stroke((600,470),(1.6,1.6));
618   build_kanji.add_jtail(0);
619   push_stroke((740,320)..tension 1.3..(820,210)..(880,80),
620     (1,1)-(1.5,1.5)-(1.8,1.8));
621   for i=-6 upto 0: set_bosize(i,94); endfor;
622   expand_pbox;
623 enddef;

```

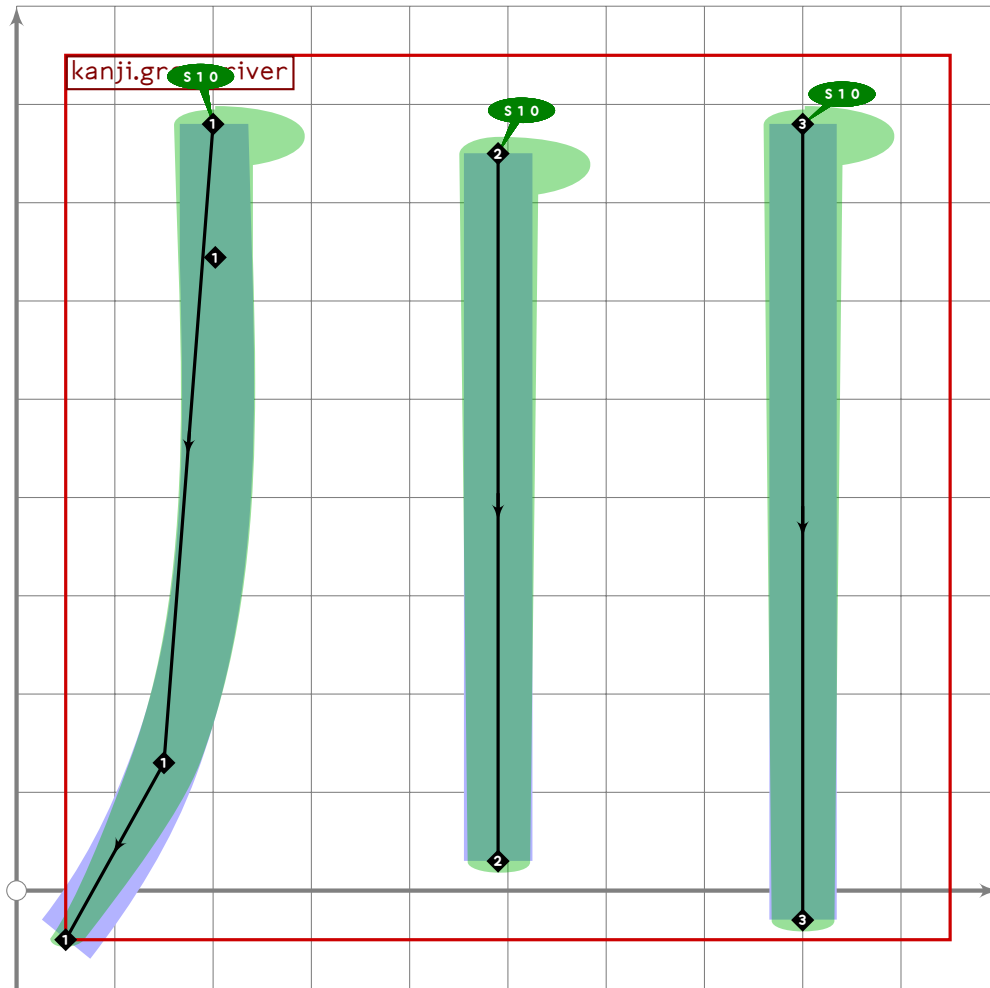
ONE



```

624
625 vardef kanji.grone.right =
626   push_pbox_toexpand("kanji.grone.right");
627   build_kanji.lean_to((430,160));
628   build_kanji.box((340,350),(820,30));
629   expand_pbox;
630 enddef;

```



ONE

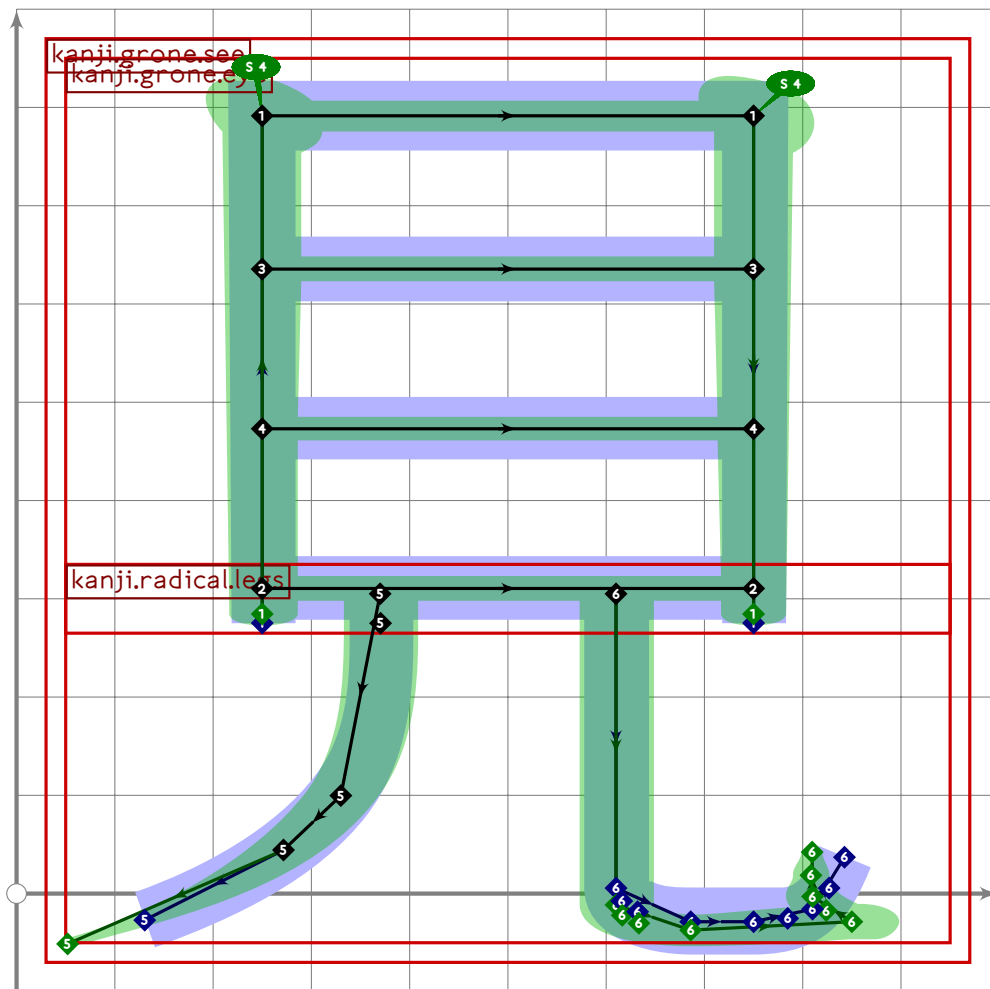
```

631
632 vardef kanji.grone.river =
633   push_pbox_toexpand("kanji.grone.river");
634   push_stroke((200,780){down}..(150,130)..(50,-50),
635     (1,6,1,6)-(1,5,1,5)-(1,1));
636   set_boserif(0,0,10);
637   push_stroke((490,750)-(490,30),
638     (1,6,1,6)-(1,4,1,4));
639   set_boserif(0,0,10);
640   push_stroke((800,780)-(800,-30),
641     (1,6,1,6)-(1,4,1,4));
642   set_boserif(0,0,10);
643   expand_pbox;
644 enddef;

```

U+898B
tsuku.uni898B

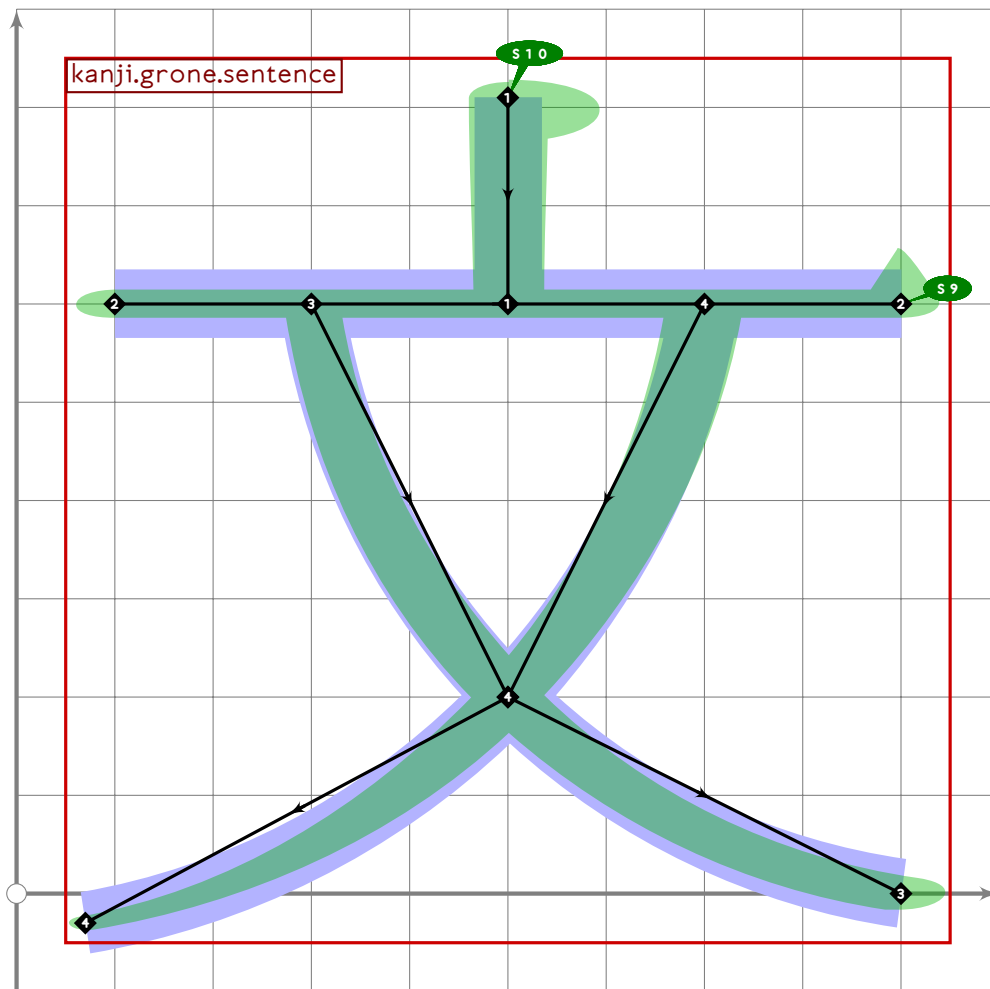
ONE



```

645
646 vardef kanji.grone.see =
647   push_pbox_toexpand("kanji.grone.see");
648   build_kanji.level(build_kanji.tb(300,70)
649     (kanji.grone.ey)
650     (kanji.radical.legs));
651   expand_pbox;
652 enddef;

```

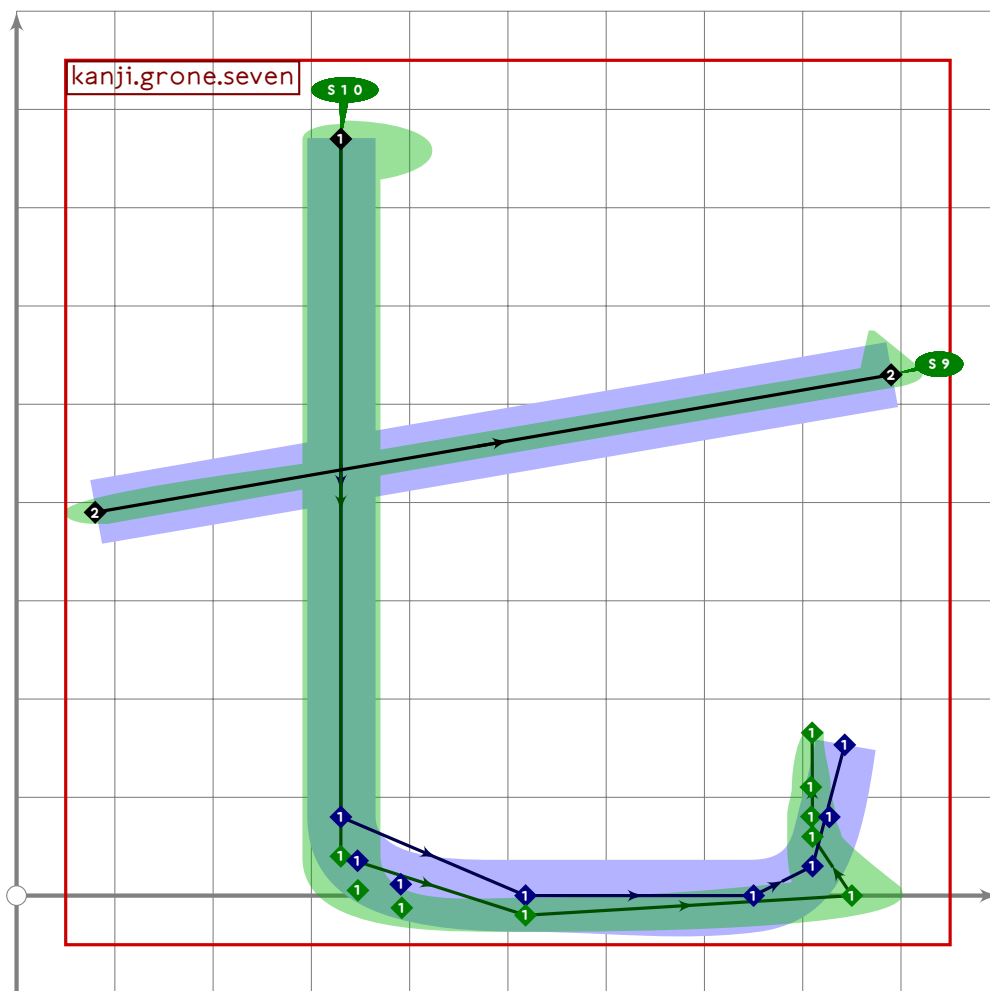



```

653
654 vardef kanji.grone.sentence =
655   push_pbox_toexpand("kanji.grone.sentence");
656   push_stroke((500,810)-(500,600),
657     (1.6,1.6)-(1.5,1.5));
658   set_boserif(0,0,10);
659   push_stroke((100,600)-(900,600),
660     (1.6,1.6)-(1.6,1.6));
661   set_boserif(0,1,9);
662   push_stroke((300,600)..(500,200)..(900,0),
663     (1.3,1.3)-(1.5,1.5)-(1.7,1.7));
664   push_stroke((700,600)..(500,200)..(70,-30),
665     (1.6,1.6)-(1.5,1.5)-(1,1));
666   expand_pbox;
667 enddef;

```

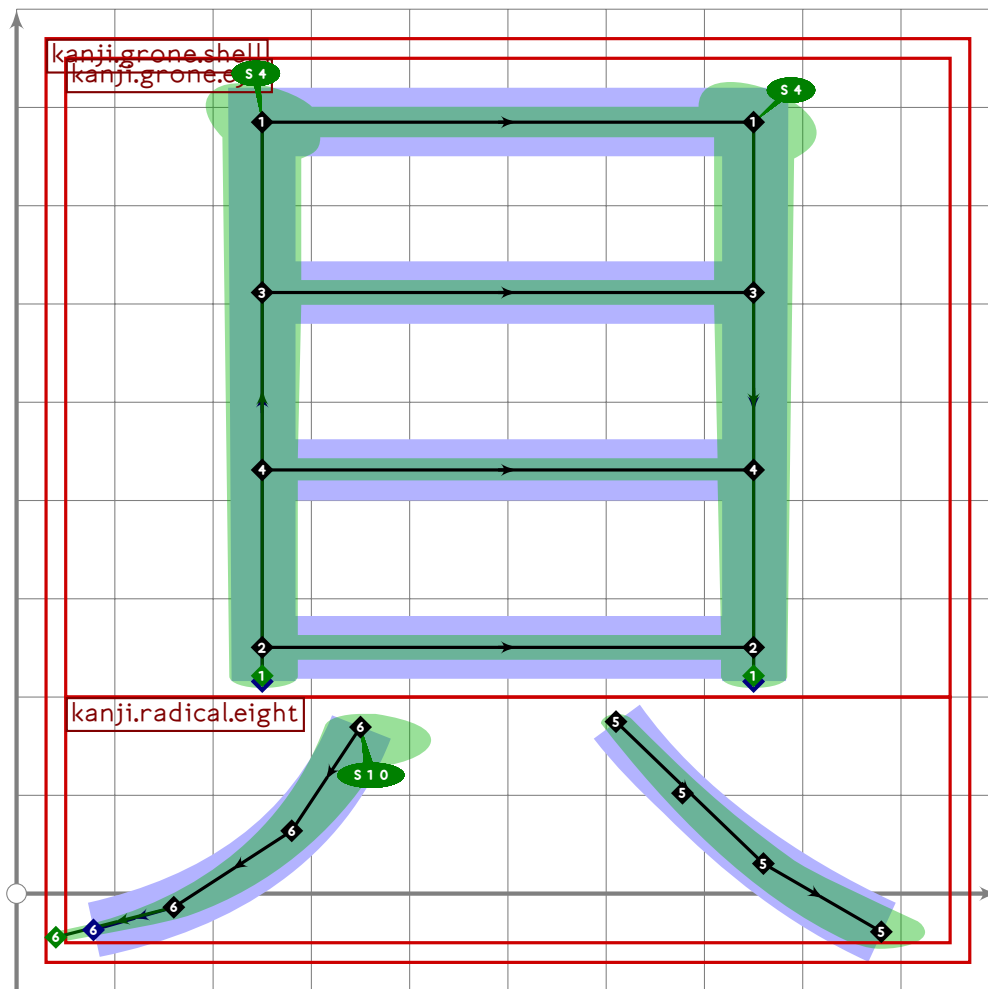
ONE



```

668
669 vardef kanji.grone.seven =
670   push_pbox_toexpand("kanji.grone.seven");
671   push_stroke((330,770),
672     (1.6,1.6));
673   build_kanji.add_ltail(0);
674   set_boserif(0,0,10);
675   push_stroke((80,390)-(890,530),
676     (1.4,1.4)-(1.4,1.4));
677   set_boserif(0,1,9);
678   expand_pbox;
679 enddef;

```



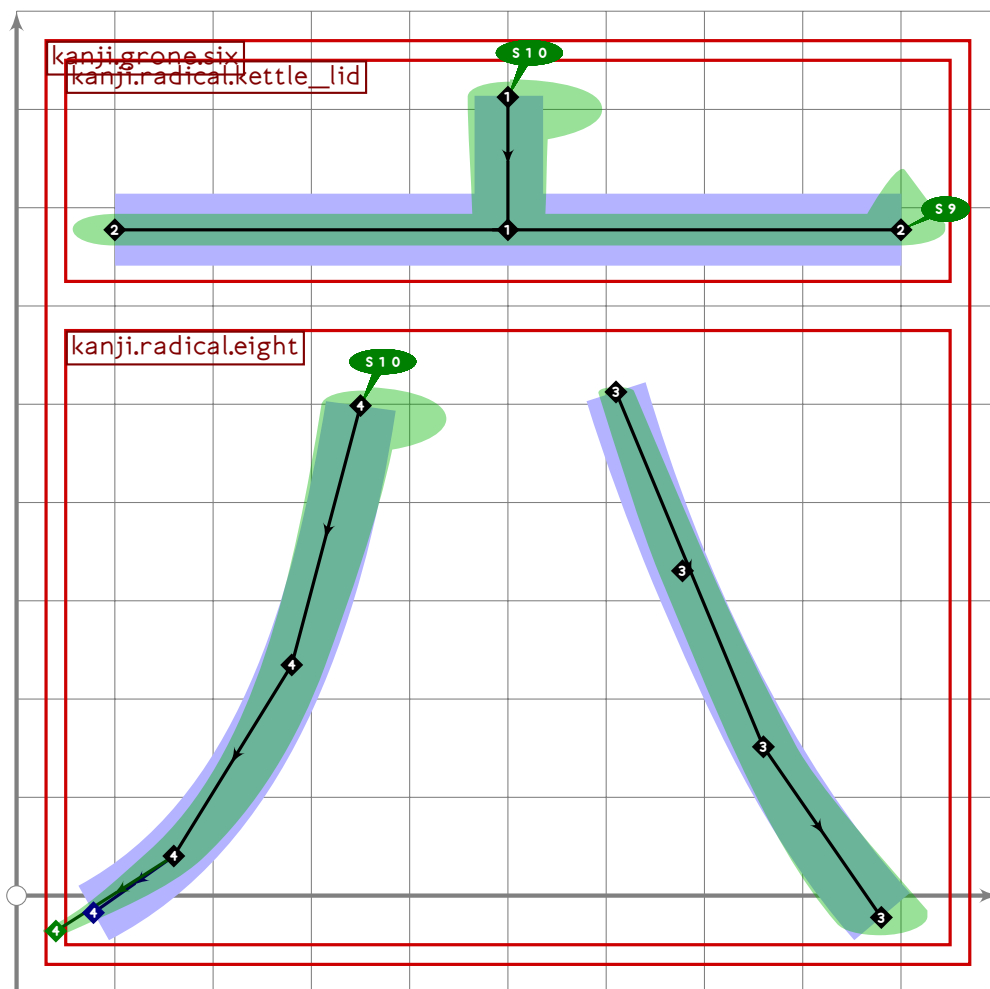
```

680
681 vardef kanji.grone.shell =
682   push_pbox_toexpand("kanji.grone.shell");
683   build_kanji.level(build_kanji.tb(200,0)
684     (kanji.grone.eye)
685     (kanji.radical.eight));
686   expand_pbox;
687 enddef;

```

U+516D
tsuku.uni516D

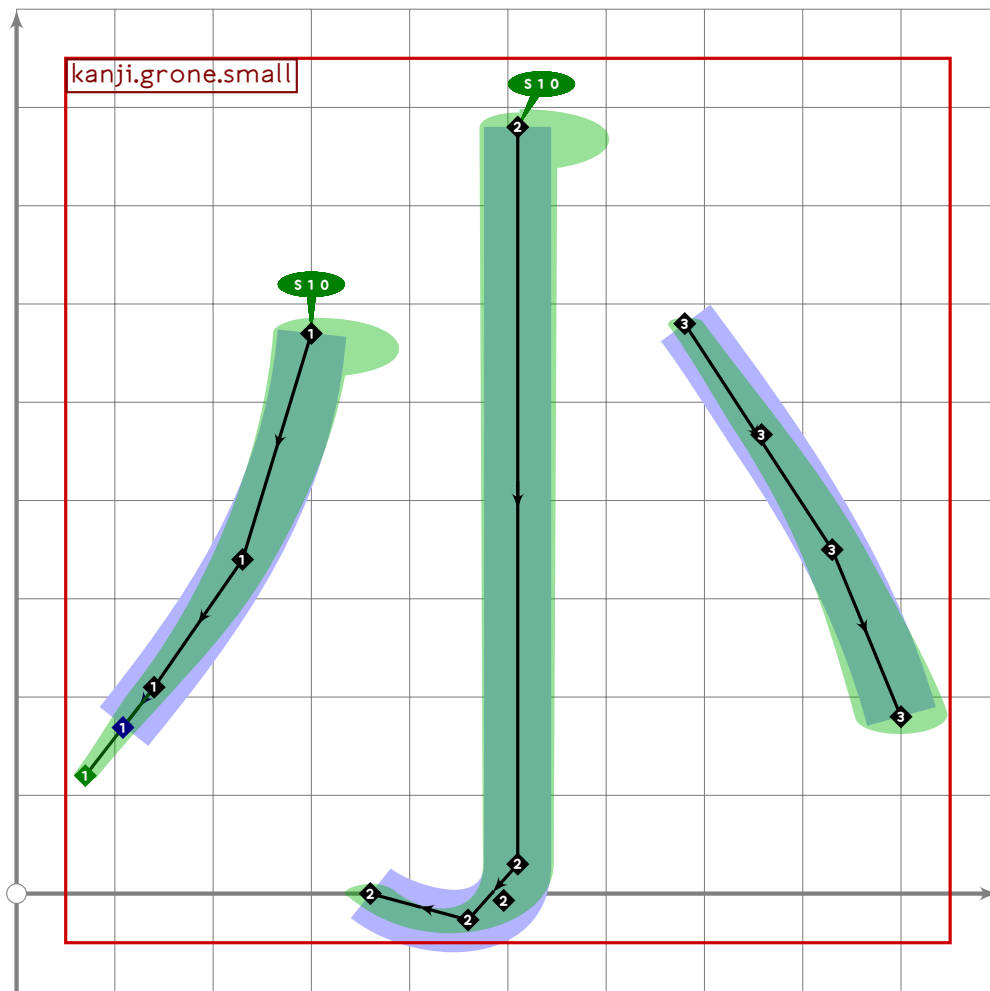
ONE



```

688
689 vardef kanji.grone.six =
690   push_pbox_toexpand("kanji.grone.six");
691   build_kanji.level(build_kanji.tb(600,-50)
692     (kanji.radical.kettle_lid)
693     (kanji.radical.eight));
694   expand_pbox;
695 enddef;

```

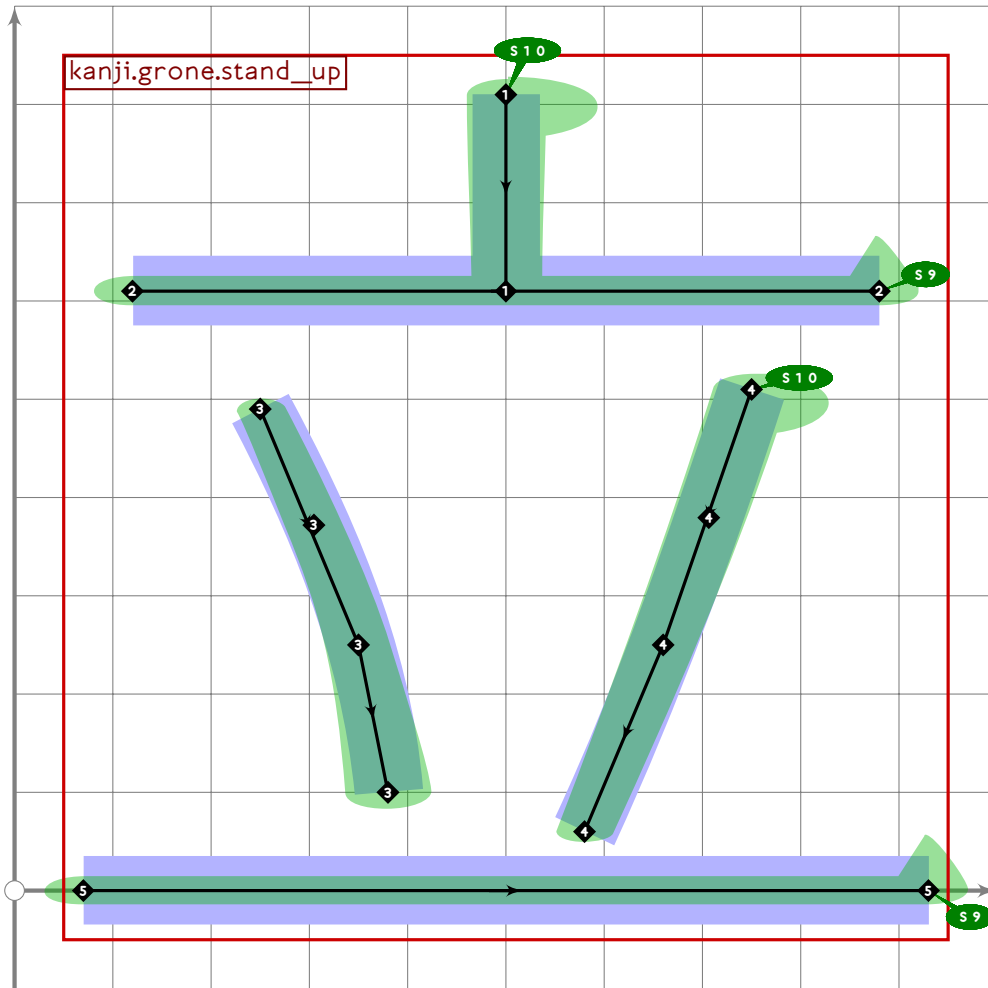


```

696
697 vardef kanji.grone.small =
698   push_pbox_toexpand("kanji.grone.small");
699   push_stroke((300,570)..(230,340)..(140,210)..(70,120),
700     (1,6,1,6)-(14,1,4)-(1,1,1)-(0,88,0,88));
701   set_boserif(0,0,10);
702   push_stroke((510,780),
703     (1,6,1,6));
704   set_boserif(0,0,10);
705   build_kanji.add_jtail(0);
706   push_stroke((680,580)..tension 1.3..(830,350)..(900,180),
707     (1,1)-(14,1,4)-(1,8,1,8));
708   expand_pbox;
709 enddef;

```

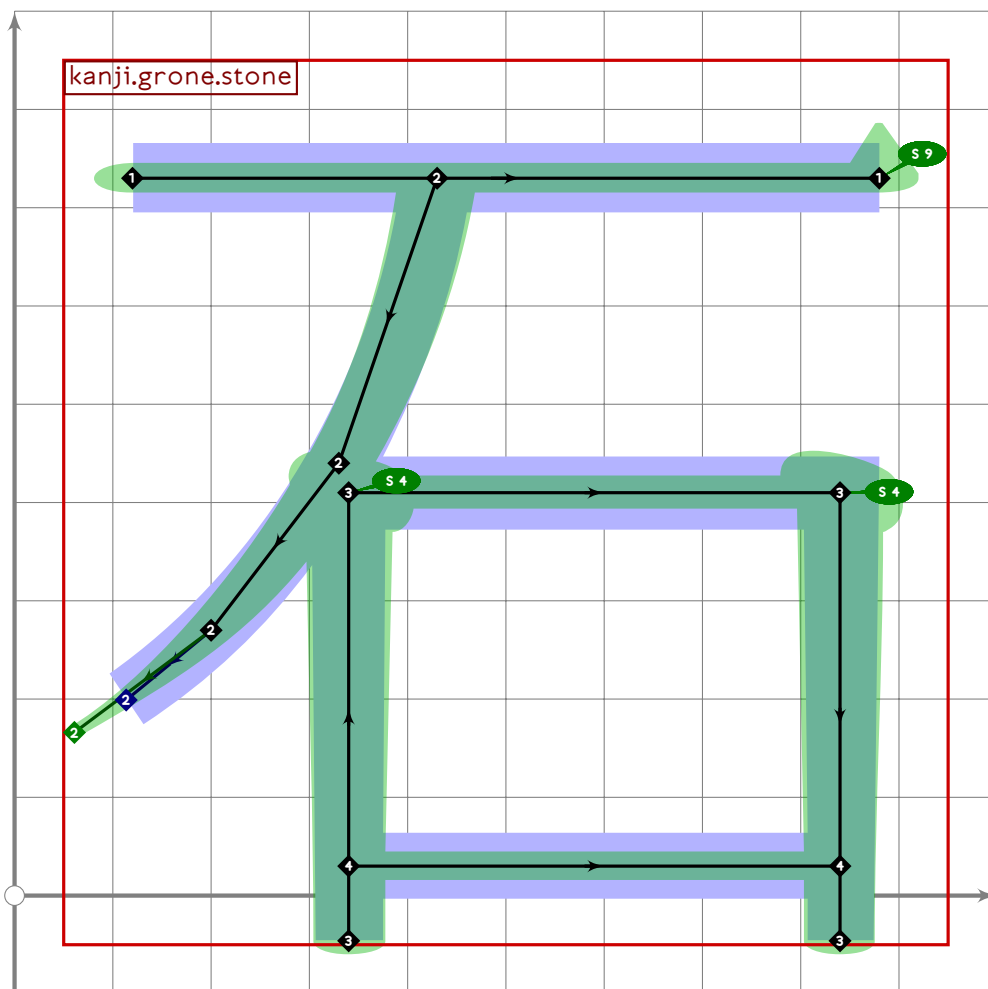
ONE



```

710
711 vardef kanji.grone.stand_up =
712   push_pbox_toexpand("kanji.grone.stand_up");
713   push_stroke((500,810)–(500,610),
714     (1.6,1.6)–(1.5,1.5));
715   set_boserif(0,0,10);
716   push_stroke((120,610)–(880,610),
717     (1.6,1.6)–(1.6,1.6));
718   set_boserif(0,1,9);
719   push_stroke((250,490)..tension 1.2..(350,250)..(380,100),
720     (1.2,1.2)–(1.4,1.4)–(1.7,1.7));
721   push_stroke((750,510)..tension 1.2..(660,250)..(580,60),
722     (1.6,1.6)–(1.5,1.5)–(1.3,1.3));
723   set_boserif(0,0,10);
724   push_stroke((70,0)–(930,0),
725     (1.6,1.6)–(1.6,1.6));
726   set_boserif(0,1,9);
727   expand_pbox;
728 enddef;

```

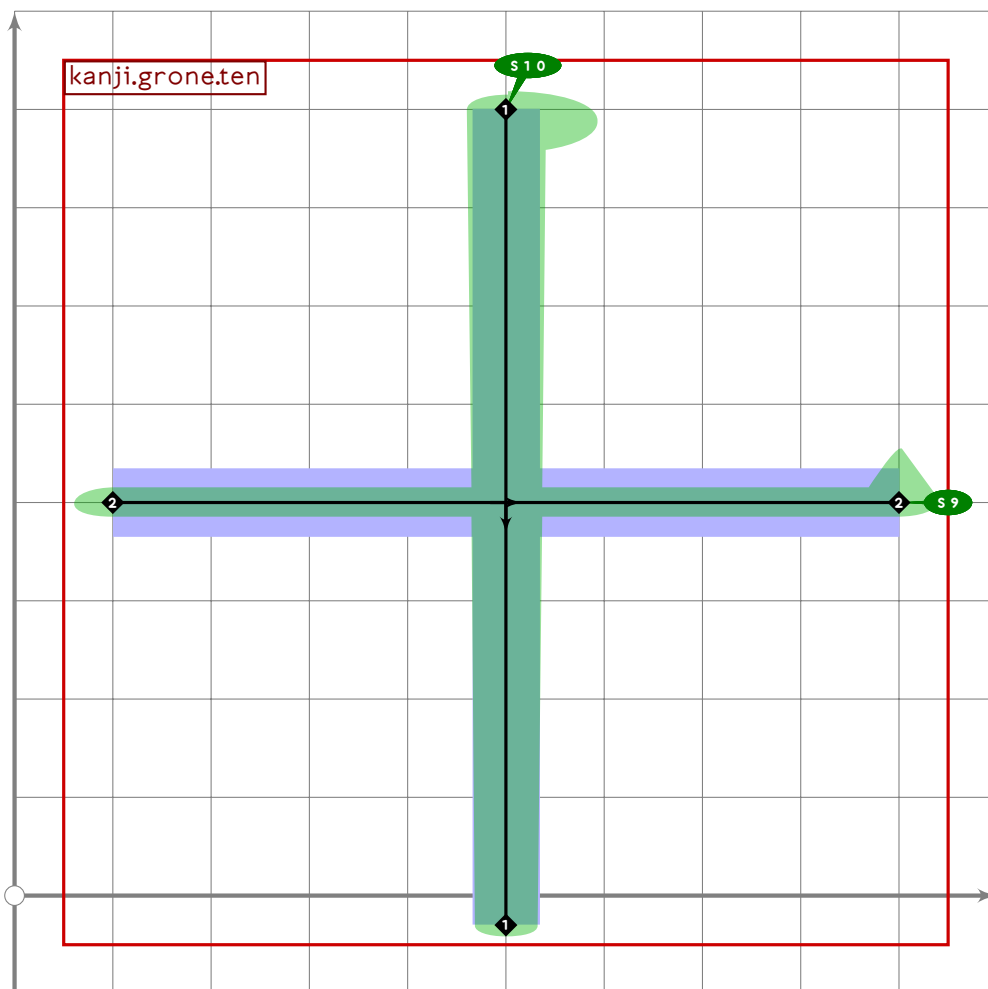


```

729
730 vardef kanji.grone.stone =
731   push_pbox_toexpand("kanji.grone.stone");
732   push_stroke((120,730)..(880,730),(1.6,1.6)–(1.6,1.6));
733   set_boserif(0,1,9);
734   push_stroke((430,730)..(330,440)..(200,270)..(50,160),
735     (1.6,1.6)–(1.5,1.5)–(1.3,1.3)–(0.8,0.8));
736   build_kanji.box((340,410),(840,30));
737   expand_pbox;
738 enddef;

```

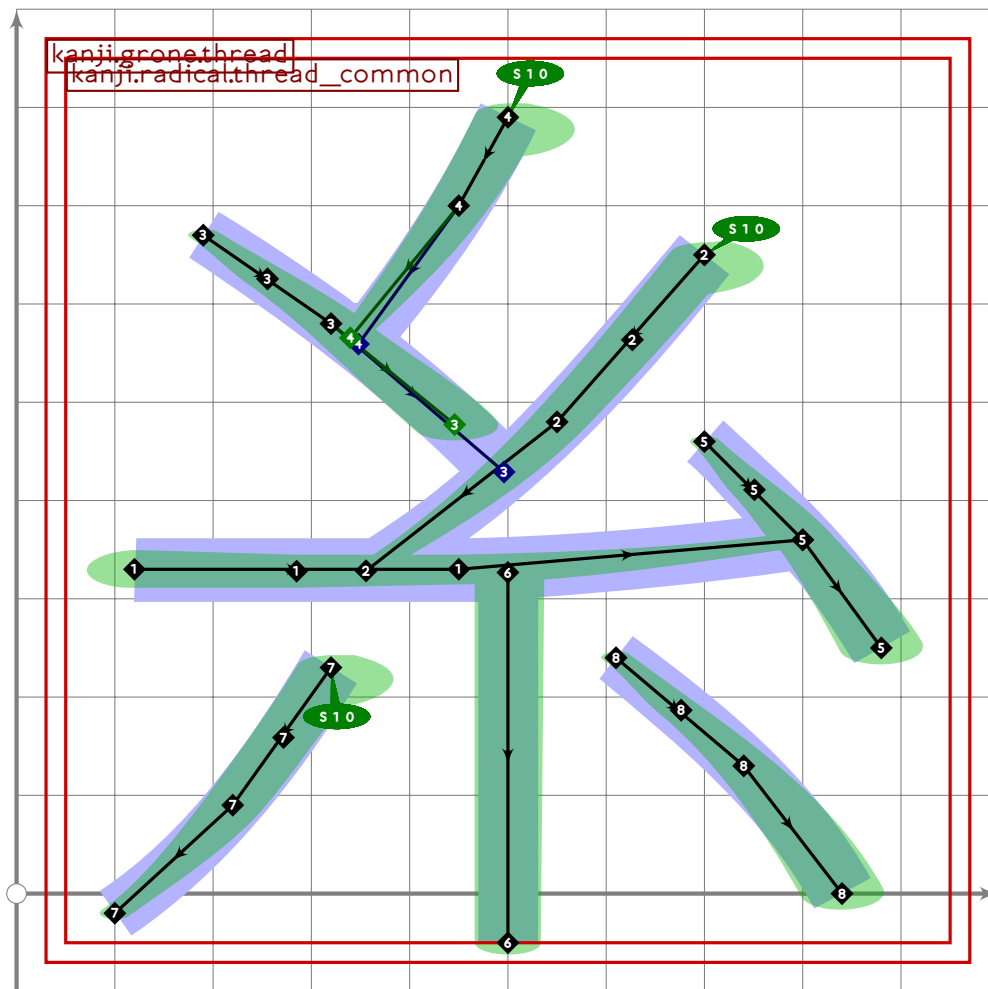
ONE



```

739
740 vardef kanji.grone.ten =
741   push_pbox_toexpand("kanji.grone.ten");
742   push_stroke((500,800)-(500,-30),(1.6,1.6)-(1.4,1.4));
743   set_boserif(0,0,10);
744   push_stroke((100,400)-(900,400),(1.6,1.6)-(1.6,1.6));
745   set_boserif(0,1,9);
746   expand_pbox;
747 enddef;

```

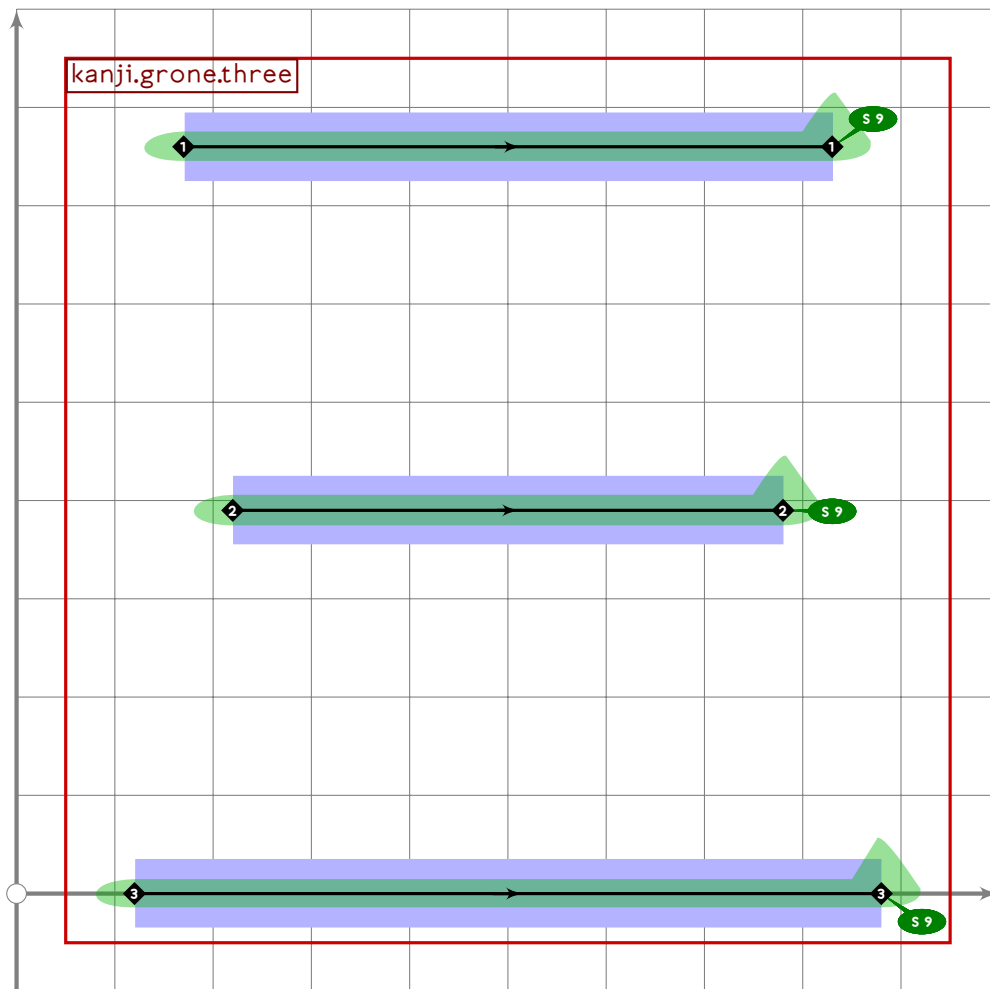



```

748
749 vardef kanji.grone.thread =
750   push_pbox_toexpand("kanji.grone.thread");
751   kanji.radical.thread_common;
752   push_stroke(
753     ((get_stroke(-4) intersectionpoint ((500,1000)-(500,0)))+(0,-5))
754     -(500,-50),
755     (1,6,1,6)-(1,5,1,5));
756   push_stroke((320,230)..tension 1.3..(220,90)..(100,-20),
757     (1,6,1,6)-(1,5,1,5)-(1,1));
758   set_boserif(0,0,10);
759   push_stroke((610,240)..tension 1.3..(740,130)..(840,0),
760     (1,1)-(1,5,1,5)-(1,8,1,8));
761   for i=-7 upto 0: set_bosize(i,90); endfor;
762   expand_pbox;
763 enddef;

```

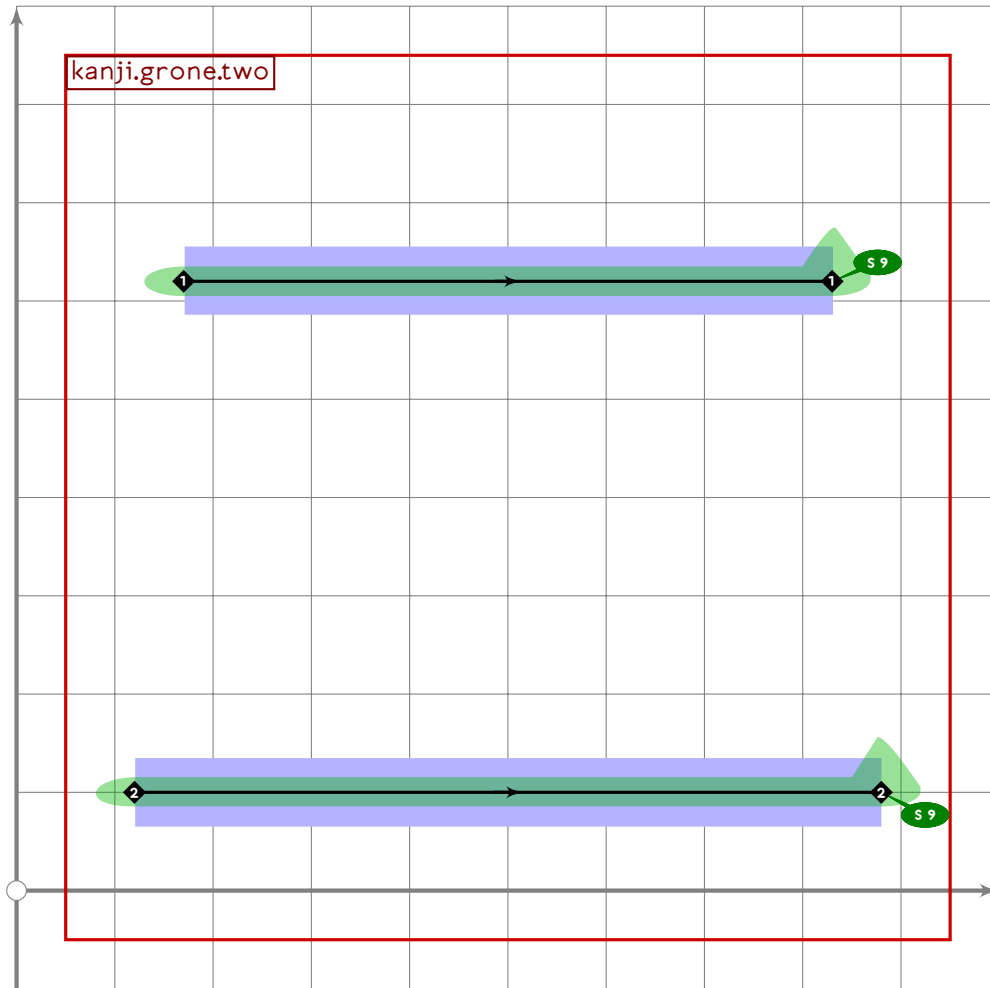
ONE



```

764
765 vardef kanji.grone.three =
766   push_pbox_toexpand("kanji.grone.three");
767   push_stroke((170,760)–(830,760),
768     (1.6,1.6)–(1.6,1.6));
769   set_boserif(0,1,9);
770   push_stroke((220,390)–(780,390),
771     (1.6,1.6)–(1.6,1.6));
772   set_boserif(0,1,9);
773   push_stroke((120,0)–(880,0),
774     (1.6,1.6)–(1.6,1.6));
775   set_boserif(0,1,9);
776   expand_pbox;
777 enddef;

```



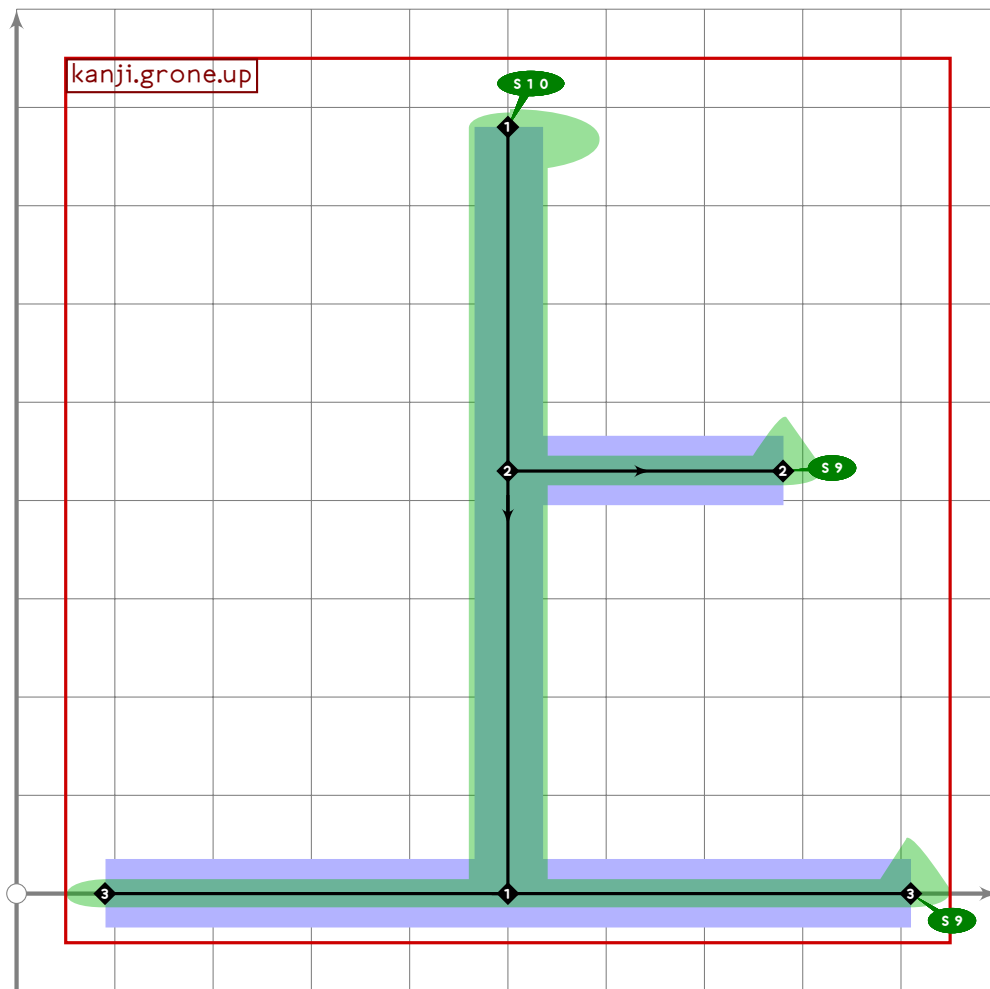
```

778
779 vardef kanji.grone.two =
780   push_pbox_toexpand("kanji.grone.two");
781   push_stroke((170,620)-(830,620),(1.6,1.6)-(1.6,1.6));
782   set_boserif(0,1,9);
783   push_stroke((120,100)-(880,100),(1.6,1.6)-(1.6,1.6));
784   set_boserif(0,1,9);
785   expand_pbox;
786 enddef;

```

U+4E0A
tsuku.uni4E0A

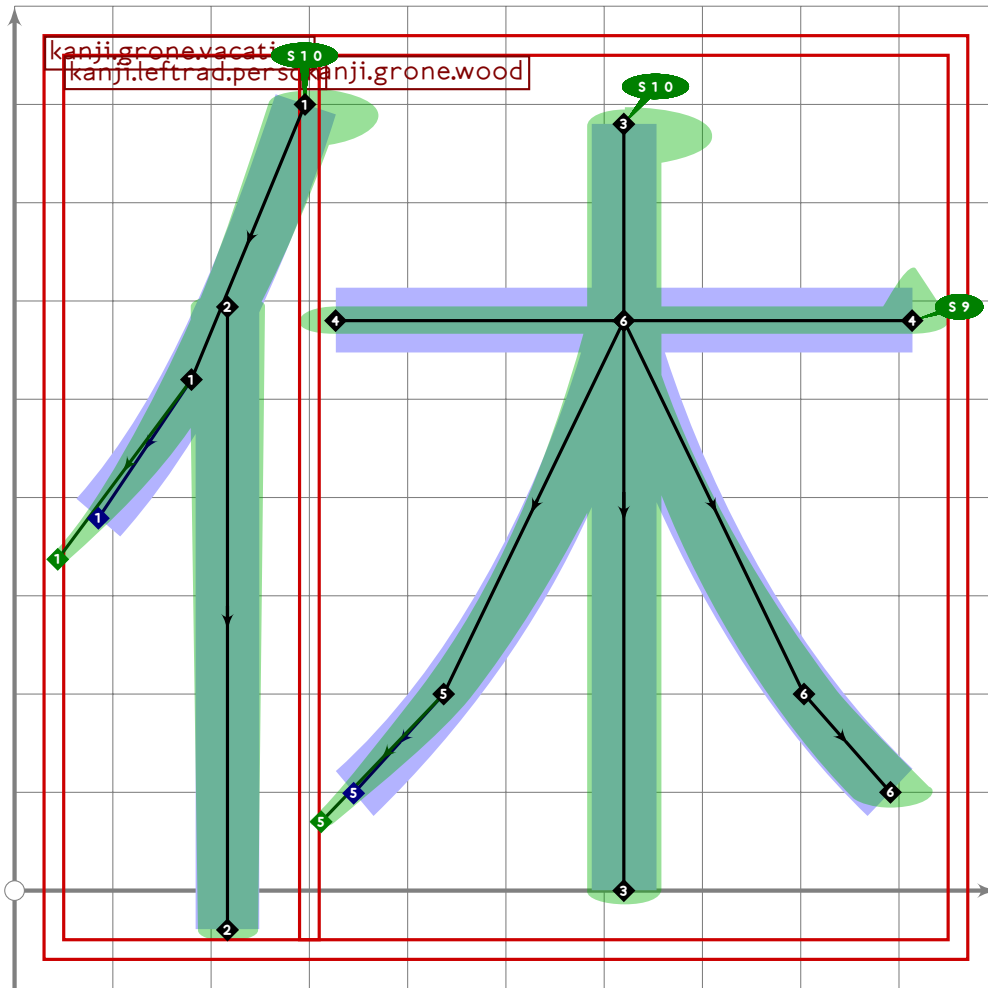
ONE



```

787
788 vardef kanji.grone.up =
789   push_pbox_toexpand("kanji.grone.up");
790   push_stroke((500,780)-(500,0),
791     (1.6,1.6)-(1.6,1.6));
792   set_boserif(0,0,10);
793   push_stroke((500,430)-(780,430),
794     (1.6,1.6)-(1.6,1.6));
795   set_boserif(0,1,9);
796   push_stroke((90,0)-(910,0),
797     (1.6,1.6)-(1.6,1.6));
798   set_boserif(0,1,9);
799   expand_pbox;
800 enddef;

```

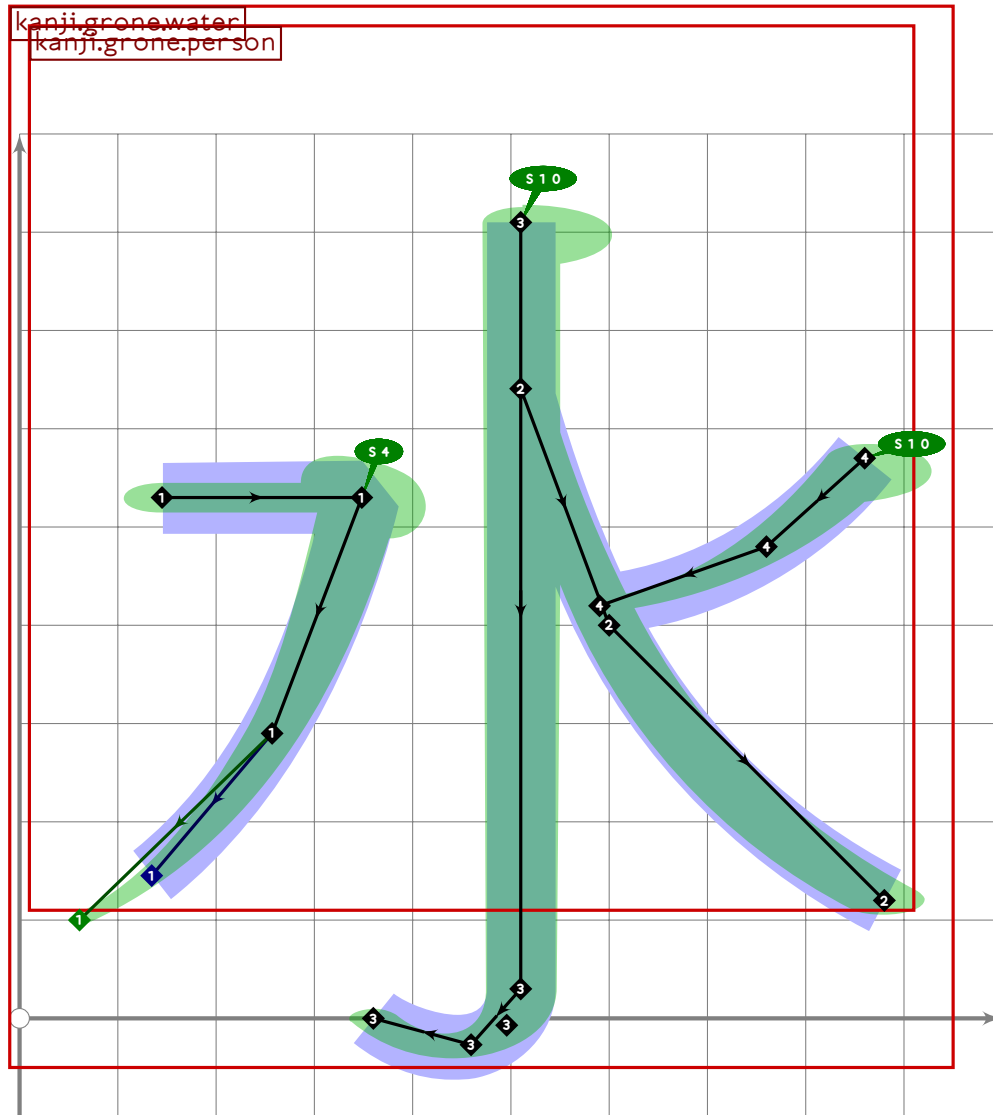


```

801
802 vardef kanji.grone.vacation =
803   push_pbox_toexpand("kanji.grone.vacation");
804   build_kanji.lr(300,20)
805     (kanji.leftrad.person)
806     (kanji.grone.wood);
807   expand_pbox;
808 enddef;

```

ONE



```

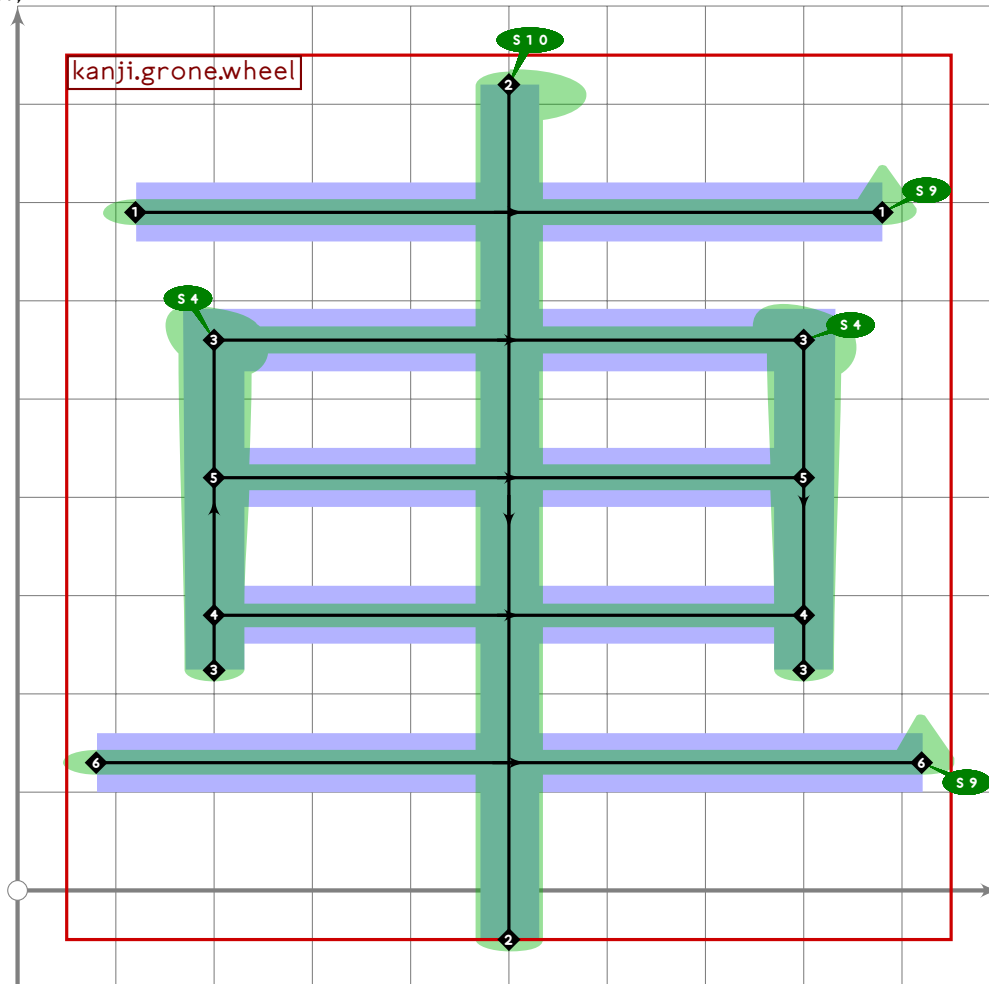
809
810 vardef kanji.grone.water =
811   push_pbox_toexpand("kanji.grone.water");
812   tsu_xform(identity shifted (-40,160))(kanji.grone.person);
813   replace_strokep(-1)((100,500)-
814     (subpath (xpart (oldp intersectiontimes
815       ((0,500)-(1000,500))),infinity) of oldp))
816     shifted (-250,0) xscaled 0.7 shifted (250,30));
817   replace_strokeq(-1)((1.6,1.6)-(1.6,1.6)-(1.3,1.3)-(0.85,0.85));
818   set_boserif(-1,0,whatever);
819   set_boserif(-1,1,4);
820   set_botip(-1,1,0);
821   push_stroke((510,810),(1.6,1.6));
822   build_kanji.add_jtail(0);
823   set_boserif(0,0,10);
824   replace_strokep(-1)(
825     subpath (xpart (oldp intersectiontimes get_strokep(0)),infinity)
826     of oldp);

```

```

827 push_stroke((860,570)..(760,480)..(point 0.9 of get_stroke(-1)),
828   (1.6,1.6)–(1.4,1.4)–(1,1));
829 set_boserif(0,0,10);
830 expand_pbox;
831 enddef;

```



```

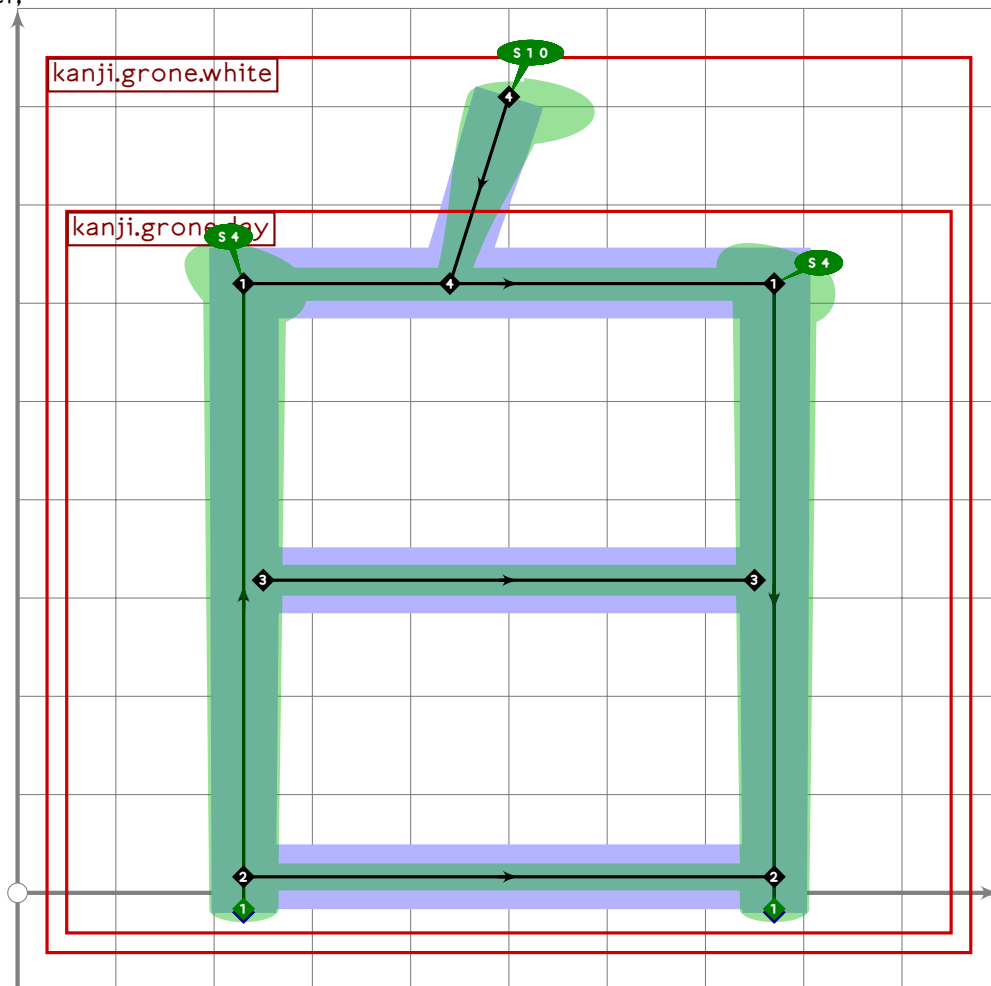
832
833 vardef kanji.grone.wheel =
834   push_pbox_toexpand("kanji.grone.wheel");
835   push_stroke((120,690)–(880,690),
836     (1.6,1.6)–(1.6,1.6));
837   set_boserif(0,1,9);
838   push_stroke((500,820)–(500,-50),
839     (1.6,1.6)–(1.6,1.6));
840   set_boserif(0,0,10);
841   build_kanji.box((200,560),(800,280));
842   push_stroke((200,420)–(800,420),
843     (1.6,1.6)–(1.6,1.6));
844   push_stroke((80,130)–(920,130),
845     (1.6,1.6)–(1.6,1.6));
846   set_boserif(0,1,9);
847   for i=-5 upto 0: set_bosize(i,85); endfor;

```

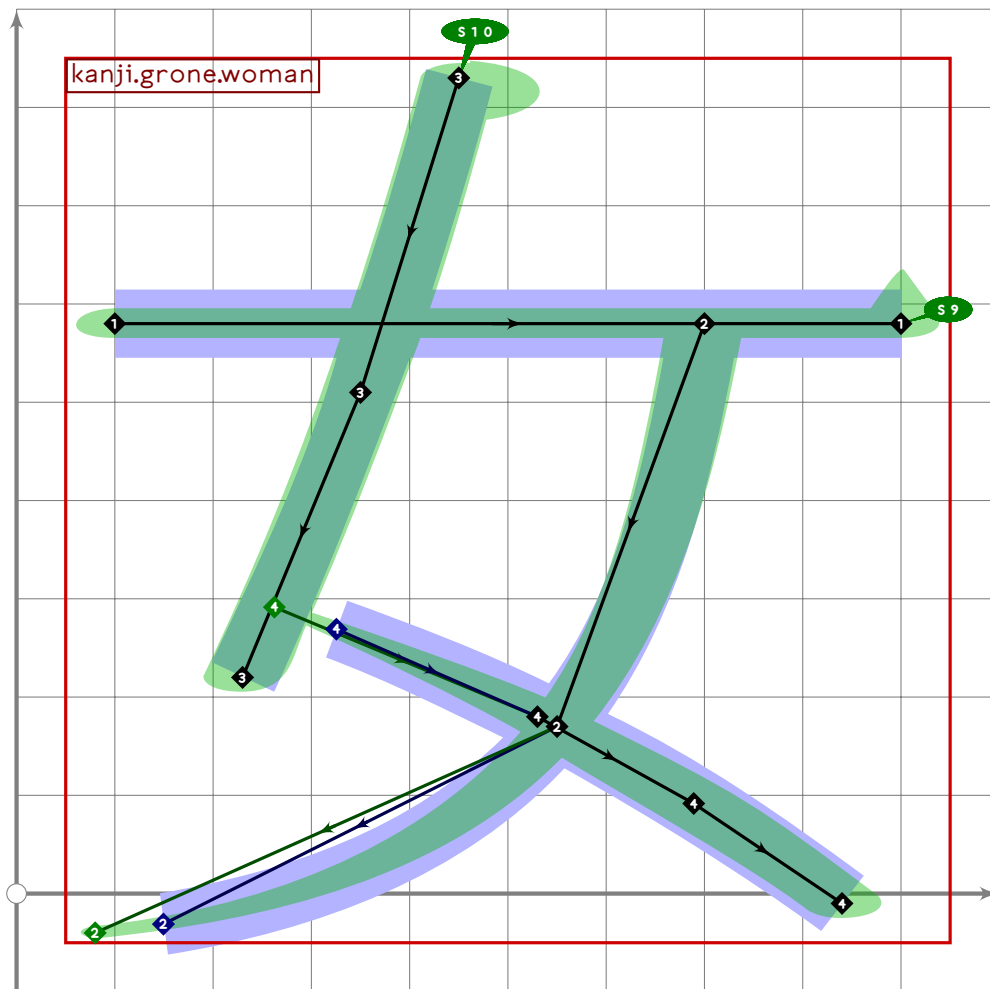
U+767D
tsuku.uni767D

```
848 expand_pbox;  
849 enddef;
```

ONE



```
850  
851 vardef kanji.grone.white =  
852   push_pbox_toexpand("kanji.grone.white");  
853   build_kanji.attach_tick(620)(kanji.grone.day);  
854   expand_pbox;  
855 enddef;
```

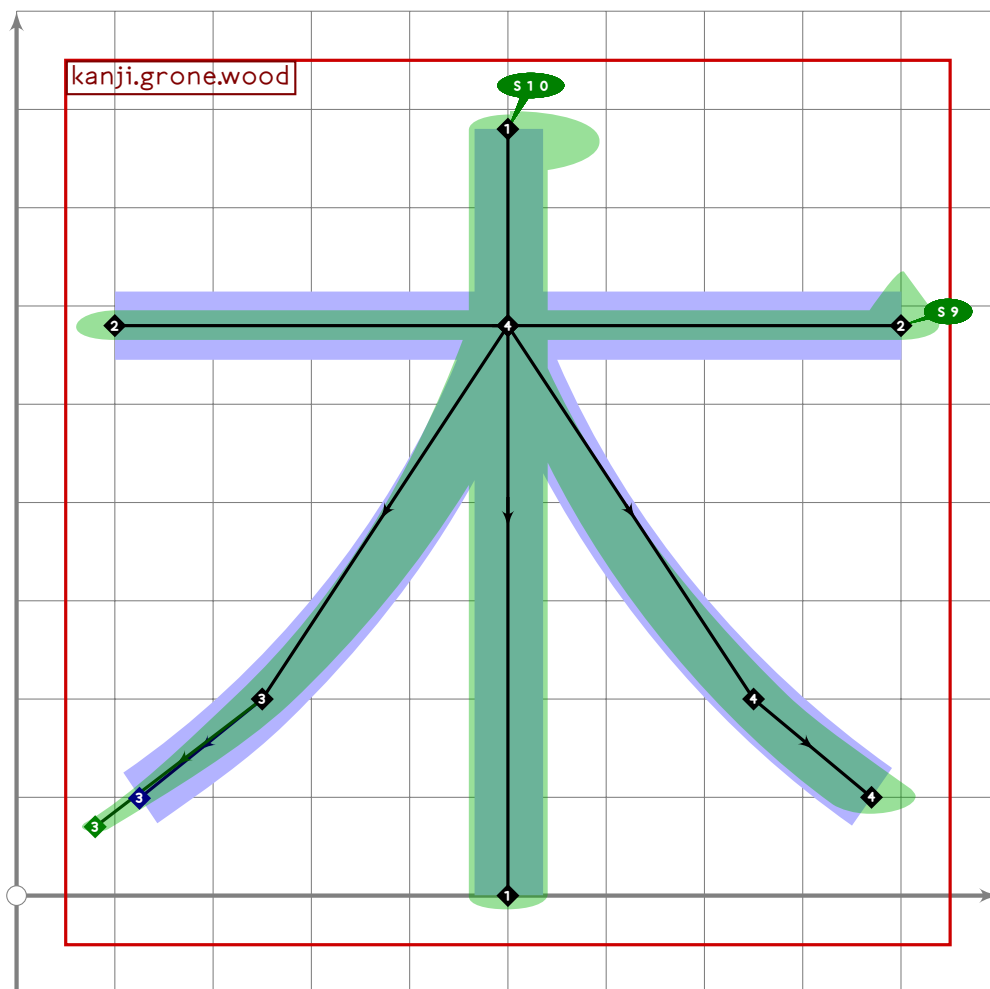



```

856
857 vardef kanji.grone.woman =
858   push_pbox_toexpand("kanji.grone.woman");
859   push_stroke((100,580)–(900,580),
860     (1.6,1.6)–(1.6,1.6));
861   set_boserif(0,19);
862   push_stroke((700,580){curl 0}..(550,170)..{curl 0.3}(80,-40),
863     (1.6,1.6)–(1.4,1.4)–(0.94,0.94));
864   push_stroke((450,830)..(350,510)..(230,220),
865     (1.6,1.6)–(1.6,1.6)–(1.6,1.6));
866   set_boserif(0,0,10);
867   push_stroke((point 1.75 of get_stroke(0))..(530,180)..(840,-10),
868     (0.85,0.85)–(1.5,1.5)–(1.8,1.8)–(1.6,1.6));
869   replace_stroke(0)(insert_nodes(oldp)(1.5));
870   expand_pbox;
871 enddef;

```

ONE



```

872
873 vardef kanji.grone.wood =
874   push_pbox_toexpand("kanji.grone.wood");
875   push_stroke((500,780)–(500,0),
876     (1,6,1,6)–(1,6,1,6));
877   set_boserif(0,0,10);
878   push_stroke((100,580)–(900,580),
879     (1,6,1,6)–(1,6,1,6));
880   set_boserif(0,1,9);
881   push_stroke((500,580)..(250,200)..(80,70),
882     (1,6,1,6)..(1,3,1,3)..(0,9,0,9));
883   push_stroke((500,580)..(750,200)..(870,100),
884     (1,1,1,1)..(1,5,1,5)..(1,7,1,7));
885   expand_pbox;
886 enddef;

```

gradetwo.mp

```
1 %
2 % Grade Two kanji used on more than one page
3 % Copyright (C) 2011, 2012, 2013 Matthew Skala
4 %
```

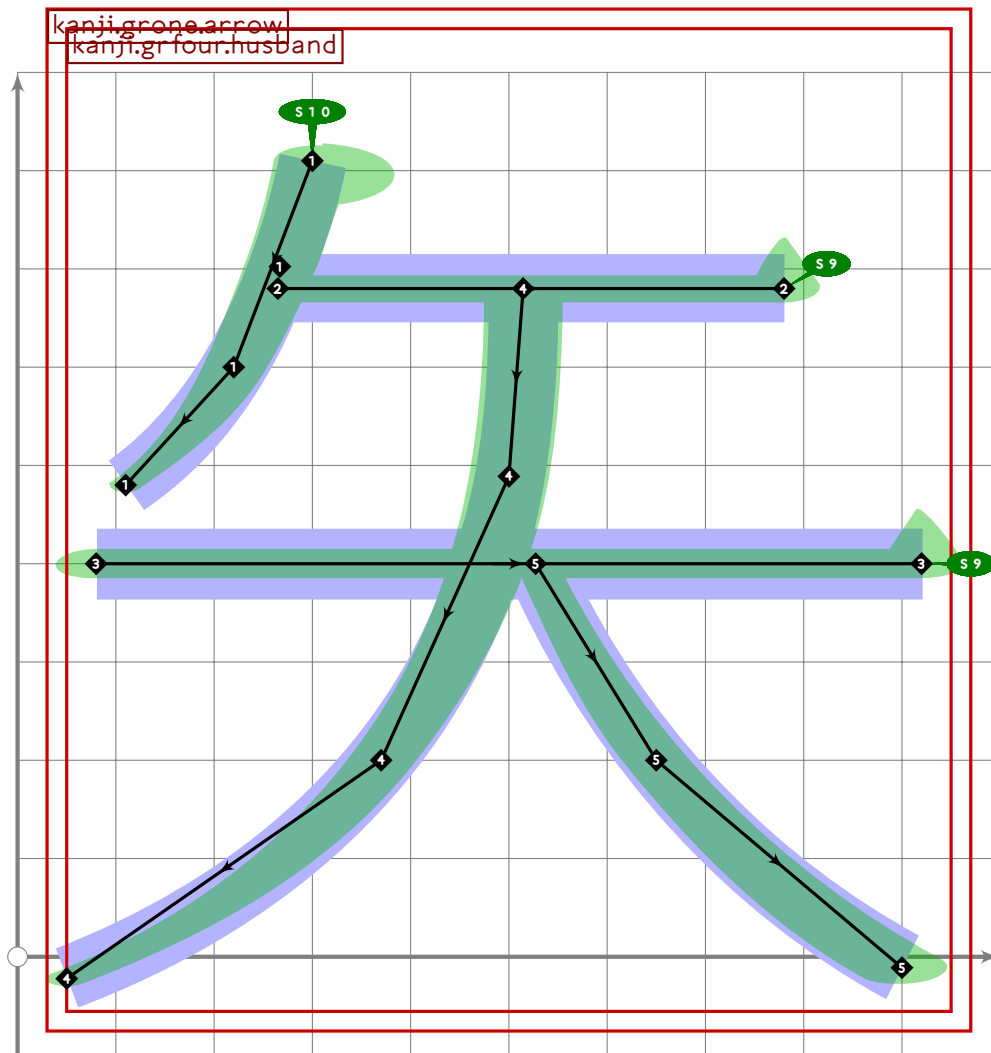
```
5-29 [Standard copyright notice]
```

```
30
```

```
31 inclusion_lock(gradetwo);
```

```
32
```

```
33
```



```
34
```

```
35 vardef kanji.grtwo.arrow =
```

```
36   push_pbox_toexpand("kanji.grone.arrow");
```

```
37   push_stroke((300,810)..tension 1.2..(220,600)..(110,480),
```

```
38     (1,6,1,6)-(1,4,1,4)-(1,1));
```

```
39   set_boserif(0,0,10);
```

```
40   tsu_xform(identity yscaled (400/360))(kanji.grfour.husband);
```

```
41   replace_stroke(-3)((100,680)-(780,680));
```

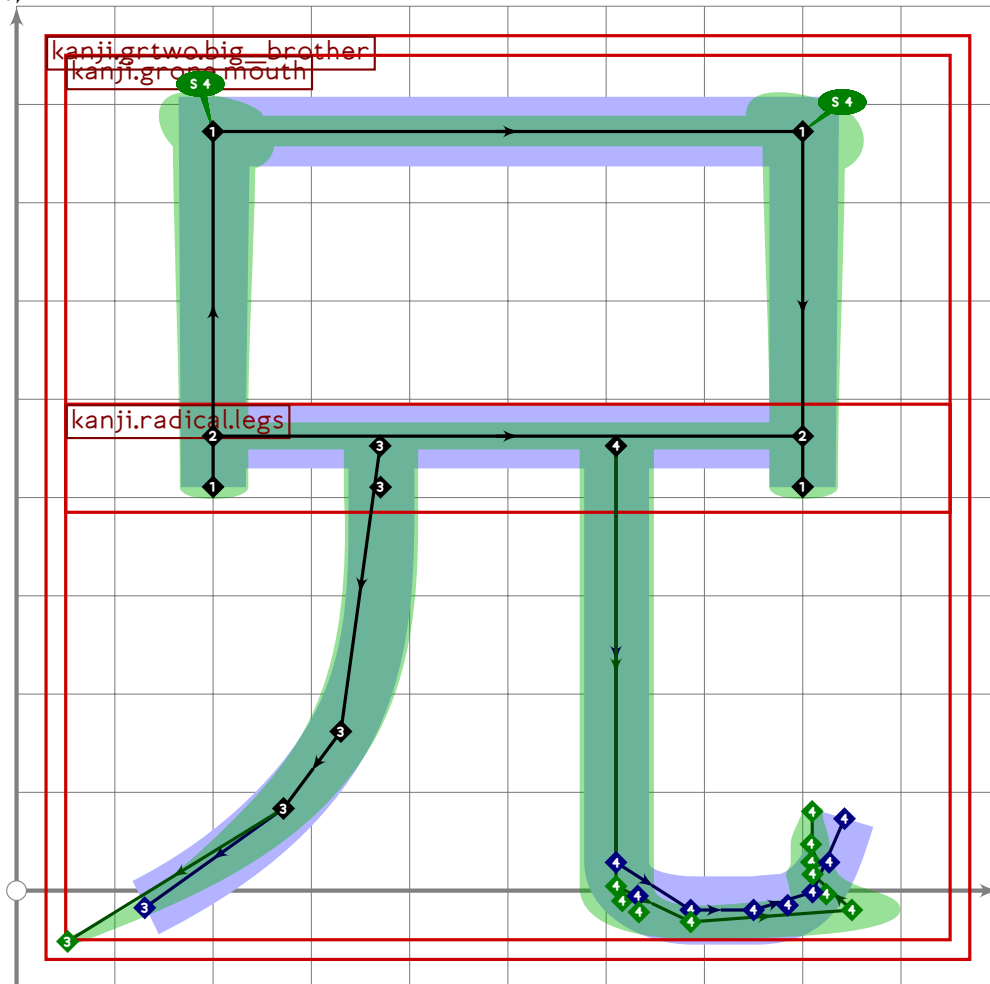
```
42   replace_stroke(-3)(subpath
```

TWO

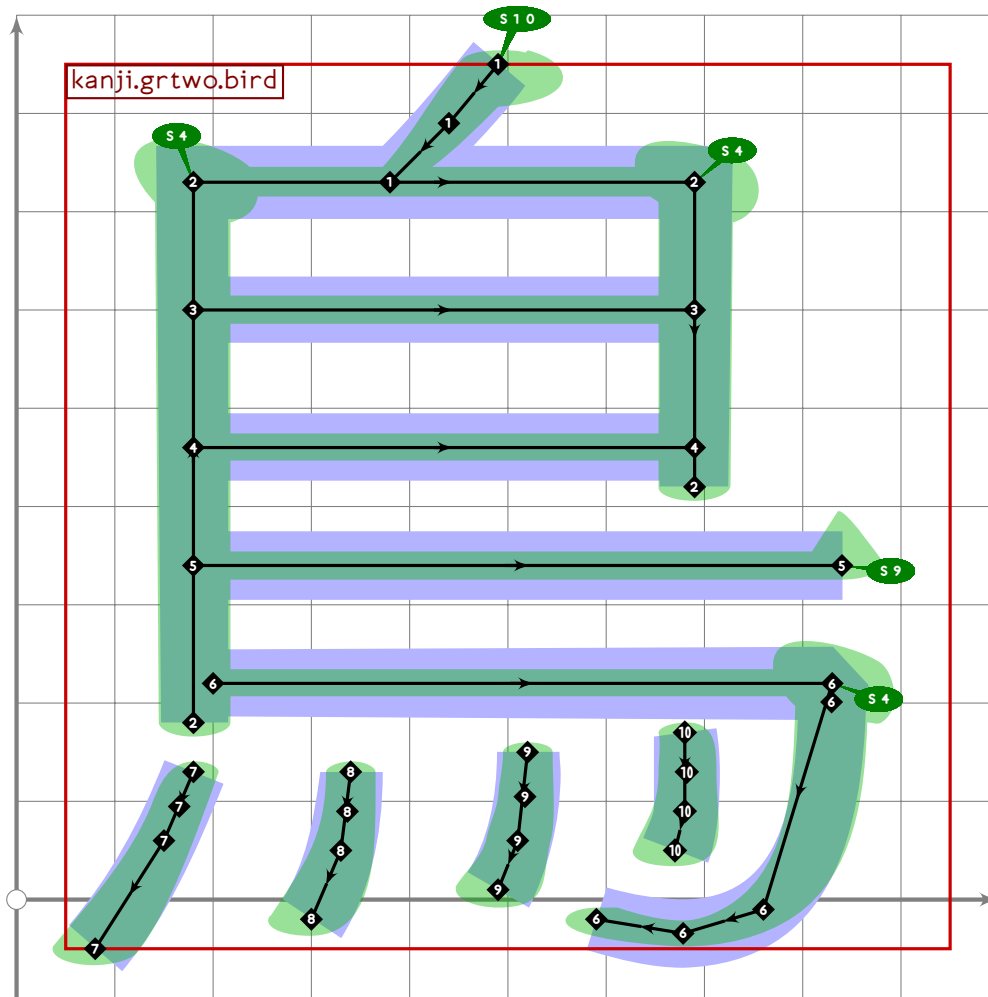
U+5144
tsuku.uni5144

```
43 (0.01*xpart (oldp intersectiontimes get_strokep(-4)),1) of oldp);  
44 replace_strokep(-1)(subpath  
45 (xpart (oldp intersectiontimes get_strokep(-3)),infinity) of oldp);  
46 set_boserif(-1,0,whatever);  
47 expand_pbox;  
48 enddef;
```

TWO



```
49  
50 vardef kanji.grtwo.big_brother =  
51   push_pbox_toexpand("kanji.grtwo.big_brother");  
52   build_kanji.level(build_kanji.tb(440,110)  
53     (kanji.grone.mouth)  
54     (kanji.radical.legs));  
55   expand_pbox;  
56 enddef;
```



TWO

```

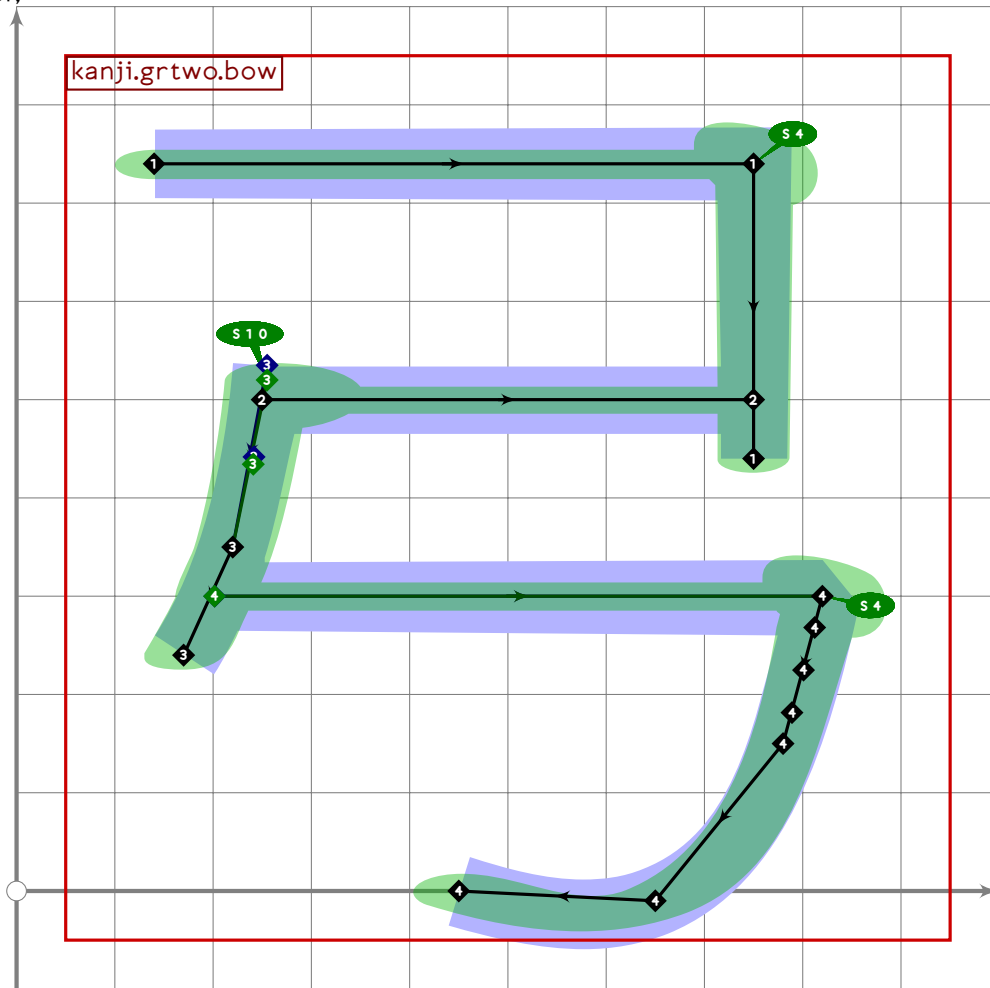
57
58 vardef kanji.grtwo.bird =
59   push_pbox_toexpand("kanji.grtwo.bird");
60   push_stroke((490,850){curl 0.1}..(440,790)..(380,730),
61     (1.6,1.6)–(1.4,1.4)–(1.1,1.1));
62   set_boserif(0,0,10);
63   push_stroke((180,180)–(180,730)–(690,730)–(690,420),
64     (1.5,1.5)–(1.6,1.6)–(1.6,1.6)–(1.5,1.5));
65   set_boserif(0,1,4);
66   set_boserif(0,2,4);
67   set_botip(0,1,1);
68   set_botip(0,2,1);
69   push_stroke((180,600)–(690,600),
70     (1.5,1.5)–(1.5,1.5));
71   push_stroke((180,460)–(690,460),
72     (1.5,1.5)–(1.5,1.5));
73   push_stroke((180,340)–(840,340),
74     (1.5,1.5)–(1.6,1.6));
75   set_boserif(0,1,9);
76   push_stroke((200,220)–(830,220){dir 268}..(760,-10)..{curl 0.2}(590,-20),
77     (1.5,1.5)–(1.5,1.5)–(1.5,1.5)–(1.5,1.5)–(1.4,1.4)–(1.2,1.2));

```

U+5F13
tsuku.uni5F13

TWO

```
78 replace_stroke(0)(insert_nodes(oldp)((length oldp)-0.5));
79 set_boserif(0,1,4);
80 set_botip(0,1,1);
81 push_stroke((180,130)..tension 1.2..(150,60)..(80,-50),
82   (1.2,1.2)-(1.4,1.4)-(1.7,1.7));
83 push_stroke((340,130)..tension 1.2..(330,50)..(300,-20),
84   (1.2,1.2)-(1.4,1.4)-(1.7,1.7));
85 push_stroke((520,150)..tension 1.2..(510,60)..(490,10),
86   (1.2,1.2)-(1.4,1.4)-(1.7,1.7));
87 push_stroke((680,170)..tension 1.2..(680,90)..(670,50),
88   (1.2,1.2)-(1.4,1.4)-(1.7,1.7));
89 expand_pbox;
90 enddef;
```

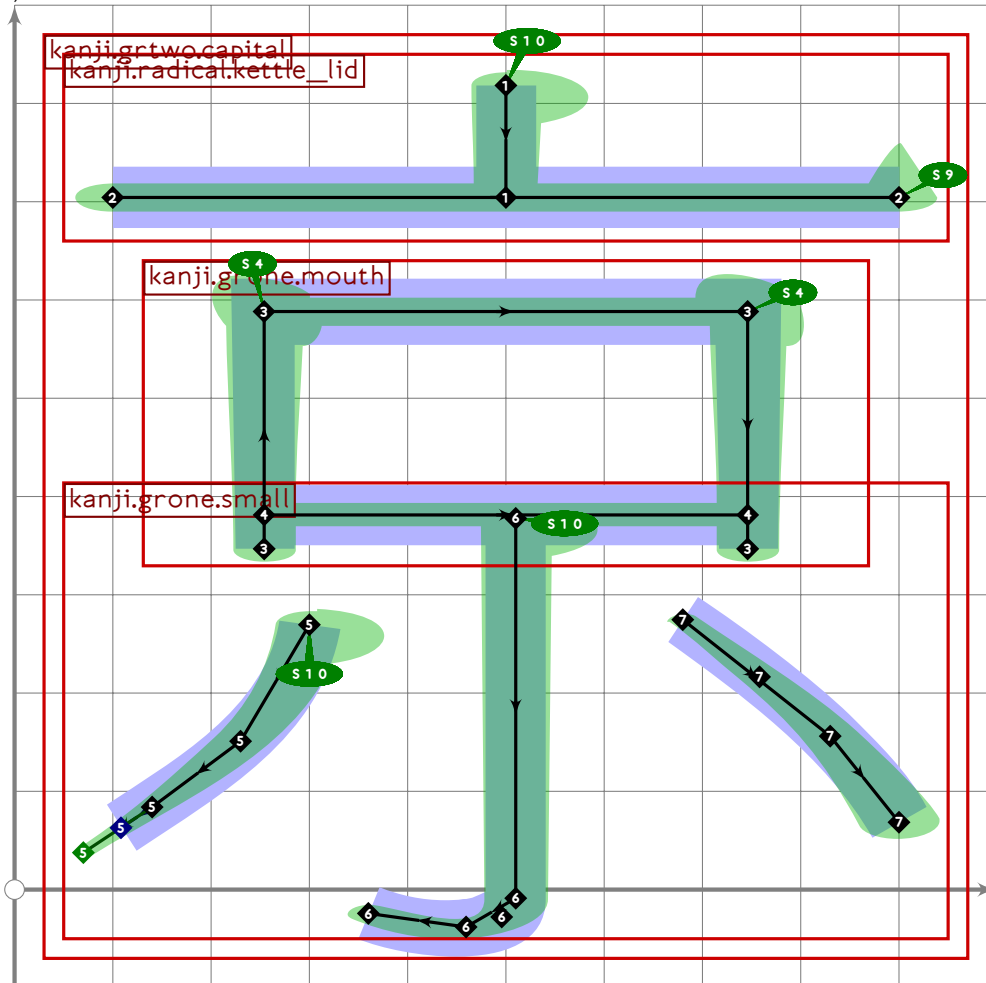


```
91
92 vardef kanji.grtwo.bow =
93   push_pbox_toexpand("kanji.grtwo.bow");
94   push_stroke((140,740)-(750,740)-(750,440),
95     (1.6,1.6)-(1.6,1.6)-(1.5,1.5));
96   set_botip(0,1,1);
97   set_boserif(0,1,4);
98   push_stroke((250,500)-(750,500),
```

```

99      (1.5,1.5)-(1.5,1.5));
100 push_stroke((255,535-15*mincho)..tension 1.2..(220,350)..(170,240),
101      (1.7,1.7)-(1.6,1.6)-(1.6,1.6));
102 set_boserif(0,0,10);
103 push_stroke((get_strokep(0) intersectionpoint ((0,300)-(1000,300)))-
104      (820,300)..tension 1.7..(780,150)..(650,-10)..{curl 0.1}(450,0),
105      (1.6,1.6)-(1.6,1.6)-(1.5,1.5)-(1.7,1.7)-(1.8,1.8));
106 set_botip(0,1,1);
107 set_boserif(0,1,4);
108 expand_pbox;
109 enddef;

```



```

110
111 vardef kanji.grtwo.capital =
112   push_pbox_toexpand("kanji.grtwo.capital");
113   build_kanji.level(build_kanji.tb(650,20)
114     (kanji.radical.kettle_lid)
115     (build_kanji.tb(500,110)
116       (build_kanji.sscale(xscaled 0.82)(kanji.grone.mouth))
117       (kanji.grone.small)));
118   set_boserif(0,0,whatever);
119   expand_pbox;

```

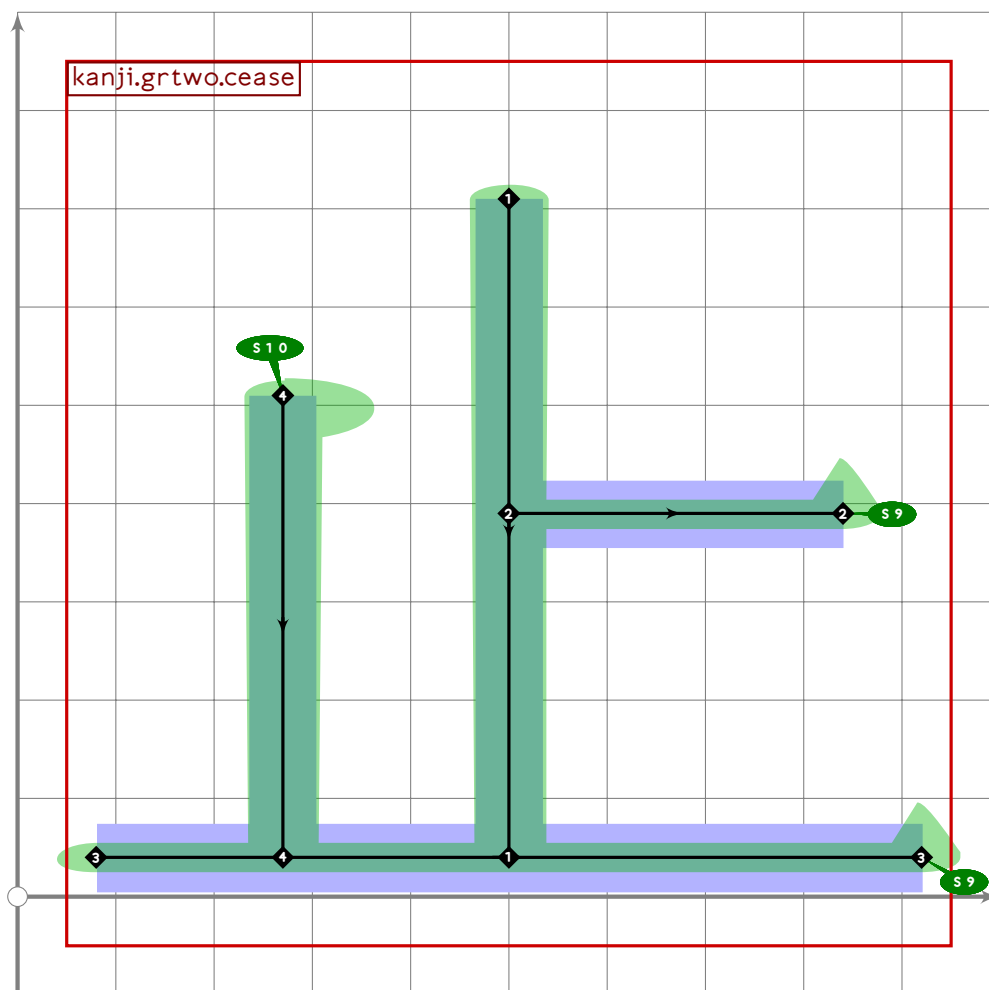
TWO

U+6B62
tsuku.uni6B62

120 endif;

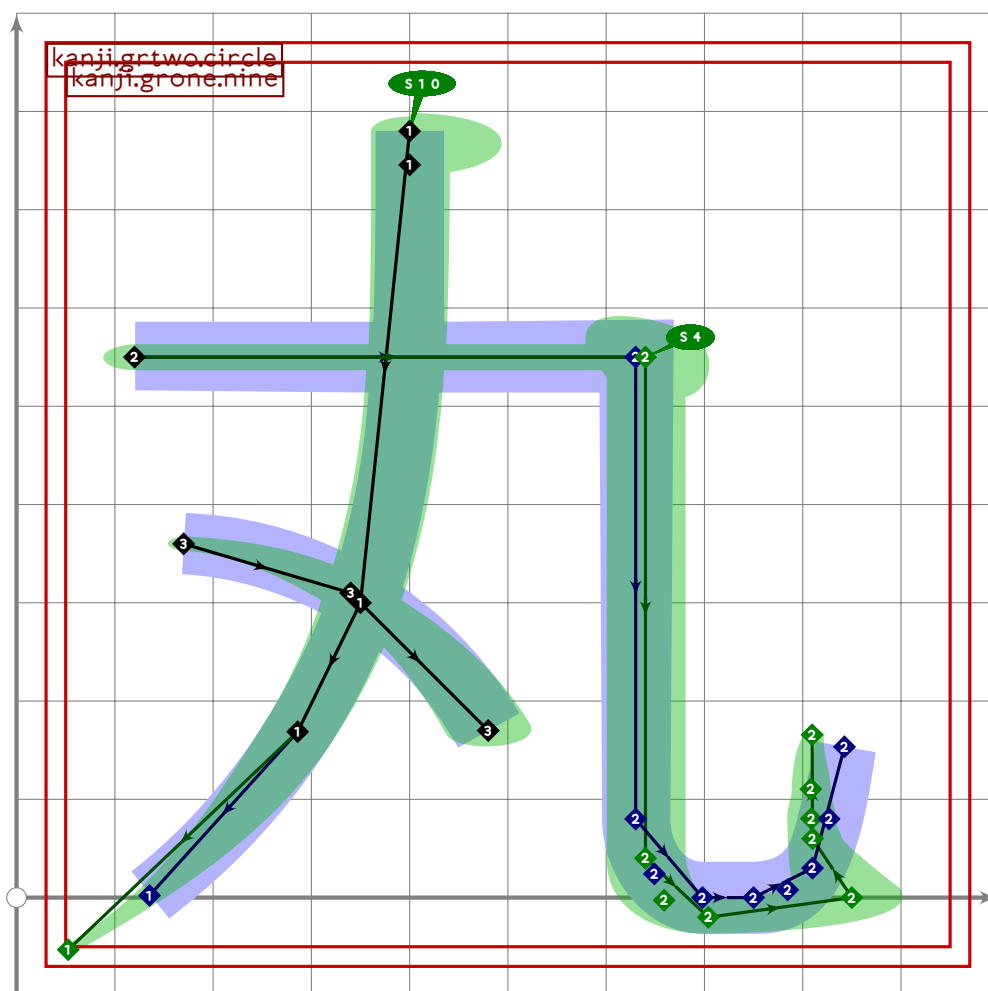
121

TWO



```

122 % can't use "stop," it is reserved by Metafont
123 vardef kanji.grtwo.cease =
124   push_pbox_toexpand("kanji.grtwo.cease");
125   push_stroke((500,710)-(500,40),(1.6,1.6)-(1.5,1.5));
126   push_stroke((500,390)-(840,390),(1.5,1.5)-(1.6,1.6));
127   set_boserif(0,1,9);
128   push_stroke((80,40)-(920,40),(1.6,1.6)-(1.6,1.6));
129   set_boserif(0,1,9);
130   push_stroke((270,510)-(270,40),(1.6,1.6)-(1.5,1.5));
131   set_boserif(0,0,10);
132   expand_pbox;
133 endif;
```

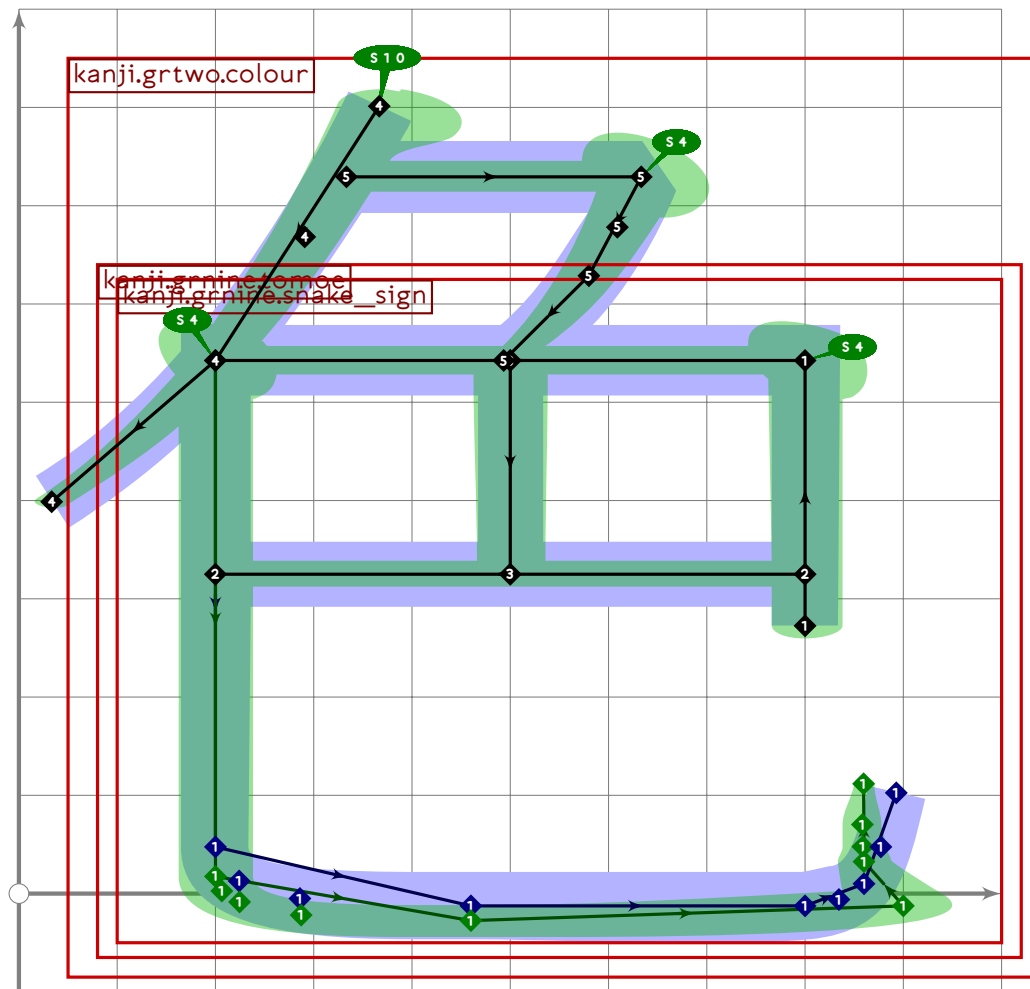
TWO

```

134
135 vardef kanji.grtwo.circle =
136   push_pbox_toexpand("kanji.grtwo.circle");
137   kanji.grone.nine;
138   push_stroke((170,360)..(340,310)..(480,170),
139     (1,1)-(14,14)-(17,17));
140   expand_pbox;
141 enddef;

```

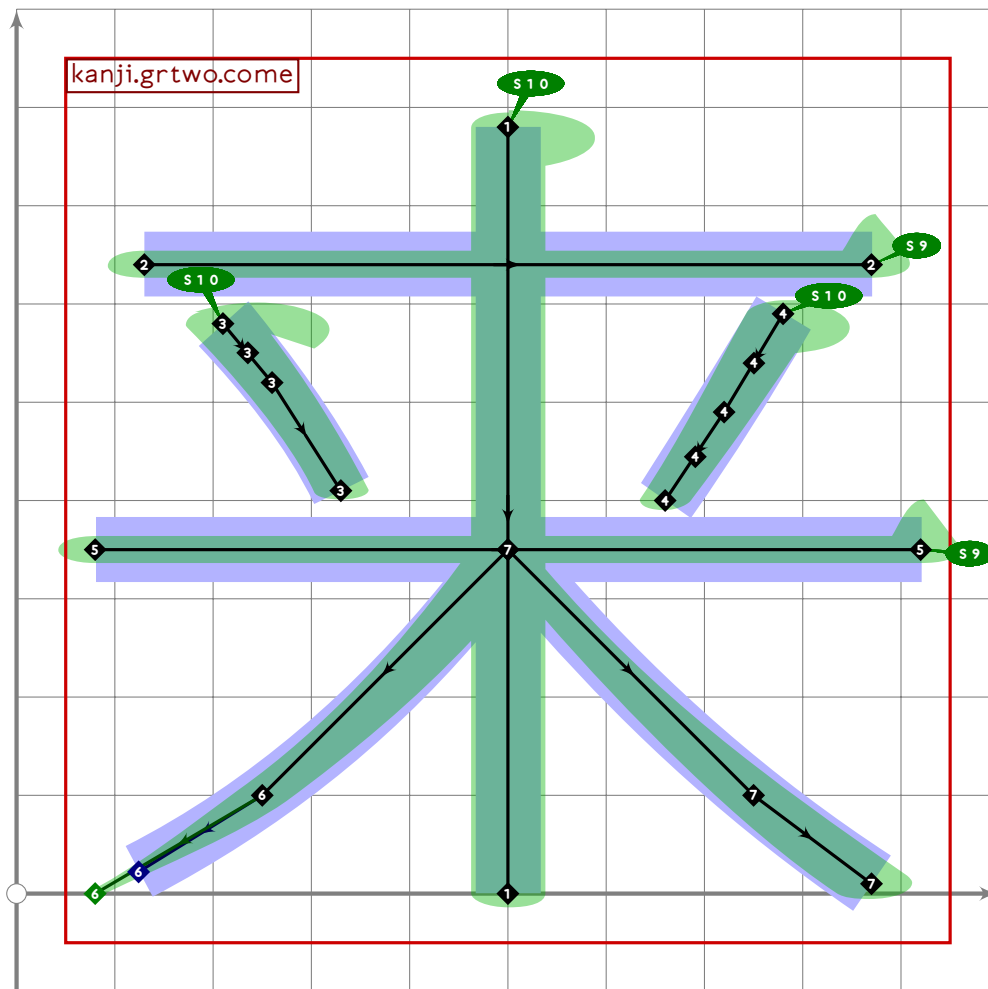
TWO



```

142
143 vardef kanji.grtwo.colour =
144   push_pbox_toexpand("kanji.grtwo.colour");
145   build_kanji.attach_fishhook(0.75)
146   (tsu_xform(identity shifted (50,0))(kanji.grnine.tomoe));
147   expand_pbox;
148 enddef;

```



TWO

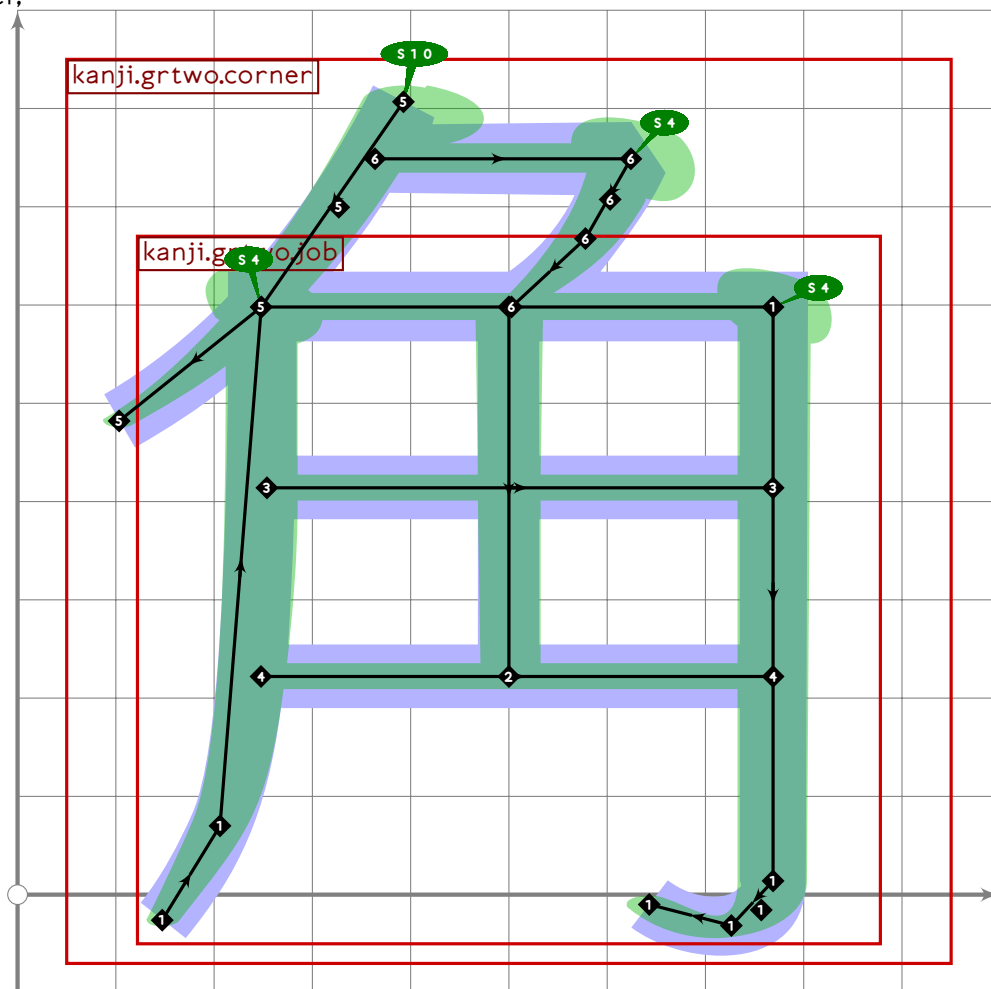
```

149
150 vardef kanji.grtwo.come =
151   push_pbox_toexpand("kanji.grtwo.come");
152   push_stroke((500,780)-(500,0),(1.6,1.6)-(1.6,1.6));
153   set_boserif(0,0,10);
154   push_stroke((130,640)-(870,640),(1.6,1.6)-(1.6,1.6));
155   set_boserif(0,1,9);
156   push_stroke((210,580)..tension 1.2..(260,520)..(330,410),
157     (1.6,1.6)-(1.5,1.5)-(1.3,1.3));
158   set_boserif(0,0,10);
159   push_stroke((780,590)..tension 1.2..(720,490)..(660,400),
160     (1.6,1.6)-(1.5,1.5)-(1.3,1.3));
161   set_boserif(0,0,10);
162   push_stroke((80,350)-(920,350),(1.6,1.6)-(1.6,1.6));
163   set_boserif(0,1,9);
164   push_stroke((500,350)..(250,100)..(80,0),
165     (1.6,1.6)..(1.3,1.3)..(0.9,0.9));
166   push_stroke((500,350)..(750,100)..(870,10),
167     (1.1,1.1)..(1.5,1.5)..(1.7,1.7));
168   for i=-6 upto 0: set_bosize(i,94); endfor;
169   expand_pbox;

```

U+89D2
tsuku.uni89D2

170 endif;



171

172 vardef kanji.grtwo.corner =

173 push_pbox_toexpand("kanji.grtwo.corner");

174 build_kanji.attach_fishhook(0.8)(

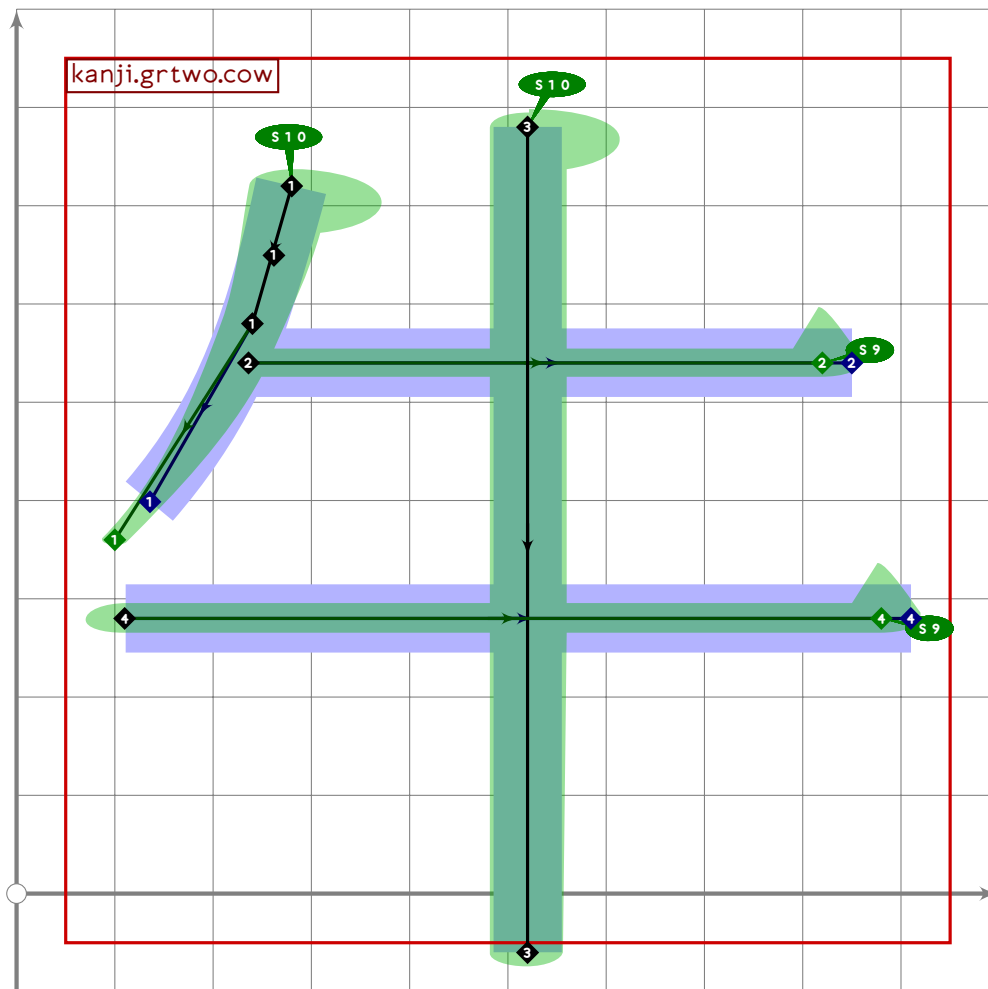
175 build_kanji.sscale(xscaled 0.84)(kanji.grtwo.job);

176 replace_strokep(-2)((500,760)-(500,290)));

177 expand_pbox;

178 endif;

TWO



TWO

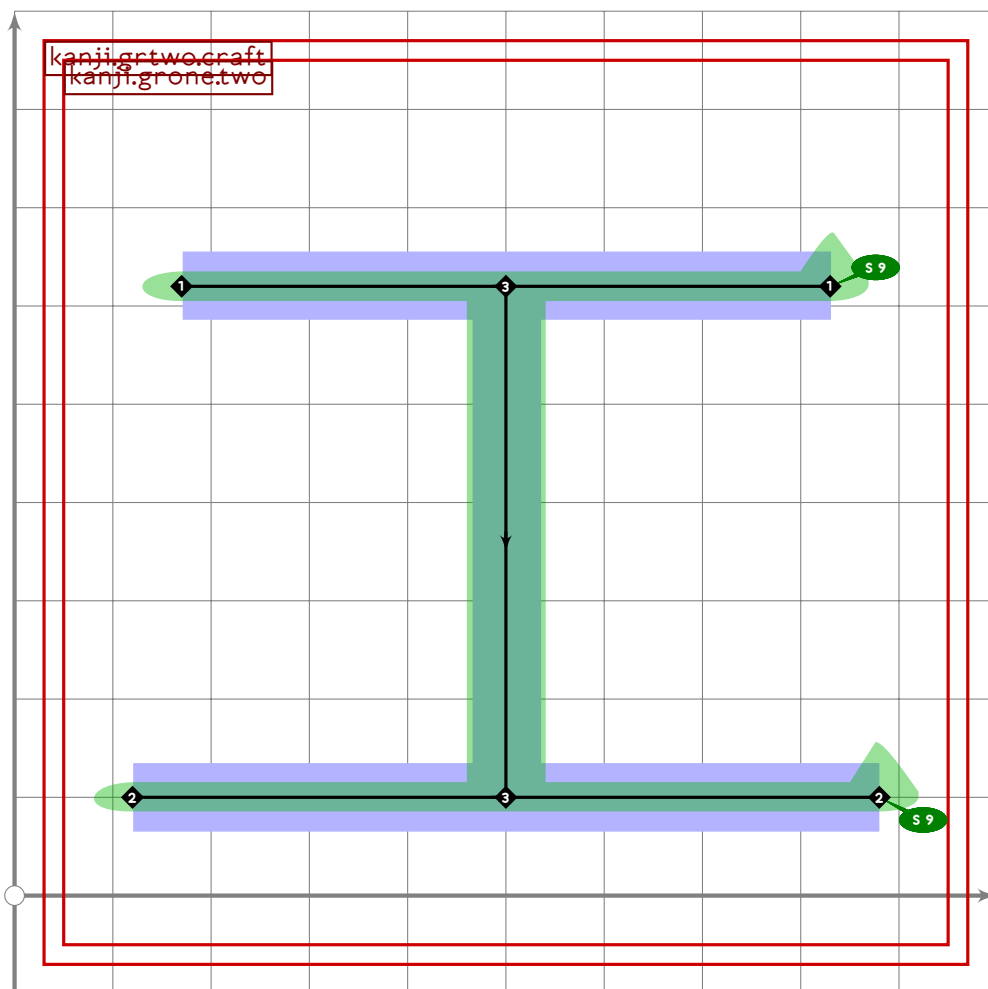
```

179
180 vardef kanji.grtwo.cow =
181   push_pbox_toexpand("kanji.grtwo.cow");
182   push_stroke(((280,720)..tension 1.2..(240,580)..(100,360),
183     (1,7,1,7)-(1,4,1,4)-(0,9,0,9));
184   set_boserif(0,0,10);
185   push_stroke((((0,540)-(1000,540)) intersectionpoint
186     get_strokep(0)+(12,0)-(850-30*mincho,540),
187     (1,6,1,6)-(1,6,1,6));
188   set_boserif(0,1,9);
189   push_stroke((520,780)-(520,-60),(1,6,1,6)-(1,5,1,5));
190   set_boserif(0,0,10);
191   push_stroke((110,280)-(910-30*mincho,280),(1,6,1,6)-(1,6,1,6));
192   set_boserif(0,1,9);
193   expand_pbox;
194 enddef;

```

U+5DE5
tsuku.uni5DE5

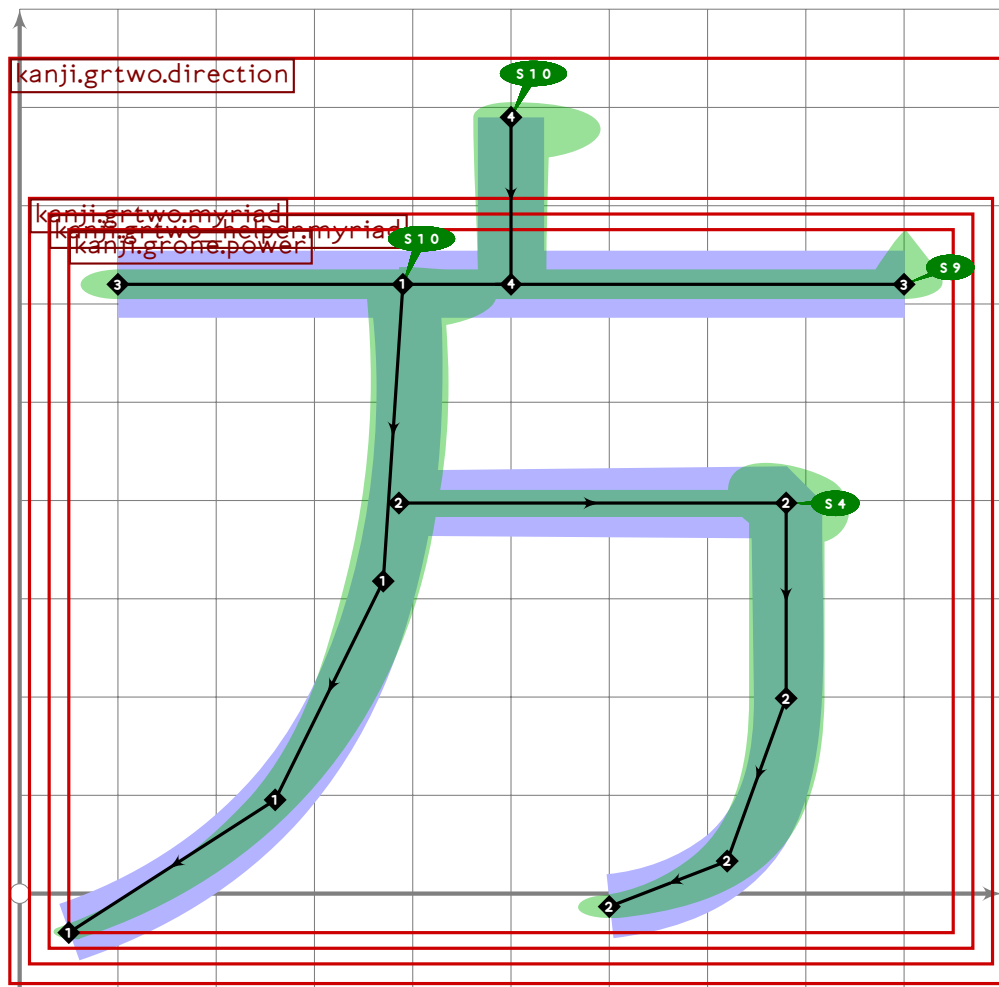
TWO



```

195
196 vardef kanji.grtwo.craft =
197   push_pbox_toexpand("kanji.grtwo.craft");
198   kanji.grone.two;
199   push_stroke((point 0.5 of get_stroke(-1))-(point 0.5 of get_stroke(0)),
200     (1.6,1.6)-(1.6,1.6));
201   expand_pbox;
202 enddef;

```



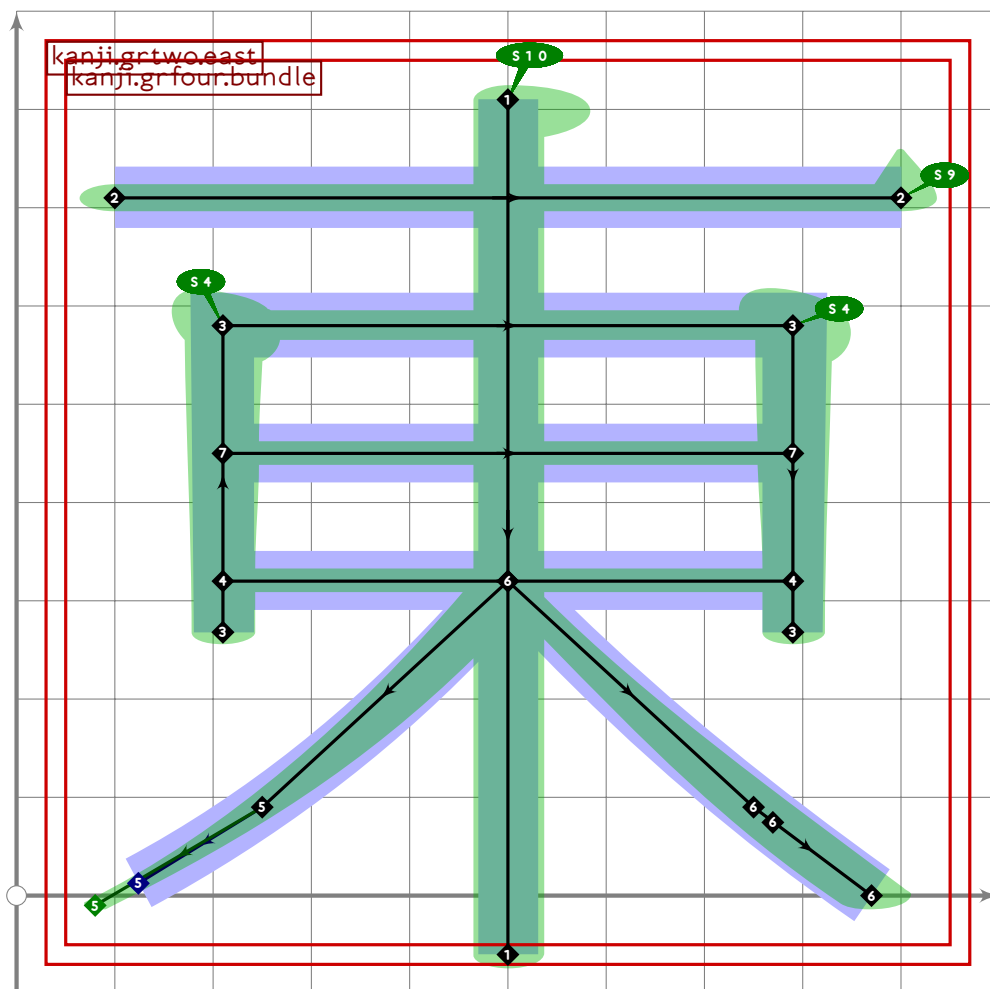
TWO

```

203
204 vardef kanji.grtwo.direction =
205   push_pbox_toexpand("kanji.grtwo.direction");
206   build_kanji.level(
207     tsu_xform(identity yscaled (620/780))
208     (kanji.grtwo.myriad);
209     push_stroke((500,790)..(500,620),(1.6,1.6)-(1.5,1.5));
210     set_boserif(0,0,10);
211   );
212   expand_pbox;
213 enddef;

```

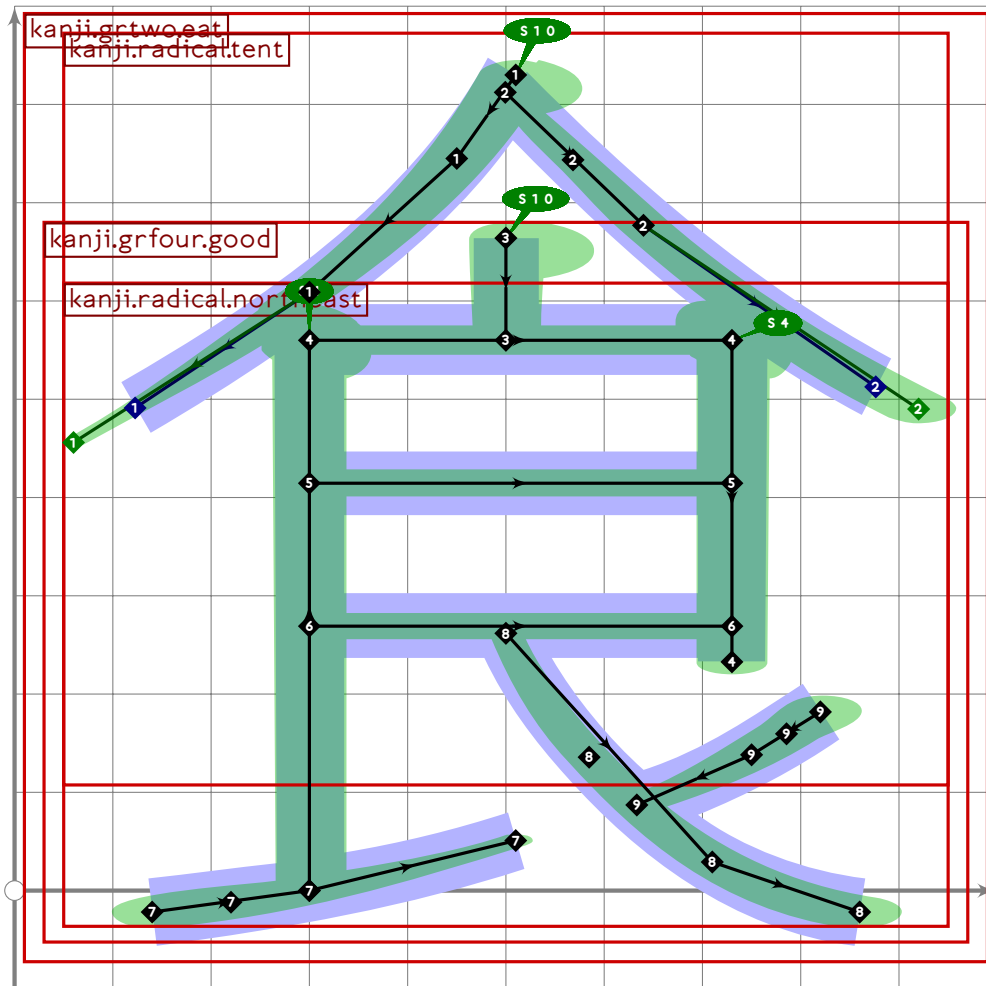
TWO



```

214
215 vardef kanji.grtwo.east =
216   push_pbox_toexpand("kanji.grtwo.east");
217   kanji.grfour.bundle;
218   push_stroke((210,450)-(790,450),(1.5,1.5)-(1.5,1.5));
219   set_bosize(0,get_bosize(-1));
220   expand_pbox;
221 enddef;

```

TWO

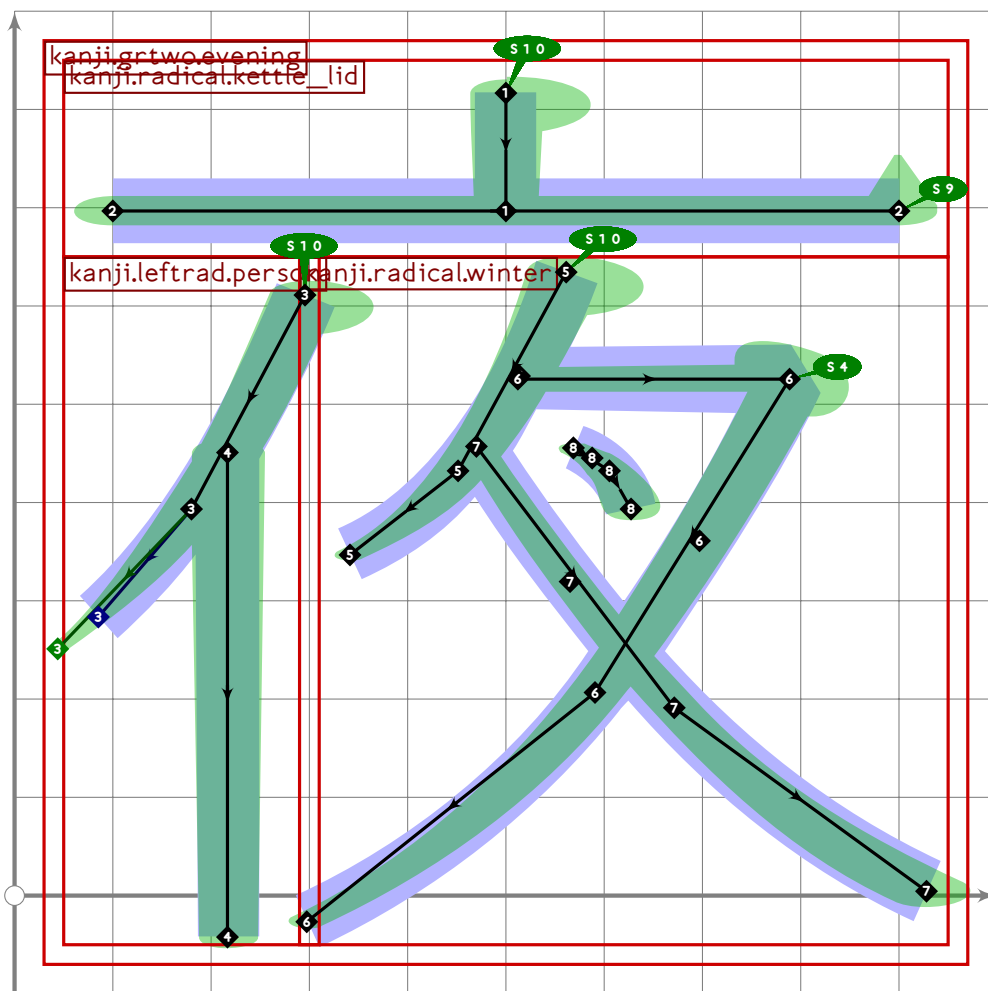
```

222
223 vardef kanji.grtwo.eat =
224   push_pbox_toexpand("kanji.grtwo.eat");
225   build_kanji.level(
226     tsu_xform(identity yscaled 0.85 shifted (0,150))
227       (kanji.radical.tent);
228     pop_stroke;
229     tsu_xform(identity yscaled 0.8)(kanji.grfour.good));
230   expand_pbox;
231 enddef;

```

U+591C
tsuku.uni591C

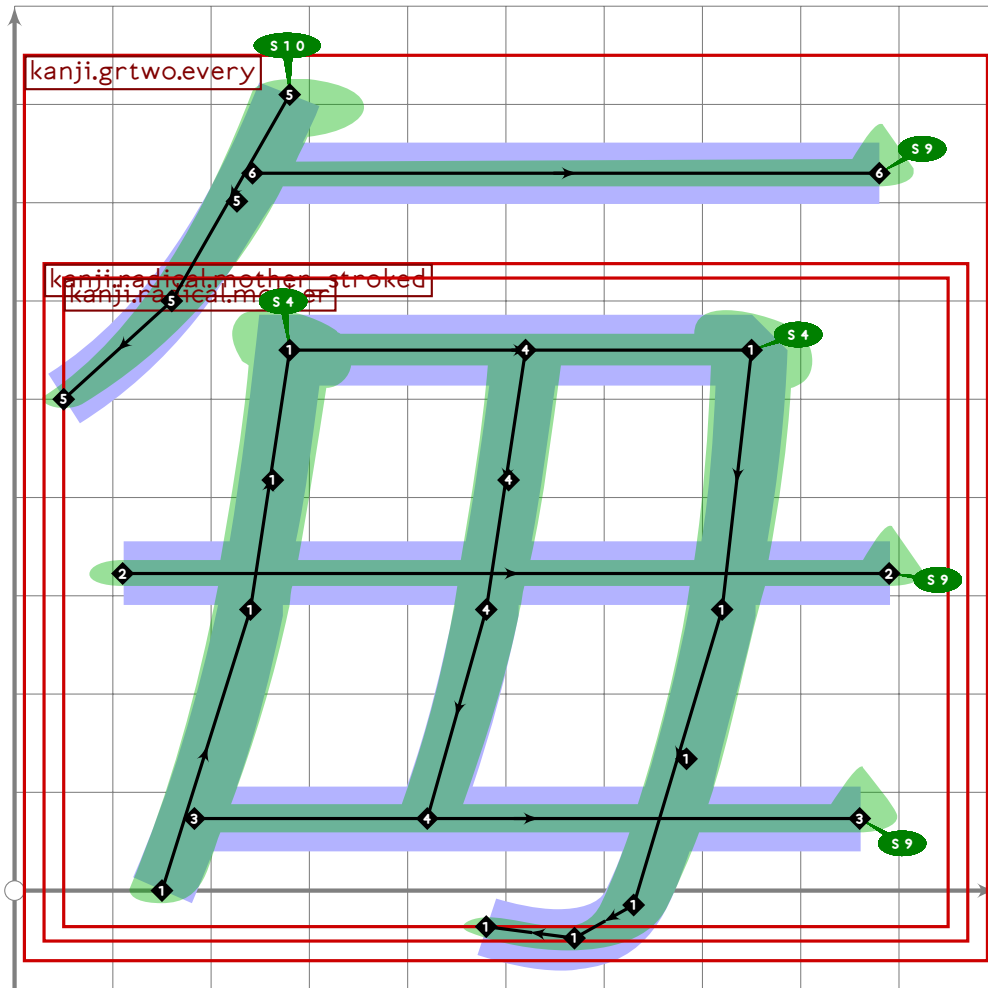
TWO



```

232
233 vardef kanji.grtwo.evening =
234   push_pbox_toexpand("kanji.grtwo.evening");
235   build_kanji.level(build_kanji.tb(650,0)
236     (kanji.radical.kettle_lid)
237     (build_kanji.lr(300,20)
238       (kanji.leftrad.person)
239       (kanji.radical.winter;
240         push_stroke(
241           (430,600)..tension 1.2..(480,570)..(510,520),
242           (1,1,1)-(14,1,4)-(1.6,1.6)))));
243   set_bosize(0,73);
244   expand_pbox;
245 enddef;

```



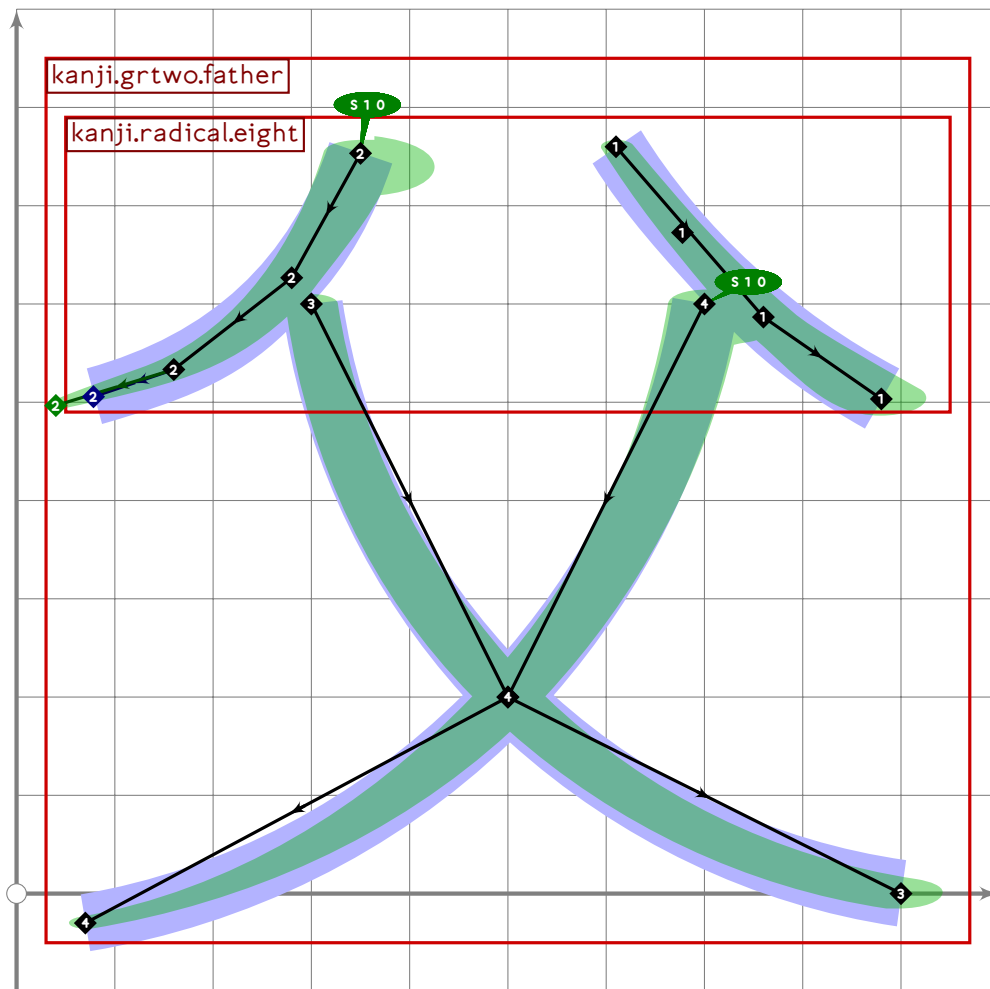
TWO

```

246
247 vardef kanji.grtwo.every =
248   push_pbox_toexpand("kanji.grtwo.every");
249   tsu_xform(identity yscaled (550/750))
250   (kanji.radical.mother_stroked);
251   push_stroke((280,810)..tension 1.2..(160,600)..(50,500),
252     (1.7,1.7)–(1.5,1.5)–(1.2,1.2));
253   set_boserif(0,0,10);
254   set_bosize(0,90);
255   push_stroke((get_stroke(0) intersectionpoint ((0,730)–(1000,730)))–
256     (880,730),
257     (1.5,1.5)–(1.6,1.6));
258   set_boserif(0,1,9);
259   set_bosize(0,90);
260   expand_pbox;
261 enddef;

```

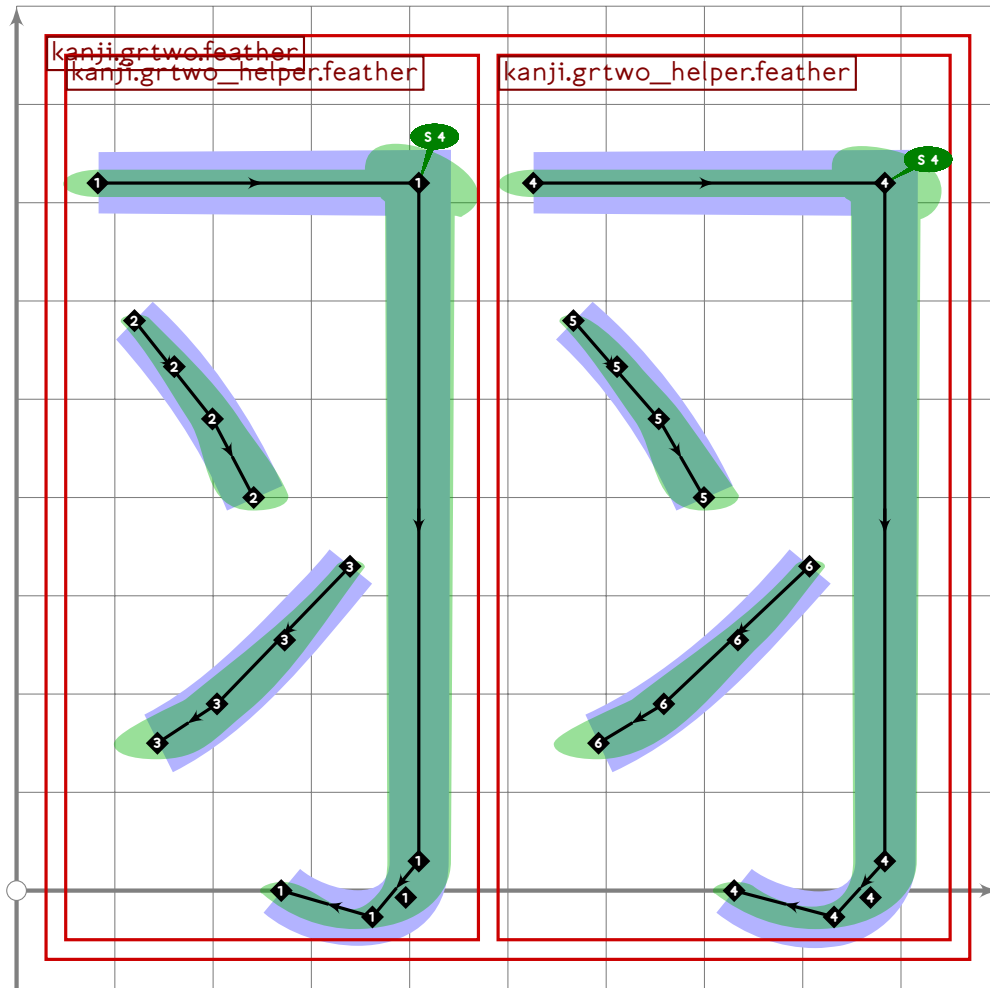
TWO



```

262
263 vardef kanji.grtwo.father =
264   push_pbox_toexpand("kanji.grtwo.father");
265   build_kanji.level(build_kanji.tb(700,300)
266     (tsu_xform(identity shifted (0,-180))(kanji.radical.eight))
267     (push_stroke((300,600)..(500,200)..(900,0),
268       (1.3,1.3)-(1.5,1.5)-(1.7,1.7));
269     push_stroke((700,600)..(500,200)..(70,-30),
270       (1.6,1.6)-(1.5,1.5)-(1,1));
271     set_boserif(0,0,10);
272   ));
273   expand_pbox;
274 enddef;

```



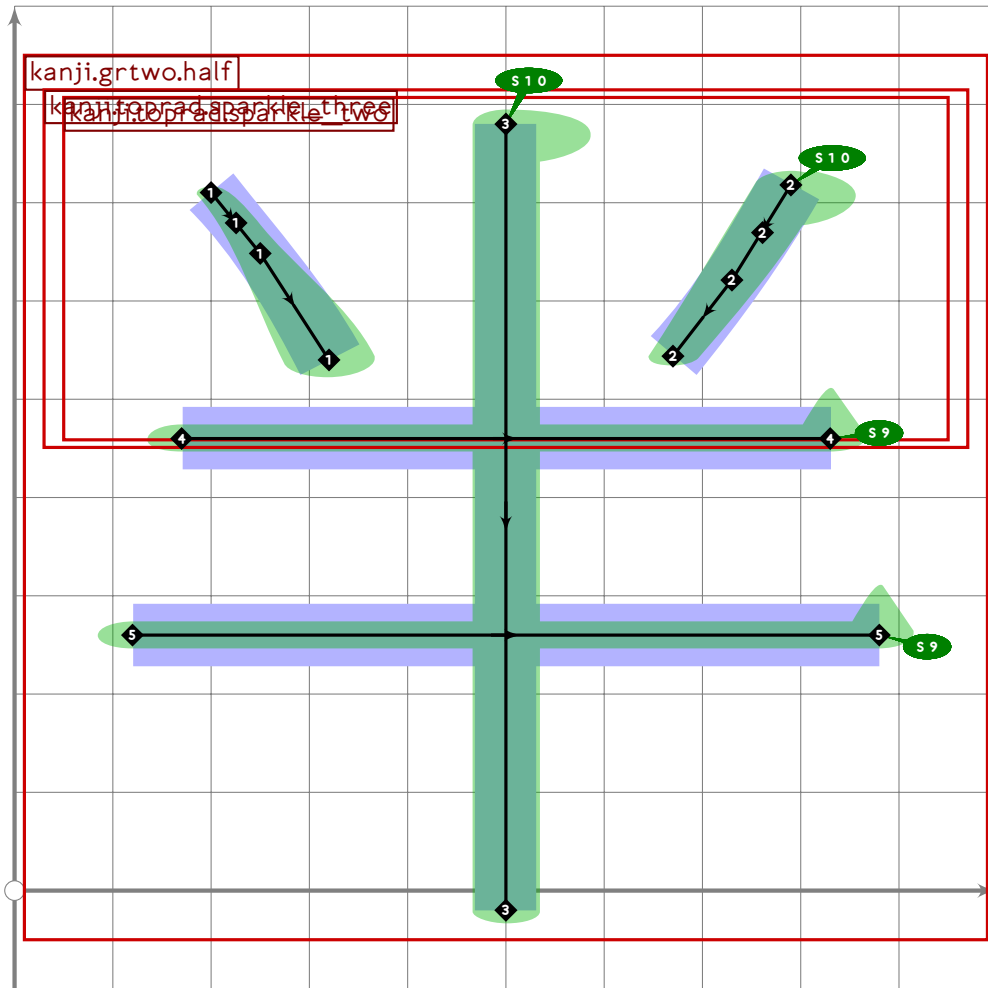
TWO

```

275
276 vardef kanji.grtwo.feather =
277   push_pbox_toexpand("kanji.grtwo.feather");
278   build_kanji.lr(480,-20)
279     (kanji.grtwo_helper.feather)
280     (kanji.grtwo_helper.feather);
281   expand_pbox;
282 enddef;

```

TWO



```

283
284 vardef kanji.grtwo.half =
285   push_pbox_toexpand("kanji.grtwo.half");
286   build_kanji.level(begingroup
287     save saved_path,mytr;
288     path saved_path;
289     transform mytr;
290     xpart mytr=xypart mytr=yxpart mytr=0;
291     xxpart mytr=1;
292     (500,160) transformed mytr=(500,540);
293     (500,780) transformed mytr=(500,780);
294     tsu_xform(mytr)
295     (kanji.toprad.sparkle_three;savd_path:=get_strokep(0));
296     replace_strokep(0)(saved_path);
297     push_stroke((170,460)–(830,460),
298       (1.6,1.6)–(1.6,1.6));
299     set_boserif(0,1,9);
300     push_stroke((120,260)–(880,260),
301       (1.6,1.6)–(1.6,1.6));
302     set_boserif(0,1,9);
303   endgroup);

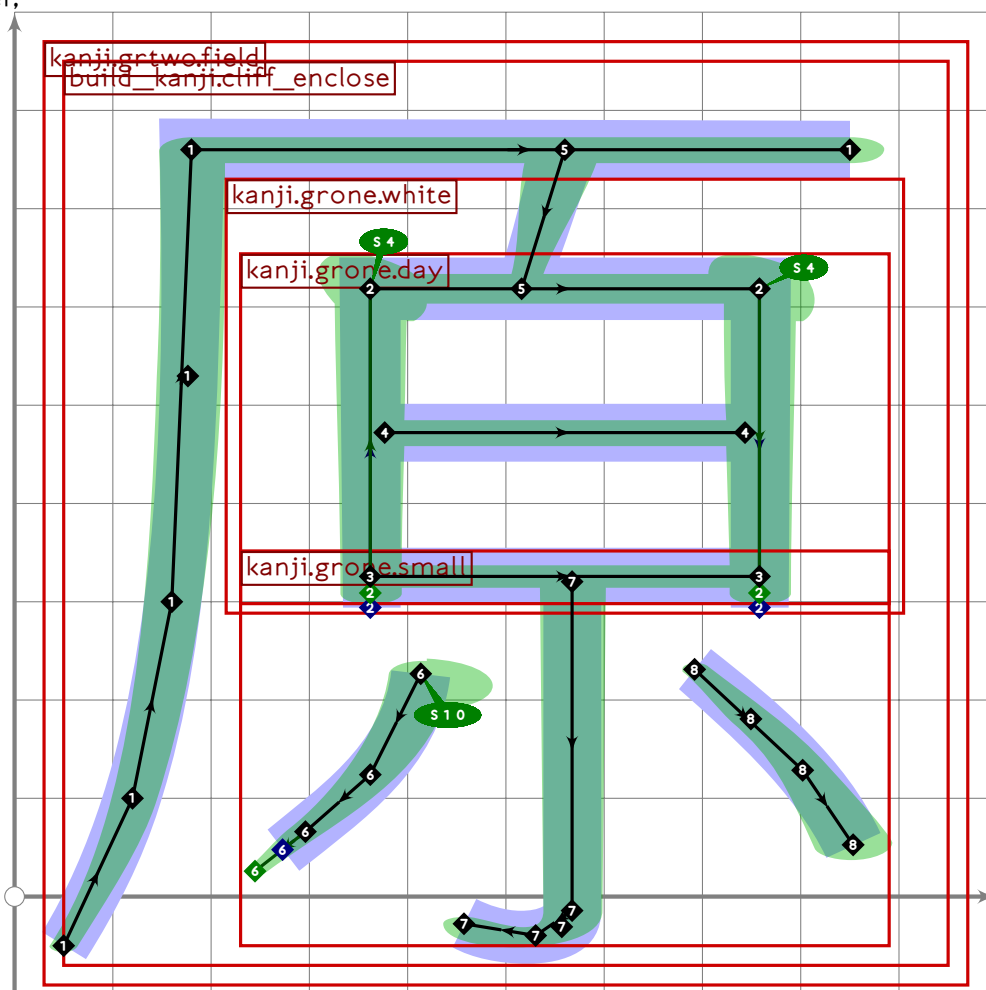
```

```

304 expand_pbox;
305 enddef;
306
307 vardef kanji.grtwo_helper.feather =
308   push_pbox_toexpand("kanji.grtwo_helper.feather");
309   push_stroke((60,720)-(410,720),(1.6,1.6)-(1.6,1.6));
310   build_kanji.add_jtail(0);
311   replace_strokep(0)(oldp xscaled 2);
312   set_botip(0,1,1);
313   set_boserif(0,1,4);
314   push_stroke((200,580)..tension 1.2..(370,480)..(460,400),
315     (1,1)-(1.3,1.3)-(1.6,1.6));
316   push_stroke((670,330)..tension 1.2..(380,190)..(250,150),
317     (1,1)-(1.6,1.6)-(1.9,1.9));
318   expand_pbox;
319 enddef;

```

TWO



```

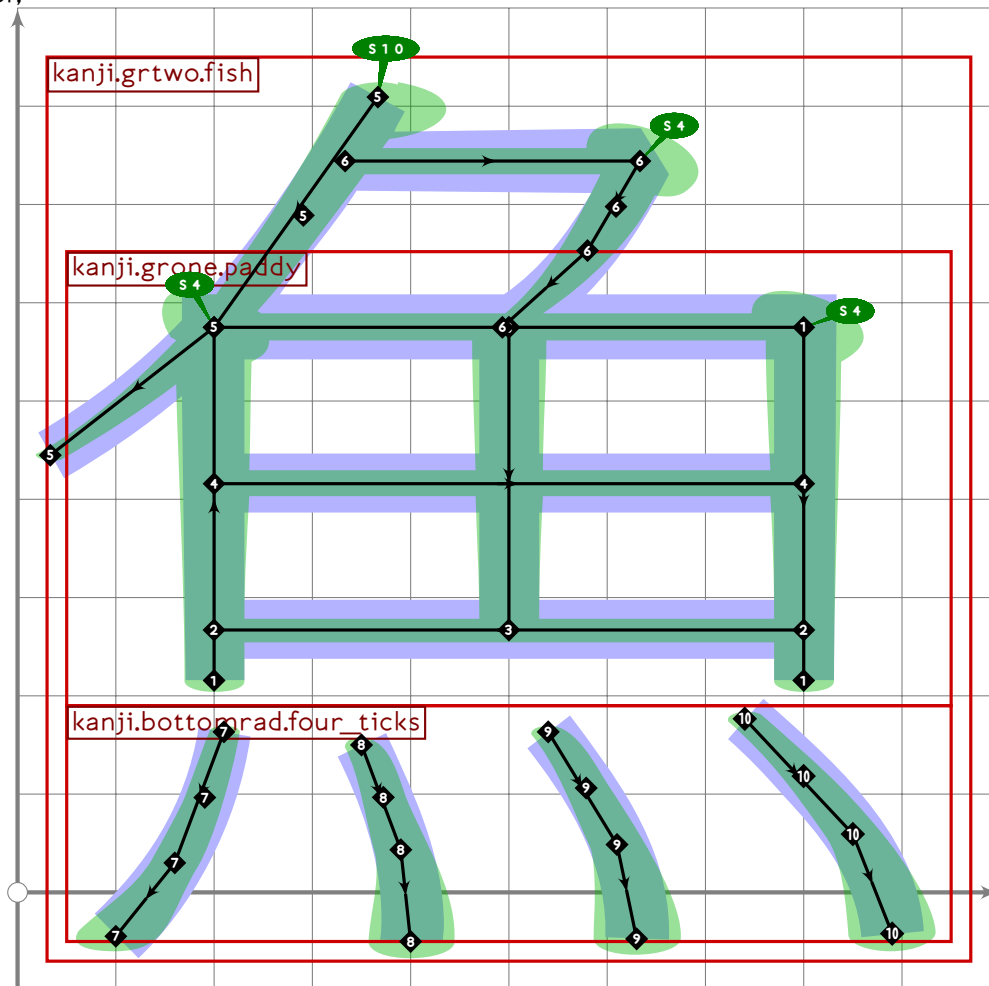
320
321 vardef kanji.grtwo.field =
322   push_pbox_toexpand("kanji.grtwo.field");
323   build_kanji.level(build_kanji.cliff_enclose(
324     build_kanji.tb(380,67)

```

U+9B5A
tsuku.uni9B5A

TWO

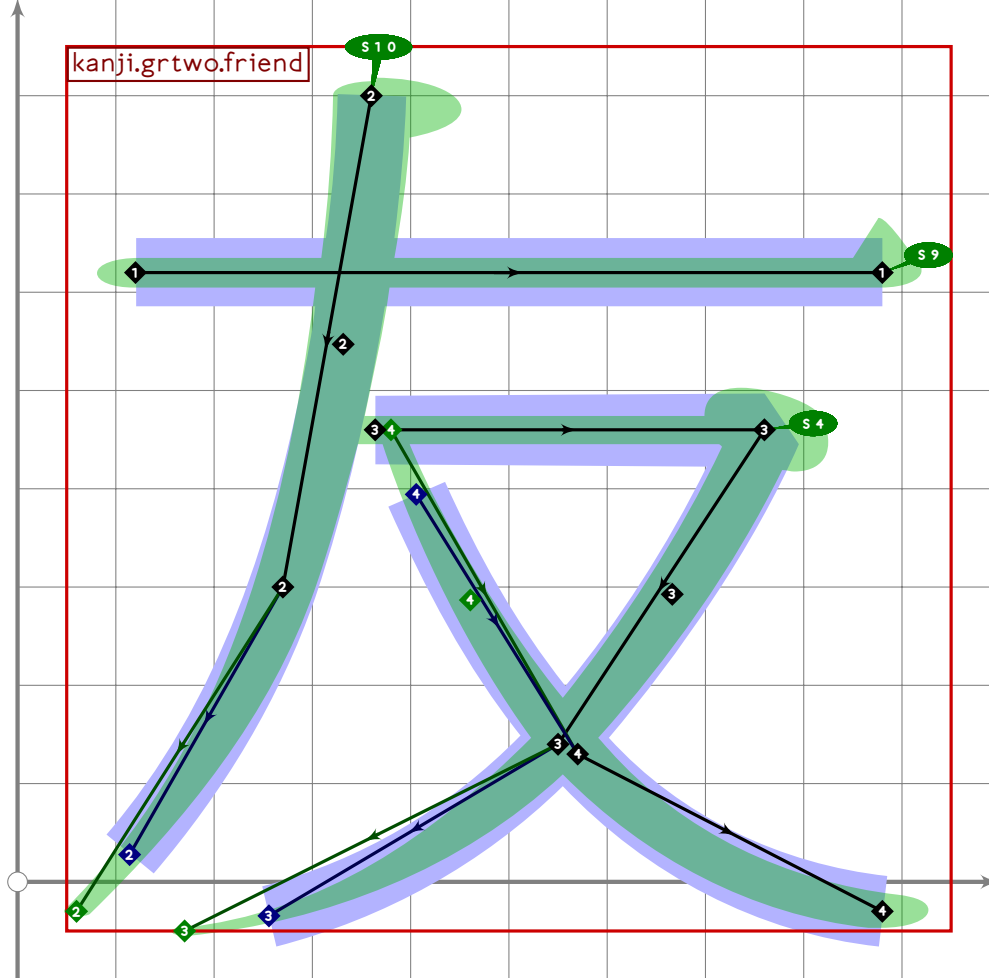
```
325     (kanji.grone.white)
326     (kanji.grone.small));
327   begingroup
328     save myxf;
329     transform myxf;
330     point 2 of get_strokep(-3) transformed myxf=point 2 of get_strokep(-3);
331     ypart (point 0 of get_strokep(-3) transformed myxf)=760;
332     xpart myxf=yxpart myxf=0;
333     xxpart myxf=1;
334     replace_strokep(-3)(oldp transformed myxf);
335   endgroup;
336   set_boserif(-3,0,whatever);
337   set_boserif(-1,0,whatever);
338   expand_pbox;
339 enddef;
```



```
340
341 vardef kanji.grtwo.fish =
342   push_pbox_toexpand("kanji.grtwo.fish");
343   build_kanji.level(build_kanji.tb(190,0)
344     (build_kanji.attach_fishhook(0.7)(kanji.grone.paddy))
345     (kanji.bottomrad.four_ticks));
```



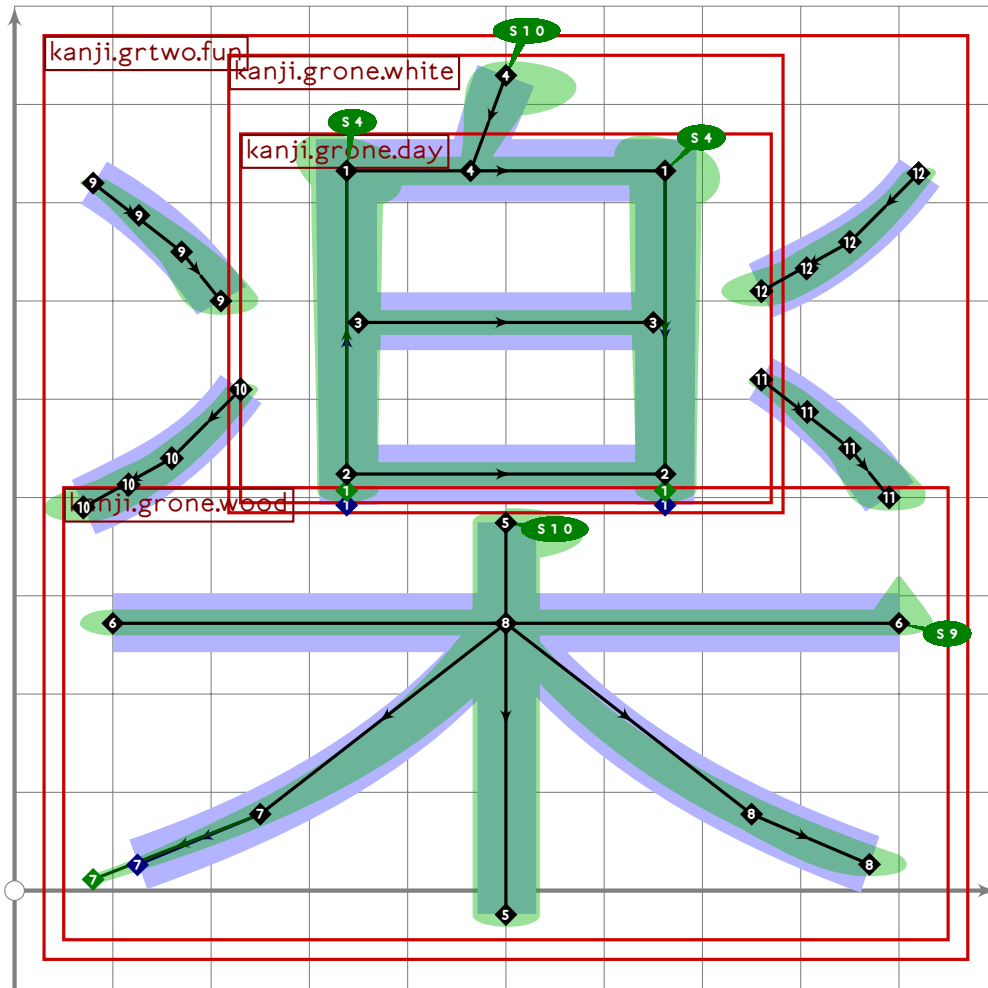
```
346 expand_pbox;
347 enddef;
```



TWO

```
348
349 vardef kanji.grtwo.friend =
350   push_pbox_toexpand("kanji.grtwo.friend");
351   build_kanji.lean_to((360,-30));
352   push_stroke(
353     ((50,0)+(get_stroke(0) intersectionpoint ((0,460)-(1000,460))))-
354     (760,460)..tension 1.2..(550,140)..(170,-50),
355     (1.6,1.6)-(1.5,1.5)-(1.4,1.4)-(0.9,0.9));
356   set_botip(0,1,0);
357   set_boserif(0,1,4);
358   push_stroke((380,460)..tension 1.2..(570,130)..(880,-30),
359     (0.9,0.9)-(1.4,1.4)-(1.8,1.8));
360   expand_pbox;
361 enddef;
```

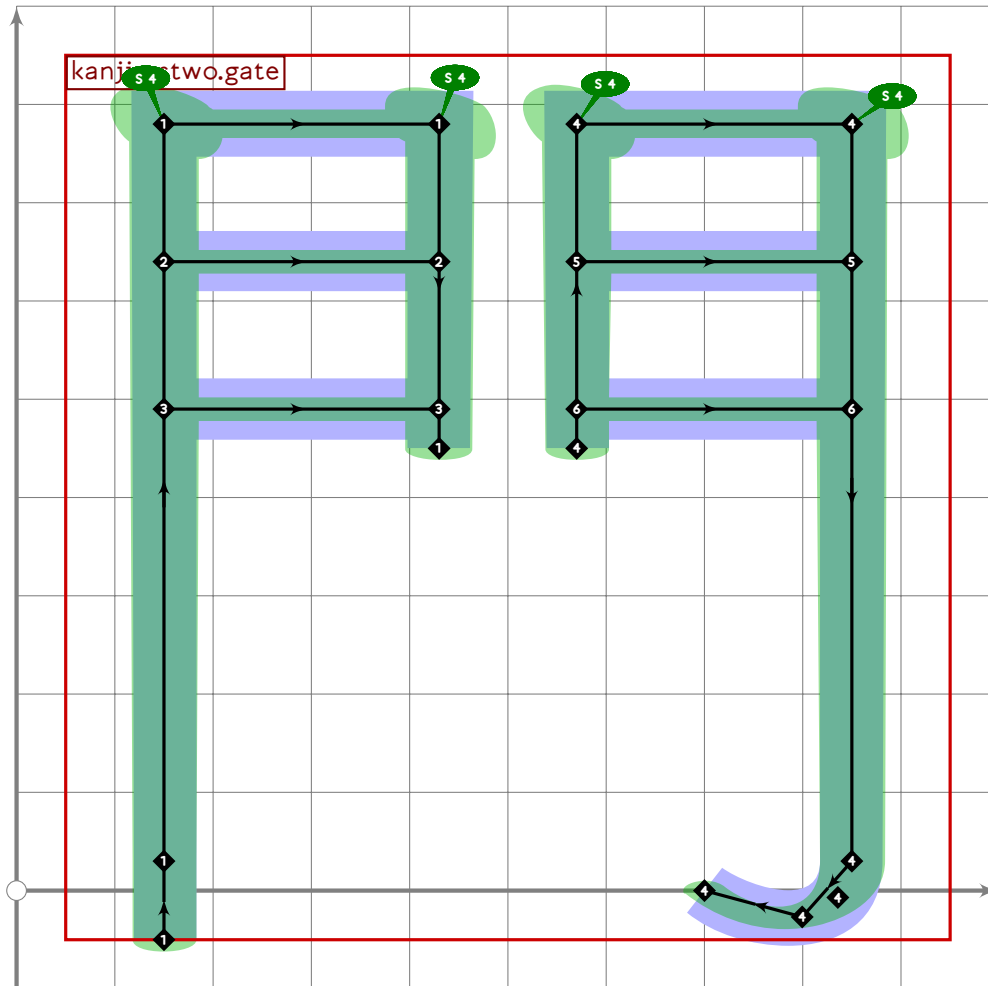
TWO



```

362
363 vardef kanji.grtwo.fun =
364   push_pbox_toexpand("kanji.grtwo.fun");
365   build_kanji.level(
366     build_kanji.tb(400,20)
367       (build_kanji.sscale(xscaled 0.6)(kanji.grone.white))
368       (kanji.grone.wood));
369   push_stroke((80,720)..tension 1.2..(170,650)..(210,600),
370     (1,1)-(1.5,1.5)-(1.8,1.8));
371   set_bosize(0,80);
372   push_stroke((230,510)..(160,440)..tension 1.2..(70,390),
373     (1,1,1)-(14,1,4)-(19,1,9));
374   set_bosize(0,80);
375   push_stroke(get_stroke(-1) shifted ((760,520)-point 0 of get_stroke(-1)),
376     get_stroke(-1));
377   set_bosize(0,80);
378   push_stroke(get_stroke(-1) shifted ((760,610)-point 2 of get_stroke(-1)),
379     get_stroke(-1));
380   set_bosize(0,80);
381   expand_pbox;
382 enddef;

```



TWO

```

383
384 vardef kanji.grtwo.gate =
385   push_pbox_toexpand("kanji.grtwo.gate");
386   push_stroke((150,-50)-(150,30)-(150,780)-(430,780)-(430,450),
387     (1.5,1.5)-(1.5,1.5)-(1.6,1.6)-(1.6,1.6)-(1.5,1.5));
388   set_botip(0,2,1);
389   set_botip(0,3,1);
390   set_boserif(0,2,4);
391   set_boserif(0,3,4);
392   push_stroke((150,640)-(430,640),
393     (1.5,1.5)-(1.5,1.5));
394   push_stroke((150,490)-(430,490),
395     (1.5,1.5)-(1.5,1.5));
396   push_stroke((570,450)-(570,780)-(850,780),
397     (1.5,1.5)-(1.6,1.6)-(1.6,1.6));
398   build_kanji.add_jtail(0);
399   set_botip(0,1,1);
400   set_botip(0,2,1);
401   set_boserif(0,1,4);
402   set_boserif(0,2,4);
403   push_stroke((570,640)-(850,640),

```

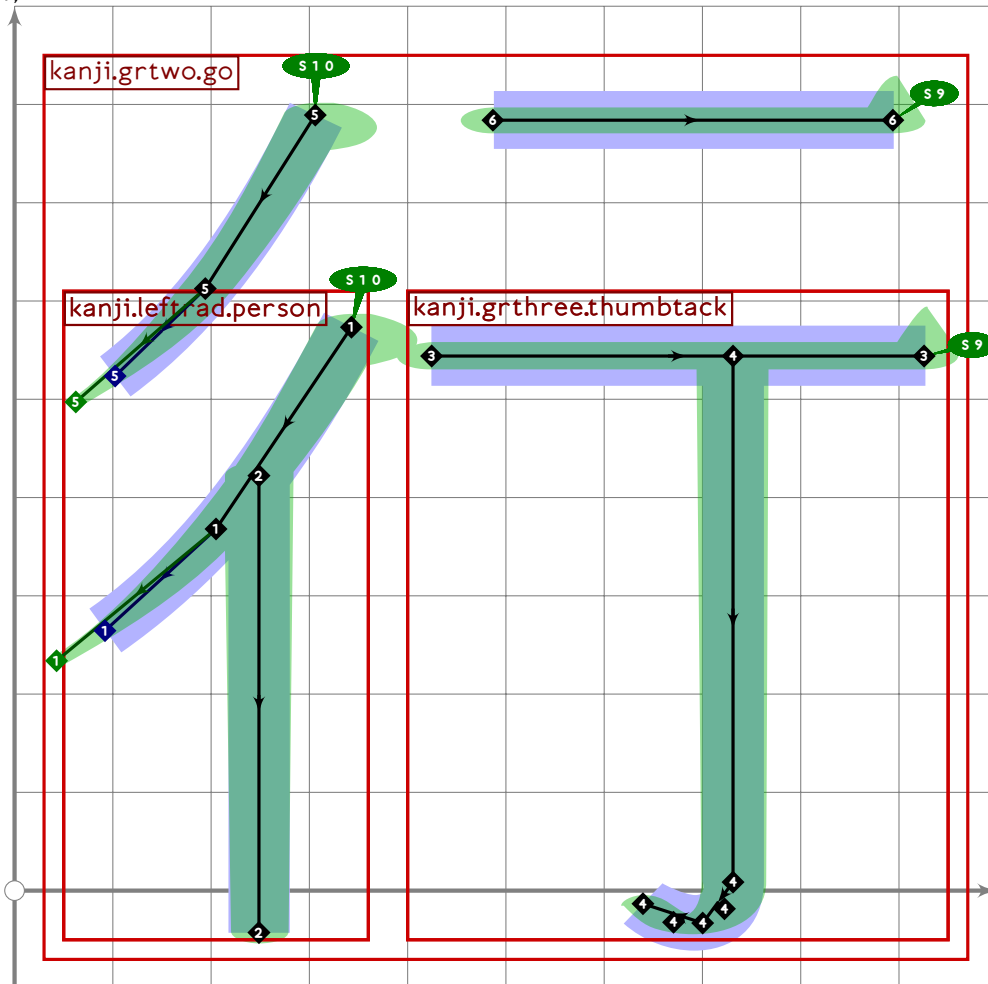
U+884C
tsuku.uni884C

```

404 (1.5,1.5)-(1.5,1.5));
405 push_stroke((570,490)-(850,490),
406 (1.5,1.5)-(1.5,1.5));
407 for i=-5 upto 0: set_bosize(i,90); endfor;
408 expand_pbox;
409 enddef;

```

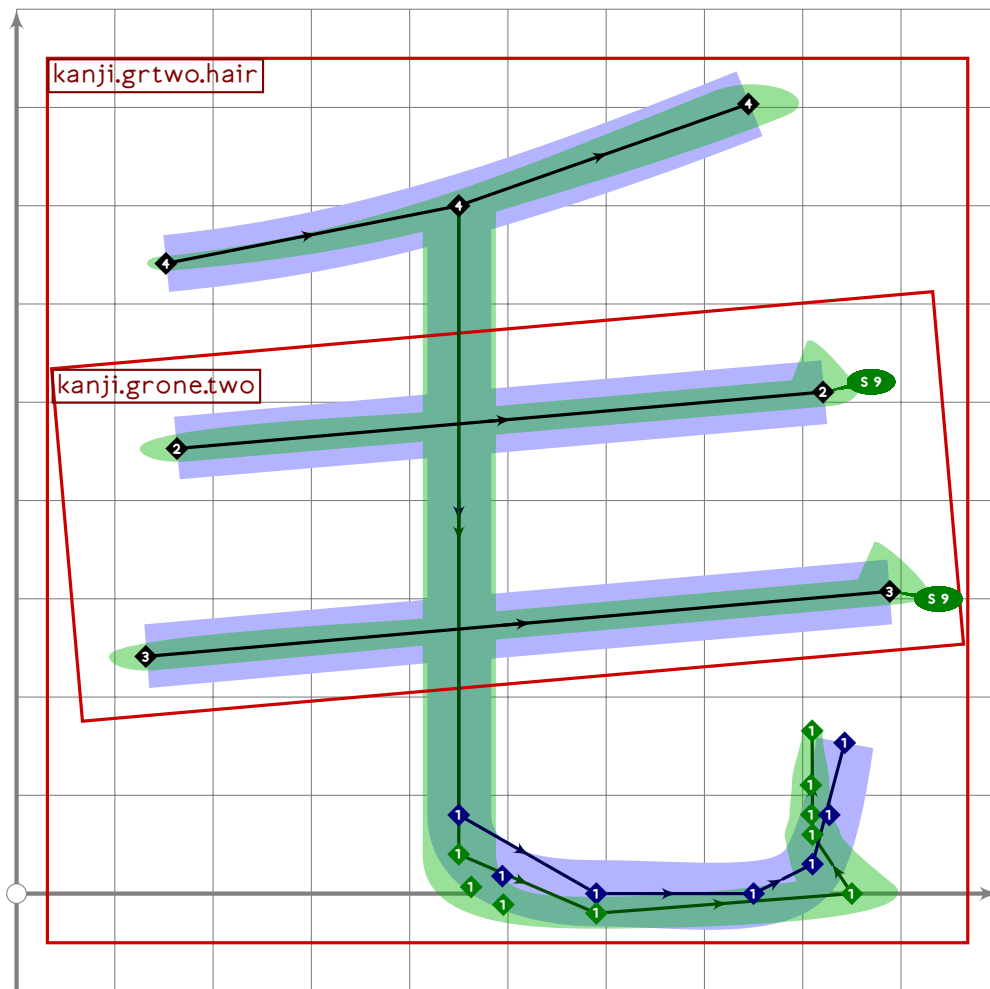
TWO



```

410
411 vardef kanji.grtwo.go =
412   push_pbox_toexpand("kanji.grtwo.go");
413   build_kanji.harmonic(240,0.86,50)
414   (build_kanji.level(build_kanji.lr(380,-40)
415     (kanji.leftrad.person)
416     (kanji.grthree.thumbtack)));
417   replace_stroke(-4)(oldp shifted (50,0));
418   expand_pbox;
419 enddef;

```

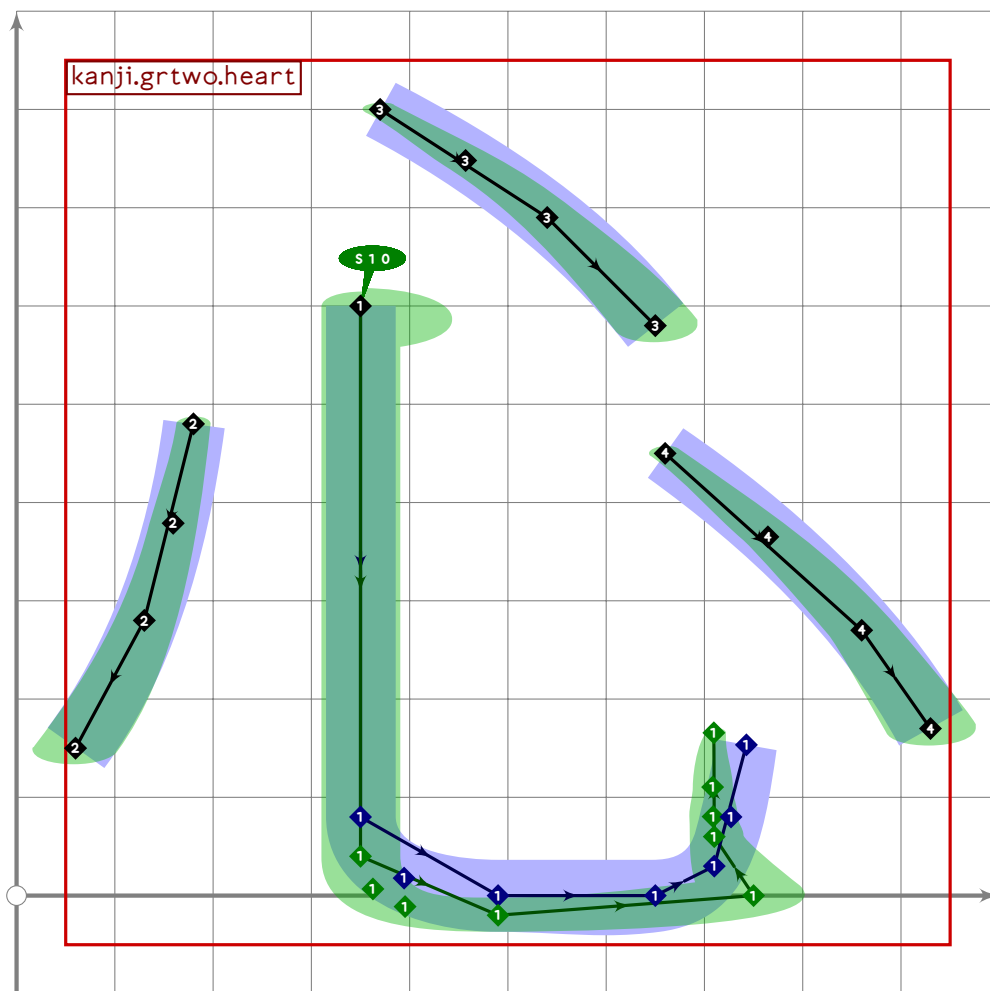


```

420
421 vardef kanji.grtwo.hair =
422   push_pbox_toexpand("kanji.grtwo.hair");
423   build_kanji.level(build_kanji.add_beret(
424     push_stroke((450,700),(1,6,1,6));
425     build_kanji.add_ltail(0);
426     build_kanji.sscale(yscaled 0.4 rotated 5)(kanji.grone.two)));
427   expand_pbox;
428 enddef;

```

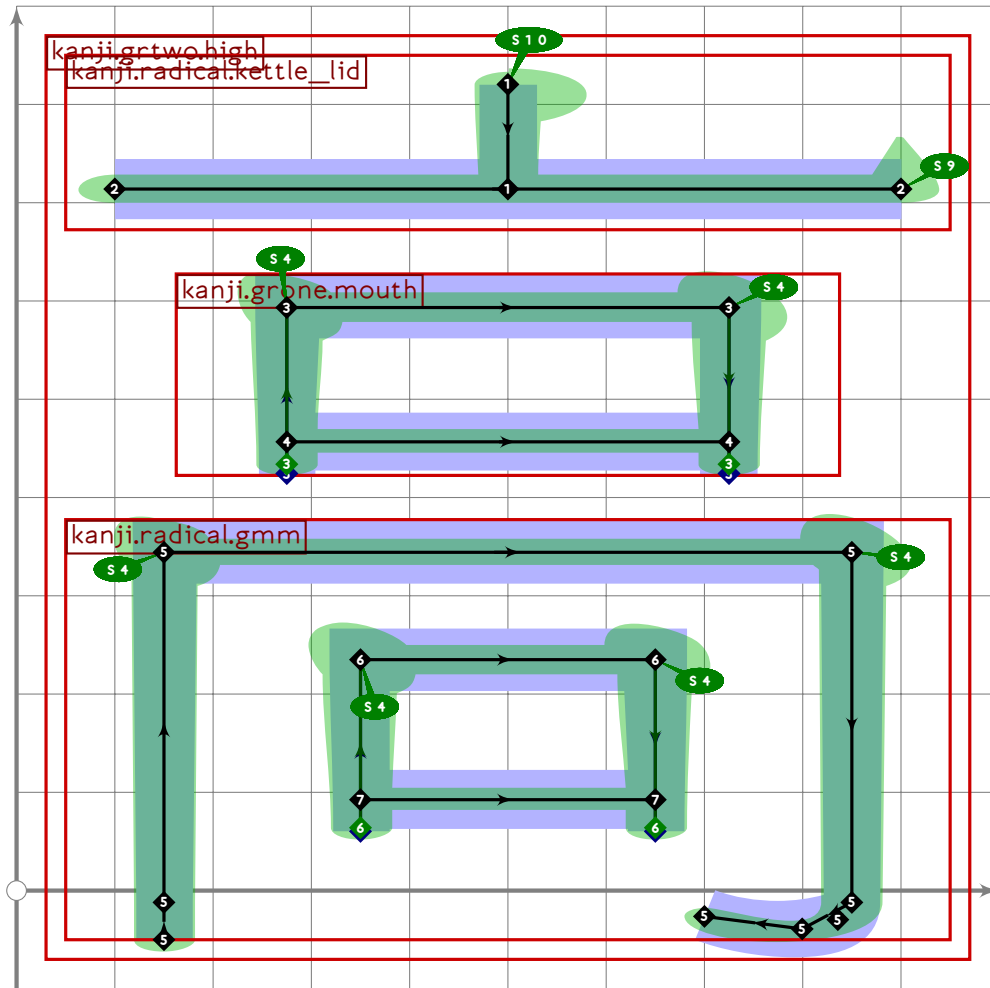
TWO



```

429
430 vardef kanji.grtwo.heart =
431   push_pbox_toexpand("kanji.grtwo.heart");
432   tsu_xform(identity shifted (-100,0))
433   (push_stroke((450,600),(1.6,1.6));
434     build_kanji.add_tail(0));
435   set_boserif(0,0,10);
436   push_stroke((180,480)..tension 1.2..(130,280)..(60,150),
437     (1,1)-(1.4,1.4)-(1.7,1.7));
438   push_stroke((370,800)..tension 1.2..(540,690)..(650,580),
439     (1,1)-(1.4,1.4)-(1.7,1.7));
440   push_stroke((660,450)..tension 1.2..(860,270)..(930,170),
441     (1,1)-(1.5,1.5)-(1.8,1.8));
442   expand_pbox;
443 enddef;

```



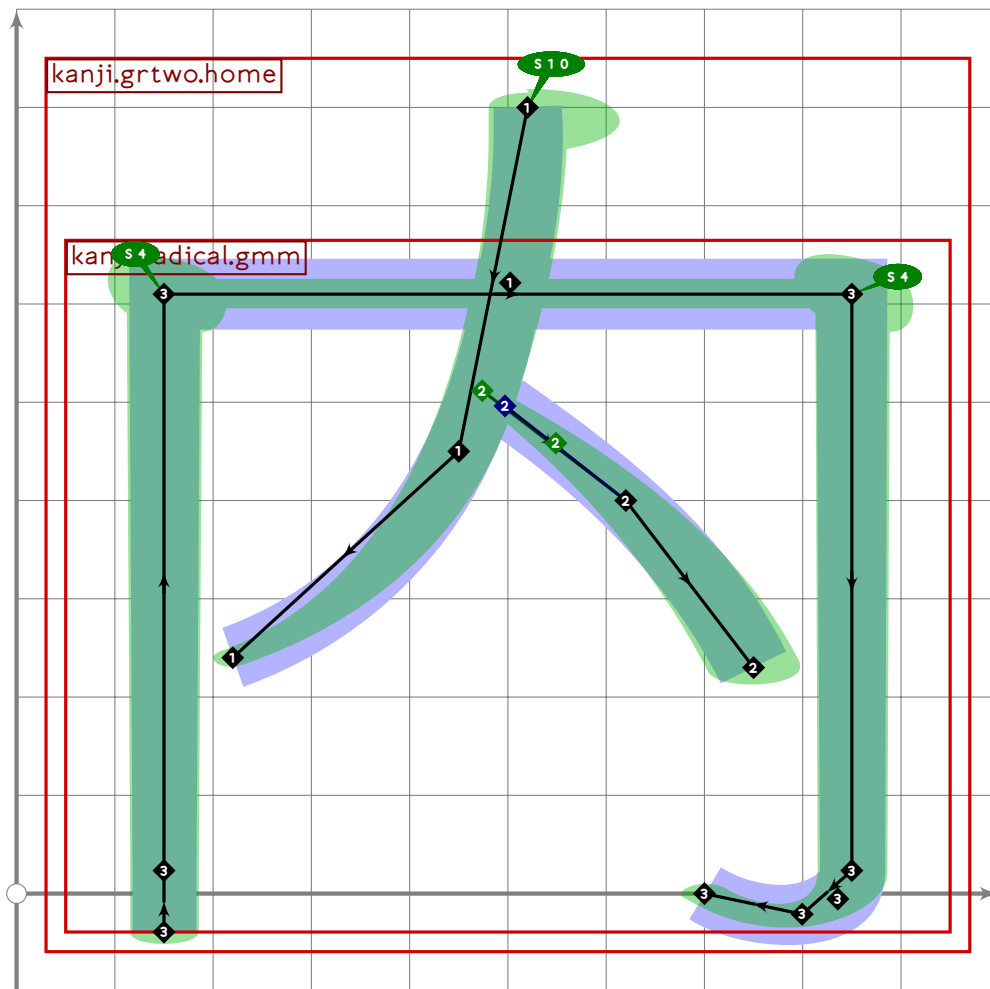
TWO

```

444
445 vardef kanji.grtwo.high =
446   push_pbox_toexpand("kanji.grtwo.high");
447   build_kanji.level(build_kanji.tcb(650,-45)(400,-45)
448     (kanji.radical.kettle_lid)
449     (build_kanji.sscale(xscaled 0.75)(kanji.grone.mouth))
450     (kanji.radical.gmm;
451       build_kanji.box((350,550),(650,250)))));
452   expand_pbox;
453 enddef;

```

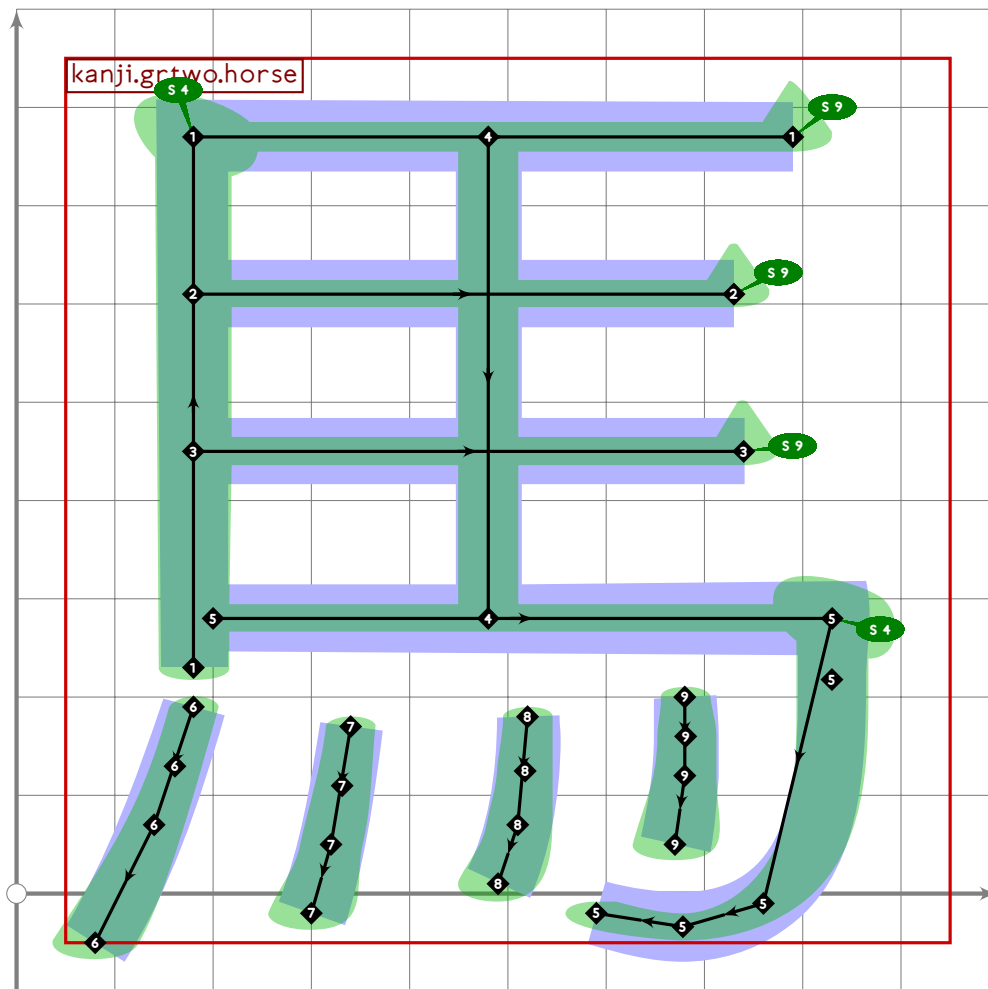
TWO



```

454
455 vardef kanji.grtwo.home =
456   push_pbox_toexpand("kanji.grtwo.home");
457   push_stroke((520,800)..tension 1.2..(450,450)..(220,240),
458     (1.6,1.6)–(1.5,1.5)–(1.1,1.1));
459   set_boserif(0,0,10);
460   push_stroke(
461     (point 0.8 of get_stroke(0))..tension 1.2..(620,400)..(750,230),
462     (0.9,0.9)–(1.5,1.5)–(1.8,1.8));
463   tsu_xform(identity yscaled (610/780))(kanji.radical.gmm);
464   expand_pbox;
465 enddef;

```

TWO

```

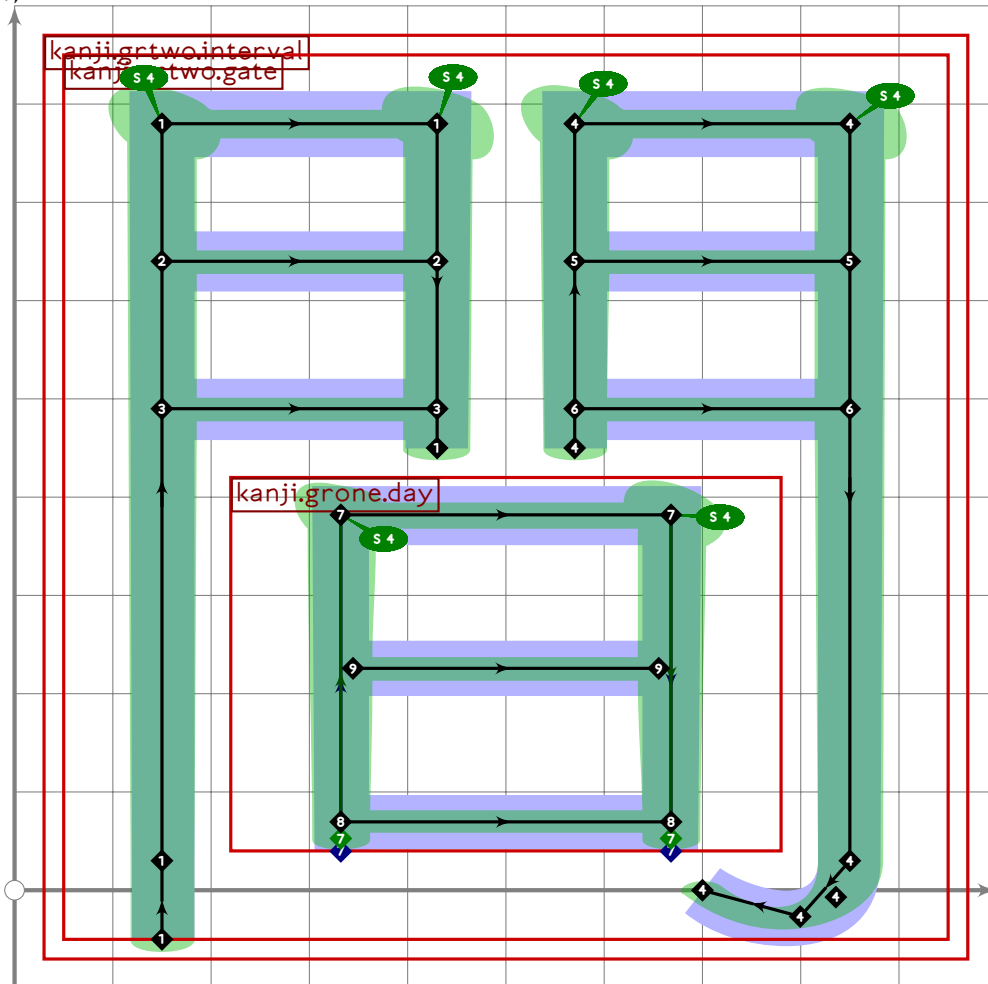
466
467 vardef kanji.grtwo.horse =
468   push_pbox_toexpand("kanji.grtwo.horse");
469   push_stroke((180,230)–(180,770)–(790,770),
470     (1.5,1.5)–(1.6,1.6)–(1.6,1.6));
471   set_boserif(0,1,4);
472   set_boserif(0,2,9);
473   set_botip(0,1,1);
474   push_stroke((180,610)–(730,610),
475     (1.5,1.5)–(1.5,1.5));
476   set_boserif(0,1,9);
477   push_stroke((180,450)–(740,450),
478     (1.5,1.5)–(1.5,1.5));
479   set_boserif(0,1,9);
480   push_stroke((480,770)–(480,280),(14,1,4)–(1.3,1.3));
481   push_stroke((200,280)–(830,280){dir 268}..(760,-10)..{curl 0.2}(590,-20),
482     (1.5,1.5)–(1.5,1.5)–(1.5,1.5)–(1.5,1.5)–(14,1,4)–(1.2,1.2));
483   replace_stroke(0)(insert_nodes(oldp)((length oldp)–0.5));
484   set_boserif(0,1,4);
485   set_botip(0,1,1);
486   push_stroke((180,190)..tension 1.2..(140,70)..(80,-50),

```

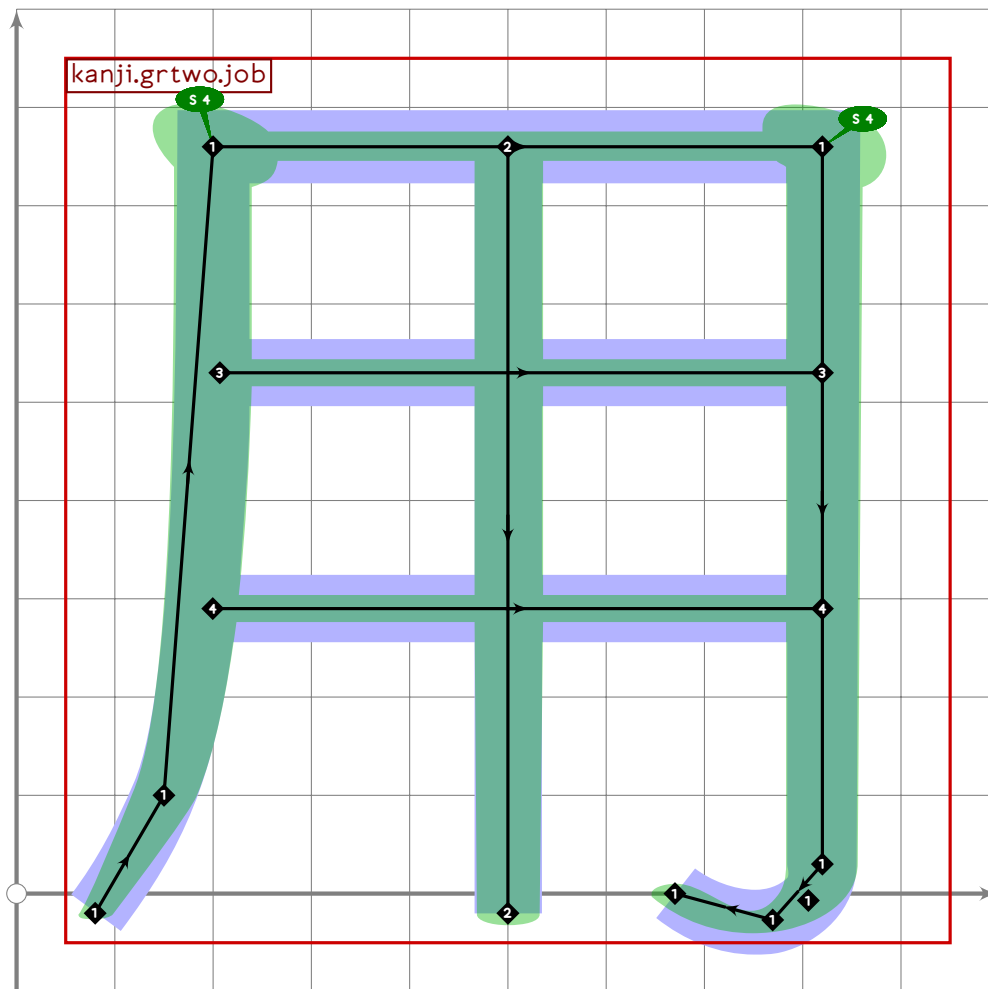
U+9593
tsuku.uni9593

TWO

```
487 (1.2,1.2)–(1.4,1.4)–(1.7,1.7));  
488 push_stroke((340,170)..tension 1.2..(320,50)..(300,-20),  
489 (1.2,1.2)–(1.4,1.4)–(1.7,1.7));  
490 push_stroke((520,180)..tension 1.2..(510,70)..(490,10),  
491 (1.2,1.2)–(1.4,1.4)–(1.7,1.7));  
492 push_stroke((680,200)..tension 1.2..(680,120)..(670,50),  
493 (1.2,1.2)–(1.4,1.4)–(1.7,1.7));  
494 expand_pbox;  
495 enddef;
```



```
496  
497 vardef kanji.grtwo.interval =  
498   push_pbox_toexpand("kanji.grtwo.interval");  
499   build_kanji.gate_enclose(kanji.grone.day);  
500   expand_pbox;  
501 enddef;
```



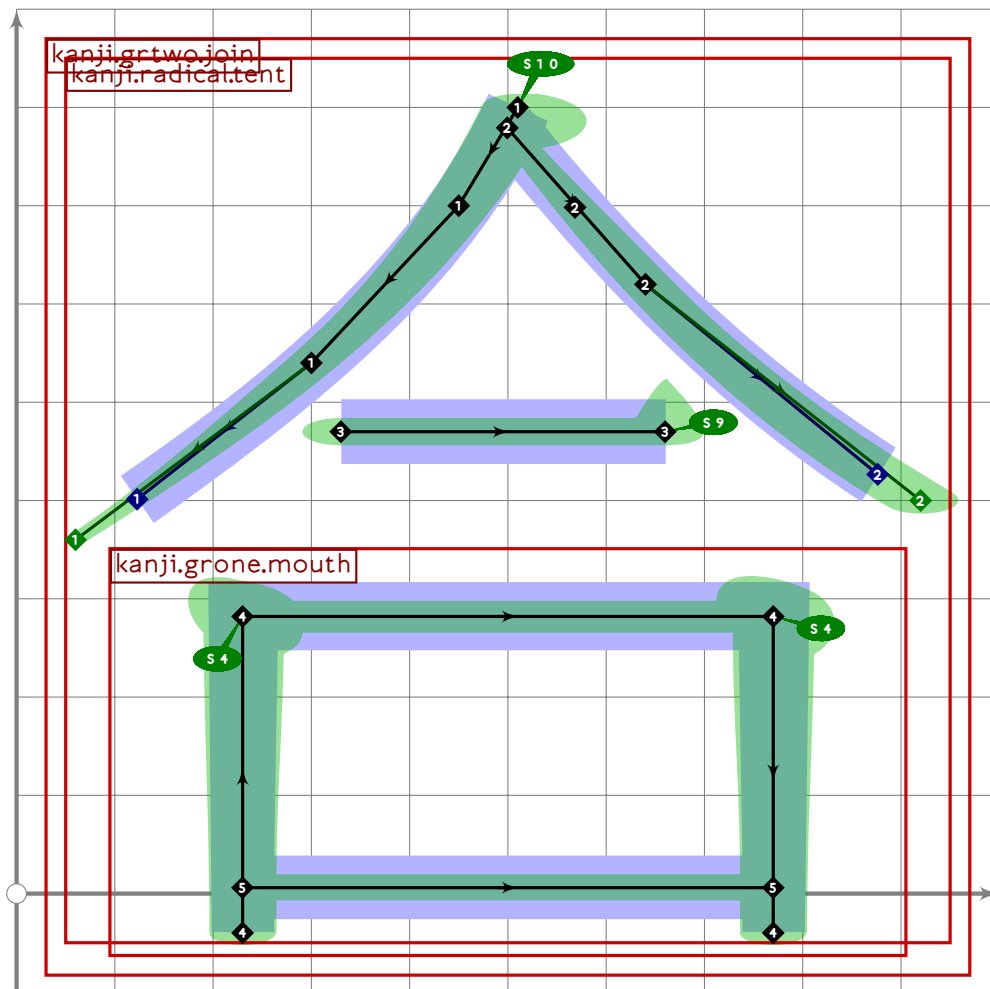
TWO

```

502
503 vardef kanji.grtwo.job =
504   push_pbox_toexpand("kanji.grtwo.job");
505   push_stroke((80,-20)..(150,100)..{up}(200,760){right}-(820,760),
506     (1,1)-(14,14)-(16,16)-(16,16));
507   build_kanji.add_jtail(0);
508   set_botip(0,2,0.8);
509   set_botip(0,3,1);
510   set_boserif(0,2,4);
511   set_boserif(0,3,4);
512   push_stroke((500,760)-(500,-20),(1.5,1.5)-(14,14));
513   push_stroke(
514     (get_stroke(-1) intersectionpoint ((0,530)-(1000,530)))-(820,530),
515     (1.5,1.5)-(1.5,1.5));
516   push_stroke(
517     (get_stroke(-2) intersectionpoint ((0,290)-(1000,290)))-(820,290),
518     (1.5,1.5)-(1.5,1.5));
519   expand_pbox;
520 enddef;

```

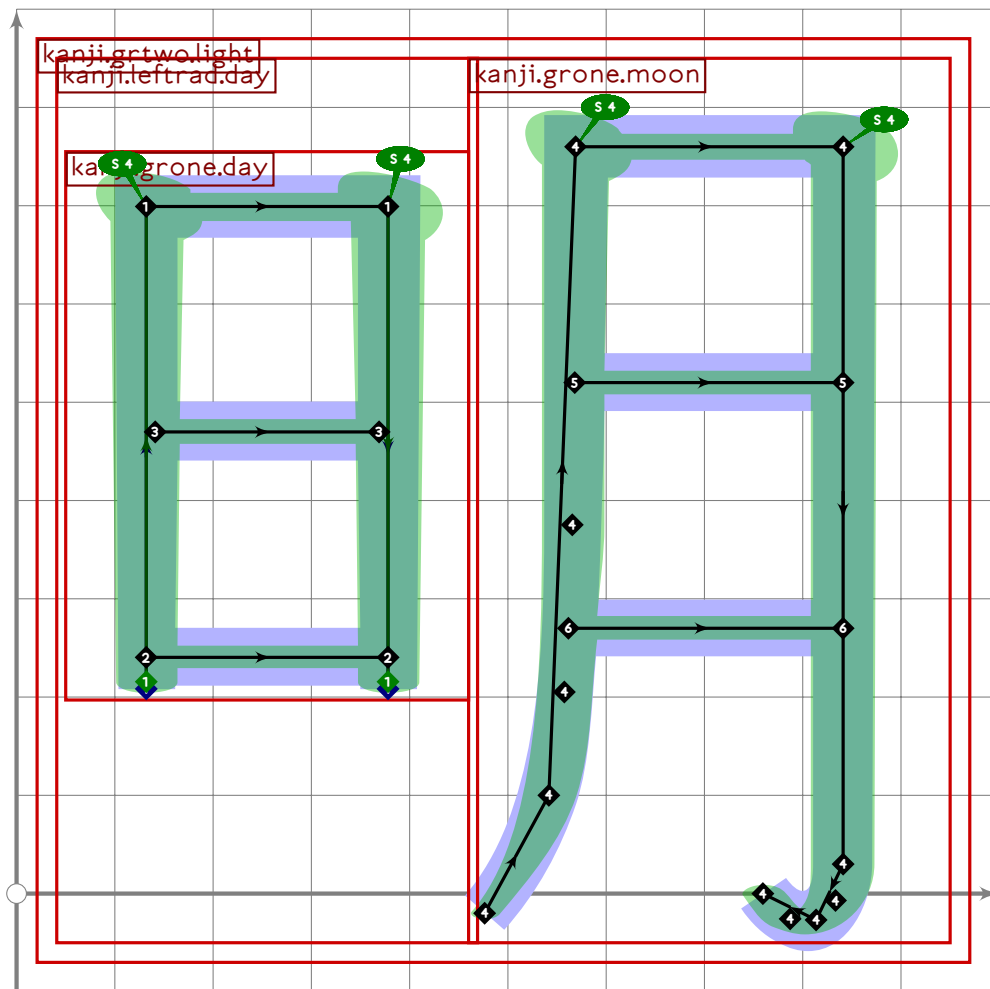
TWO



```

521
522 vardef kanji.grtwo.join =
523   push_pbox_toexpand("kanji.grtwo.join");
524   build_kanji.level(
525     kanji.radical.tent;
526     tsu_xform(identity shifted (-500,0) xyscaled (0.9,0.46) shifted (500,-40))
527     (kanji.grone.mouth);
528   );
529   expand_pbox;
530 enddef;

```



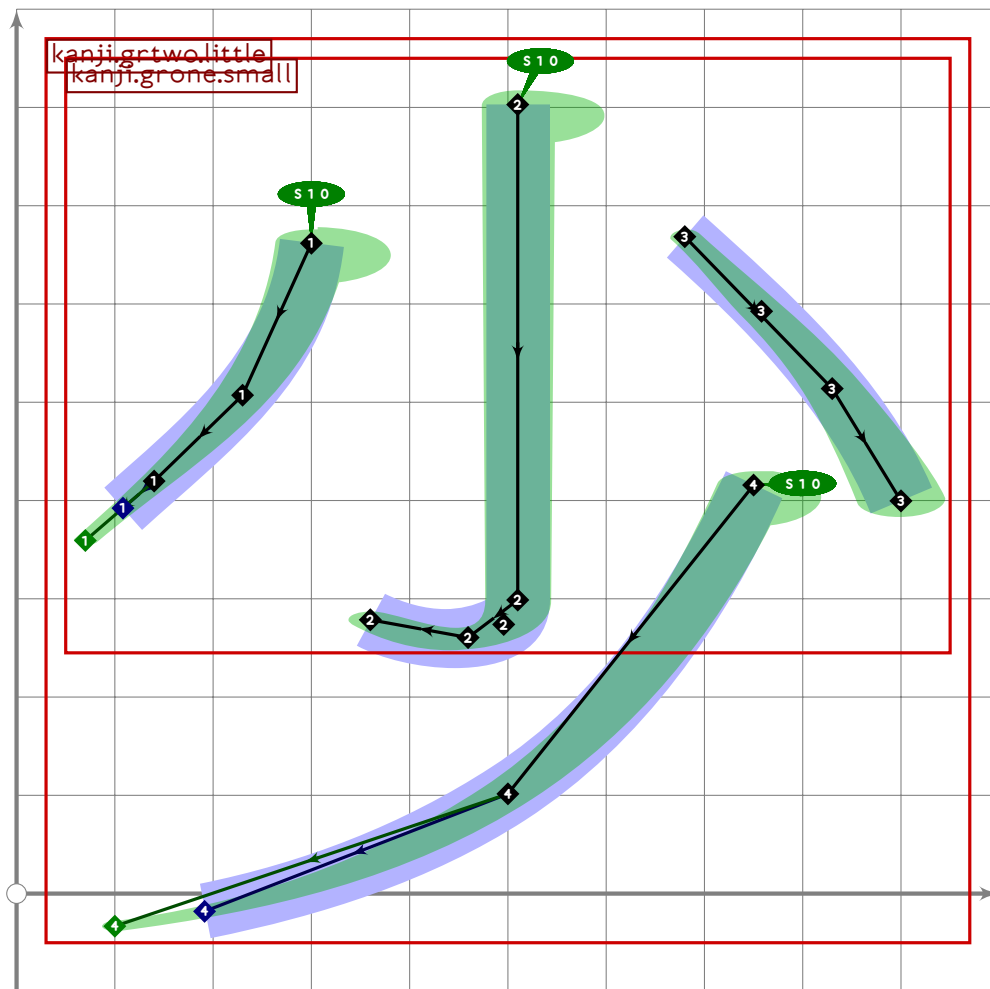
TWO

```

531
532 vardef kanji.grtwo.light =
533   push_pbox_toexpand("kanji.grtwo.light");
534   build_kanji.level(build_kanji.lr(460,0)
535     (kanji.leftrad.day)
536     (kanji.grone.moon));
537   expand_pbox;
538 enddef;

```

TWO



```

539
540 vardef kanji.grtwo.little =
541   push_pbox_toexpand("kanji.grtwo.little");
542   build_kanji.level(build_kanji.tb(350,210)
543     (kanji.grone.small)
544     (
545       push_stroke((750,780){curl 0.1}..(500,220)..(100,-20),
546         (1.6,1.6)-(1.4,1.4)-(0.9,0.9));
547       set_boserif(0,0,10);
548     ));
549   expand_pbox;
550 enddef;

```

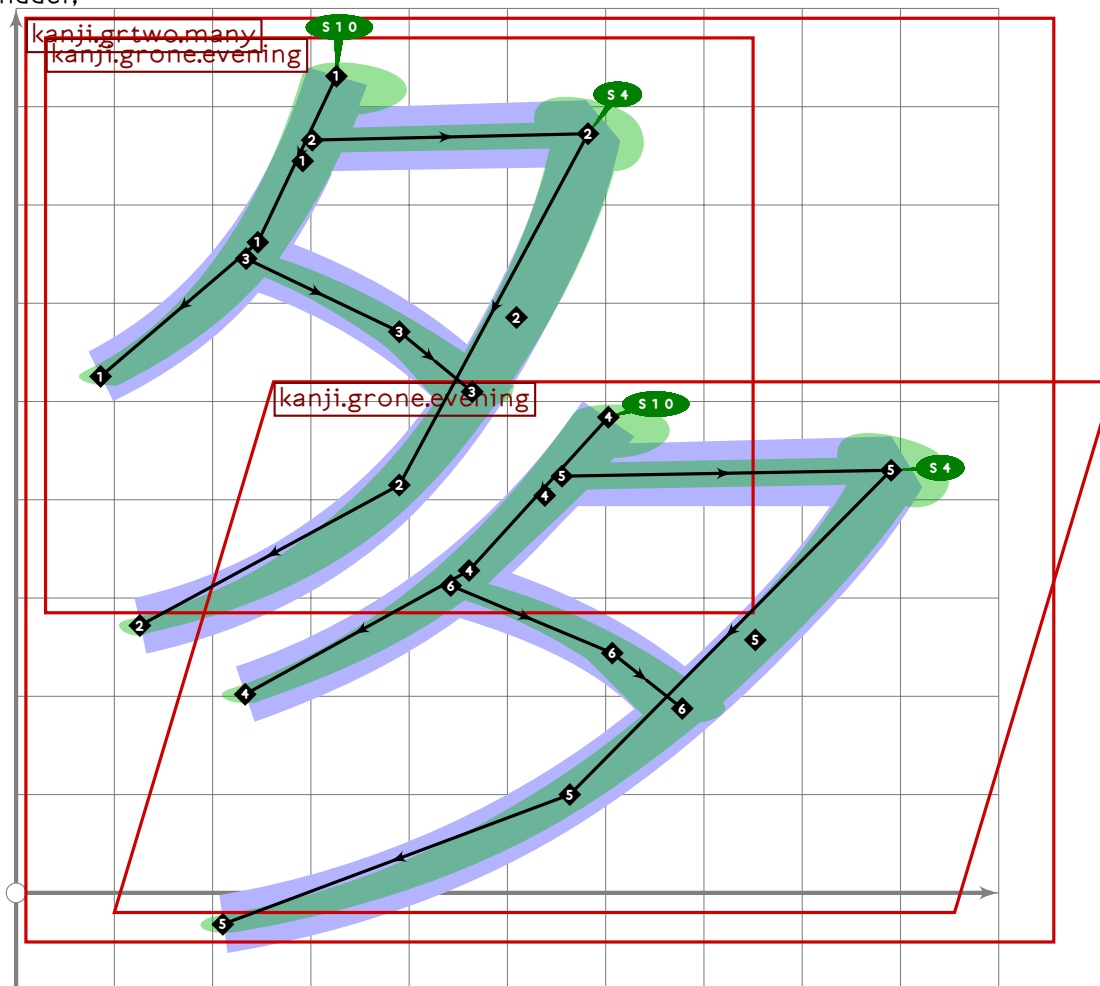


TWO

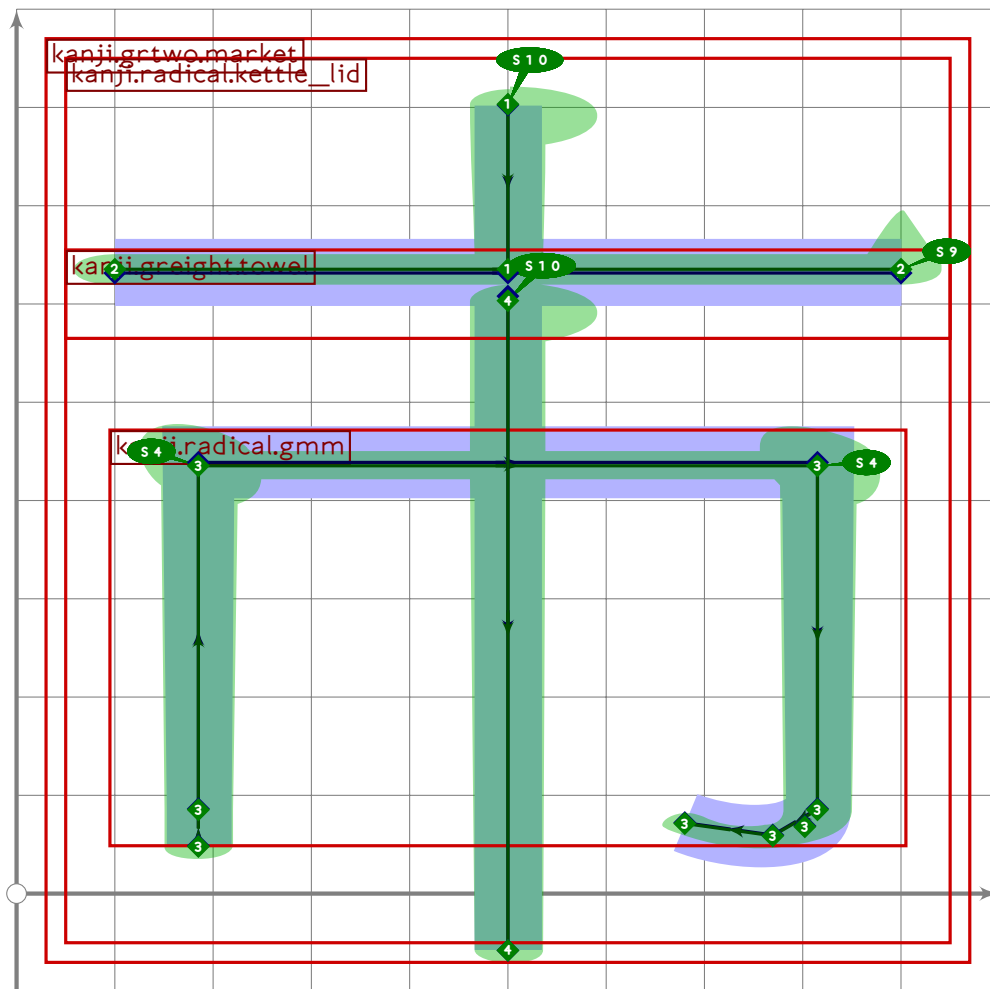
U+591A
tsuku.uni591A

```
572 expand_pbox;
573 enddef;
```

TWO



```
574
575 vardef kanji.grtwo.many =
576   push_pbox_toexpand("kanji.grtwo.many");
577   perl_structure:=perl_structure&"eids.u2FF1.11.";
578   tsu_xform(identity shifted (-50;850) xyscaled (0.8,0.65) shifted (30,870))
579     (kanji.grone.evening);
580   tsu_xform(identity shifted (-50,50)
581     xyscaled (0.95,0.6) slanted 0.3 shifted (100,-20))
582     (kanji.grone.evening);
583   expand_pbox;
584 enddef;
```

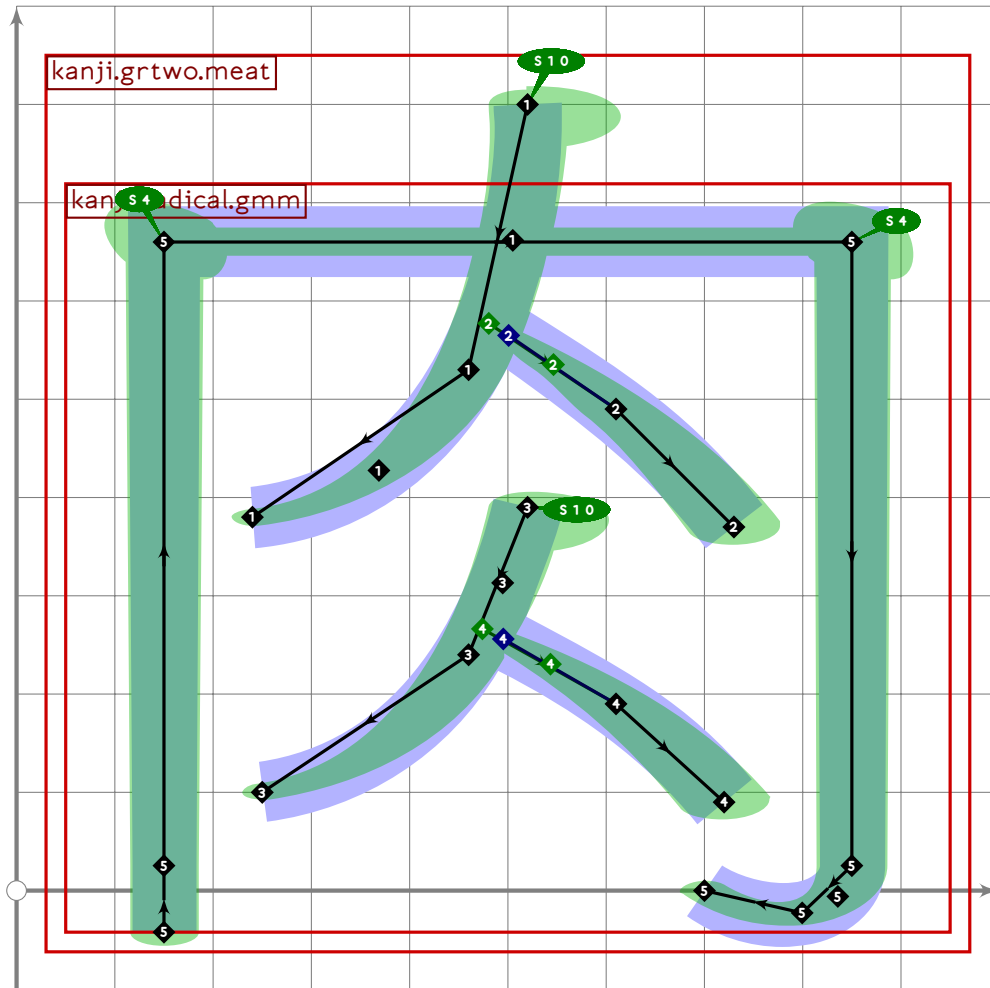
TWO

```

585
586 vardef kanji.grtwo.market =
587   push_pbox_toexpand("kanji.grtwo.market");
588   build_kanji.level(build_kanji.tb(610,90-10*mincho)
589     (kanji.radical.kettle_lid)
590     (kanji.greight.towel));
591   expand_pbox;
592 enddef;

```

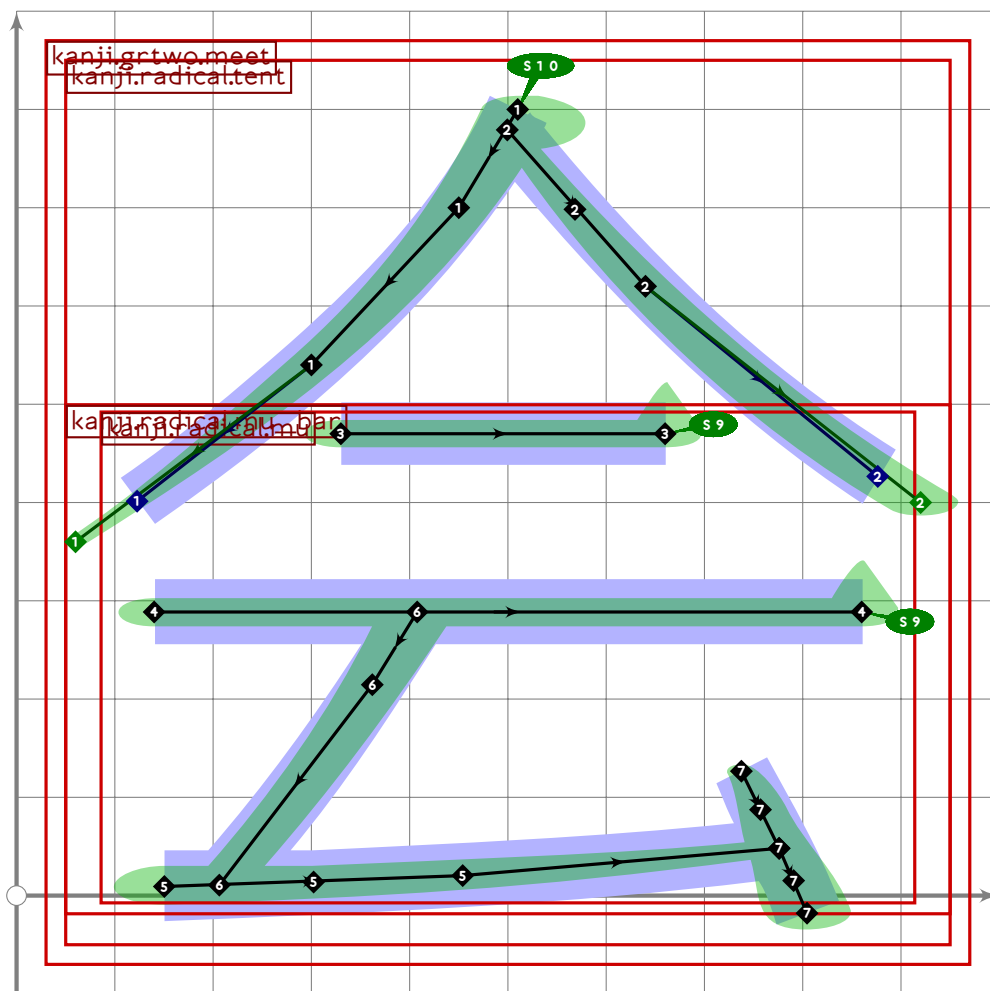
TWO



```

593
594 vardef kanji.grtwo.meat =
595   push_pbox_toexpand("kanji.grtwo.meat");
596   push_stroke((520,800)..tension 1.2..(460,530)..(240,380),
597     (1.6,1.6)–(1.5,1.5)–(1.1,1.1));
598   set_boserif(0,0,10);
599   push_stroke((point 0.8 of get_stroke(0))..tension 1.2..(610,490)..(730,370),
600     (0.9,0.9)–(1.5,1.5)–(1.8,1.8));
601   push_stroke((520,390)..tension 1.2..(460,240)..(250,100),
602     (1.6,1.6)–(1.5,1.5)–(1.1,1.1));
603   set_boserif(0,0,10);
604   push_stroke((point 0.8 of get_stroke(0))..tension 1.2..(610,190)..(720,90),
605     (0.9,0.9)–(1.5,1.5)–(1.8,1.8));
606   tsu_xform(identity yscaled (660/780))(kanji.radical.gmm);
607   expand_pbox;
608 enddef;

```



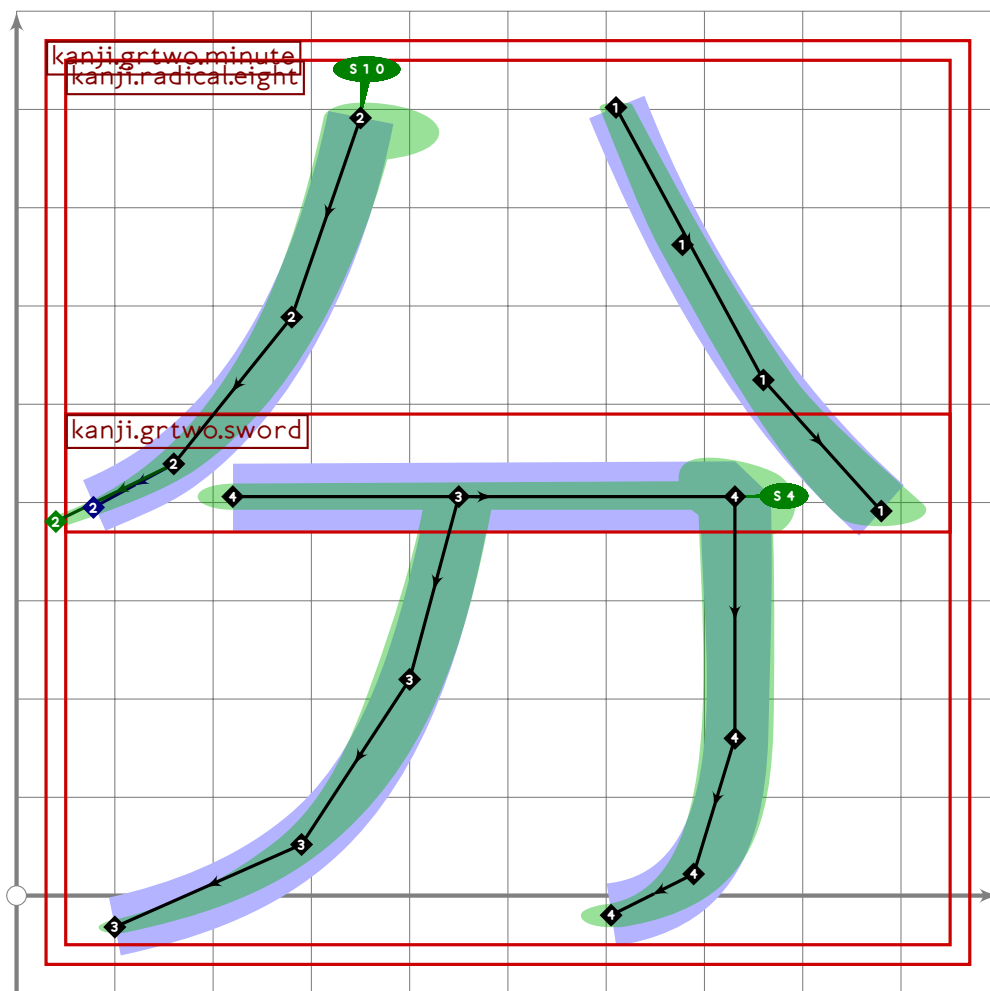
```

609
610 vardef kanji.grtwo.meet =
611   push_pbox_toexpand("kanji.grtwo.meet");
612   build_kanji.level(
613     kanji.radical.tent;
614     tsu_xform(identity yscaled 0.37)(kanji.radical.mu_bar);
615   );
616   expand_pbox;
617 enddef;

```

U+5206
tsuku.uni5206

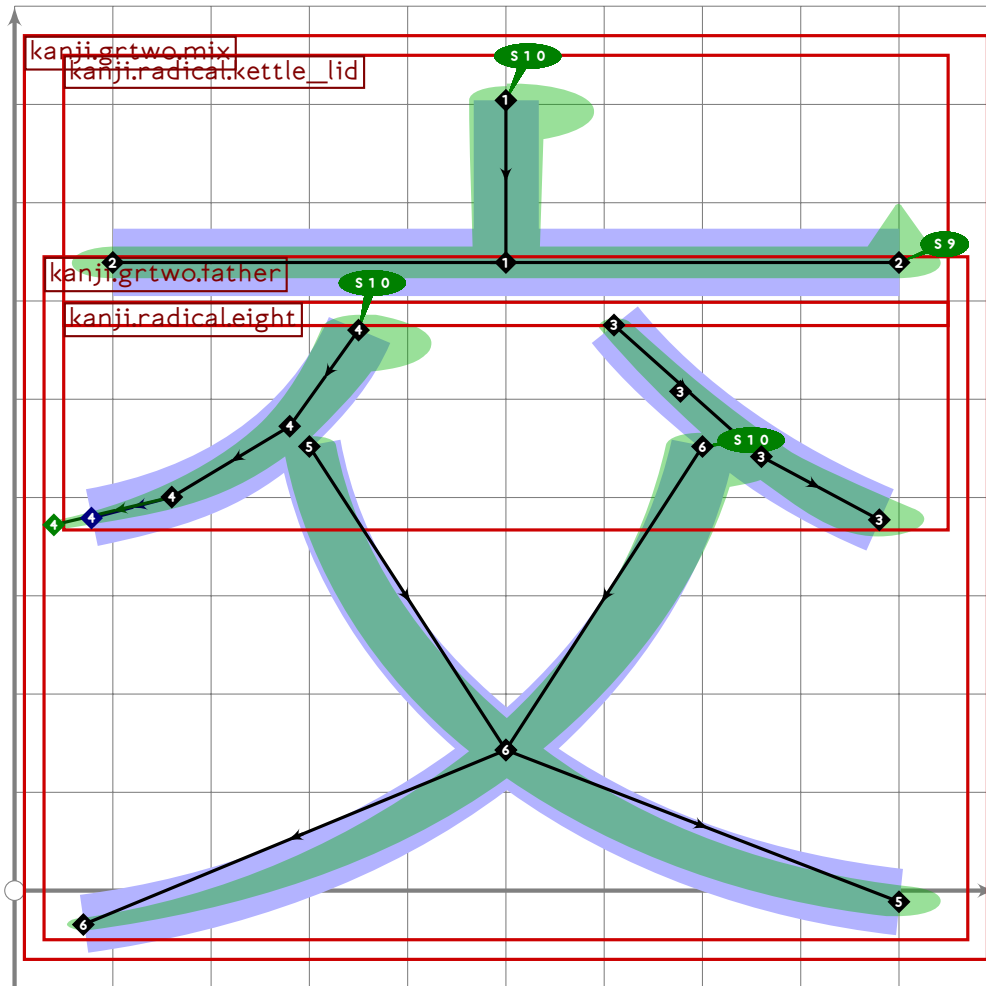
TWO



```

618
619 vardef kanji.grtwo.minute =
620   push_pbox__toexpand("kanji.grtwo.minute");
621   build_kanji.level(build_kanji.tb(430,120)
622     (kanji.radical.eight)
623     (kanji.grtwo.sword;
624       replace_stroke(0)(oldp shifted (-500,0) xscaled 0.7 shifted (500,0))));
625   expand_pbox;
626 enddef;

```



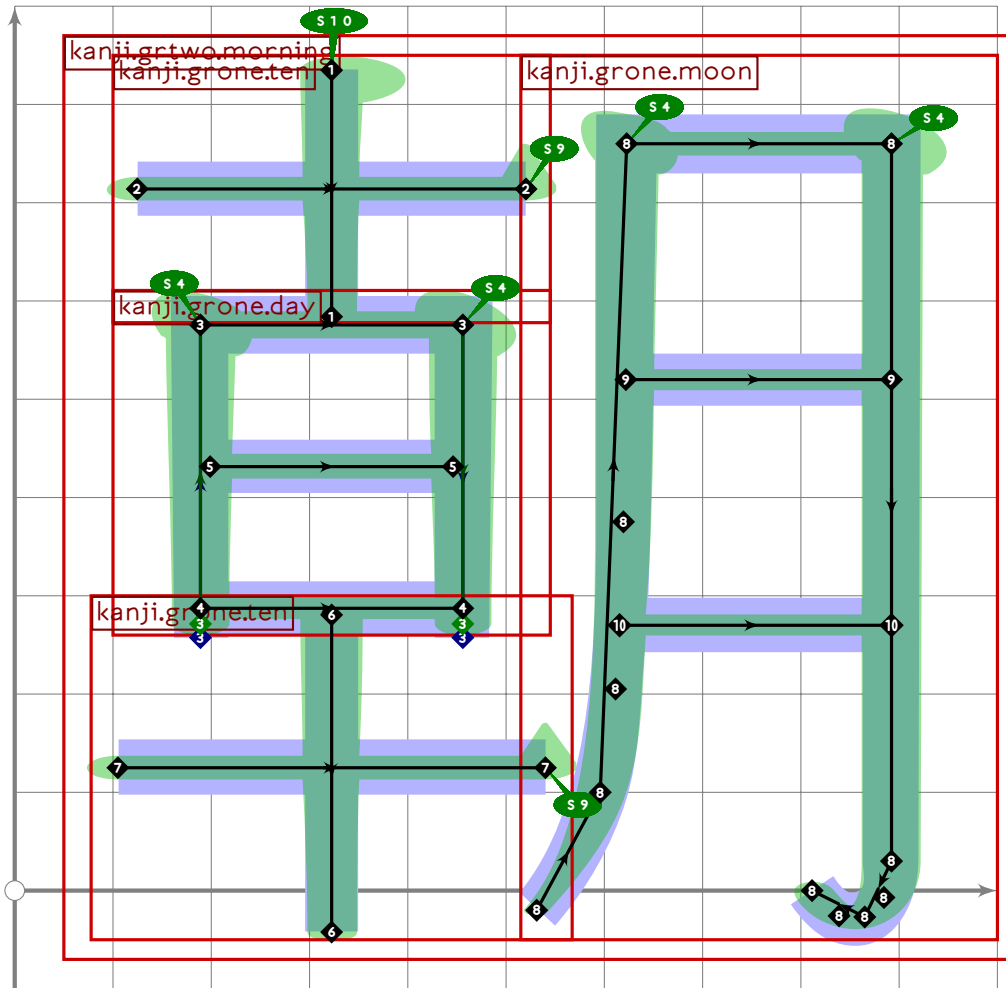
TWO

```

627
628 vardef kanji.grtwo.mix =
629   push_pbox_toexpand("kanji.grtwo.mix");
630   build_kanji.level(build_kanji.tb(610,70)
631     (kanji.radical.kettle_lid)
632     (kanji.grtwo.father));
633   expand_pbox;
634 enddef;

```

TWO



```

635
636 vardef kanji.grtwo.morning =
637   push_pbox_toexpand("kanji.grtwo.morning");
638   tsu_xform(identity shifted (50,0))
639   (build_kanji.level(build_kanji.lr(480,30)
640     (build_kanji.tb(280,40)
641       (build_kanji.tb(460,50)
642         (kanji.grone.ten)
643         (kanji.grone.day))
644       (build_kanji.sscale(xscaled 1.1)
645         (kanji.grone.ten;
646           set_boserif(-1,0,whatever))))
647       (kanji.grone.moon)));
648   expand_pbox;
649 enddef;

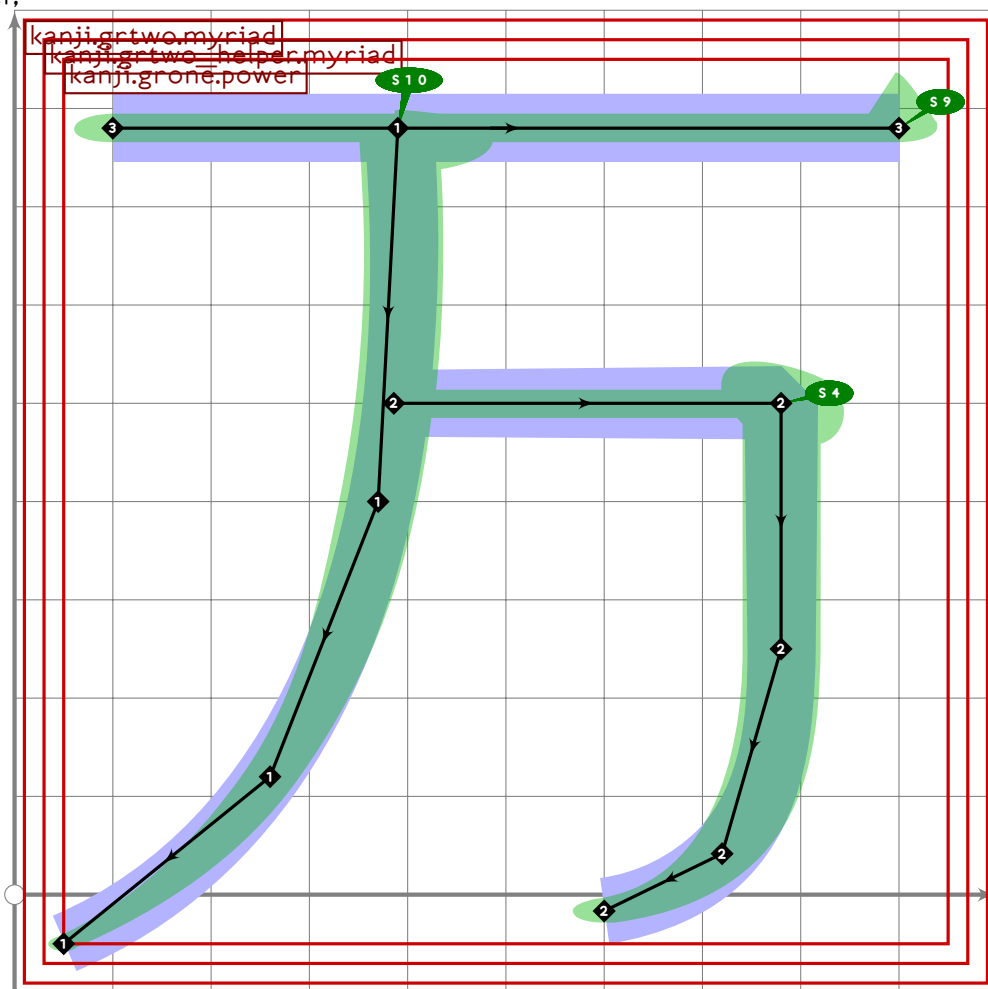
```



TWO

U+4E07
tsuku.uni4E07

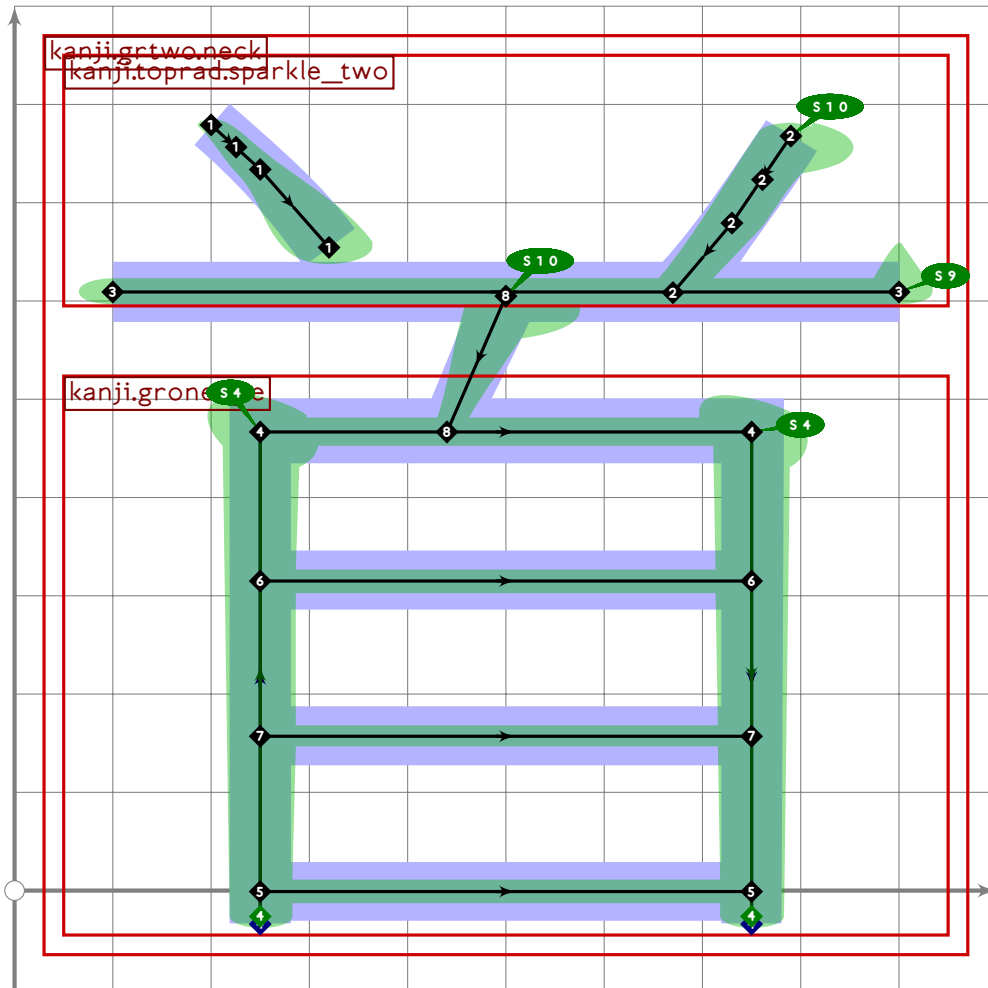
671 endif;



672

```
673 vardef kanji.grtwo.myriad =  
674   push_pbox_toexpand("kanji.grtwo.myriad");  
675   kanji.grtwo_helper.myriad;  
676   push_stroke((100,780)-(900,780),(1.6,1.6)-(1.6,1.6));  
677   set_boserif(0,1,9);  
678   expand_pbox;  
679 endif;
```

TWO



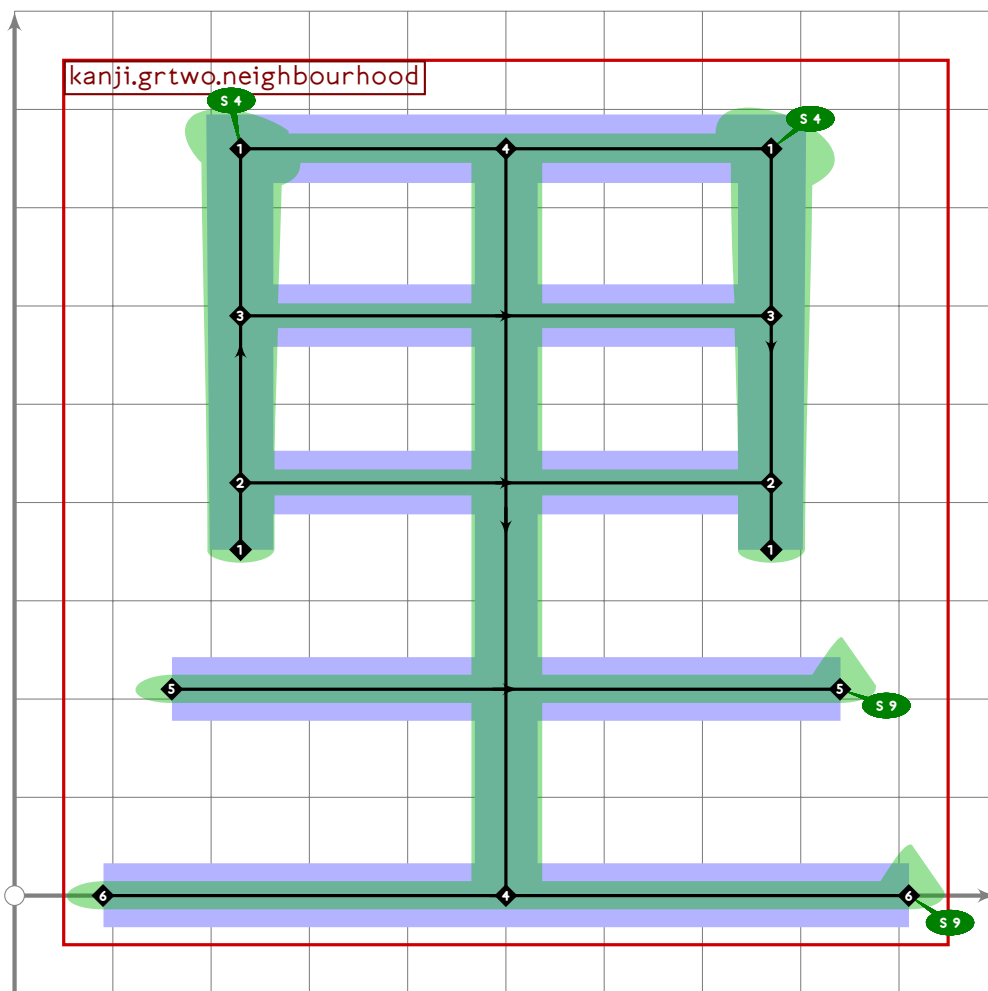
TWO

```

680
681 vardef kanji.grtwo.neck =
682   push_pbox_toexpand("kanji.grtwo.neck");
683   build_kanji.level(build_kanji.tb(600,10)
684     (kanji.toprad.sparkle_two;
685       replace_strokep(0)(oldp shifted (-point 0 of oldp)
686         yscaled 1.25 shifted (point 0 of oldp) shifted (0,-60));
687       push_stroke((100,0)-(900,0),(1.6,1.6)-(1.6,1.6));
688       set_boserif(0,1,9))
689     (build_kanji.attach_tick(660)(kanji.grone.ey)));
690   expand_pbox;
691 enddef;

```

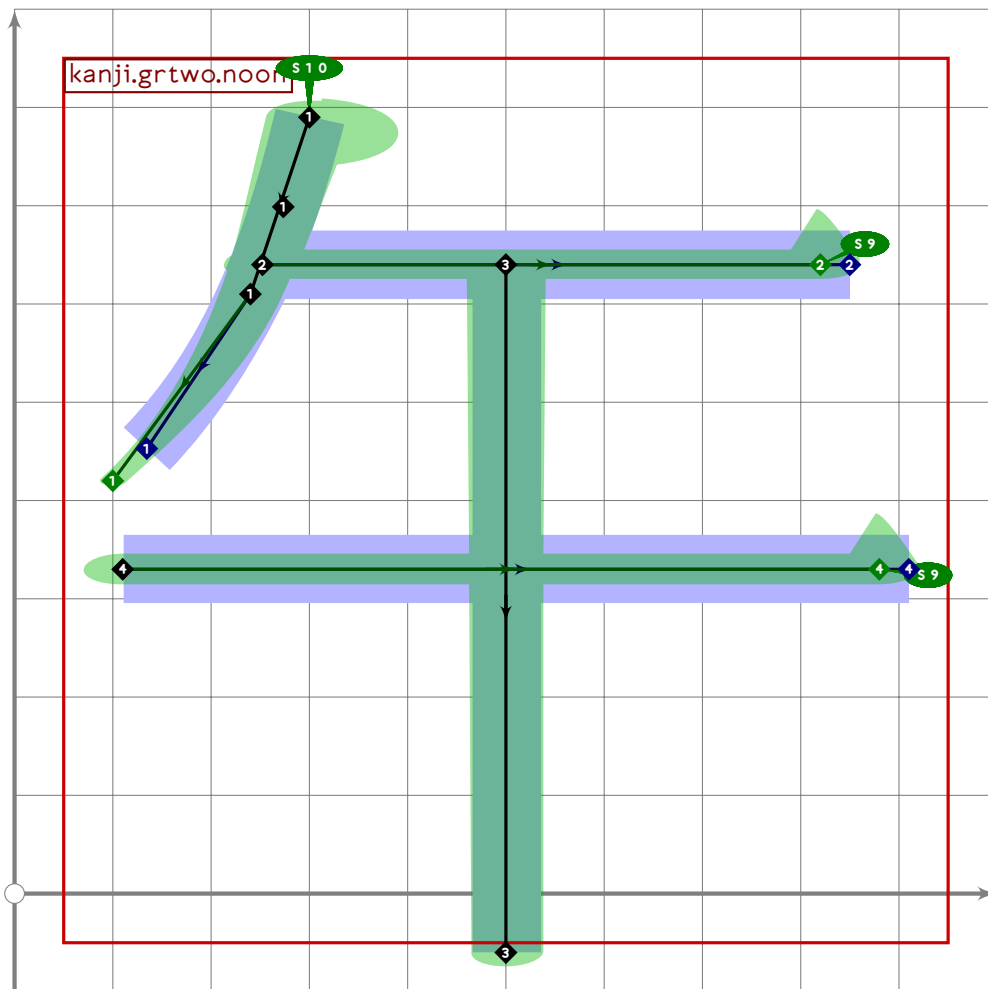
TWO



```

692
693 vardef kanji.grtwo.neighbourhood =
694   push_pbox_toexpand("kanji.grtwo.neighbourhood");
695   build_kanji.box((230,760),(770,420));
696   push_stroke((230,590)–(770,590),(1.5,1.5)–(1.5,1.5));
697   push_stroke((500,760)–(500,0),(1.6,1.6)–(1.5,1.5));
698   push_stroke((160,210)–(840,210),(1.6,1.6)–(1.6,1.6));
699   set_boserif(0,1,9);
700   push_stroke((90,0)–(910,0),(1.6,1.6)–(1.6,1.6));
701   set_boserif(0,1,9);
702   for i=-6 upto 0: set_bosize(i,93); endfor;
703   expand_pbox;
704 enddef;

```



TWO

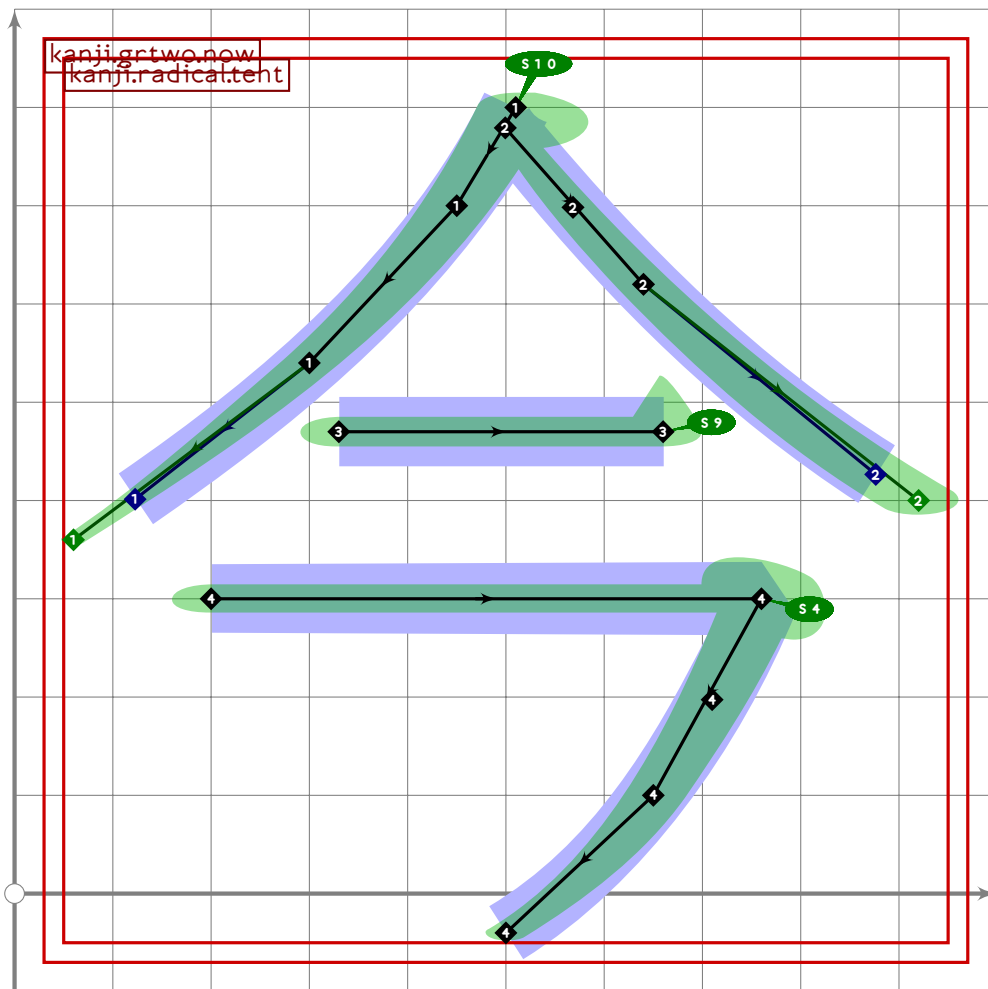
```

705
706 vardef kanji.grtwo.noon =
707   push_pbox_toexpand("kanji.grtwo.noon");
708   push_stroke(((300,790)..tension 1.2..(240,610)..(100,420),
709     (1,7,1,7)-(1,4,1,4)-(0,9,0,9));
710   set_boserif(0,0,10);
711   push_stroke((((0,640)-(1000,640)) intersectionpoint get_stroke(0))-
712     (850-30*mincho,640),
713     (1,6,1,6)-(1,6,1,6));
714   set_boserif(0,1,9);
715   push_stroke((500,640)-(500,-60),(1,6,1,6)-(1,5,1,5));
716   push_stroke((110,330)-(910-30*mincho,330),
717     (1,6,1,6)-(1,6,1,6));
718   set_boserif(0,1,9);
719   expand_pbox;
720 enddef;

```

U+4ECA
tsuku.uni4ECA

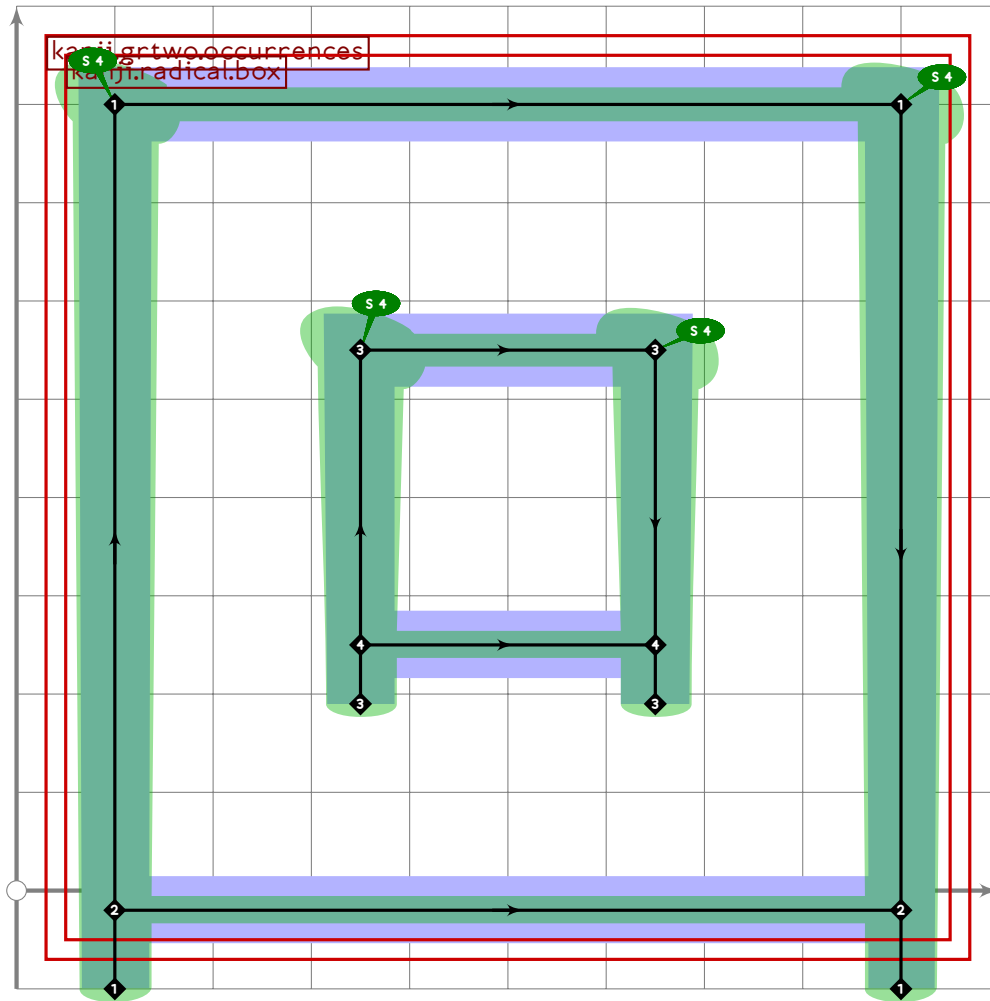
TWO



```

721
722 vardef kanji.grtwo.now =
723   push_pbox_toexpand("kanji.grtwo.now");
724   kanji.radical.tent;
725   push_stroke((200,300)-(760,300)..tension 1.2..(650,100)..(500,-40),
726     (1.6,1.6)-(1.6,1.6)-(1.4,1.4)-(1.1,1.1));
727   set_boserif(0,1,4);
728   set_botip(0,1,0);
729   expand_pbox;
730 enddef;

```



TWO

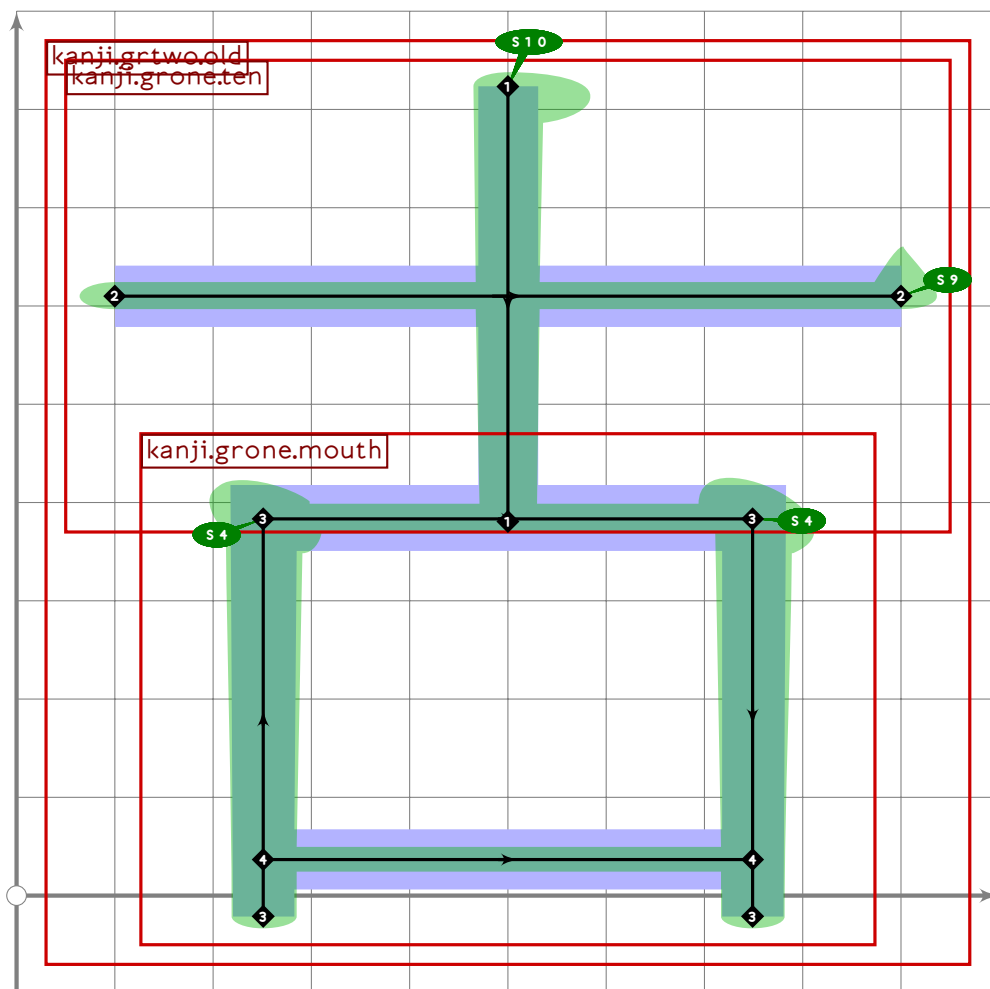
```

731
732 vardef kanji.grtwo.occurrences =
733   push_pbox_toexpand("kanji.grtwo.occurrences");
734   kanji.radical.box;
735   build_kanji.box((350,550),(650,250));
736   expand_pbox;
737 enddef;

```

U+53E4
tsuku.uni53E4

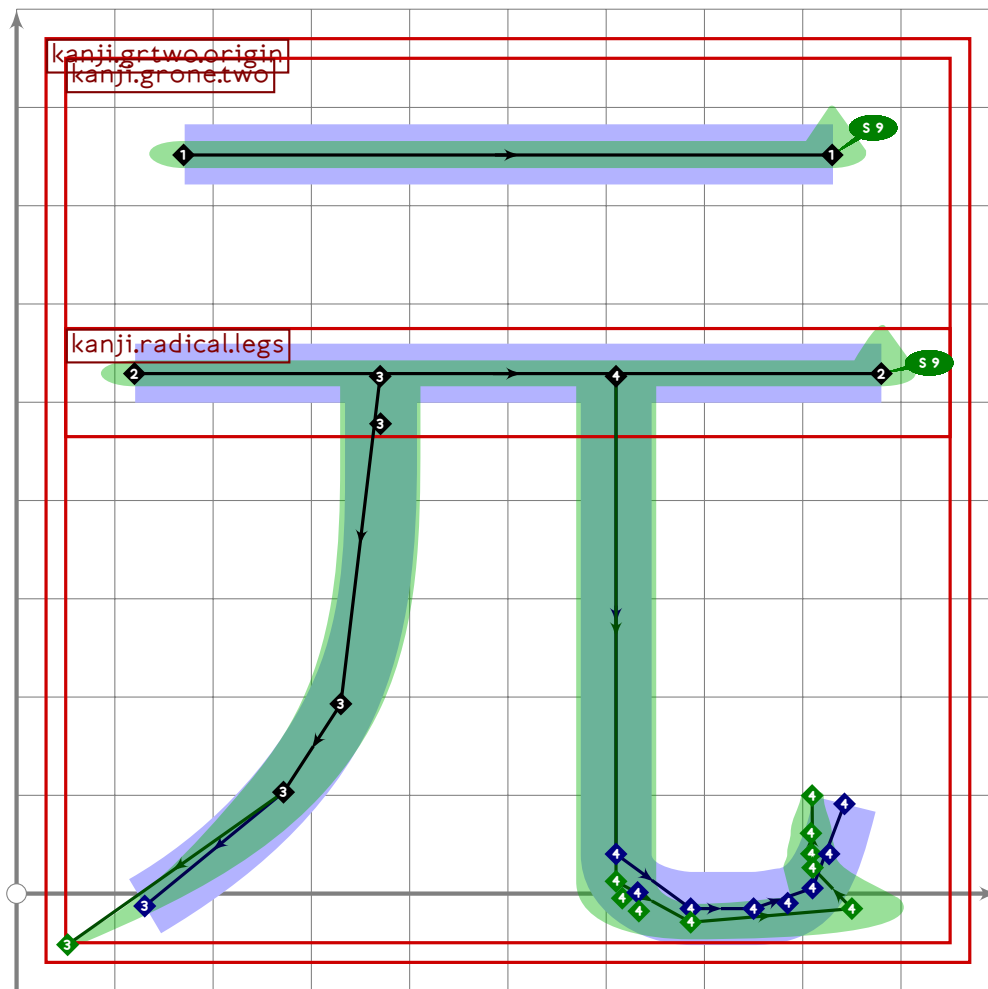
TWO



```

738
739 vardef kanji.grtwo.old =
740   push_pbox_toexpand("kanji.grtwo.old");
741   build_kanji.level(build_kanji.tb(420,100)
742     (kanji.grone.ten)
743     (build_kanji.sscale(xscaled 0.83)(kanji.grone.mouth)));
744   expand_pbox;
745 enddef;

```



TWO

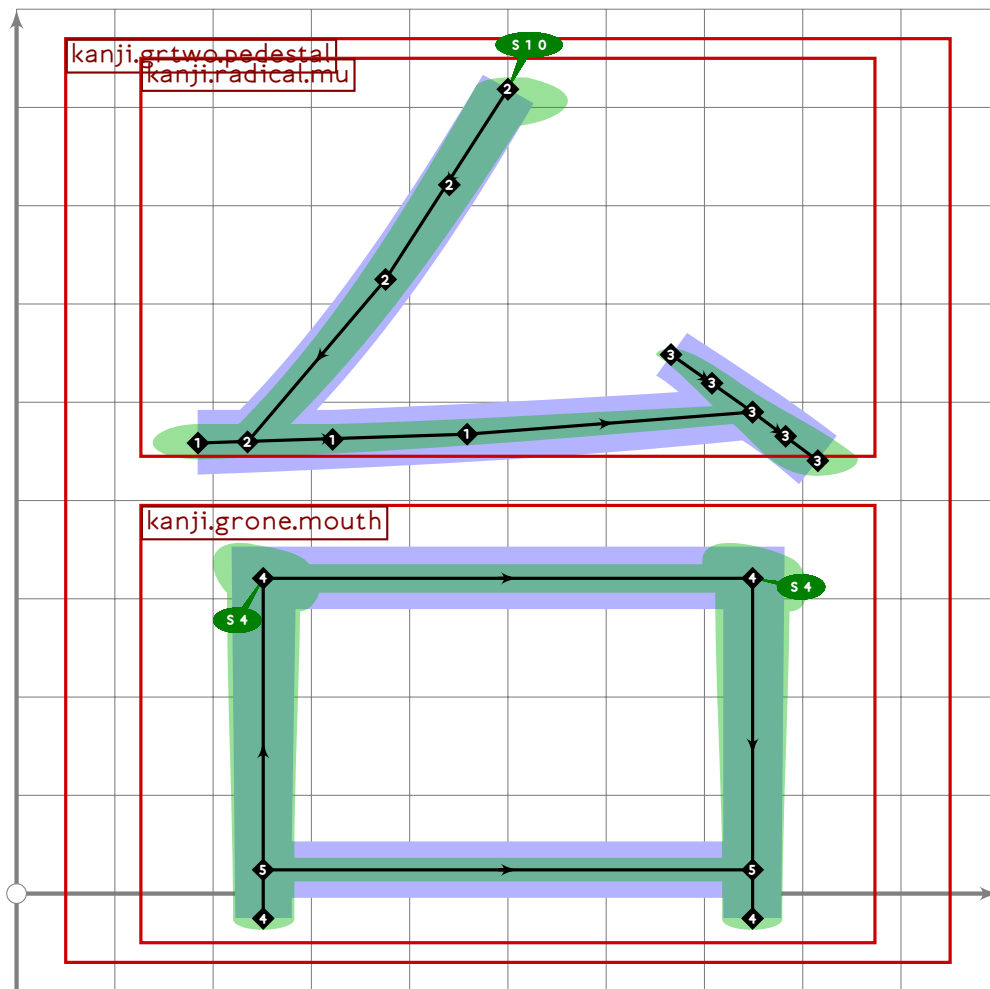
```

746
747 vardef kanji.grtwo.origin =
748   push_pbox_toexpand("kanji.grtwo.origin");
749   build_kanji.tb(520,110)
750     (kanji.grone.two)
751     (kanji.radical.legs);
752   expand_pbox;
753 enddef;

```

U+53F0
tsuku.uni53F0

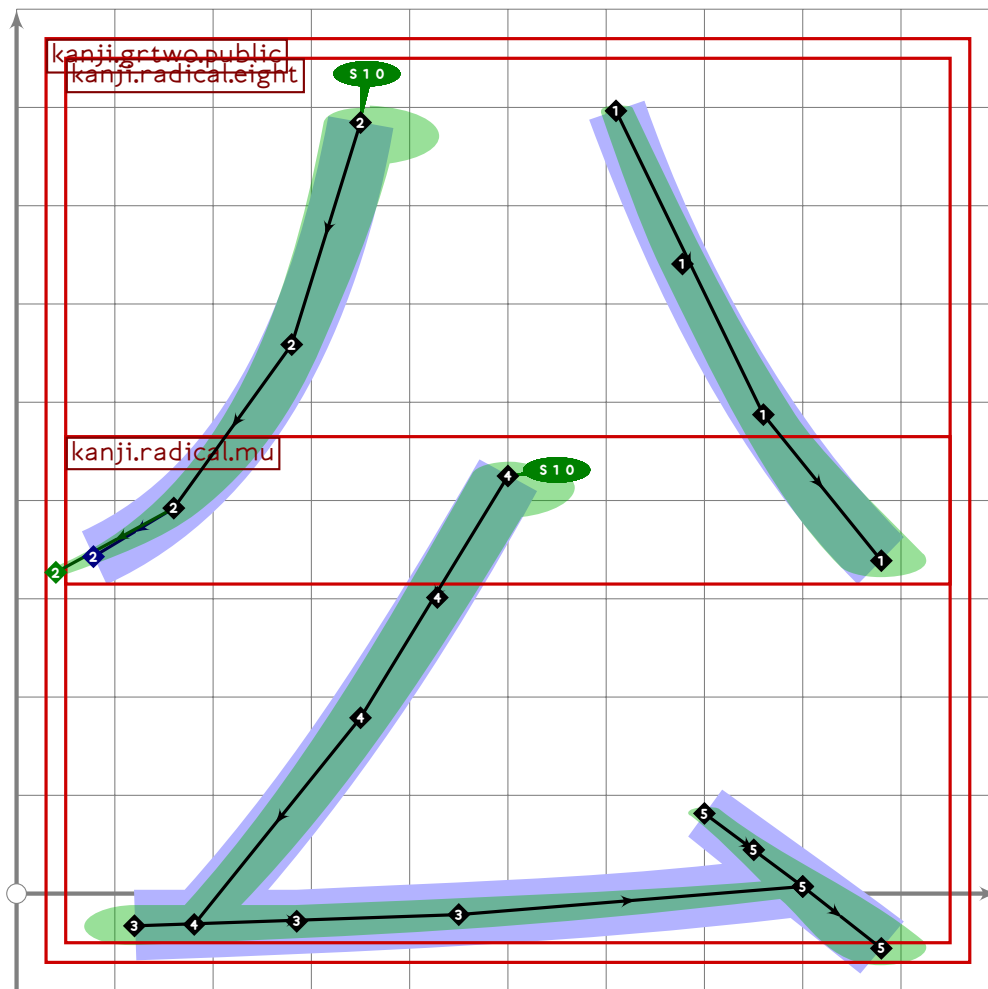
TWO



```

754
755 vardef kanji.grtwo.pedestal =
756   push_pbox_toexpand("kanji.grtwo.pedestal");
757   build_kanji.sscale(xscaled 0.83)(
758     build_kanji.level(build_kanji.tb(420,-50)
759       (kanji.radical.mu)
760       (kanji.grone.mouth)));
761   expand_pbox;
762 enddef;

```

TWO

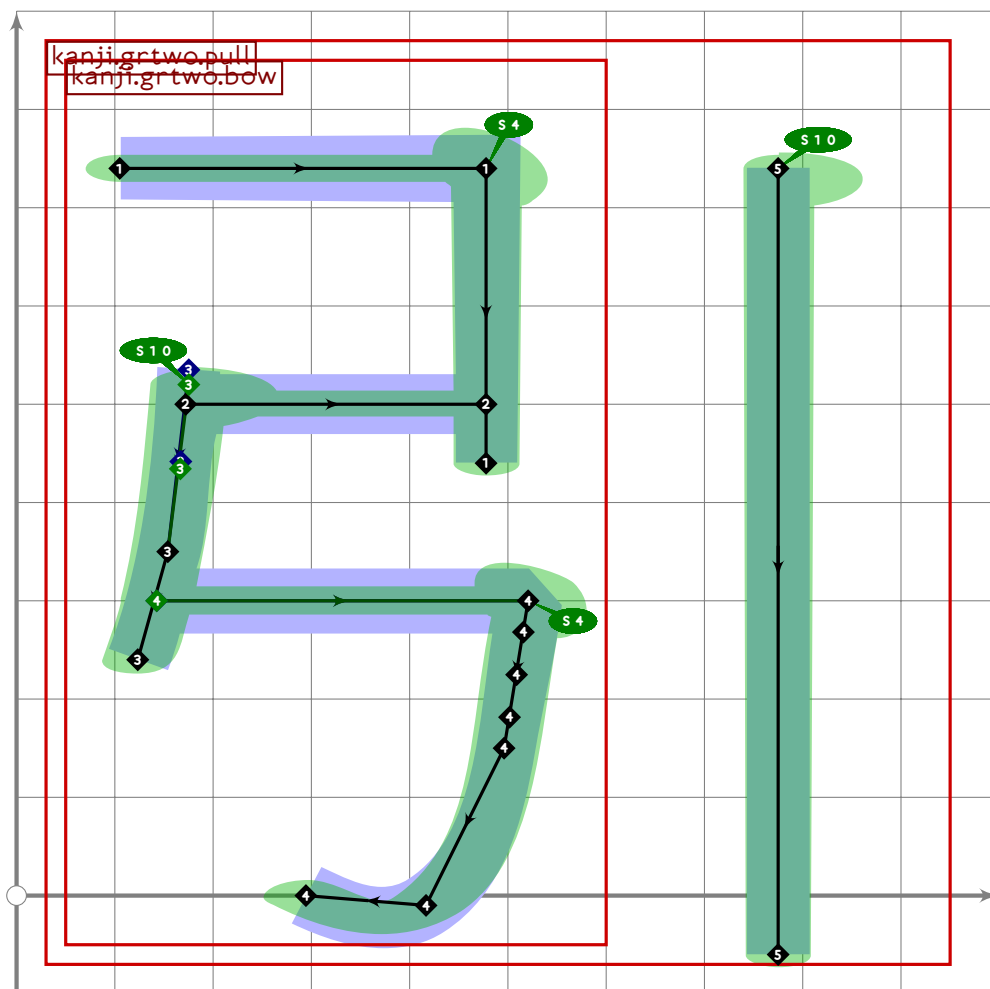
```

763
764 vardef kanji.grtwo.public =
765   push_pbox_toexpand("kanji.grtwo.public");
766   build_kanji.level(build_kanji.tb(390,150)
767     (kanji.radical.eight)
768     (kanji.radical.mu));
769   expand_pbox;
770 enddef;

```

U+5F15
tsuku.uni5F15

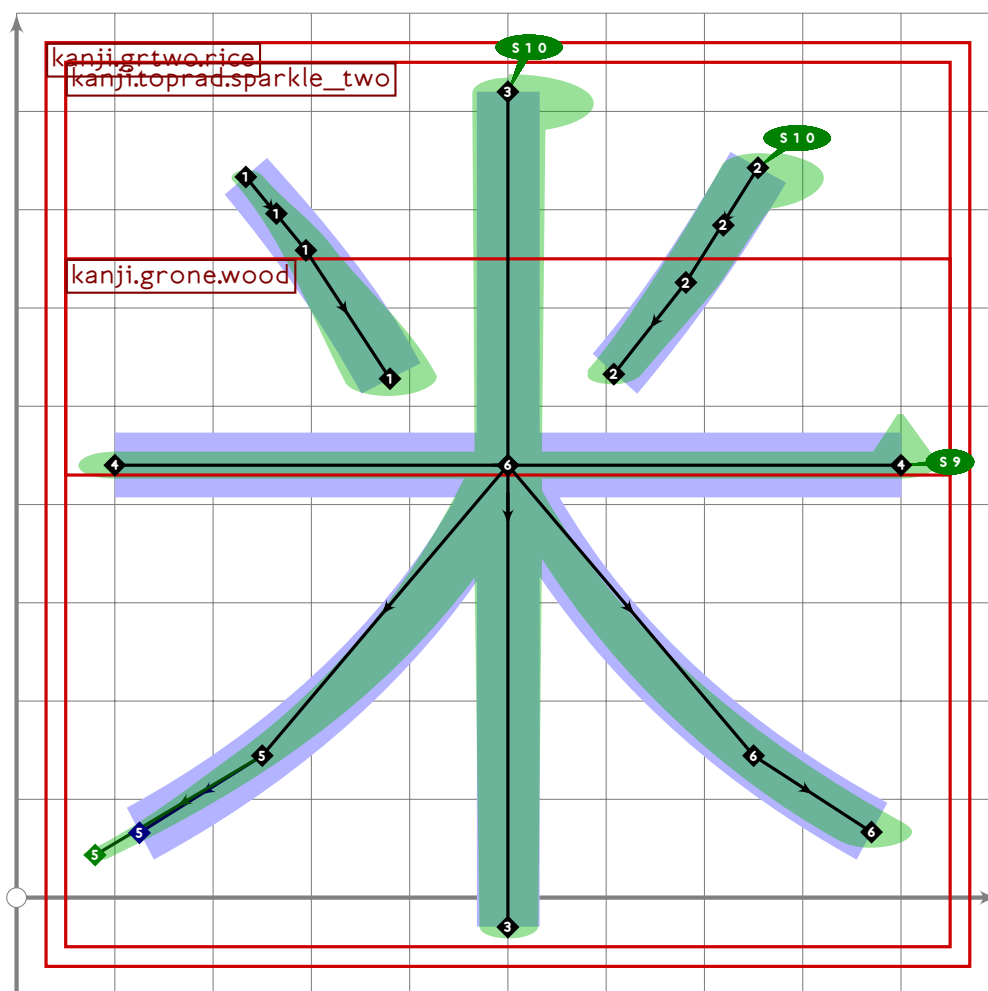
TWO



```

771
772 vardef kanji.grtwo.pull =
773   push_pbox_toexpand("kanji.grtwo.pull");
774   build_kanji.level(build_kanji.lr(600,0)
775     (kanji.grtwo.bow)
776     (push_stroke((500,740)-(500,-60),(1.6,1.6)-(1.5,1.5));
777       set_boserif(0,0,10);
778     ));
779   expand_pbox;
780 enddef;

```



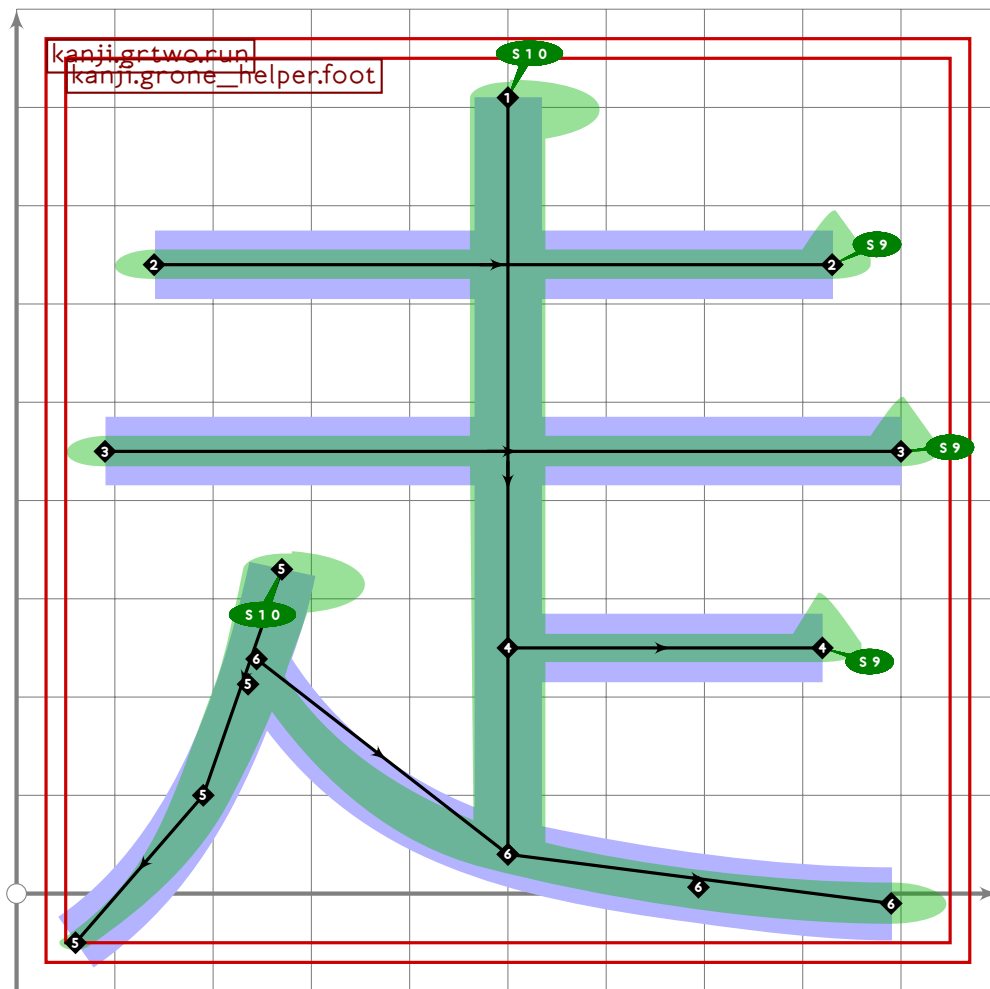
```

781
782 vardef kanji.grtwo.rice =
783   push_pbox_toexpand("kanji.grtwo.rice");
784   build_kanji.level(build_kanji.tb(540,220)
785     (build_kanji.spread_legs(-200)(kanji.toprad.sparkle_two))
786     (kanji.grone.wood));
787   replace_strokep(-3)((500,820)-(500,30));
788   replace_strokeq(-3)((1.6,1.6)-(1.4,1.4));
789   expand_pbox;
790 enddef;

```

U+8D70
tsuku.uni8D70

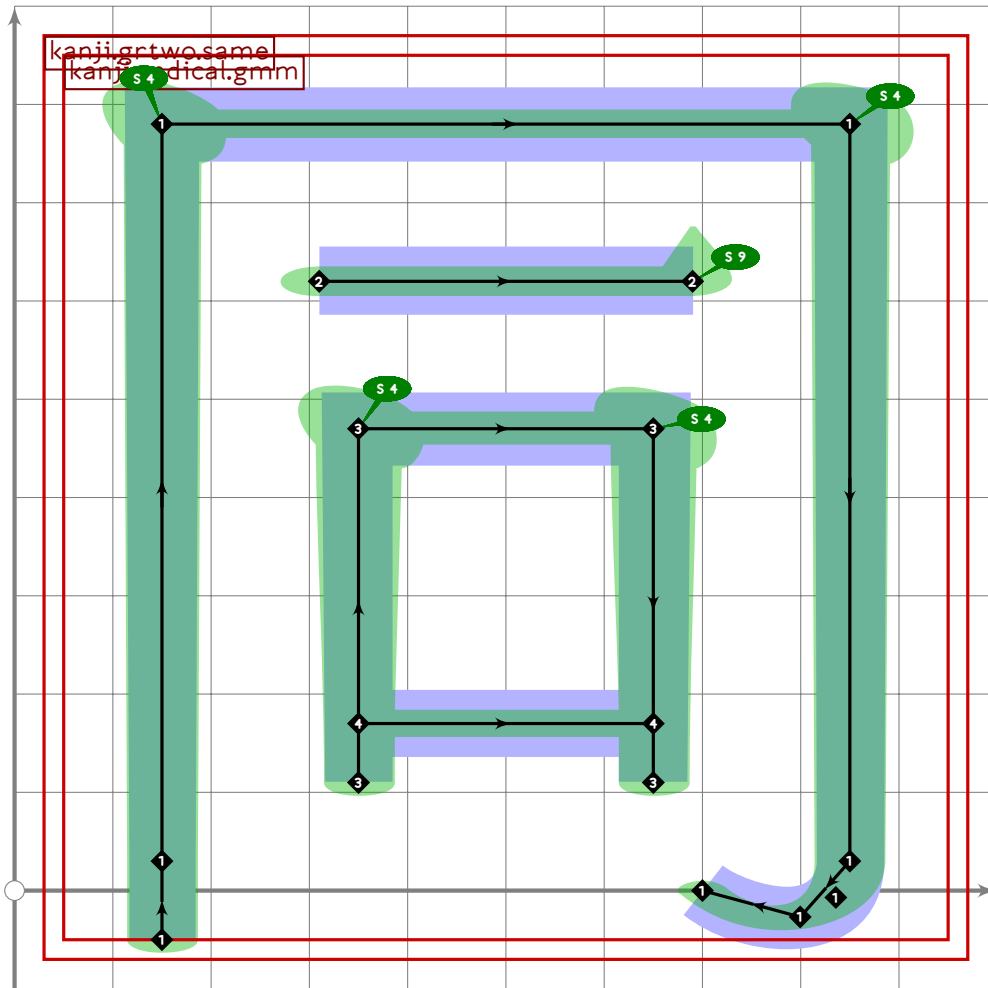
TWO



```

791
792 vardef kanji.grtwo.run =
793   push_pbox_toexpand("kanji.grtwo.run");
794   push_stroke((500,810)–(500,40),(1.6,1.6)–(1.5,1.5));
795   set_boserif(0,0,10);
796   push_stroke((140,640)–(830,640),(1.6,1.6)–(1.6,1.6));
797   set_boserif(0,1,9);
798   push_stroke((90,450)–(900,450),(1.6,1.6)–(1.6,1.6));
799   set_boserif(0,1,9);
800   push_stroke((500,250)–(820,250),(1.5,1.5)–(1.6,1.6));
801   set_boserif(0,1,9);
802   kanji.grone_helper.foot;
803   expand_pbox;
804 enddef;

```



TWO

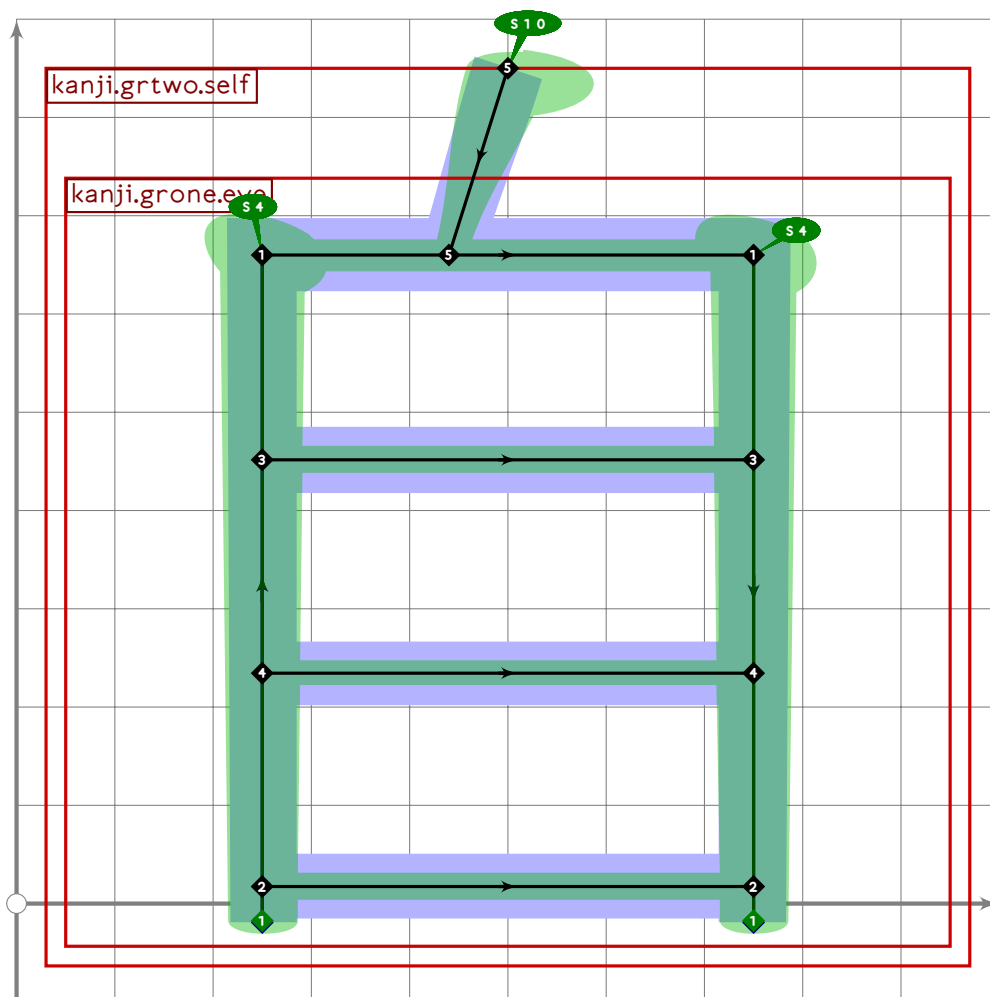
```

805
806 vardef kanji.grtwo.same =
807   push_pbox_toexpand("kanji.grtwo.same");
808   kanji.radical.gmm;
809   push_stroke((310,620)-(690,620),(1.6,1.6)-(1.6,1.6));
810   set_boserif(0,1,9);
811   build_kanji.box((350,470),(650,170));
812   expand_pbox;
813 enddef;

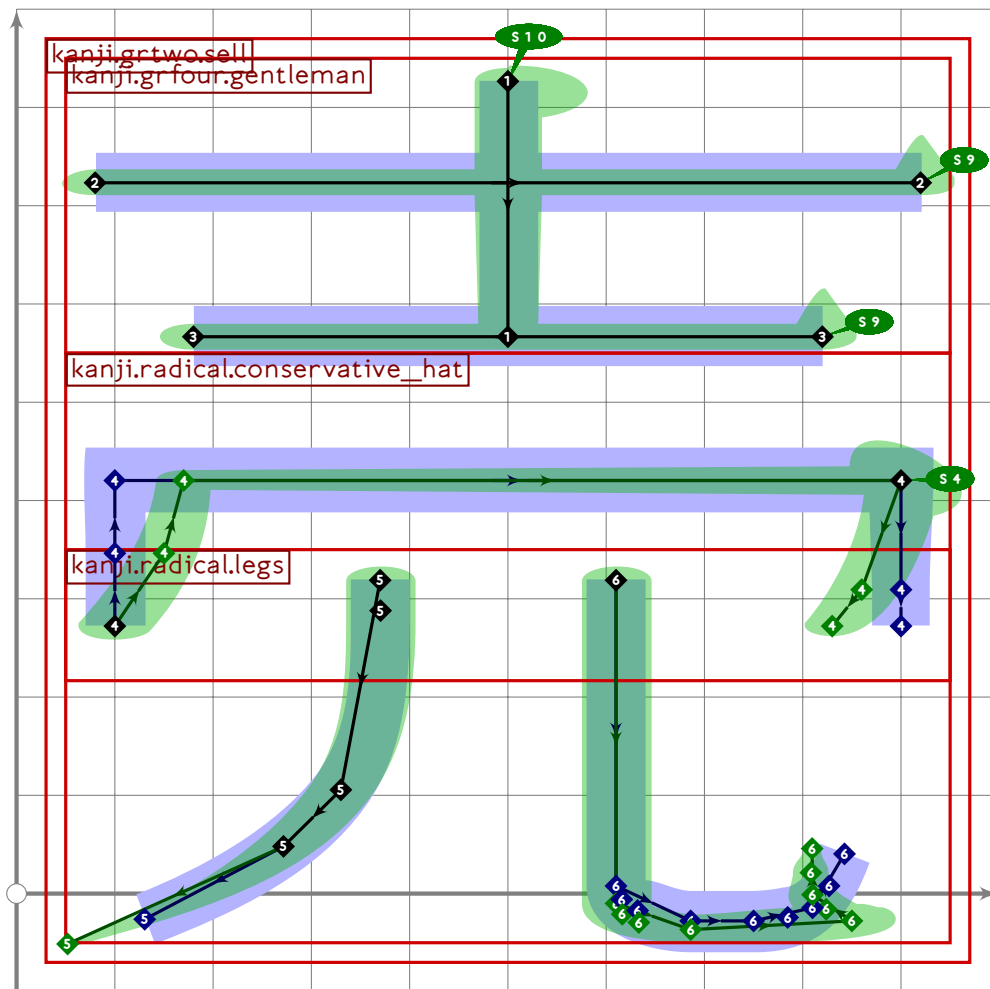
```

U+81EA
tsuku.uni81EA

TWO



```
814
815 vardef kanji.grtwo.self =
816   push_pbox_toexpand("kanji.grtwo.self");
817   build_kanji.attach_tick(660)(kanji.grone.eye);
818   expand_pbox;
819 enddef;
```



TWO

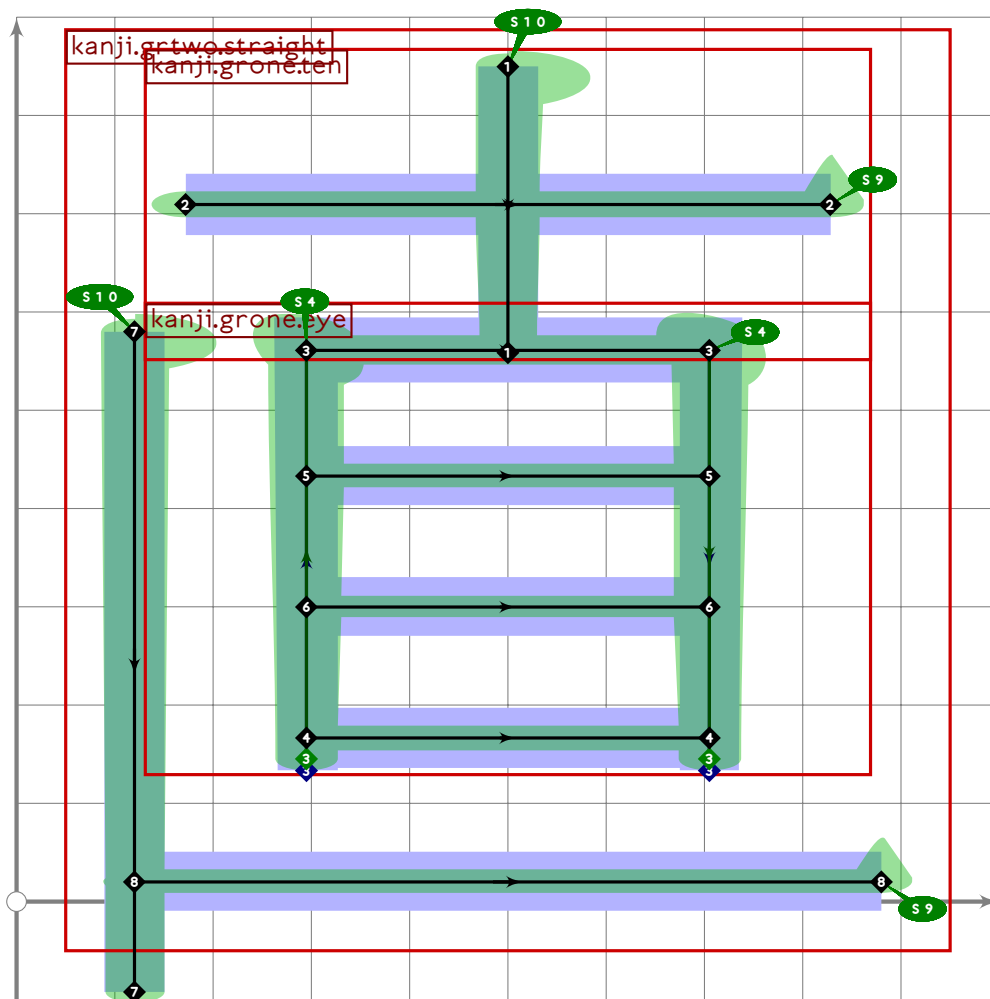
```

820
821 vardef kanji.grtwo.sell =
822   push_pbox_toexpand("kanji.grtwo.sell");
823   build_kanji.level(build_kanji.tb(550,0)
824     (kanji.grfour.gentleman)
825     (build_kanji.tb(450,200)
826       (kanji.radical.conservative_hat)
827       (kanji.radical.legs)));
828   expand_pbox;
829 enddef;

```

U+76F4
tsuku.uni76F4

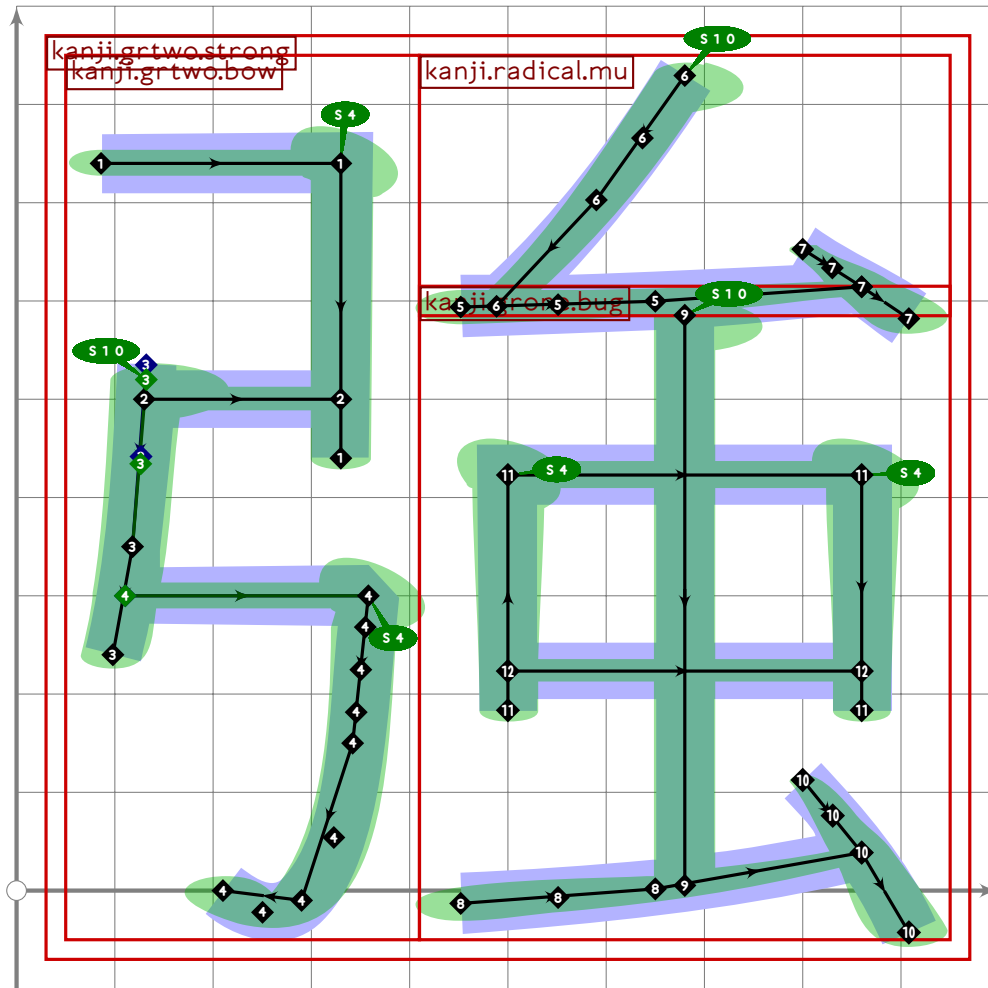
TWO



```

830
831 vardef kanji.grtwo.straight =
832   push_pbox_toexpand("kanji.grtwo.straight");
833   build_kanji.level(
834     build_kanji.sscale(scaled 0.82 shifted (0,100))
835     (build_kanji.tb(500,70)
836       (kanji.grone.ten)
837       (kanji.grone.eye));
838     build_kanji.cup((120,580),(880,20));
839     set_bosize(-1,0);
840     set_boserif(0,1,9);
841   );
842   expand_pbox;
843 enddef;

```

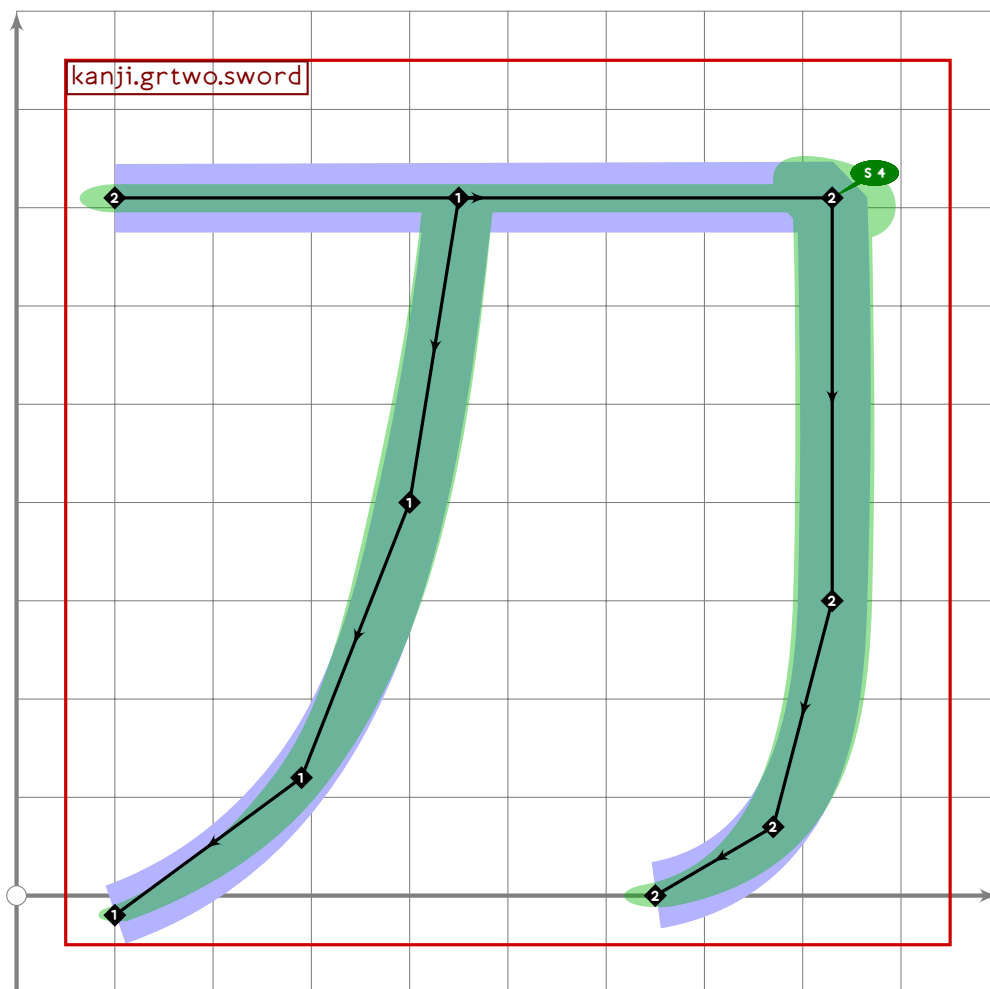
TWO

```

844
845 vardef kanji.grtwo.strong =
846   push_pbox_toexpand("kanji.grtwo.strong");
847   build_kanji.level(build_kanji.lr(410,0)
848     (kanji.grtwo.bow)
849     (build_kanji.tb(600,30)
850       (kanji.radical.mu)
851       (kanji.grone.bug)));
852   expand_pbox;
853 enddef;

```

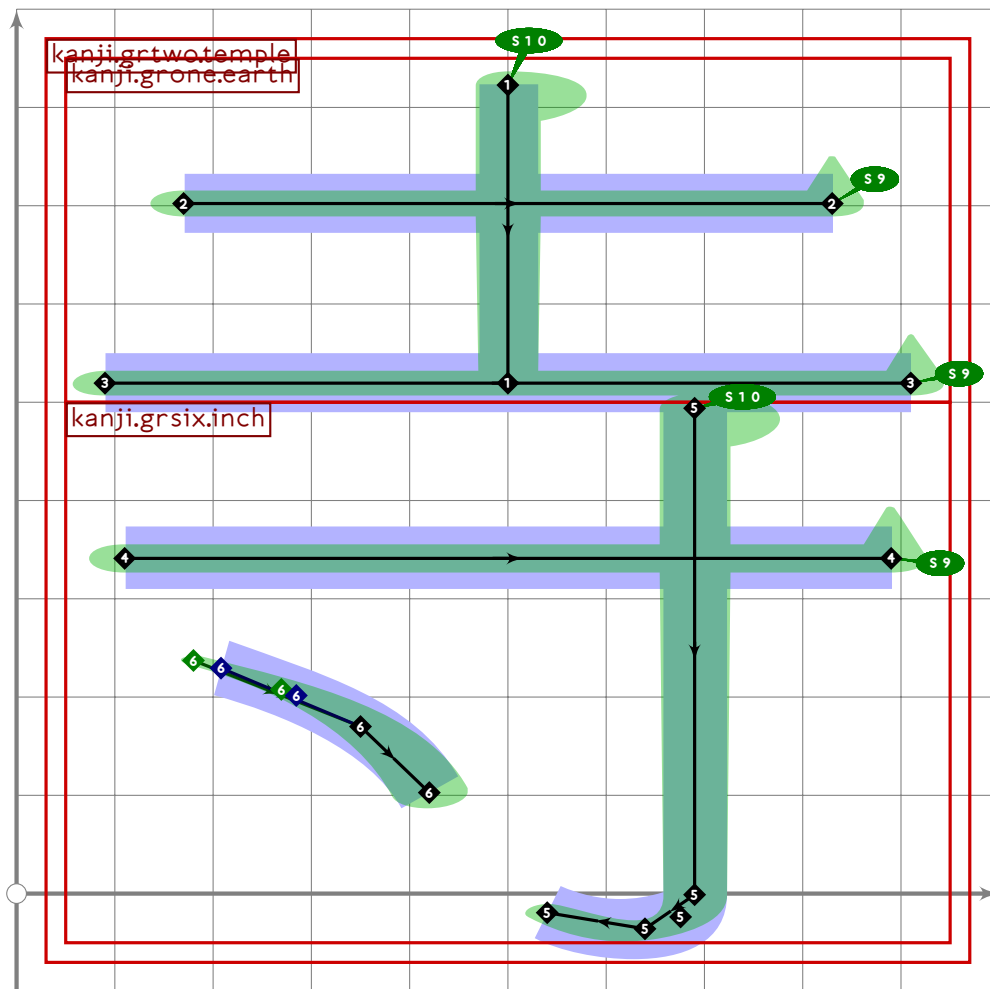
TWO



```

854
855 vardef kanji.grtwo.sword =
856   push_pbox_toexpand("kanji.grtwo.sword");
857   push_stroke((450,710)..(400,400)..(290,120)..(100,-20),
858     (1.5,1.5)-(1.6,1.6)-(1.3,1.3)-(1,1));
859   push_stroke((100,710)-(830,710)..tension 11..(830,300)..(770,70)..(650,0),
860     (1.5,1.5)-(1.6,1.6)-(1.6,1.6)-(1.6,1.6)-(1.4,1.4));
861   set_botip(0,1,0);
862   set_boserif(0,1,4);
863   expand_pbox;
864 enddef;

```



TWO

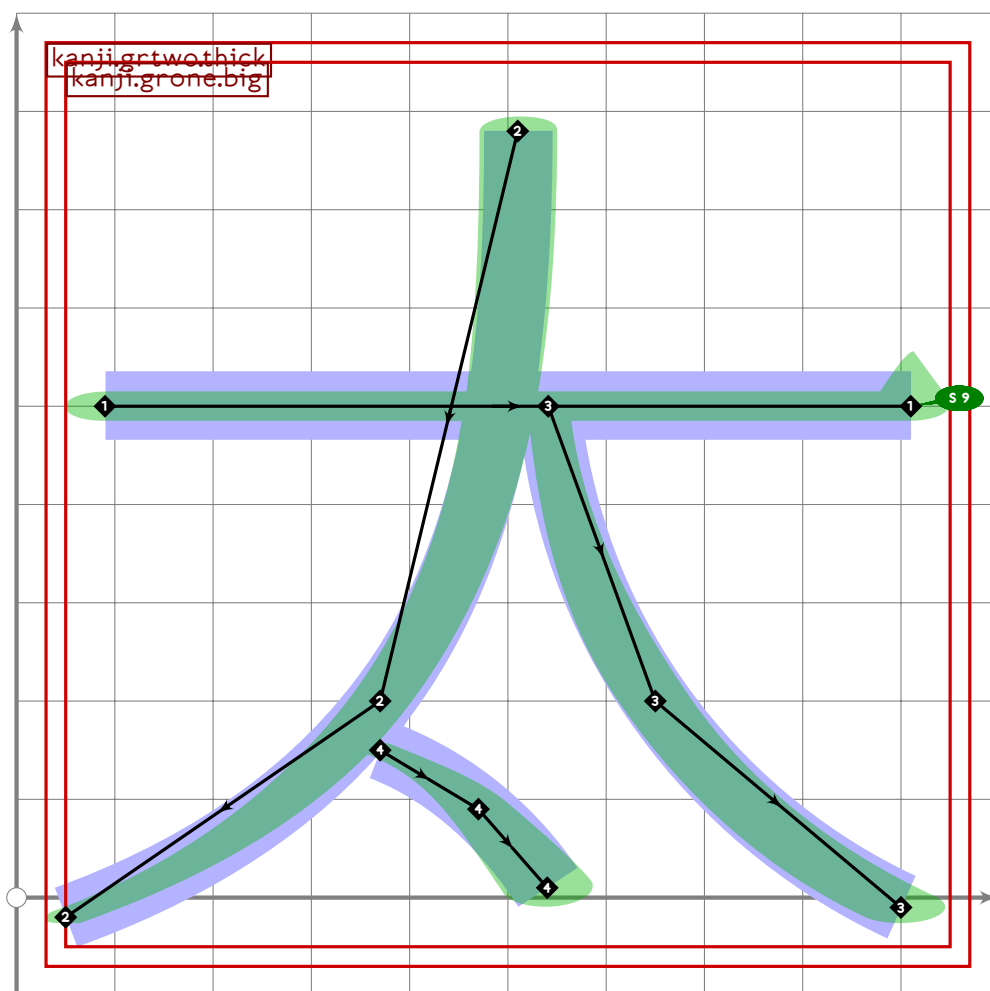
```

865
866 vardef kanji.grtwo.temple =
867   push_pbox_toexpand("kanji.grtwo.temple");
868   build_kanji.tb(500,0)
869     (kanji.grone.earth)
870     (kanji.grsix.inch;
871       replace_stroke(-1)((point 0 of oldp)+(0,60))
872         -(subpath (1,infinity) of oldp)));
873   expand_pbox;
874 enddef;

```

U+592A
tsuku.uni592A

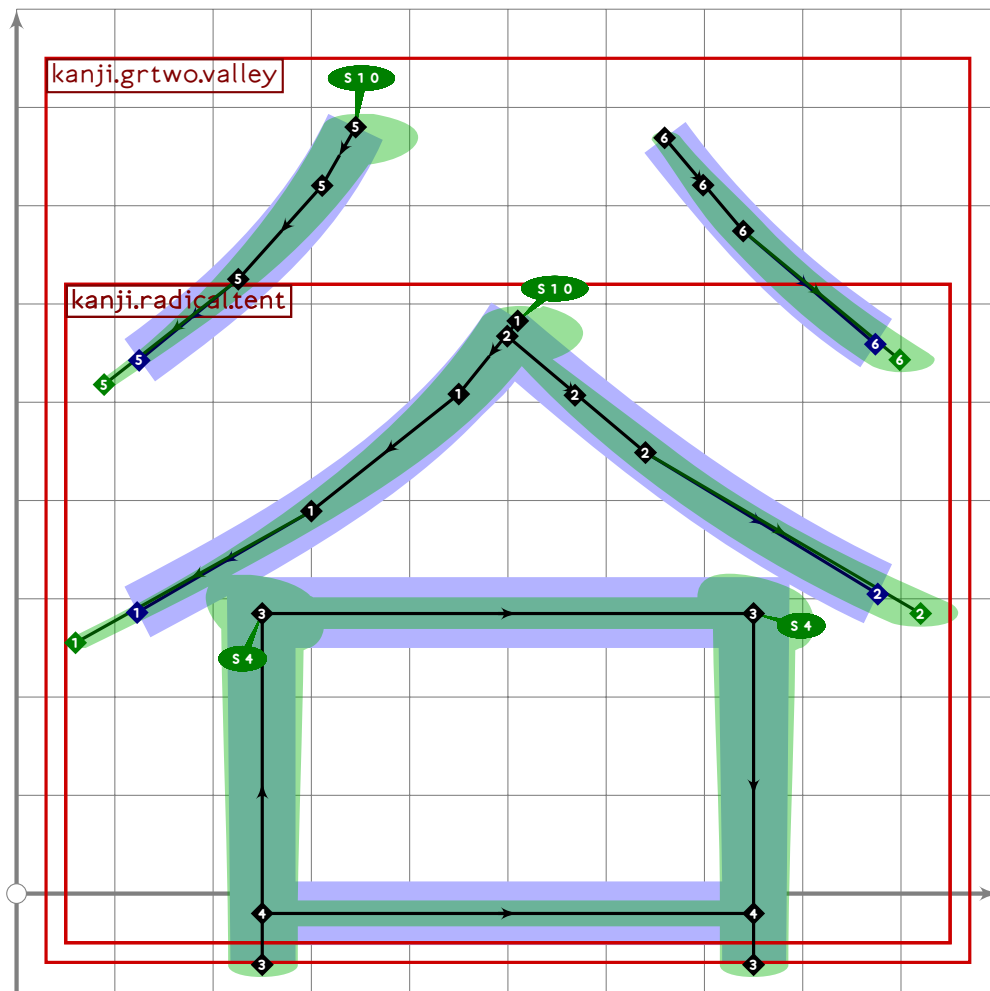
TWO



```

875
876 vardef kanji.grtwo.thick =
877   push_pbox_toexpand("kanji.grtwo.thick");
878   kanji.grone.big;
879   push_stroke((370,150)..(470,90)..(540,10),
880     (1,1)-(14,14)-(18,1.8));
881   expand_pbox;
882 enddef;

```



TWO

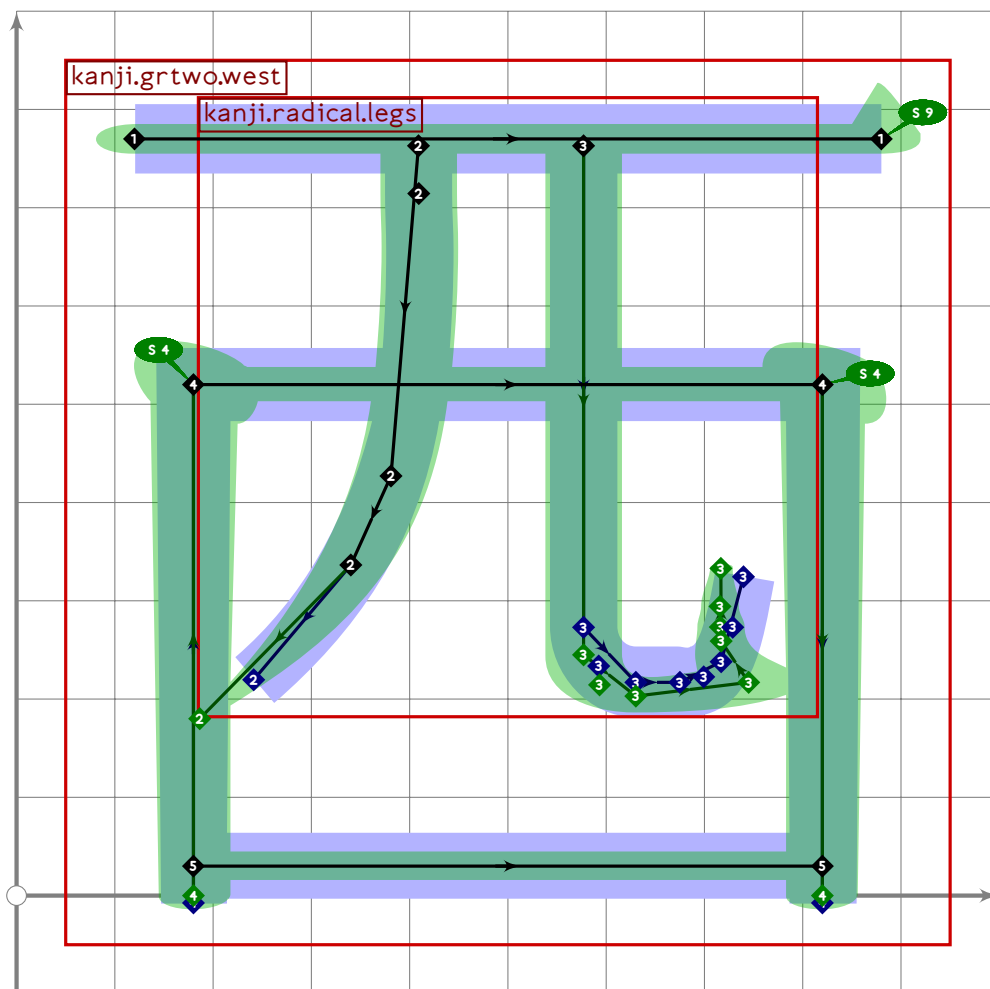
```

883
884 vardef kanji.grtwo.valley =
885   push_pbox_toexpand("kanji.grtwo.valley");
886   build_kanji.harmonic(230,0.8,260)(build_kanji.level(
887     kanji.radical.tent;
888     pop_stroke;
889     build_kanji.box((250,400),(750,-10)));
890   ));
891   expand_pbox;
892 enddef;

```

U+897F
tsuku.uni897F

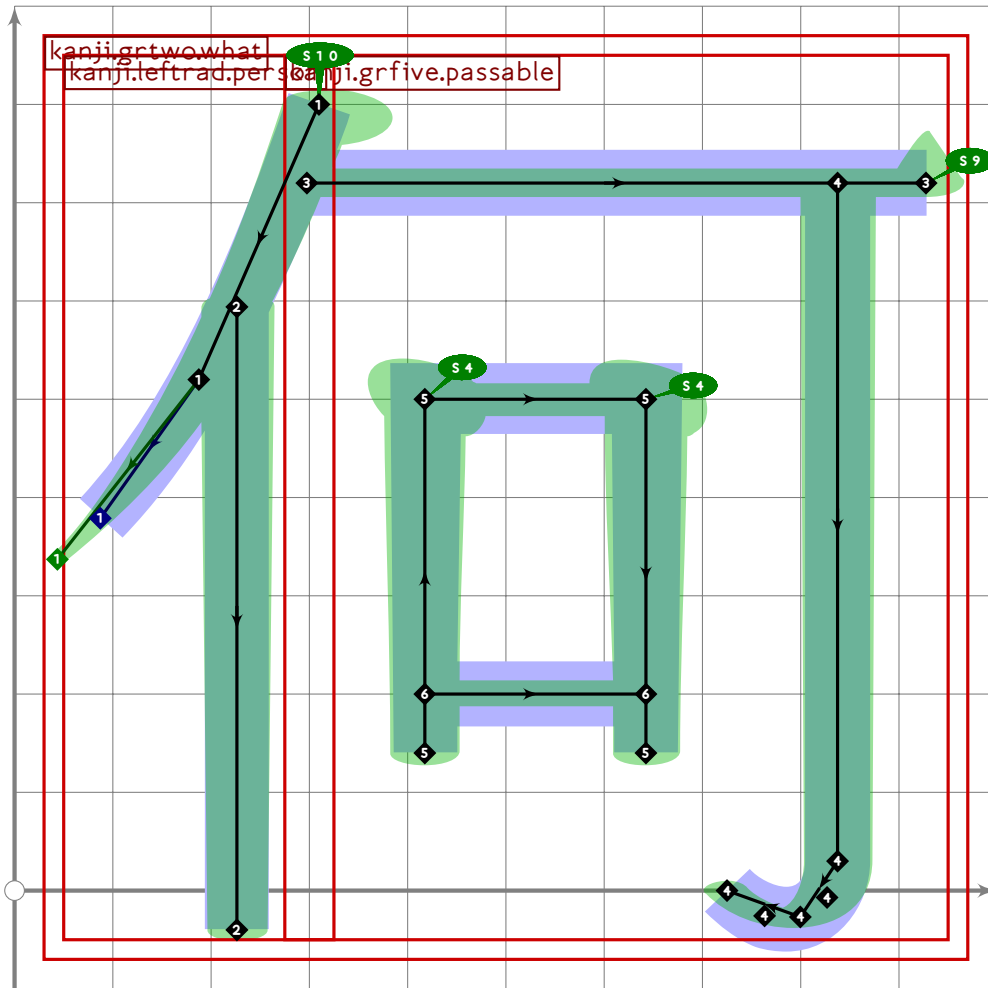
TWO



```

893
894 vardef kanji.grtwo.west =
895   push_pbox_toexpand("kanji.grtwo.west");
896   push_stroke((120,770)-(880,770),(1.6,1.6)-(1.6,1.6));
897   set_boserif(0,19);
898   build_kanji.sscale(scaled 0.7 shifted (0,100))
899     (kanji.radical.legs);
900   build_kanji.box((180,520),(820,30));
901   expand_pbox;
902 enddef;

```



TWO

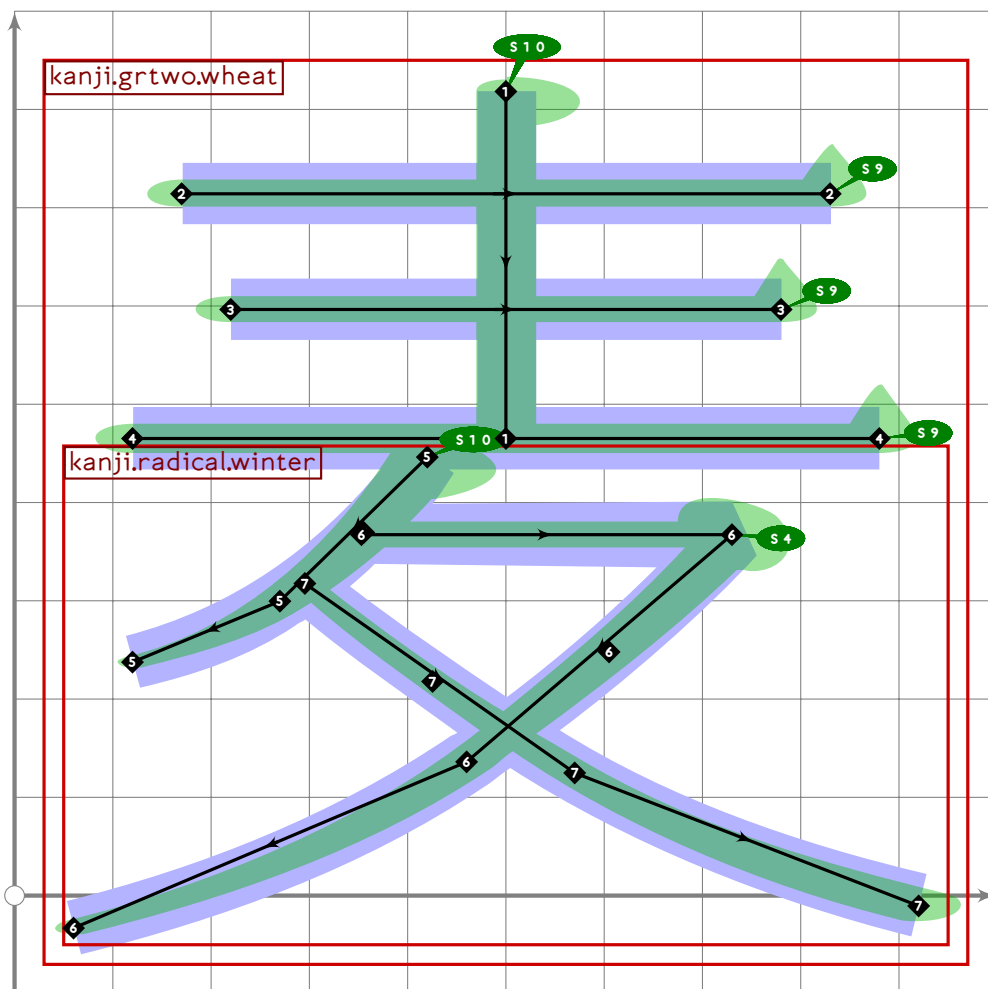
```

903
904 vardef kanji.grtwo.what =
905   push_pbox_toexpand("kanji.grtwo.what");
906   build_kanji.lr(300,50)
907     (kanji.leftrad.person)
908     (kanji.grfive.passable);
909   expand_pbox;
910 enddef;

```

U+9EA6
tsuku.uni9EA6

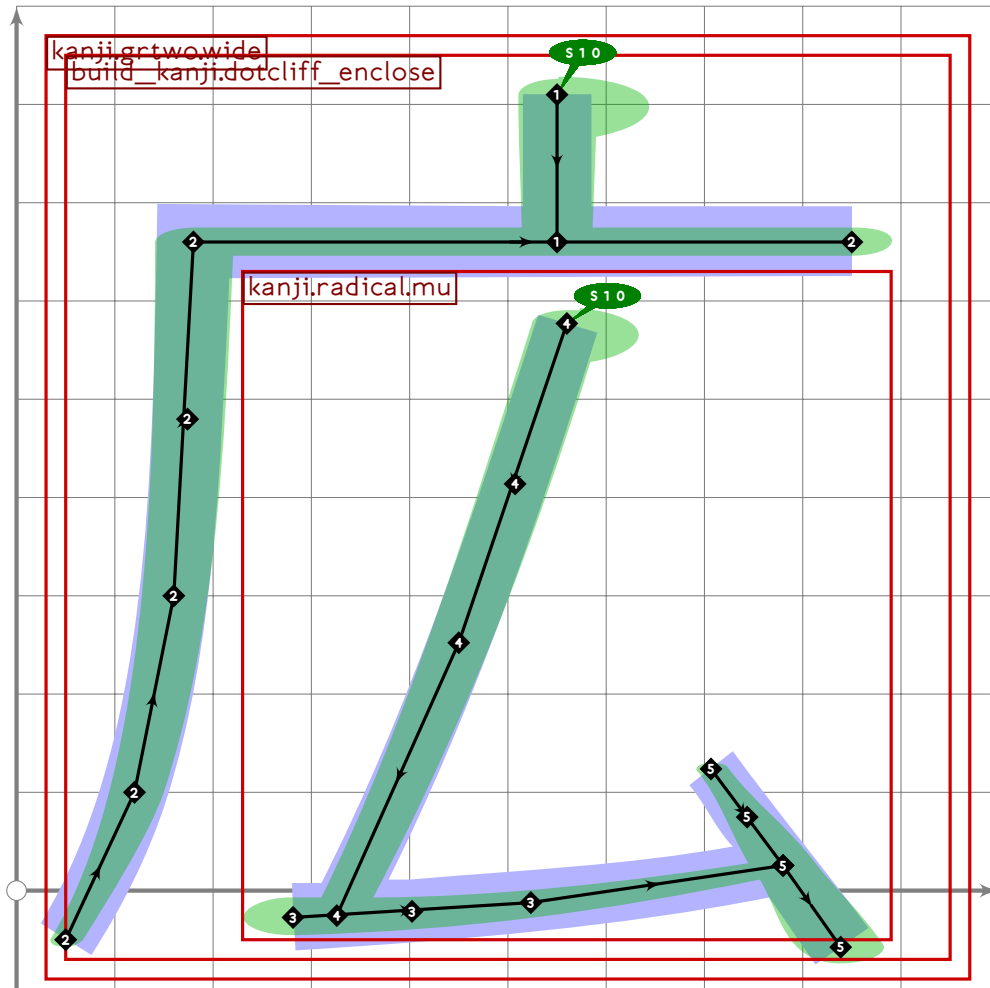
TWO



```

911
912 vardef kanji.grtwo.wheat =
913   push_pbox_toexpand("kanji.grtwo.wheat");
914   build_kanji.level(build_kanji.tb(450,15)
915     (push_stroke((500,780)-(500,0),
916       (1.5,1.5)-(1.4,1.4));
917     set_boserif(0,0,10);
918     push_stroke((170,550)-(830,550),
919       (1.6,1.6)-(1.6,1.6));
920     set_boserif(0,1,9);
921     push_stroke((220,290)-(780,290),
922       (1.6,1.6)-(1.6,1.6));
923     set_boserif(0,1,9);
924     push_stroke((120,0)-(880,0),
925       (1.7,1.7)-(1.7,1.7));
926     set_boserif(0,1,9))
927     (kanji.radical.winter));
928   expand_pbox;
929 enddef;

```

TWO

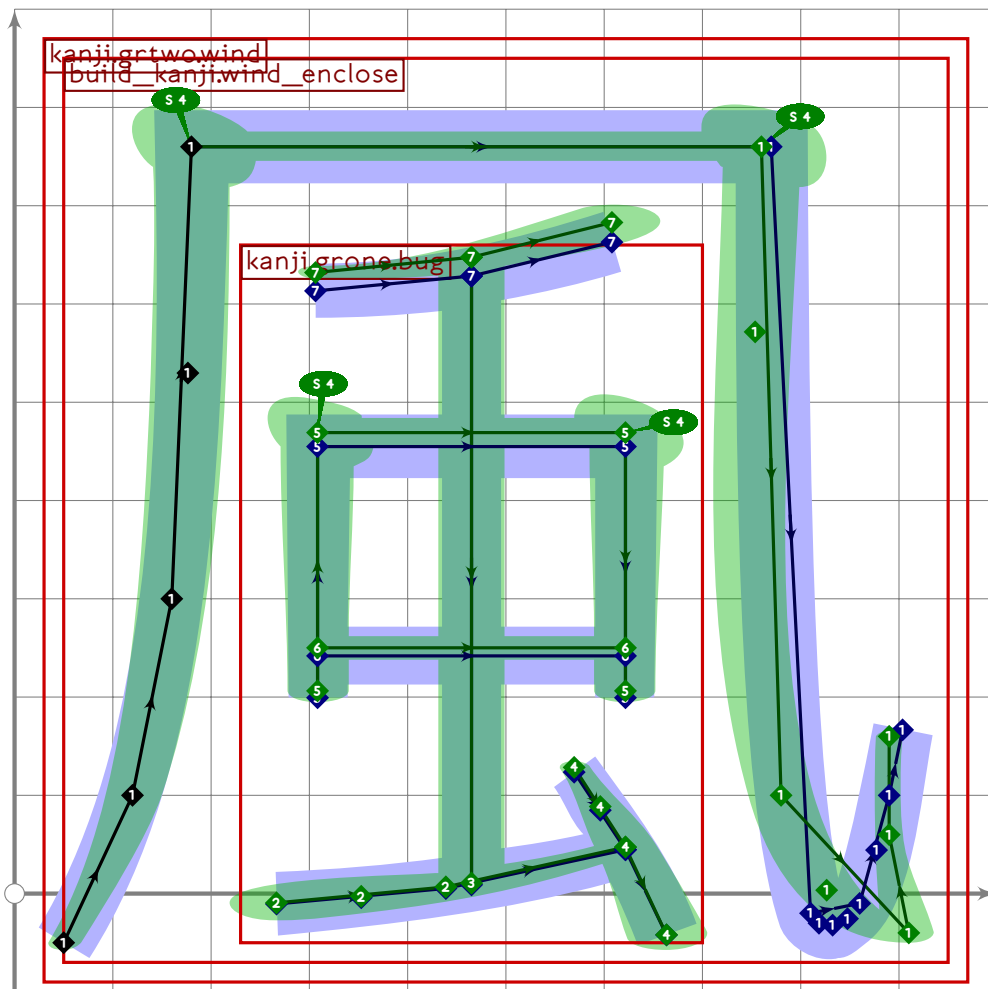
```

930
931 vardef kanji.grtwo.wide =
932   push_pbox_toexpand("kanji.grtwo.wide");
933   build_kanji.dotcliff_enclose(kanji.radical.mu);
934   expand_pbox;
935 enddef;

```

U+98A8
tsuku.uni98A8

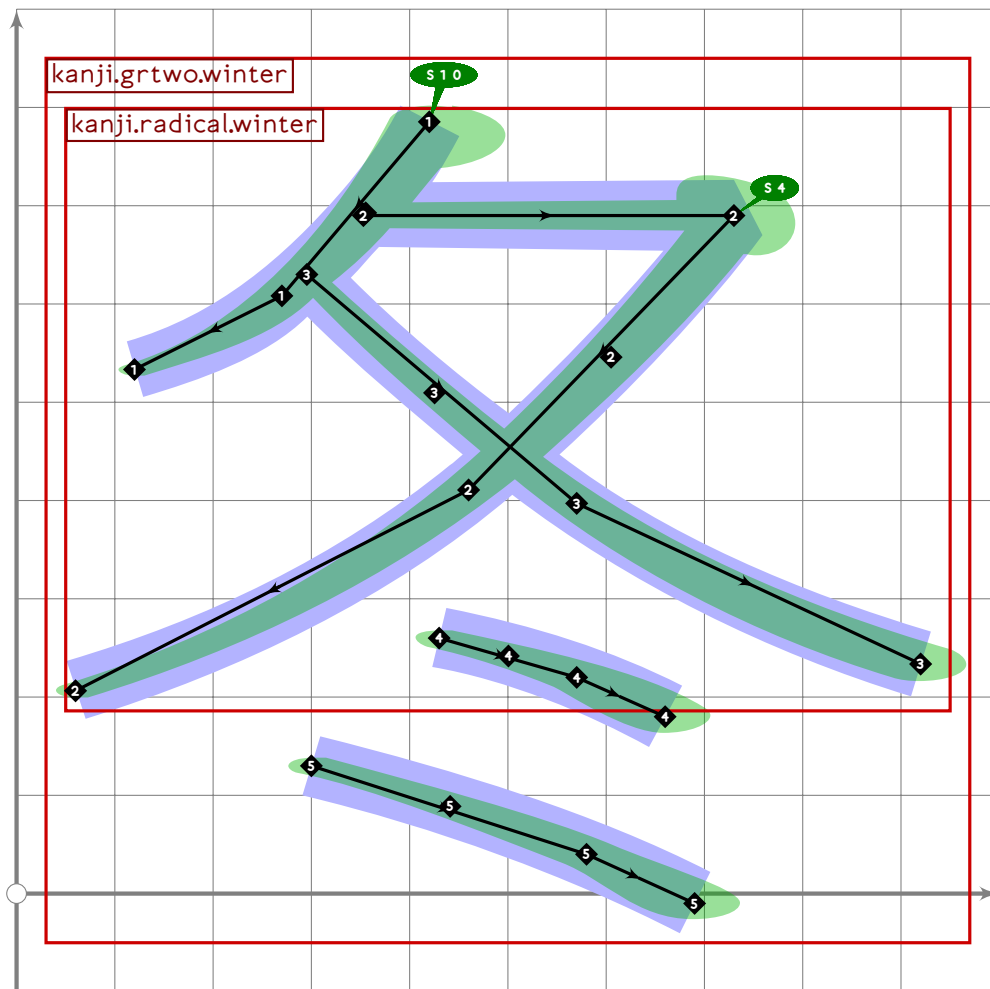
TWO



```

936
937 vardef kanji.grtwo.wind =
938   push_pbox_toexpand("kanji.grtwo.wind");
939   build_kanji.wind_enclose(build_kanji.add_beret(kanji.grone.bug));
940   expand_pbox;
941 enddef;

```



TWO

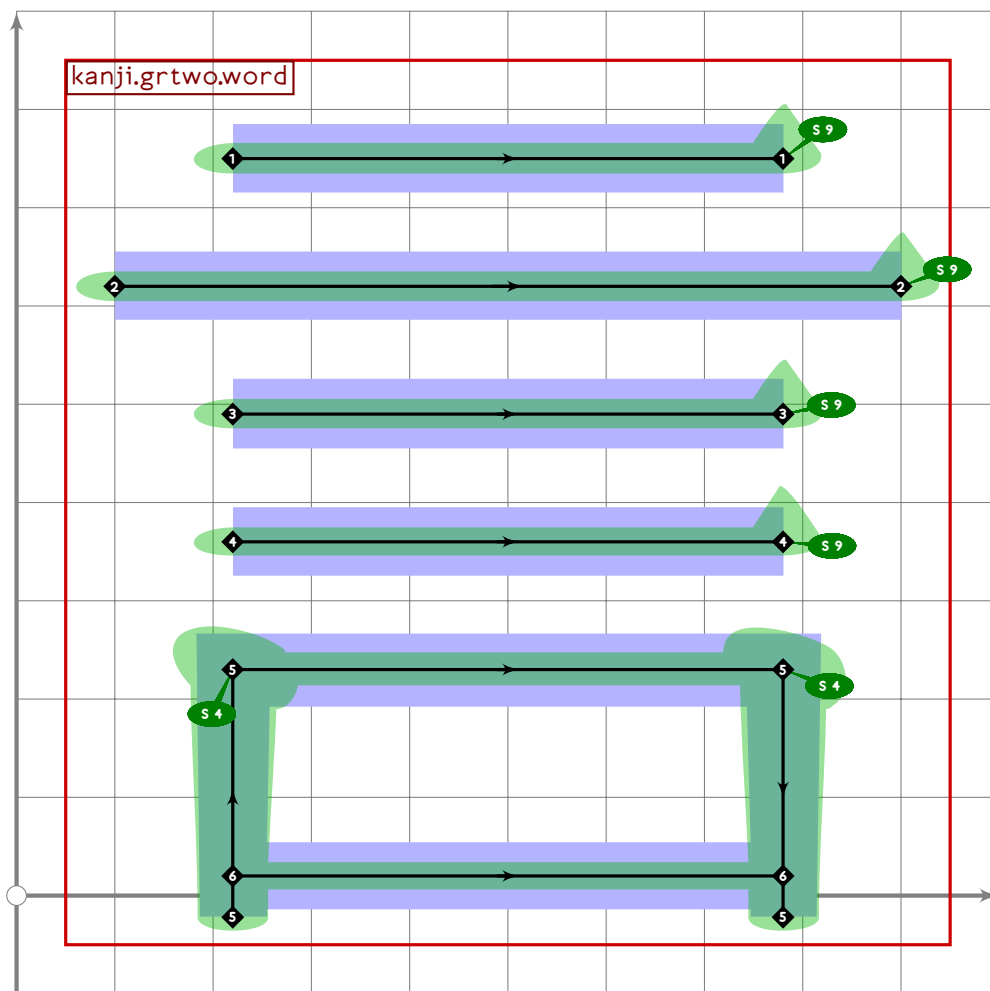
```

942
943 vardef kanji.grtwo.winter =
944   push_pbox_toexpand("kanji.grtwo.winter");
945   build_kanji.level(
946     tsu_xform(begingroup
947       save myxf;
948       transform myxf;
949       (0,690) transformed myxf=(0,690);
950       (1000,690) transformed myxf=(1000,690);
951       (500,0) transformed myxf=(500,220);
952       myxf
953     endgroup)(kanji.radical.winter);
954   push_stroke((430,260)..tension 1.2..(570,220)..(660,180),
955     (1.2,1.2)-(1.5,1.5)-(1.8,1.8));
956   push_stroke((300,130)..tension 1.2..(580,40)..(690,10),
957     (1.2,1.2)-(1.5,1.5)-(1.8,1.8));
958 );
959   expand_pbox;
960 enddef;

```

U+8A00
tsuku.uni8A00

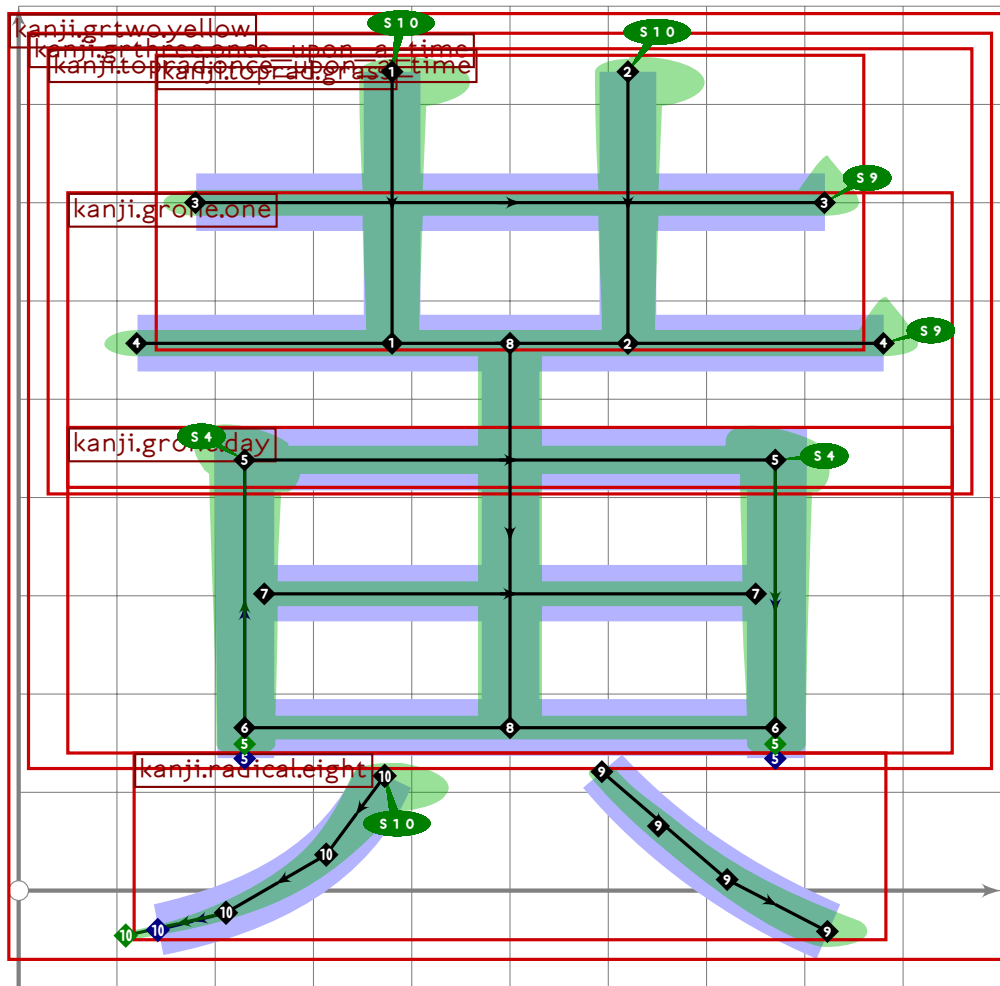
TWO



```

961
962 vardef kanji.grtwo.word =
963   push_pbox_toexpand("kanji.grtwo.word");
964   push_stroke((220,750)-(780,750),(1.6,1.6)-(1.6,1.6));
965   set_boserif(0,1,9);
966   push_stroke((100,620)-(900,620),(1.6,1.6)-(1.6,1.6));
967   set_boserif(0,1,9);
968   push_stroke((220,490)-(780,490),(1.6,1.6)-(1.6,1.6));
969   set_boserif(0,1,9);
970   push_stroke((220,360)-(780,360),(1.6,1.6)-(1.6,1.6));
971   set_boserif(0,1,9);
972   build_kanji.box((220,230),(780,20));
973   expand_pbox;
974 enddef;

```



TWO

```

975
976 vardef kanji.grtwo.yellow =
977   push_pbox_toexpand("kanji.grtwo.yellow");
978   build_kanji.level(build_kanji.tb(140,0)
979     (kanji.grthree.once_upon_a_time;
980       push_stroke((point 0.5 of get_stroke(-3))-
981         (point 0.5 of get_stroke(-1)),
982         (1.6,1.6)-(1.5,1.5)))
983     (build_kanji.sscale(xscaled 0.85)(kanji.radical.eight)));
984   expand_pbox;
985 enddef;

```

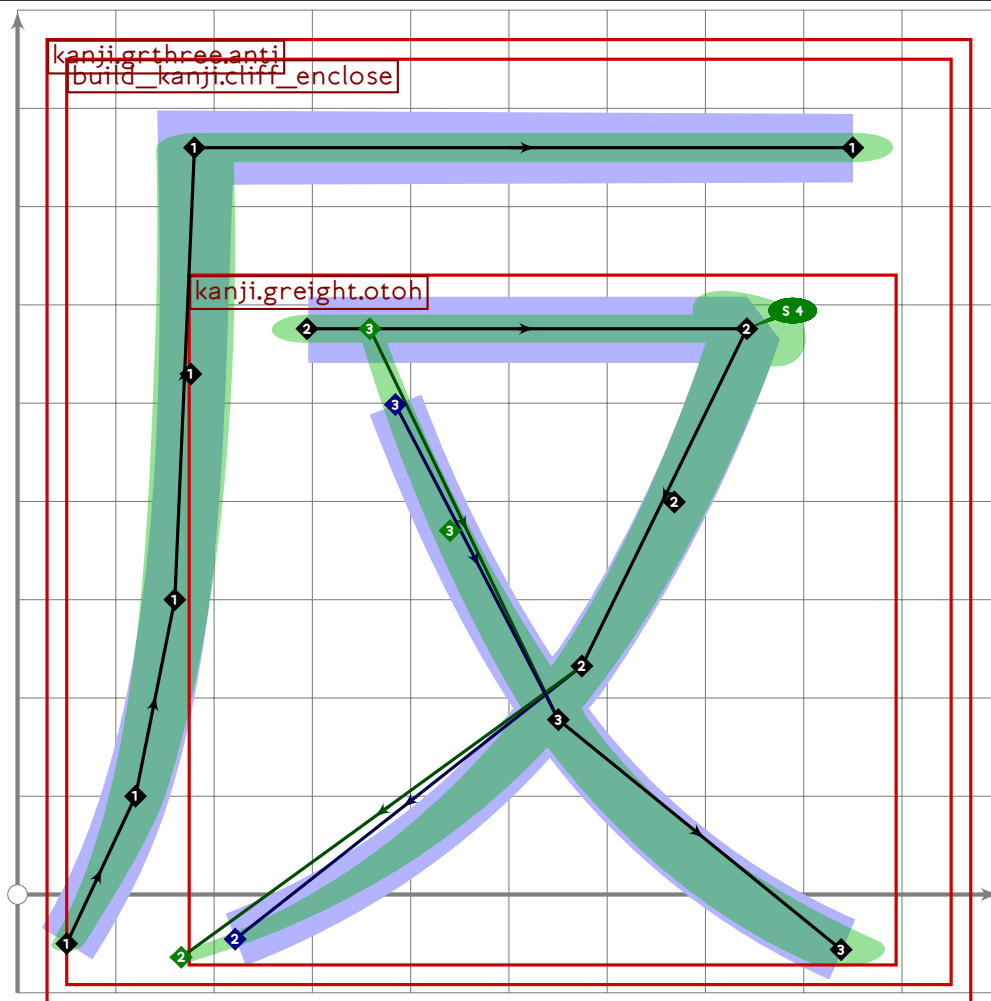
gradethree.mp

```

1 %
2 % Grade Three kanji used on more than one page
3 % Copyright (C) 2011, 2012, 2013 Matthew Skala
4 %
5-29 [Standard copyright notice]
30
31 inclusion_lock(gradethree);
32
33

```

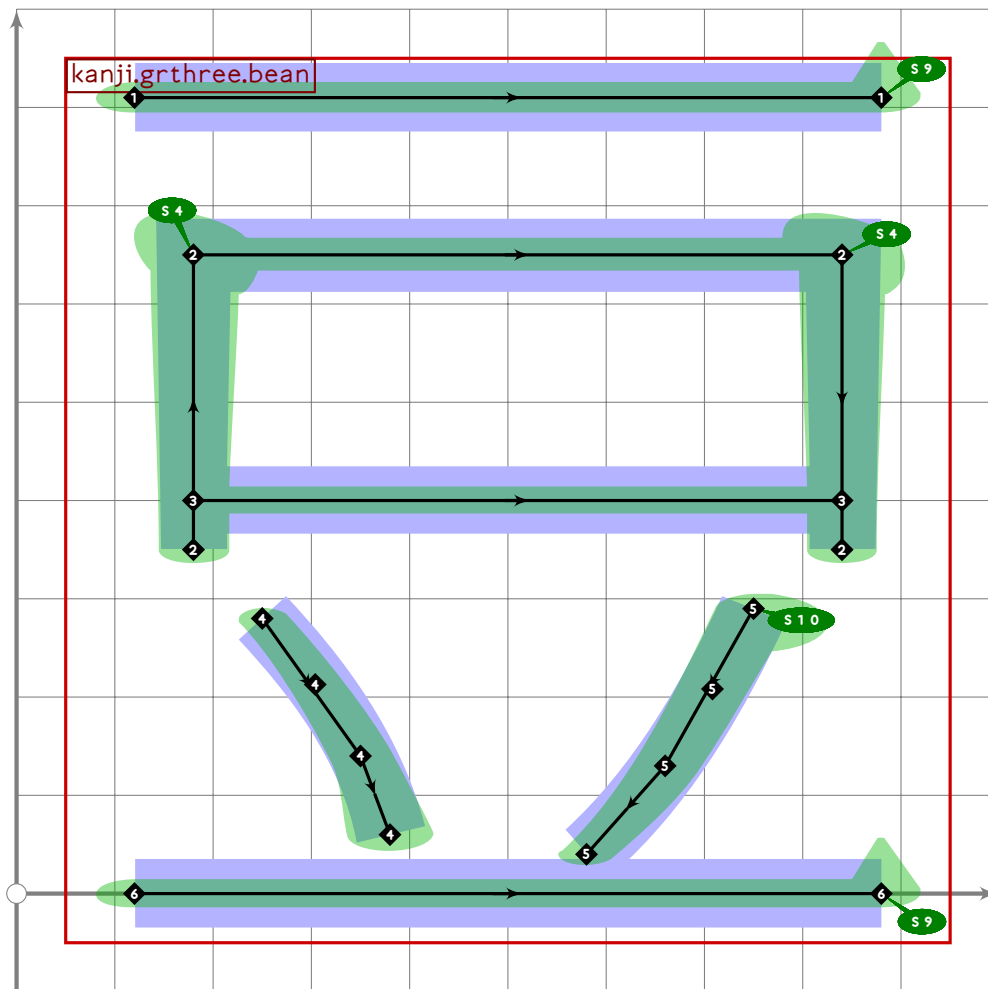
THRE



```

34
35 vardef kanji.grthree.anti =
36   push_pbox_toexpand("kanji.grthree.anti");
37   build_kanji.cliff_enclose
38     (tsu_xform(identity xyscaled (1.09,0.9) shifted (-80,-30))
39       (kanji.greight.otoh));
40   expand_pbox;
41 enddef;

```



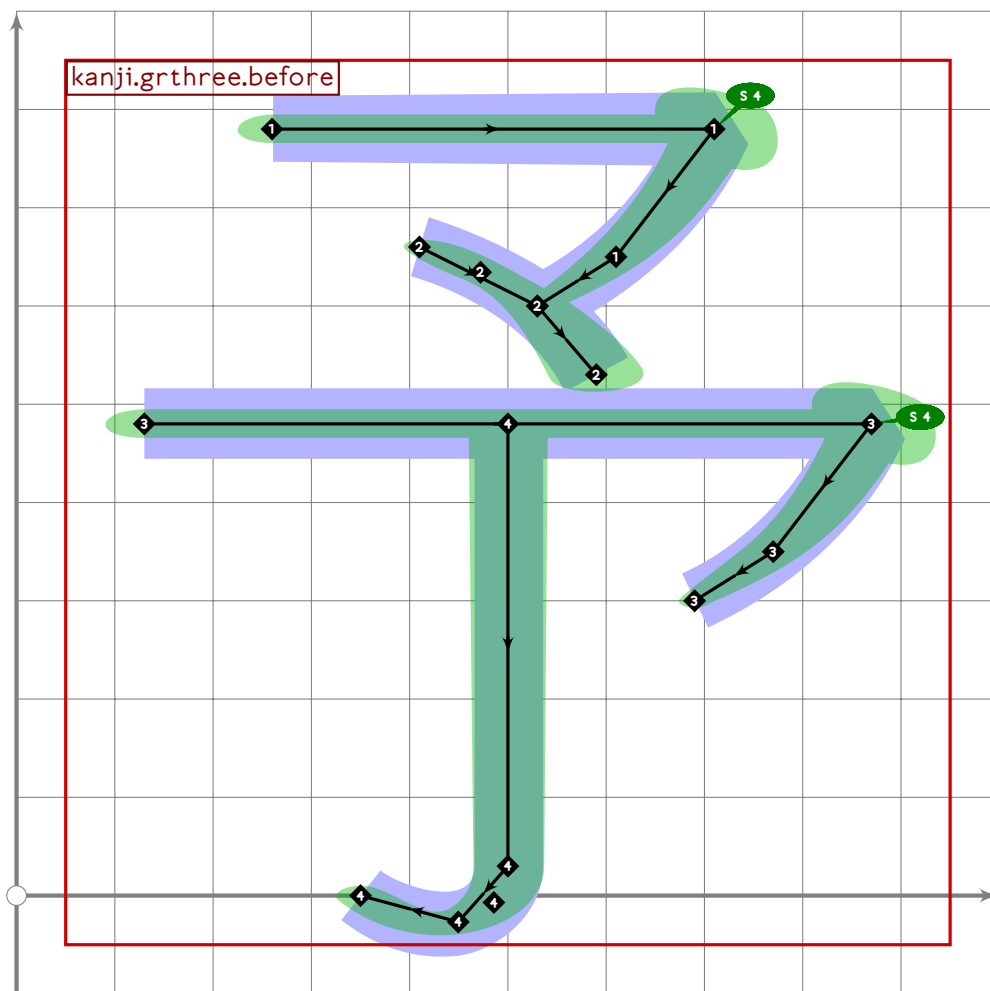
THRE

```

42
43 vardef kanji.grthree.bean =
44   push_pbox_toexpand("kanji.grthree.bean");
45   push_stroke((120,810)-(880,810),
46     (1.6,1.6)-(1.6,1.6));
47   set_boserif(0,1,9);
48   build_kanji.box((180,650),(840,400));
49   push_stroke((250,280)..tension 1.2..(350,140)..(380,60),
50     (1.2,1.2)-(1.4,1.4)-(1.7,1.7));
51   push_stroke((750,290)..tension 1.2..(660,130)..(580,40),
52     (1.6,1.6)-(1.5,1.5)-(1.3,1.3));
53   set_boserif(0,0,10);
54   push_stroke((120,0)-(880,0),
55     (1.6,1.6)-(1.6,1.6));
56   set_boserif(0,1,9);
57   expand_pbox;
58 enddef;

```

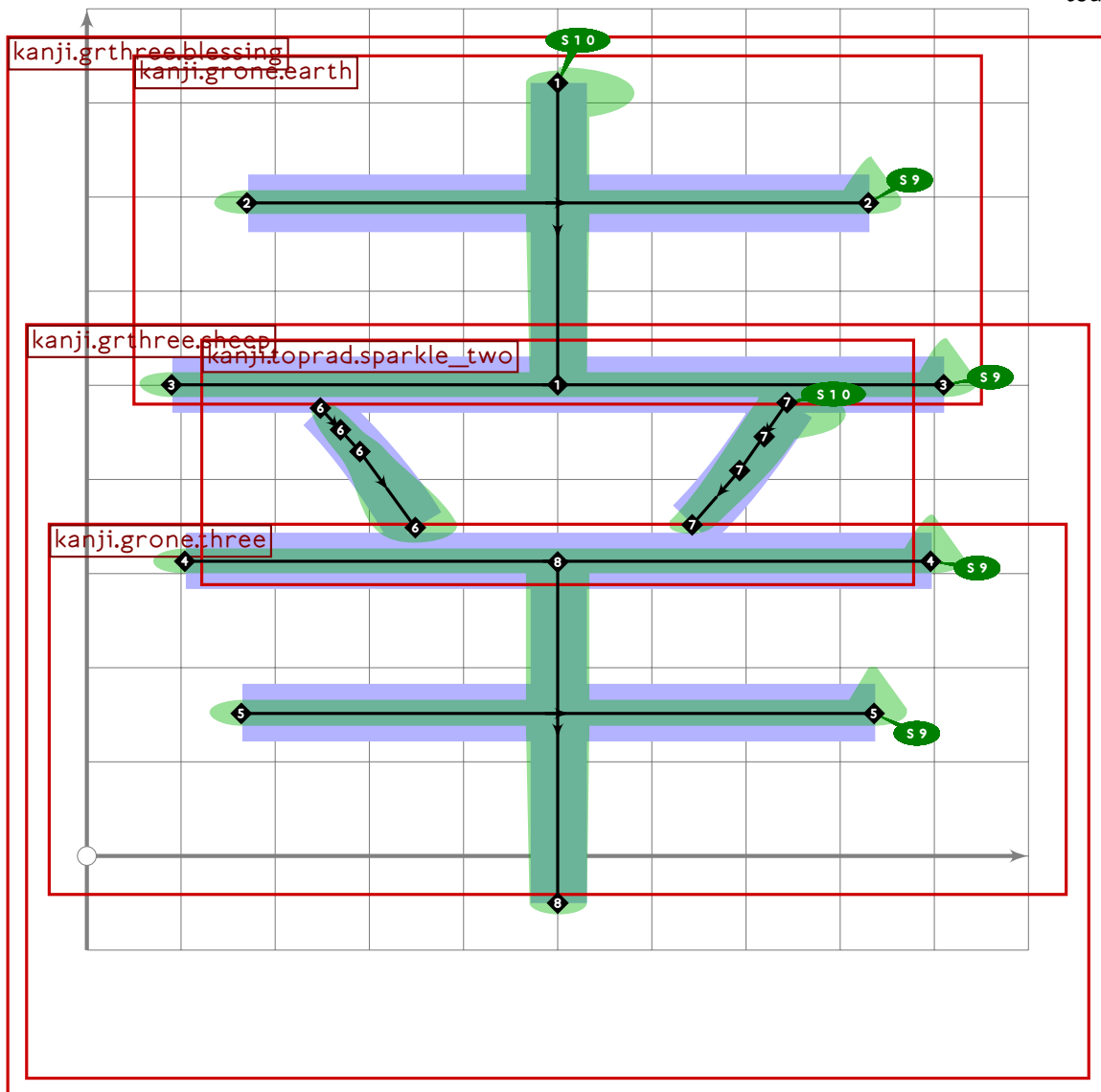
THRE



```

59
60 vardef kanji.grthree.before =
61   push_pbox_toexpand("kanji.grthree.before");
62   push_stroke((260,780)–(710,780)..(610,650)..(530,600),
63     (1,5,1,5)–(1,6,1,6)–(1,4,1,4)–(1,1));
64   set_boserif(0,1,4);
65   set_botip(0,1,0);
66   push_stroke((410,660)..tension 1.2..(530,600)..(590,530),
67     (1,1)–(1,4,1,4)–(1,8,1,8));
68   push_stroke((130,480)–(870,480)..(770,350)..(690,300),
69     (1,6,1,6)–(1,6,1,6)–(1,4,1,4)–(1,1));
70   set_boserif(0,1,4);
71   set_botip(0,1,0);
72   push_stroke((500,480),
73     (1,6,1,6));
74   build_kanji.add_jtail(0);
75   expand_pbox;
76 enddef;

```

THRE

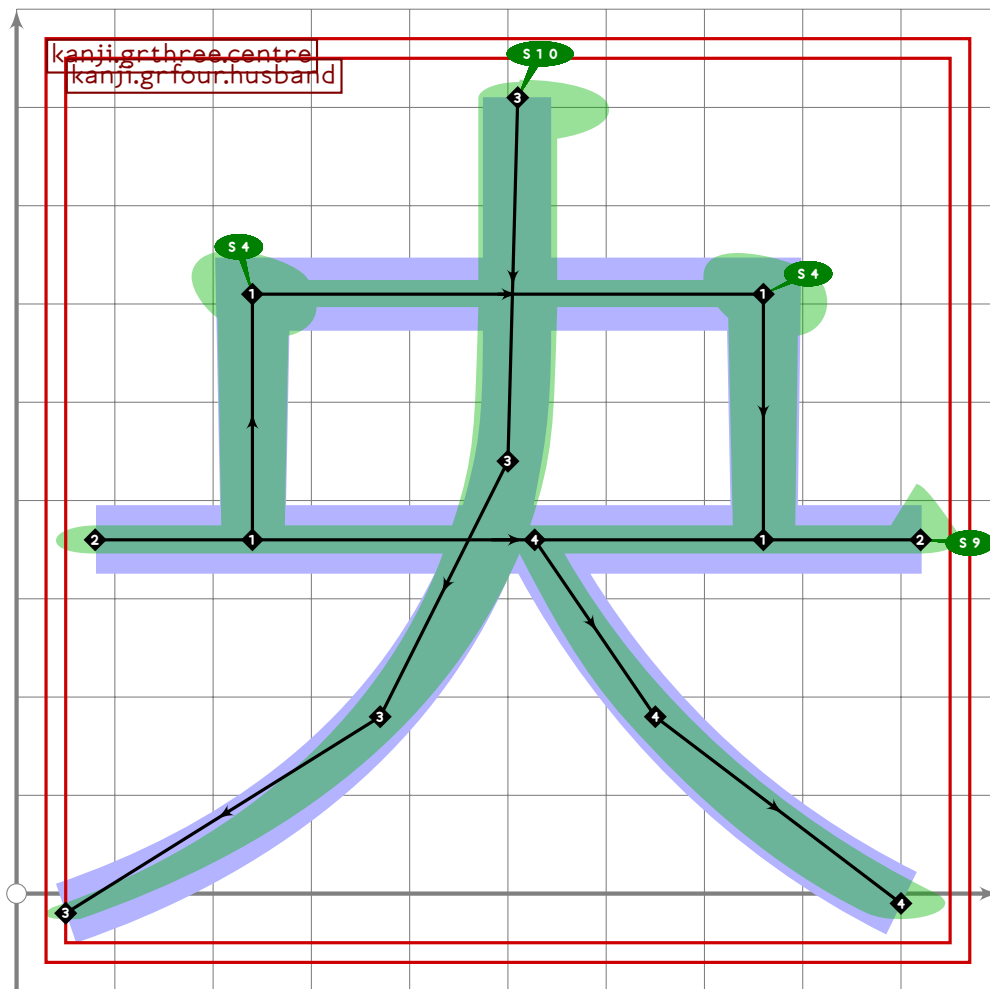
```

77
78 vardef kanji.grthree.blessing =
79   push_pbox_toexpand("kanji.grthree.blessing");
80   build_kanji.level(build_kanji.tb(480,0)
81     (kanji.grone.earth)
82     (build_kanji.sscale(xyscaled (1.2,1.4) shifted (0,-140))
83       (kanji.grthree.sheep);
84     obstacktype[find_stroke(-3)]:=otnull;
85     replace_strokep(0)((point 0 of oldp)-(500,-50))));
86   expand_pbox;
87 enddef;

```

U+592E
tsuku.uni592E

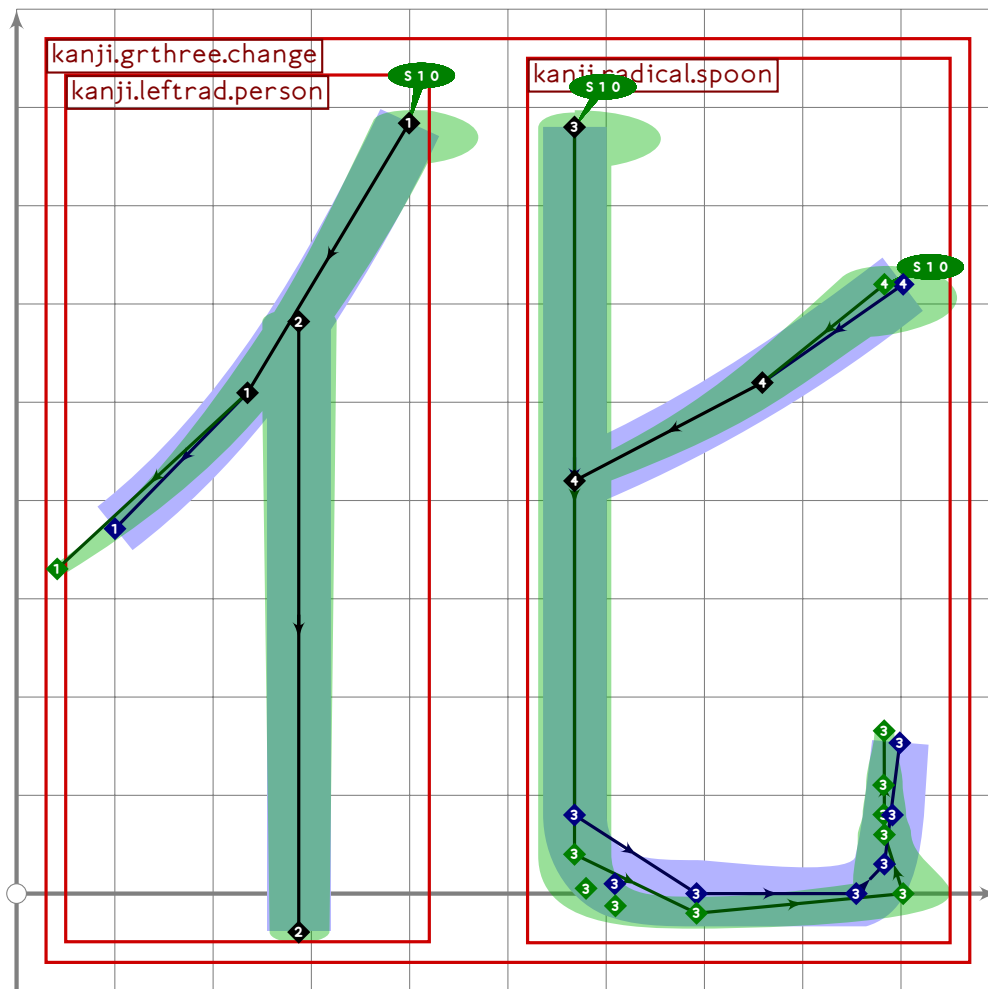
THRE



```

88
89 vardef kanji.grthree.centre =
90   push_pbox_toexpand("kanji.grthree.centre");
91   kanji.grfour.husband;
92   replace_strokep(-3)((240,360)-(240,610)-(760,610)-(760,360));
93   replace_strokeq(-3)((14,14)-(15,15)-(15,15)-(14,14));
94   set_boserif(-3,1,4);
95   set_boserif(-3,2,4);
96   set_botip(-3,1,1);
97   set_botip(-3,2,1);
98   expand_pbox;
99 enddef;

```



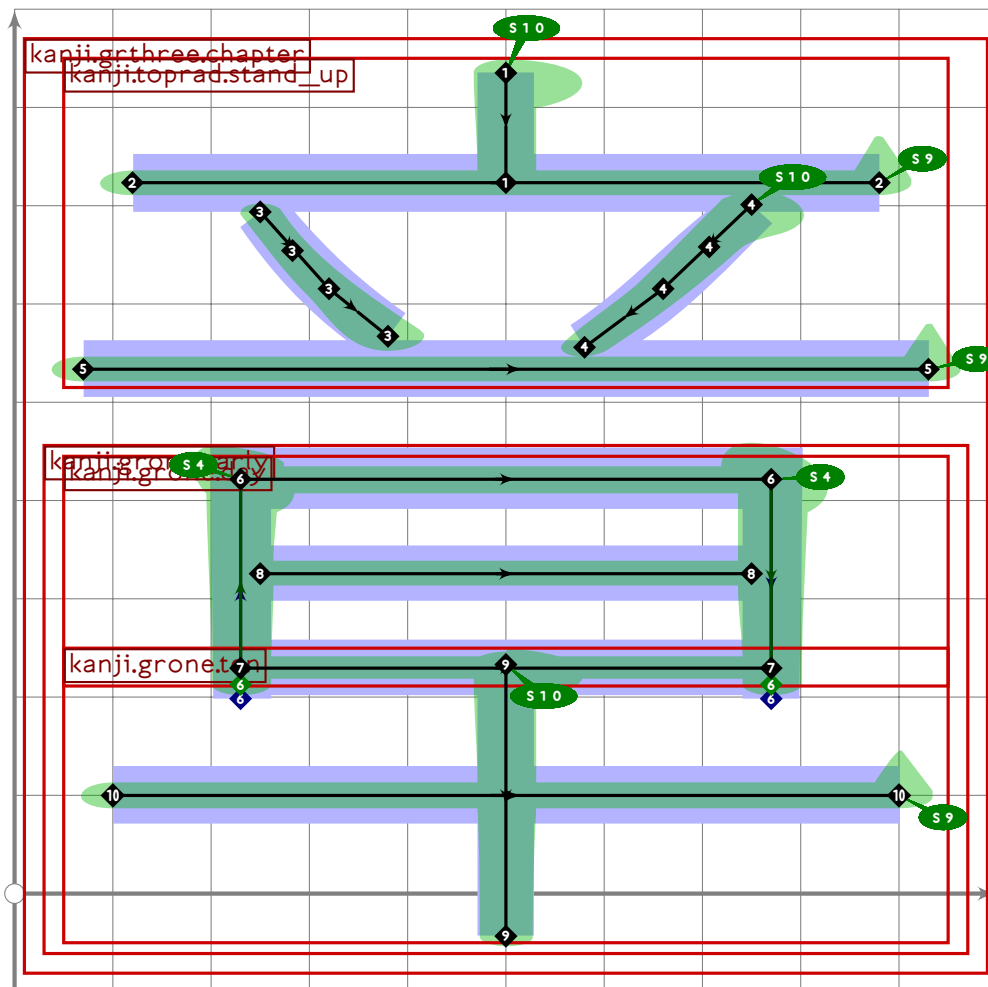
THRE

```

100
101 vardef kanji.grthree.change =
102   push_pbox_toexpand("kanji.grthree.change");
103   build_kanji.level(build_kanji.lr(470,-100)
104     (tsu_xform(identity yscaled 0.98)(kanji.leftrad.person))
105     (kanji.radical.spoon));
106   set_boserif(0,0,10);
107   expand_pbox;
108 enddef;

```

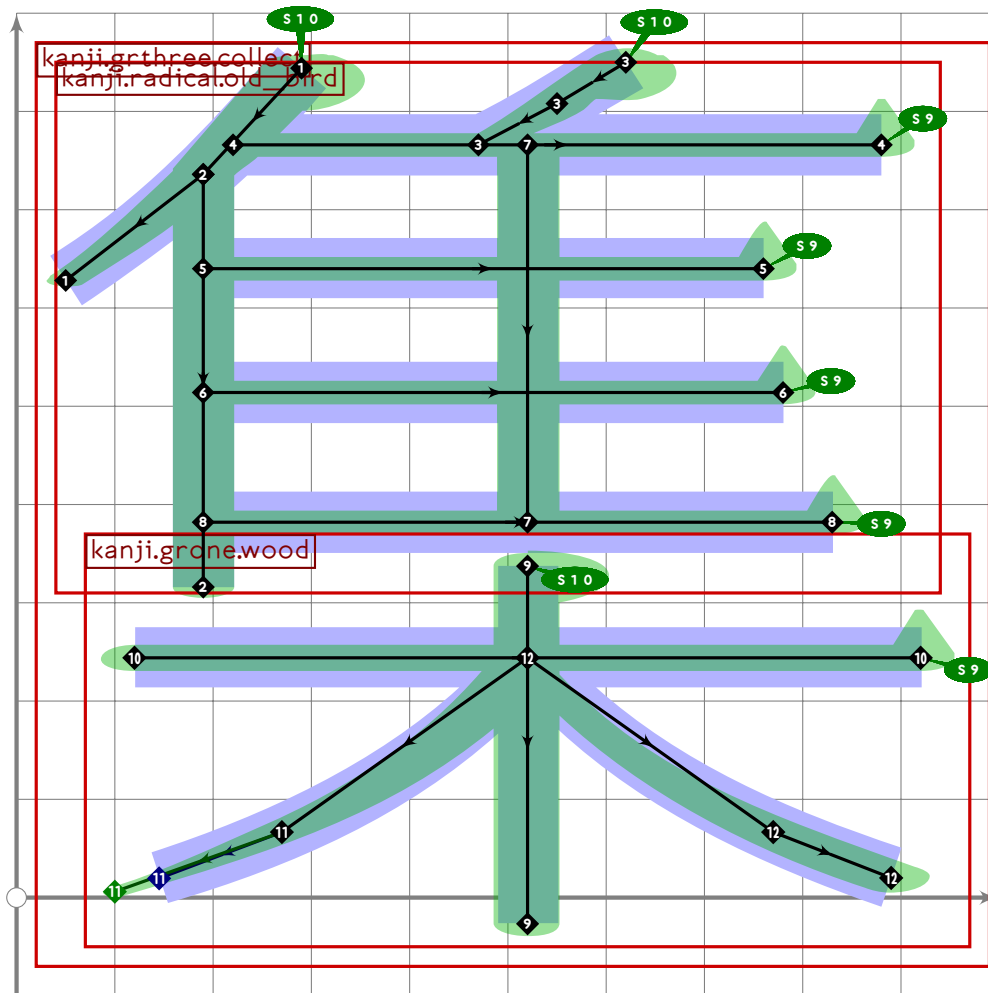
THRE



```

109
110 vardef kanji.grthree.chapter =
111   push_pbox_toexpand("kanji.grthree.chapter");
112   build_kanji.level(build_kanji.tb(480,70)
113     (kanji.toprad.stand_up)
114     (kanji.grone.early));
115   expand_pbox;
116 enddef;

```



THRE

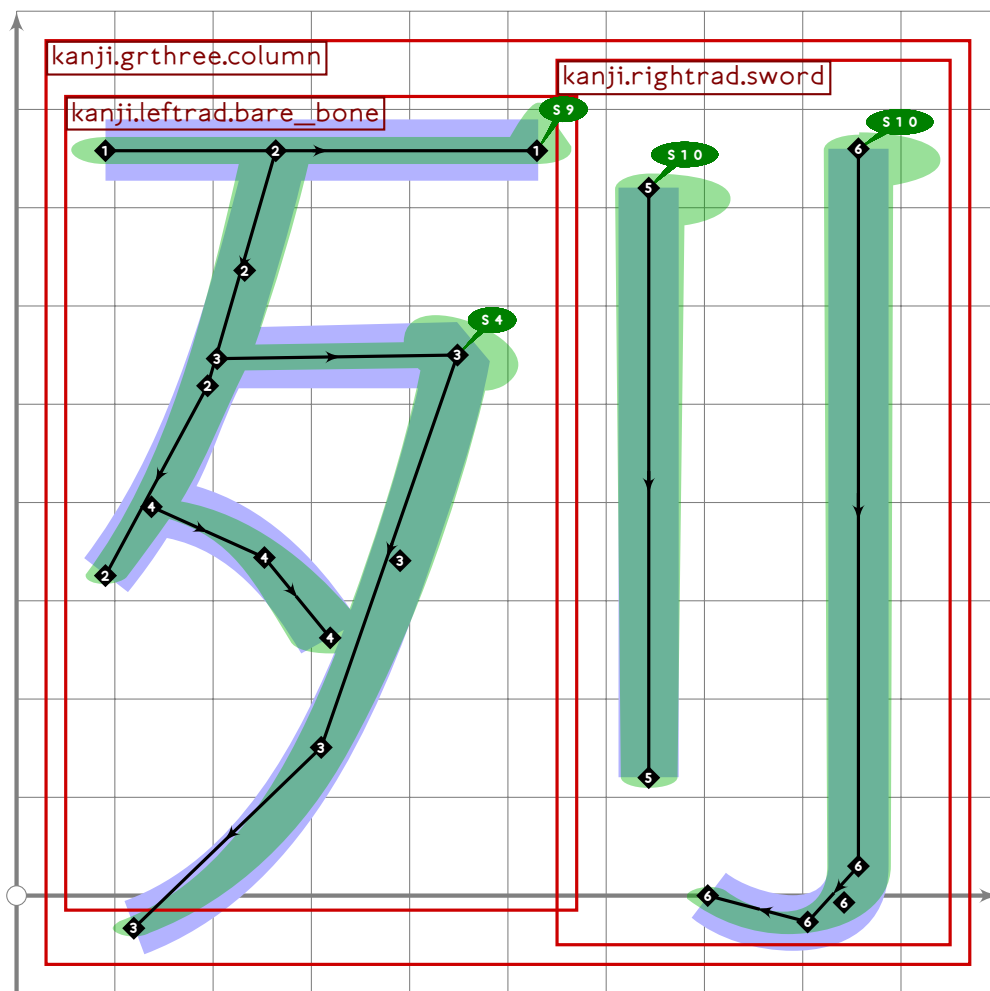
```

117
118 vardef kanji.grthree.collect =
119   push_pbox_toexpand("kanji.grthree.collect");
120   build_kanji.tb(340,60)
121     (build_kanji.sscale(shifted (-10,0))(kanji.radical.old_bird))
122     (build_kanji.sscale(shifted (20,0))(kanji.grone.wood));
123   expand_pbox;
124 enddef;

```

U+5217
tsuku.uni5217

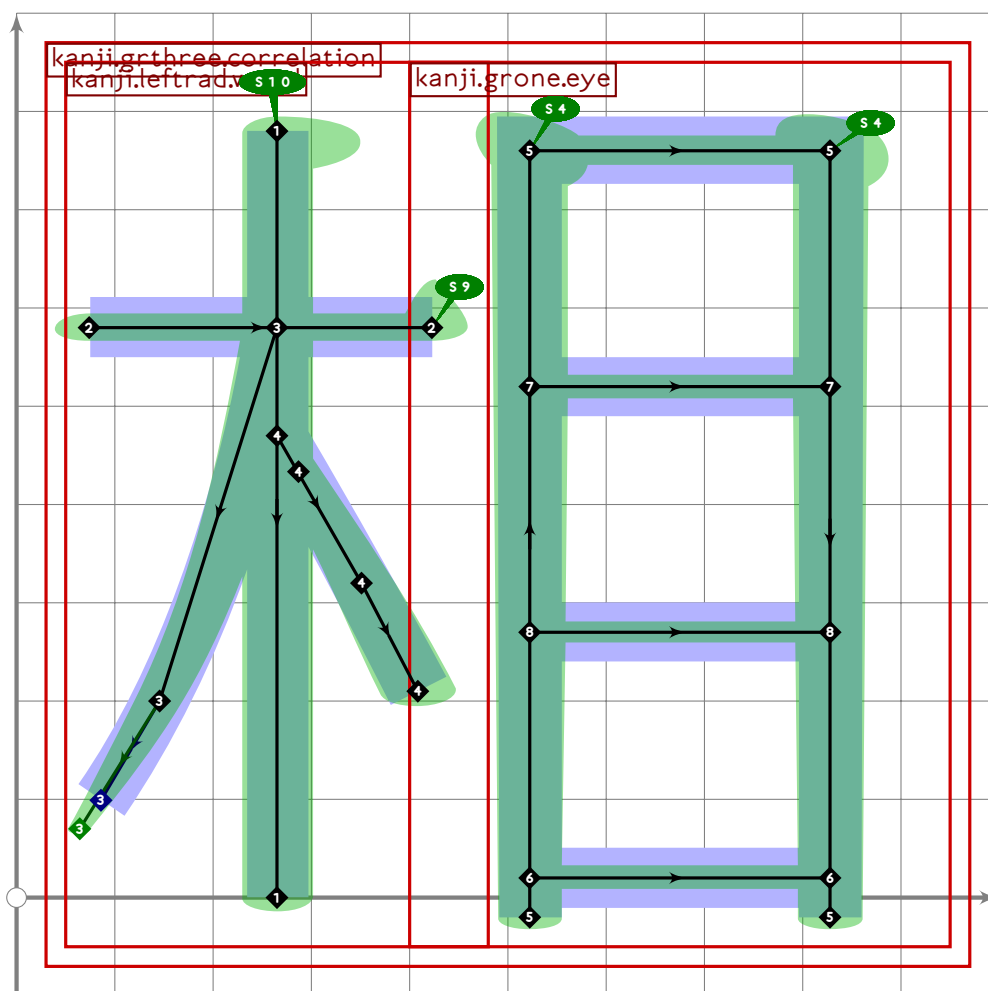
THRE



```

125
126 vardef kanji.grthree.column =
127   push_pbox_toexpand("kanji.grthree.column");
128   build_kanji.level(build_kanji.lr(560,20)
129     (build_kanji.sscale(yscaled 0.92)(kanji.leftrad.bare_bone))
130     (kanji.rightrad.sword));
131   expand_pbox;
132 enddef;

```



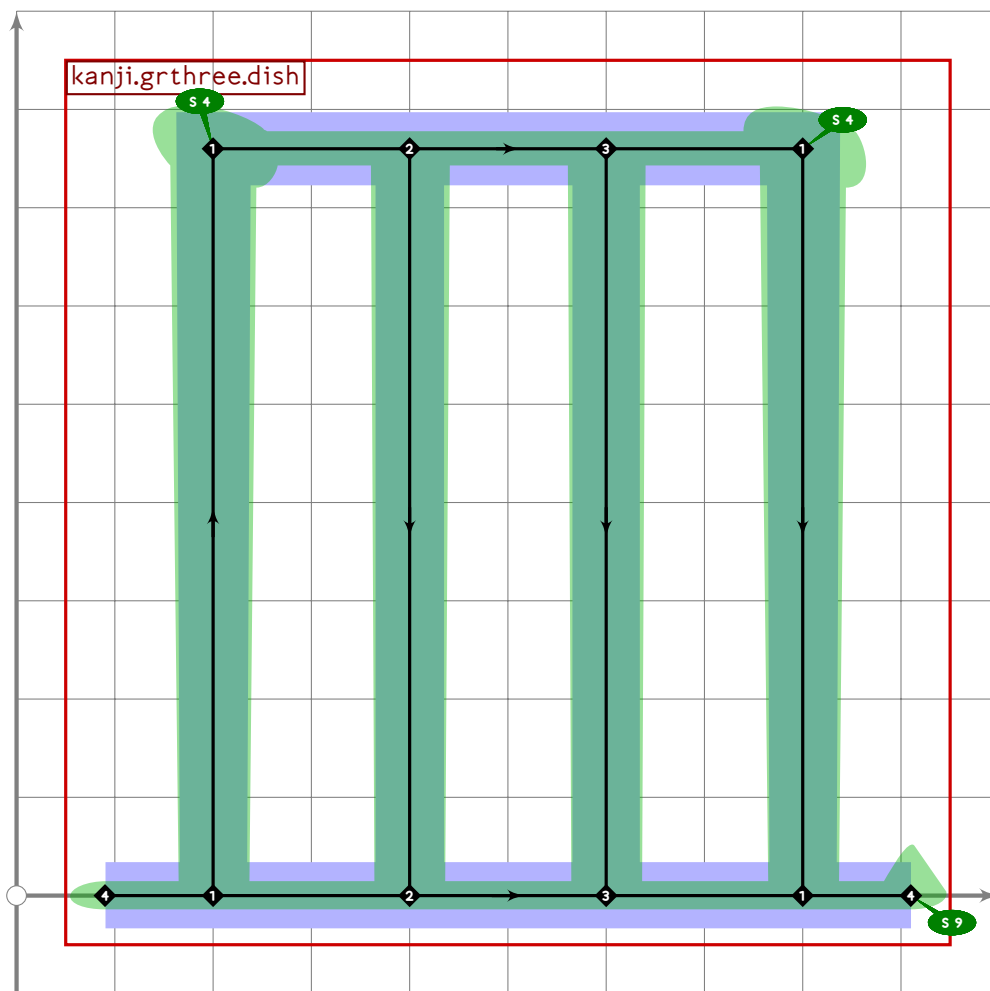
THRE

```

133
134 vardef kanji.grthree.correlation =
135   push_pbox_toexpand("kanji.grthree.correlation");
136   build_kanji.level(build_kanji.lr(440,80)
137     (kanji.leftrad.wood)
138     (kanji.grone.eye));
139   expand_pbox;
140 enddef;

```

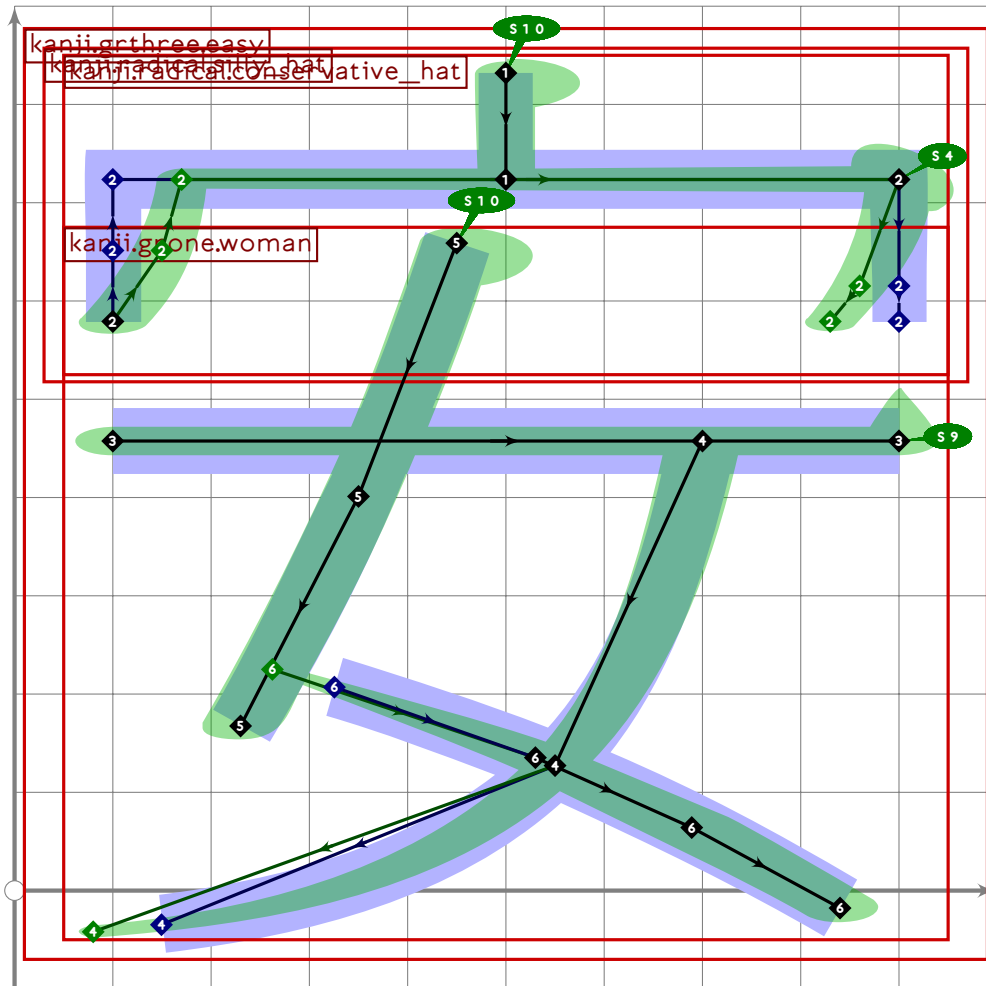
THRE



```

141
142 vardef kanji.grthree.dish =
143   push_pbox_toexpand("kanji.grthree.dish");
144   push_stroke((200,0)–(200,760)–(800,760)–(800,0),
145     (1.5,1.5)–(1.7,1.7)–(1.7,1.7)–(1.5,1.5));
146   set_botip(0,1);
147   set_botip(0,2,1);
148   set_boserif(0,1,4);
149   set_boserif(0,2,4);
150   push_stroke((400,760)–(400,0),(1.6,1.6)–(1.5,1.5));
151   push_stroke((600,760)–(600,0),(1.6,1.6)–(1.5,1.5));
152   push_stroke((90,0)–(910,0),(1.5,1.5)–(1.5,1.5));
153   set_boserif(0,1,9);
154   expand_pbox;
155 enddef;

```

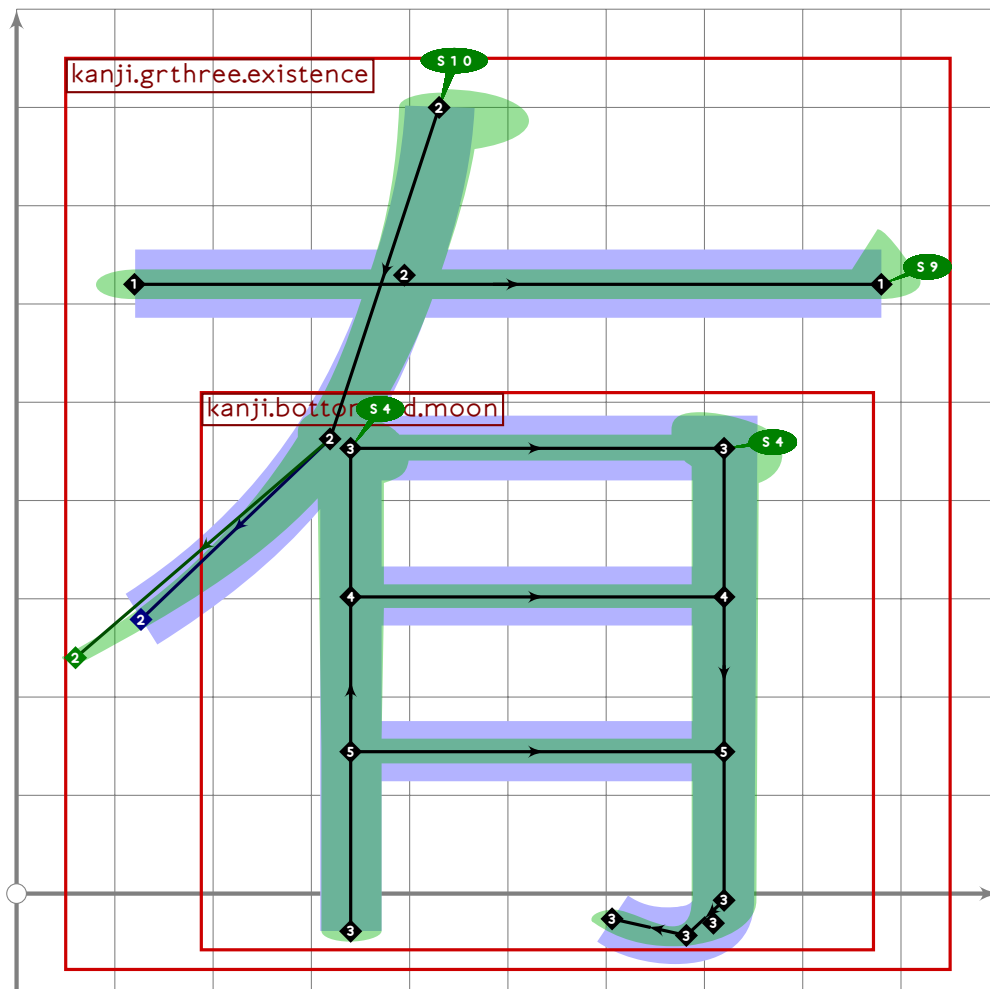
THRE

```

156
157 vardef kanji.grthree.easy =
158   push_pbox_toexpand("kanji.grthree.easy");
159   build_kanji.tb(600,150)
160     (kanji.radical.silly_hat)
161     (kanji.grone.woman);
162   expand_pbox;
163 enddef;

```

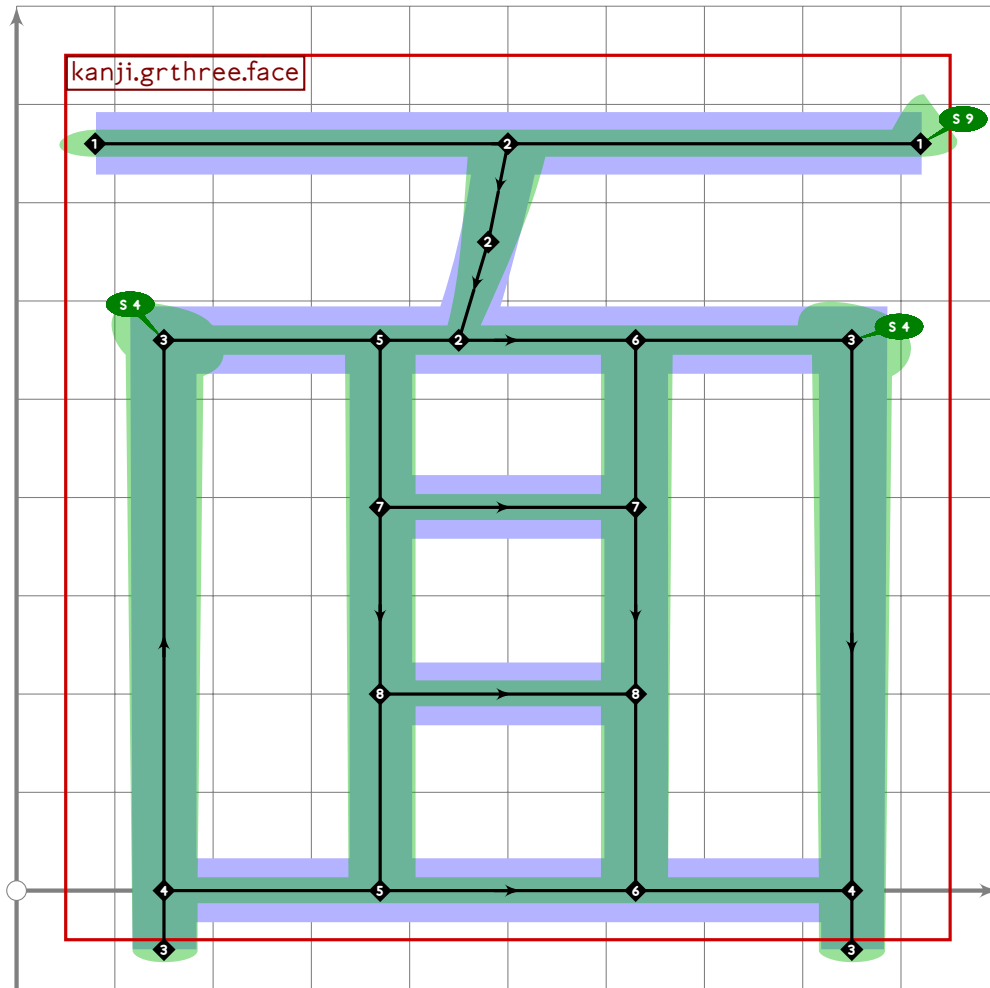
THRE



```

164
165 vardef kanji.grthree.existence =
166   push_pbox_toexpand("kanji.grthree.existence");
167   build_kanji.lean_to((430,240));
168   build_kanji.sscale(xyscaled (0.76,0.63) shifted (30,-170))
169     (kanji.bottomrad.moon);
170   expand_pbox;
171 enddef;

```



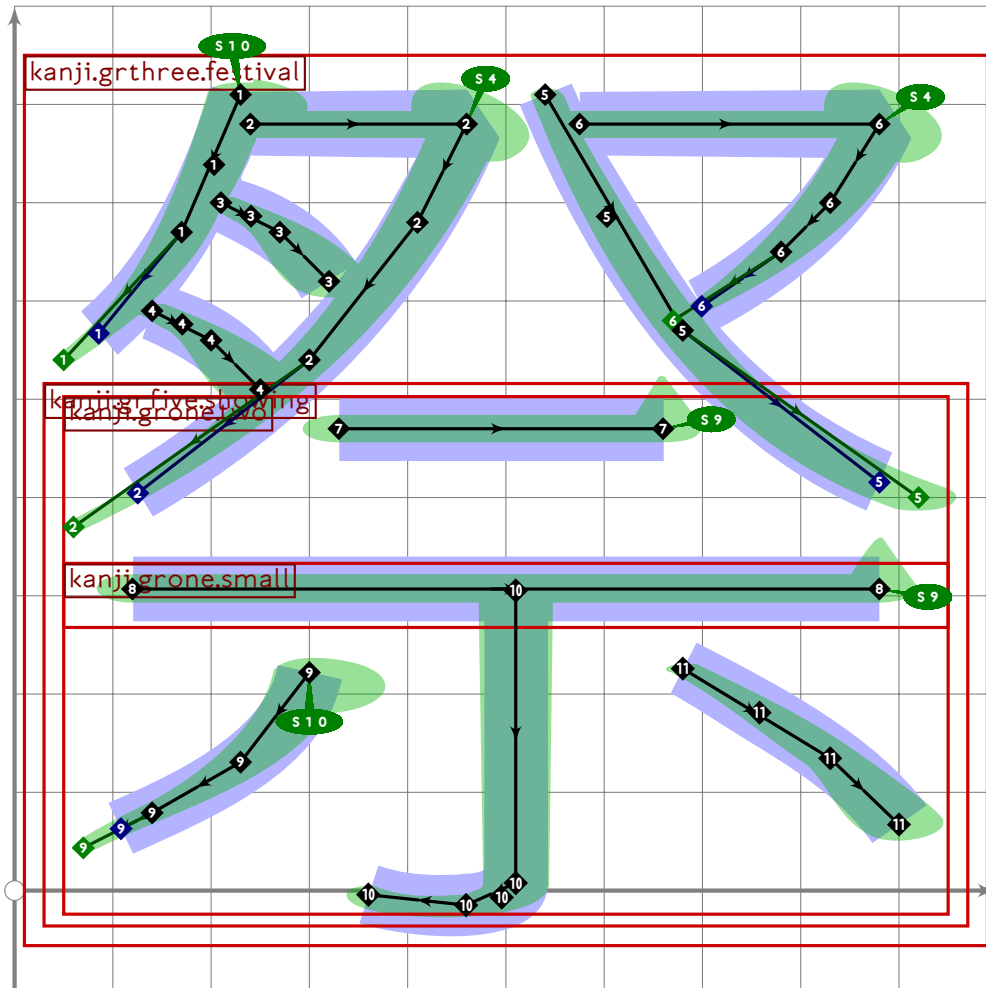
THRE

```

172
173 vardef kanji.grthree.face =
174   push_pbox_toexpand("kanji.grthree.face");
175   push_stroke((80,760)-(920,760),
176     (1,6,1,6)-(1,6,1,6));
177   set_boserif(0,1,9);
178   push_stroke((500,760)..(480,660)..(450,560),
179     (1,7,1,7)-(1,3,1,3)-(1,1));
180   build_kanji.box((150,560),(850,0));
181   push_stroke((370,560)-(370,0),(1,6,1,6)-(1,5,1,5));
182   push_stroke((630,560)-(630,0),(1,6,1,6)-(1,5,1,5));
183   push_stroke((370,390)-(630,390),(1,5,1,5)-(1,5,1,5));
184   push_stroke((370,200)-(630,200),(1,5,1,5)-(1,5,1,5));
185   for i=-7 upto 0: set_bosize(i,92); endfor;
186   expand_pbox;
187 enddef;

```

THRE



```

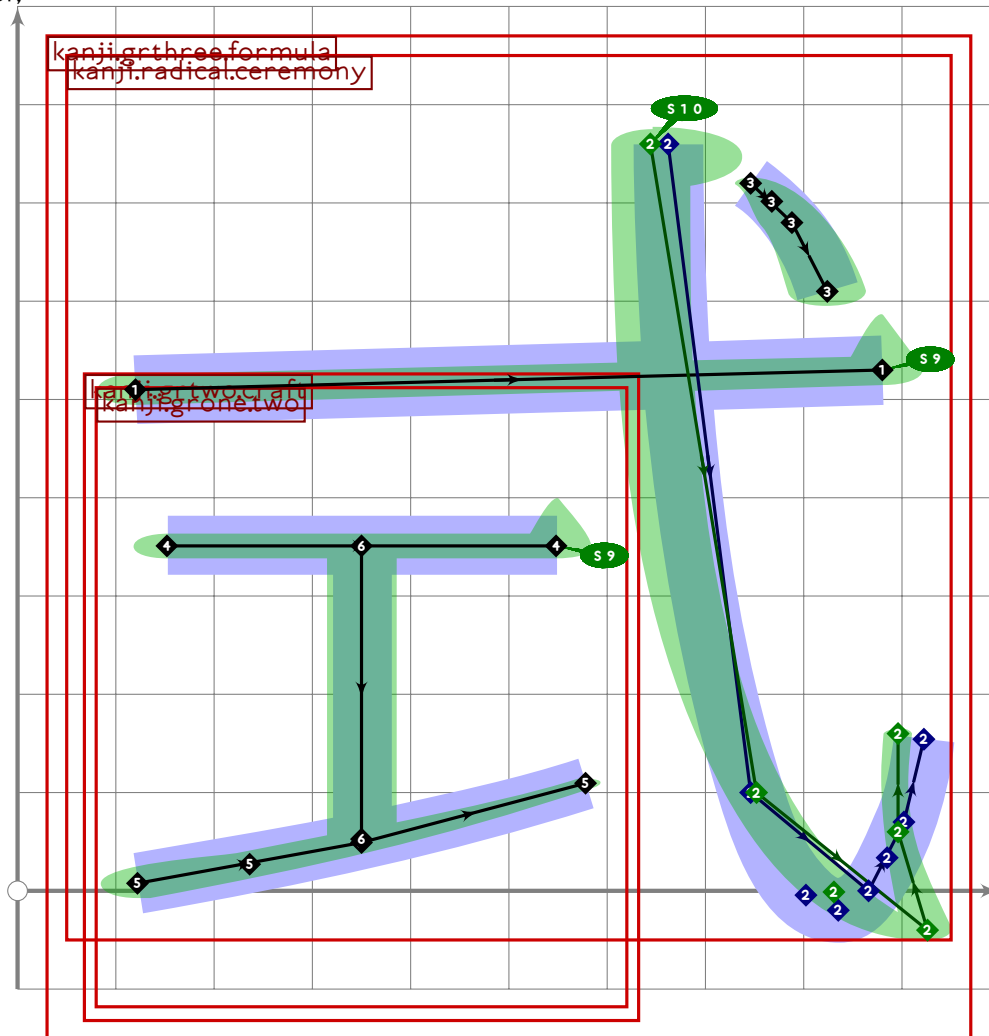
188
189 vardef kanji.grthree.festival =
190   push_pbox_toexpand("kanji.grthree.festival");
191   build_kanji.level(
192     push_stroke((230,810)..tension 1.2..(170,670)..(50,540),
193       (1.5,1.5)–(1.3,1.3)–(0.85,0.9));
194     set_boserif(0,0,10);
195     push_stroke((240,780)–(460,780)..(410,680)..(300,540)..(60,370),
196       (1.5,1.5)–(1.6,1.6)–(1.5,1.5)–(1.3,1.3)–(0.85,0.9));
197     set_boserif(0,1,4);
198     set_botip(0,1,0);
199     push_stroke((210,700)..tension 1.2..(270,670)..(320,620),
200       (1,1)–(1.4,1.4)–(1.7,1.7));
201     push_stroke((140,590)..tension 1.2..(200,560)..(250,510),
202       (1,1)–(1.4,1.4)–(1.7,1.7));
203     push_stroke((540,810)..tension 1.2..(680,570)..(920,400),
204       (1,1)–(1.3,1.3)–(2.25,0.95));
205     push_stroke((575,780)–(880,780)..(830,700)..(780,650)..(670,580),
206       (1.5,1.5)–(1.6,1.6)–(1.5,1.5)–(1.3,1.3)–(0.85,0.9));
207     set_boserif(0,1,4);
208     set_botip(0,1,0);

```

```

209 push_stroke((330,470)-(660,470),(1.6,1.6)-(1.6,1.6));
210 set_bosertif(0,19);
211 build_kanji.sscaled(yscaled 0.6 shifted (0,-150))(kanji.grfive.showing);
212 obstacktype[find_whatever(otstroke,-4)]:=otnull;
213 );
214 expand_pbox;
215 enddef;

```



THRE

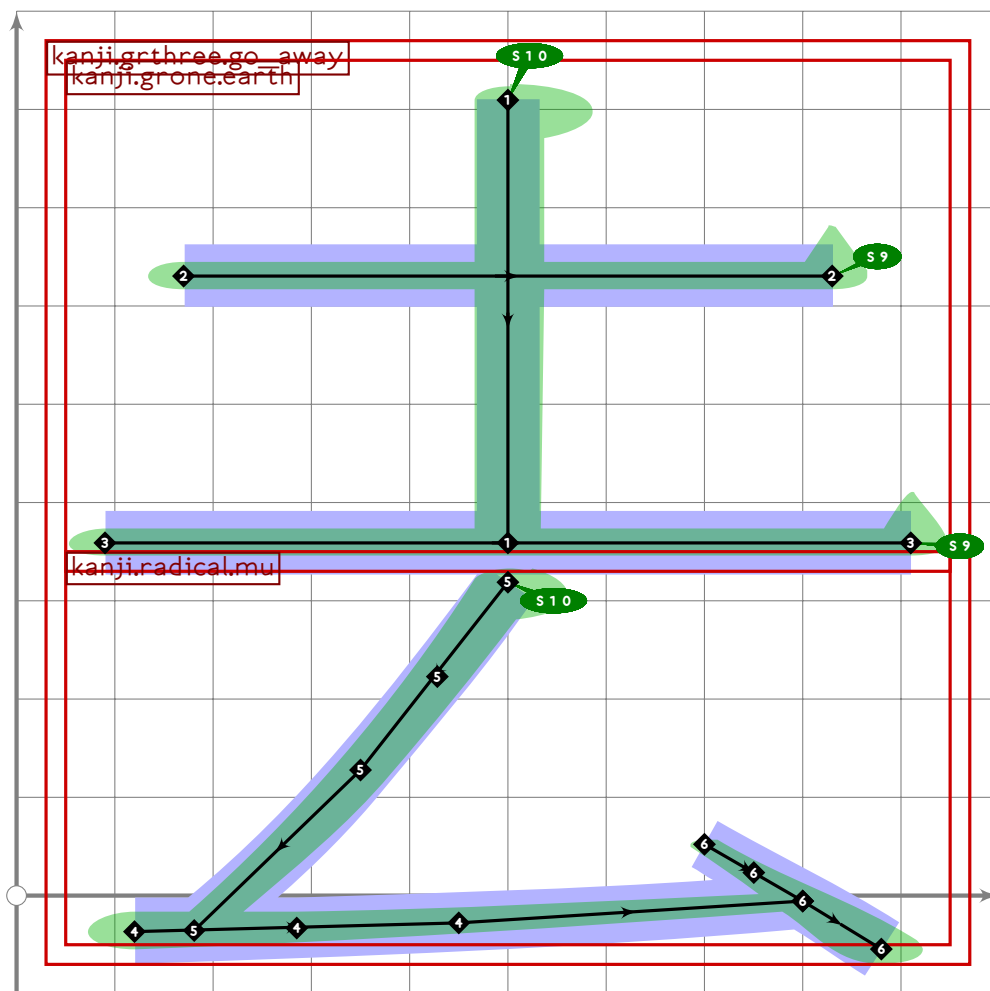
```

216
217 vardef kanji.grthree.formula =
218   push_pbox_toexpand("kanji.grthree.formula");
219   kanji.radical.ceremony;
220   replace_stroke(-1)(oldp shifted (-950,0) xscaled 0.6 shifted (950,0));
221   replace_stroke(0)(oldp shifted (-950,0) xscaled 0.6 shifted (950,0));
222   build_kanji.sscaled(xyscaled (0.6,0.7) shifted (-150,-200))
223     (build_kanji.lift_skirt(400,250)(kanji.grtwo.craft));
224   expand_pbox;
225 enddef;

```

U+53BB
tsuku.uni53BB

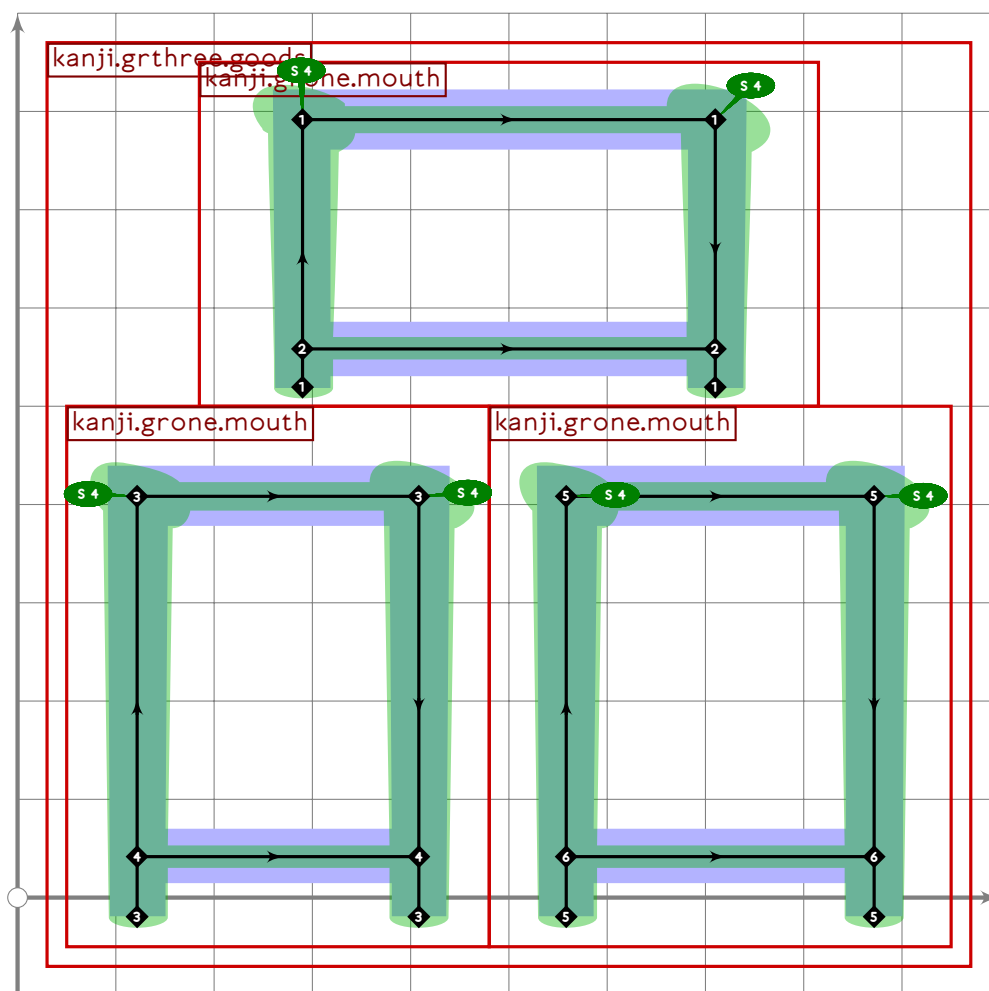
THRE



```

226
227 vardef kanji.grthree.go_away =
228   push_pbox_toexpand("kanji.grthree.go_away");
229   build_kanji.tb(340,20)
230     (kanji.grone.earth)
231     (kanji.radical.mu);
232   expand_pbox;
233 enddef;

```



THRE

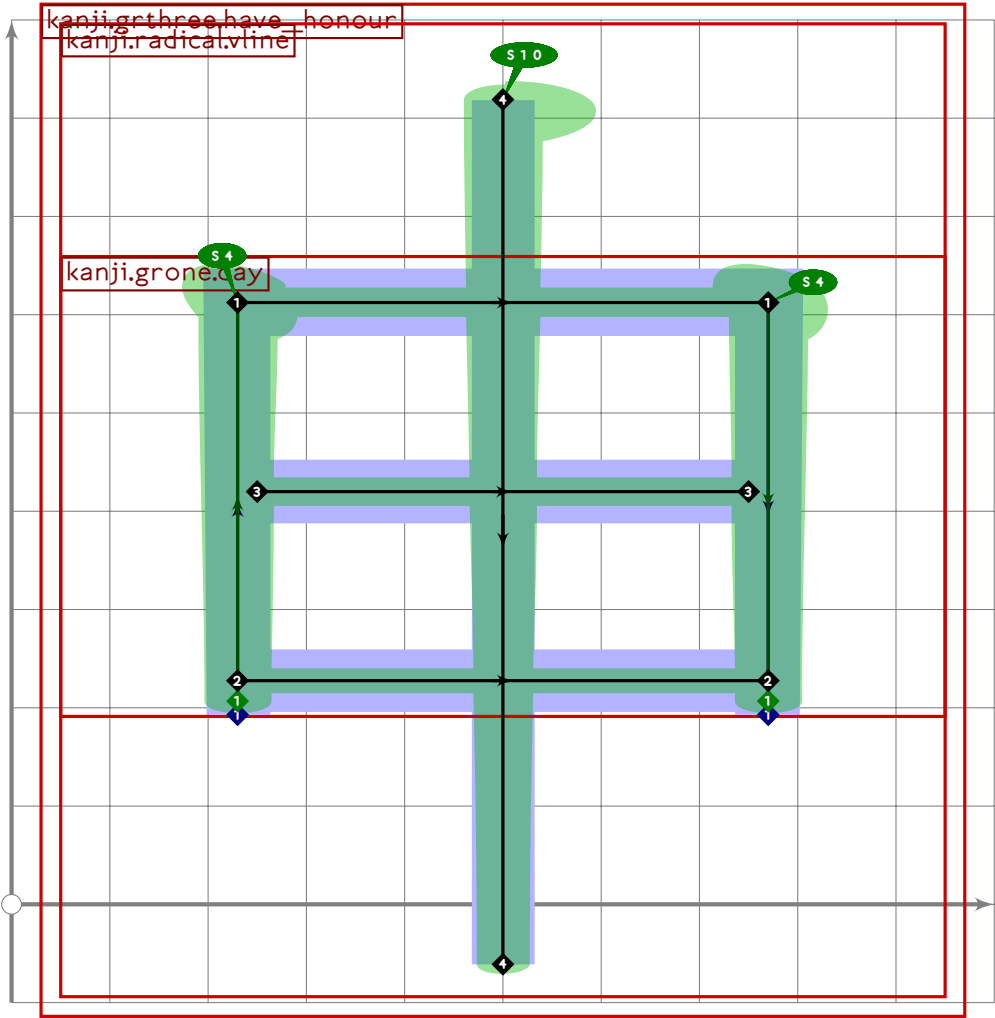
```

234
235 vardef kanji.grthree.goods =
236   push_pbox_toexpand("kanji.grthree.goods");
237   build_kanji.level(build_kanji.tricluster(0.7)
238     (kanji.grone.mouth)
239     (kanji.grone.mouth)
240     (kanji.grone.mouth));
241   expand_pbox;
242 enddef;

```

U+7533
tsuku.uni7533

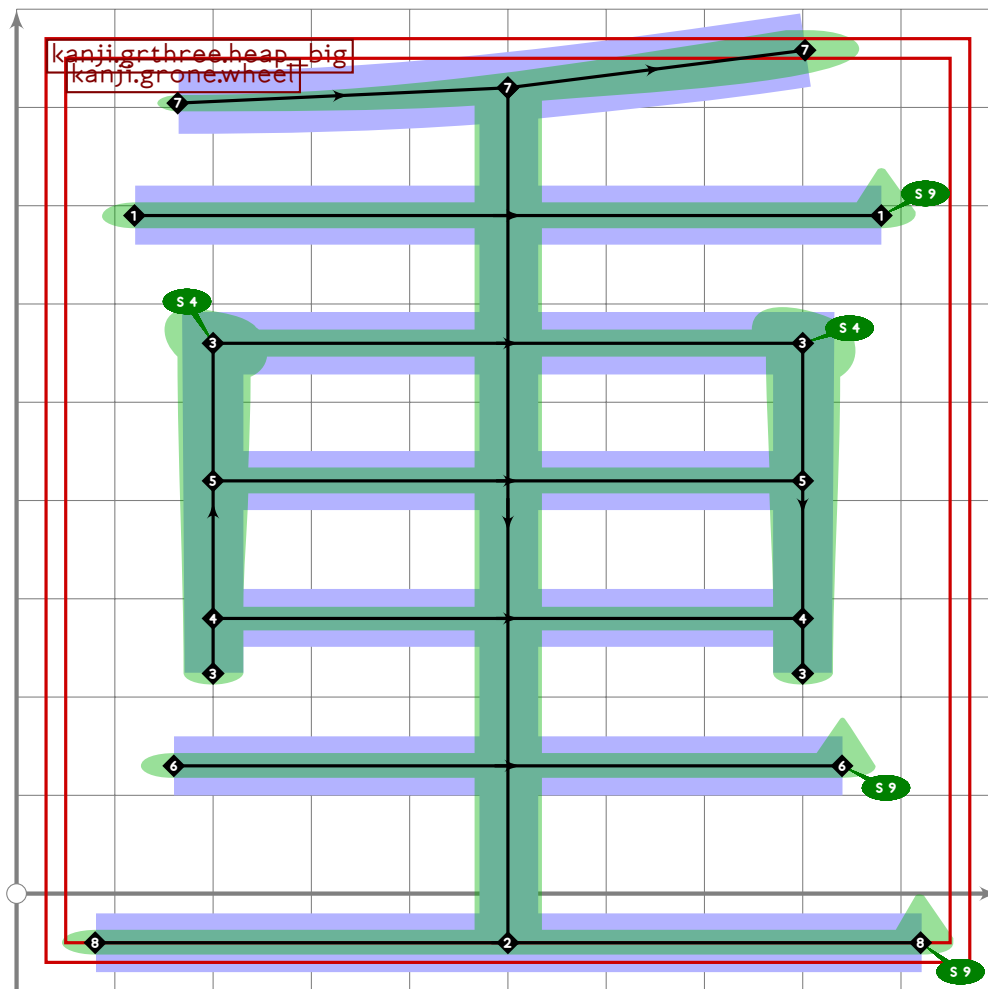
THRE



```

243
244 vardef kanji.grthree.have_honour =
245   push_pbox_toexpand("kanji.grthree.have_honour");
246   build_kanji.level(
247     build_kanji.sscale(yscaled 0.52 shifted (0,30))(kanji.grone.day);
248     build_kanji.sscale(yscaled 1.1)(kanji.radical.vline));
249   expand_pbox;
250 enddef;

```

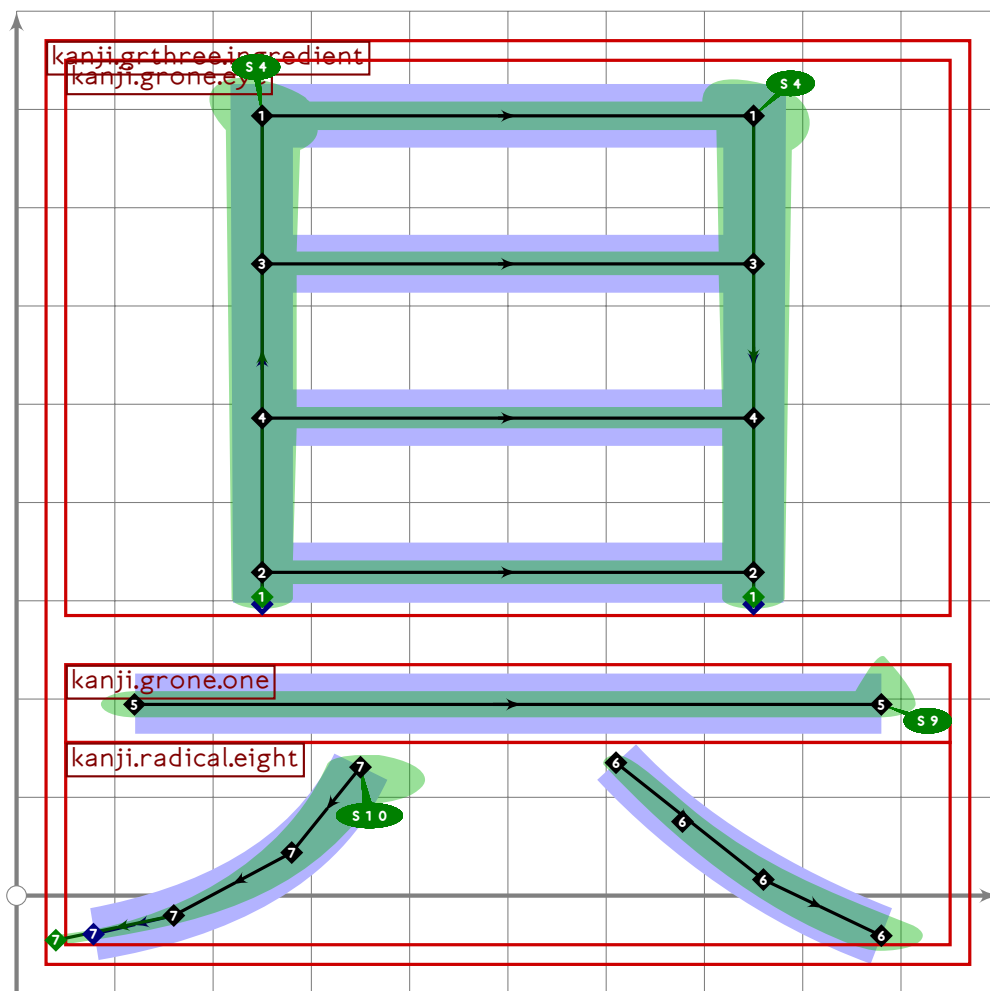



THRE

```

251
252 vardef kanji.grthree.heap_big =
253   push_pbox_toexpand("kanji.grthree.heap_big");
254   build_kanji.add_beret(kanji.grone.wheel);
255   push_stroke(get_stroke(-1),(1.6,1.6)-(1.6,1.6));
256   replace_stroke(0)(oldp shifted (0,-50-ypart llcorner oldp));
257   replace_stroke(-2)
258     ((160,ypart point 0 of oldp)-(840,ypart point 1 of oldp));
259   set_boserif(0,1,9);
260   set_bosize(0,get_bosize(-2));
261   expand_pbox;
262 enddef;

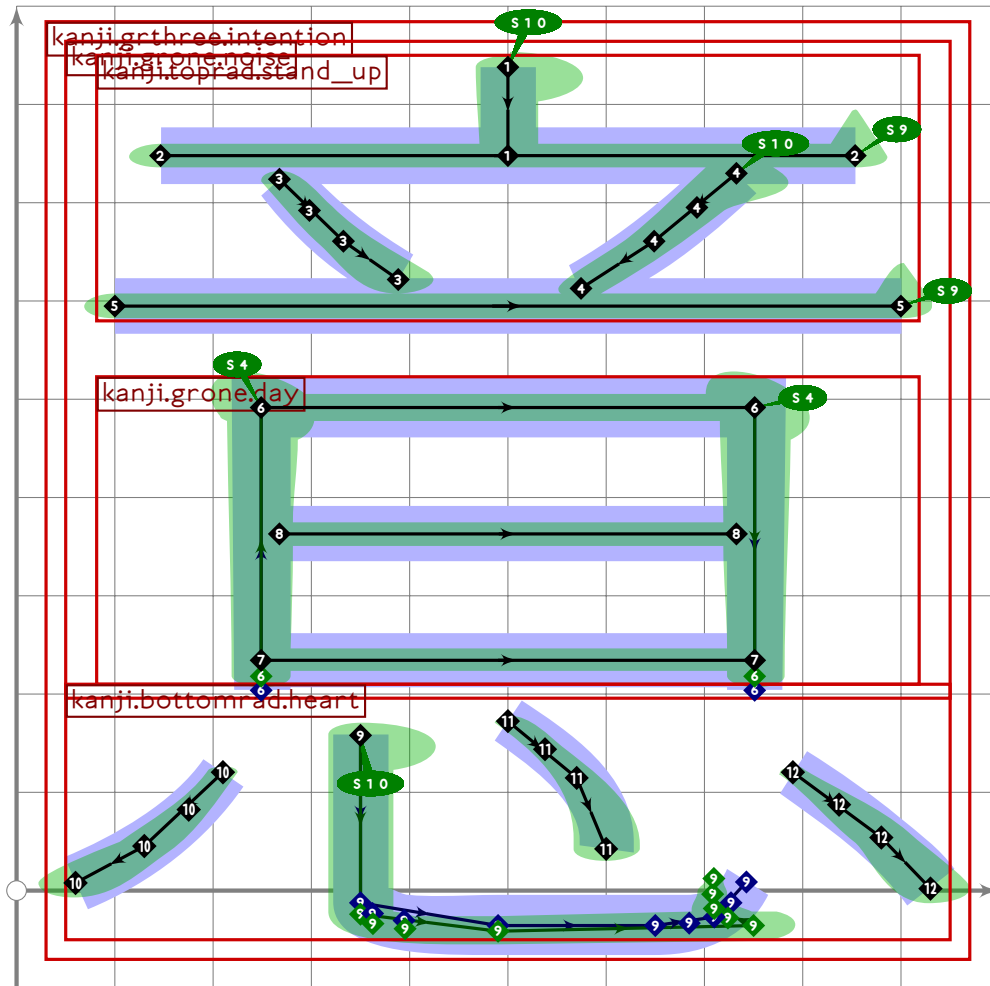
```



```

263
264 vardef kanji.grthree.ingredient =
265   push_pbox_toexpand("kanji.grthree.ingredient");
266   build_kanji.level(build_kanji.tb(260;50)
267     (kanji.grone.ey)
268     (build_kanji.tb(600,0)
269       (kanji.grone.one)
270       (kanji.radical.eight)));
271   expand_pbox;
272 enddef;

```



THRE

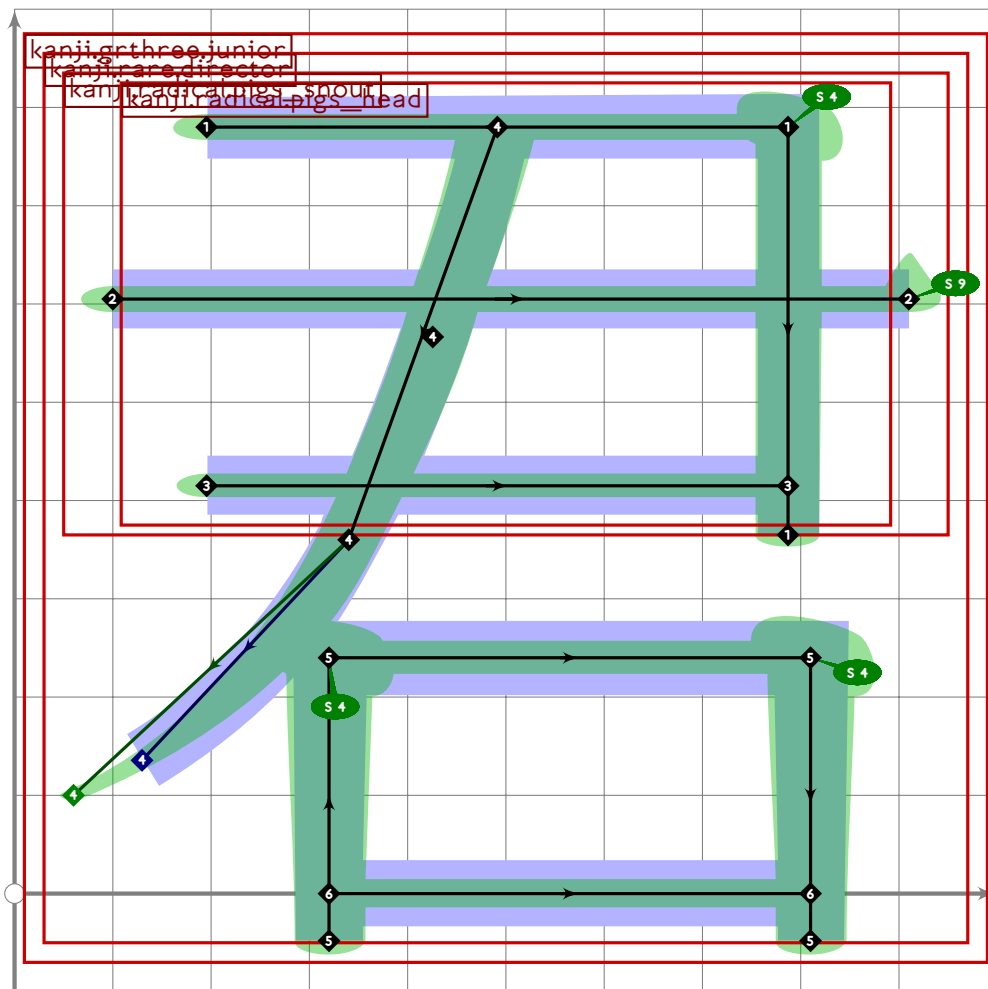
```

273
274 vardef kanji.grthree.intention =
275   push_pbox_toexpand("kanji.grthree.intention");
276   build_kanji.level(build_kanji.tb(210,0)
277     (kanji.grone.noise)
278     (kanji.bottomrad.heart));
279   expand_pbox;
280 enddef;

```

U+541B
tsuku.uni541B

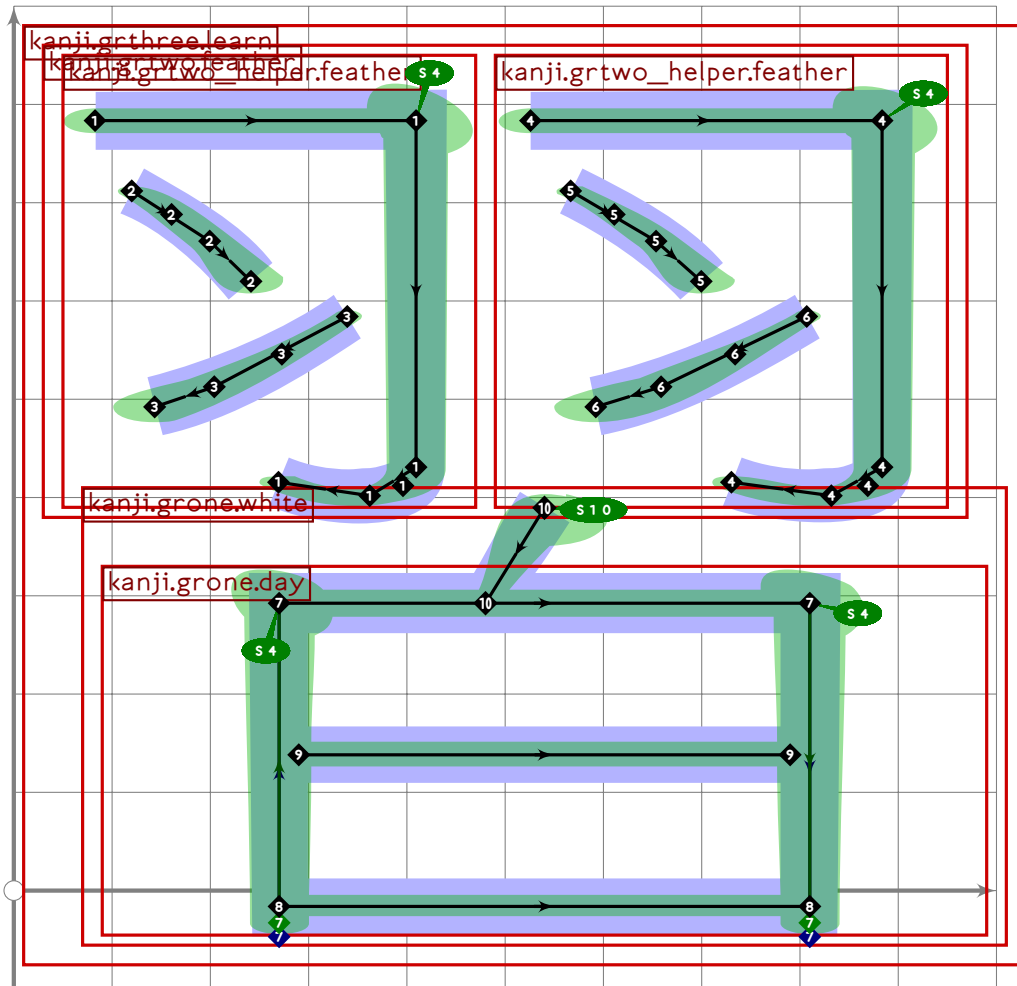
THRE



```

281
282 vardef kanji.grthree.junior =
283   push_pbox_toexpand("kanji.grthree.junior");
284   kanji.rare.director;
285   build_kanji.box((320,240),(810,0));
286   expand_pbox;
287 enddef;

```



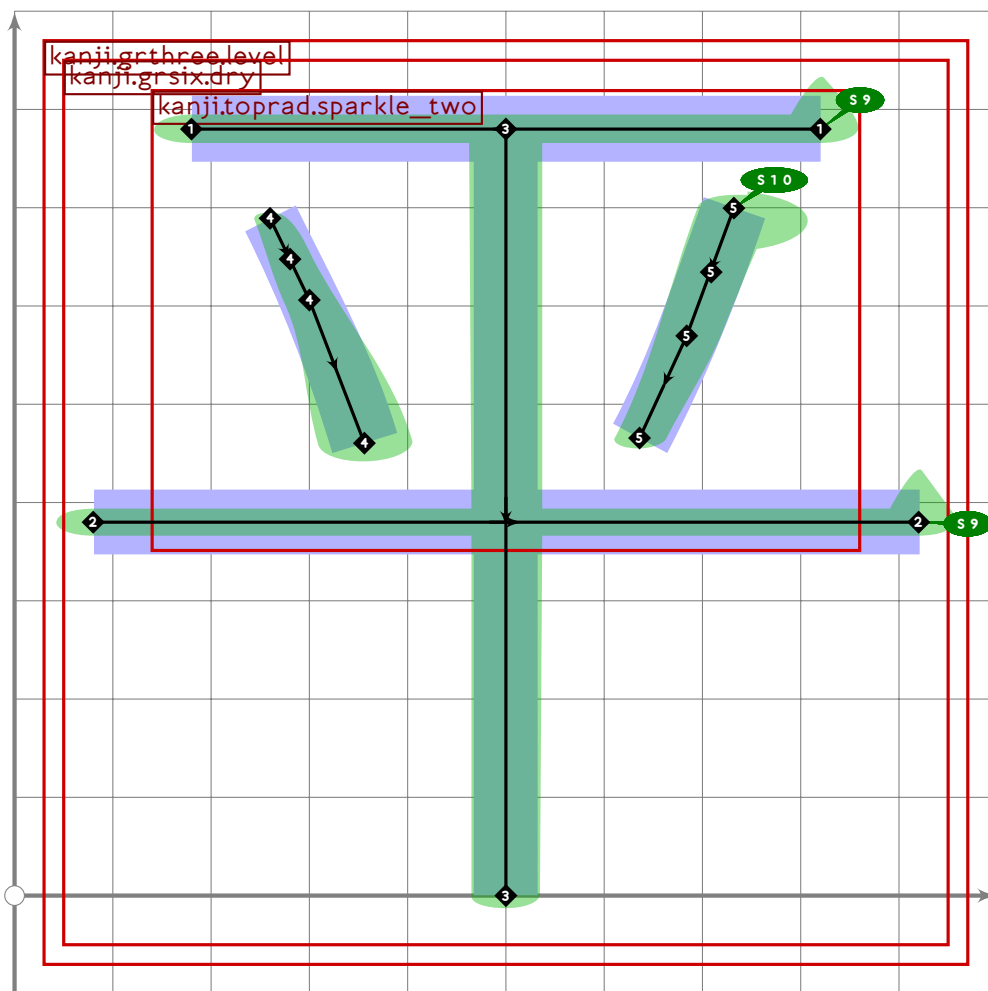
```

288
289 vardef kanji.grthree.learn =
290   push_pbox_toexpand("kanji.grthree.learn");
291   build_kanji.level(build_kanji.tb(400,20)
292     (kanji.grtwo.feather)
293     (tsu_xform(identity shifted (40,0))(kanji.grone.white)));
294   expand_pbox;
295 enddef;

```

U+5E73
tsuku.uni5E73

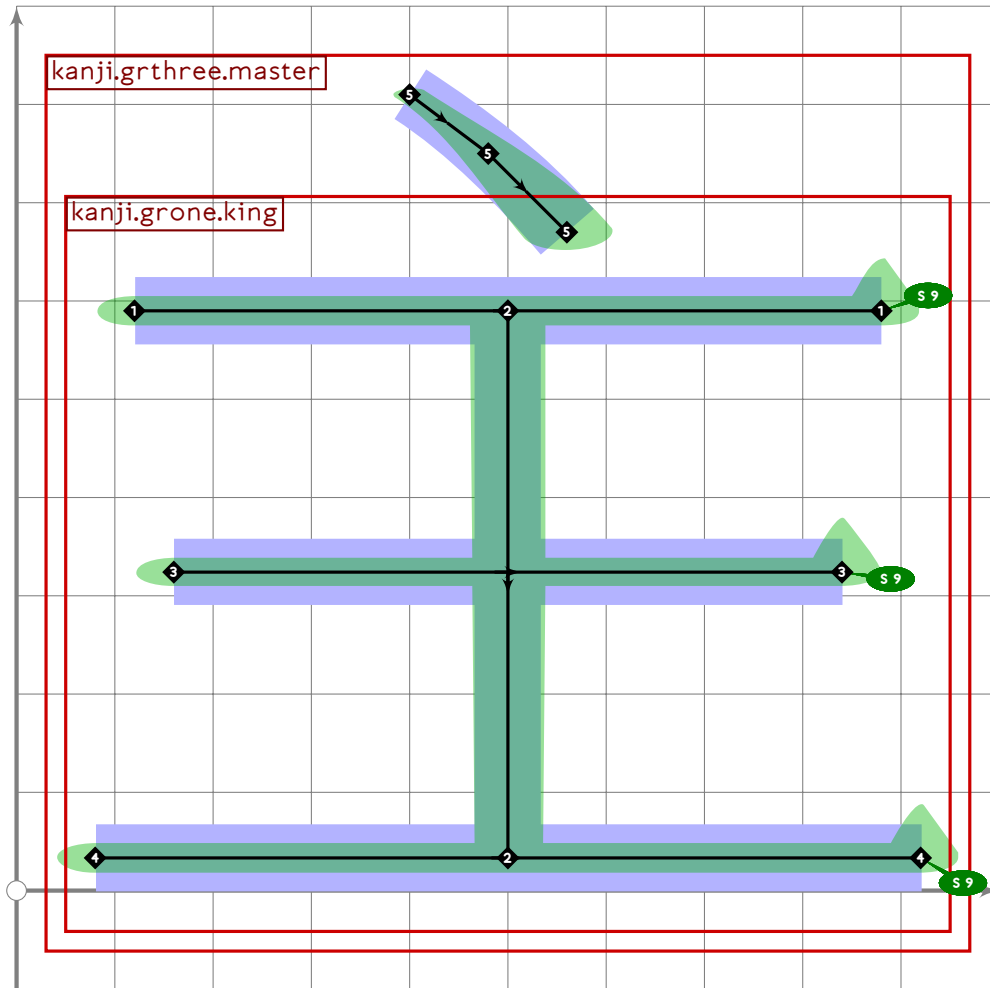
THRE



```

296
297 vardef kanji.grthree.level =
298   push_pbox_toexpand("kanji.grthree.level");
299   build_kanji.level(
300     kanji.grsix.dry;
301     replace_stroke(-1)(oldp shifted (0,-90));
302     build_kanji.sscale(xyscaled (0.8,0.52) shifted (0,190))
303     (kanji.toprad.sparkle_two));
304   expand_pbox;
305 enddef;

```



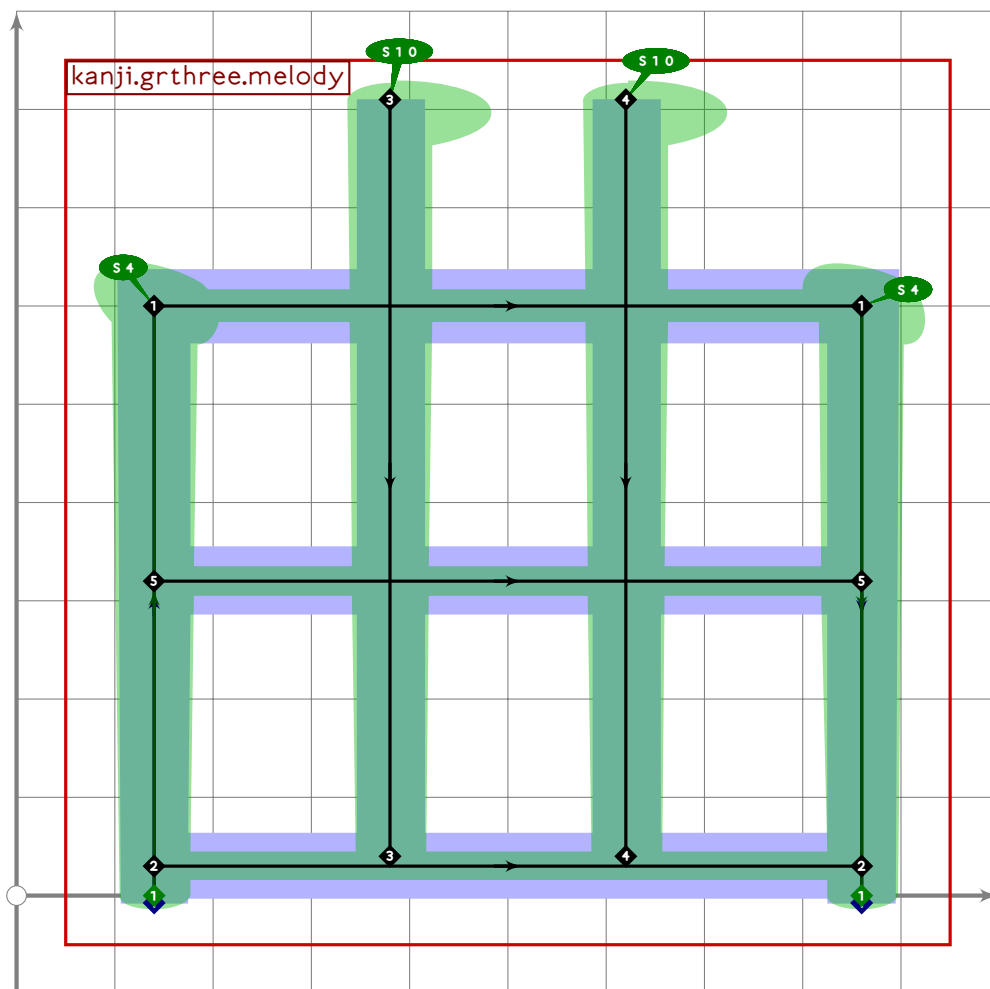
THRE

```

306
307 vardef kanji.grthree.master =
308   push_pbox_toexpand("kanji.grthree.master");
309   build_kanji.level(
310     tsu_xform(identity yscaled (590/710))(kanji.grone.king);
311     push_stroke((400,810)..(480,750)..(560,670),
312       (1,1)-(14,14)-(18,18)));
313   expand_pbox;
314 enddef;

```

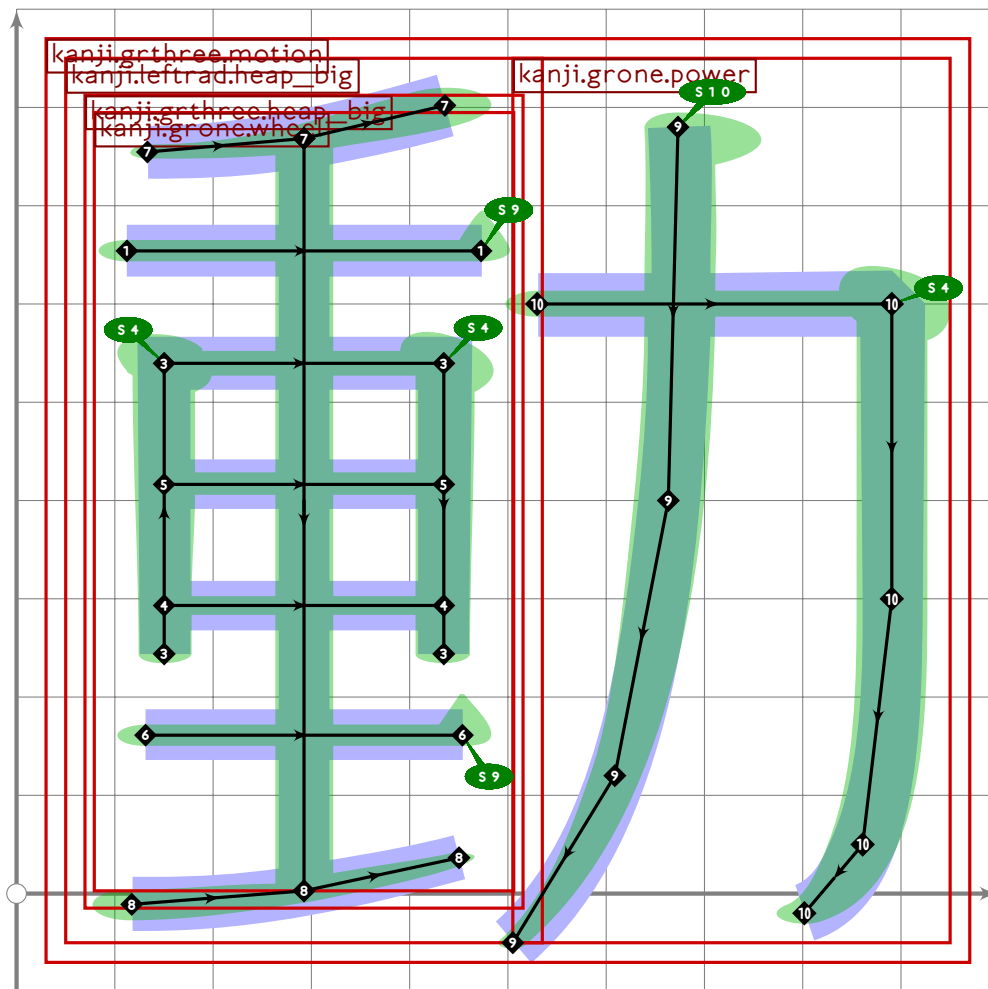
THRE



```

315
316 vardef kanji.grthree.melody =
317   push_pbox_toexpand("kanji.grthree.melody");
318   build_kanji.box((140,600),(860,30));
319   push_stroke((380,810)-(380,40),
320     (1.7,1.7)-(1.5,1.5));
321   set_boserif(0,0,10);
322   push_stroke((620,810)-(620,40),
323     (1.7,1.7)-(1.5,1.5));
324   set_boserif(0,0,10);
325   push_stroke((140,320)-(860,320),
326     (1.6,1.6)-(1.6,1.6));
327   expand_pbox;
328 enddef;

```

THRE

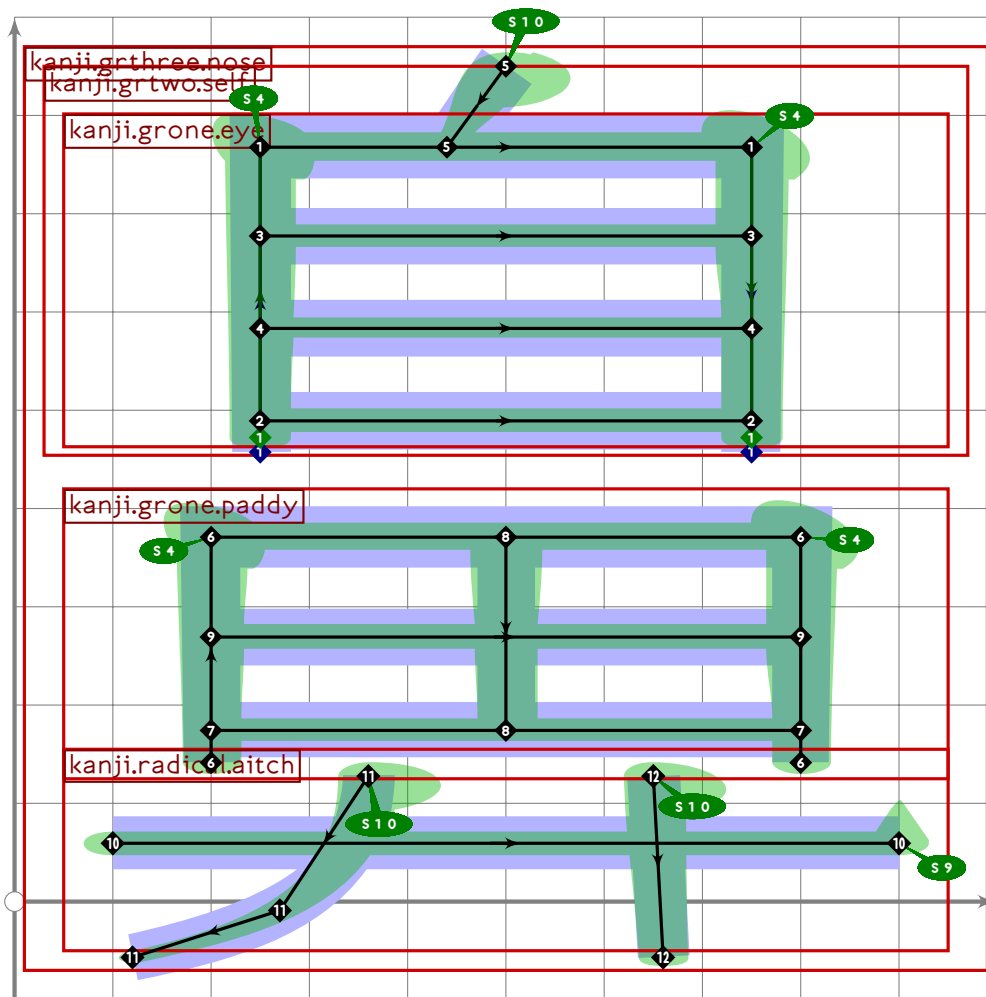
```

329
330 vardef kanji.grthree.motion =
331   push_pbox_toexpand("kanji.grthree.motion");
332   build_kanji.lr(520,30)
333     (kanji.leftrad.heap_big)
334     (kanji.grone.power);
335   expand_pbox;
336 enddef;

```

U+9F3B
tsuku.uni9F3B

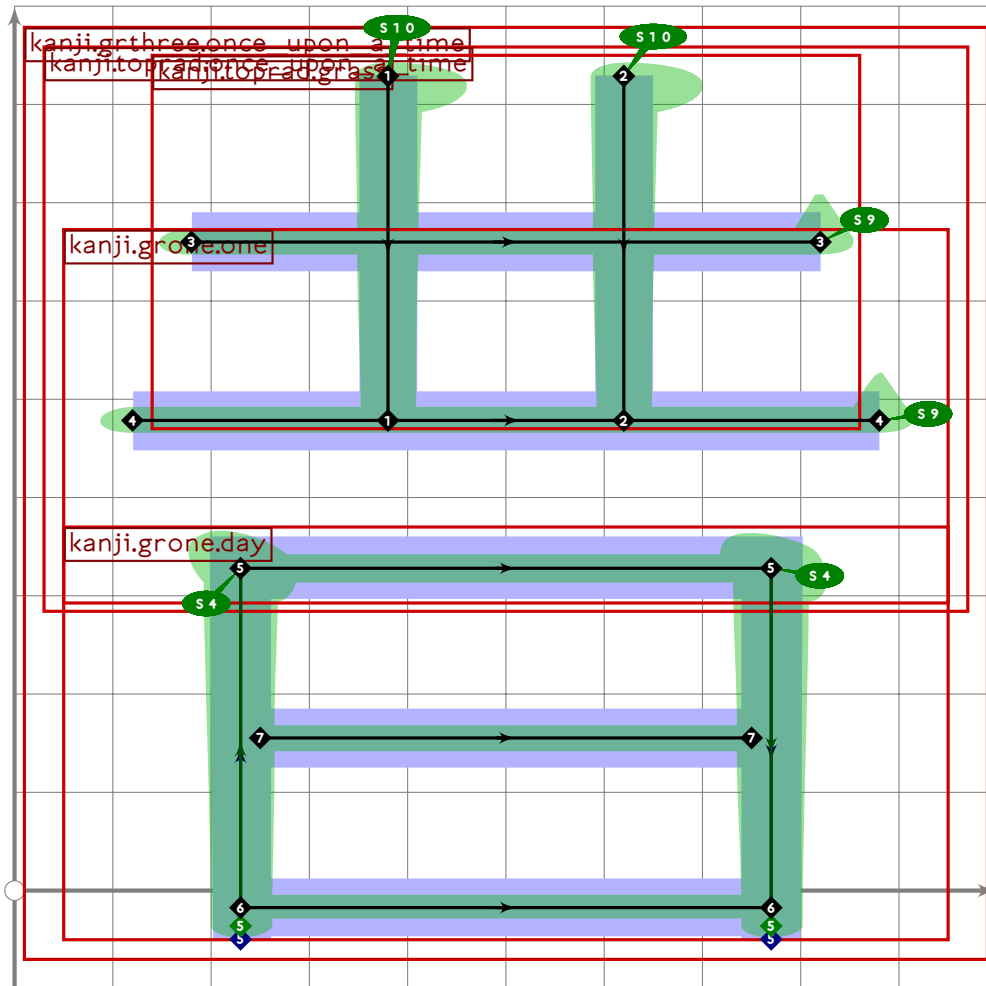
THRE



```

337
338 vardef kanji.grthree.nose =
339   push_pbox_toexpand("kanji.grthree.nose");
340   build_kanji.tcb(440,-40)(140,30)
341     (kanji.grtwo.self)
342     (kanji.grone.paddy)
343     (kanji.radical.aitch);
344   expand_pbox;
345 enddef;

```



THRE

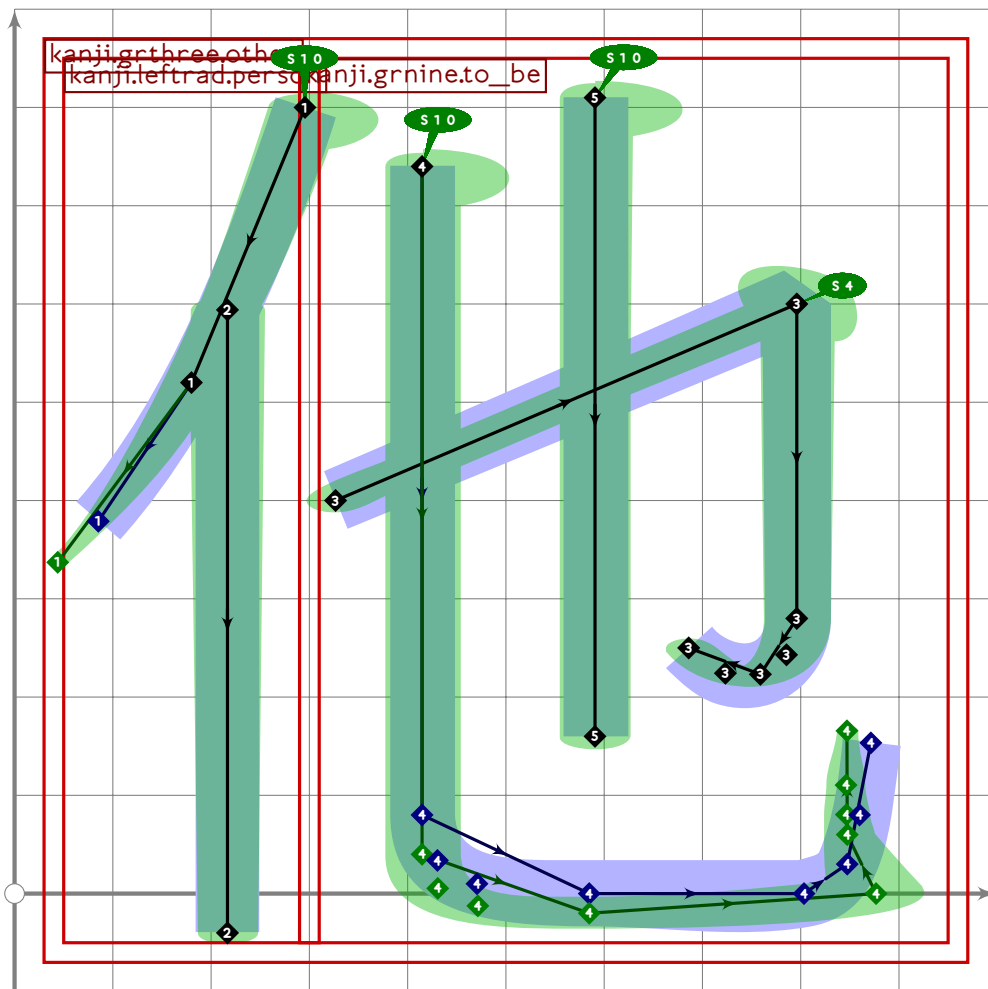
```

346
347 vardef kanji.grthree.once_upon_a_time =
348   push_pbox_toexpand("kanji.grthree.once_upon_a_time");
349   build_kanji.level(build_kanji.tb(420;100)
350     (kanji.toprad.once_upon_a_time)
351     (kanji.grone.day));
352   expand_pbox;
353 enddef;

```

U+4ED6
tsuku.uni4ED6

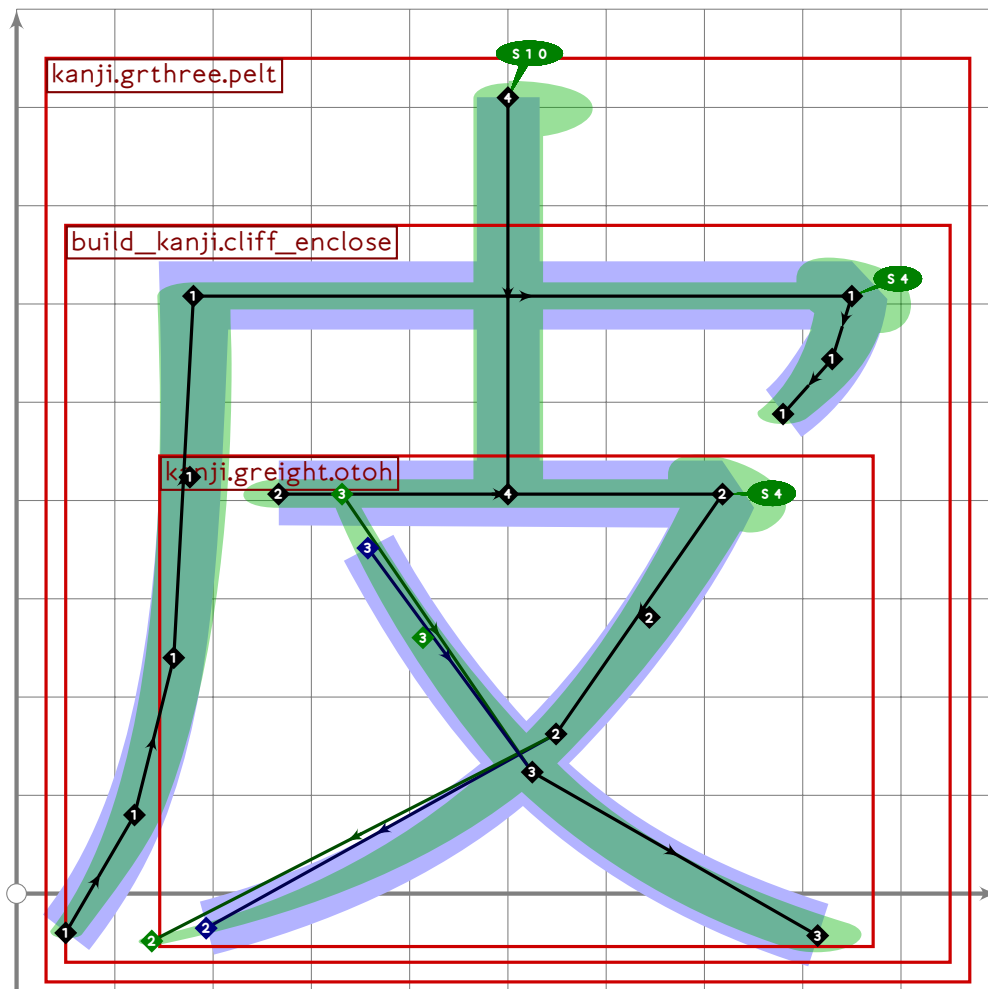
THRE



```

354
355 vardef kanji.grthree.other =
356   push_pbox_toexpand("kanji.grthree.other");
357   build_kanji.lr(300,20)
358     (kanji.leftrad.person)
359     (kanji.grnine.to_be);
360   expand_pbox;
361 enddef;

```



THRE

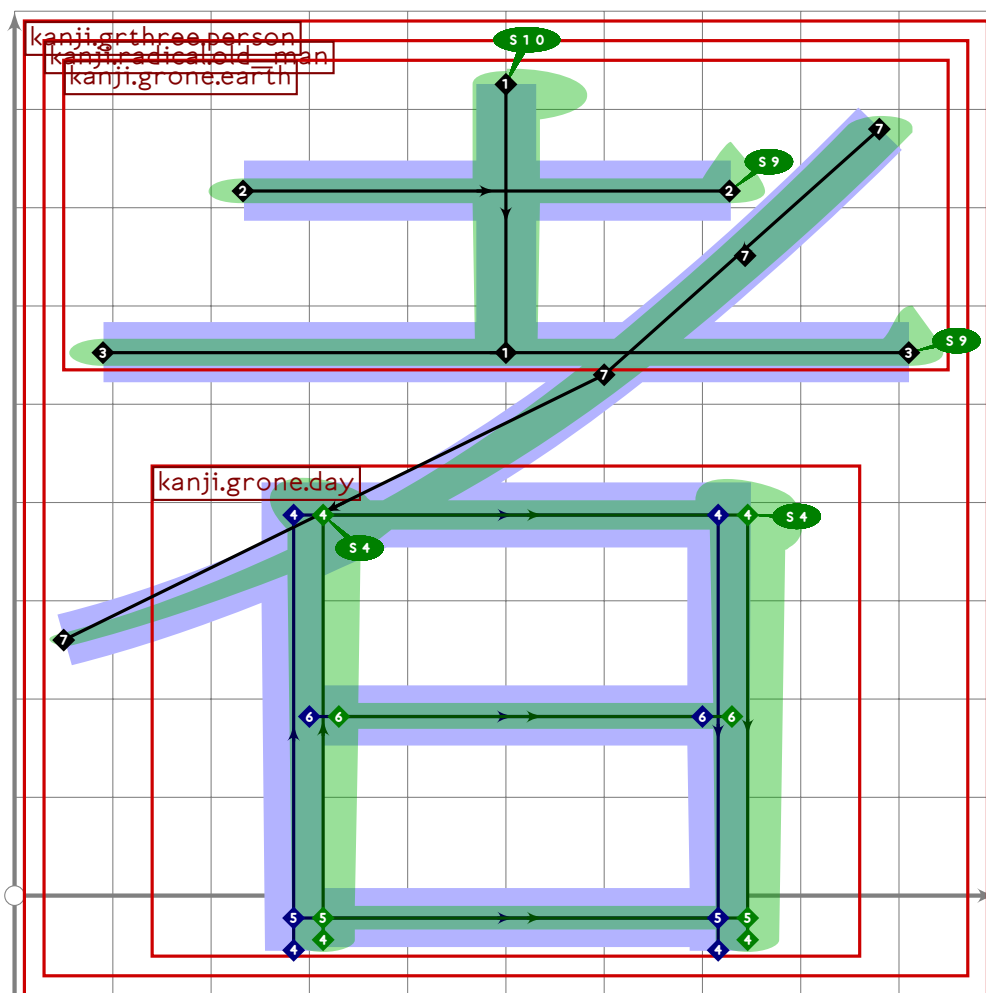
```

362
363 vardef kanji.grthree.pelt =
364   push_pbox_toexpand("kanji.grthree.pelt");
365   build_kanji.level(
366     tsu_xform(identity yscaled 0.8)(
367       build_kanji.cliff_enclose(
368         tsu_xform(identity xyscaled (1,0.8) shifted (-120,-30))
369           (kanji.greight.otoh));
370       replace_stroke(-2)(oldp{curl 1}..(830,680)..(780,610));
371       replace_strokeq(-2)(oldq..(1.5,1.5)..(1.3,1.3));
372       set_boserif(-2,4);
373       set_botip(-2,4,0));
374   push_stroke((500,810)-(500,200),(1.6,1.6)-(1.5,1.5));
375   set_boserif(0,0,10);
376   replace_stroke(0)((point 0 of oldp)-
377     (oldp intersectionpoint get_stroke(-2)));
378   expand_pbox;
379 enddef;

```

U+8005
tsuku.uni8005

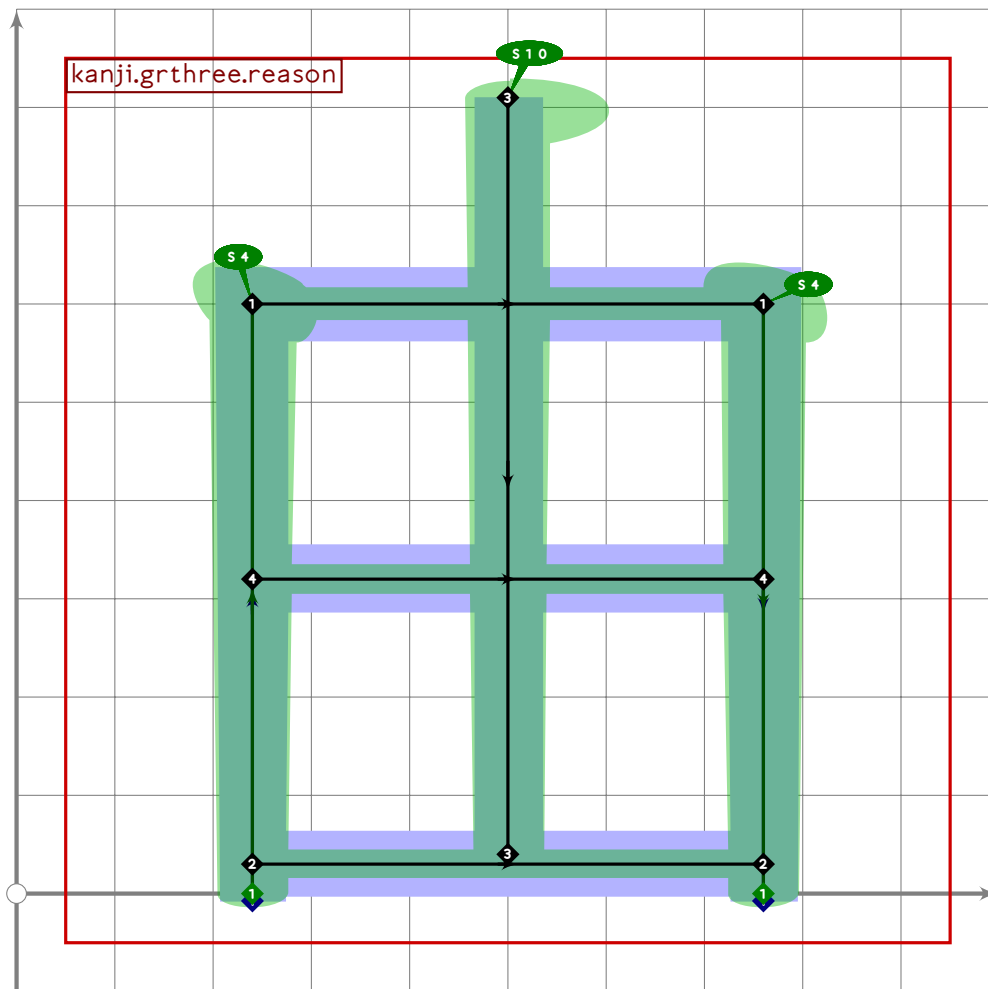
THRE



```

380
381 vardef kanji.grthree.person =
382   push_pbox_toexpand("kanji.grthree.person");
383   kanji.radical.old_man(
384     build_kanji.sscale(xyscaled (0.8,1.05) shifted (30*mincho,0))
385     (kanji.grone.day));
386   expand_pbox;
387 enddef;

```



THRE

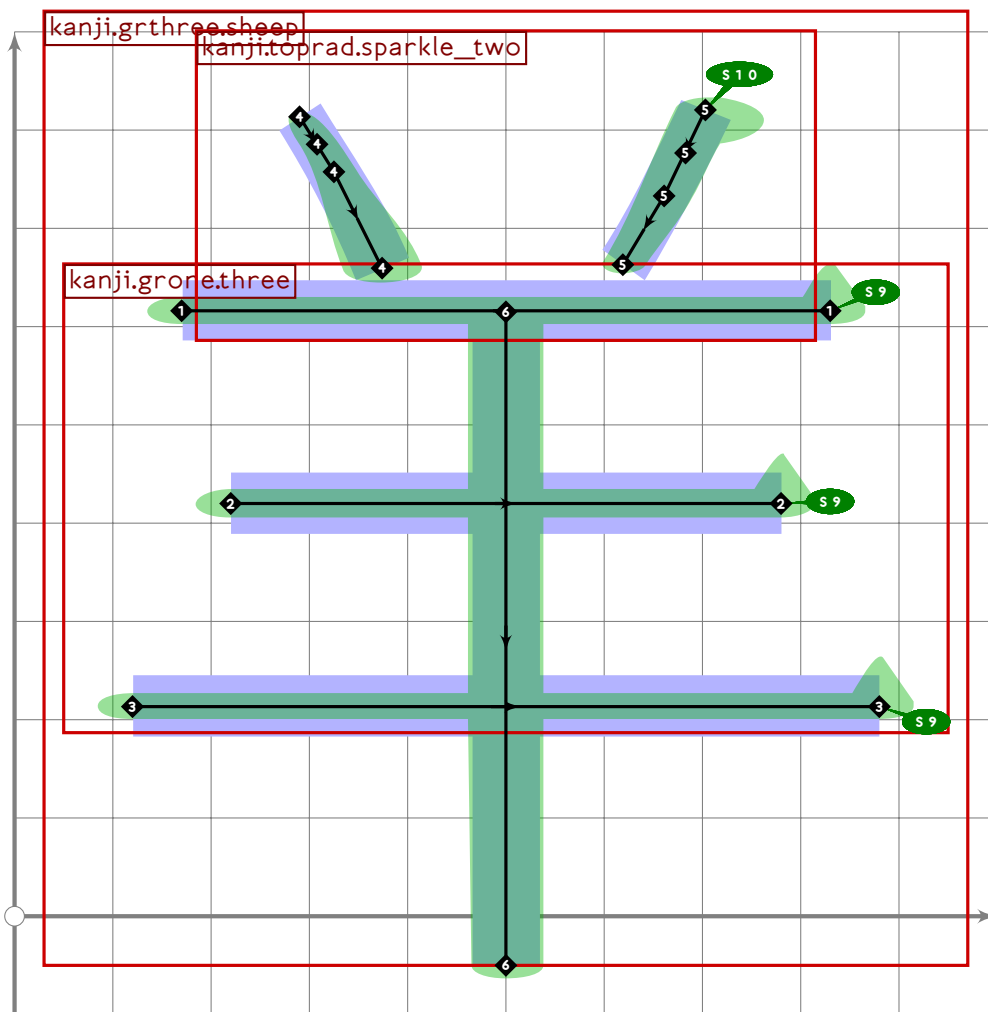
```

388
389 vardef kanji.grthree.reason =
390   push_pbox_toexpand("kanji.grthree.reason");
391   build_kanji.box((240,600),(760,30));
392   push_stroke((500,810)–(500,40),
393     (1.7,1.7)–(1.5,1.5));
394   set_boserif(0,0,10);
395   push_stroke((240,320)–(760,320),
396     (1.6,1.6)–(1.6,1.6));
397   expand_pbox;
398 enddef;

```

U+7F8A
tsuku.uni7F8A

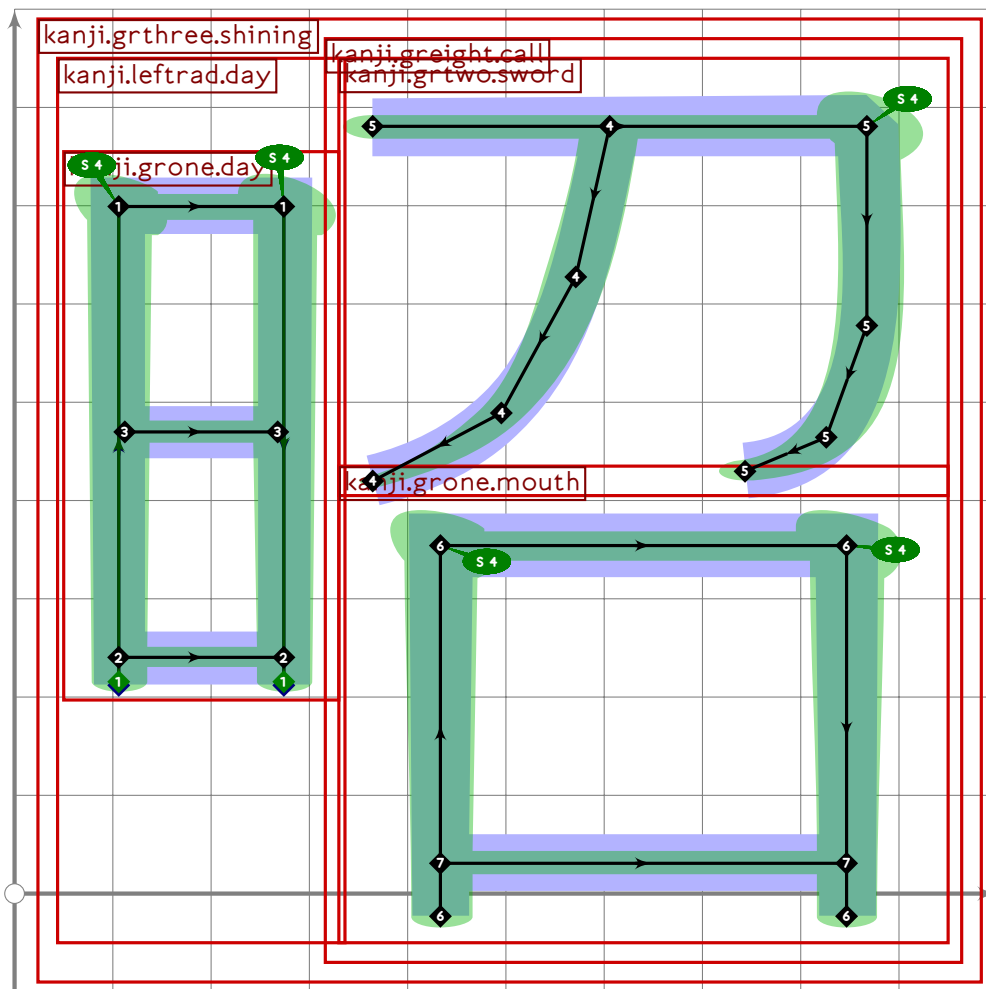
THRE



```

399
400 vardef kanji.grthree.sheep =
401   push_pbox_toexpand("kanji.grthree.sheep");
402   build_kanji.sscale(yscaled 0.53 shifted (0,30))
403     (kanji.grone.three);
404   build_kanji.sscale(xyscaled (0.7,0.35) shifted (0,350))
405     (kanji.toprad.sparkle_two);
406   push_stroke((500,615)-(500,50),(1.6,1.6)-(1.5,1.5));
407   expand_pbox;
408 enddef;

```

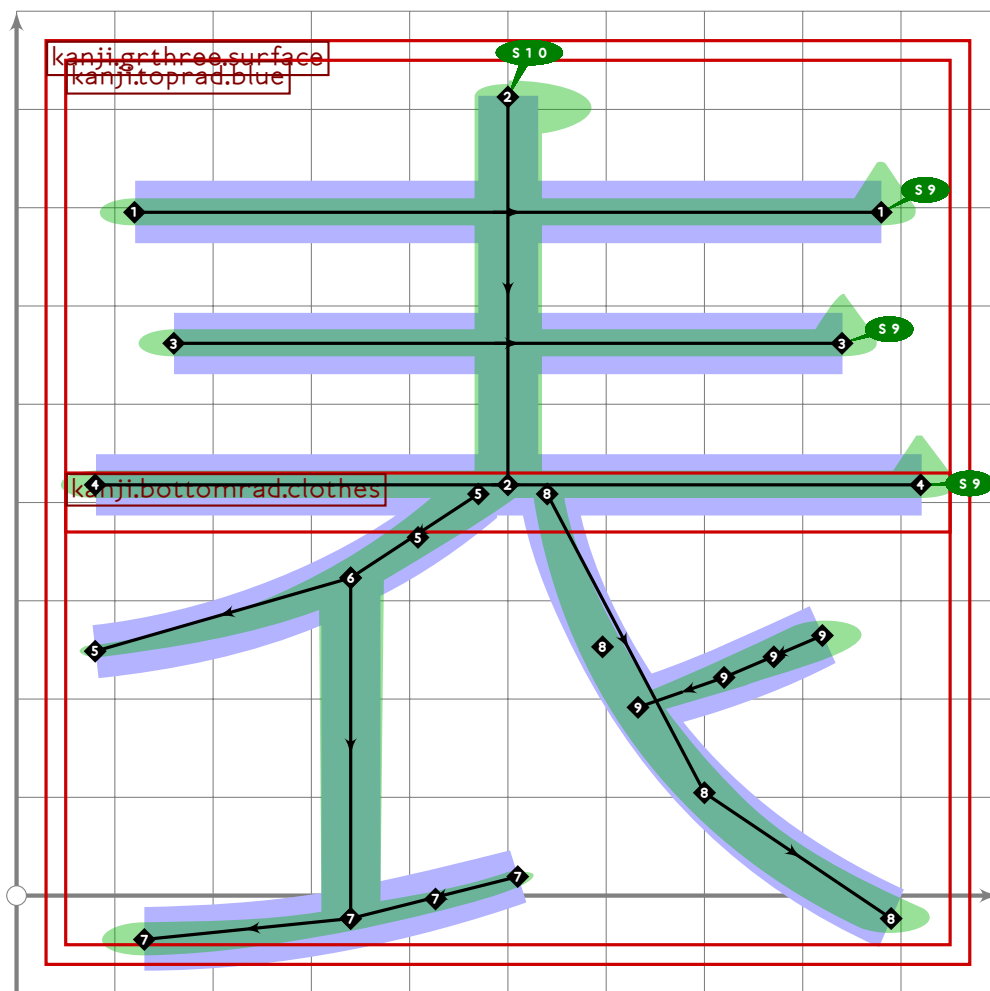
THRE

```

409
410 vardef kanji.grthree.shining =
411   push_pbox_toexpand("kanji.grthree.shining");
412   build_kanji.lr(330,0)
413     (kanji.leftrad.day)
414     (kanji.greight.call);
415   expand_pbox;
416 enddef;

```

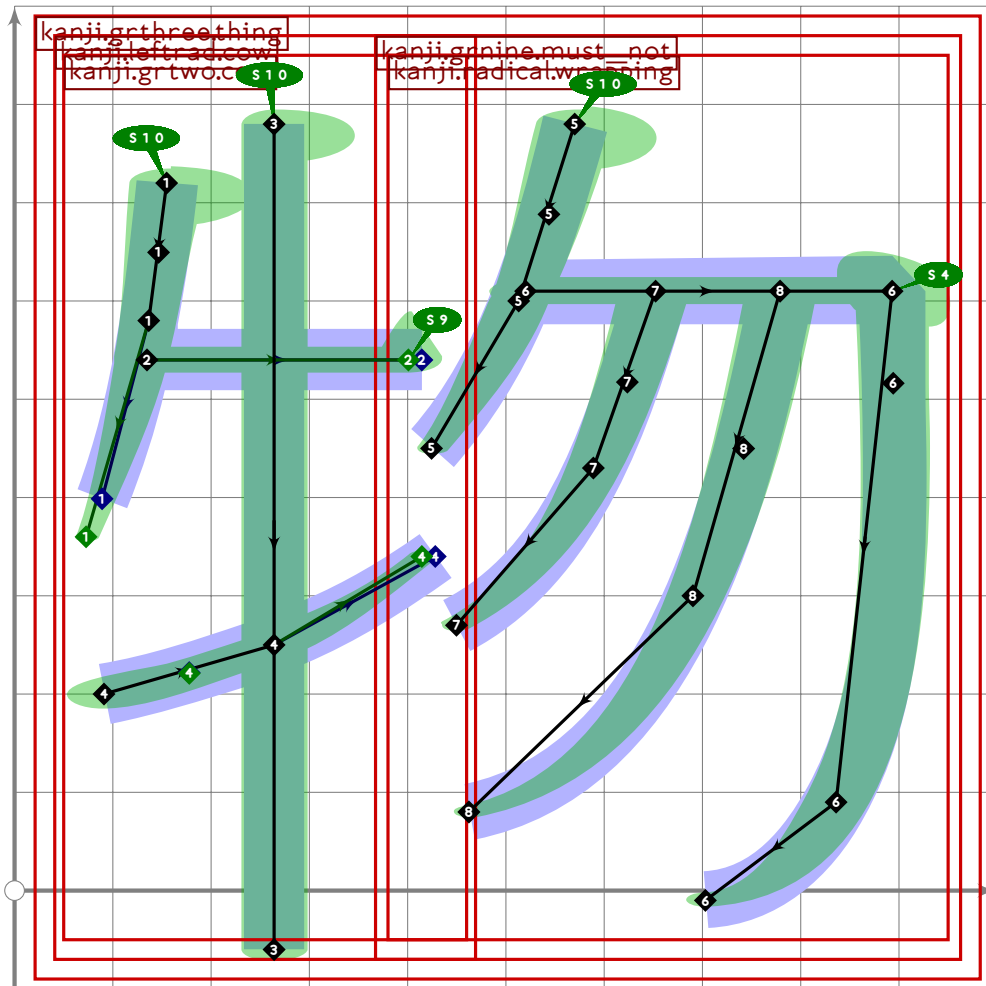
THRE



```

417
418 vardef kanji.grthree.surface =
419   push_pbox_toexpand("kanji.grthree.surface");
420   build_kanji.level(build_kanji.tb(400,60)
421     (kanji.toprad.blue)
422     (kanji.bottomrad.clothes));
423   expand_pbox;
424 enddef;

```



THRE

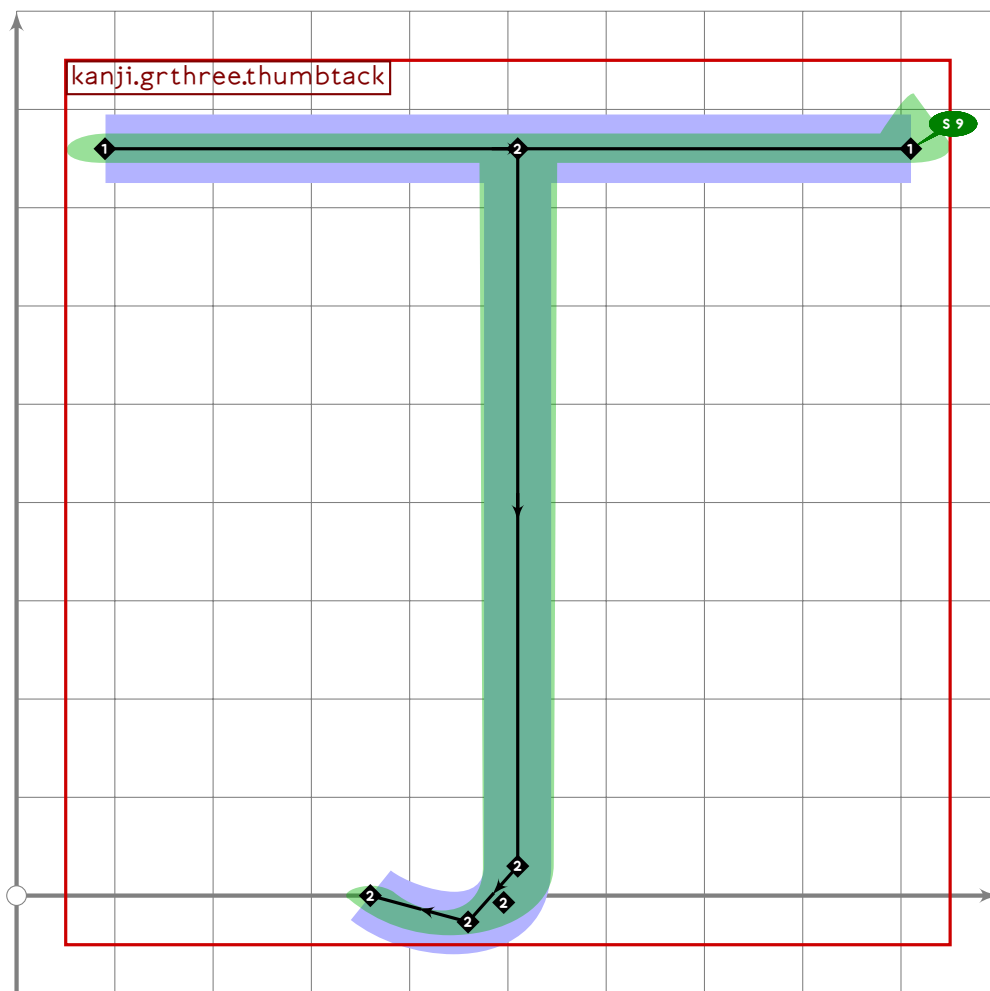
```

425
426 vardef kanji.grthree.thing =
427   push_pbox_toexpand("kanji.grthree.thing");
428   push_stroke((500,840),(1,6,1,6));
429   set_boserif(0,0,10);
430   build_kanji.add_jtail(0);
431   push_stroke((80,740)-(920,740),(1,6,1,6)-(1,6,1,6));
432   set_boserif(0,1,9);
433   build_kanji.box((230,620),(770,500));
434   tsu_xform(identity yscaled 0.37 shifted (0,100))
435     (kanji.radical.pigs_snout);
436   for i=-7 upto 0: set_bosize(i,85); endfor;
437   expand_pbox;
438 enddef;

```

U+4E01
tsuku.uni4E01

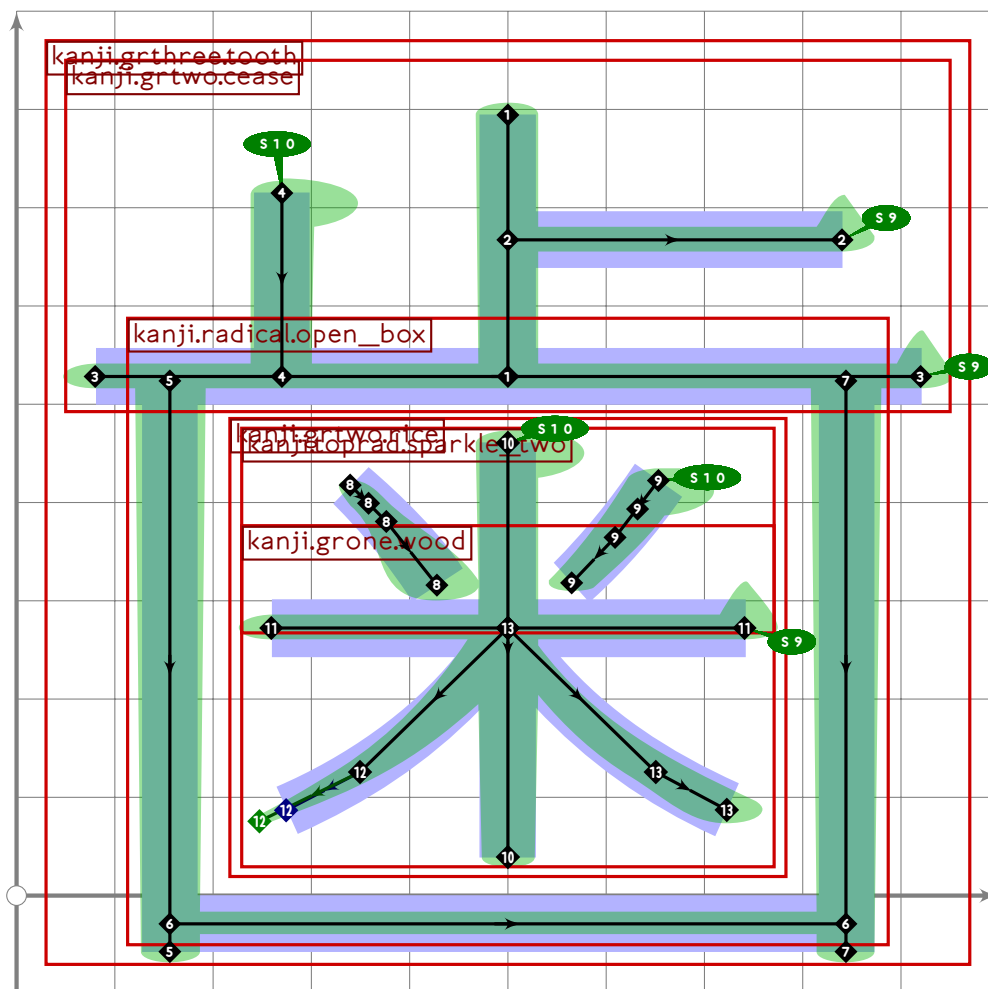
THRE



```

439
440 vardef kanji.grthree.thumbtack =
441   push_pbox_toexpand("kanji.grthree.thumbtack");
442   push_stroke((90,760)-(910,760),(1.6,1.6)-(1.6,1.6));
443   set_boserif(0,9);
444   push_stroke((510,760),(1.6,1.6));
445   build_kanji.add_jtail(0);
446   expand_pbox;
447 enddef;

```



THRE

```

448
449 vardef kanji.grthree.tooth =
450   push_pbox_toexpand("kanji.grthree.tooth");
451   build_kanji.level(build_kanji.tb(540,95)
452     (kanji.grtwo.cease)
453     (build_kanji.sscale(xscaled 0.86)(
454       kanji.radical.open_box;
455       set_boserif(-2,0,whatever);
456       set_boserif(0,0,whatever);
457       build_kanji.sscale(scaled 0.7 shifted (0,-20))(kanji.grtwo.rice))));
458   expand_pbox;
459 enddef;
460
461 vardef hook.world_corner(expr side_i,bottom_i) =
462   if (obstacktype[side_i]=otstroke) and (obstacktype[bottom_i]=otstroke):
463     if (1=length obstackp[side_i]) and (1=length obstackp[bottom_i]):
464       begingroup;
465       save x,y,p,e;
466       numeric x[],y[],e[];
467       path p[];
468

```



```

490 vardef kanji.grthree.world =
491   push_pbox_toexpand("kanji.grthree.world");
492   build_kanji.box((200,780),(840,20));
493   replace_strokep(-1)(reverse subpath (0,1) of oldp);
494   replace_strokeq(-1)(reverse subpath (0,1) of oldq);
495   set_boserif(-1,0,10);
496   set_boserif(-1,1,whatever);
497   set_botip(-1,1,whatever);
498   pop_hook;
499   push_hook(hsmain_render,
500     "hook.world_corner("&(decimal find_stroke(-1))&"
501       &(decimal find_stroke(0))&");" );
502   push_stroke((40,520)-(900,520),
503     (1.6,1.6)-(1.6,1.6));
504   set_boserif(0,1,9);
505   build_kanji.box((460,810),(720,280));
506   set_boserif(-1,0,10);
507   set_boserif(-1,1,whatever);
508   set_botip(-1,1,whatever);
509   push_stroke(subpath (2,3) of get_strokep(-1),
510     subpath (2,3) of get_strokeq(-1));
511   replace_strokep(-2)(reverse subpath (0,1) of oldp);
512   replace_strokeq(-2)(reverse subpath (0,1) of oldq);
513   set_boserif(0,0,10);
514   expand_pbox;
515 enddef;

```

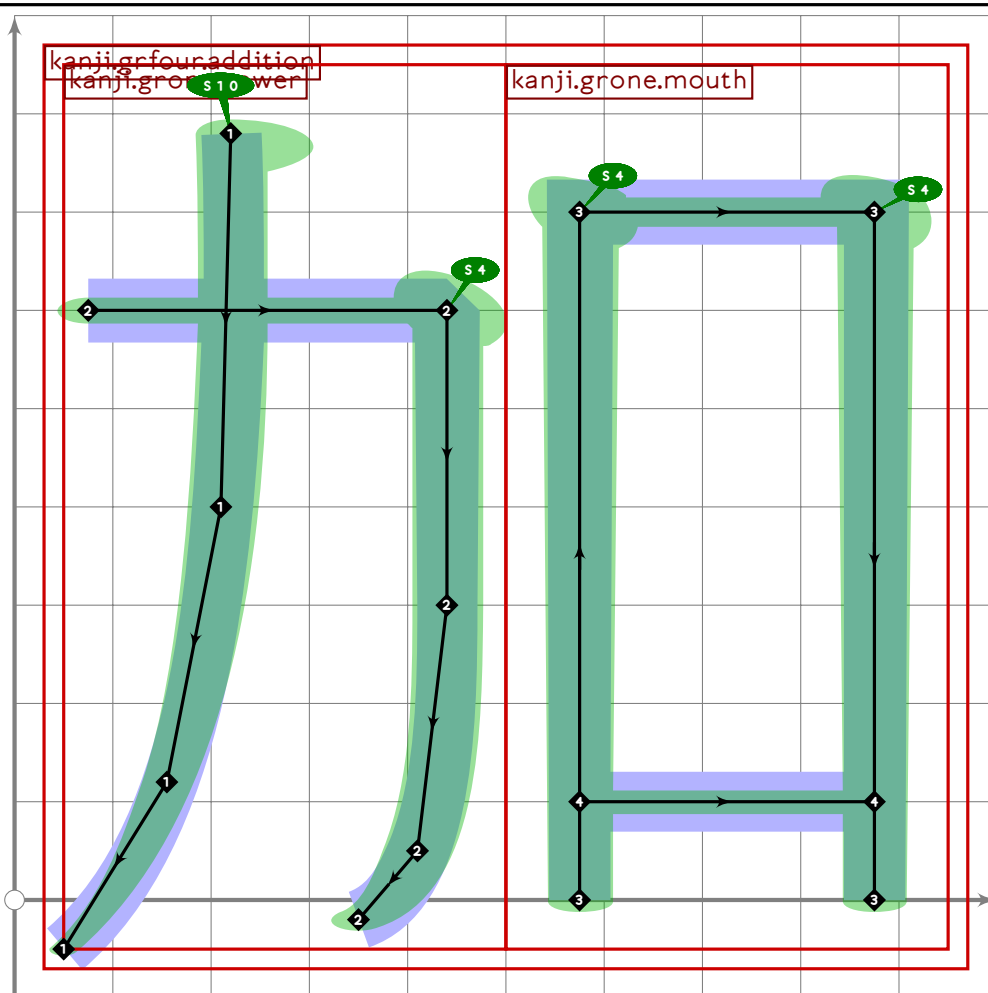
gradefour.mp

```

1 %
2 % Grade Four kanji used on more than one page
3 % Copyright (C) 2011, 2012, 2013 Matthew Skala
4 %
5-29 [Standard copyright notice]
30
31 inclusion_lock(gradefour);
32
33

```

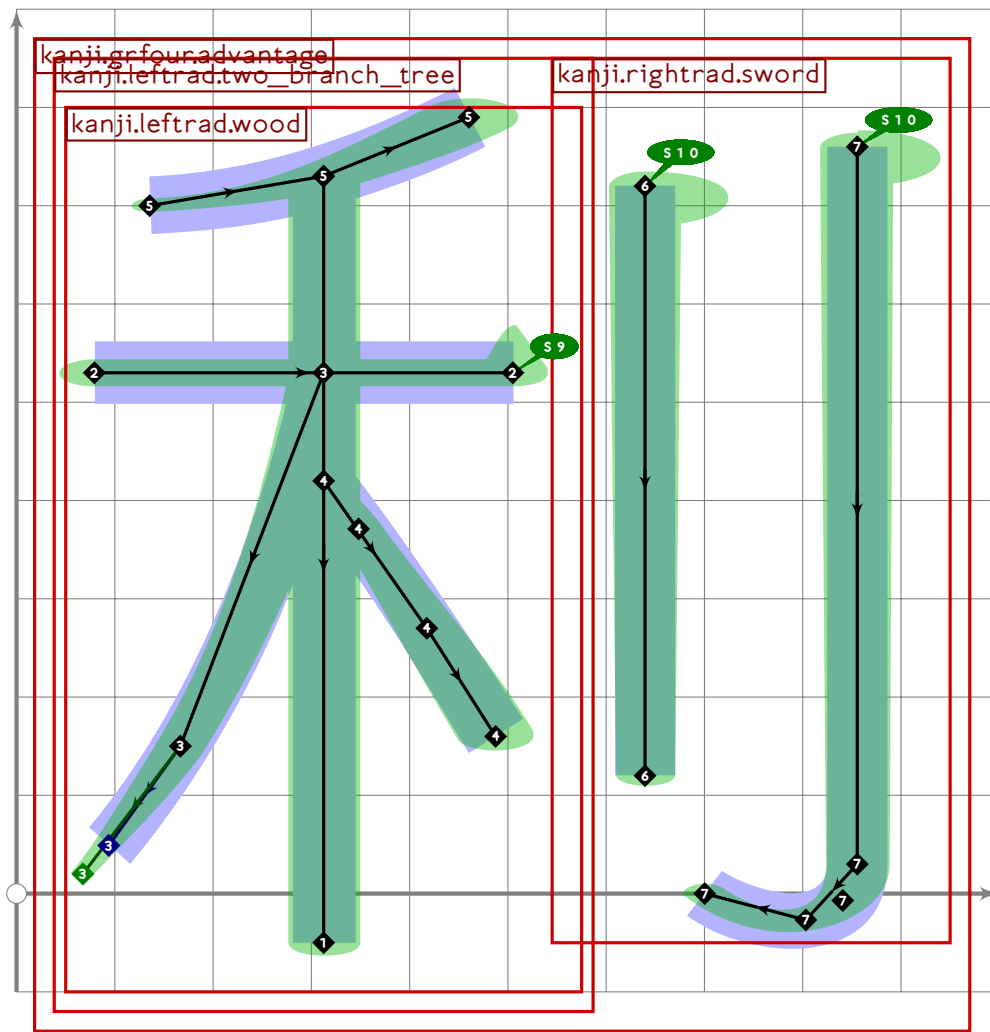
FOUR



```

34
35 vardef kanji.grfour.addition =
36   push_pbox_toexpand("kanji.grfour.addition");
37   build_kanji.level(build_kanji.lr(500,0)
38     (kanji.grone.power)
39     (kanji.grone.mouth));
40   expand_pbox;
41 enddef;

```

FOUR

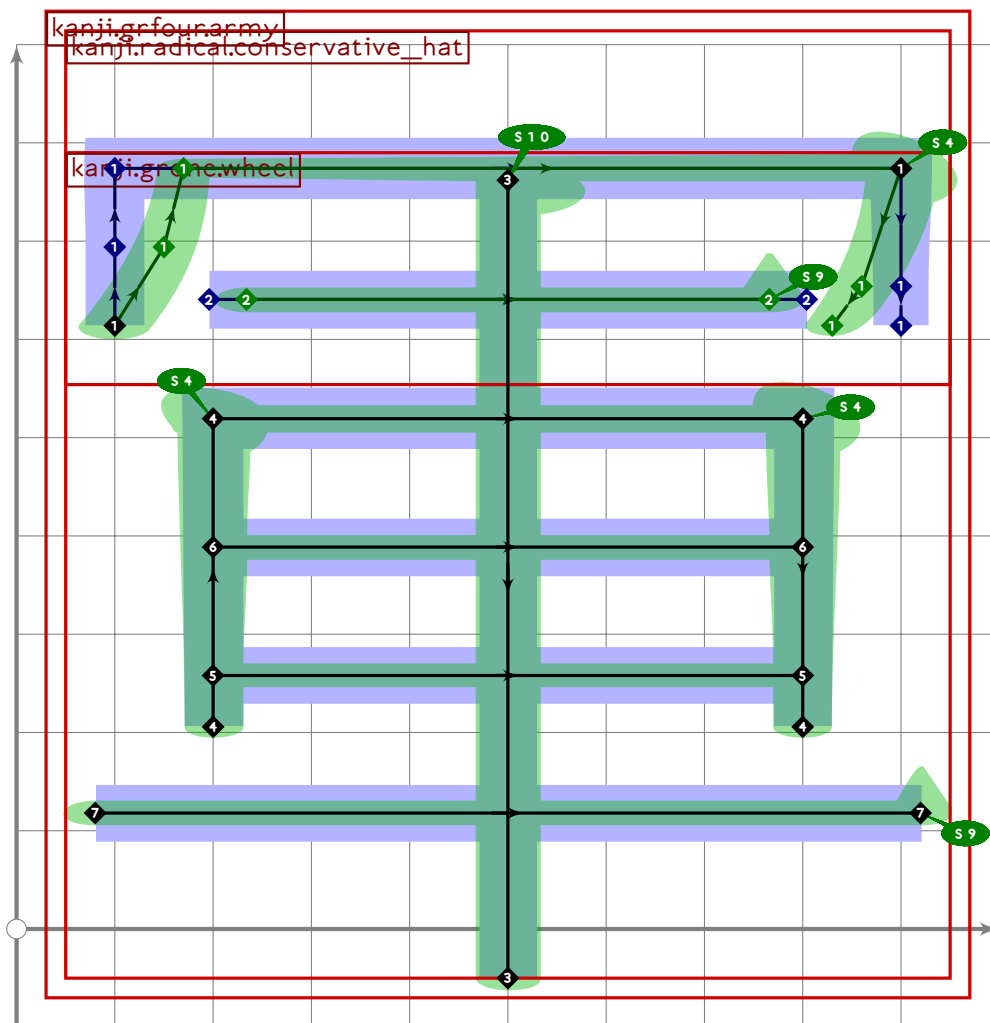
```

42
43 vardef kanji.grfour.advantage =
44   push_pbox_toexpand("kanji.grfour.advantage");
45   build_kanji.level(build_kanji.lr(560,30)
46     (kanji.leftrad.two_branch_tree)
47     (kanji.rightrad.sword));
48   expand_pbox;
49 enddef;

```

U+8ECD
tsuku.uni8ECD

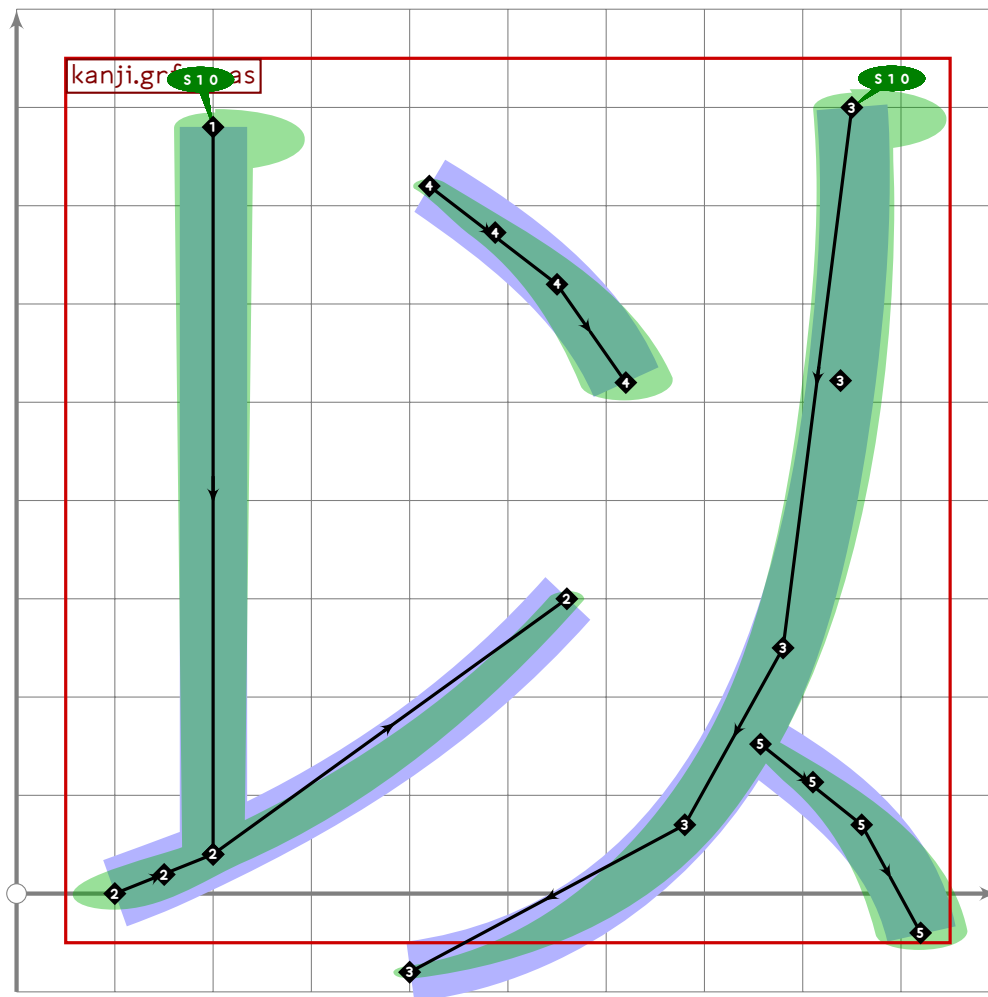
FOUR



```

50
51 vardef kanji.grfour.army =
52   push_pbox_toexpand("kanji.grfour.army");
53   build_kanji.level(build_kanji.tb(640,300)
54     (tsu_xform(identity shifted (0,160))(kanji.radical.conservative_hat))
55     (kanji.grone.wheel;
56       replace_stroke(-5)(subpath (0,1+0.05*mincho,0.9-0.05*mincho) of oldp)));
57   expand_pbox;
58 enddef;

```



FOUR

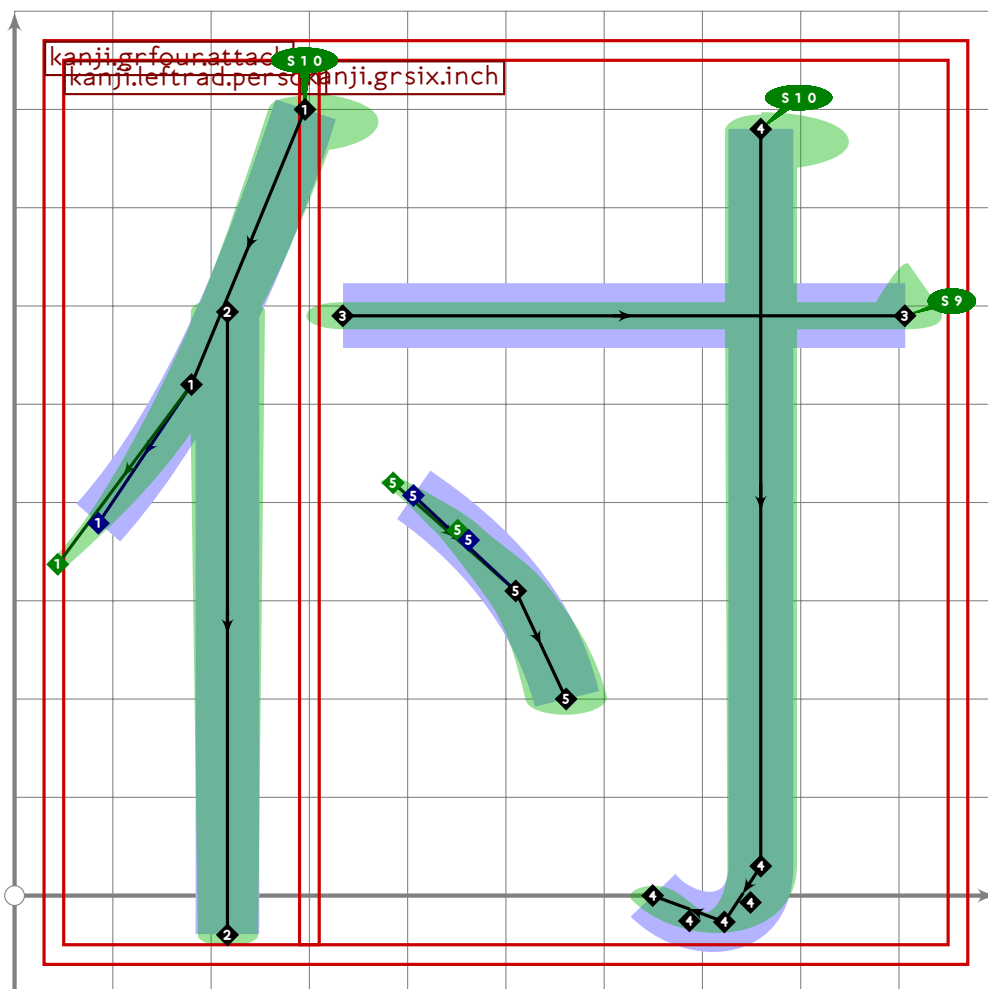
```

59
60 vardef kanji.grfour.as =
61   push_pbox_toexpand("kanji.grfour.as");
62   push_stroke((200,780)-(200,40),(1,6,1,6)-(1,4,1,4));
63   set_boserif(0,0,10);
64   push_stroke((100,0)..tension 1.2..(200,40)..(560,300),
65     (1,7,1,7)-(1,5,1,5)-(1,1));
66   push_stroke((850,800)..tension 1.2..(780,250)
67     ..(680,70)..(400,-80),
68     (1,6,1,6)-(1,5,1,5)-(1,5,1,5)-(1,1));
69   set_boserif(0,0,10);
70   push_stroke((420,720)..tension 1.3..(550,620)..(620,520),
71     (1,1)-(1,5,1,5)-(1,8,1,8));
72   push_stroke((point 1.3 of get_stroke(-1)).tension 1.3
73     ..(860,110)..(920,0),
74     (1,1)-(1,5,1,5)-(1,8,1,8));
75   replace_stroke(0)(oldp shifted (0,-40));
76   expand_pbox;
77 enddef;

```

U+4ED8
tsuku.uni4ED8

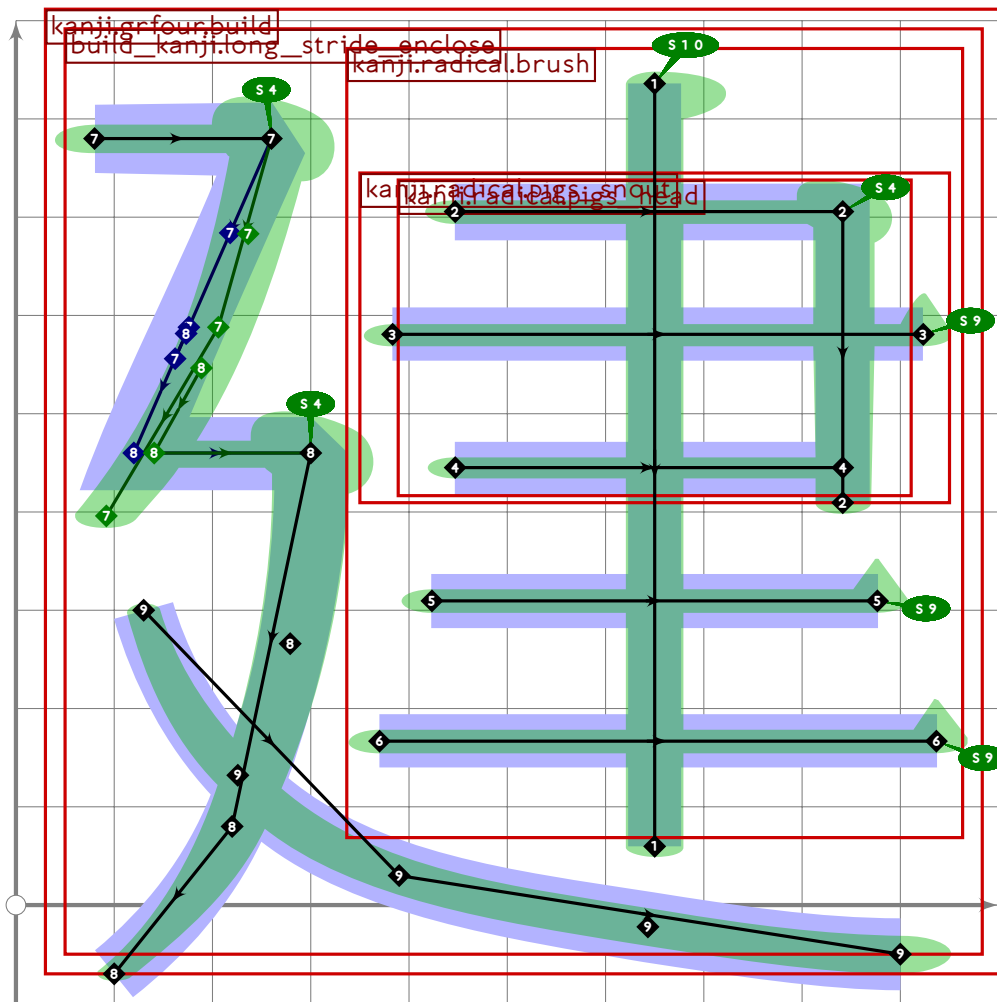
FOUR



```

78
79 vardef kanji.grfour.attach =
80   push_pbox_toexpand("kanji.grfour.attach");
81   build_kanji.lr(300,20)
82     (kanji.leftrad.person)
83     (kanji.grsix.inch);
84   expand_pbox;
85 enddef;

```



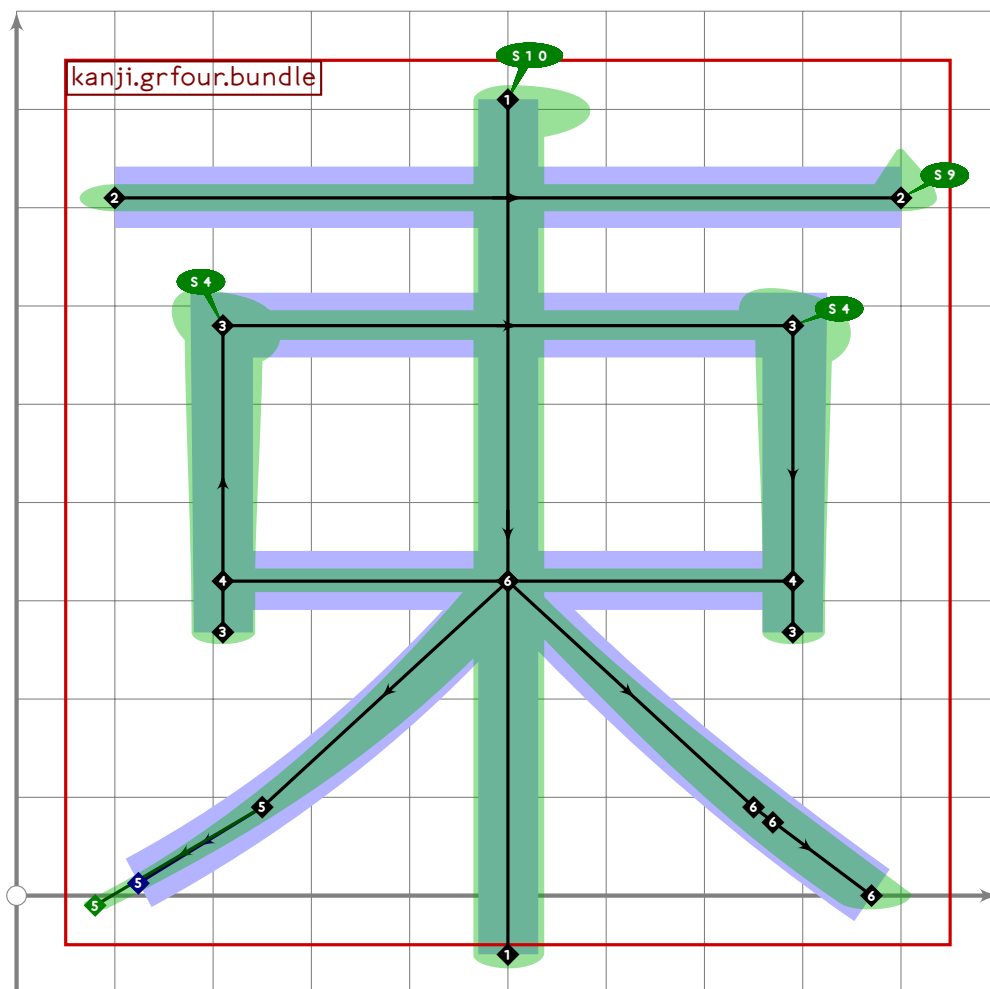
FOUR

```

86
87 vardef kanji.grfour.build =
88   push_pbox_toexpand("kanji.grfour.build");
89   build_kanji.long_stride_enclose(false)
90   (build_kanji.sscale(yscaled 1.1 shifted (0,30))(kanji.radical.brush));
91   expand_pbox;
92 enddef;

```

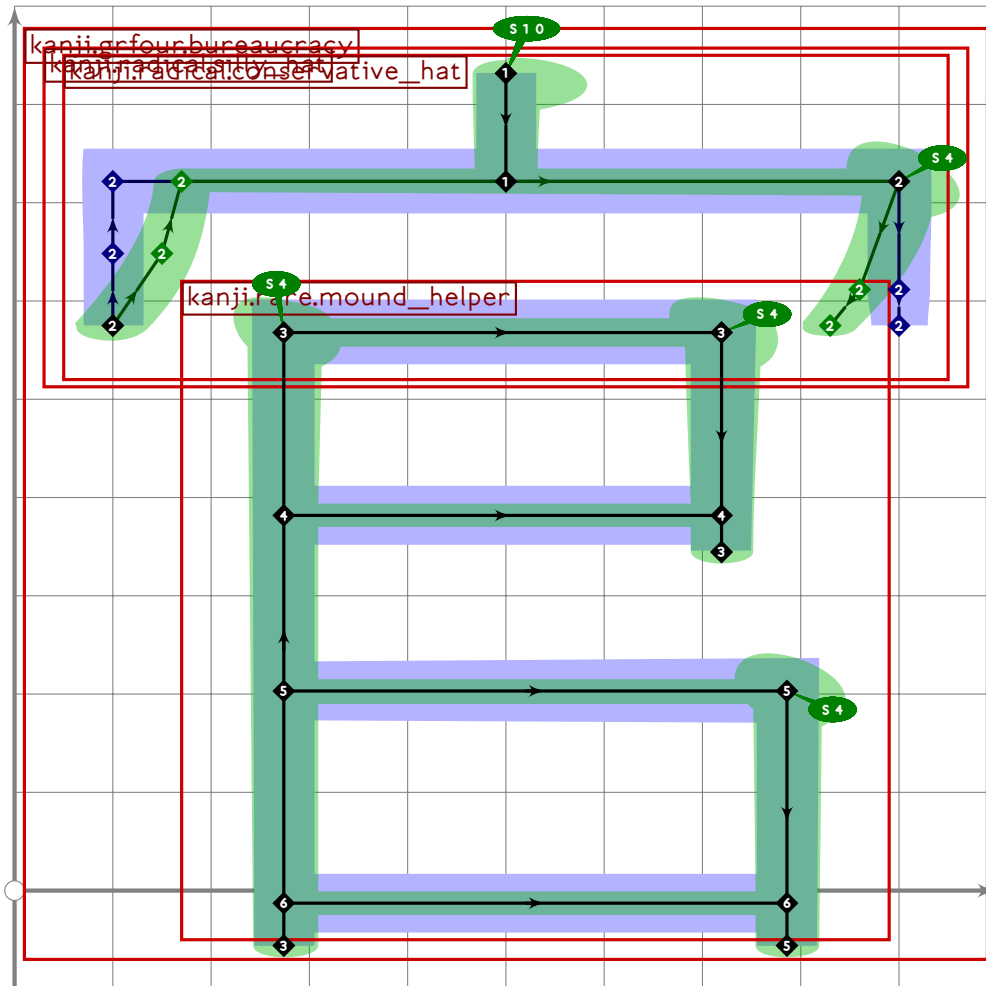
FOUR



```

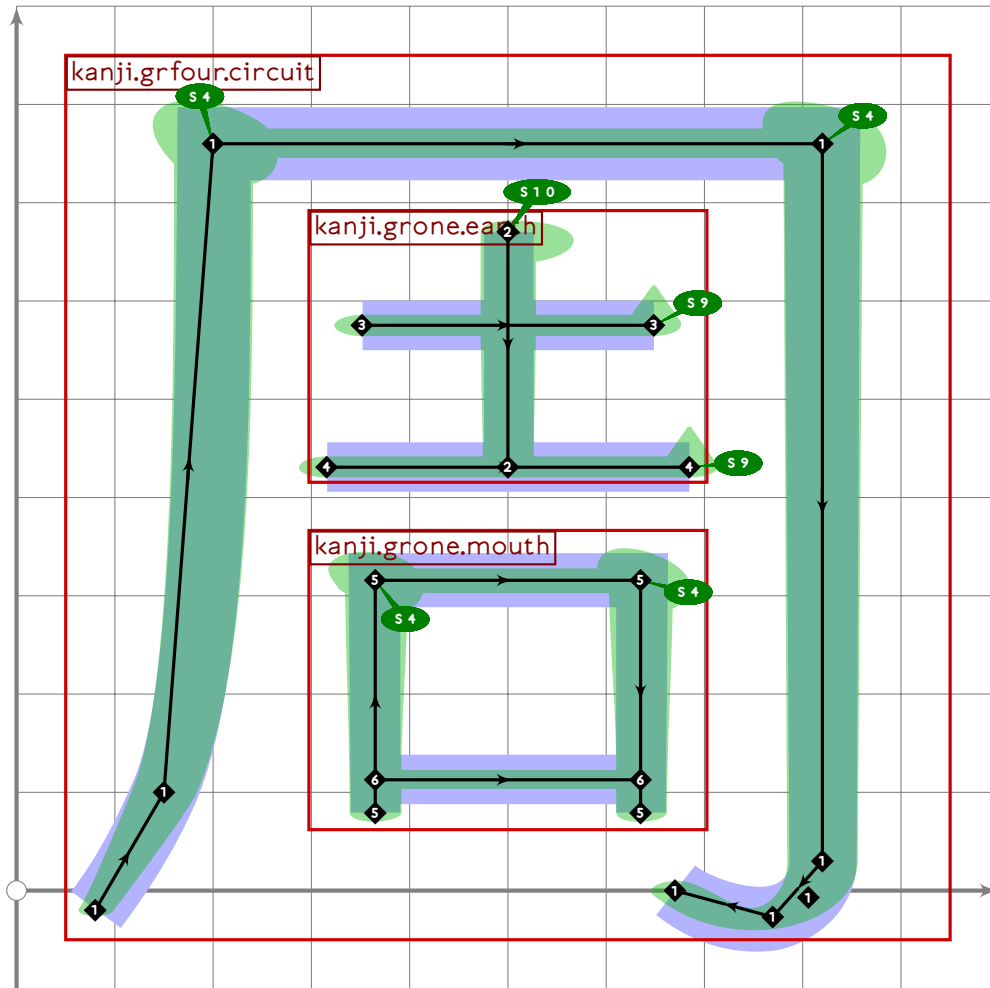
93
94 vardef kanji.grfour.bundle =
95   push_pbox_toexpand("kanji.grfour.bundle");
96   push_stroke((500,810)-(500,-60),
97     (1,6,1,6)-(1,6,1,6));
98   set_boserif(0,0,10);
99   push_stroke((100,710)-(900,710),
100     (1,6,1,6)-(1,6,1,6));
101   set_boserif(0,1,9);
102   build_kanji.box((210,580),(790,320));
103   push_stroke((500,320)..(250,90)..(80,-10),
104     (1,6,1,6)..(1,3,1,3)..(0,9,0,9));
105   push_stroke((500,320)..(750,90)..(870,0),
106     (1,1,1,1)..(1,5,1,5)..(1,7,1,7));
107   for i=-6 upto 0: set_bosize(i,89); endfor;
108   expand_pbox;
109 enddef;

```



FOUR

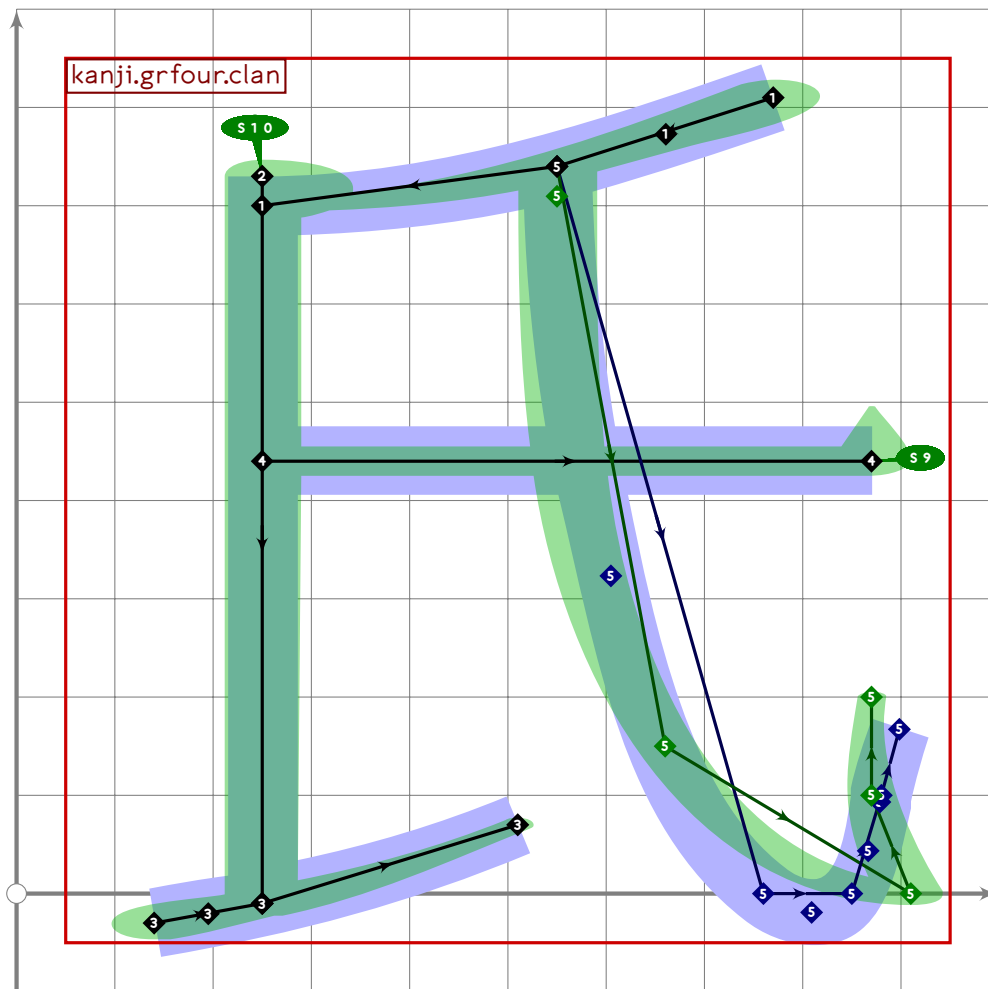
FOUR



```

119
120 vardef kanji.grfour.circuit =
121   push_pbox_toexpand("kanji.grfour.circuit");
122   push_stroke((80,-20)..(150,100)..{up}(200,760){right}-(820,760),
123     (1,1)-(14,14)-(16,16)-(16,16));
124   build_kanji.add_jtail(0);
125   set_botip(0,2,0.8);
126   set_botip(0,3,1);
127   set_boserif(0,2,4);
128   set_boserif(0,3,4);
129   build_kanji.sscale(xyscaled (0.45,0.7) shifted (0,-20))
130     (build_kanji.tb(420,70)
131       (kanji.grone.earth)
132       (kanji.grone.mouth));
133   expand_pbox;
134 enddef;

```

FOUR

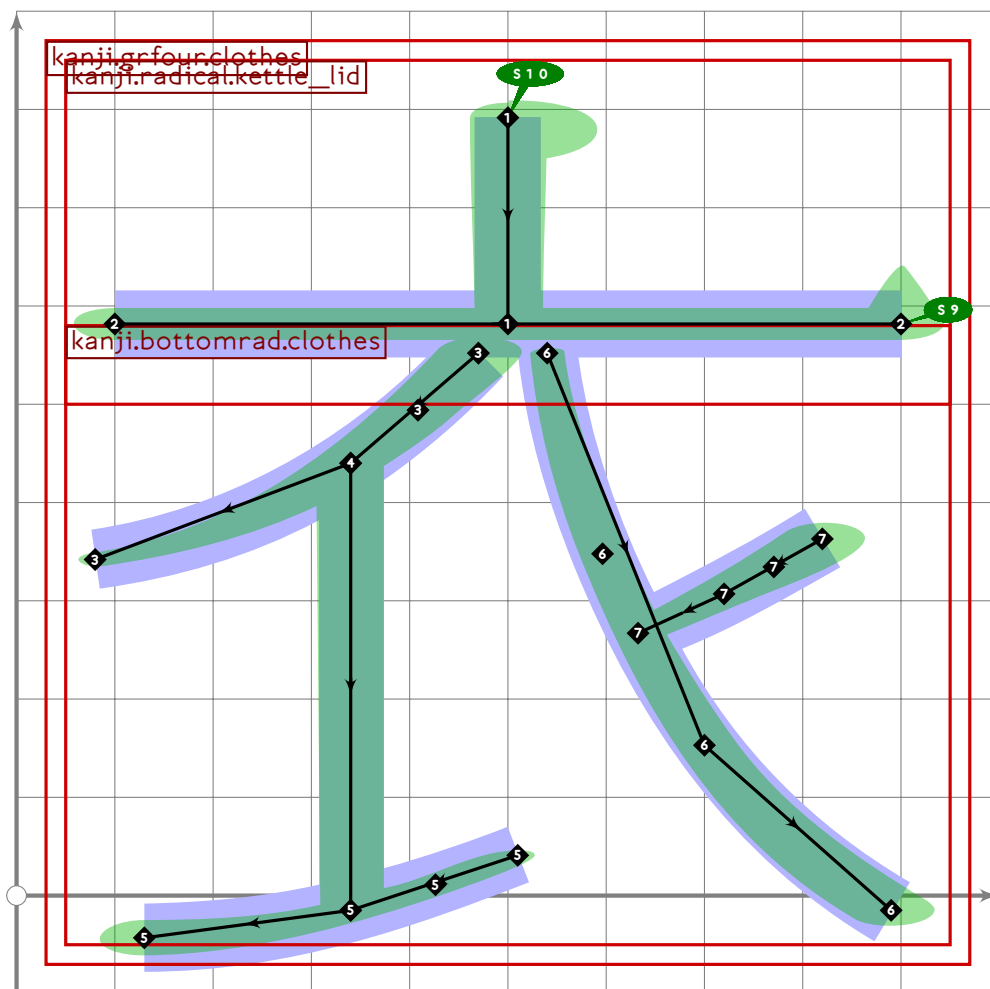
```

135
136 vardef kanji.grfour.clan =
137   push_pbox_toexpand("kanji.grfour.clan");
138   push_stroke((770,810)..tension 1.2..(550,740)..(250,700),
139     (1,8)-(1,5)-(1,1));
140   push_stroke((250,730)-(250,-10),
141     (1,6)-(1,5));
142   set_boserif(0,10);
143   push_stroke((140,-30)..tension 1.2..(250,-10)..(510,70),
144     (1,7)-(1,5)-(1,1));
145   push_stroke((250,440)-(870,440),(1,6)-(1,6));
146   set_boserif(0,19);
147   push_stroke(interpath(mincho,
148     (550,740){down}..tension 1.2 and 1.6..(760,0)..(850,0)..tension 1.5..
149     (880,100)..(910,200),
150     (550,740){down}..(660,150)..{right}(910,0){curl 1}..
151     (870,100)..(870,200)),
152     (1,6)-(1,4)-(1,4)-(1,2,1.2)-(0,9));
153   expand_pbox;
154 enddef;

```

U+8863
tsuku.uni8863

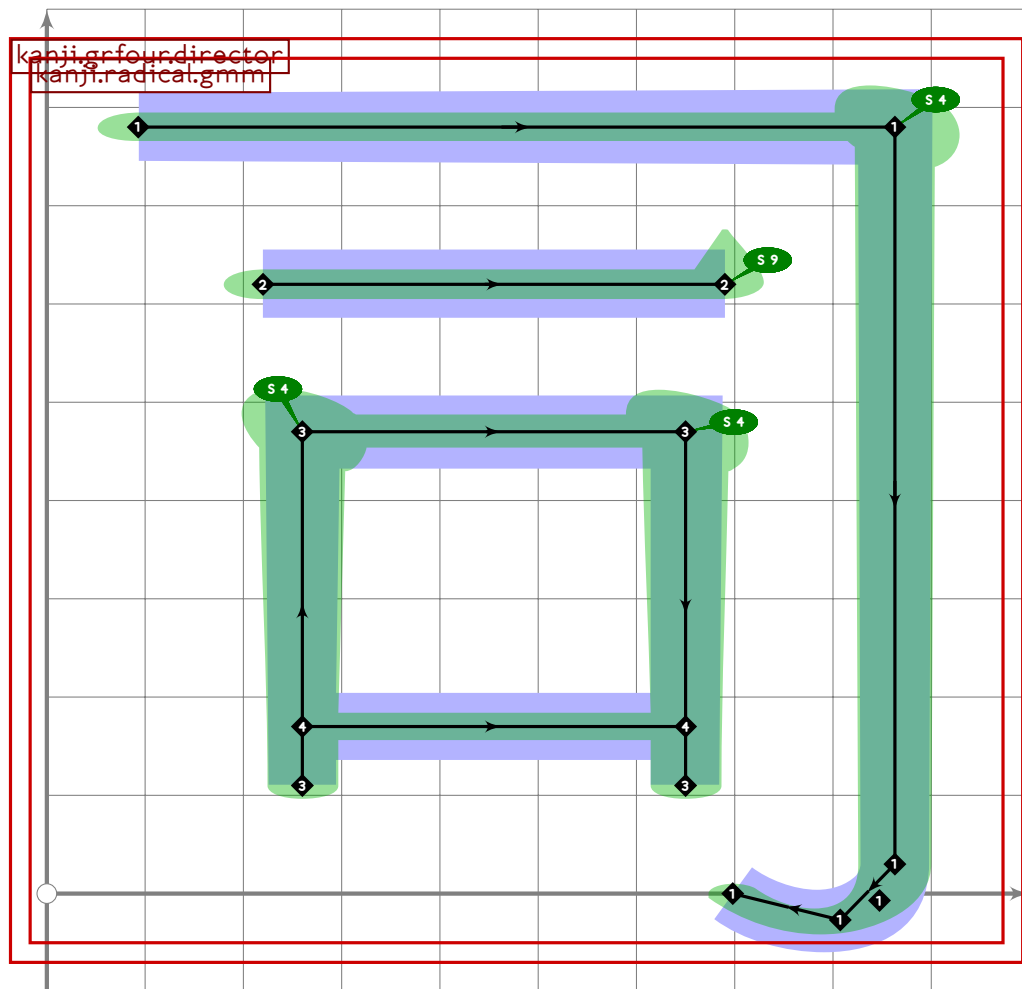
FOUR



```

155
156 vardef kanji.grfour.clothes =
157   push_pbox_toexpand("kanji.grfour.clothes");
158   build_kanji.level(build_kanji.tb(540,80)
159     (kanji.radical.kettle_lid)
160     (kanji.bottomrad.clothes));
161   expand_pbox;
162 enddef;

```



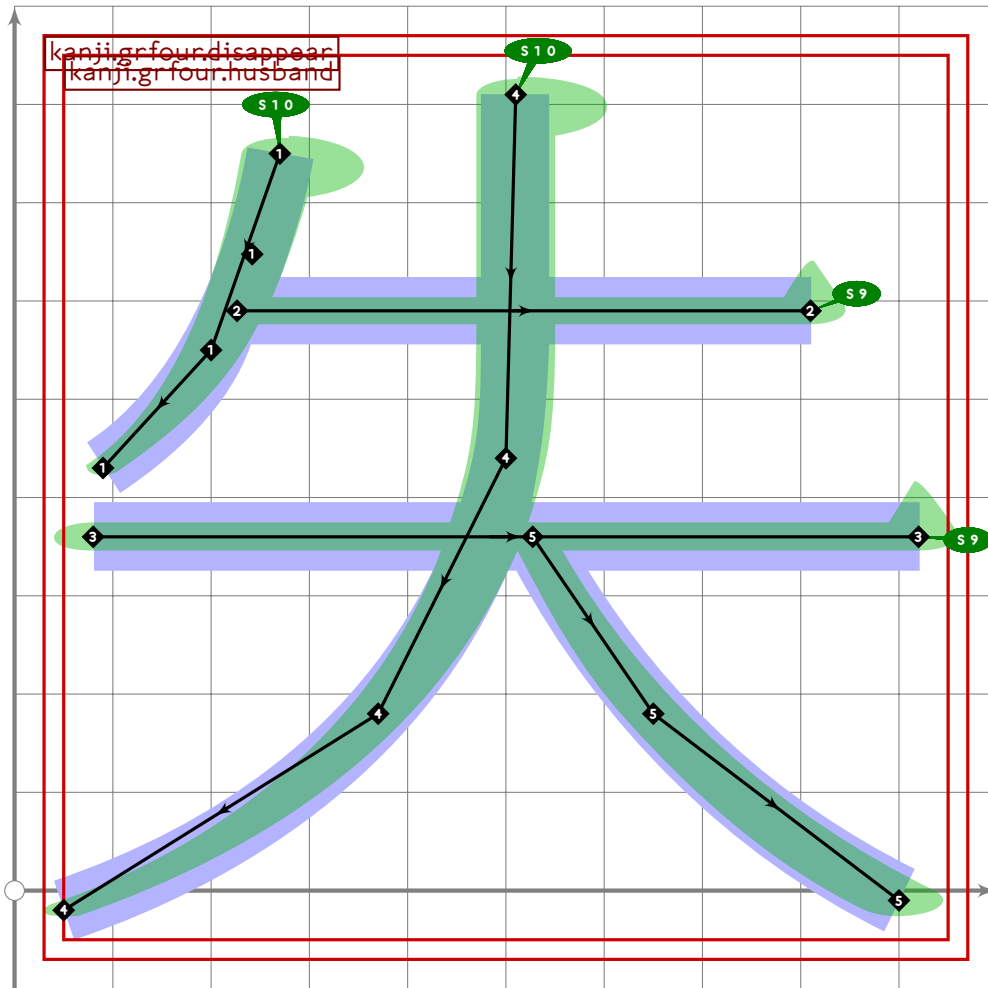
FOUR

```

163
164 vardef kanji.grfour.director =
165   push_pbox_toexpand("kanji.grfour.director");
166   build_kanji.sscale(shifted (-20,0) xscaled 1.1)
167   (kanji.radical.gmm);
168   replace_strokep(0)(subpath (2,infinity) of oldp);
169   replace_strokeq(0)(subpath (2,infinity) of oldq);
170   set_botip(0,1,4);
171   set_boserif(0,1,4);
172   set_botip(0,2,whatever);
173   set_boserif(0,2,whatever);
174   set_botip(0,3,whatever);
175   set_boserif(0,3,whatever);
176   push_stroke((220,620)-(690,620),
177   (1.6,1.6)-(1.6,1.6));
178   set_boserif(0,1,9);
179   build_kanji.box((260,470),(650,170));
180   expand_pbox;
181 enddef;

```

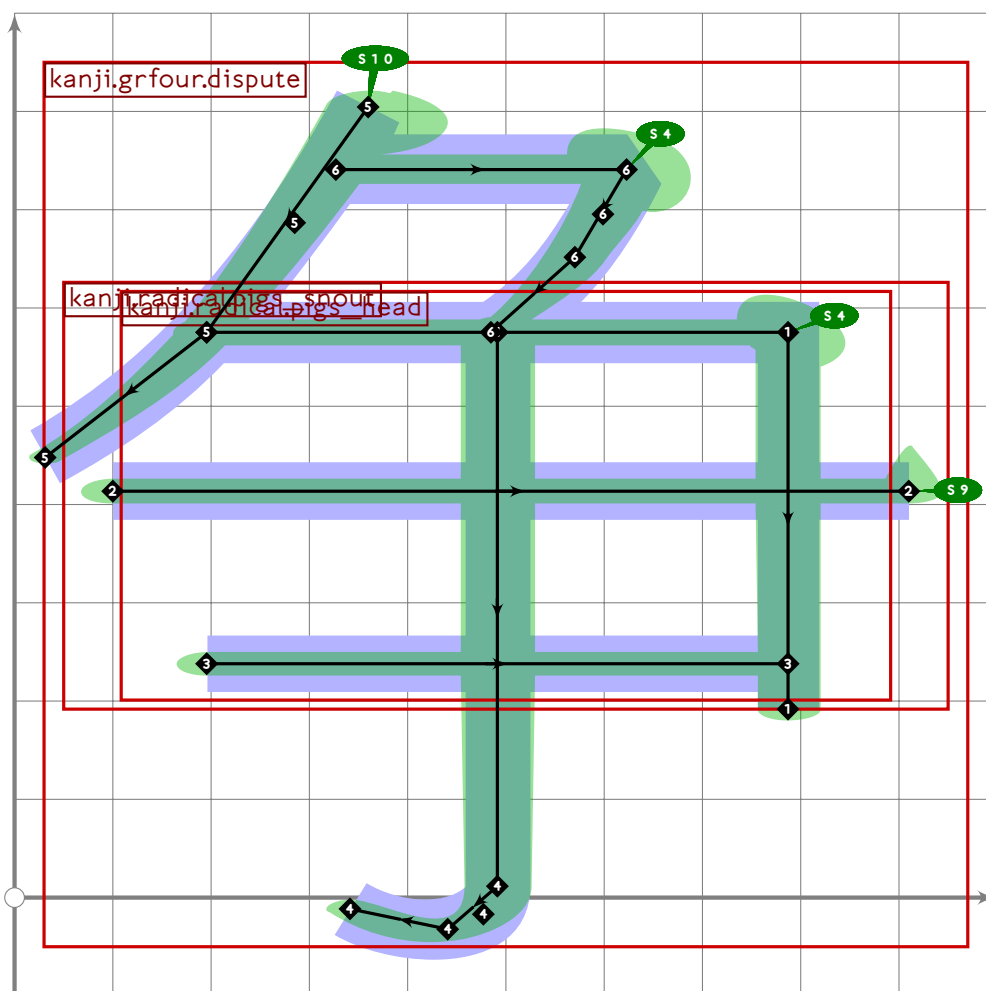
FOUR



```

182
183 vardef kanji.grfour.disappear =
184   push_pbox_toexpand("kanji.grfour.disappear");
185   push_stroke((270,750)..tension 1.2..(200,550)..(90,430),
186     (1.6,1.6)-(1.4,1.4)-(1,1));
187   set_boserif(0,0,10);
188   kanji.grfour.husband;
189   replace_stroke(-3)((100,590)-(810,590));
190   replace_stroke(-3)(subpath
191     (0.01*xpart (oldp intersectiontimes get_stroke(-4)),1) of oldp);
192   expand_pbox;
193 enddef;

```



FOUR

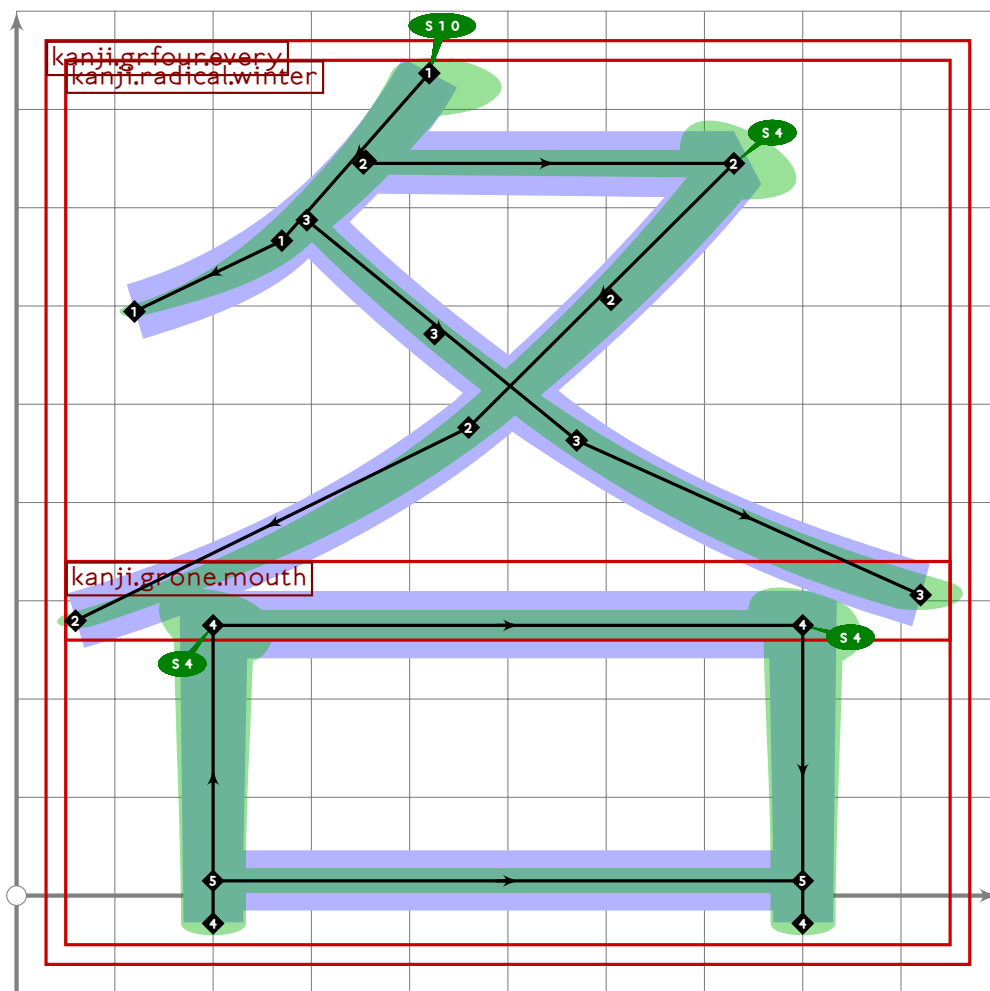
```

194
195 vardef kanji.grfour.dispute =
196   push_pbox_toexpand("kanji.grfour.dispute");
197   build_kanji.attach_fishhook(0.77)(
198     build_kanji.sscale(yscaled 0.6 shifted (0,150))
199     (kanji.radical.pigs_snout);
200     push_stroke((point 0.5 of get_stroke(-2)),((1.6,1.6)));
201     build_kanji.add_jtail(0));
202   expand_pbox;
203 enddef;

```

U+5404
tsuku.uni5404

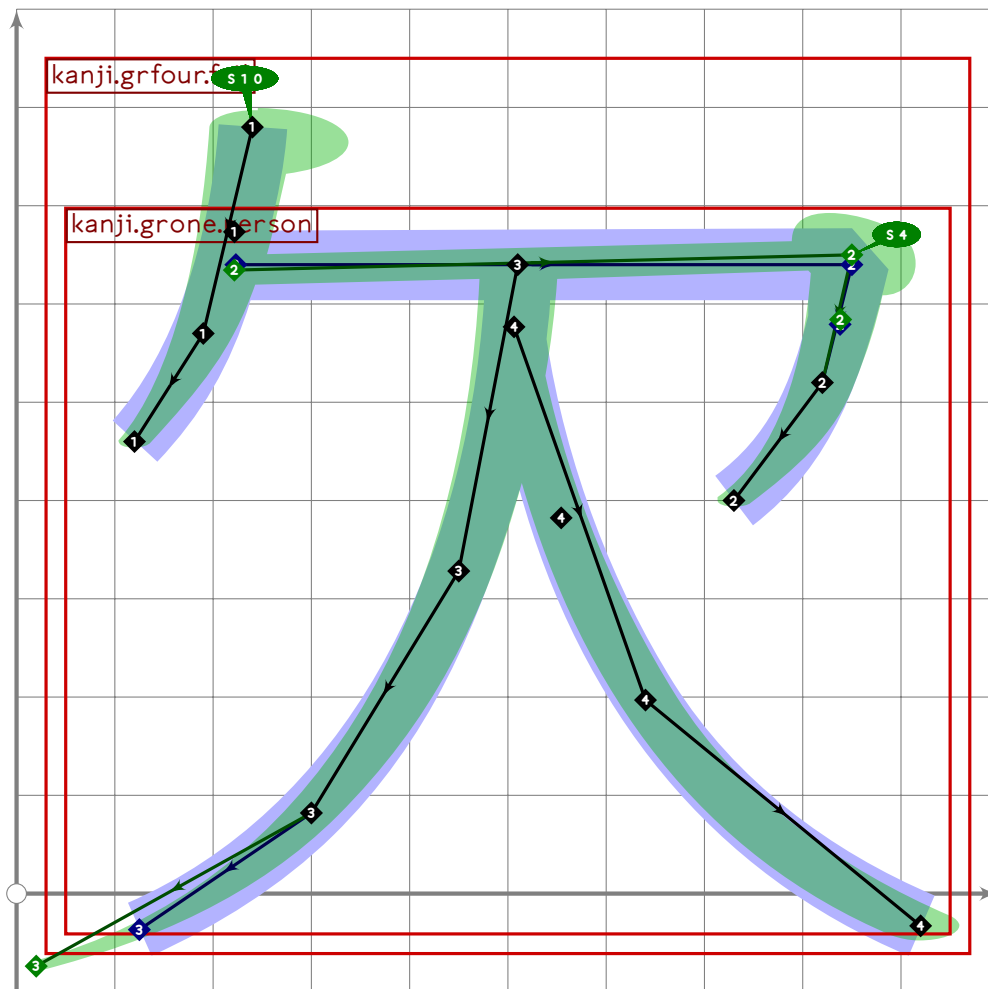
FOUR



```

204
205 vardef kanji.grfour.every =
206   push_pbox_toexpand("kanji.grfour.every");
207   build_kanji.level(build_kanji.tb(300,80)
208     (kanji.radical.winter)
209     (kanji.grone.mouth));
210   expand_pbox;
211 enddef;

```



FOUR

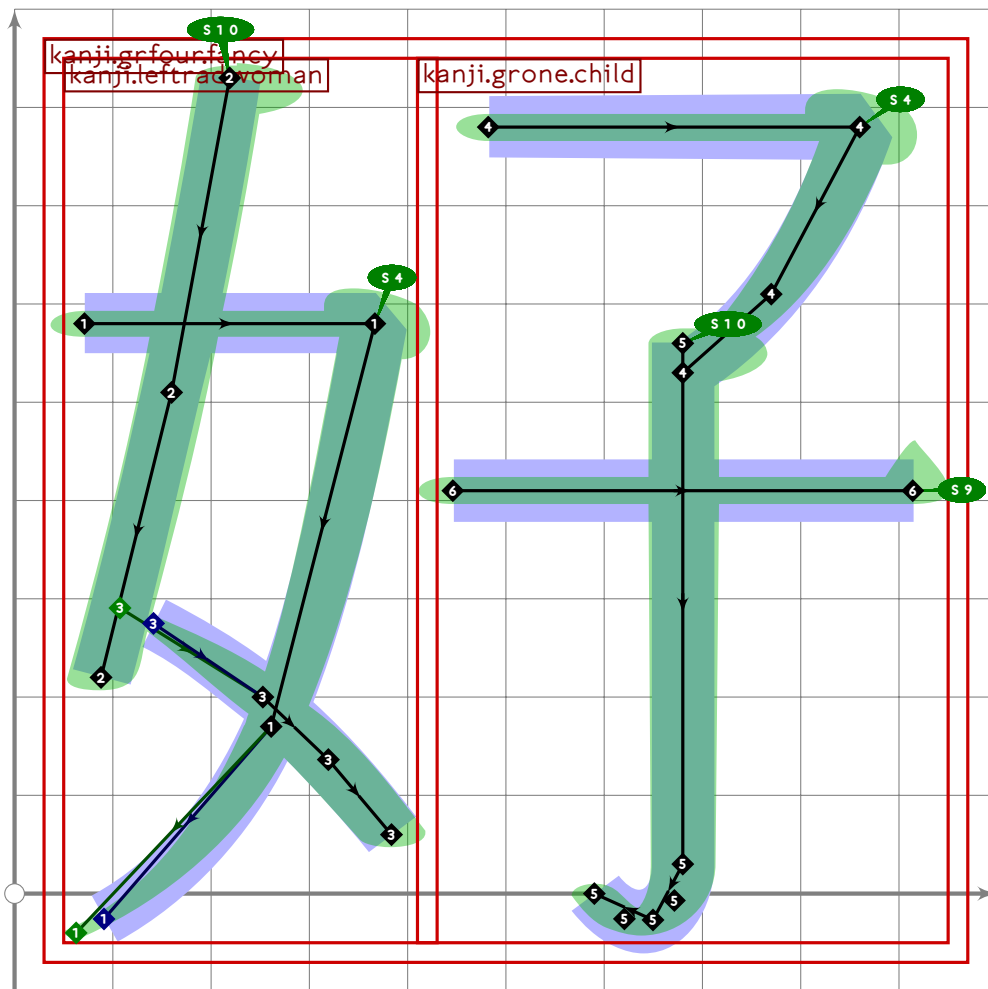
```

212
213 vardef kanji.grfour.fail =
214   push_pbox_toexpand("kanji.grfour.fail");
215   push_stroke((240,780)..tension 1.2..(190,570)..(120,460),
216     (1,7,1,7)-(1,4,1,4)-(1,1));
217   set_boserif(0,0,10);
218   push_stroke(
219     ((get_strokep(0) intersectionpoint
220       ((0,640-7*mincho)-(1000,640))+(10,0)))--
221     ((850,640)+mincho*(0,10))..tension 1.2..(820,520)..(730,400),
222     (1,6,1,6)-(1,6,1,6)-(1,4,1,4)-(1,1));
223   set_boserif(0,1,4);
224   set_botip(0,1,0);
225   tsu_xform(identity yscaled (640/780))(kanji.grone.person);
226   set_boserif(-1,0,whatever);
227   expand_pbox;
228 enddef;

```

U+597D
tsuku.uni597D

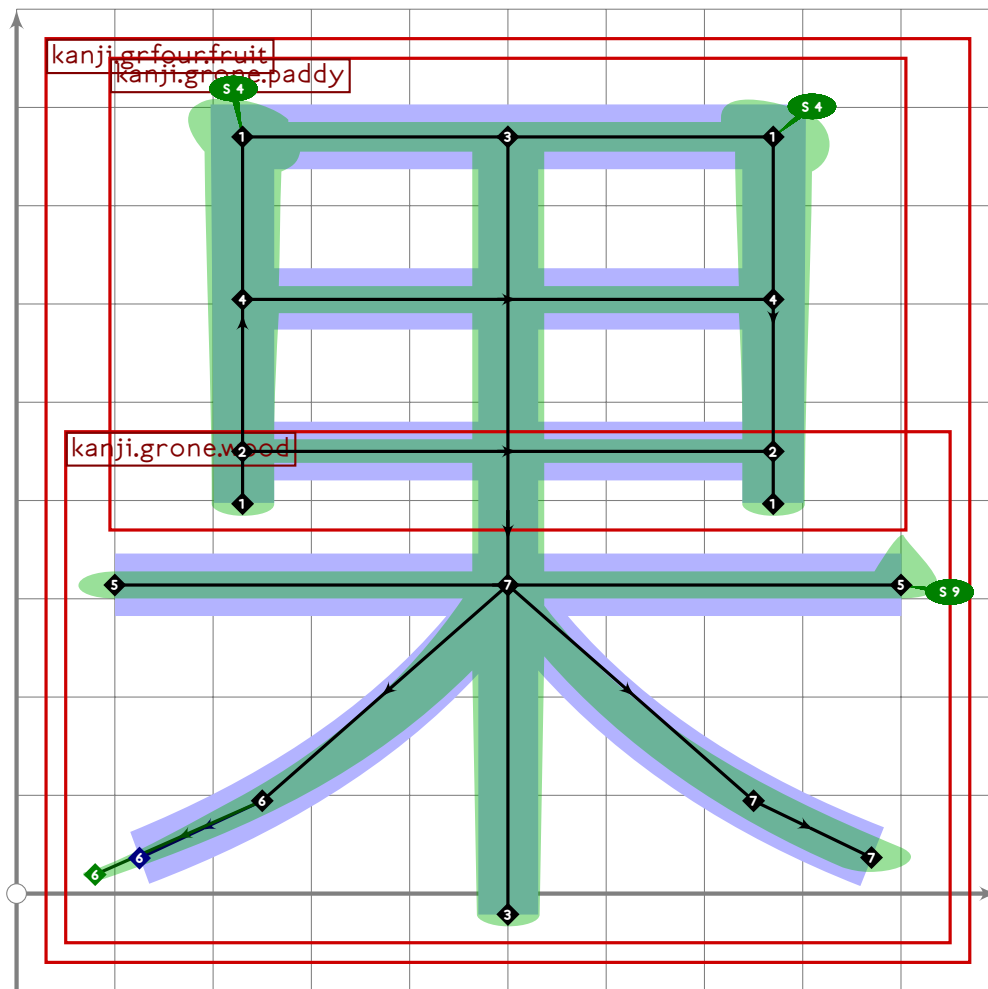
FOUR



```

229
230 vardef kanji.grfour.fancy =
231   push_pbox_toexpand("kanji.grfour.fancy");
232   build_kanji.lr(420,20)
233     (kanji.leftrad.woman)
234     (kanji.grone.child);
235   expand_pbox;
236 enddef;

```

FOUR

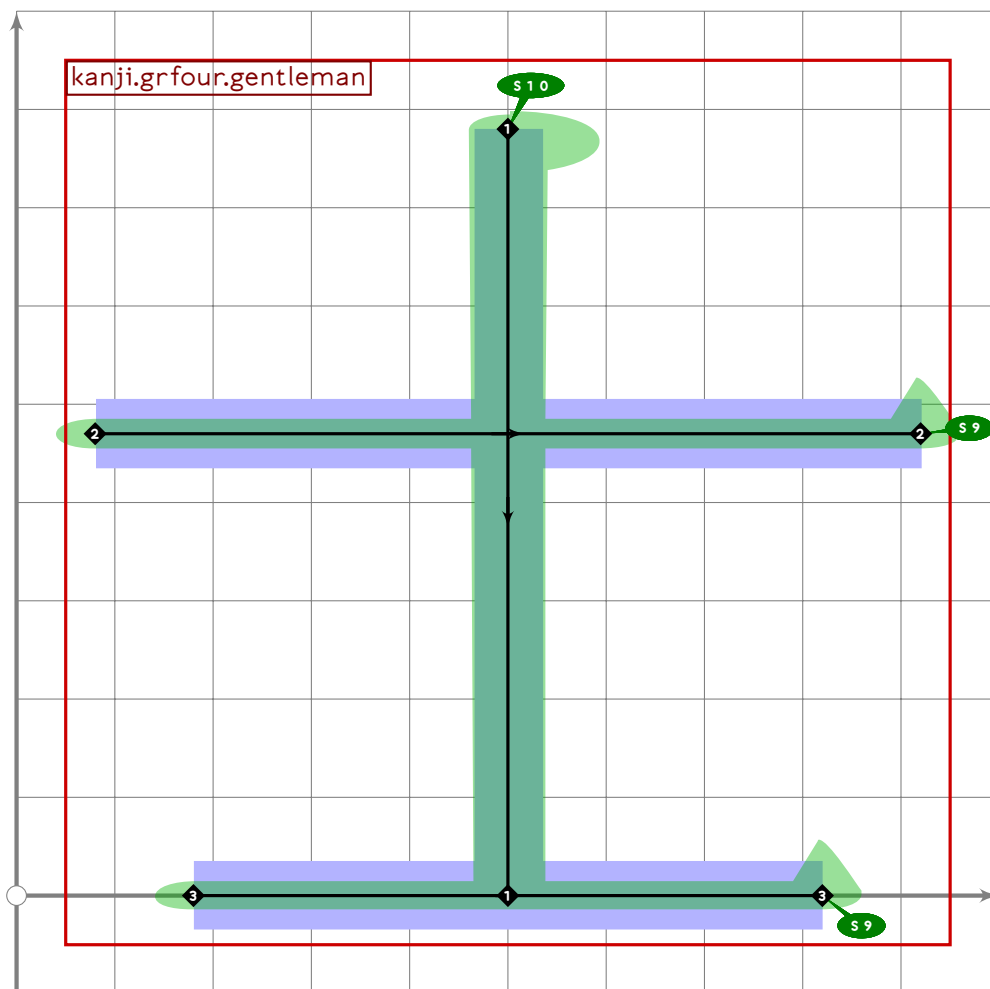
```

237
238 vardef kanji.grfour.fruit =
239   push_pbox_toexpand("kanji.grfour.fruit");
240   build_kanji.tb(420,100)
241     (build_kanji.sscale(xscaled 0.9)(kanji.grone.paddy))
242     (kanji.grone.wood);
243   replace_stroke(-5)
244     ((point 0 of oldp)-(point infinity of get_stroke(-3)));
245   obstacktype[find_whatsoever(otstroke,3)]:=otnull;
246   expand_pbox;
247 enddef;

```

U+58EB
tsuku.uni58EB

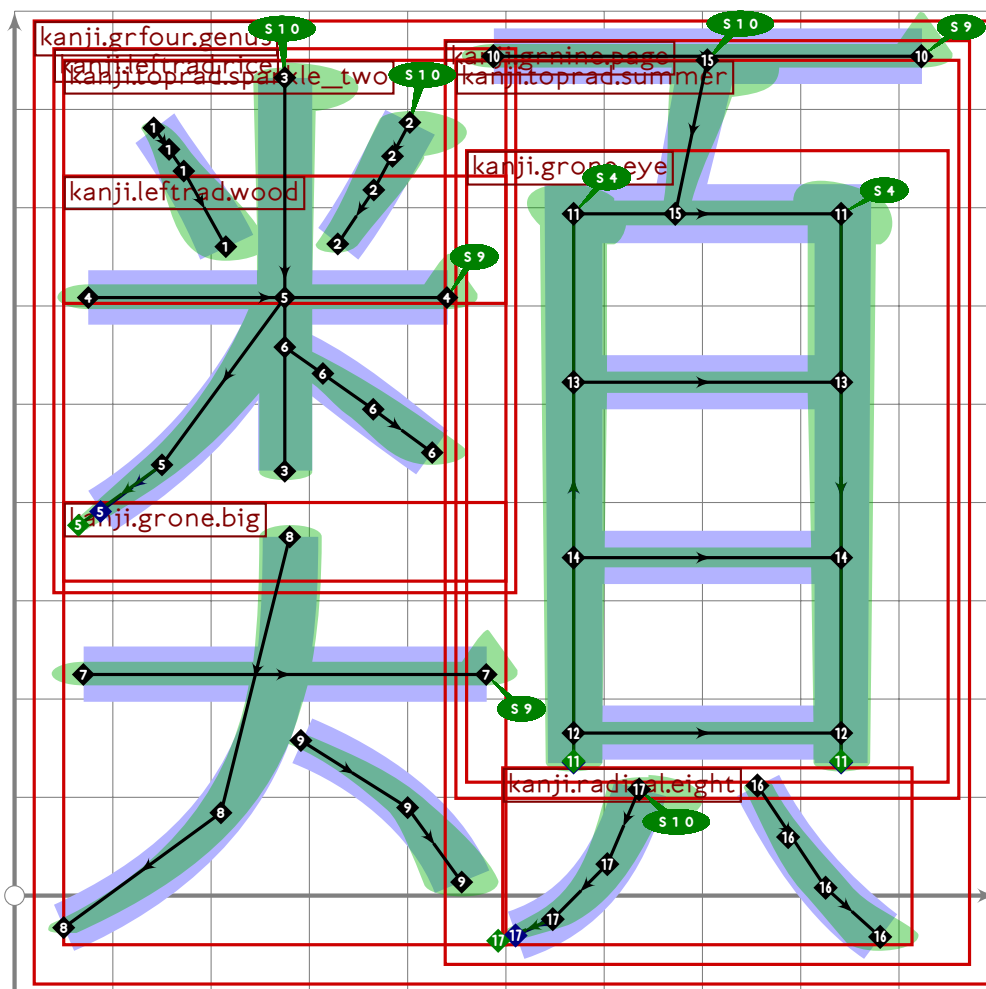
FOUR



```

248
249 vardef kanji.grfour.gentleman =
250   push_pbox_toexpand("kanji.grfour.gentleman");
251   push_stroke((500,780)–(500,0),
252     (1.6,1.6)–(1.5,1.5));
253   set_boserif(0,0,10);
254   push_stroke((80,470)–(920,470),
255     (1.6,1.6)–(1.6,1.6));
256   set_boserif(0,1,9);
257   push_stroke((180,0)–(820,0),
258     (1.6,1.6)–(1.6,1.6));
259   set_boserif(0,1,9);
260   expand_pbox;
261 enddef;

```



FOUR

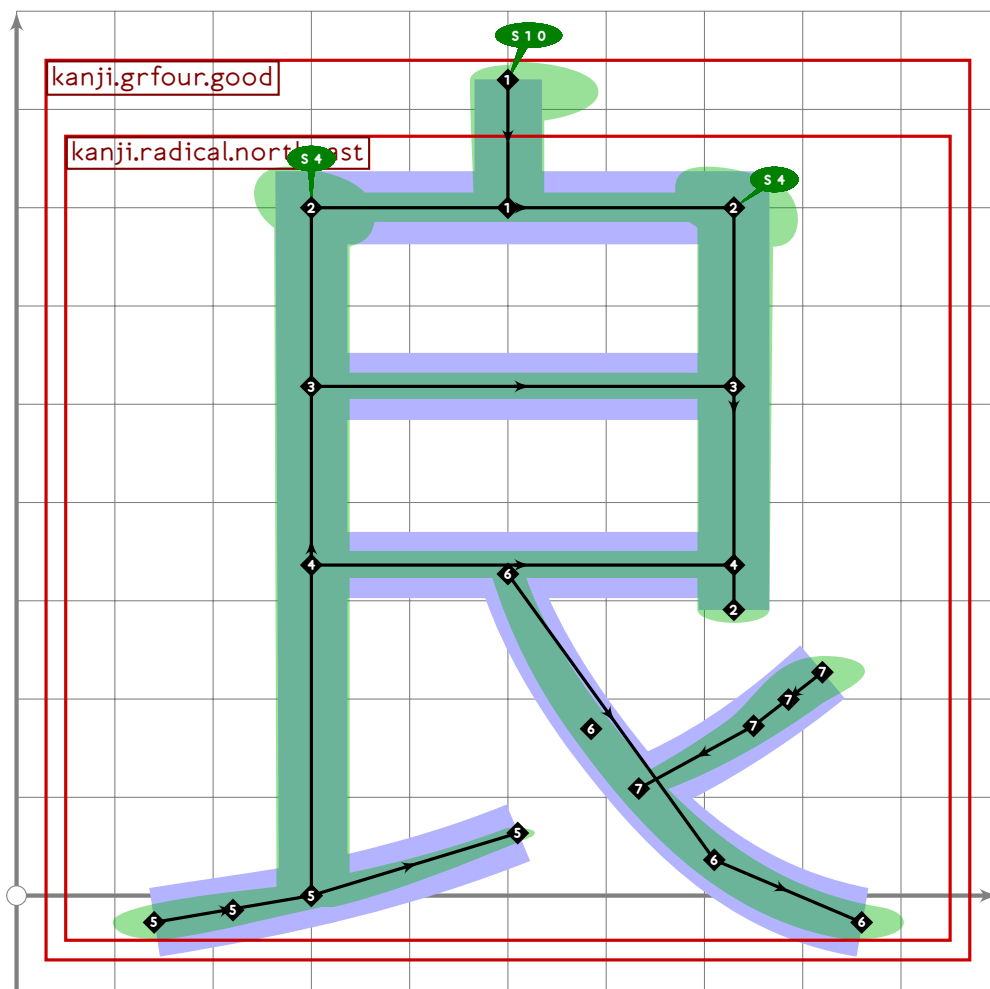
```

262
263 vardef kanji.grfour.genus =
264   push_pbox_toexpand("kanji.grfour.genus");
265   build_kanji.level(build_kanji.lr(480,40)
266     (build_kanji.lift_skirt(200,40)(build_kanji.tb(360,80)
267       (kanji.leftrad.rice;
268         replace_stroke(-3)(subpath (0,0.8) of oldp))
269       (kanji.leftrad.big)))
270     (kanji.grnine.page));
271   expand_pbox;
272 enddef;

```

U+826F
tsuku.uni826F

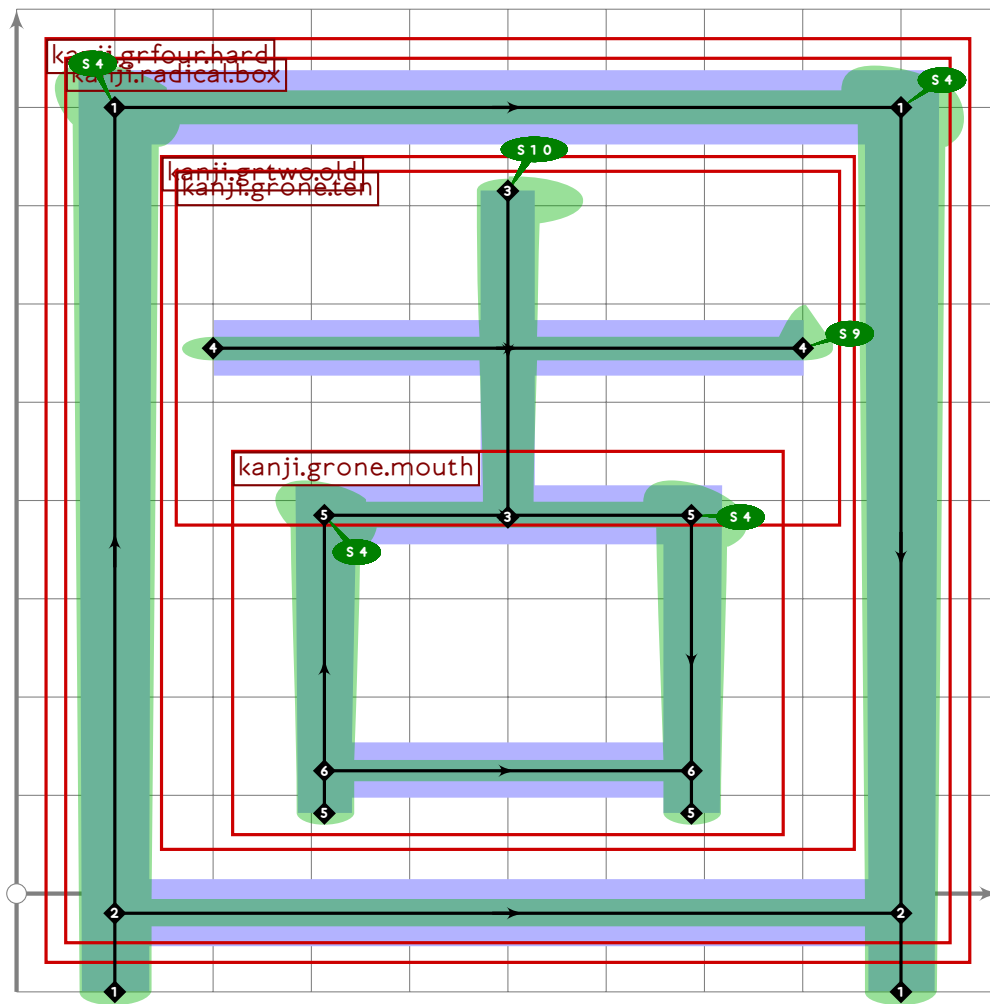
FOUR



```

273
274 vardef kanji.grfour.good =
275   push_pbox_toexpand("kanji.grfour.good");
276   build_kanji.level(
277     push_stroke((500,830)-(500,700),(1.6,1.6)-(1.5,1.5));
278     set_boserif(0,0,10);
279     tsu_xform(identity yscaled (700/770))(kanji.radical.northeast));
280   expand_pbox;
281 enddef;

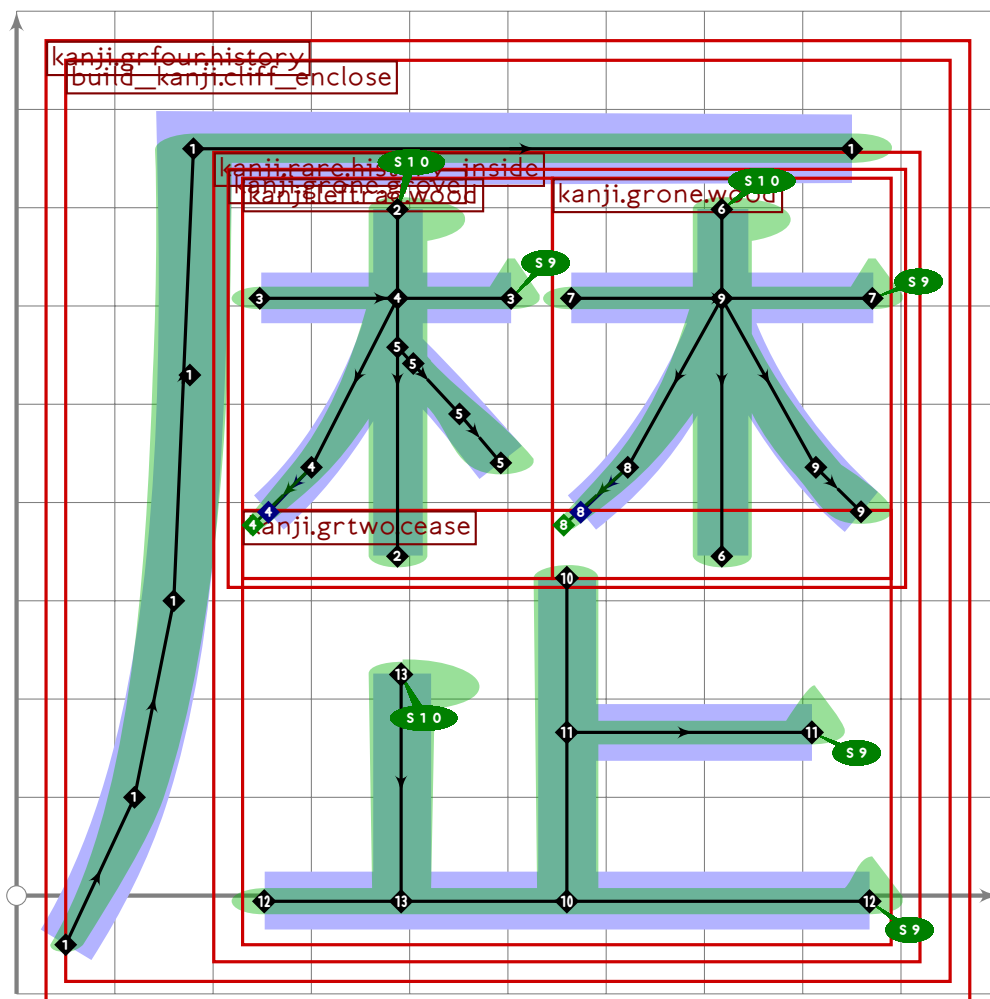
```



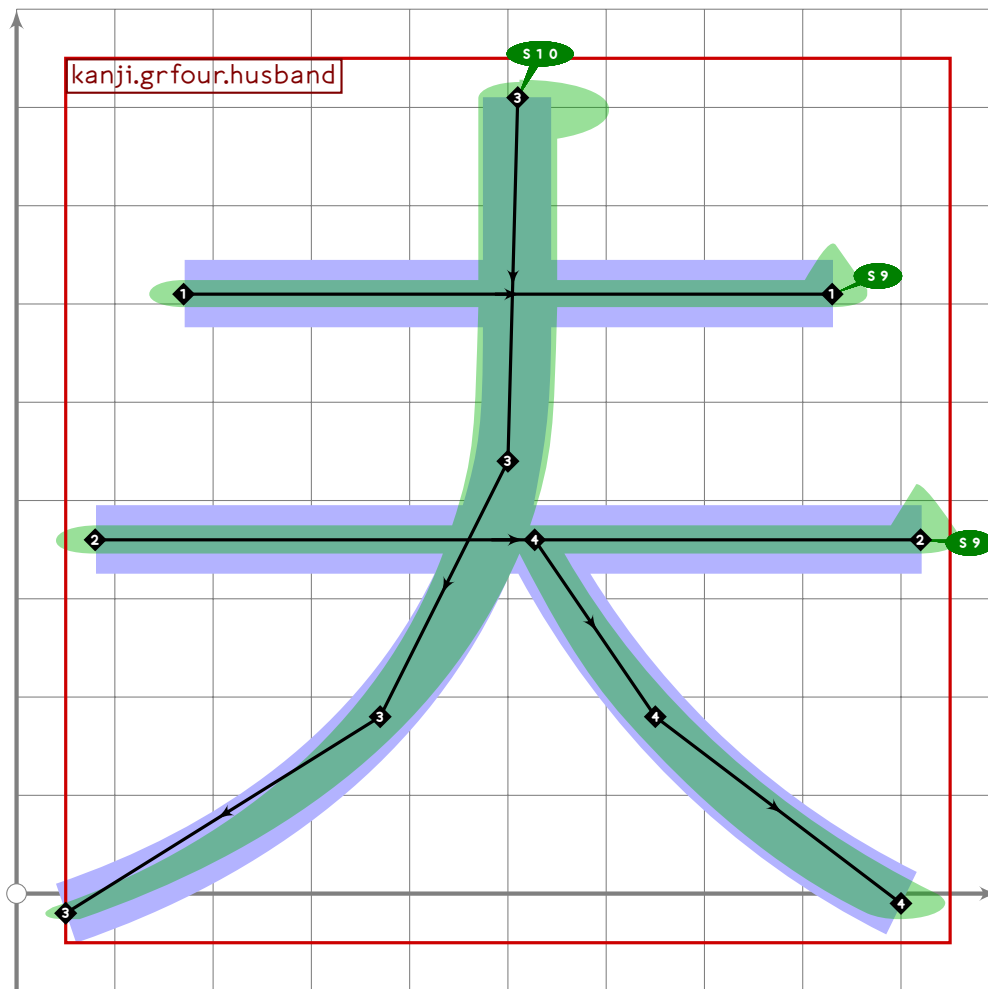
```

282
283 vardef kanji.grfour.hard =
284   push_pbox_toexpand("kanji.grfour.hard");
285   kanji.radical.box;
286   build_kanji.sscale(scaled 0.75)(kanji.grtwo.old);
287   expand_pbox;
288 enddef;

```



620

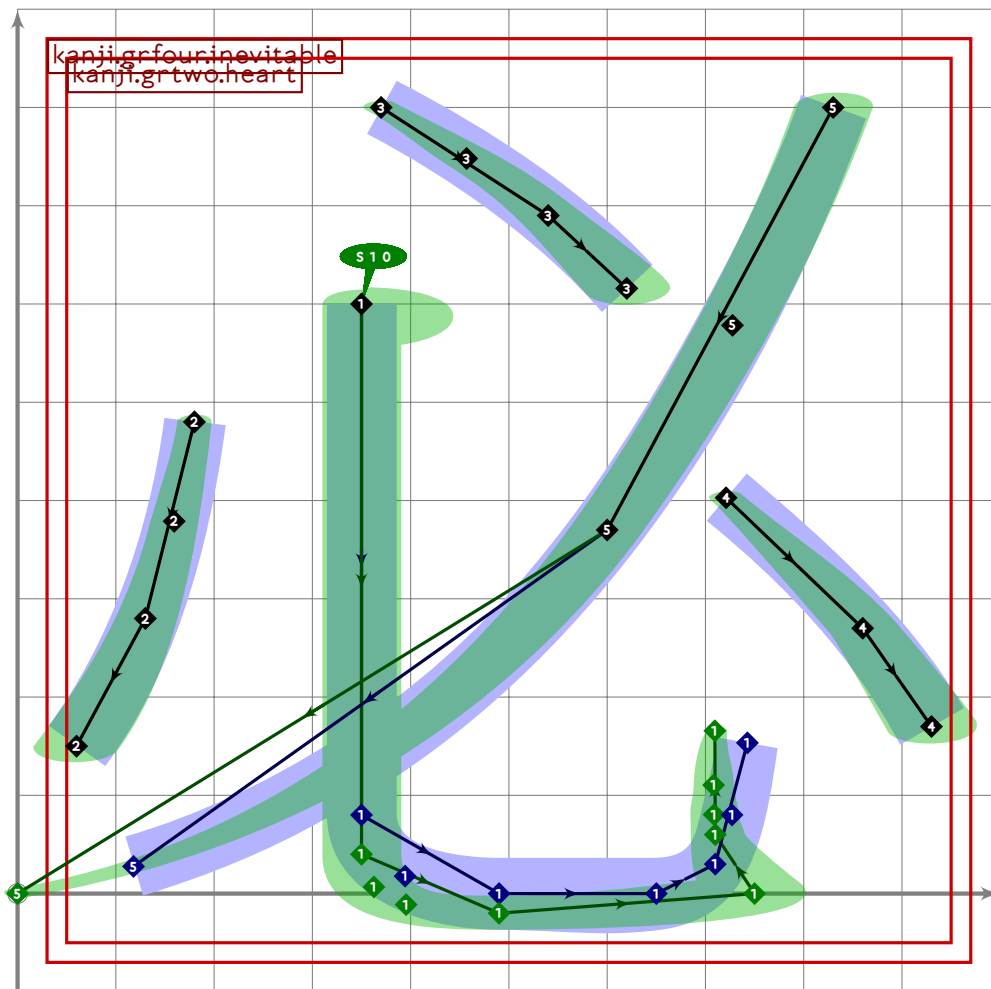


FOUR

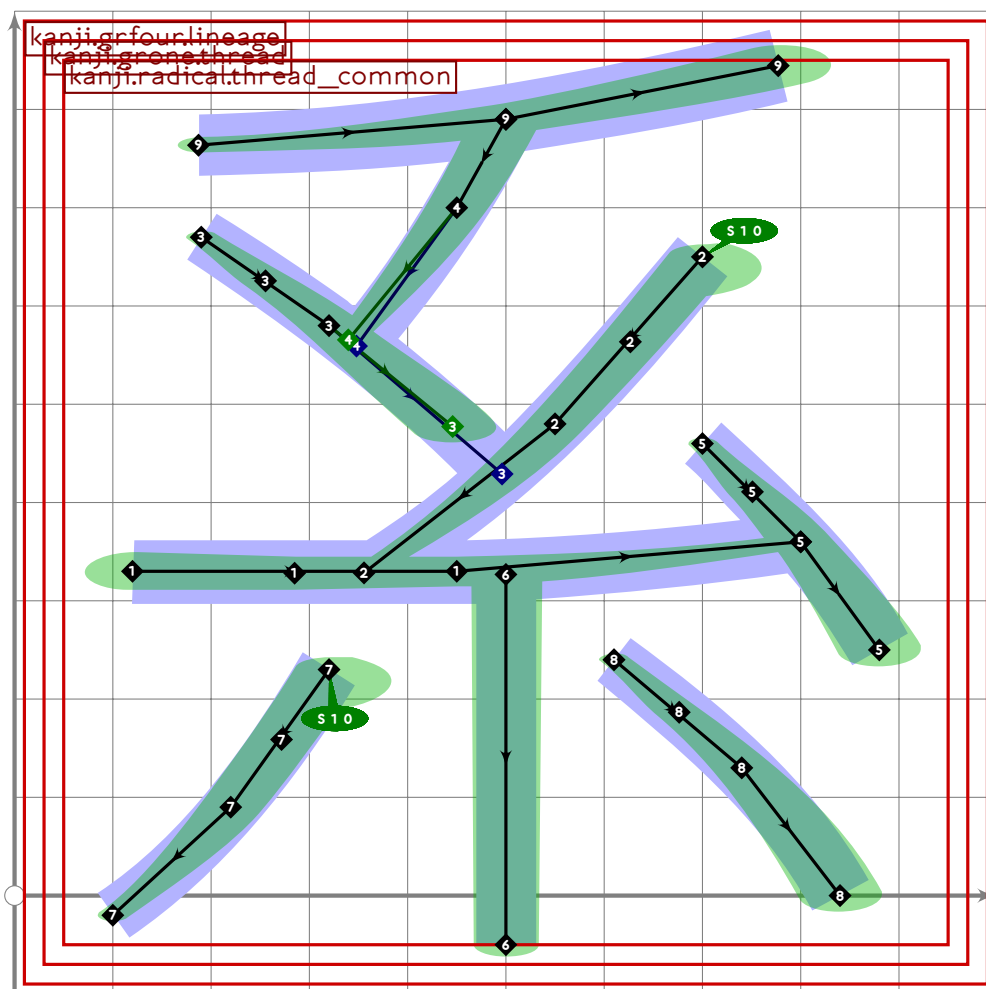
```

300
301 vardef kanji.grfour.husband =
302   push_pbox_toexpand("kanji.grfour.husband");
303   push_stroke((170,610)–(830,610),
304     (1.5,1.5)–(1.5,1.5));
305   set_boserif(0,1,9);
306   push_stroke((80,360)–(920,360),
307     (1.6,1.6)–(1.6,1.6));
308   set_boserif(0,1,9);
309   push_stroke((510,810){down}..(500,440)..(370,180)..{curl 0.5}(50,-20),
310     (1.6,1.6)–(1.6,1.6)–(1.4,1.4)–(1.1,1.1));
311   set_boserif(0,0,10);
312   push_stroke(((get_strokep(-1) intersectionpoint get_strokep(0))+(50,0))..
313     (650,180)..(900,-10),
314     (1.1,1.1)–(1.4,1.4)–(1.7,1.7));
315   expand_pbox;
316 enddef;

```



622



FOUR

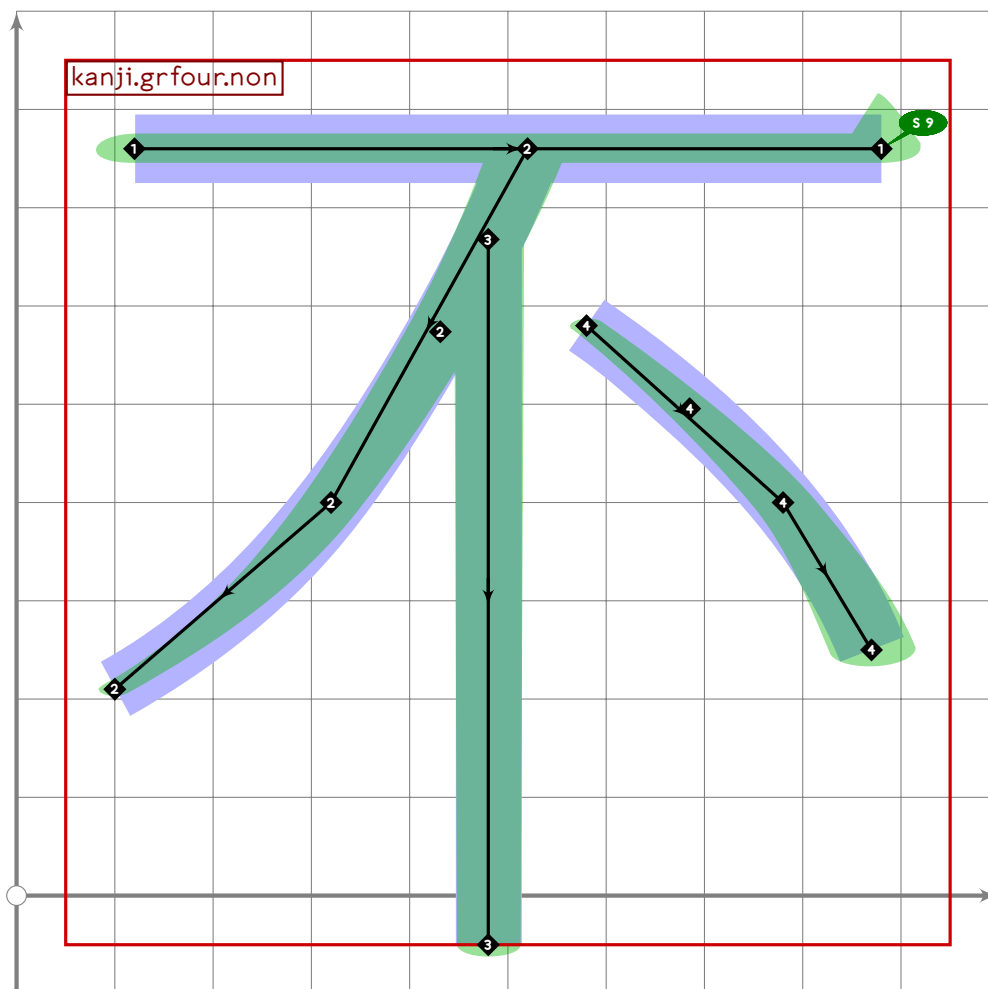
```

327
328 vardef kanji.grfour.lineage =
329   push_pbox_toexpand("kanji.grfour.lineage");
330   build_kanji.add_beret(kanji.grone.thread);
331   expand_pbox;
332 enddef;

```

U+4E0D
tsuku.uni4E0D

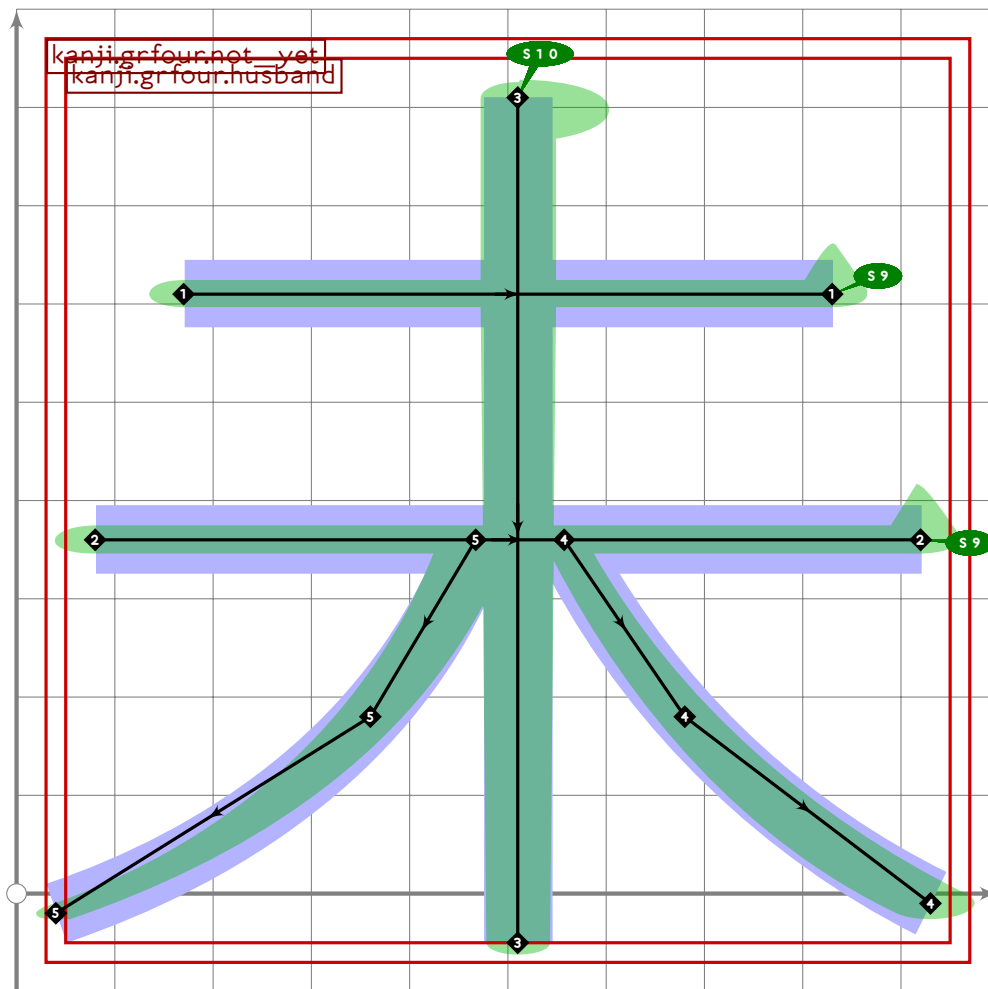
FOUR



```

333
334 vardef kanji.grfour.non =
335   push_pbox_toexpand("kanji.grfour.non");
336   push_stroke((120,760)-(880,760),(1.6,1.6)-(1.6,1.6));
337   set_boserif(0,1,9);
338   push_stroke((520,760)..tension 1.2..(320,400)..(100,210),
339     (1.6,1.6)-(1.4,1.4)-(1,1));
340   push_stroke((((480,1000)-(480,0)) intersectionpoint get_strokep(0))-
341     (480,-50),
342     (1.5,1.5)-(1.4,1.4));
343   push_stroke((580,580)..tension 1.2..(780,400)..(870,250),
344     (1,1)-(1.4,1.4)-(1.7,1.7));
345   expand_pbox;
346 enddef;

```



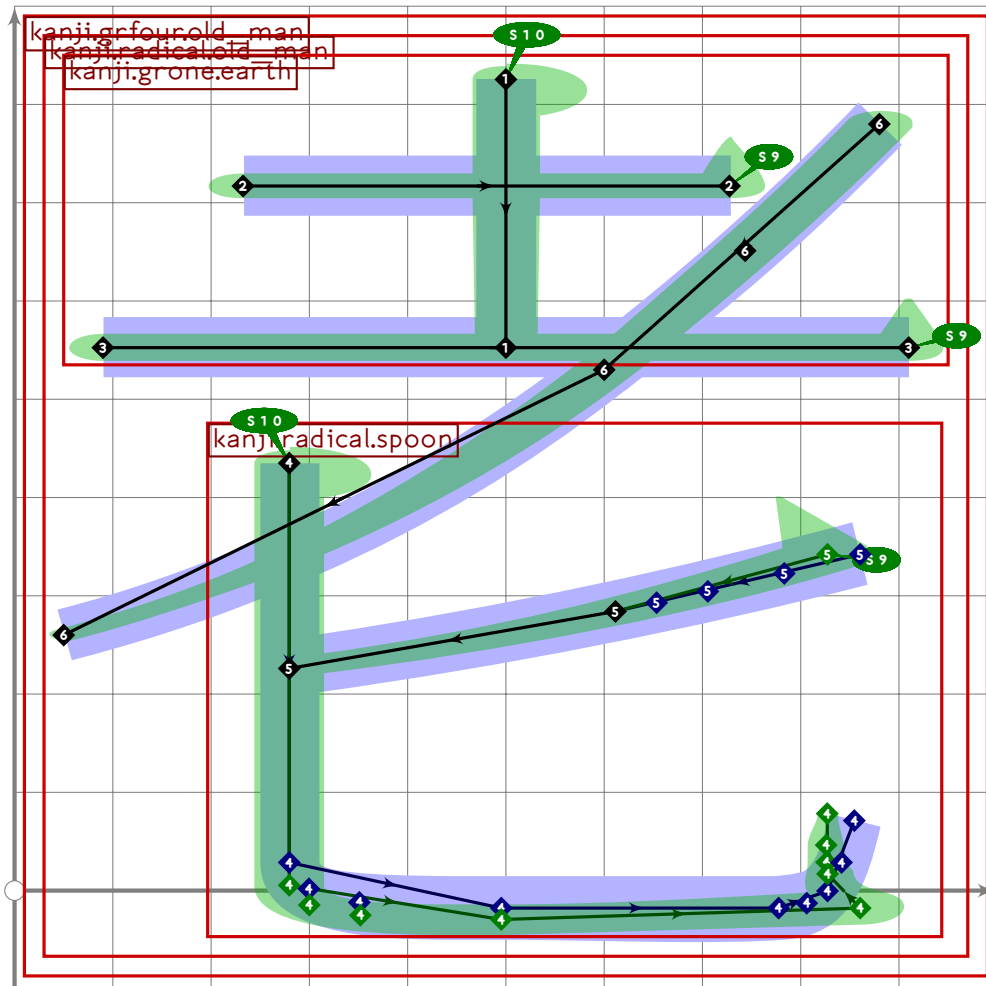
FOUR

```

347
348 vardef kanji.grfour.not_yet =
349   push_pbox_toexpand("kanji.grfour.not_yet");
350   kanji.grfour.husband;
351   begingroup
352     save it;
353     numeric it;
354     it:=xpart (get_strokep(-1) intersectiontimes get_strokep(-2));
355     push_stroke(subpath (it,infinity) of get_strokep(-1) shifted (-10,0),
356       subpath(it,infinity) of get_strokeq(-1));
357   endgroup;
358   replace_strokep(-2)((510,810)-(510,-50));
359   replace_strokeq(-2)((1,6,1,6)-(1,4,1,4));
360   replace_strokep(-1)(oldp shifted (30,0));
361   expand_pbox;
362 enddef;

```

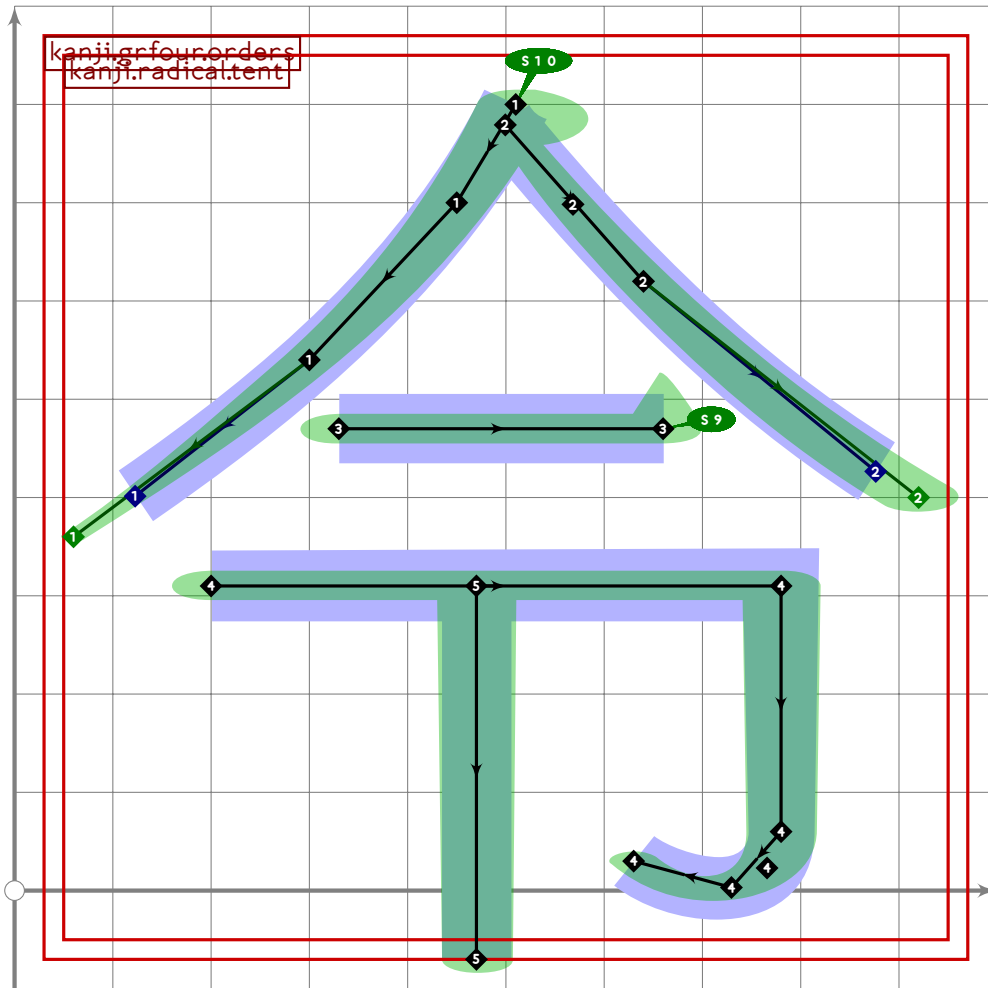
FOUR



```

363
364 vardef kanji.grfour.old_man =
365   push_pbox_toexpand("kanji.grfour.old_man");
366   kanji.radical.old_man(
367     build_kanji.sscale(xyscaled (0.83,1.1) shifted (70,50))
368     (kanji.radical.spoon));
369   expand_pbox;
370 enddef;

```



FOUR

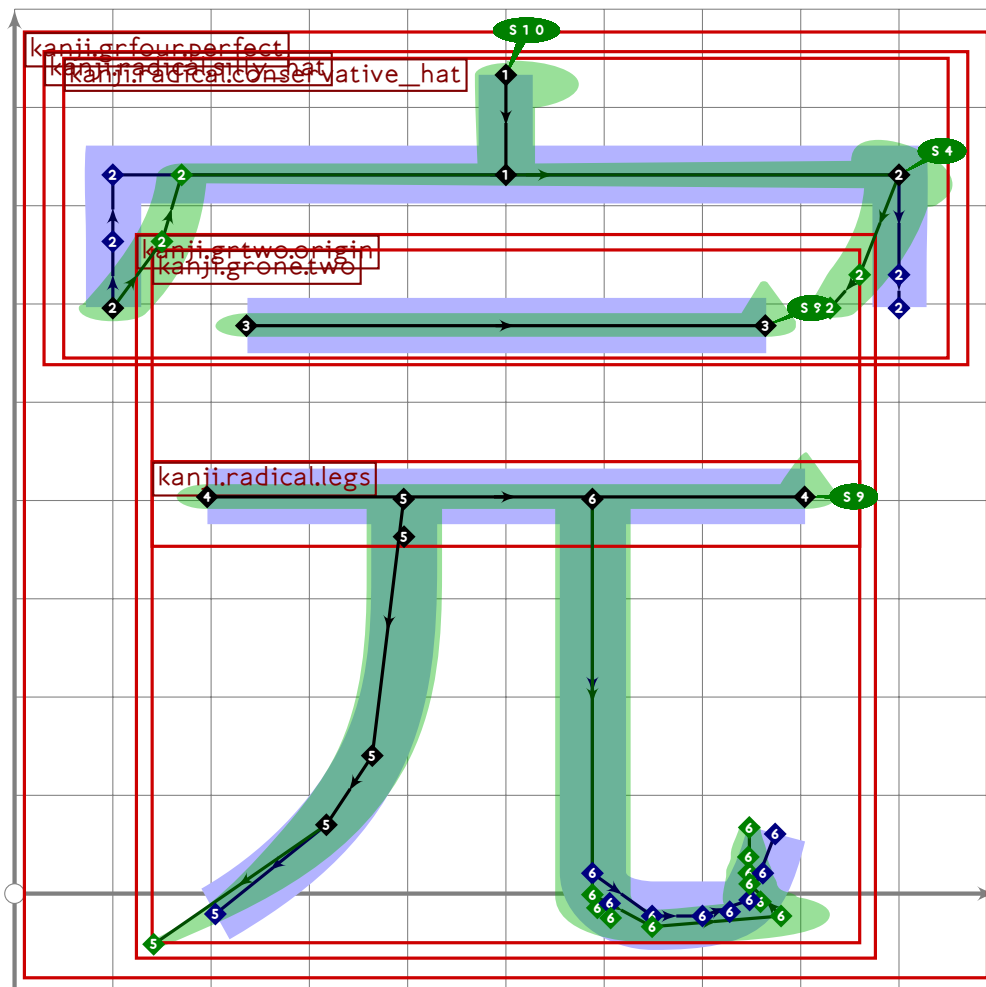
```

371
372 vardef kanji.grfour.orders =
373   push_pbox_toexpand("kanji.grfour.orders");
374   kanji.radical.tent;
375   push_stroke((200,280)-(780,280),(1.6,1.6)-(1.6,1.6));
376   build_kanji.add_jtail(0);
377   set_botip(0,1,1);
378   replace_stroke(0)(oldp shifted (0,30));
379   push_stroke((470,310)-(470,70),(1.6,1.6)-(1.5,1.5));
380   expand_pbox;
381 enddef;

```

U+5B8C
tsuku.uni5B8C

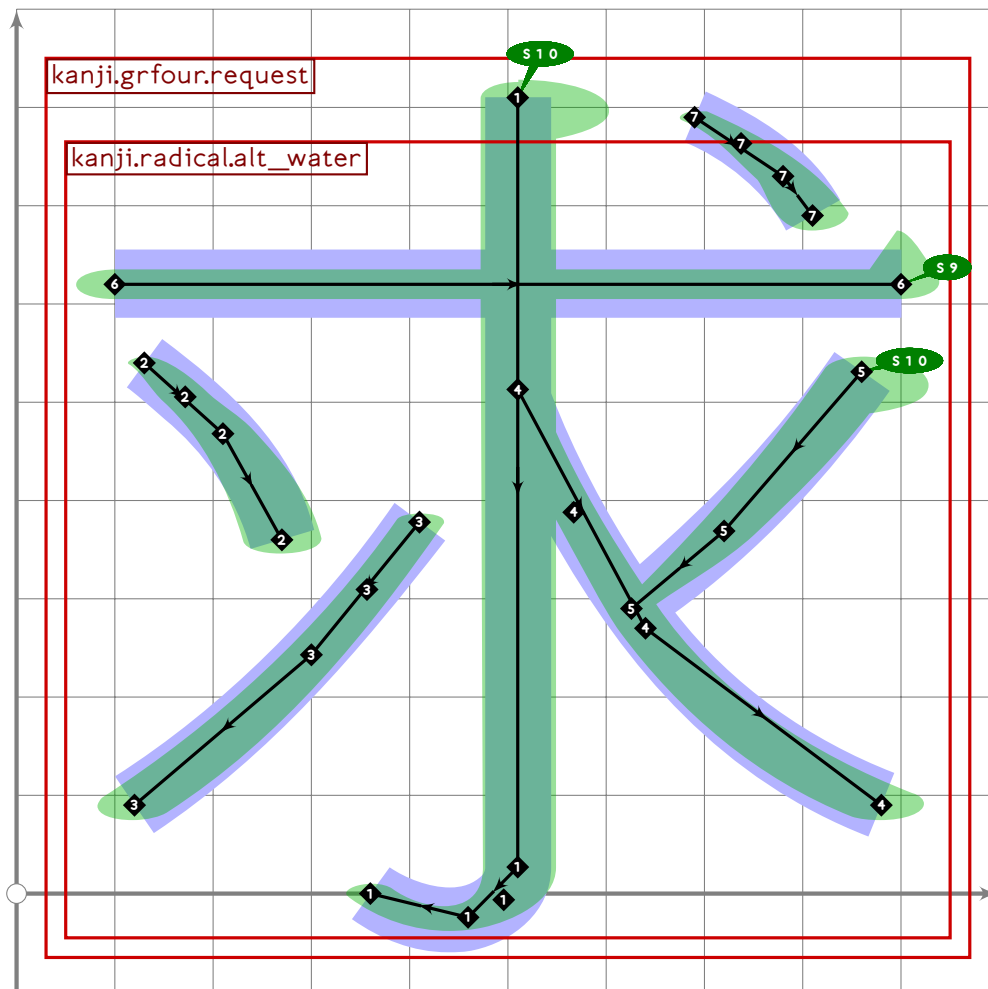
FOUR



```

382
383 vardef kanji.grfour.perfect =
384   push_pbox_toexpand("kanji.grfour.perfect");
385   build_kanji.tb(600,110)
386     (kanji.radical.silly_hat)
387     (build_kanji.sscale(xscaled 0.8)(kanji.grtwo.origin));
388   expand_pbox;
389 enddef;

```



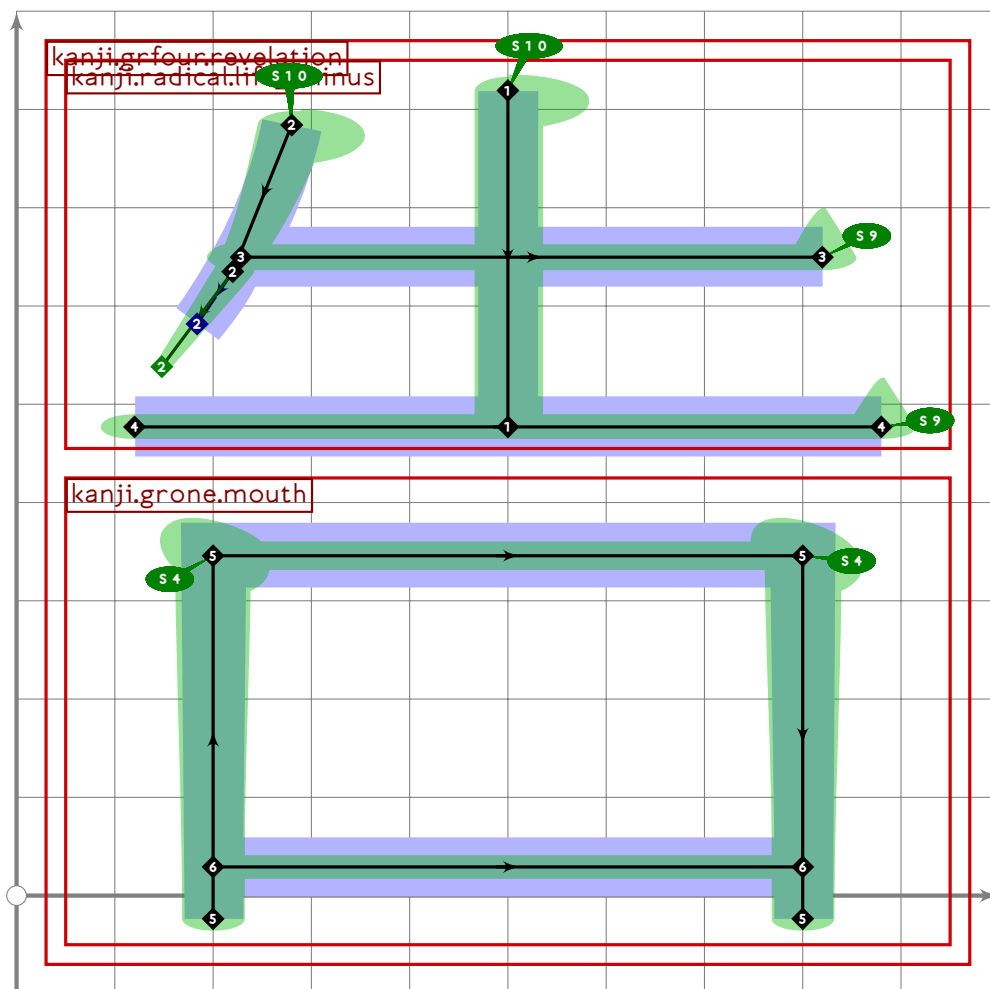
FOUR

```

390
391 vardef kanji.grfour.request =
392   push_pbox_toexpand("kanji.grfour.request");
393   tsu_xform(identity yscaled 0.9)(kanji.radical.alt_water);
394   replace_strokep(-4)((510,810)-(subpath (1,infinity) of oldp));
395   push_stroke((100,620)-(900,620),(1.6,1.6)-(1.6,1.6));
396   set_boserif(0,1,9);
397   push_stroke((690,790)..tension 1.2..(780,730)..(810,690),
398     (1,1)-(1.4,1.4)-(1.6,1.6));
399   set_bosize(0,90);
400   expand_pbox;
401 enddef;

```

U+544A
tsuku.uni544A

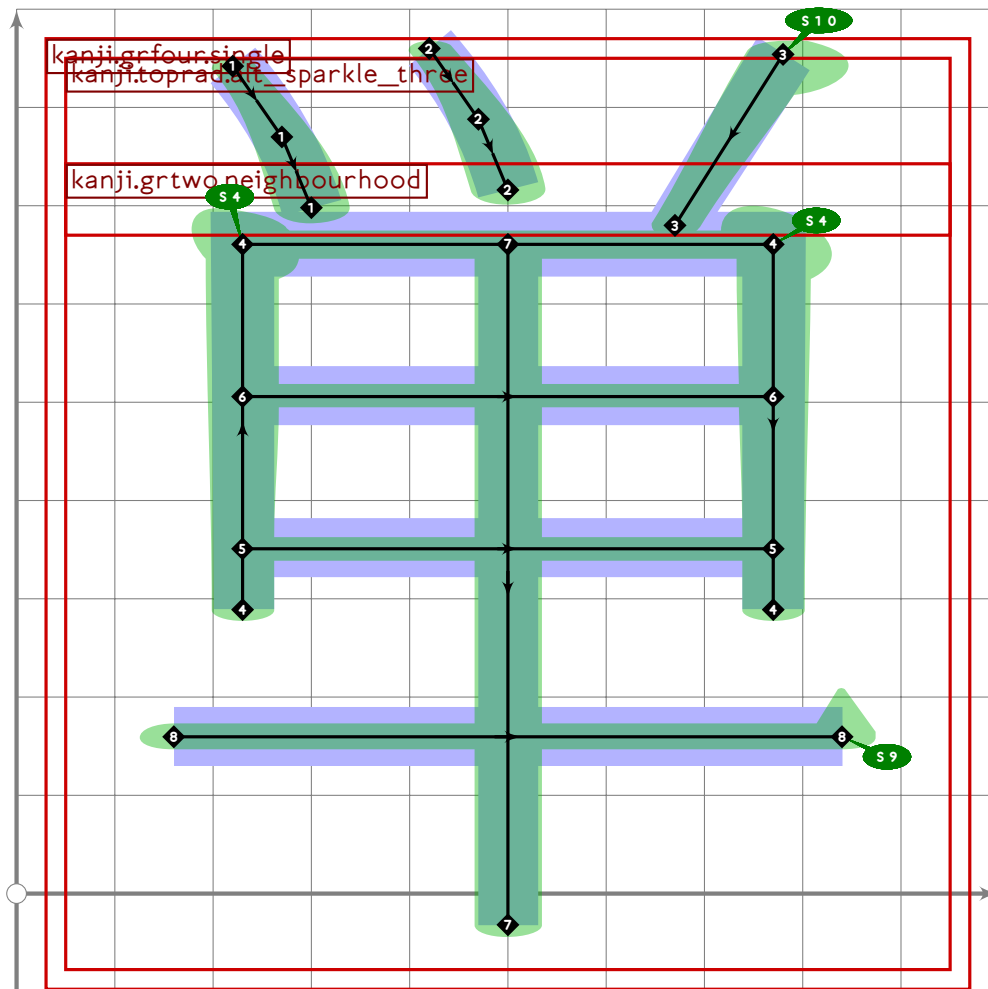


FOUR

```

402
403 vardef kanji.grfour.revelation =
404   push_pbox_toexpand("kanji.grfour.revelation");
405   build_kanji.level(build_kanji.tb(440,-30)
406     (kanji.radical.life_minus)
407     (kanji.grone.mouth));
408   expand_pbox;
409 enddef;

```

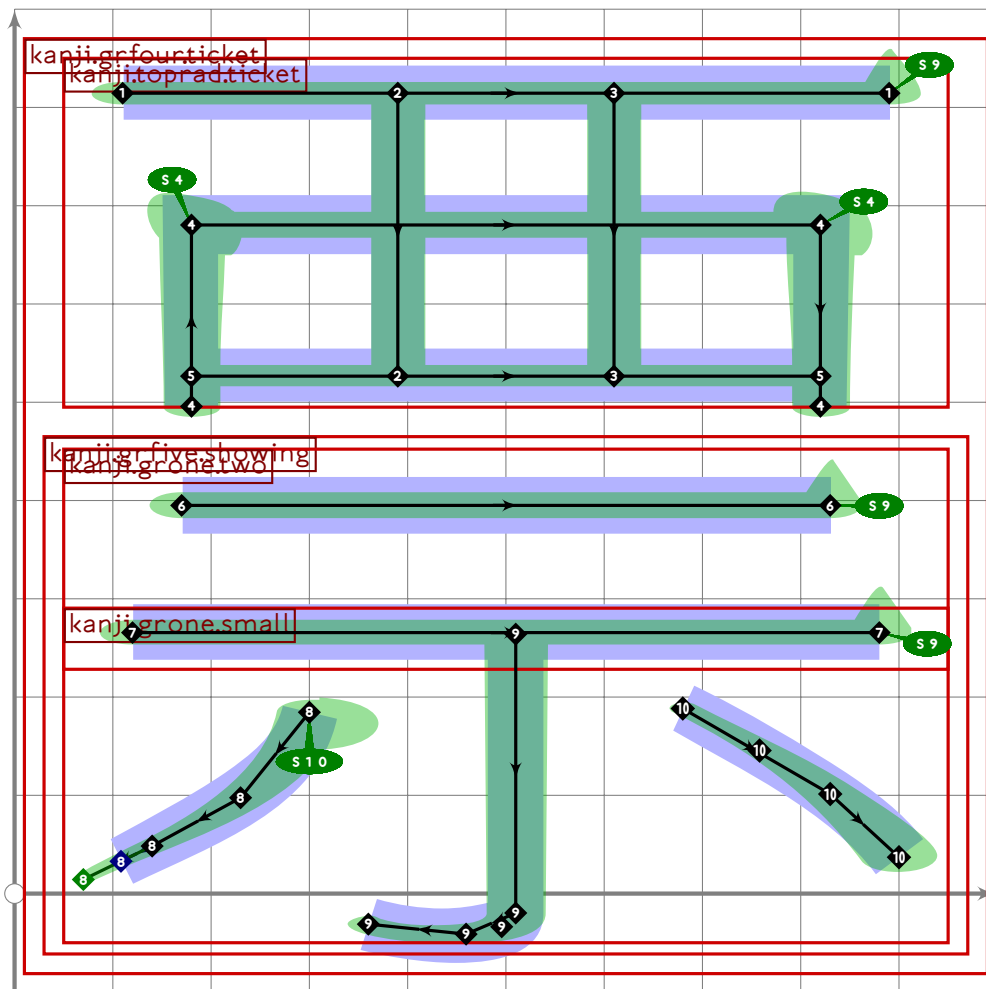
FOUR

```

410
411 vardef kanji.grfour.single =
412   push_pbox_toexpand("kanji.grfour.single");
413   build_kanji.level(build_kanji.tb(720,100)
414     (kanji.toprad.alt_sparkle_three)
415     (build_kanji.sscale(shifted (0,30))(kanji.grtwo.neighbourhood);
416     pop_stroke));
417   expand_pbox;
418 enddef;

```

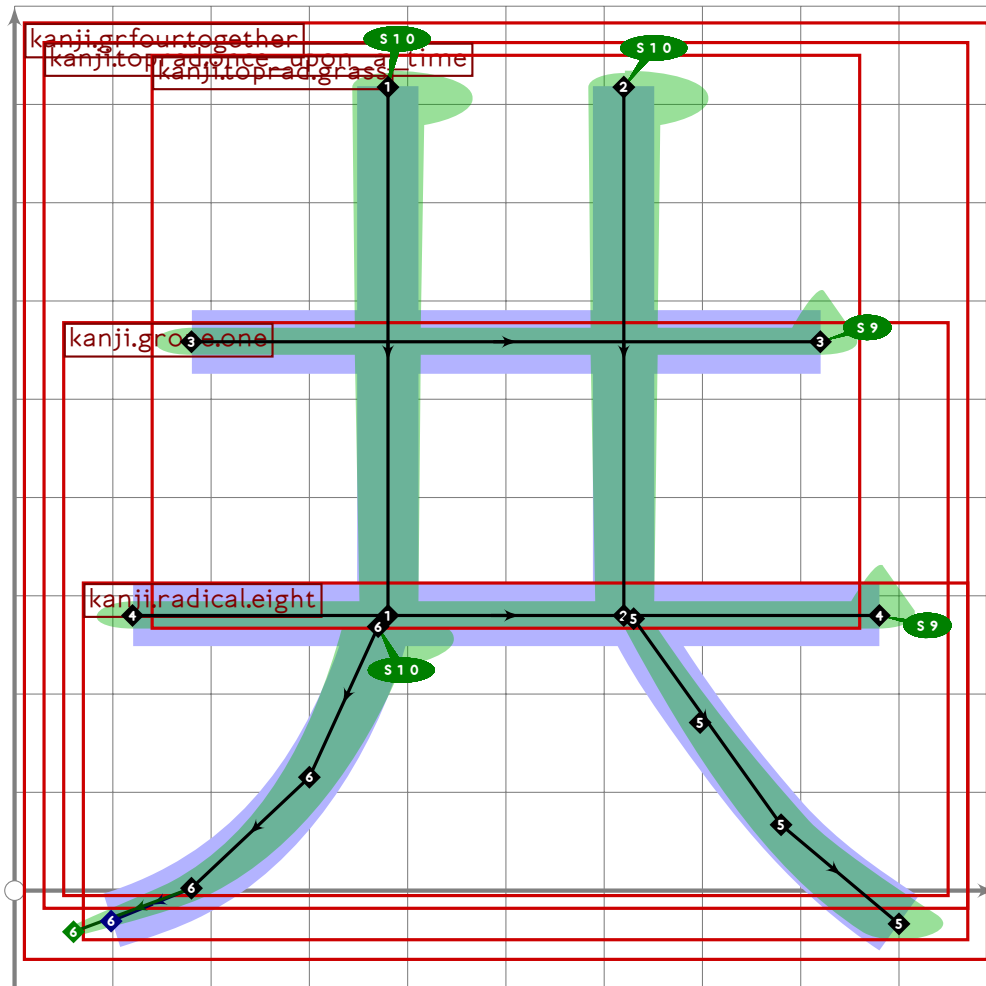
FOUR



```

419
420 vardef kanji.grfour.ticket =
421   push_pbox_toexpand("kanji.grfour.ticket");
422   build_kanji.tb(480,-30)
423     (kanji.toprad.ticket)
424     (kanji.grfive.showing);
425   expand_pbox;
426 enddef;

```



FOUR

```

427
428 vardef kanji.grfour.together =
429   push_pbox_toexpand("kanji.grfour.together");
430   build_kanji.level(build_kanji.tb(290,46)
431     (kanji.toprad.once_upon_a_time)
432     (tsu_xform(identity shifted (20,0))(kanji.radical.eight)));
433   expand_pbox;
434 enddef;

```

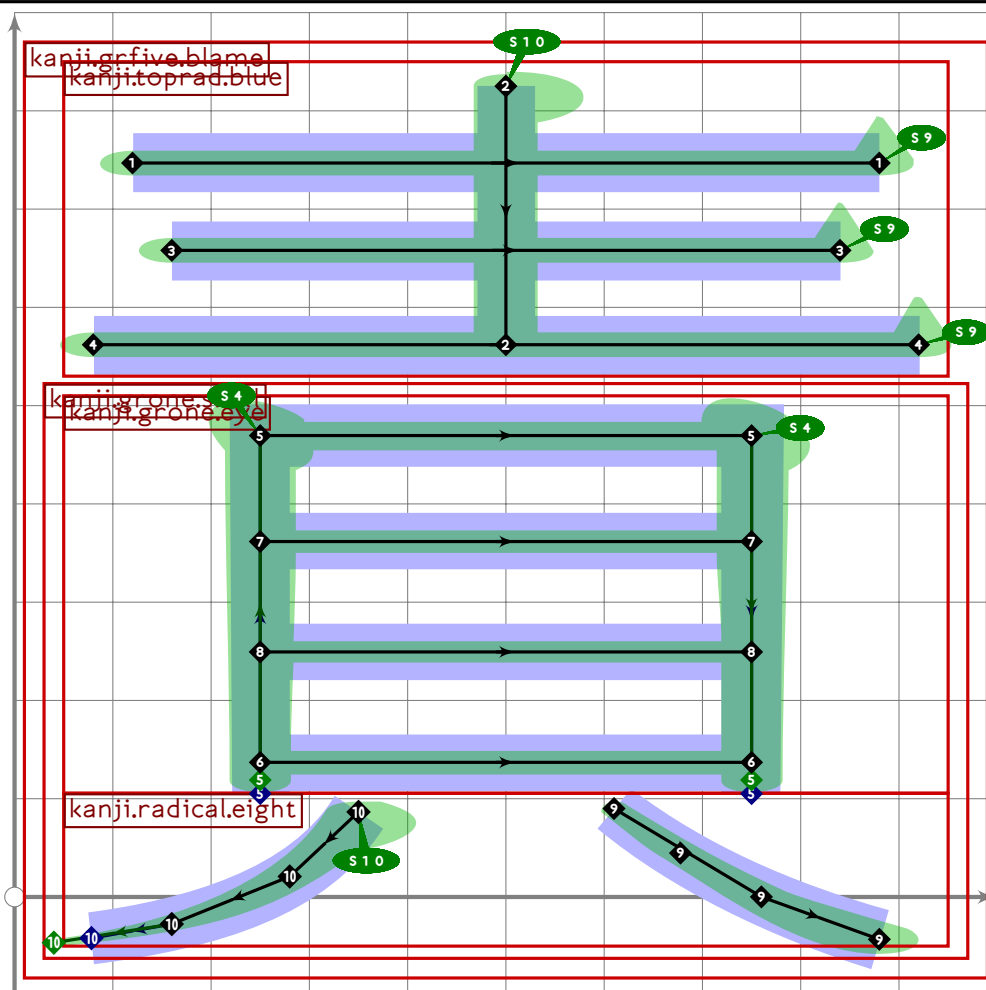
gradefive.mp

```

1 %
2 % Grade Five kanji used on more than one page
3 % Copyright (C) 2011, 2012, 2013 Matthew Skala
4 %
5-29 [Standard copyright notice]
30
31 inclusion_lock(gradefive);
32
33

```

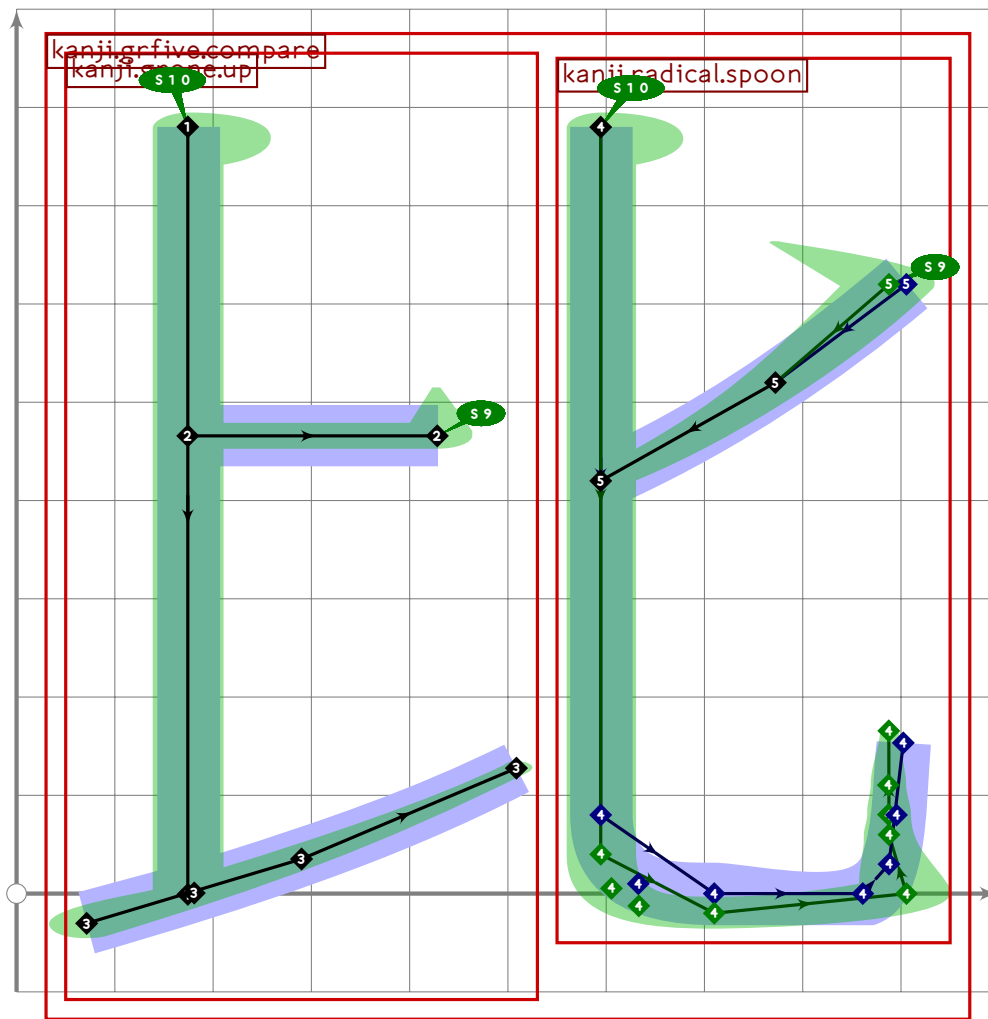
FIVE



```

34
35 vardef kanji.grfive.blame =
36   push_pbox_toexpand("kanji.grfive.blame");
37   build_kanji.level(build_kanji.tb(520;20)
38     (kanji.toprad.blue)
39     (kanji.grone.shell));
40   expand_pbox;
41 enddef;

```



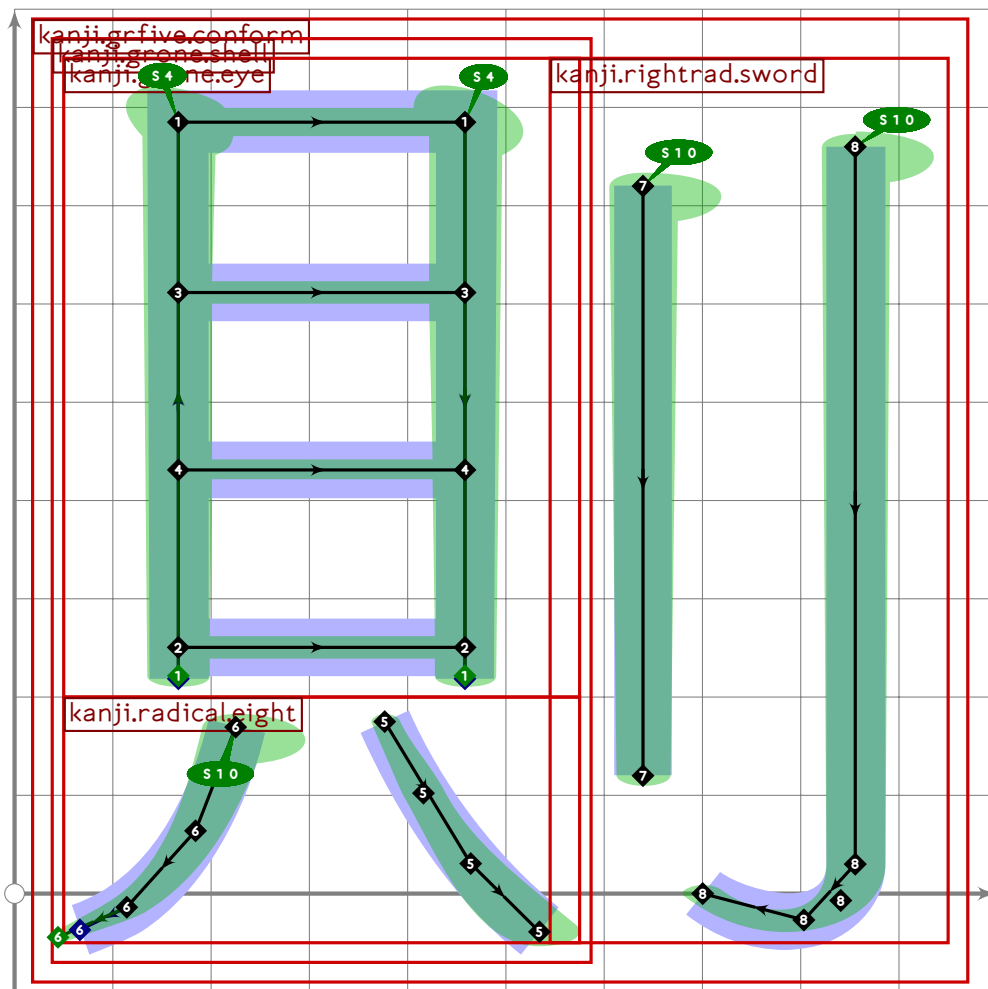
FIVE

```

42
43 vardef kanji.grfive.compare =
44   push_pbox_toexpand("kanji.grfive.compare");
45   build_kanji.level(build_kanji.lr(540,-20)
46     (build_kanji.lift_skirt(300,160)
47       (build_kanji.sscale(yscaled 1.07 shifted (0,-27))(kanji.grone.up);
48         replace_strokep(-1)
49           (oldp shifted (-810,0) xscaled 1.7 shifted (810,60));
50         replace_strokep(-2)
51           (oldp shifted (-810,0) xscaled 1.7 shifted (810,0))))
52     (kanji.radical.spoon));
53   expand_pbox;
54 enddef;

```

U+5247
tsuku.uni5247

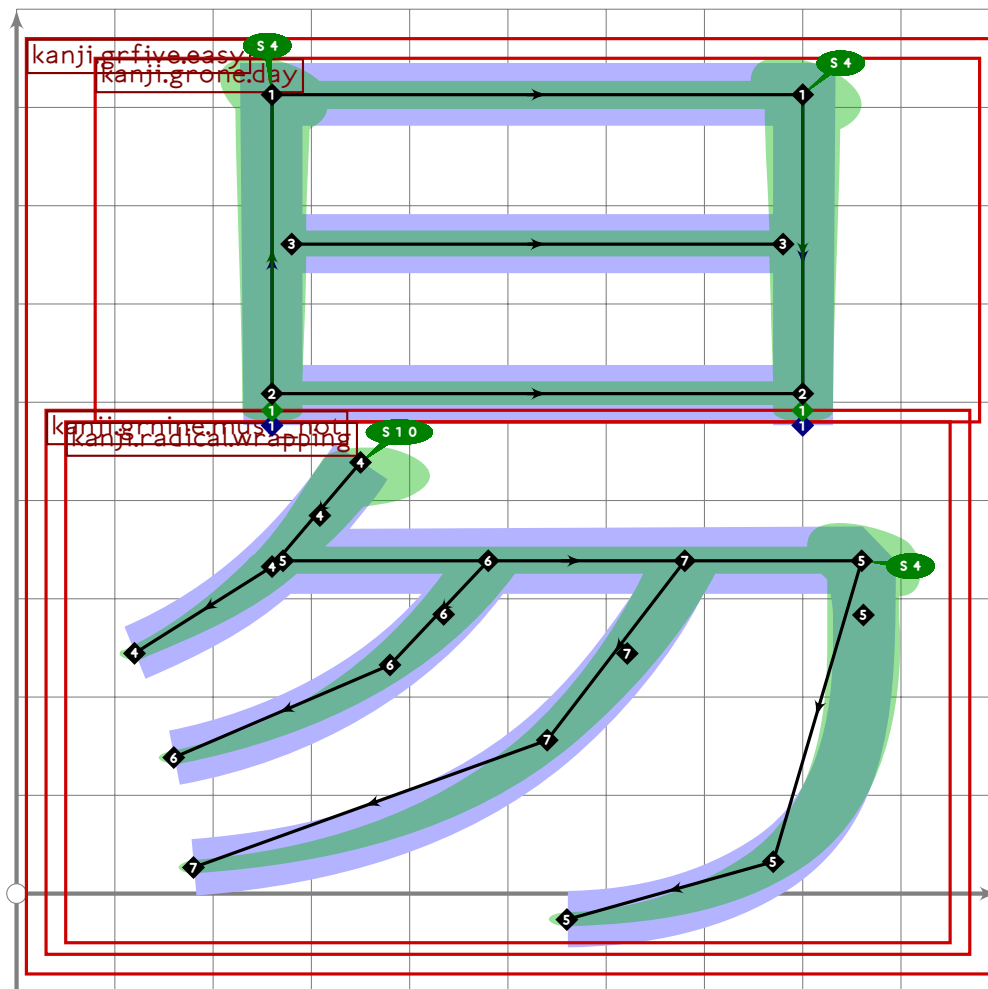


FIVE

```

55
56 vardef kanji.grfive.conform =
57   push_pbox_toexpand("kanji.grfive.conform");
58   build_kanji.level(build_kanji.lr(560,30)
59     (kanji.grone.shell)
60     (kanji.rightrrad.sword));
61   expand_pbox;
62 enddef;

```



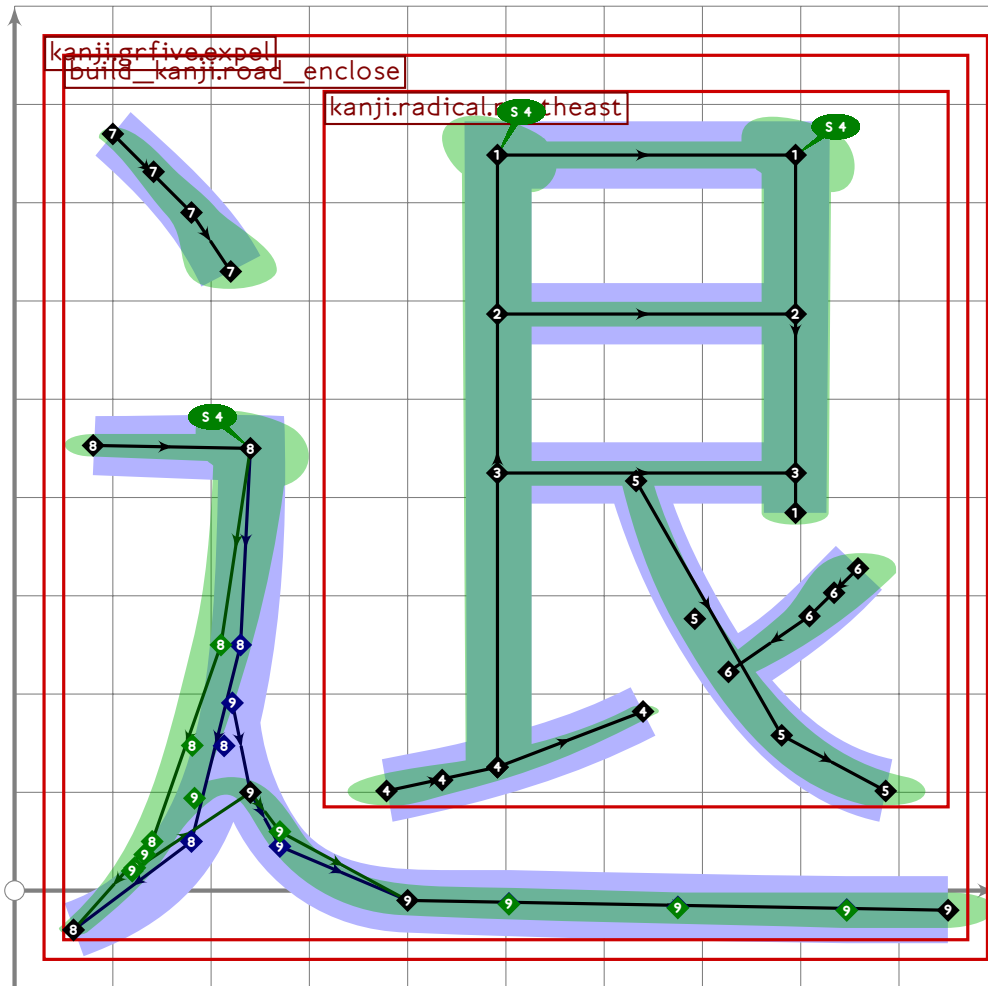
FIVE

```

63
64 vardef kanji.grfive.easy =
65   push_pbox_toexpand("kanji.grfive.easy");
66   build_kanji.tb(480,0)
67     (tsu_xform(identity shifted (30,0))(kanji.grone.day))
68     (kanji.grnine.must_not);
69   expand_pbox;
70 enddef;

```

U+9000
tsuku.uni9000

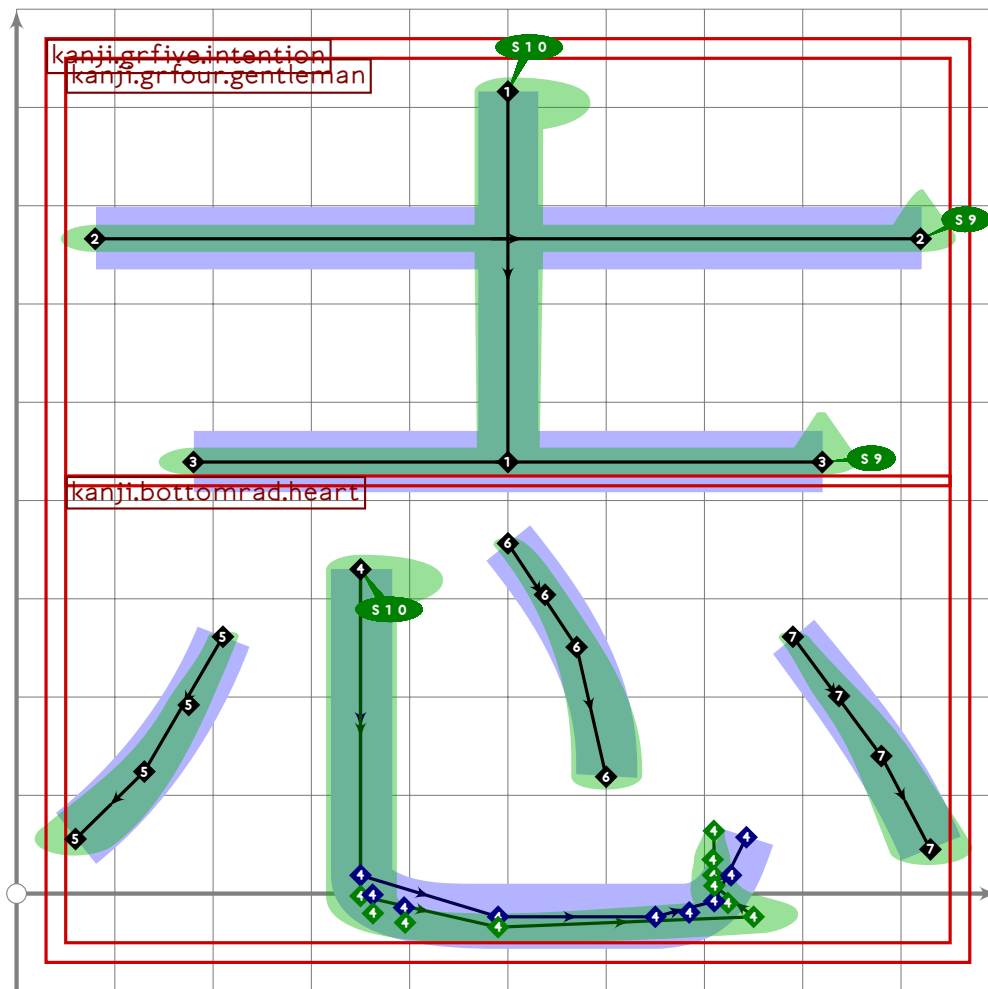


FIVE

```

71
72 vardef kanji.grfive.expel =
73   push_pbox_toexpand("kanji.grfive.expel");
74   build_kanji.road_enclose(build_kanji.sscale(yscaled 0.91)
75     (kanji.radical.northeast));
76   expand_pbox;
77 enddef;

```

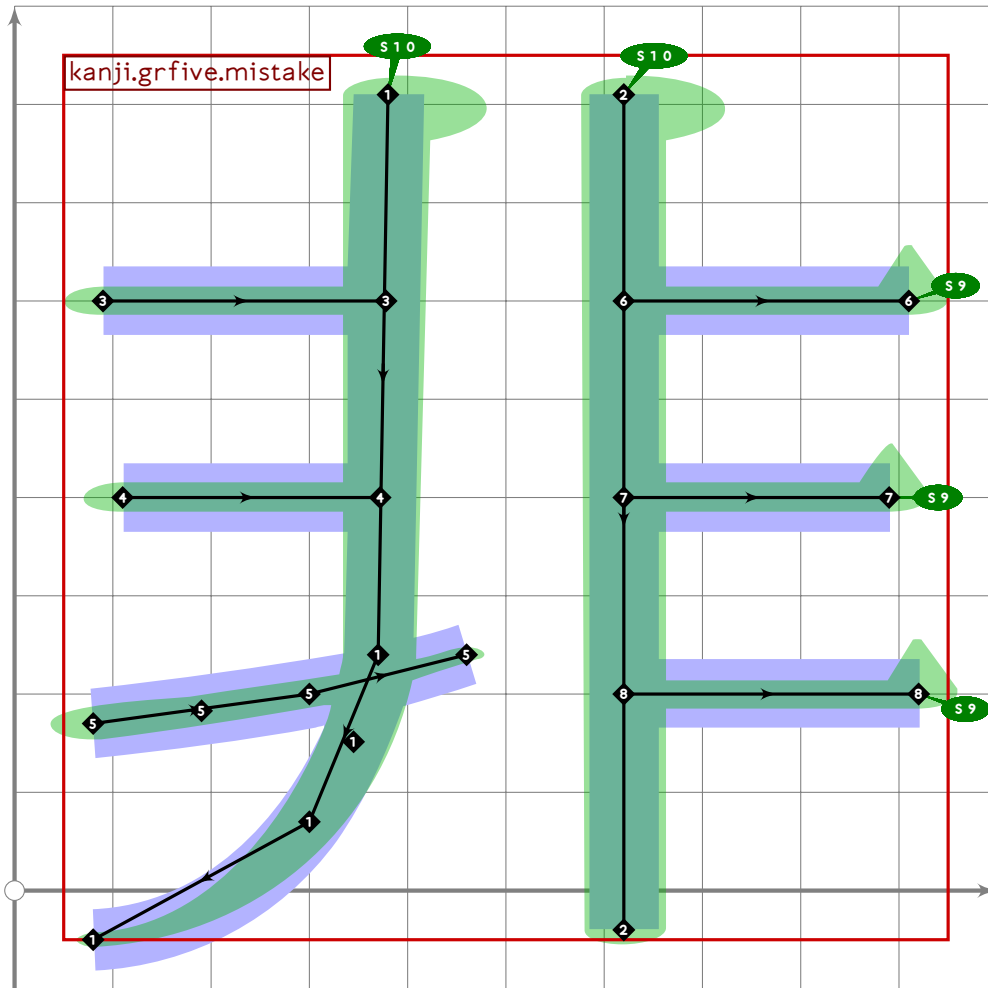
FIVE

```

78
79 vardef kanji.grfive.intention =
80   push_pbox_toexpand("kanji.grfive.intention");
81   build_kanji.level(build_kanji.tb(420,10)
82     (kanji.grfour.gentleman)
83     (kanji.bottomrad.heart));
84   expand_pbox;
85 enddef;

```

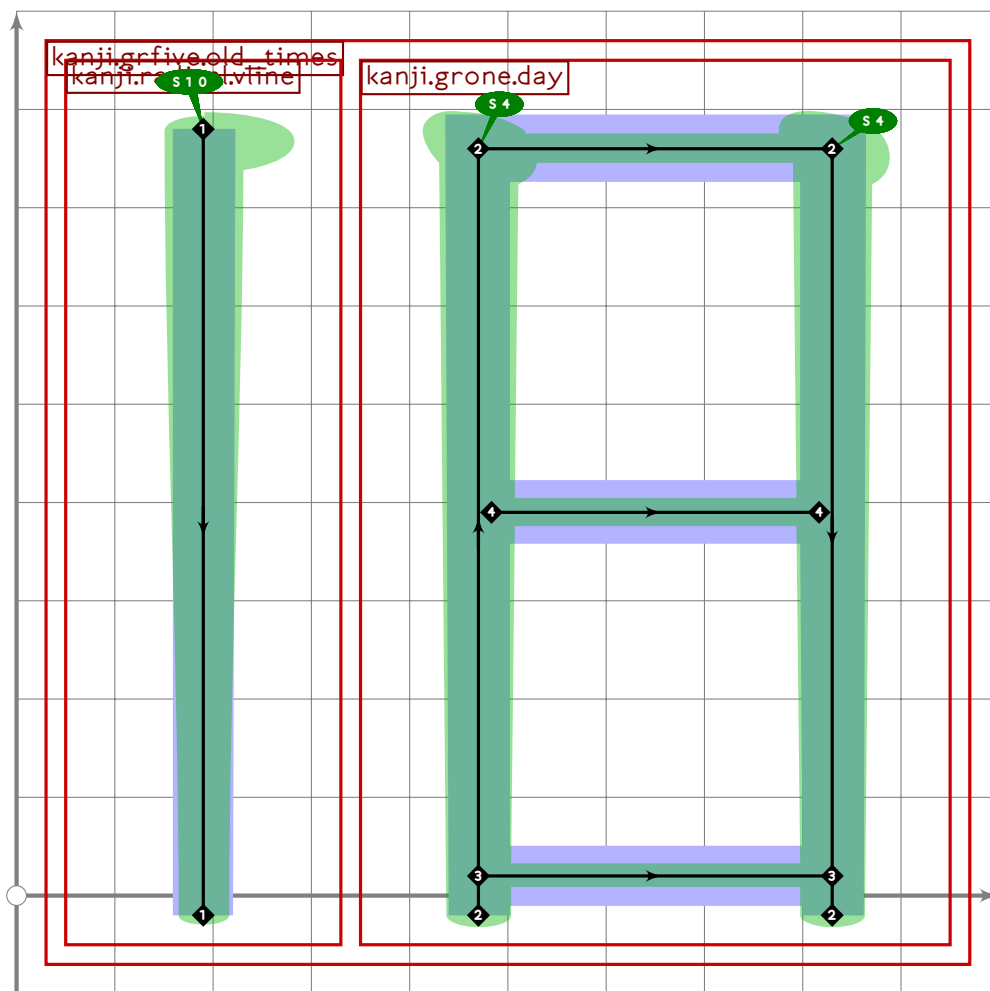
FIVE



```

86
87 vardef kanji.grfive.mistake =
88   push_pbox_toexpand("kanji.grfive.mistake");
89   push_stroke((380,810)–(370,240){dir 266}.tension 1.2..(300,70)..(80,-50),
90     (1.7,1.7)–(1.55,1.55)–(1.44,1.44)–(1,1));
91   set_boserif(0,0,10);
92   push_stroke((620,810)–(620,-40),(1.7,1.7)–(1.6,1.6));
93   set_boserif(0,0,10);
94   push_stroke((90,600)–(378,600),(1.6,1.6)–(1.6,1.6));
95   push_stroke((110,400)–(372,400),(1.6,1.6)–(1.6,1.6));
96   push_stroke((80,170)..tension 1.2..(300,200)..(460,240),
97     (1.7,1.7)–(1.5,1.5)–(1,1));
98   push_stroke((620,600)–(910,600),(1.6,1.6)–(1.6,1.6));
99   set_boserif(0,1,9);
100  push_stroke((620,400)–(890,400),(1.6,1.6)–(1.6,1.6));
101  set_boserif(0,1,9);
102  push_stroke((620,200)–(920,200),(1.6,1.6)–(1.6,1.6));
103  set_boserif(0,1,9);
104  expand_pbox;
105 enddef;

```



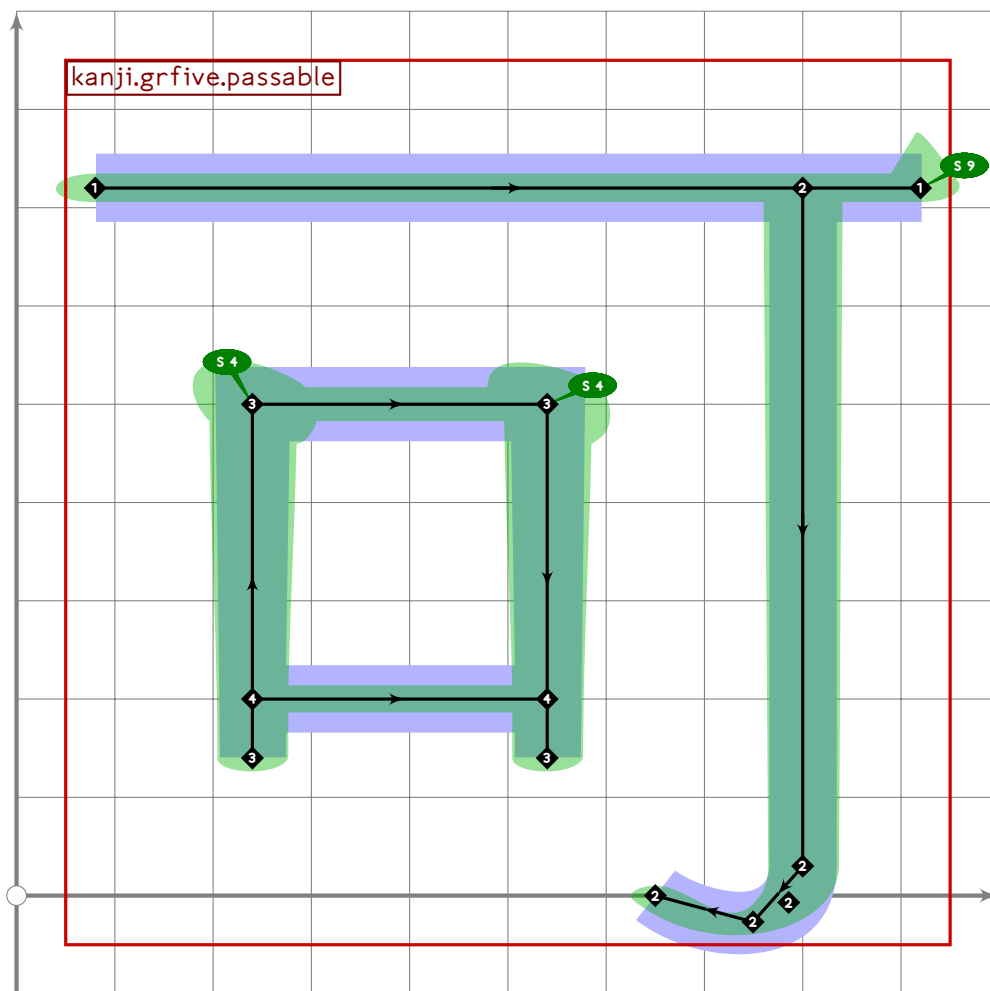
FIVE

```

106
107 vardef kanji.grfive.old_times =
108   push_pbox_toexpand("kanji.grfive.old_times");
109   build_kanji.level(build_kanji.lr(340;-20)
110     (kanji.radical.vline)
111     (kanji.grone.day));
112   expand_pbox;
113 enddef;

```

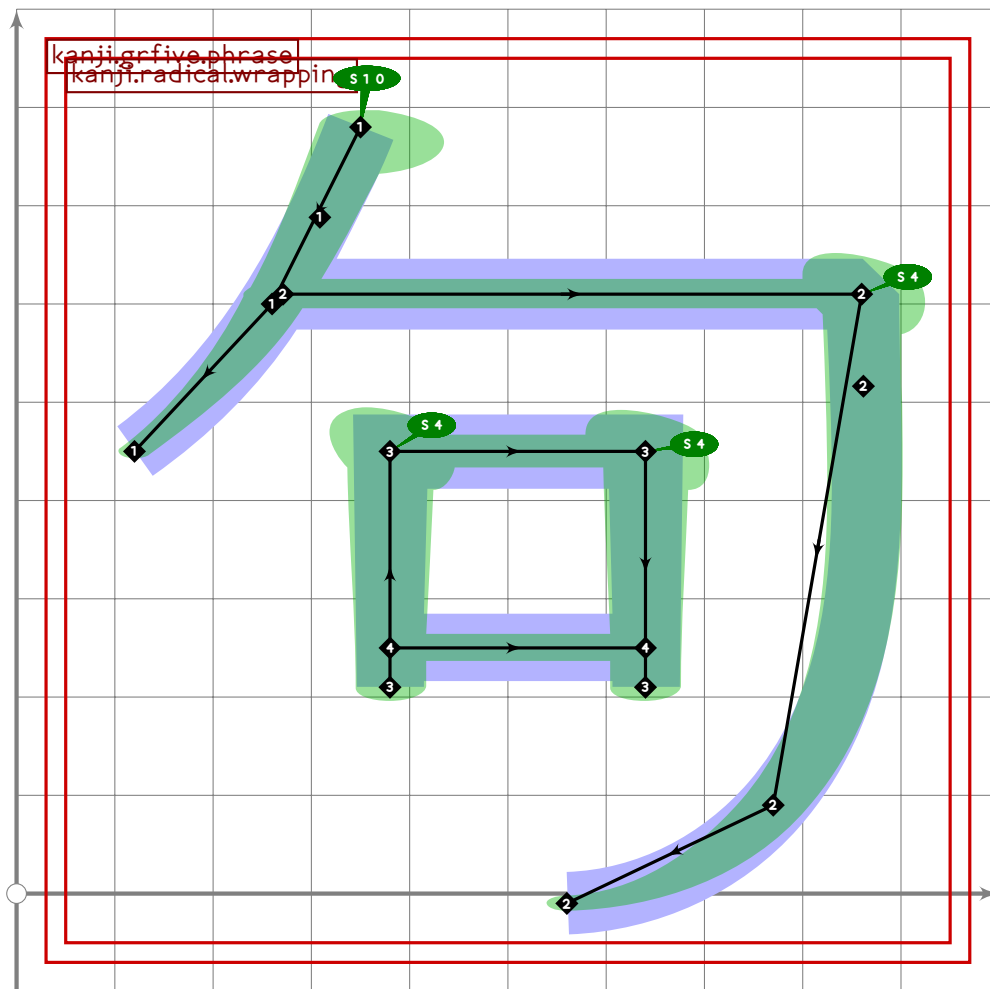
FIVE



```

114
115 vardef kanji.grfive.passable =
116   push_pbox_toexpand("kanji.grfive.passable");
117   push_stroke((80,720)-(920,720),
118     (1.6,1.6)-(1.6,1.6));
119   set_boserif(0,1,9);
120   push_stroke((800,720),
121     (1.6,1.6));
122   build_kanji.add_jtail(0);
123   build_kanji.box((240,500),(540,200));
124   expand_pbox;
125 enddef;

```



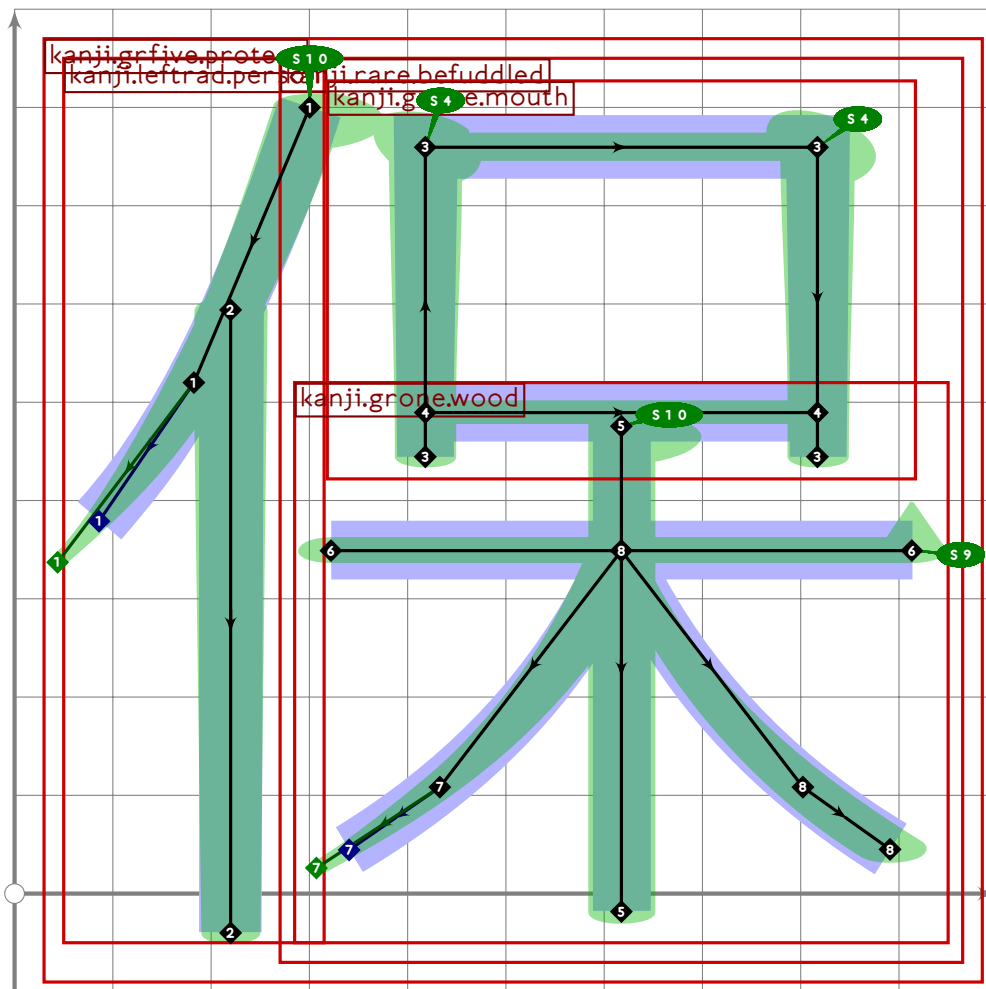
FIVE

```

126
127 vardef kanji.grfive.phrase =
128   push_pbox_toexpand("kanji.grfive.phrase");
129   kanji.radical.wrapping;
130   build_kanji.box((380,450),(640,250));
131   expand_pbox;
132 enddef;

```

U+4FDD
tsuku.uni4FDD

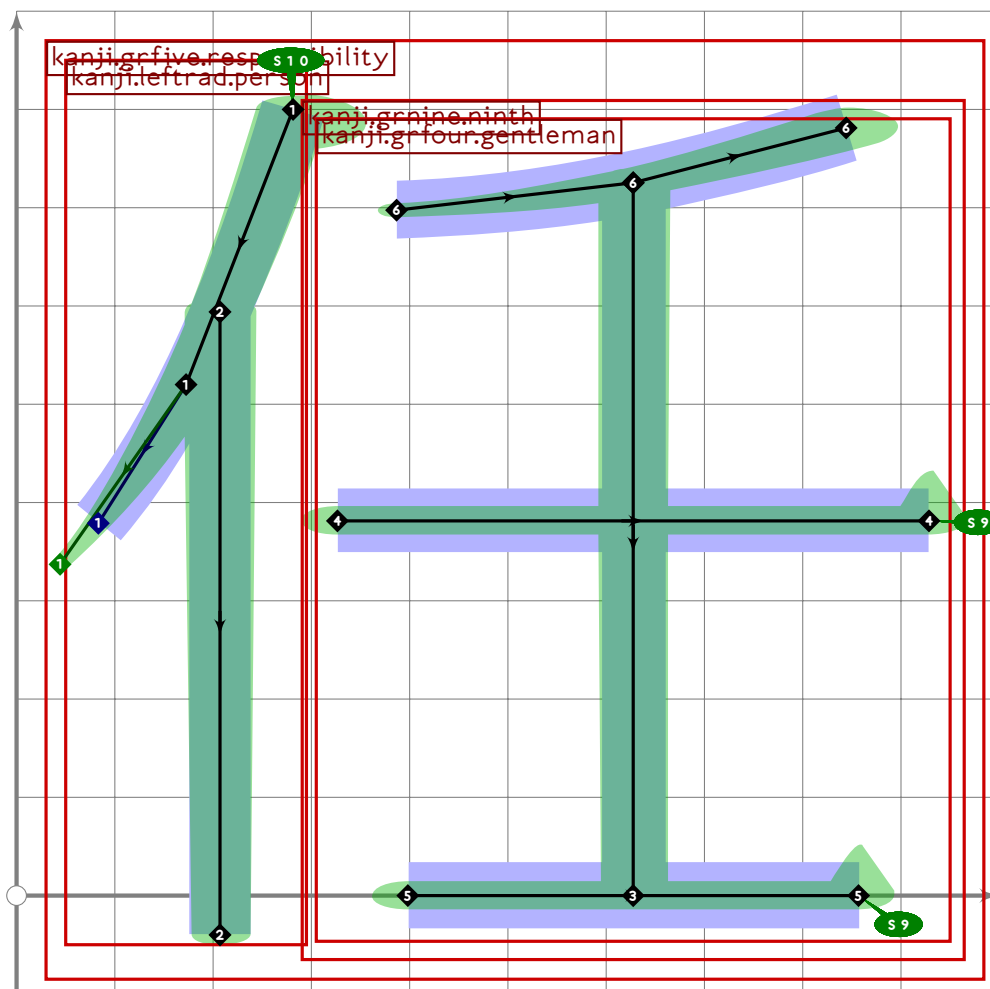


FIVE

```

133
134 vardef kanji.grfive.protect =
135   push_pbox_toexpand("kanji.grfive.protect");
136   build_kanji.lr(300,30)
137     (kanji.leftrad.person)
138     (kanji.rare.befuddled);
139   expand_pbox;
140 enddef;

```



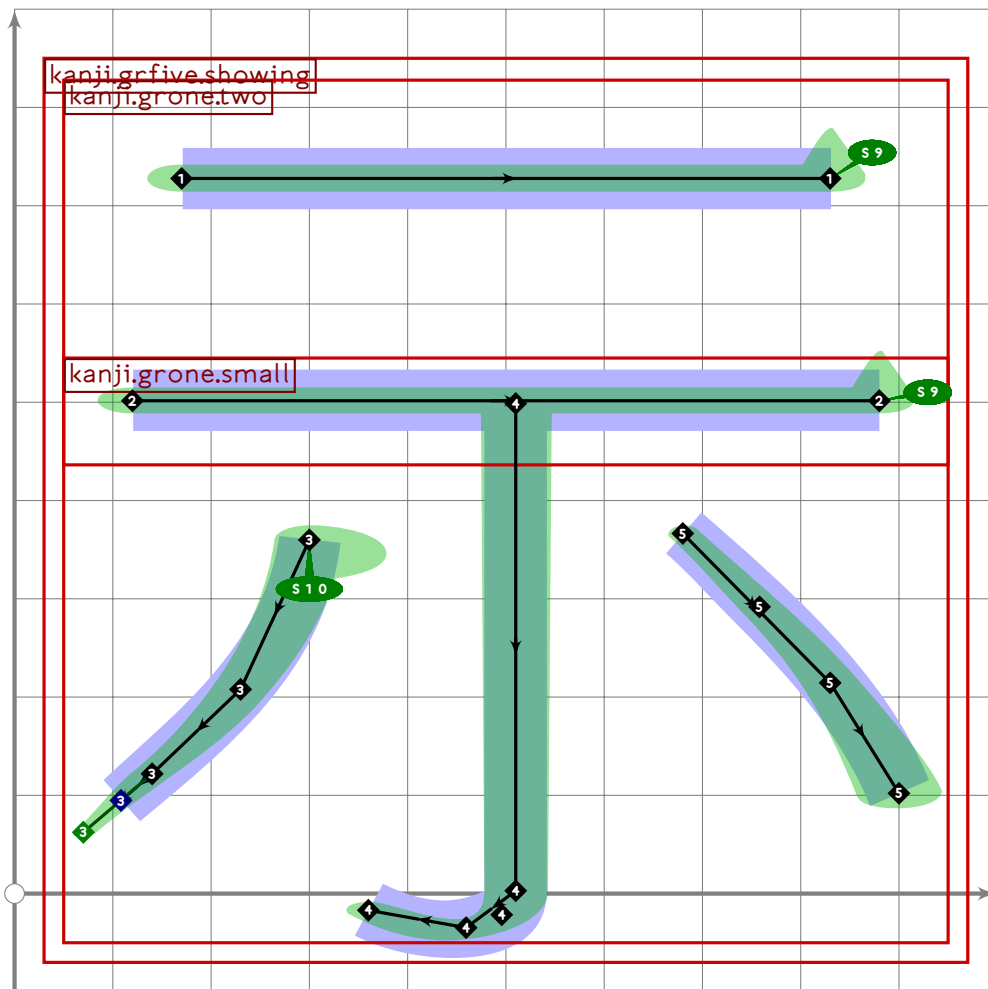
FIVE

```

141
142 vardef kanji.grfive.responsibility =
143   push_pbox_toexpand("kanji.grfive.responsibility");
144   build_kanji.lr(300,-10)
145     (kanji.leftrad.person)
146     (tsu_xform(identity yscaled 0.93)(kanji.grnine.ninth));
147   expand_pbox;
148 enddef;

```

U+793A
tsuku.uni793A

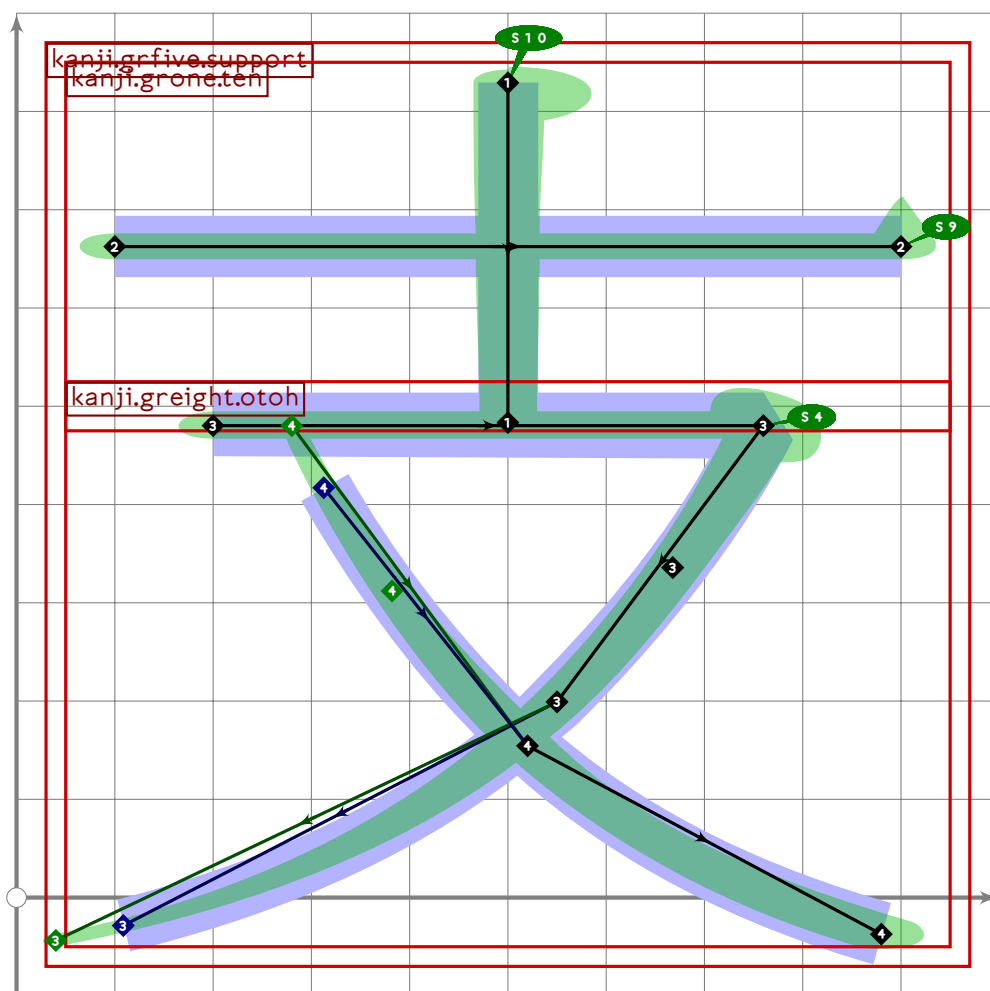


FIVE

```

149
150 vardef kanji.grfive.showing =
151   push_pbox_toexpand("kanji.grfive.showing");
152   build_kanji.level(build_kanji.tb(480,130)
153     (build_kanji.sscale(yscaled 0.9)(kanji.grone.two))
154     (kanji.grone.small));
155   set_boserif(-1,0,whatever);
156   expand_pbox;
157 enddef;

```

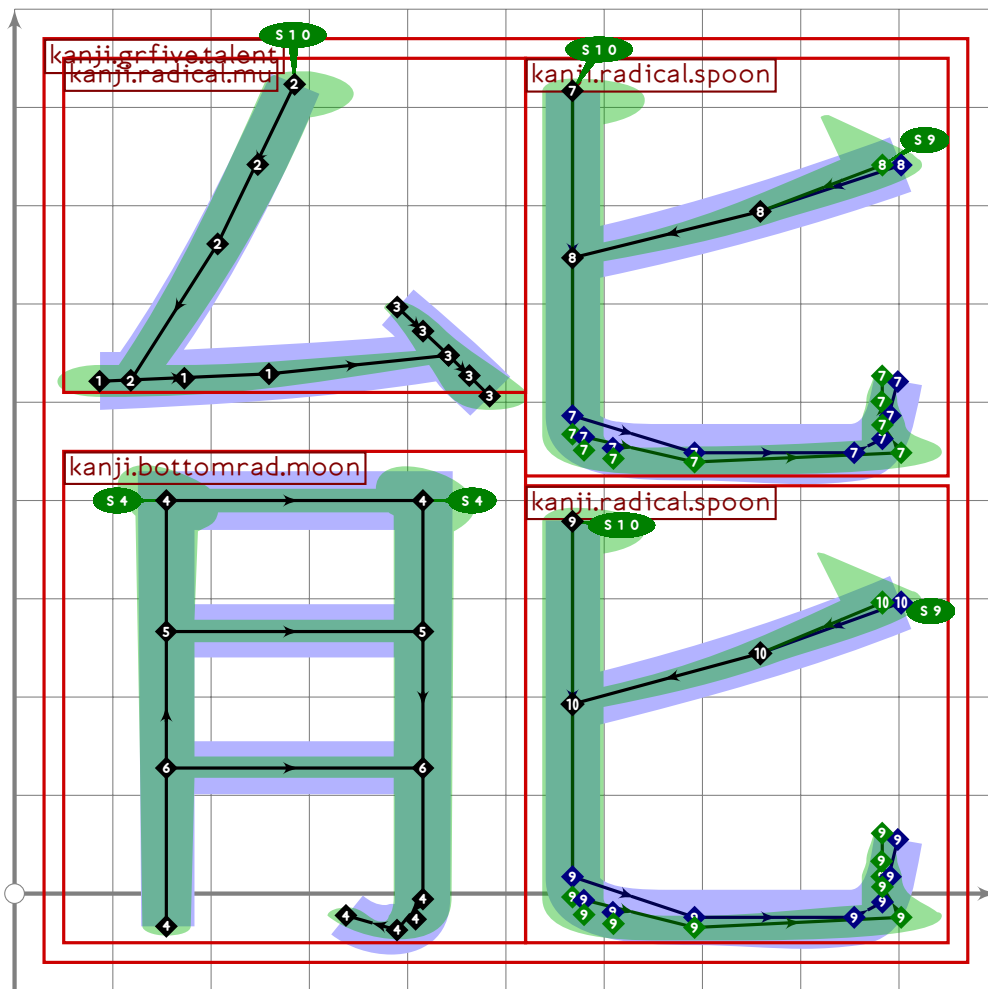
FIVE

```

158
159 vardef kanji.grfive.support =
160   push_pbox_toexpand("kanji.grfive.support");
161   build_kanji.level(build_kanji.tb(500,50)
162     (kanji.grone.ten)
163     (kanji.greight.otoh));
164   expand_pbox;
165 enddef;

```

U+80FD
tsuku.uni80FD

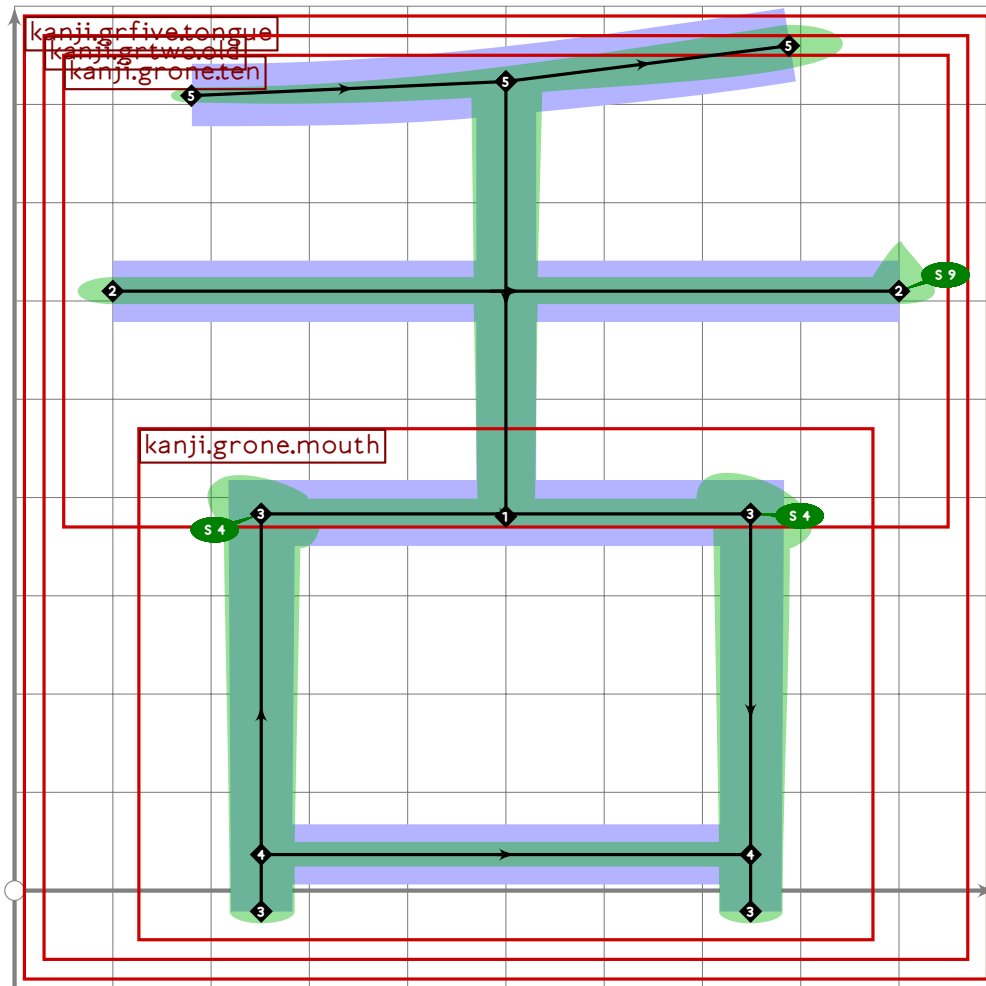


FIVE

```

166
167 vardef kanji.grfive.talent =
168   push_pbox_toexpand("kanji.grfive.talent");
169   build_kanji.level(build_kanji.lr(520,0)
170     (build_kanji.tb(480,-60)
171       (kanji.radical.mu)
172       (kanji.bottomrad.moon))
173     (build_kanji.tb(420,-10)
174       (kanji.radical.spoon)
175       (kanji.radical.spoon)));
176   expand_pbox;
177 enddef;

```



FIVE

```

178
179 vardef kanji.grfive.tongue =
180   push_pbox_toexpand("kanji.grfive.tongue");
181   build_kanji.add_beret(kanji.grtwo.old);
182   expand_pbox;
183 enddef;

```

gradesix.mp

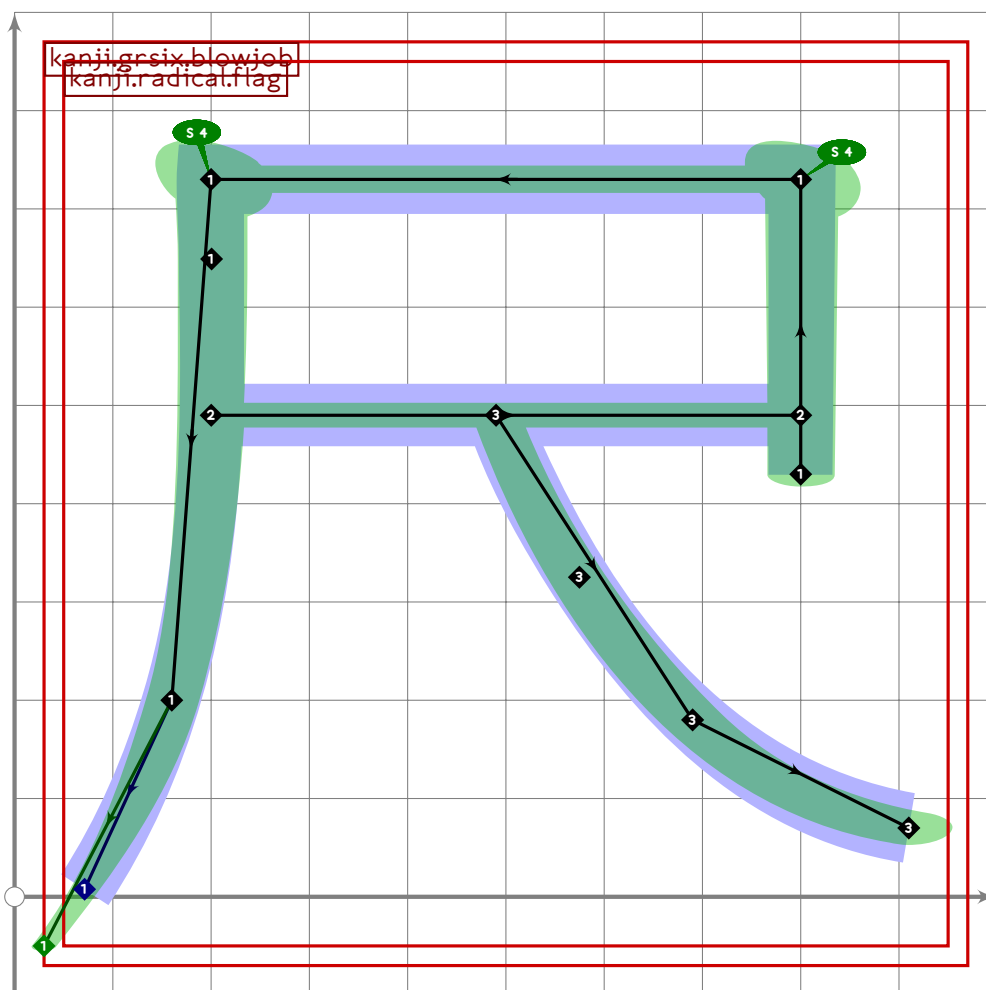
```
1 %
2 % Grade Six kanji used on more than one page
3 % Copyright (C) 2011, 2012, 2013 Matthew Skala
4 %
5-29 [Standard copyright notice]
```

```
30
31 inclusion_lock(gradesix);
```

```
32
```

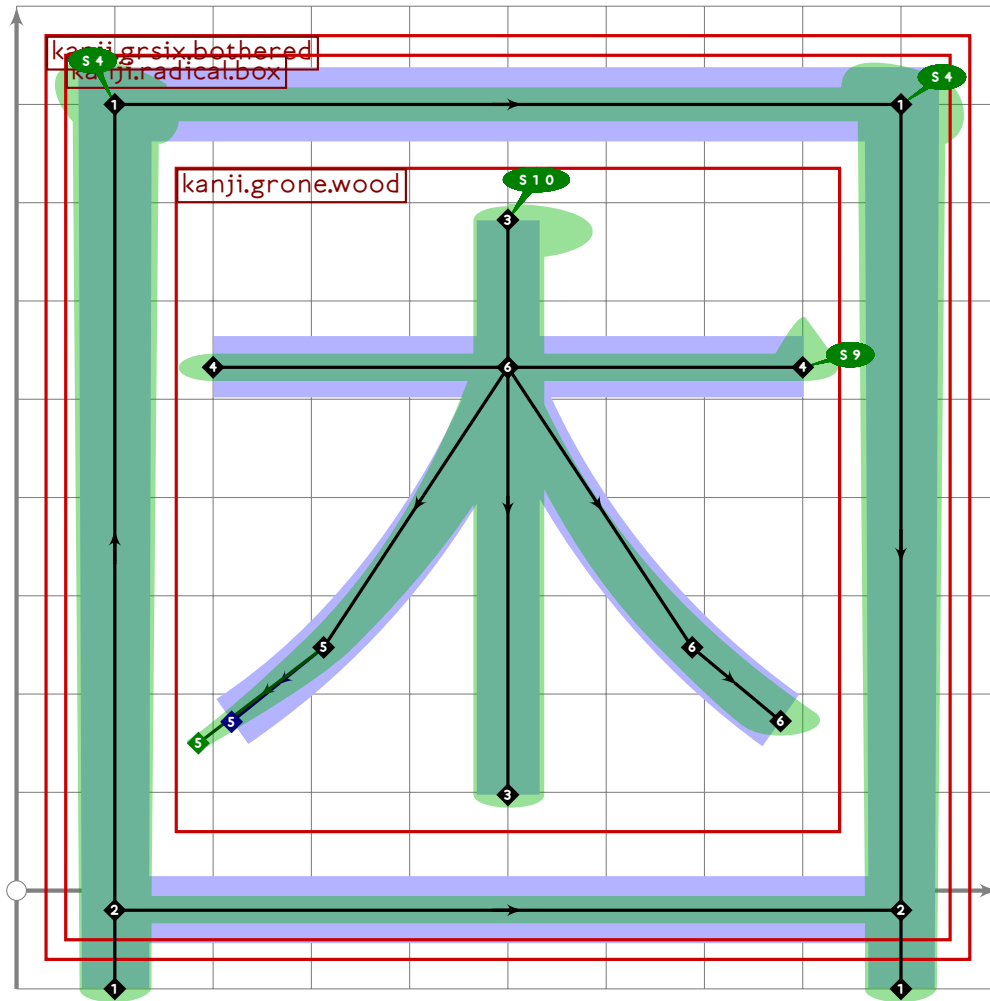
```
33
```

```
34
```



SIX

```
35 % the other common word using this kanji is "foot (unit of measure)" but
36 % that is a poor mnemonic because it's ambiguous with "foot (body part)"
37 vardef kanji.grsix.blowjob =
38   push_pbox_toexpand("kanji.grsix.blowjob");
39   kanji.radical.flag;
40   push_stroke((490,490)..tension 1.2..(690,180)..(910,70),
41     (1,2,1,2)-(1,4,1,4)-(1,7,1,7));
42   expand_pbox;
43 enddef;
```

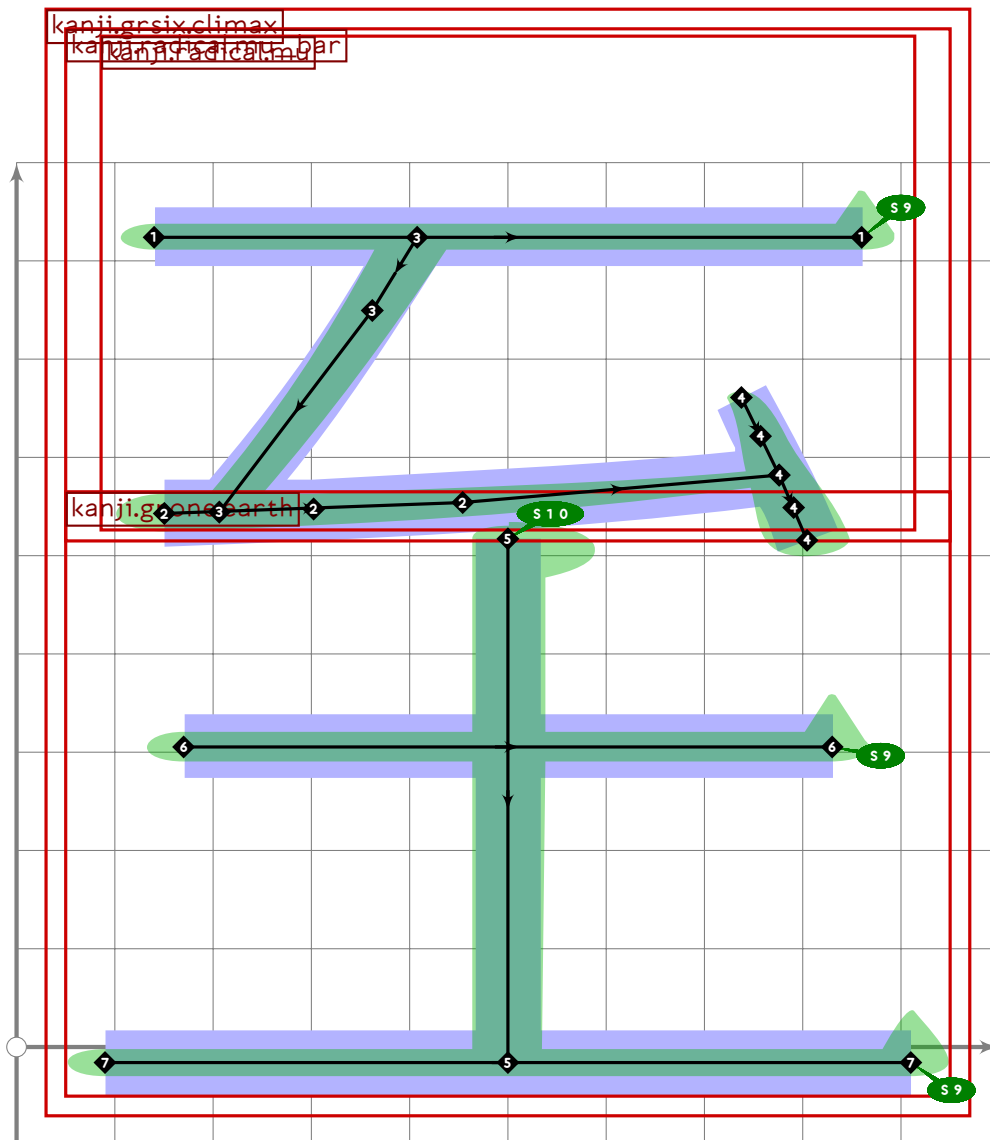


```

44
45 vardef kanji.grsix.bothered =
46   push_pbox_toexpand("kanji.grsix.bothered");
47   kanji.radical.box;
48   build_kanji.sscale(scaled 0.75)(kanji.grone.wood);
49   expand_pbox;
50 enddef;

```

SIX

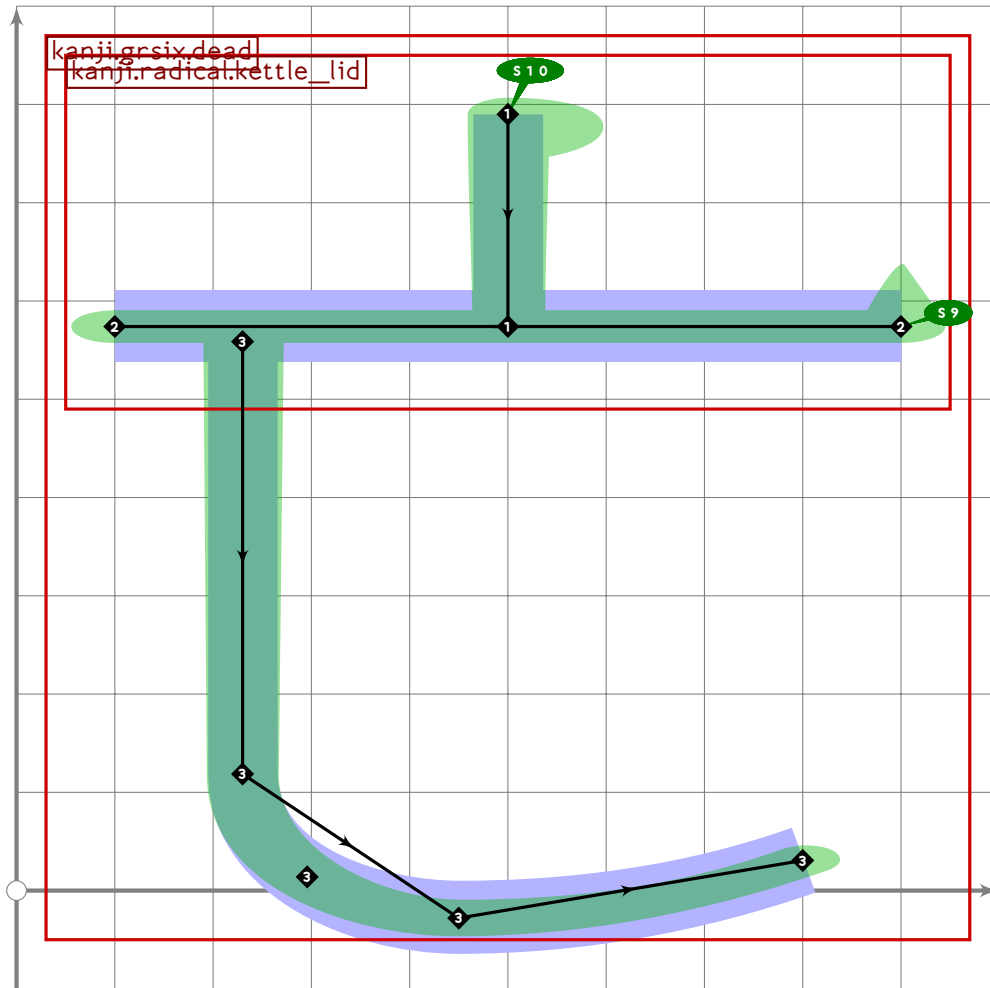


SIX

```

51
52 vardef kanji.grsix.climax =
53   push_pbox_toexpand("kanji.grsix.climax");
54   build_kanji.tb(540,50)
55     (kanji.radical.mu_bar)
56     (kanji.grone.earth);
57   expand_pbox;
58 enddef;

```



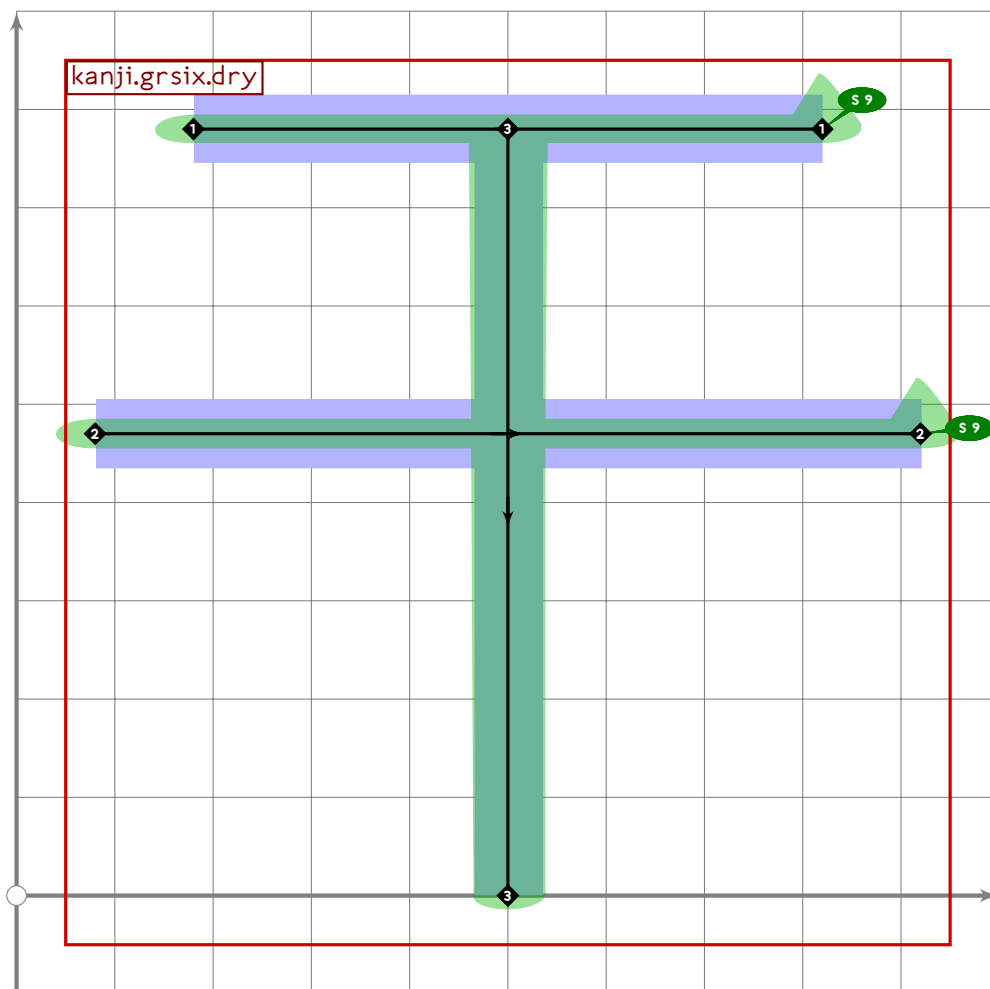
```

59
60 vardef kanji.grsix.dead =
61   push_pbox_toexpand("kanji.grsix.dead");
62   build_kanji.level(build_kanji.tb(550,120)
63     (kanji.radical.kettle_lid)
64     (push_stroke((230,780)-(230,180){down}..{right}(450,20)..(800,60),
65       (1.6,1.6)-(1.5,1.5)-(1.8,1.8)-(1.5,1.5))));
66   expand_pbox;
67 enddef;

```

SIX

U+5E72
tsuku.uni5E72

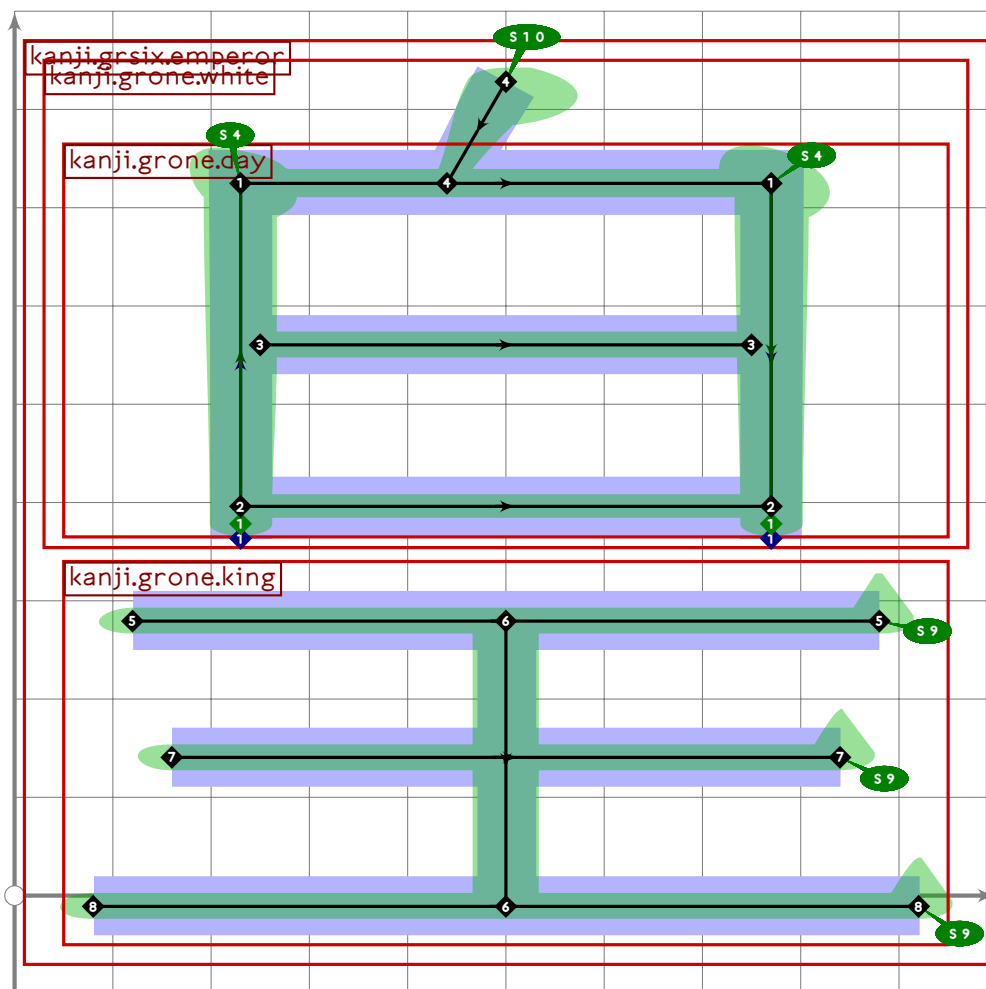


SIX

```

68
69 vardef kanji.grsix.dry =
70   push_pbox_toexpand("kanji.grsix.dry");
71   push_stroke((180,780)–(820,780),
72     (1.6,1.6)–(1.6,1.6));
73   set_boserif(0,1,9);
74   push_stroke((80,470)–(920,470),
75     (1.6,1.6)–(1.6,1.6));
76   set_boserif(0,1,9);
77   push_stroke((500,780)–(500,0),
78     (1.6,1.6)–(1.5,1.5));
79   expand_pbox;
80 enddef;

```

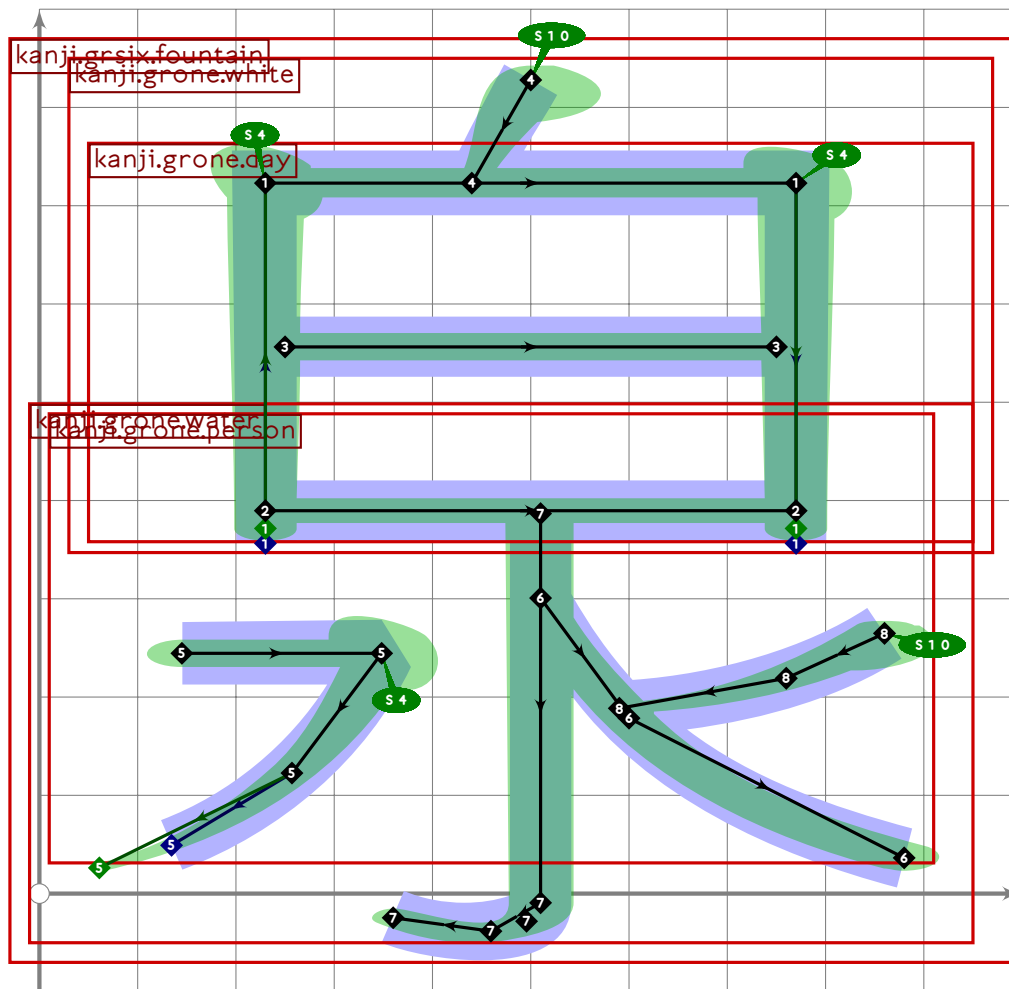



```

81
82 vardef kanji.grsix.emperor =
83   push_pbox_toexpand("kanji.grsix.emperor");
84   build_kanji.tb(350,20)
85     (kanji.grone.white)
86     (kanji.grone.king);
87   expand_pbox;
88 enddef;

```

SIX

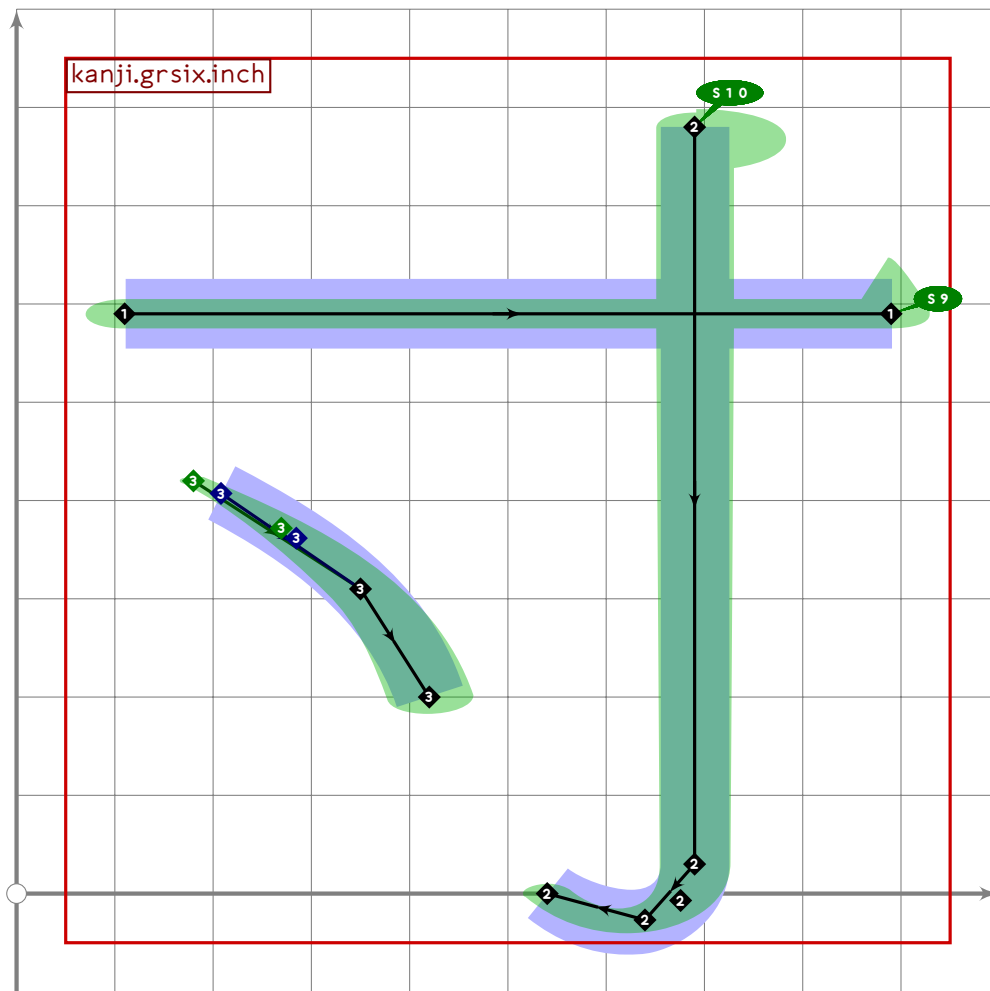


SIX

```

89
90 vardef kanji.grsix.fountain =
91   push_pbox_toexpand("kanji.grsix.fountain");
92   build_kanji.level(build_kanji.tb(380,54)
93     (kanji.grone.white)
94     (kanji.grone.water;
95       set_boserif(-1,0,whatever)));
96   expand_pbox;
97 enddef;

```

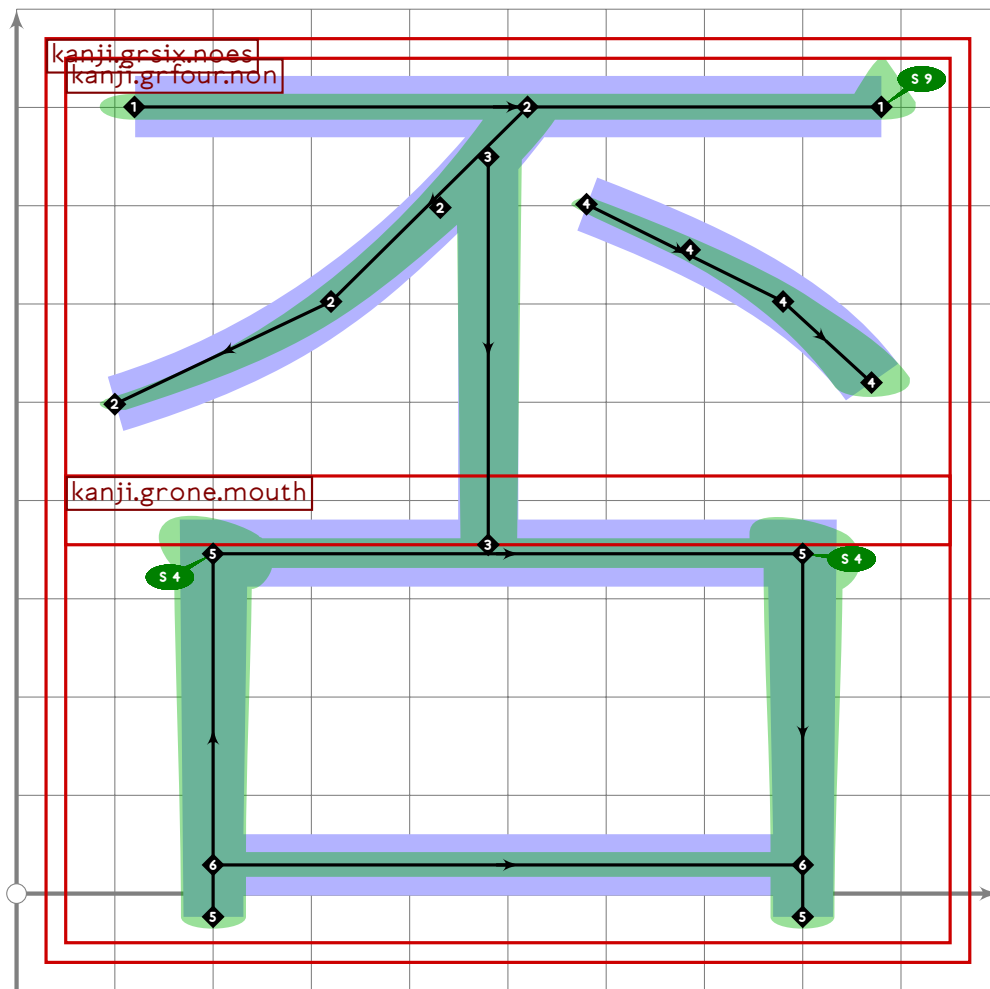


```

98
99 vardef kanji.grsix.inch =
100   push_pbox_toexpand("kanji.grsix.inch");
101   push_stroke((110,590)–(890,590),(1.6,1.6)–(1.6,1.6));
102   set_boserif(0,1,9);
103   push_stroke((690,780),(1.6,1.6));
104   build_kanji.add_jtail(0);
105   set_boserif(0,0,10);
106   push_stroke((180,420)..tension 1.2..(350,310)..(420,200),
107     (0,0,9)–(1.5,1.5)–(1.7,1.7));
108   expand_pbox;
109 enddef;

```

SIX

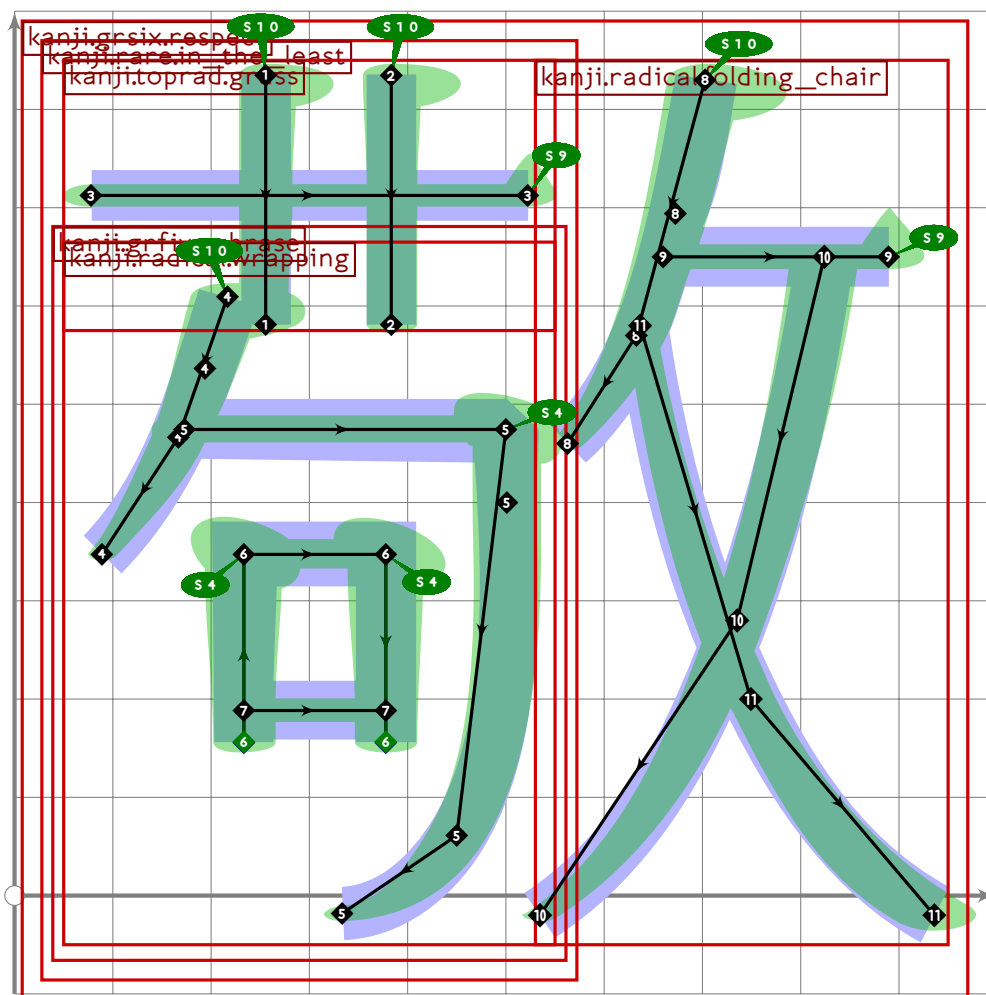


SIX

```

110
111 vardef kanji.grsix.noes =
112   push_pbox_toexpand("kanji.grsix.noes");
113   build_kanji.level(build_kanji.tb(390,70)
114     (kanji.grfour.non)
115     (kanji.grone.mouth));
116   expand_pbox;
117 enddef;

```



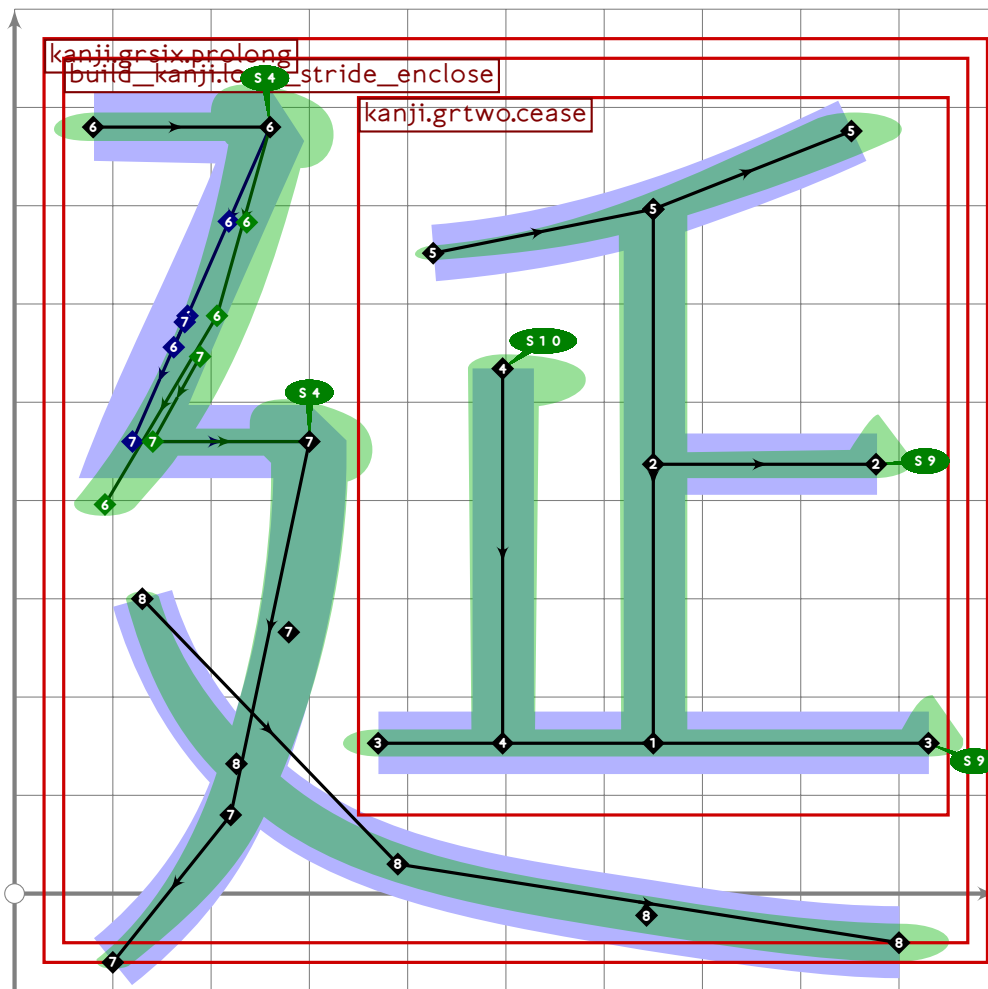
```

118
119 vardef kanji.grsix.respect =
120   push_pbox_toexpand("kanji.grsix.respect");
121   build_kanji.lr(540,20)
122     (kanji.rare.in_the_least)
123     (kanji.radical.folding_chair);
124   expand_pbox;
125 enddef;

```

SIX

U+5EF6
tsuku.uni5EF6

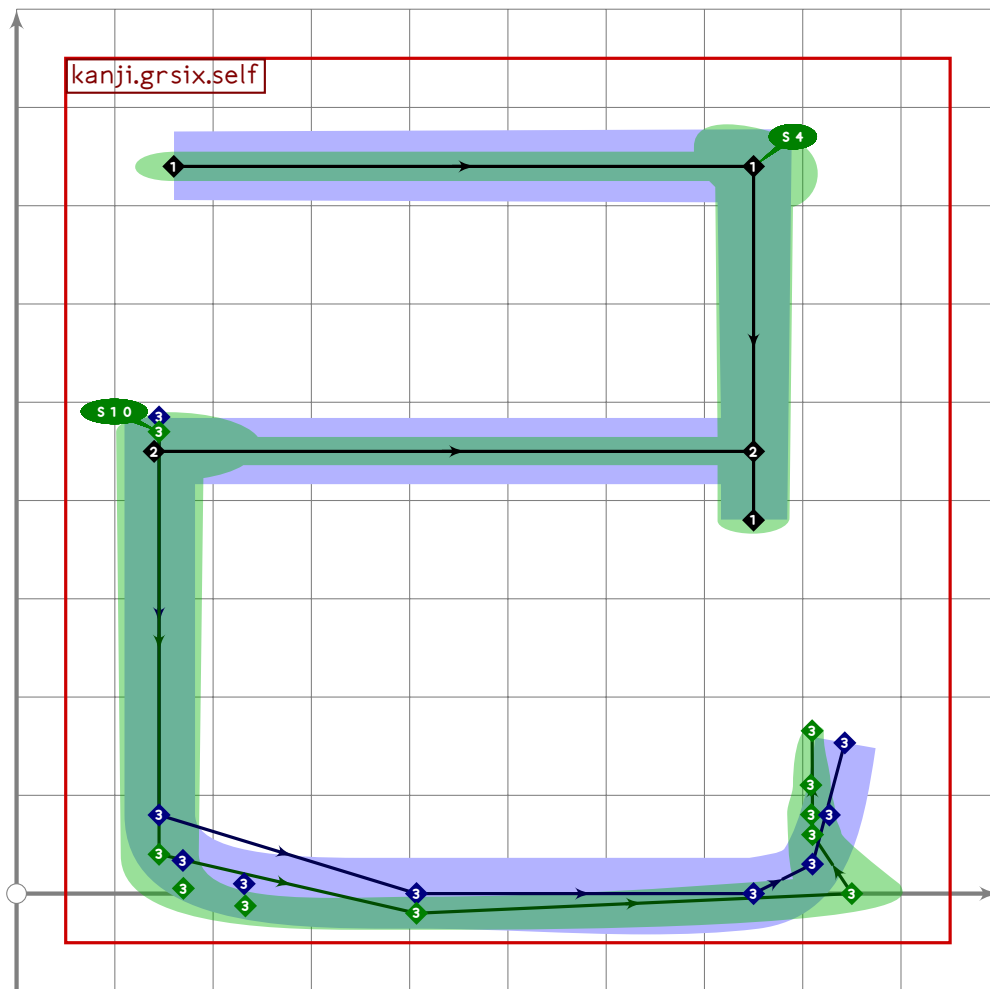


SIX

```

126
127 vardef kanji.grsix.prolong =
128   push_pbox_toexpand("kanji.grsix.prolong");
129   build_kanji.long_stride_enclose(false)
130   (build_kanji.add_beret(kanji.grtwo.cease));
131   expand_pbox;
132 enddef;

```



```

133
134 vardef kanji.grsix.self =
135   push_pbox_toexpand("kanji.grsix.self");
136   push_stroke((160,740)-(750,740)-(750,380),
137     (1.6,1.6)-(1.6,1.6)-(1.5,1.5));
138   set_botip(0,1,1);
139   set_boserif(0,1,4);
140   push_stroke((140,450)-(750,450),
141     (1.5,1.5)-(1.5,1.5));
142   push_stroke((145,485-15*mincho),(1.7,1.7));
143   set_boserif(0,0,10);
144   build_kanji.add_ltail(0);
145   expand_pbox;
146 enddef;

```

SIX