

作りましょう 0.10

パラメタ方式フォントファミリ  
校とプリティプリントのソース

Tsukurimashou 0.10

Parametric Font Family  
Proofs and pretty-printed  
source code

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Proofs and pretty-printed source code for Tsukurimashou  
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Volume 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, 2016 Matthew Skala
4 %
```

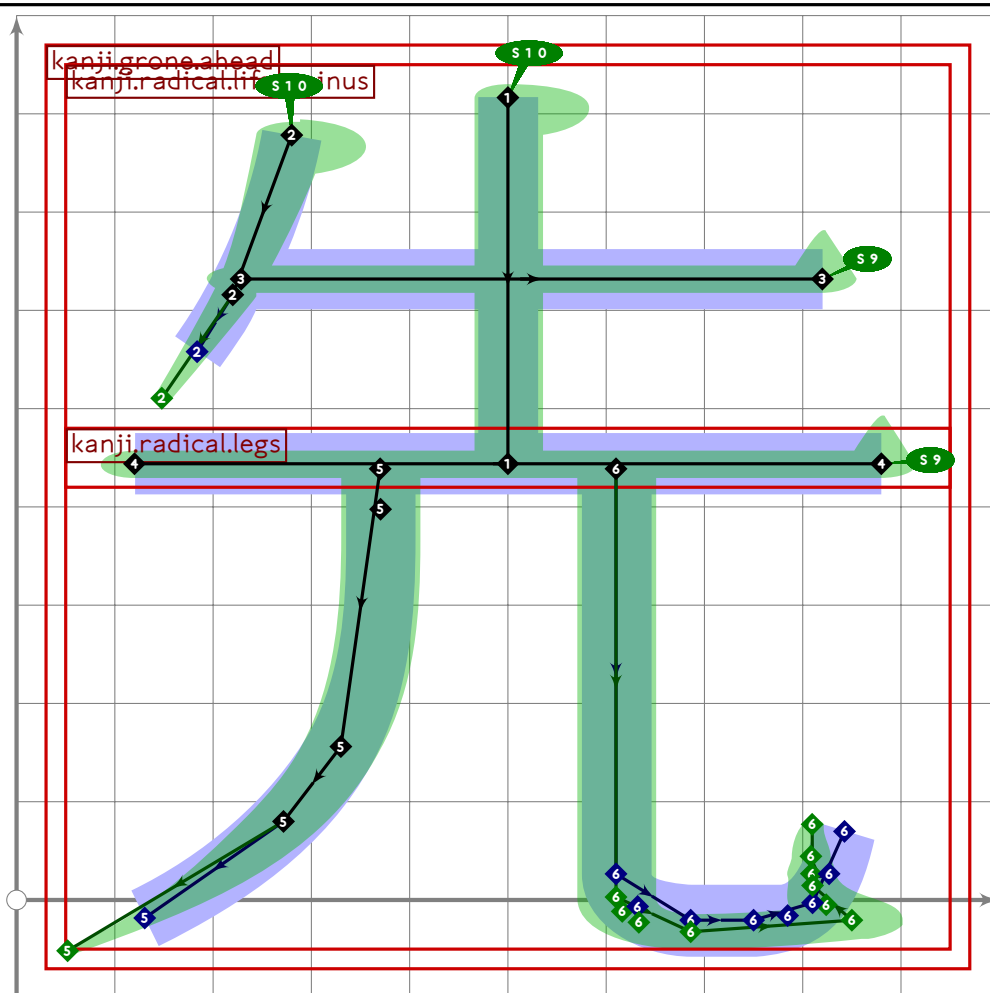
```
5-29 [Standard copyright notice]
```

```
30
```

```
31 inclusion_lock(gradeone);
```

```
32
```

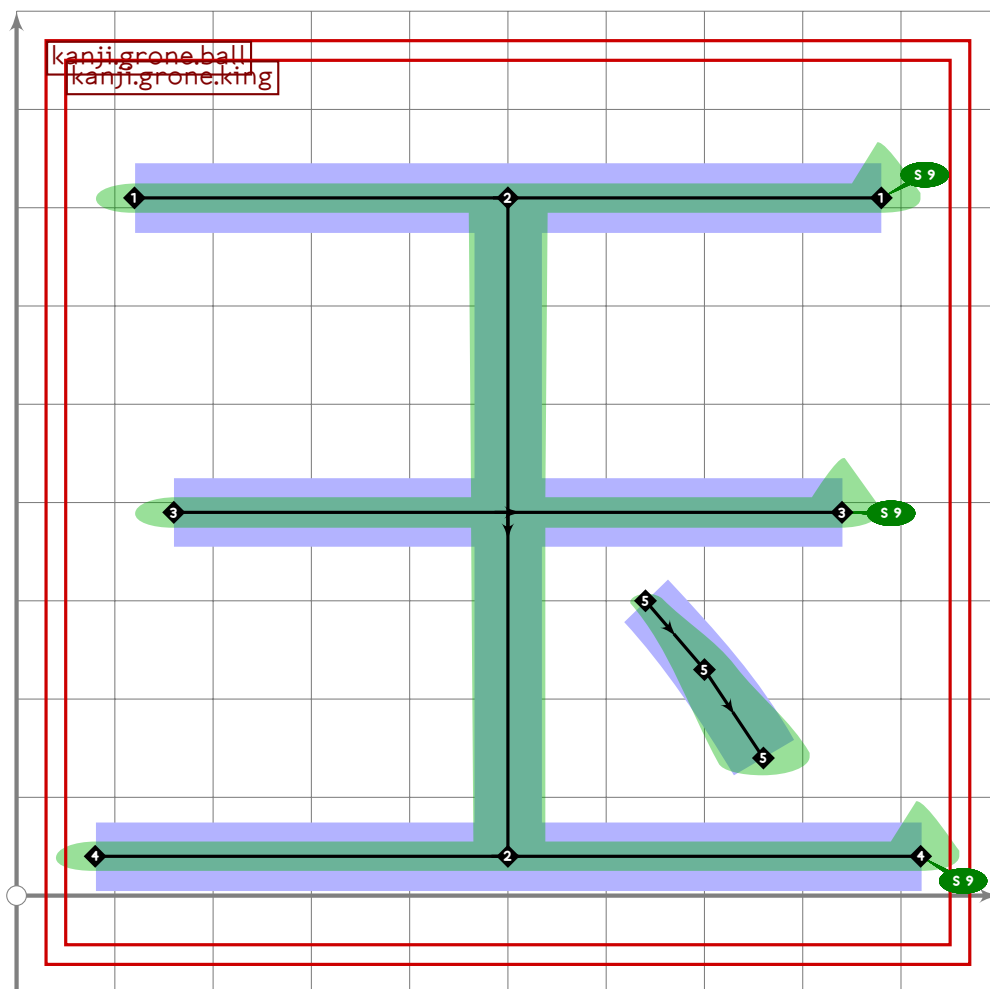
```
33
```



```
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;
```

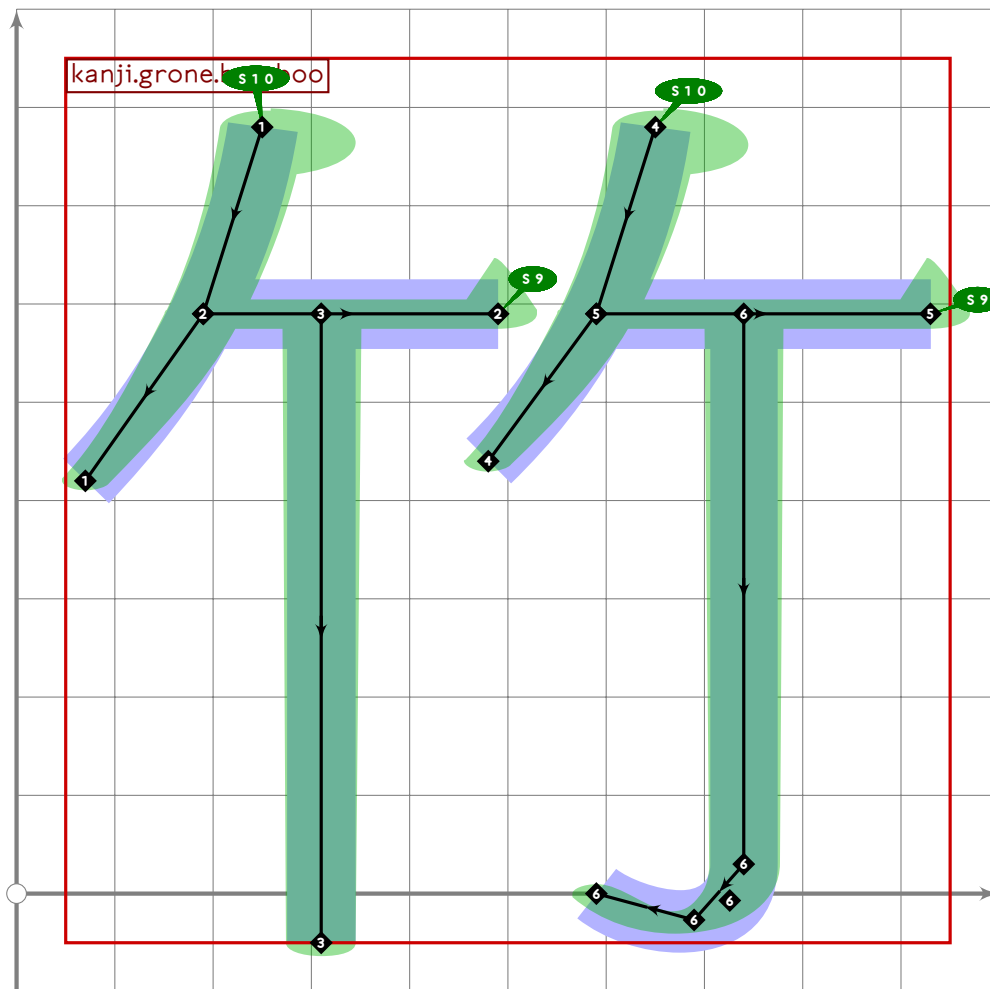
ONE



```

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;

```



```

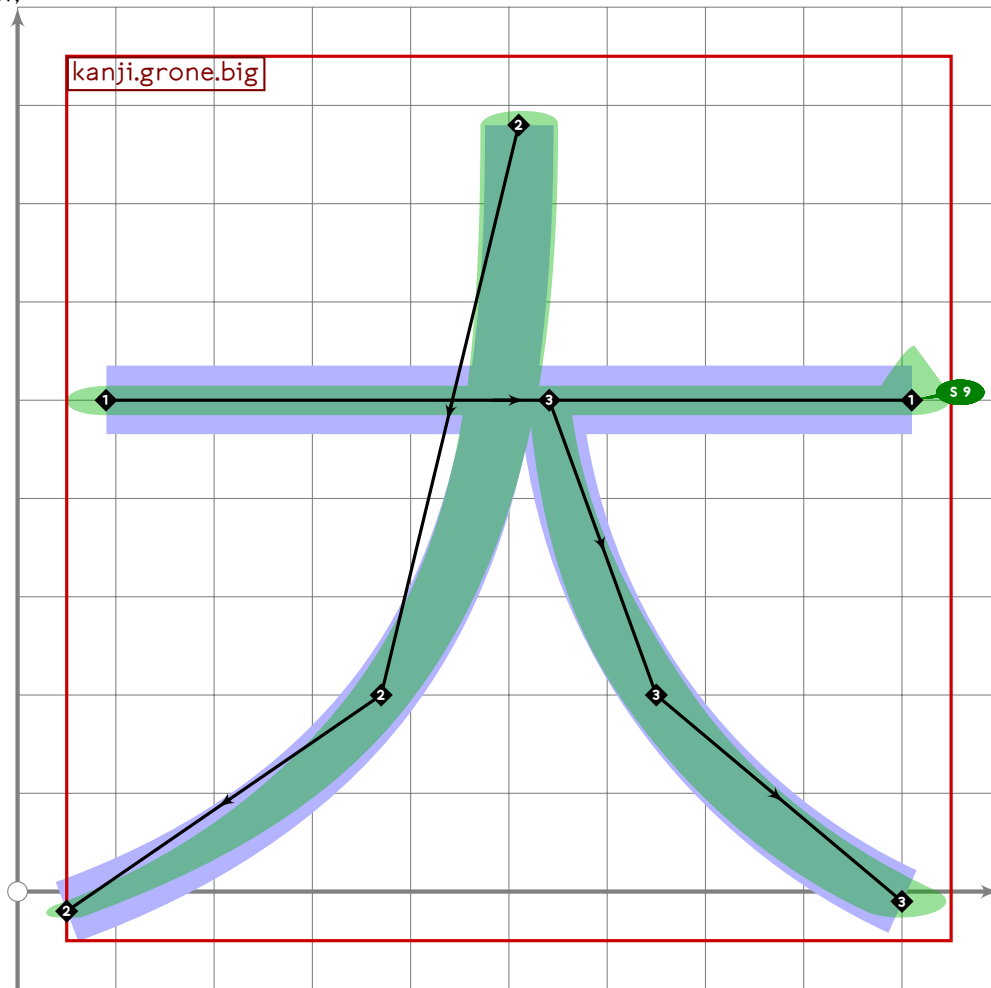
50
51 vardef kanji.grone.bamboo =
52   push_pbox_toexpand("kanji.grone.bamboo");
53   push_stroke((250,780)..(190,590)..(70,420),
54     (1.7,1.7)–(1.6,1.6)–(1.2,1.2));
55   set_boserif(0,0,10);
56   push_stroke((190,590)–(490,590),
57     (1.6,1.6)–(1.6,1.6));
58   set_boserif(0,1,9);
59   push_stroke((310,590)–(310,-50),
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));

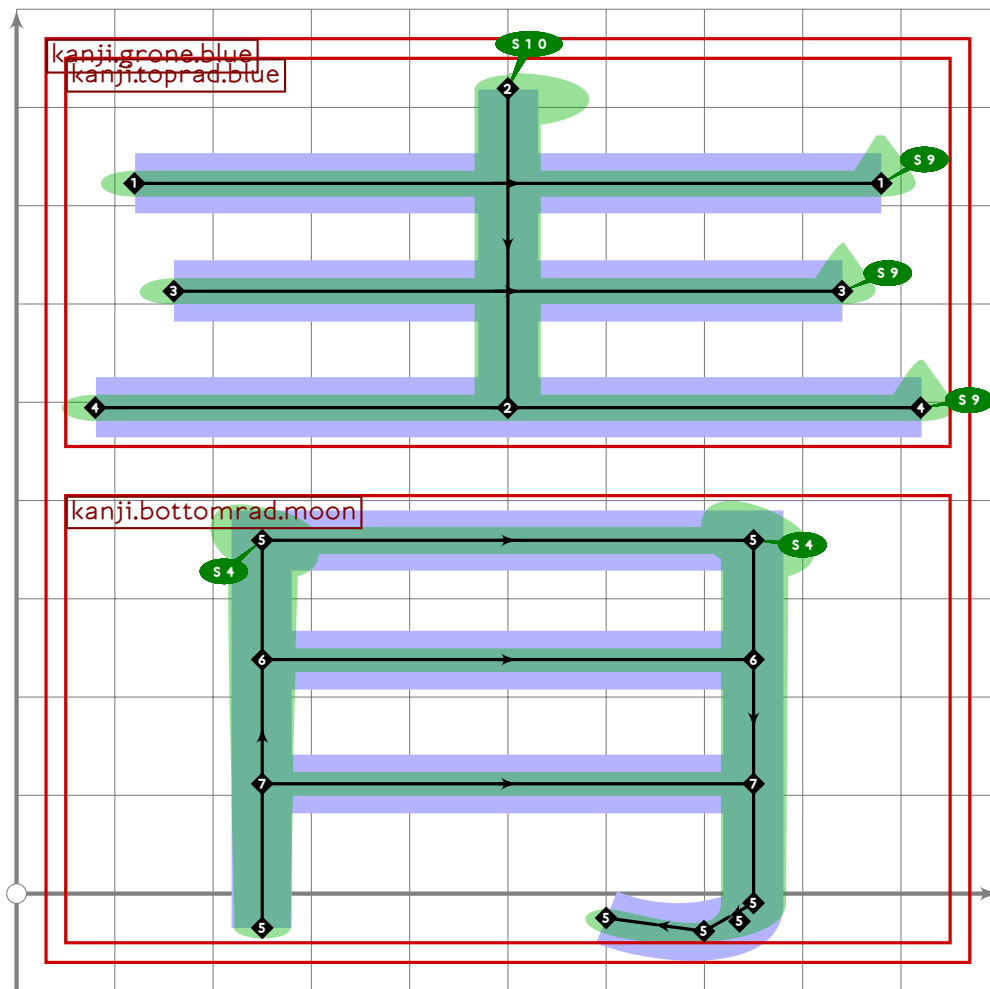
80 push\_stroke(((get\_stroke(-1) intersectionpoint get\_stroke(0))+(50,0))..

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

82 (1.1,1.1)–(1.5,1.5)–(1.7,1.7));

83 expand\_pbox;

84 enddef;

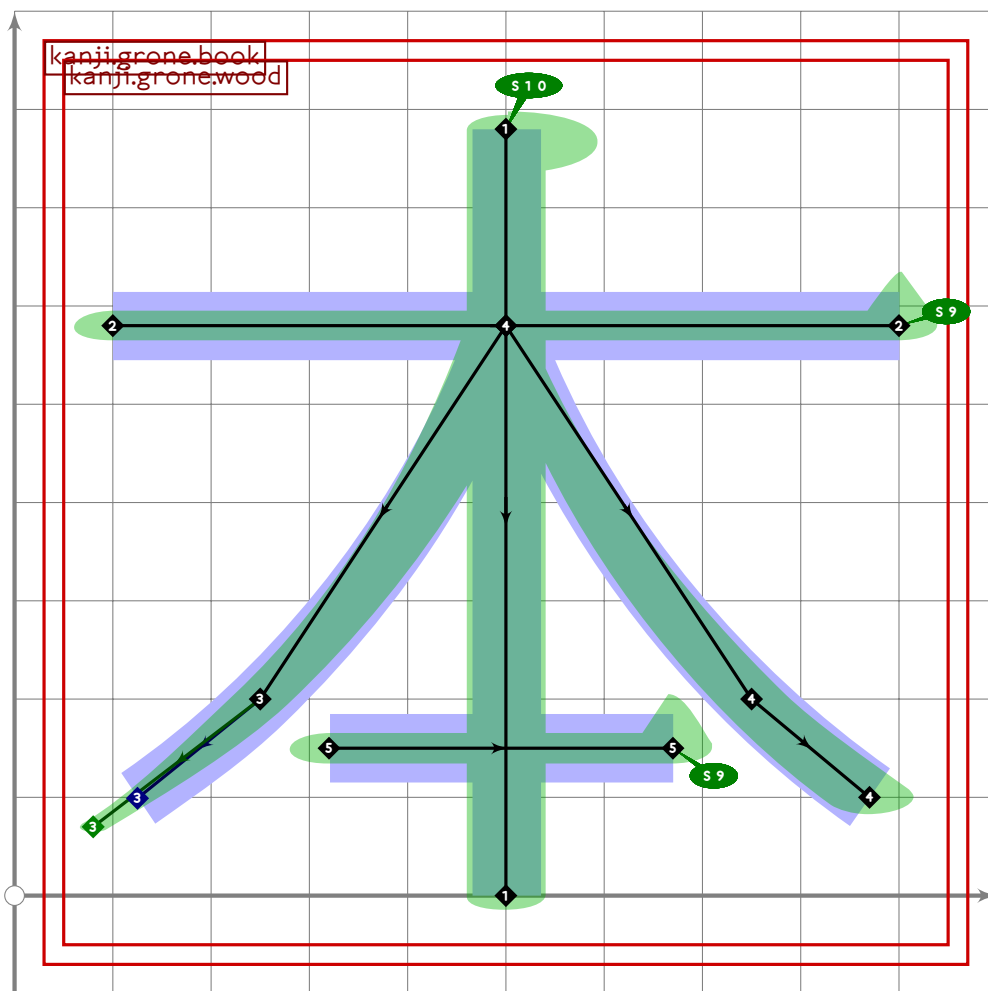


```

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;

```

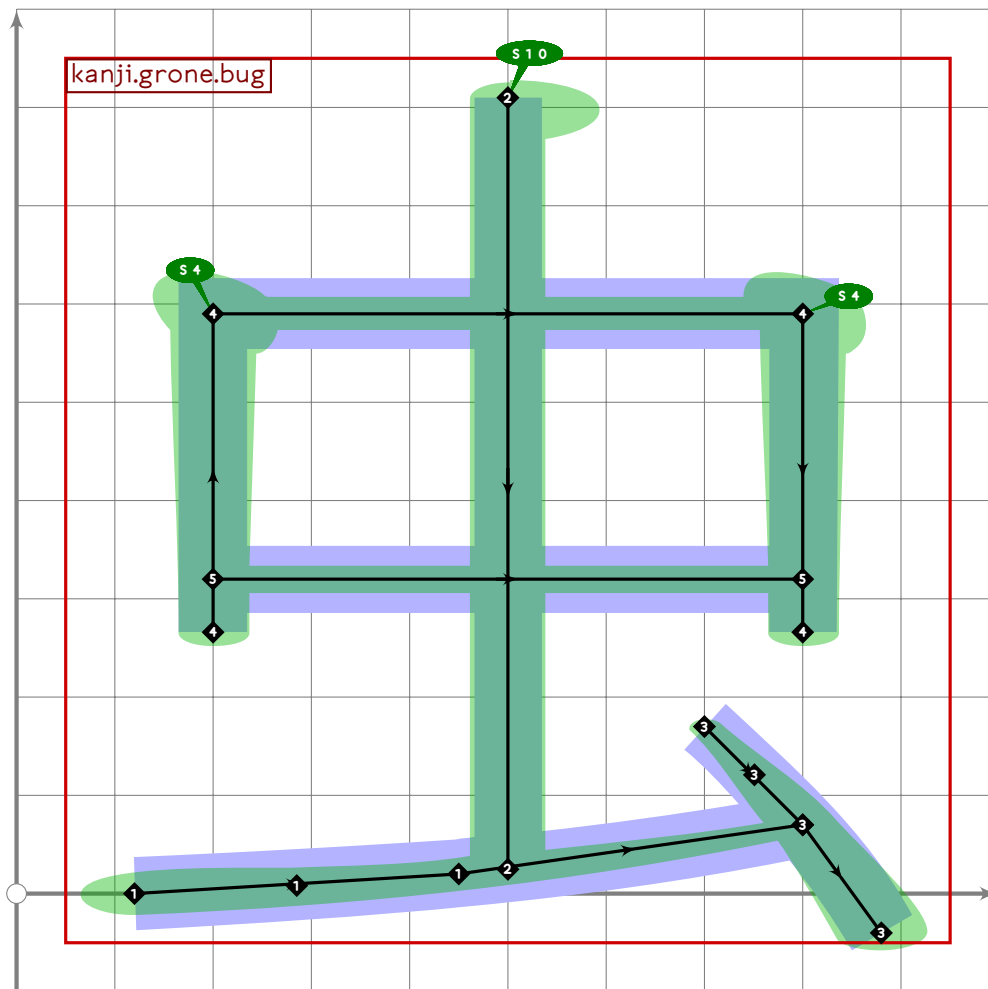
ONE



```

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_boserif(0,1,9);
100   expand_pbox;
101 enddef;

```

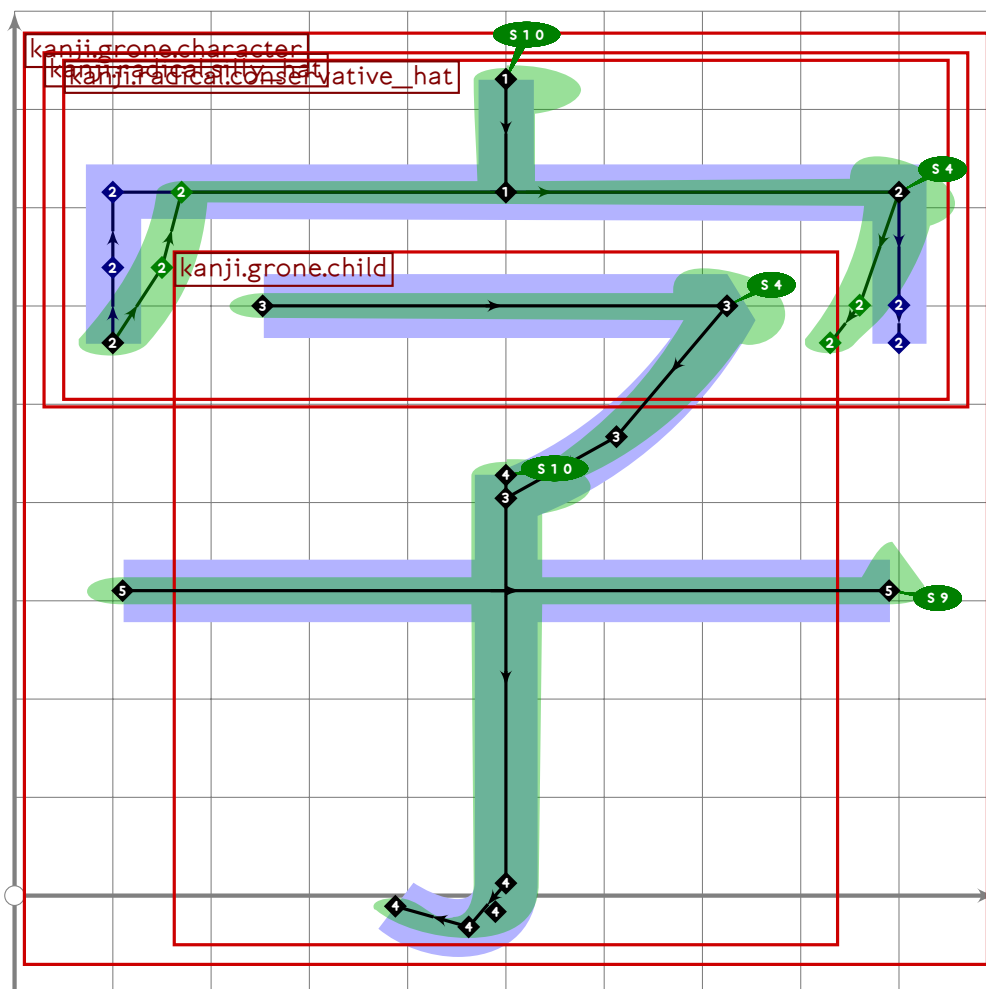


```

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_stroke(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;

```

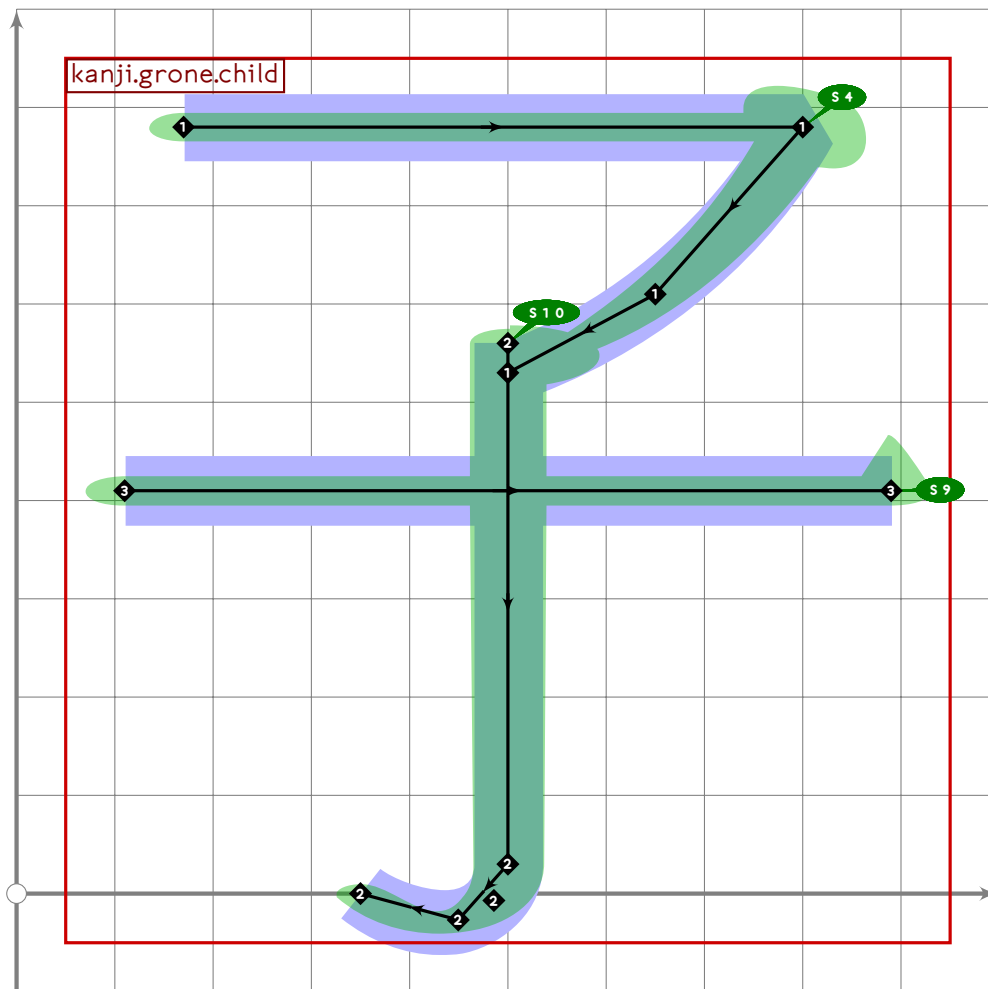
ONE



```

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_stroke(0);
127           replace_stroke(0)(charsvp));
128     endgroup;
129   expand_pbox;
130 enddef;

```

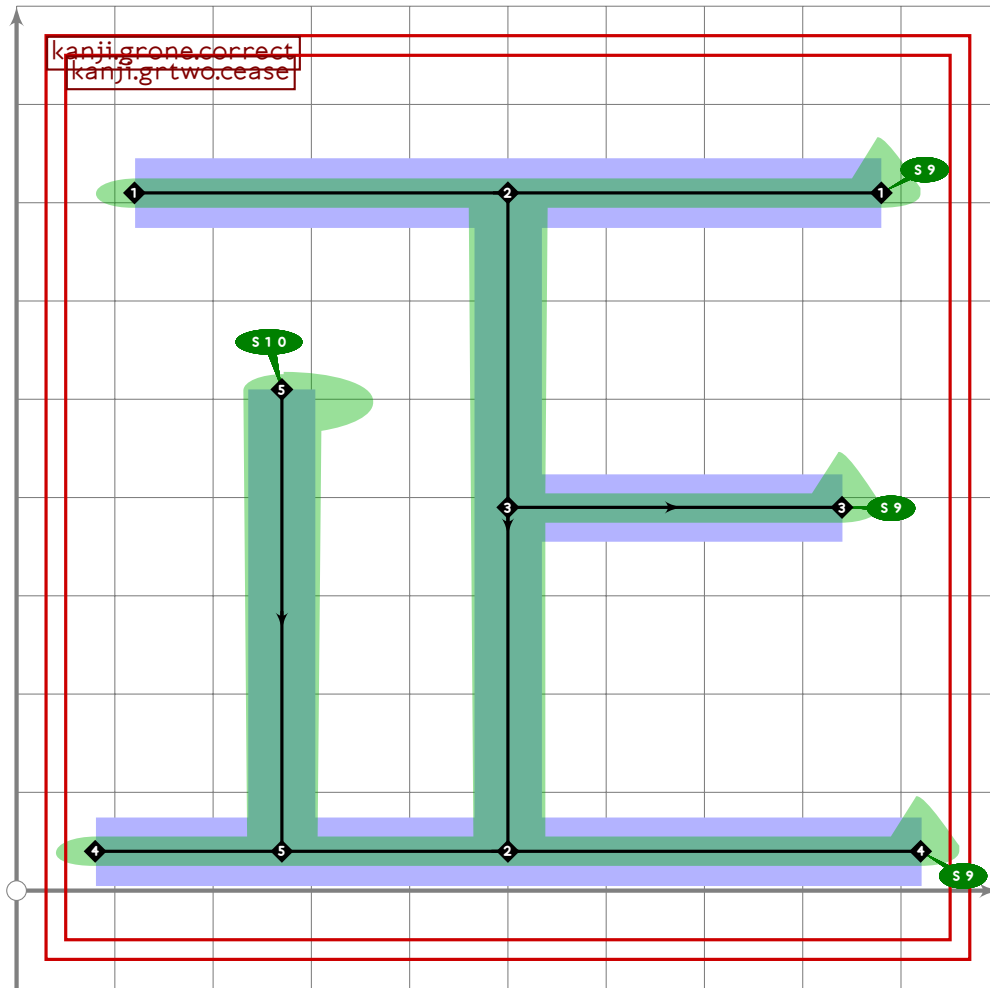


```

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(0,14);
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;

```

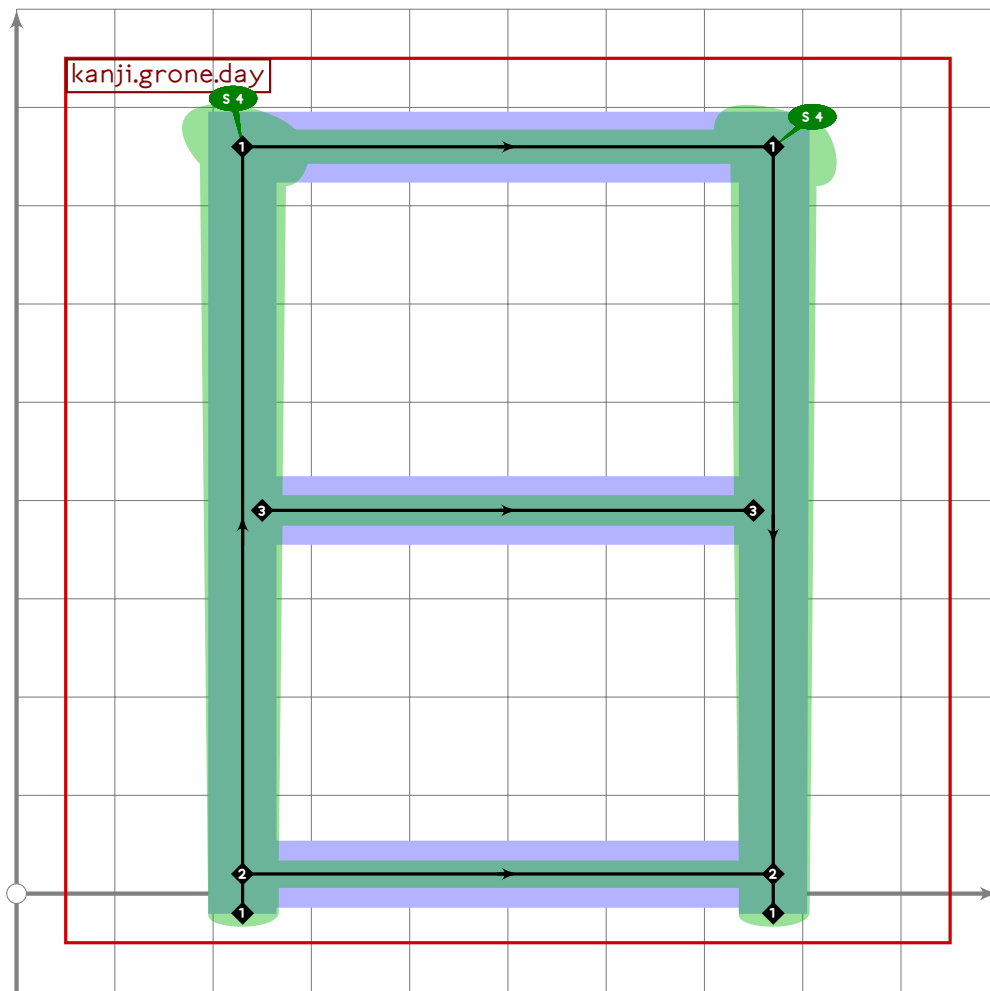
ONE



```

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;

```



```

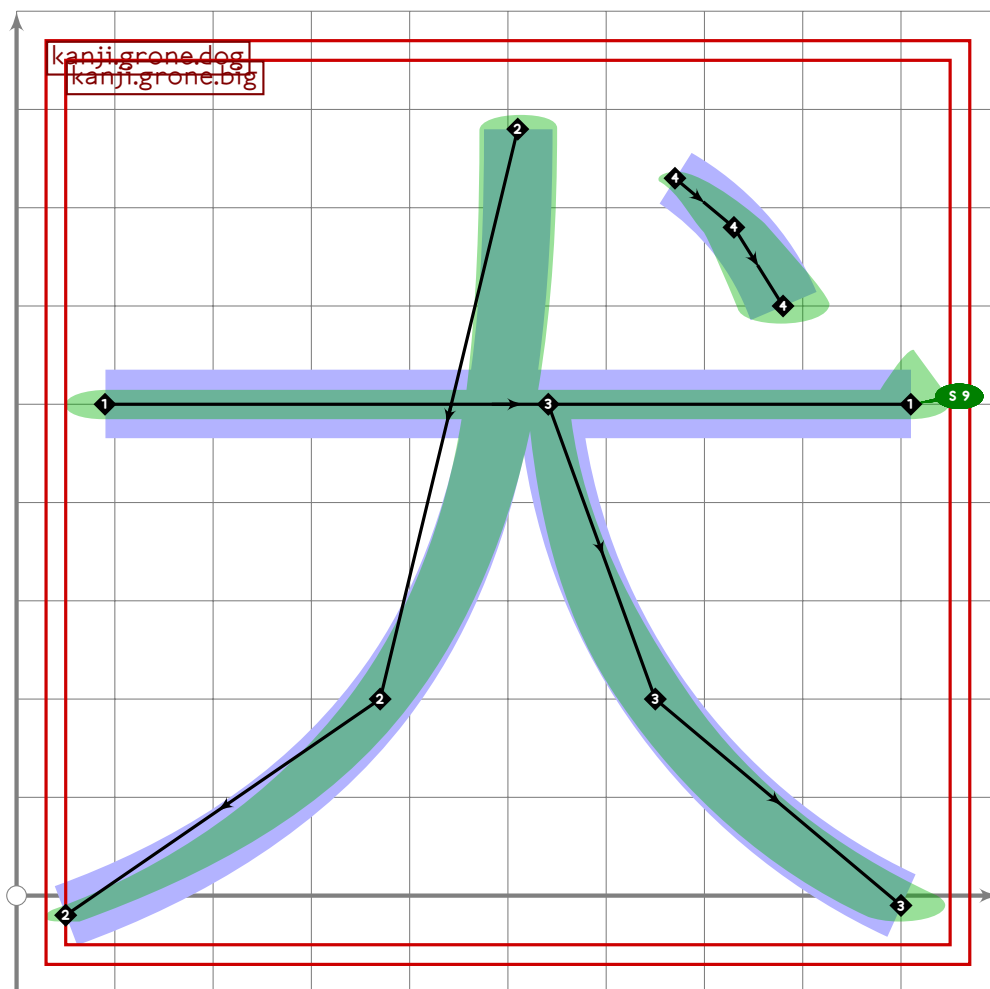
156
157 vardef kanji.grone.day =
158   push_pbox_toexpand("kanji.grone.day");
159   build_kanji.box((230,760),(770,20));
160   push_stroke((250,390)–(750,390),
161     (1.6,1.6)–(1.6,1.6));
162   expand_pbox;
163 enddef;

```



U+72AC  
tsuku.uni72AC

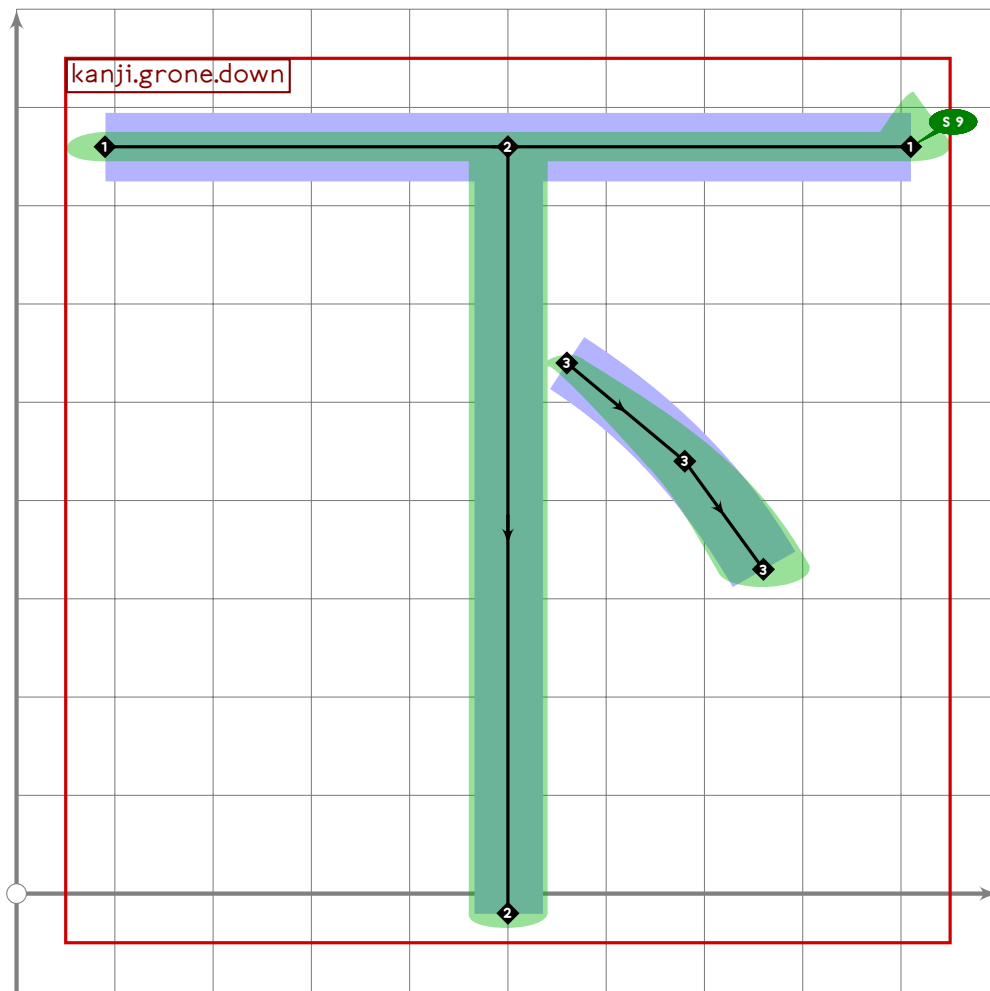
ONE



```

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)-(18,18));
170   expand_pbox;
171 enddef;

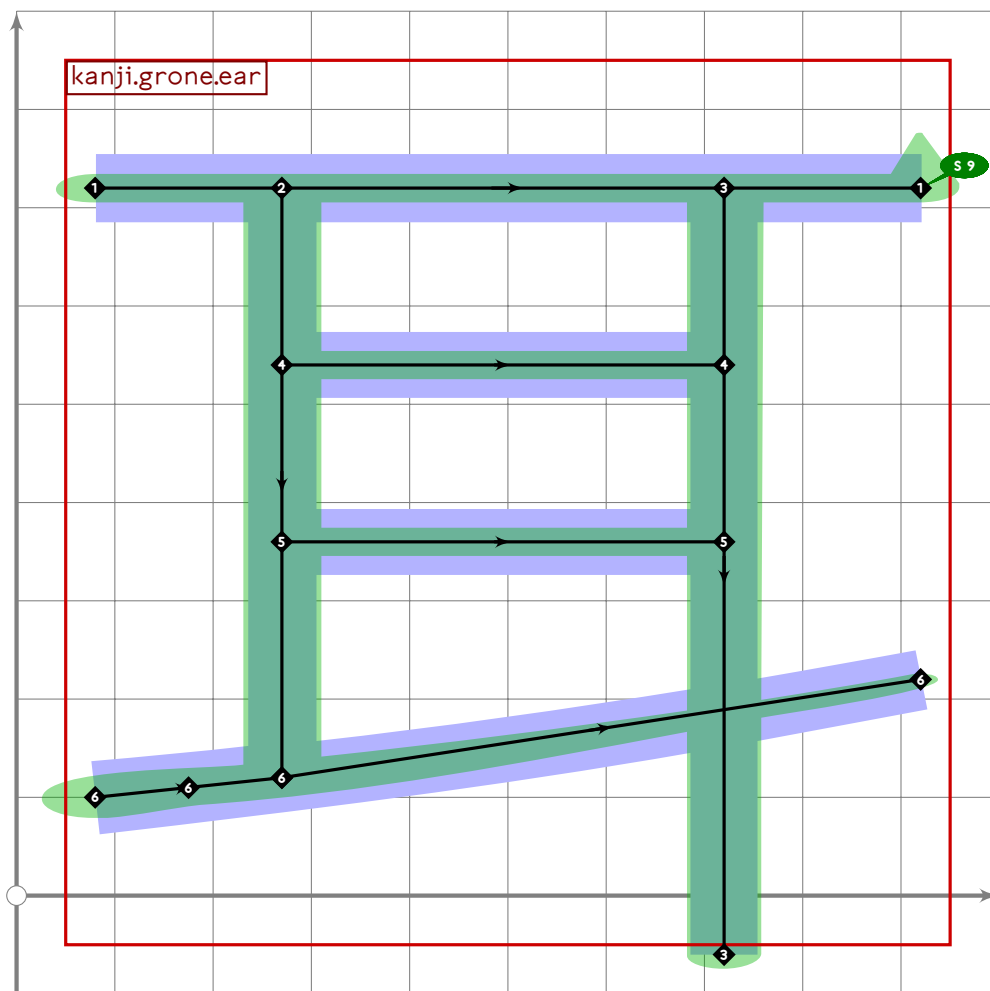
```



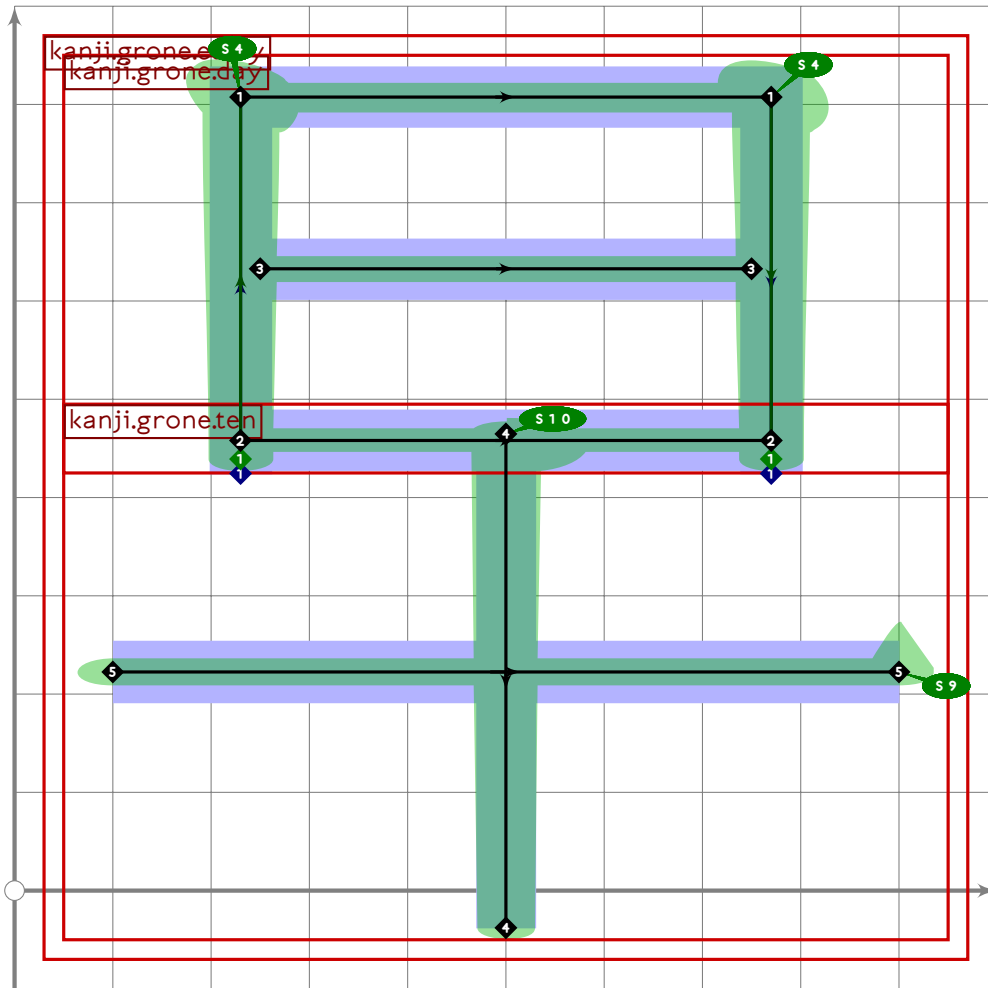
```

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;

```



432

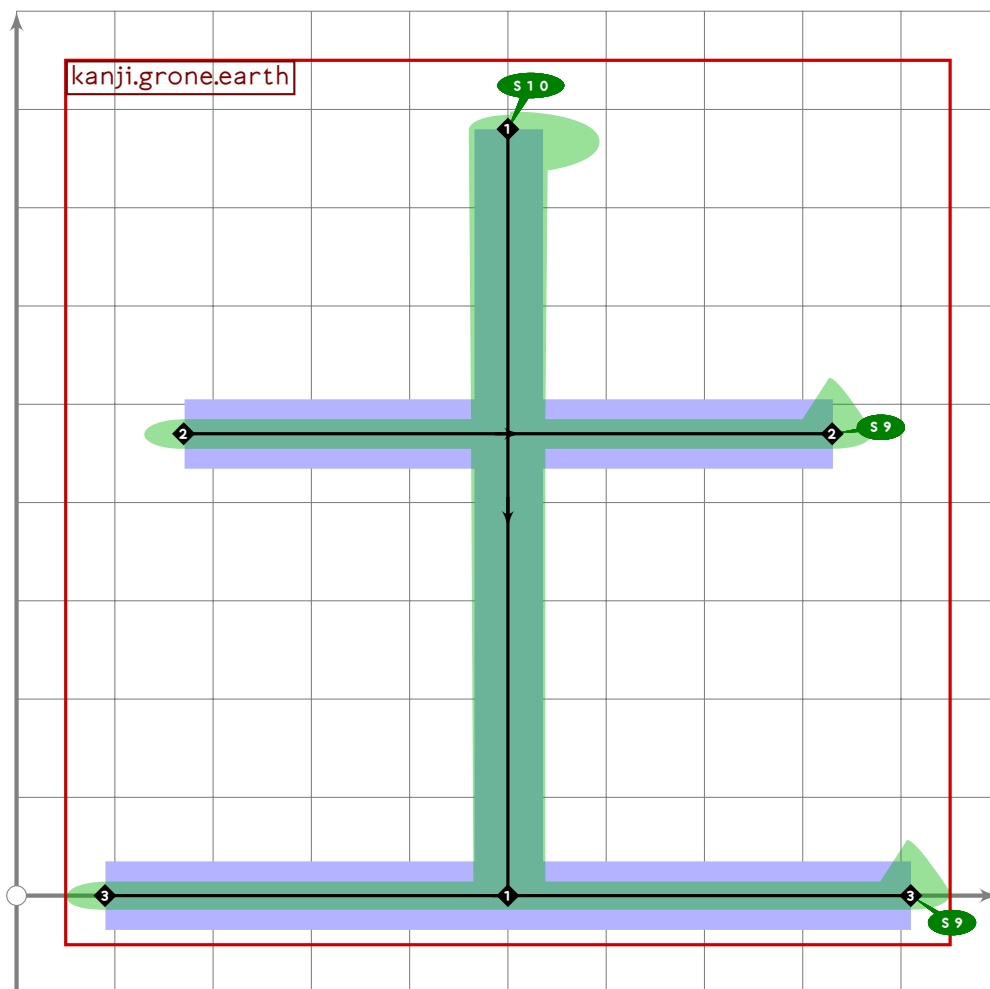


```

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;

```

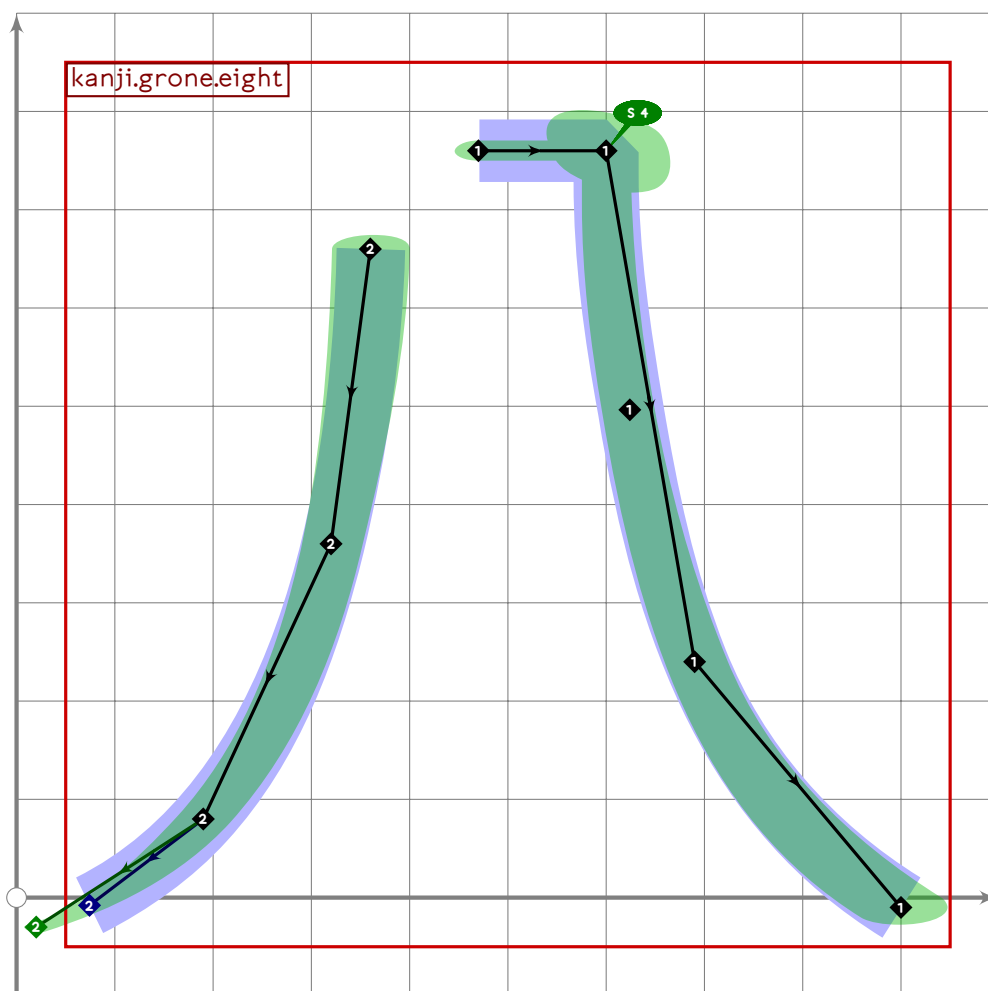
ONE



```

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;

```

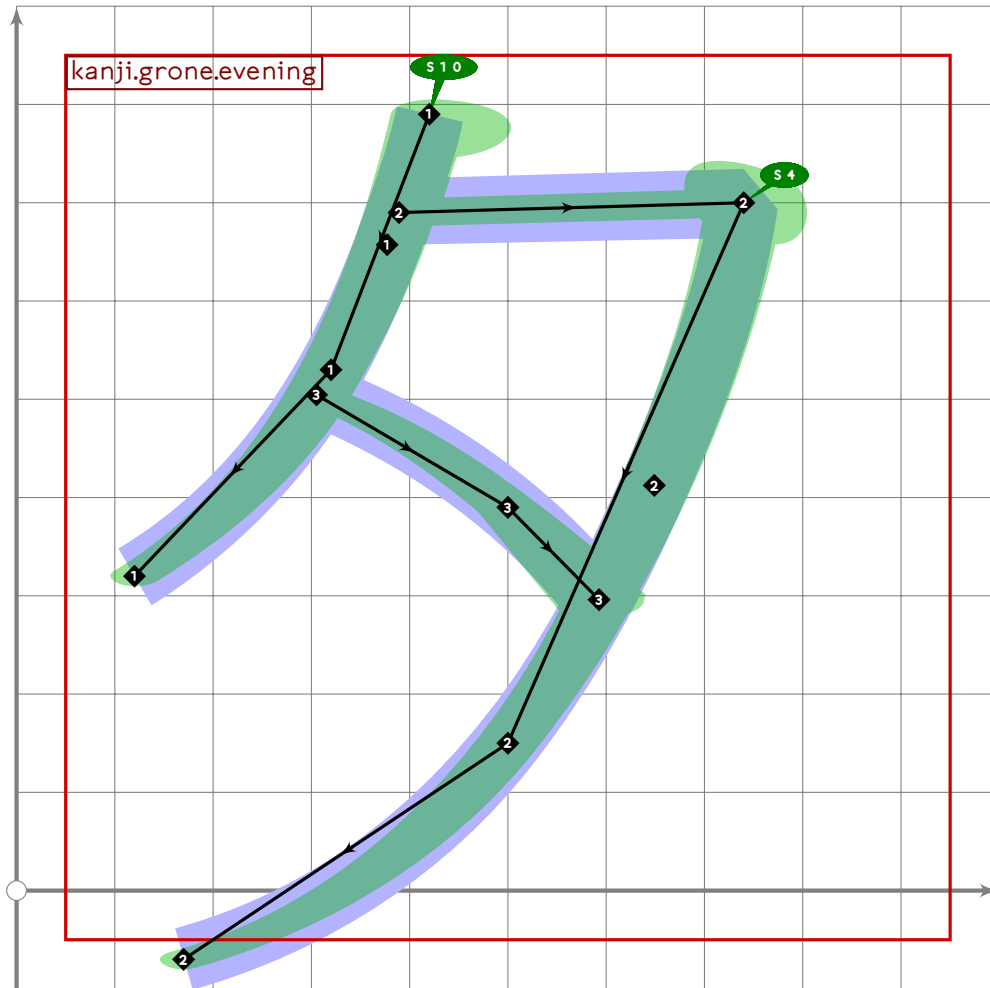


```

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)–(14,14)–(18,1.8));
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)–(14,14)–(1.3,1.3)–(0.88,0.88));
234   expand_pbox;
235 enddef;

```

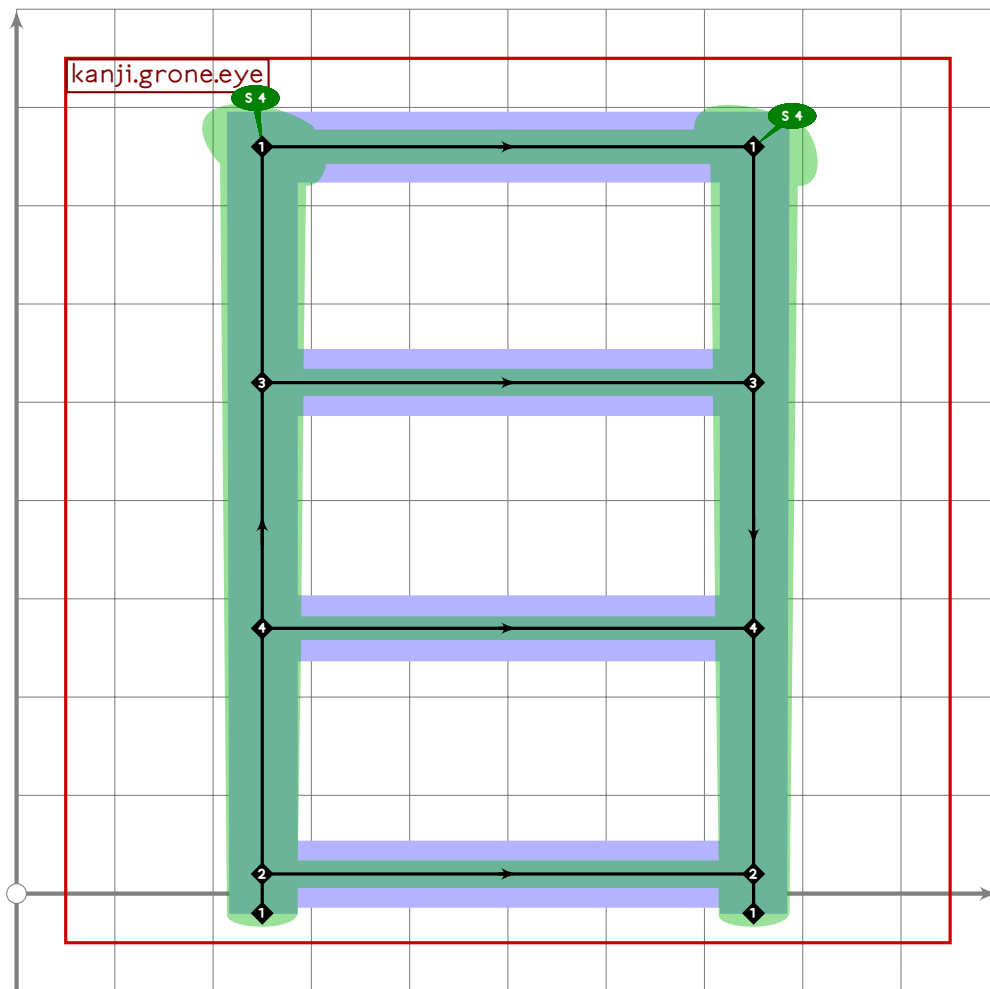
ONE



```

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_stroke(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_stroke(1))..(500,390)..(point 1.7 of get_stroke(0)),
250     (1.2,1.2)–(1.4,1.4)–(1.8,1.8));
251   expand_pbox;
252 enddef;

```



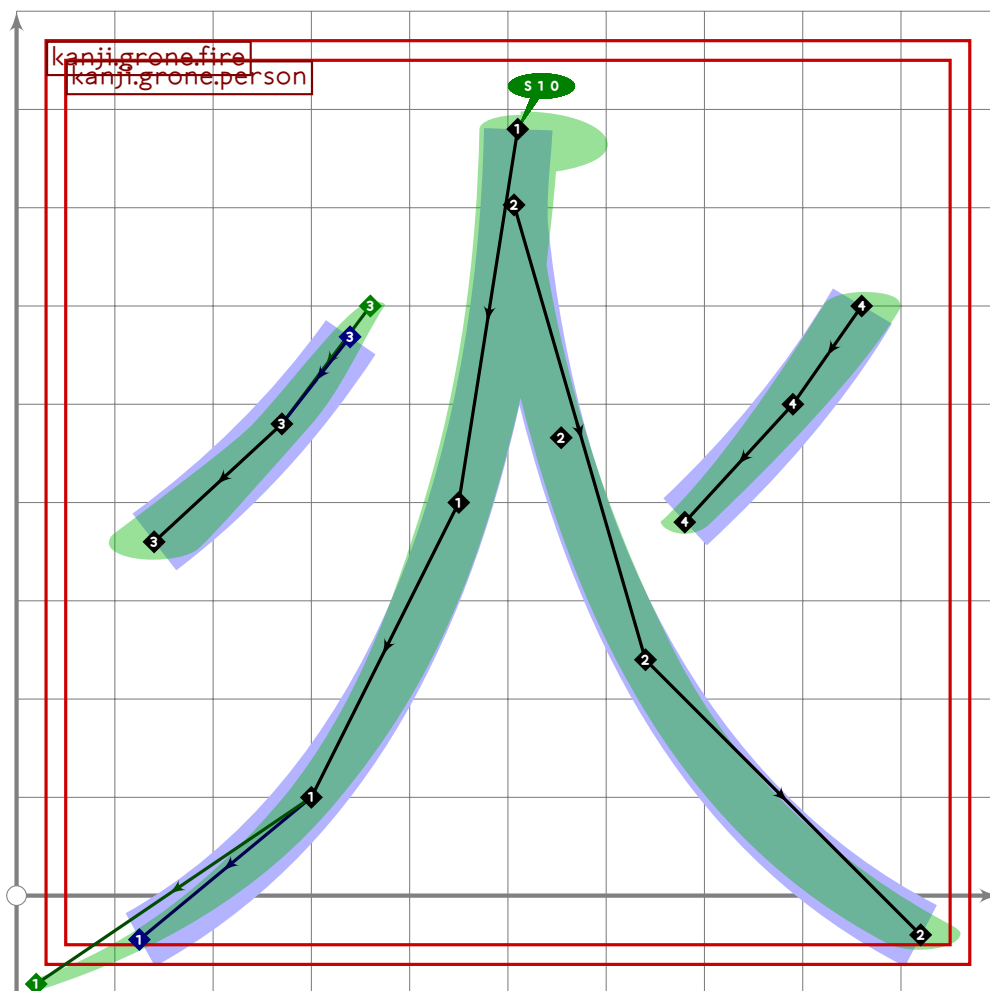
```

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;

```



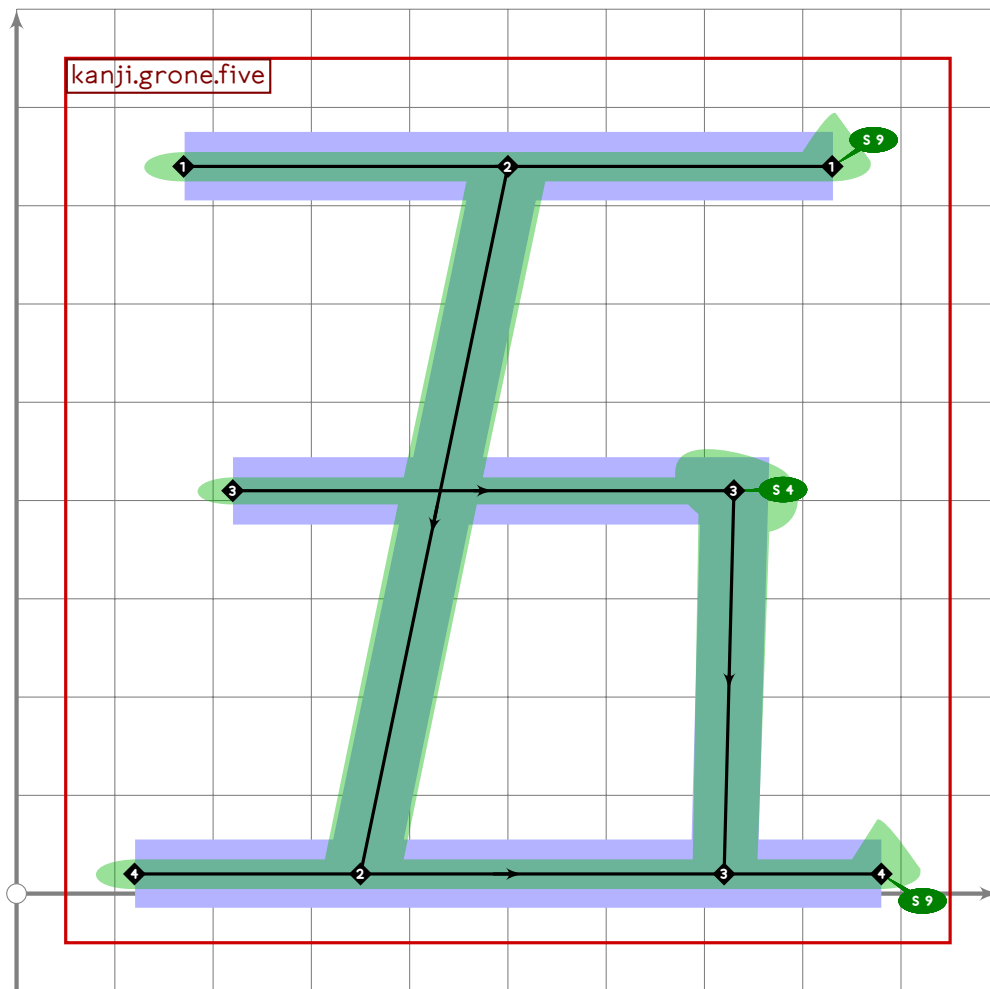
ONE



```

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     (0,9,0.9)-(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;

```

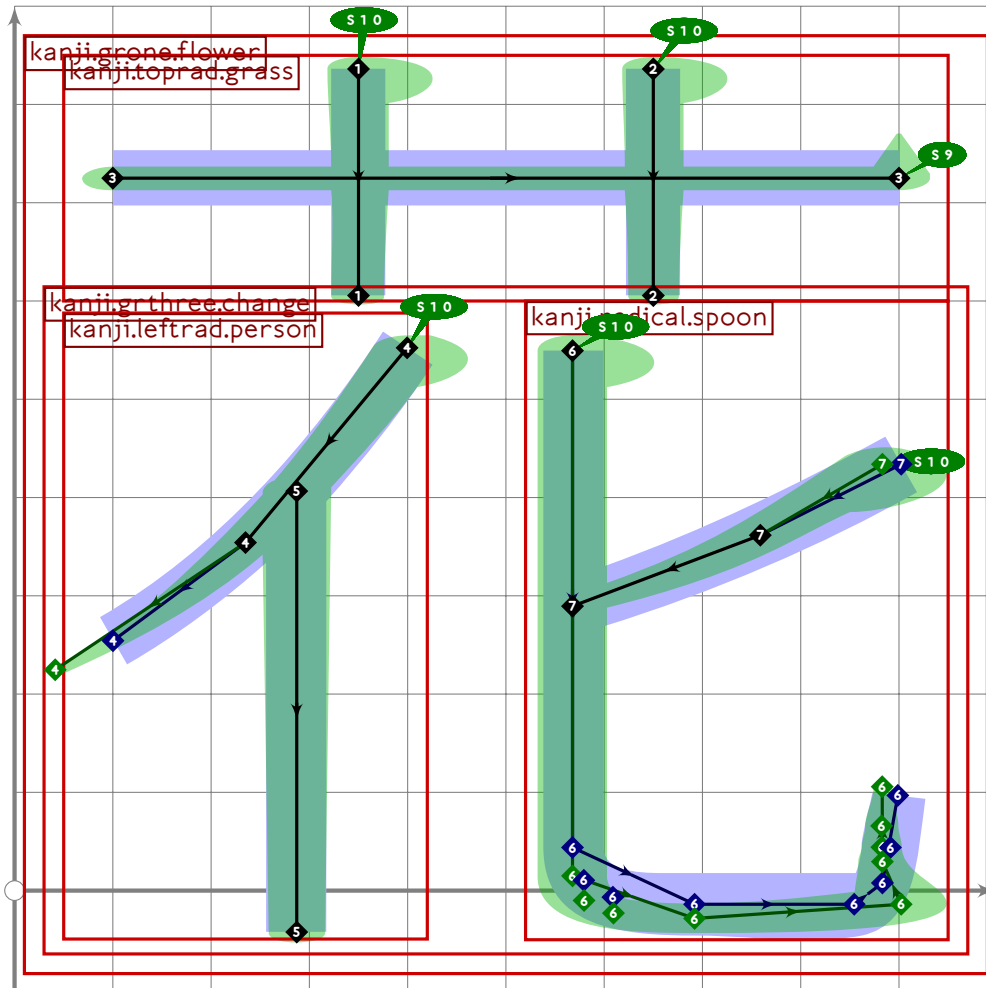


```

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;

```

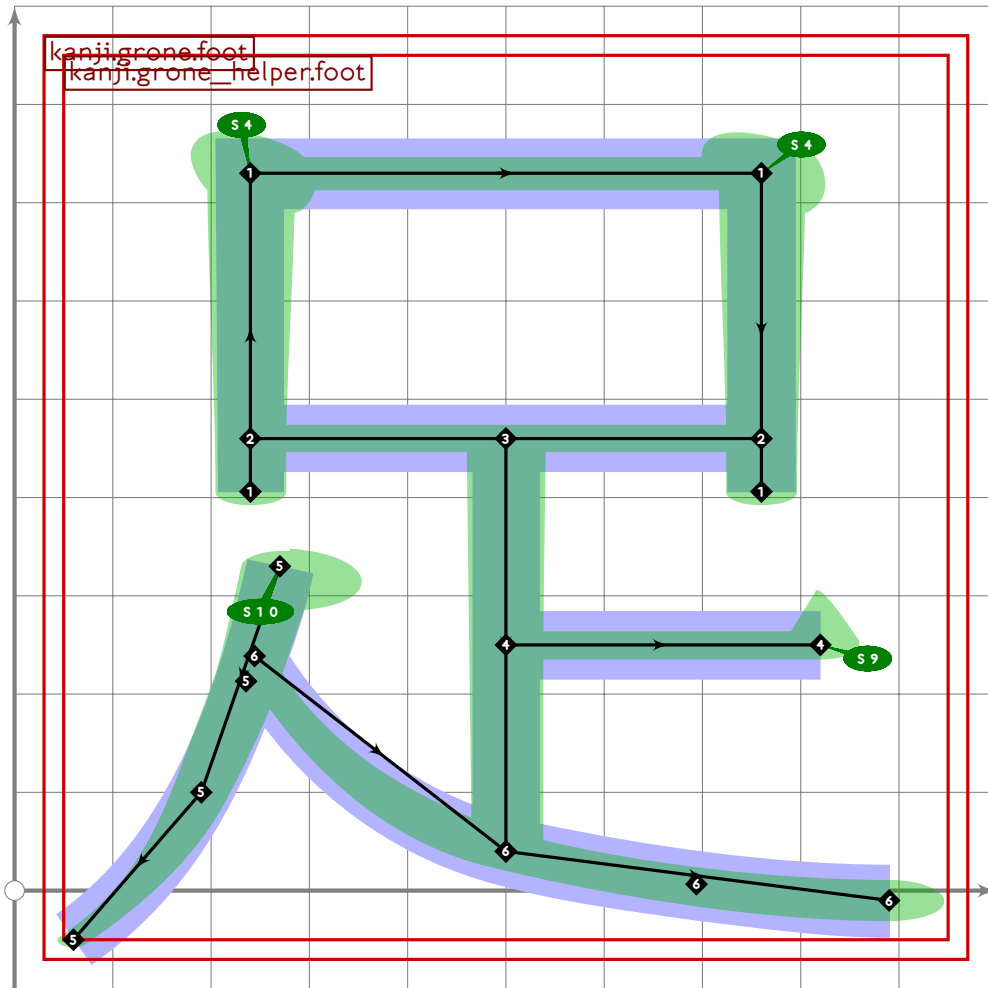
ONE



```

290
291 vardef kanji.grone.flower =
292   push_pbox_toexpand("kanji.grone.flower");
293   build_kanji.tb(600,0)
294     (kanji.toprad.grass)
295     (kanji.grthree.change);
296   expand_pbox;
297 enddef;
298
299 vardef kanji.grone_helper.foot =
300   push_pbox_toexpand("kanji.grone_helper.foot");
301   push_stroke((270,330)..tension 1.3..(190,100)..(60,-50),
302     (1.6,1.6)-(1.3,1.3)-(1,1));
303   set_boserif(0,0,10);
304   push_stroke((point 0.4 of get_stroke(0))..(500,40)..tension 1.5..(890,-10),
305     (1,1)-(1.7,7)-(2,2));
306   expand_pbox;
307 enddef;

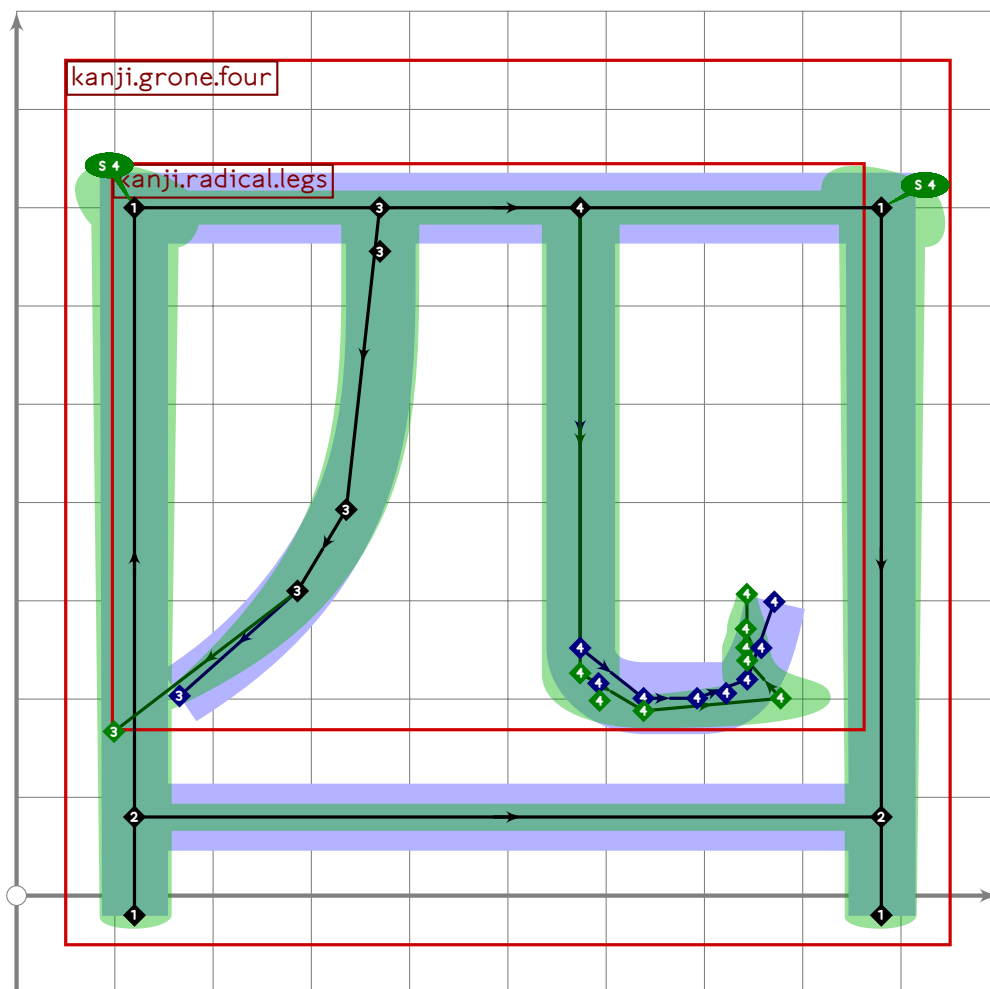
```



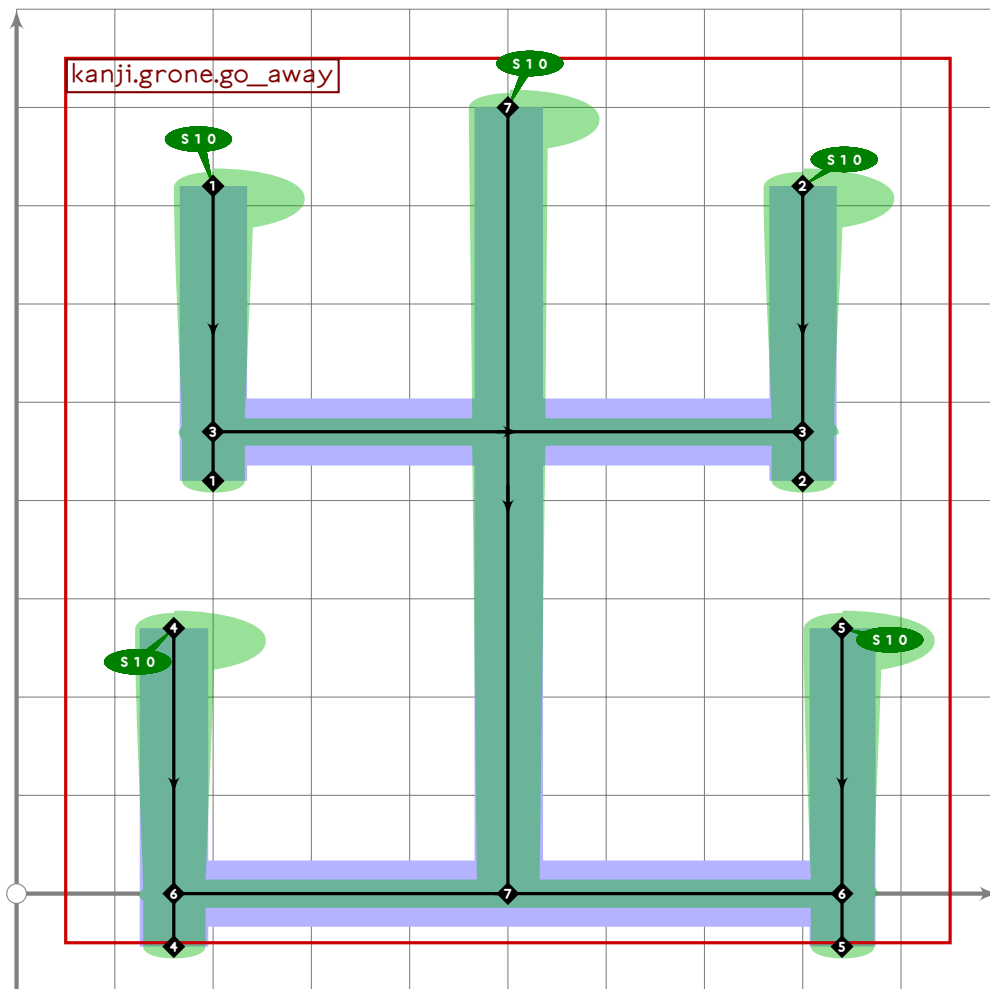
```

308
309 vardef kanji.grone.foot =
310   push_pbox_toexpand("kanji.grone.foot");
311   build_kanji.box((240,730),(760,460));
312   push_stroke((500,460)–(500,40),(1.6,1.6)–(1.5,1.5));
313   push_stroke((500,250)–(820,250),(1.5,1.5)–(1.6,1.6));
314   set_boserif(0,1,9);
315   kanji.grone_helper.foot;
316   expand_pbox;
317 enddef;

```



442

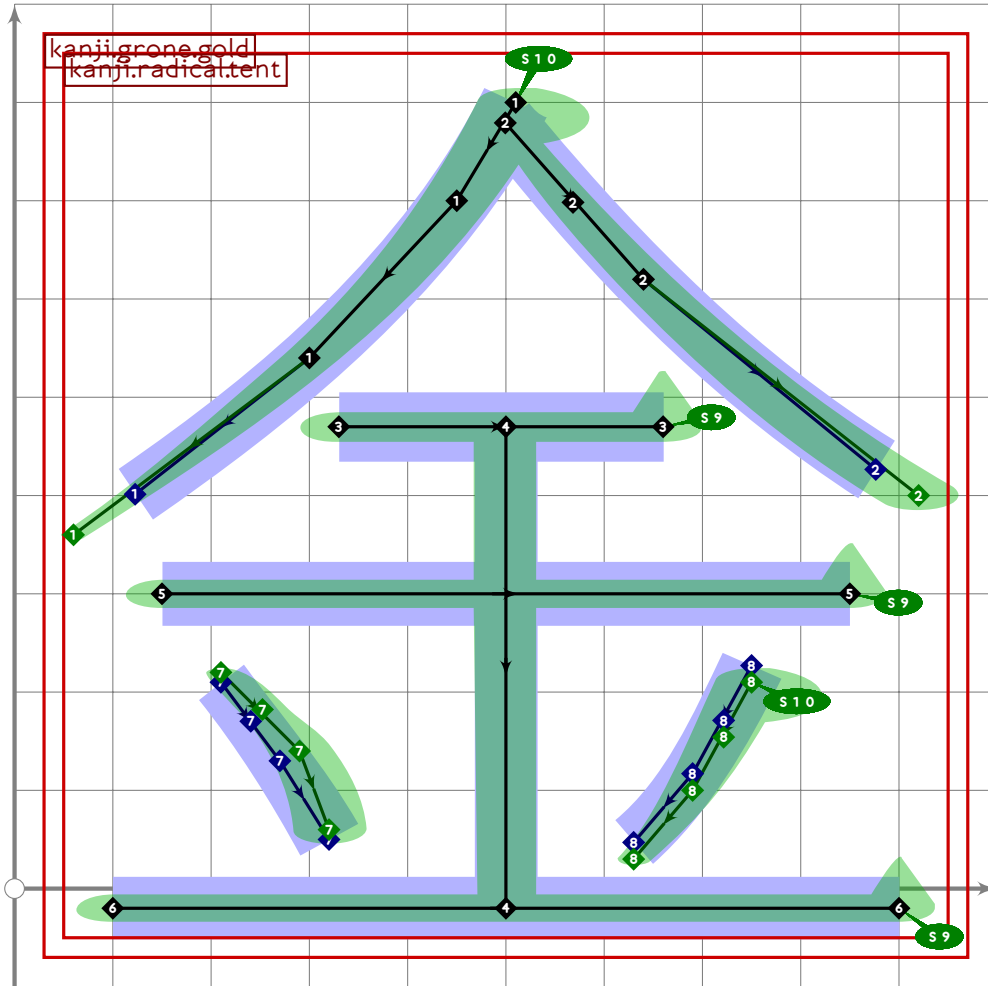


```

328
329 vardef kanji.grone.go_away =
330   push_pbox_toexpand("kanji.grone.go_away");
331   build_kanji.cup((200,720),(800,470));
332   build_kanji.cup((160,270),(840,0));
333   push_stroke((500,800)-(500,0),
334     (1,6,1,6)-(14,14));
335   set_boserif(0,0,10);
336   expand_pbox;
337 enddef;

```

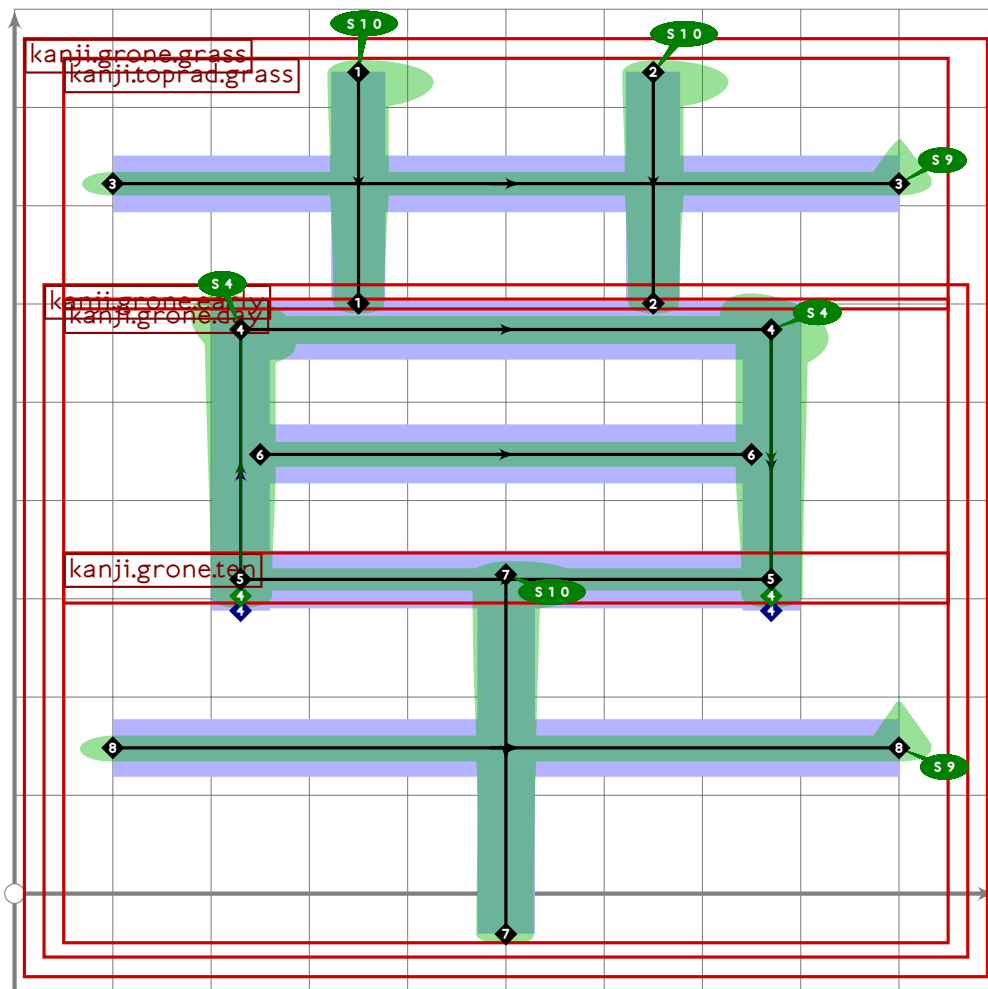
ONE



```

338
339 vardef kanji.grone.gold =
340   push_pbox_toexpand("kanji.grone.gold");
341   kanji.radical.tent;
342   push_stroke((500,470)-(500,-20),(1.5,1.5)-(1.4,1.4));
343   push_stroke((150,300)-(850,300),(1.6,1.6)-(1.6,1.6));
344   set_boserif(0,1,9);
345   push_stroke((100,-20)-(900,-20),(1.6,1.6)-(1.6,1.6));
346   set_boserif(0,1,9);
347   push_stroke(((210,220)..tension 1.3..(270+20*mincho,140)..(320,60))
348     shifted ((1-mincho)*10*down),
349     (1,1)-(1.5,1.5)-(1.6,1.6));
350   push_stroke(((750,210)..tension 1.3..(690,100)..(630,30))
351     shifted ((1-mincho)*17*up),
352     (1.6,1.6)-(1.3,1.3)-(1,1));
353   set_boserif(0,0,10);
354   for i=-4 upto 0: set_bosize(i,93); endfor;
355   expand_pbox;
356 enddef;

```



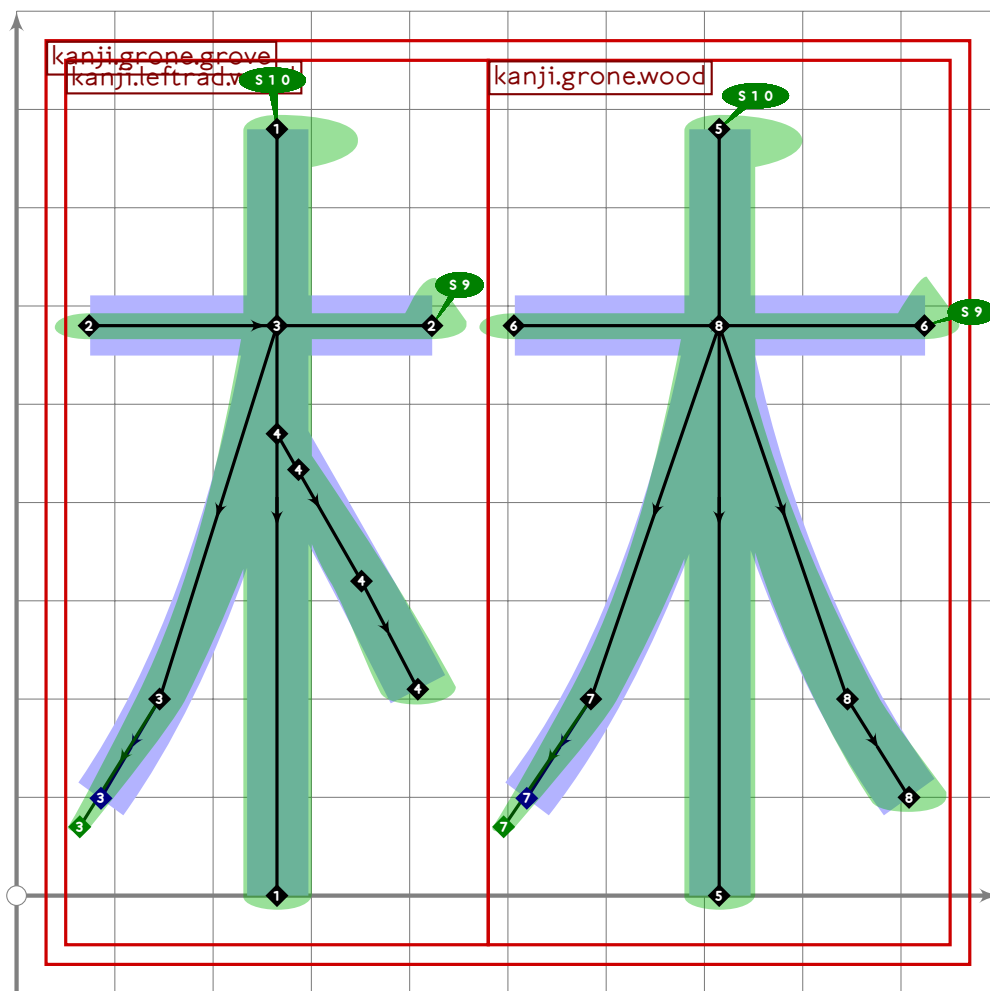
```

357
358 vardef kanji.grone.grass =
359   push_pbox_toexpand("kanji.grone.grass");
360   build_kanji.tb(600,10)
361     (kanji.toprad.grass)
362     (kanji.grone.early);
363   expand_pbox;
364 enddef;

```



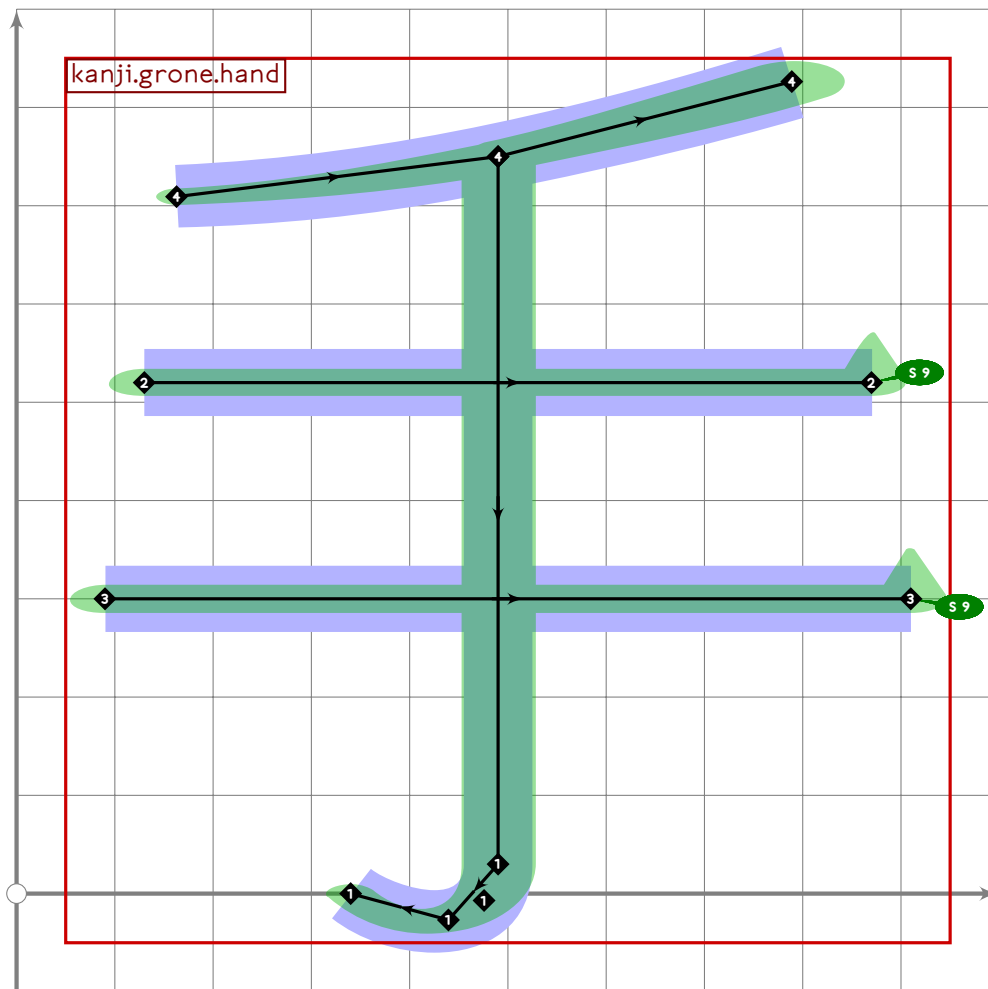
ONE



```

365
366 vardef kanji.grone.grove =
367   push_pbox_toexpand("kanji.grone.grove");
368   build_kanji.lr(480,0)
369     (kanji.leftrad.wood)
370     (kanji.grone.wood);
371   expand_pbox;
372 enddef;

```

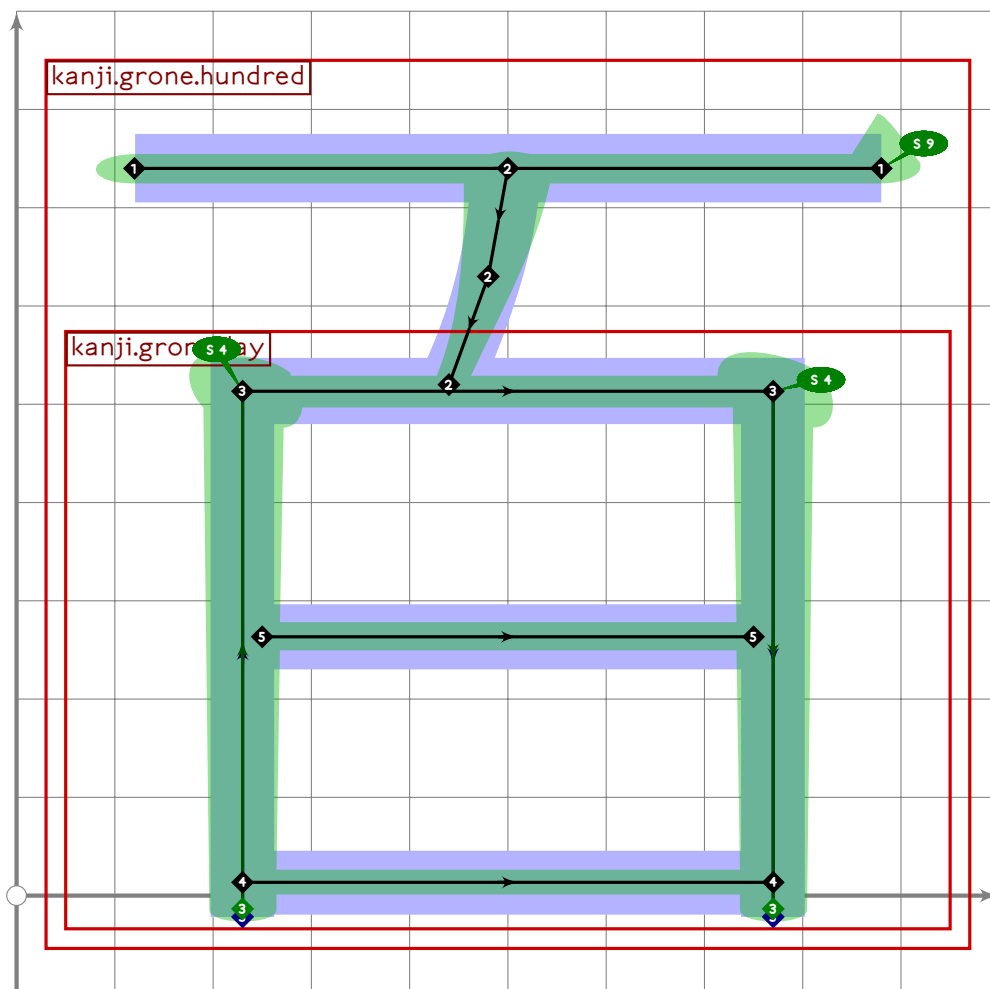


```

373
374 vardef kanji.grone.hand =
375   push_pbox_toexpand("kanji.grone.hand");
376   build_kanji.add_beret(
377     push_stroke((490,750),(1.6,1.6));
378     build_kanji.add_jtail(0);
379     push_stroke((130,520)-(870,520),(1.5,1.5)-(1.5,1.5));
380     set_boserif(0,1,9);
381     push_stroke((90,300)-(910,300),(1.5,1.5)-(1.5,1.5));
382     set_boserif(0,1,9);
383   );
384   expand_pbox;
385 enddef;

```

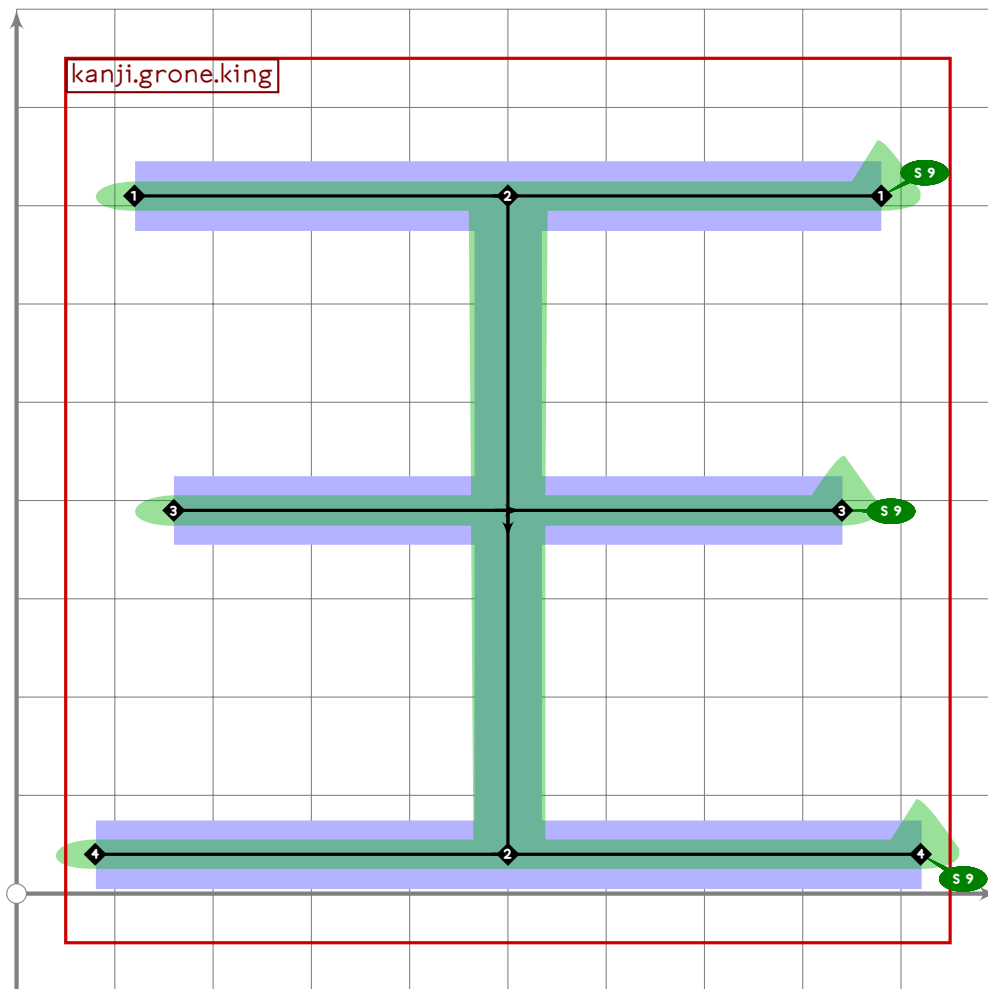
ONE



```

386
387 vardef kanji.grone.hundred =
388   push_pbox_toexpand("kanji.grone.hundred");
389   push_stroke((120,740)-(880,740),
390     (1.6,1.6)-(1.6,1.6));
391   set_boserif(0,1,9);
392   push_stroke((500,740)..(480,630)..(440,520),
393     (1.7,1.7)-(1.3,1.3)-(1,1));
394   tsu_xform(identity yscaled (520/770))(kanji.grone.day);
395   expand_pbox;
396 enddef;

```

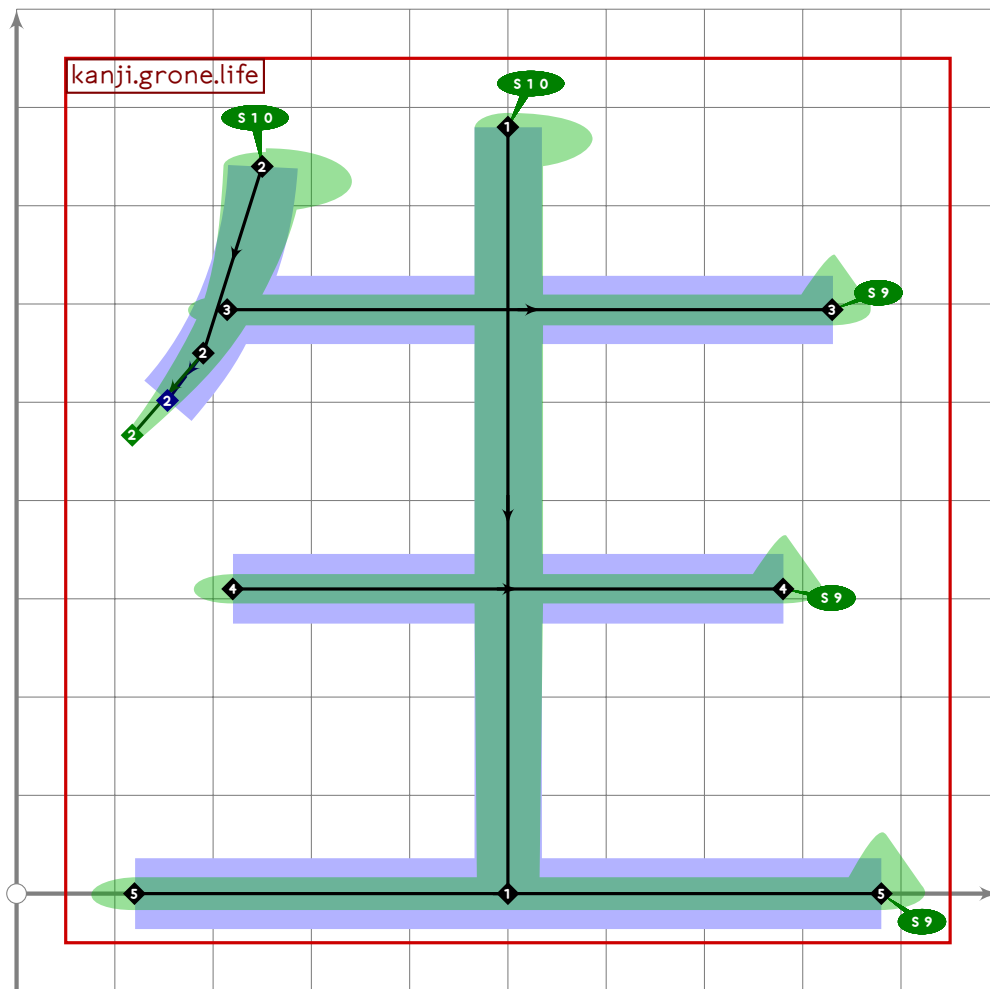


```

397
398 vardef kanji.grone.king =
399   push_pbox_toexpand("kanji.grone.king");
400   push_stroke((120,710)–(880,710),
401     (1.6,1.6)–(1.6,1.6));
402   set_boserif(0,1,9);
403   push_stroke((500,710)–(500,40),
404     (1.6,1.6)–(1.5,1.5));
405   push_stroke((160,390)–(840,390),
406     (1.6,1.6)–(1.6,1.6));
407   set_boserif(0,1,9);
408   push_stroke((80,40)–(920,40),
409     (1.6,1.6)–(1.6,1.6));
410   set_boserif(0,1,9);
411   expand_pbox;
412 enddef;

```

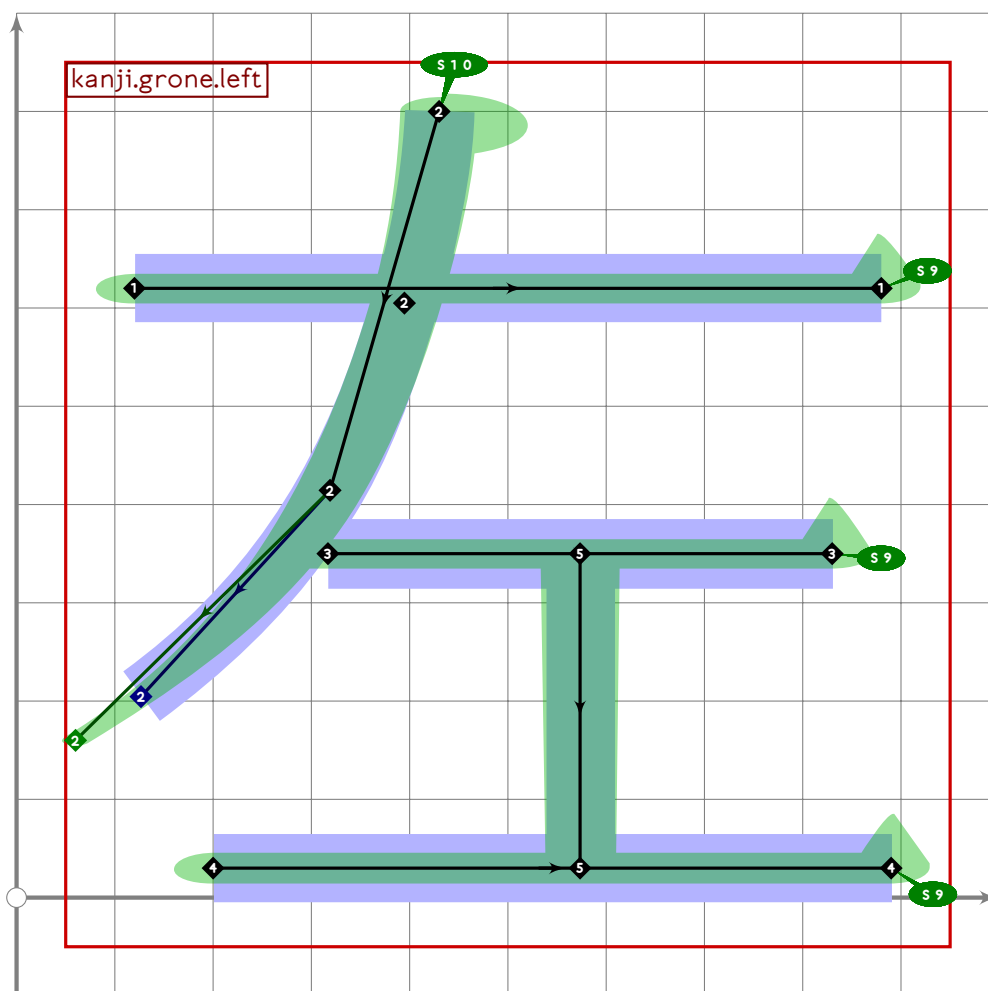
ONE



```

413
414 vardef kanji.grone.life =
415   push_pbox_toexpand("kanji.grone.life");
416   push_stroke((500,780)–(500,0),
417     (1.5,1.5)–(1.4,1.4));
418   set_boserif(0,0,10);
419   push_stroke((250,740)..(190,550)..(110,460),
420     (1.6,1.6)–(1.2,1.2)–(0.8,0.8));
421   set_boserif(0,0,10);
422   push_stroke((point 0.75 of get_stroke(0))–
423     (830,y part point 0.75 of get_stroke(0)),
424     (1.6,1.6)–(1.6,1.6));
425   set_boserif(0,1,9);
426   push_stroke((220,310)–(780,310),
427     (1.6,1.6)–(1.6,1.6));
428   set_boserif(0,1,9);
429   push_stroke((120,0)–(880,0),
430     (1.7,1.7)–(1.7,1.7));
431   set_boserif(0,1,9);
432   expand_pbox;
433 enddef;

```

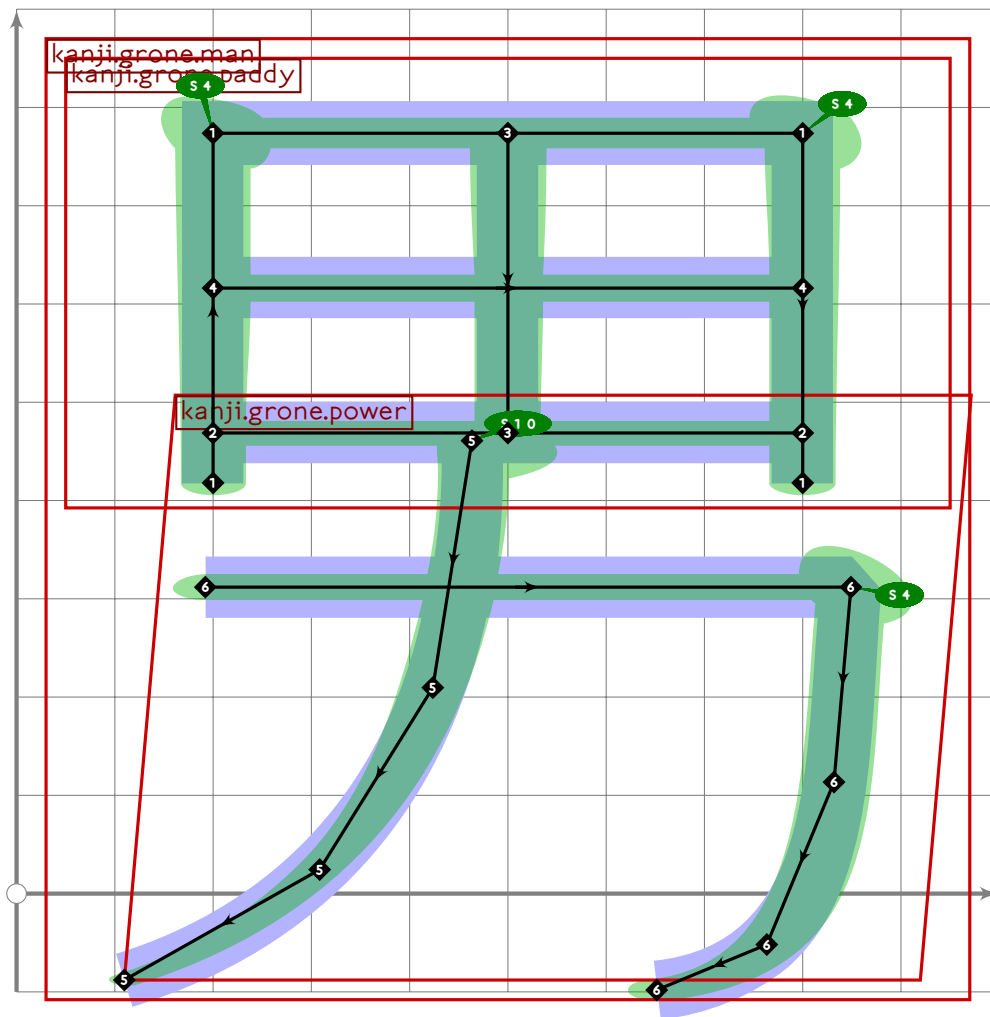


```

434
435 vardef kanji.grone.left =
436   push_pbox_toexpand("kanji.grone.left");
437   build_kanji.lean_to((430,160));
438   push_stroke(
439     (((0,350)-(1000,350)) intersectionpoint get_stroke(0))+(40,0))..
440     (830,350),
441     (1.6,1.6)-(1.6,1.6));
442   set_boserif(0,1,9);
443   push_stroke((200,30)..(890,30),
444     (1.6,1.6)-(1.6,1.6));
445   set_boserif(0,1,9);
446   push_stroke(
447     (point 0.5 of get_stroke(-1))-(xpart point 0.5 of get_stroke(-1),30),
448     (1.6,1.6)-(1.5,1.5));
449   expand_pbox;
450 enddef;

```

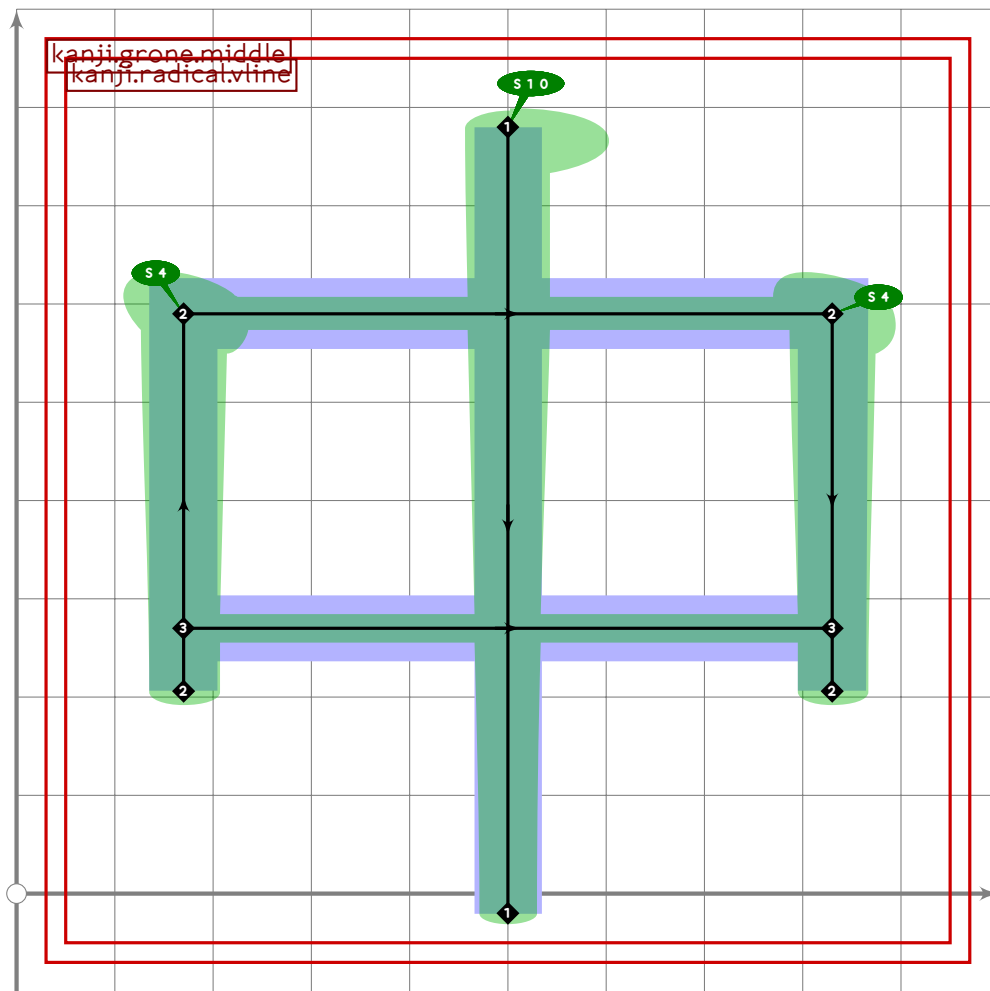
ONE



```

451
452 vardef kanji.grone.man =
453   push_pbox_toexpand("kanji.grone.man");
454   build_kanji.level(build_kanji.tb(430,75)
455     (kanji.grone.paddy)
456     (build_kanji.sscale(xyscaled (0.9,1.15) slanted 0.05 shifted (40,0))
457       (kanji.grone.power)));
458   replace_strokep(0)(oldp shifted (0,-30));
459   expand_pbox;
460 enddef;

```



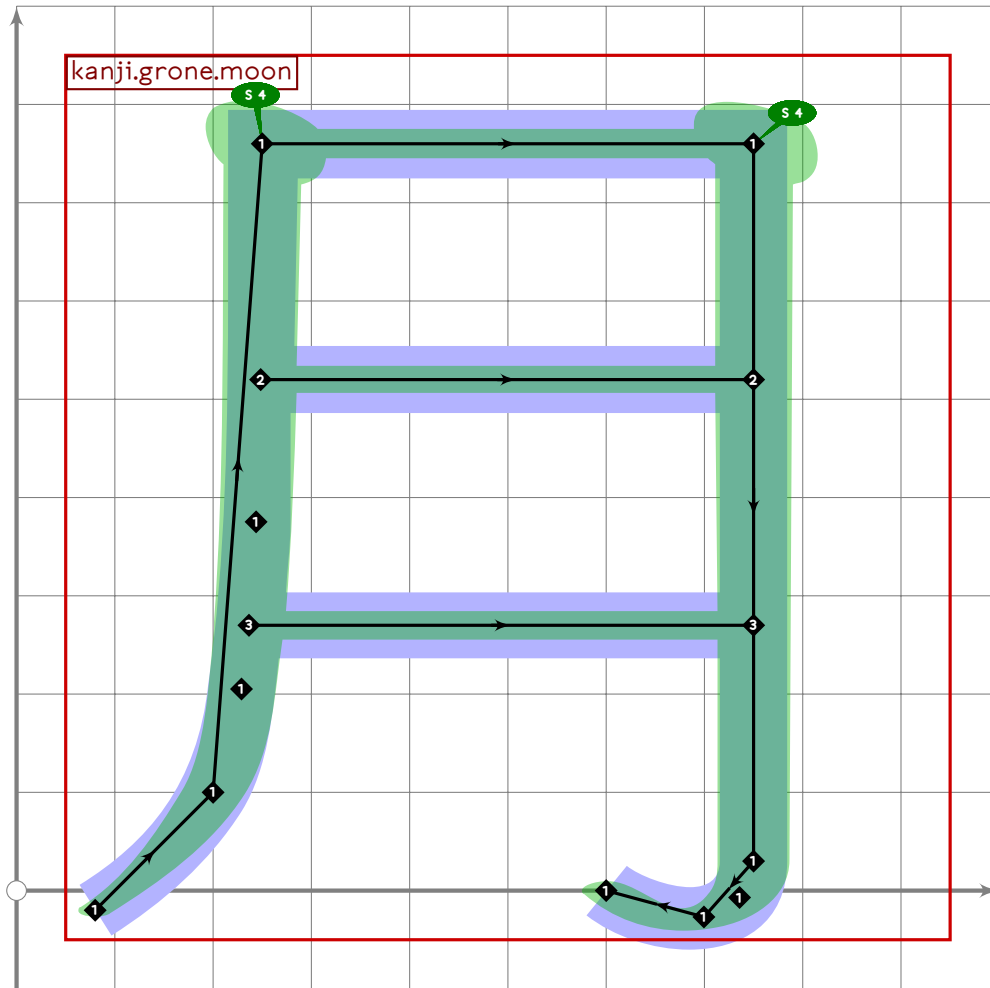
```

461
462 vardef kanji.grone.middle =
463   push_pbox_toexpand("kanji.grone.middle");
464   kanji.radical.vline;
465   build_kanji.box((170,590),(830,270));
466   expand_pbox;
467 enddef;

```



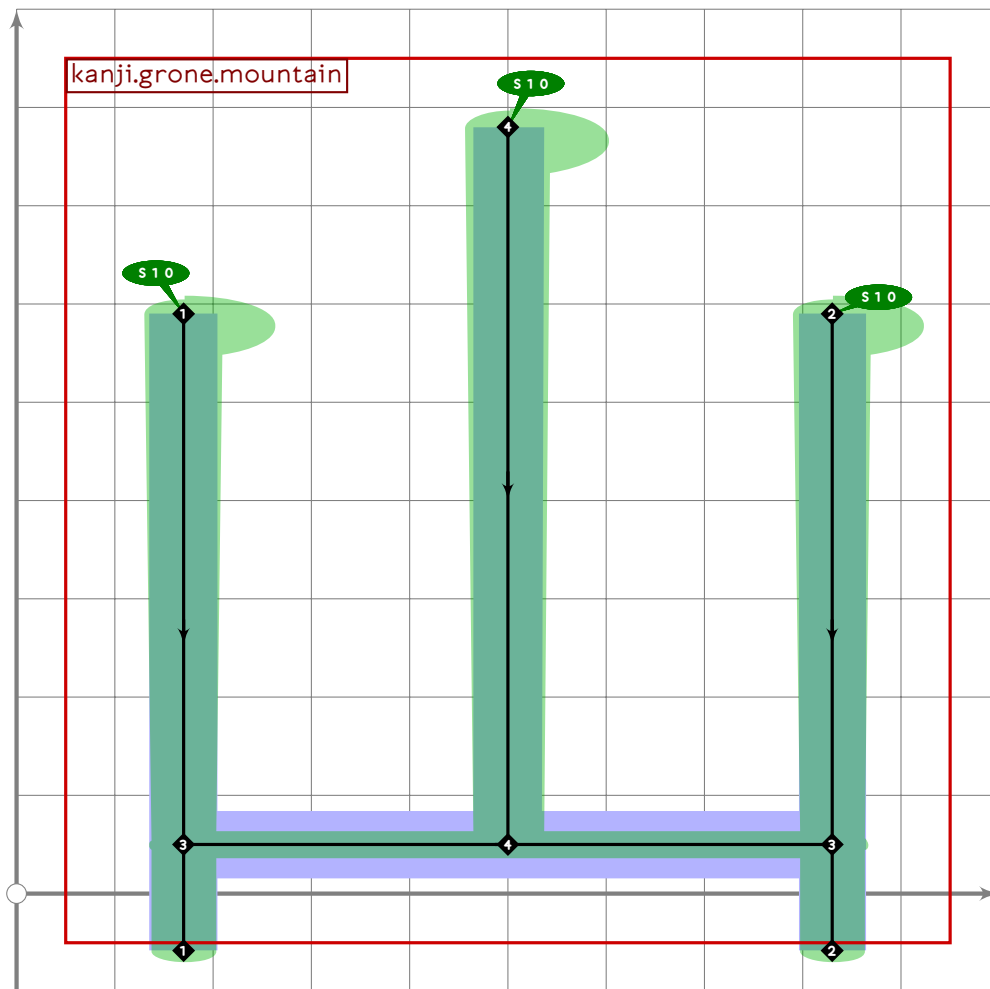
ONE



```

468
469 vardef kanji.grone.moon =
470   push_pbox_toexpand("kanji.grone.moon");
471   push_stroke((80,-20)..(200,100)...{up}(250,760)-(750,760),
472     (1,1)-(14,14)-(1.6,1.6)-(1.6,1.6));
473   build_kanji.add_jtail(0);
474   set_botip(0,2,1);
475   set_botip(0,3,1);
476   set_boserif(0,2,4);
477   set_boserif(0,3,4);
478   push_stroke(
479     (get_strokep(0) intersectionpoint ((0,520)-(1000,520)))-(750,520),
480     (1.5,1.5)-(1.5,1.5));
481   push_stroke(
482     (get_strokep(-1) intersectionpoint ((0,270)-(1000,270)))-(750,270),
483     (1.5,1.5)-(1.5,1.5));
484   expand_pbox;
485 enddef;

```



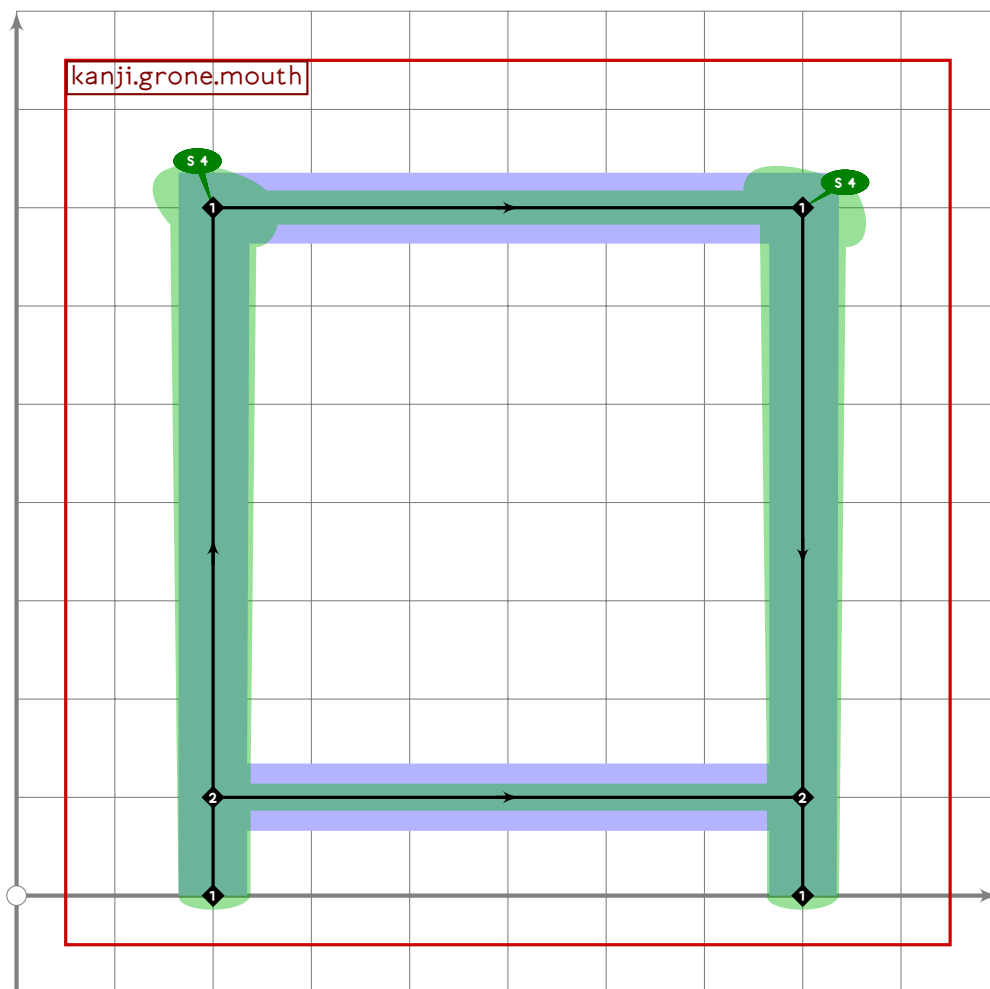
```

486
487 vardef kanji.grone.mountain =
488   push_pbox_toexpand("kanji.grone.mountain");
489   build_kanji.cup((170,590),(830,50));
490   push_stroke((500,780)–(500,50),
491     (1.7,1.7)–(1.5,1.5));
492   set_boserif(0,0,10);
493   expand_pbox;
494 enddef;

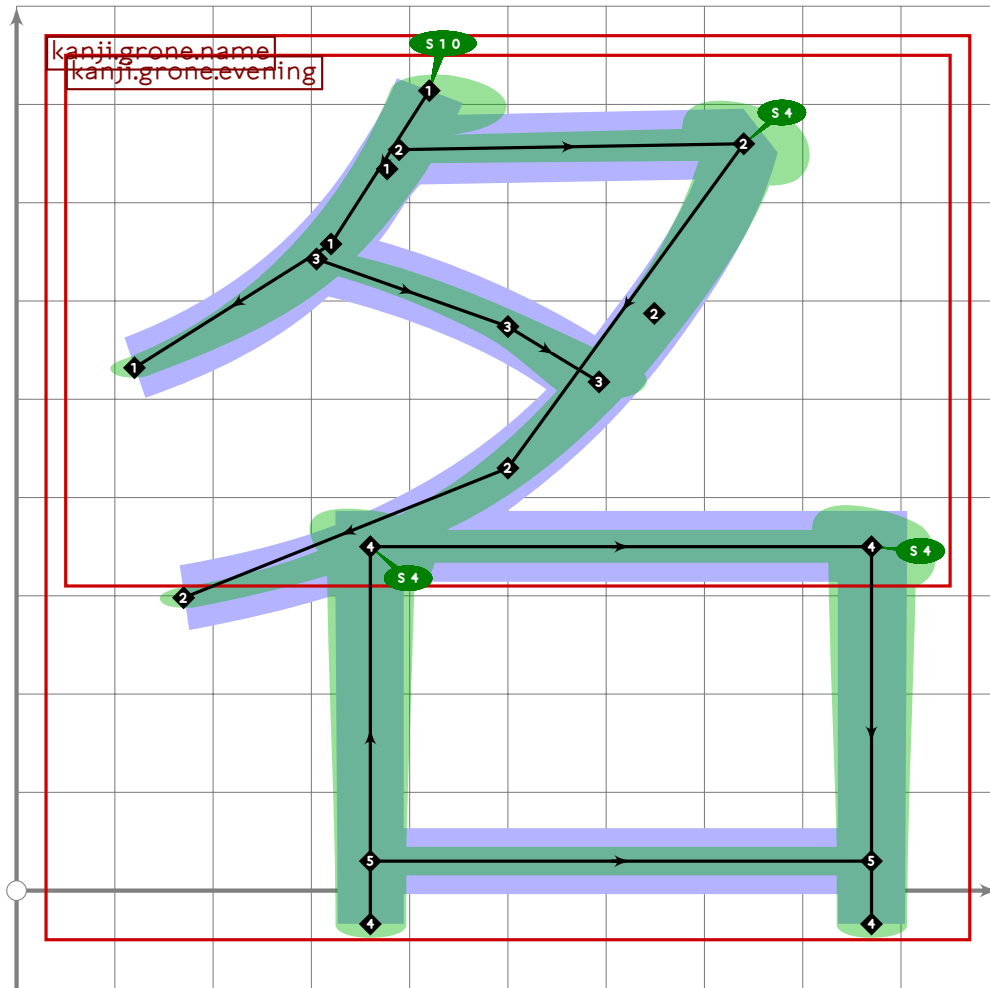
```

U+53E3  
tsuku.uni53E3

ONE



```
495  
496 vardef kanji.grone.mouth =  
497   push_pbox_toexpand("kanji.grone.mouth");  
498   build_kanji.box((200,700),(800,100));  
499   expand_pbox;  
500 enddef;
```

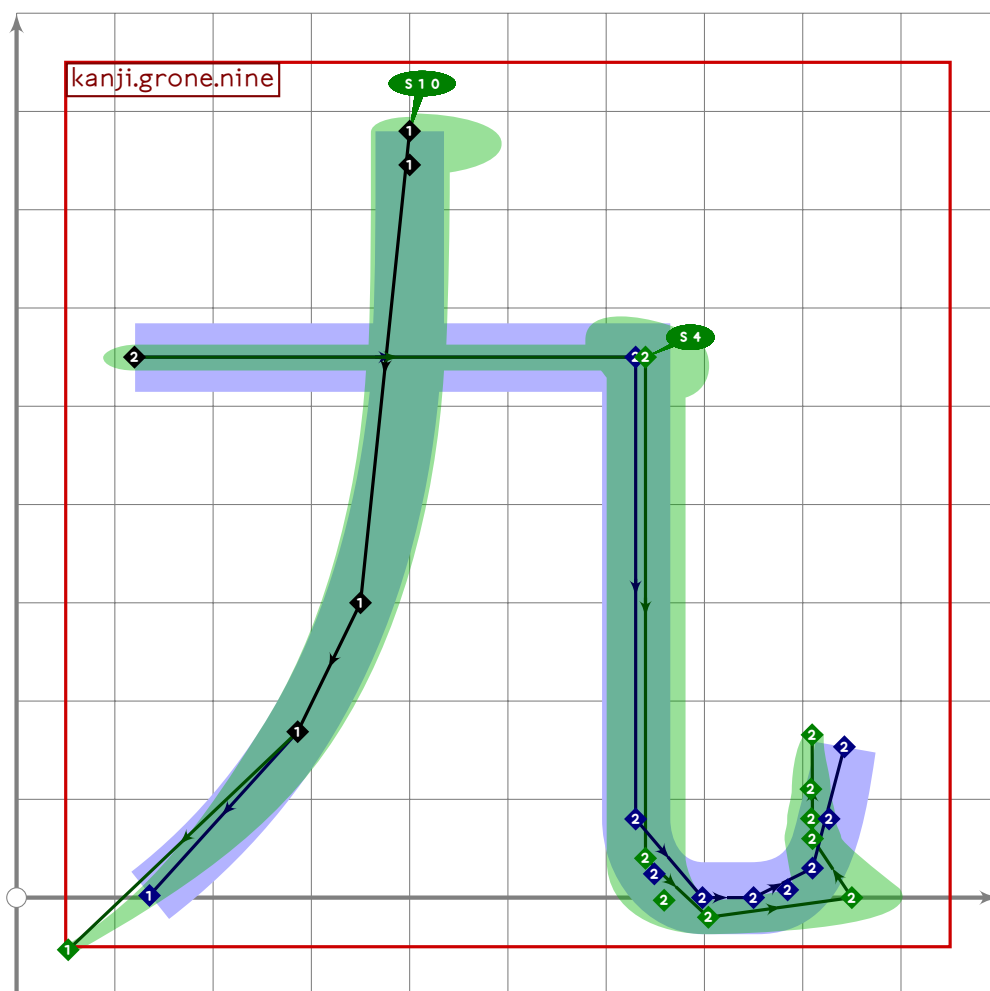


```

501
502 vardef kanji.grone.name =
503   push_pbox_toexpand("KANJI.GRONE.NAME");
504   tsu_xform(identity shifted (-50,850) yscaled 0.6 shifted (50,850))
505     (KANJI.GRONE.EVENING);
506   set_bosize(-2,102);
507   set_bosize(-1,102);
508   set_bosize(0,102);
509   build_kanji.box((360,350),(870,30));
510   expand_pbox;
511 enddef;

```

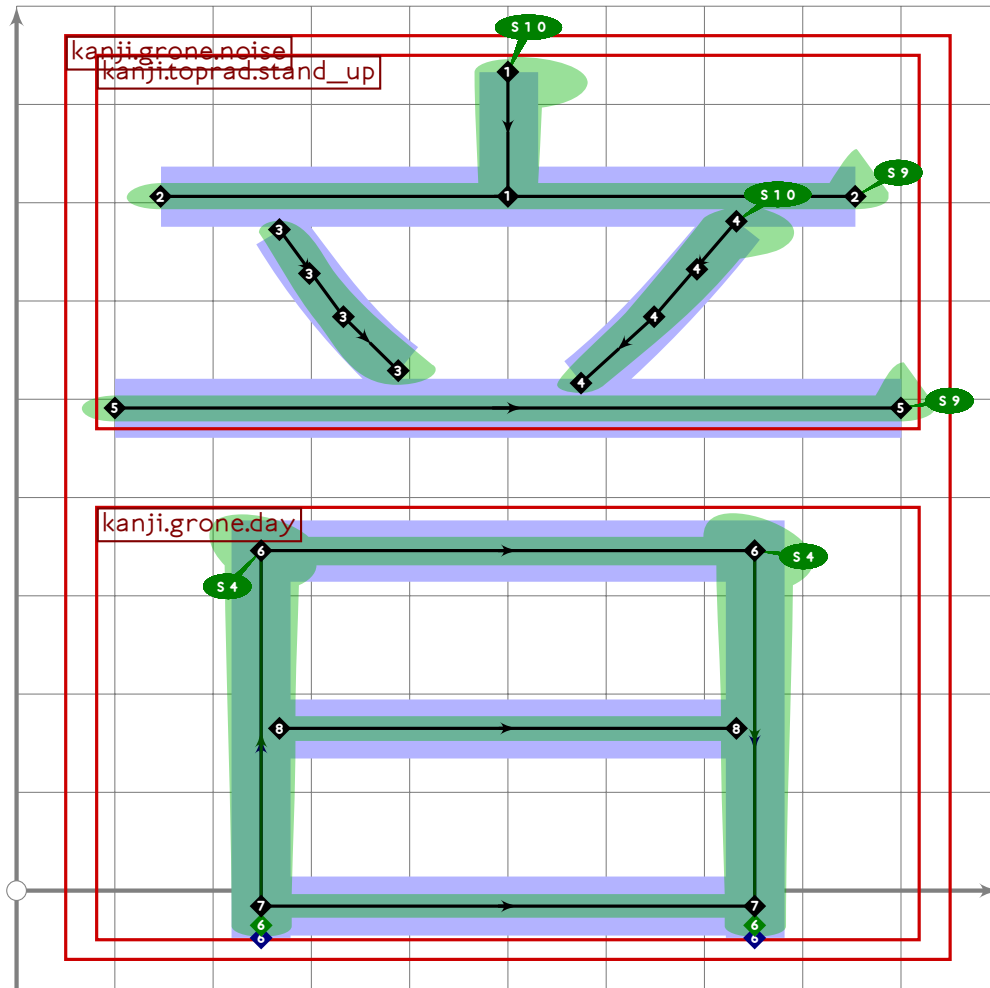
ONE



```

512
513 vardef kanji.grone.nine =
514   push_pbox_toexpand("kanji.grone.nine");
515   push_stroke((400,780){down}..(350,300)..(40,-60),
516     (1.6,1.6)–(1.6,1.6)–(1.6,1.6)–(0.8,0.7));
517   replace_strokep(0)(insert_nodes(oldp)(1.3));
518   set_boserif(0,0,10);
519   push_stroke((120,550)–(630+10*mincho,550),
520     (1.4,1.4)–(1.6,1.6));
521   build_kanji.add_ltail(0);
522   set_botip(0,1,1);
523   set_boserif(0,1,4);
524   expand_pbox;
525 enddef;

```



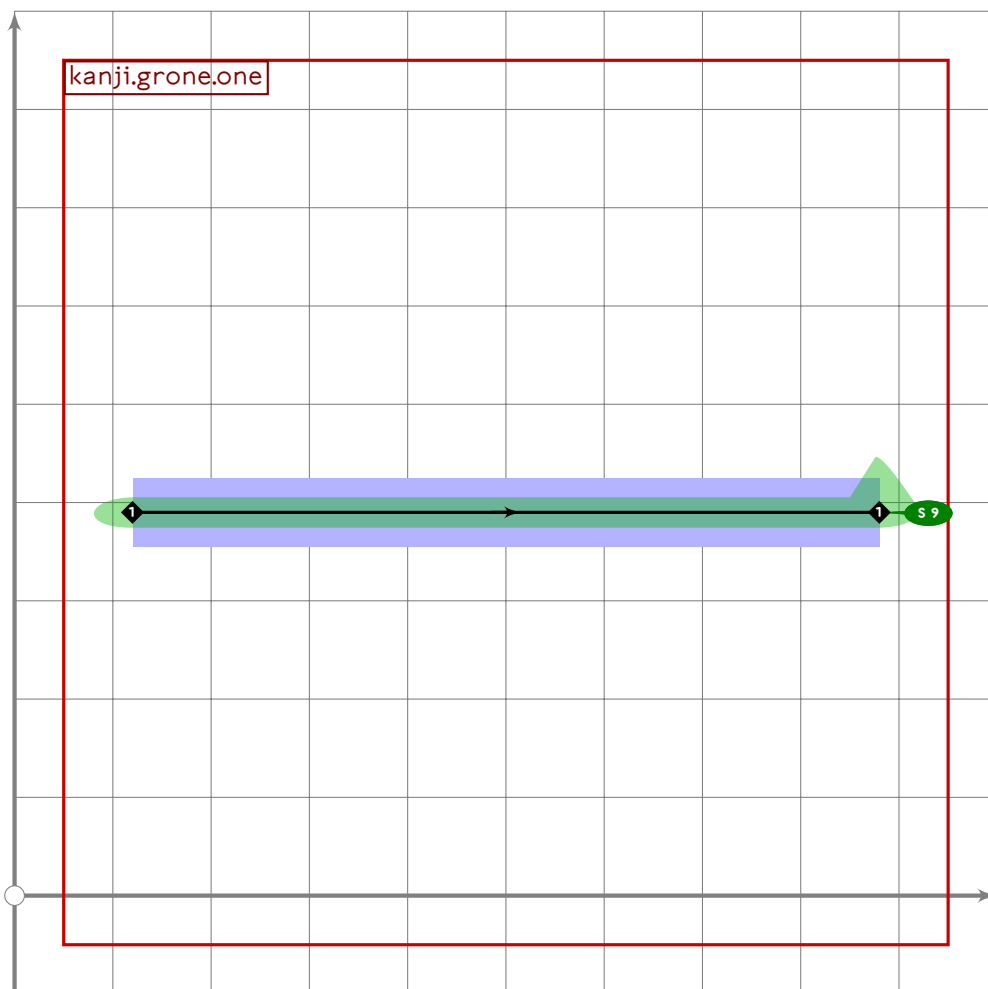
```

526
527 vardef kanji.grone.noise =
528   push_pbox_toexpand("kanji.grone.noise");
529   build_kanji.level(build_kanji.sscale(xscaled 0.93)(
530     build_kanji.tb(430;80)
531     (kanji.toprad.stand_up)
532     (kanji.grone.day)));
533   expand_pbox;
534 enddef;

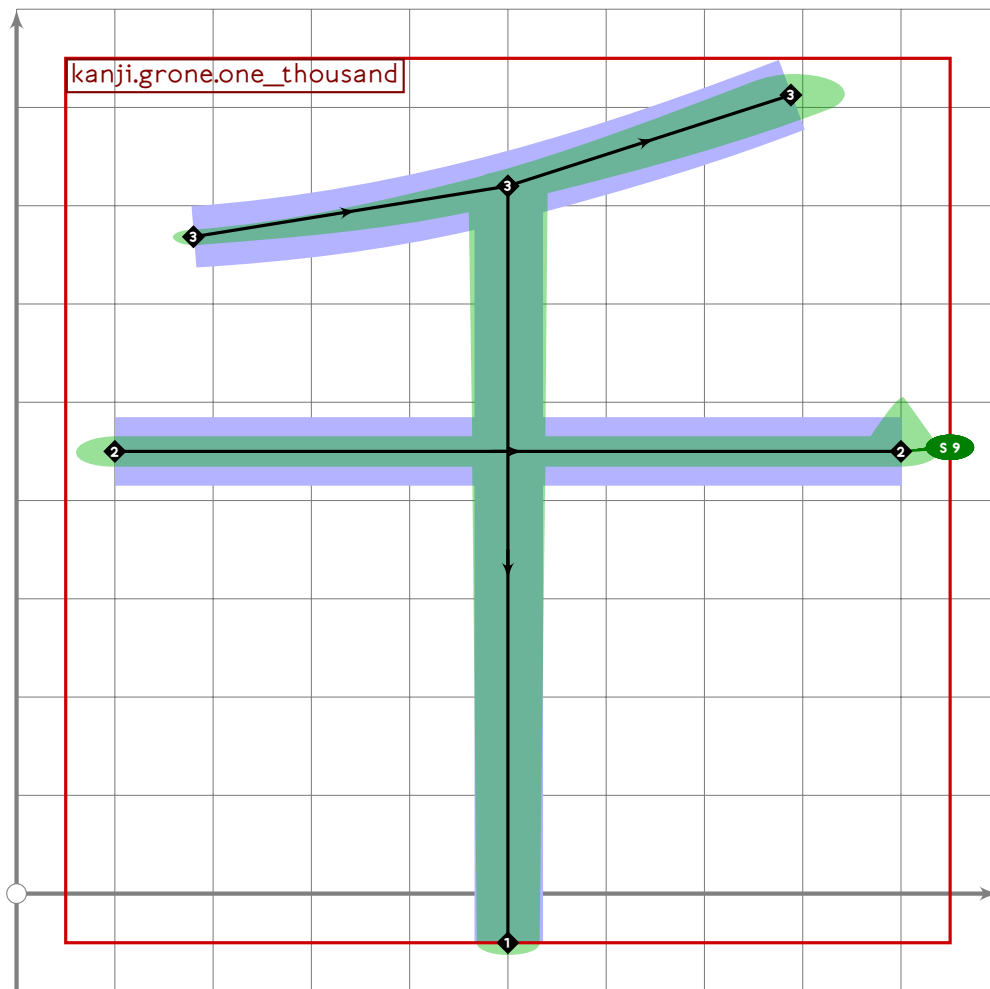
```

U+4E00  
tsuku.uni4E00

ONE



```
535
536 vardef kanji.grone.one =
537   push_pbox_toexpand("kanji.grone.one");
538   push_stroke((120,390)–(880,390),
539     (1.6,1.6)–(1.6,1.6));
540   set_boserif(0,1,9);
541   expand_pbox;
542 enddef;
```



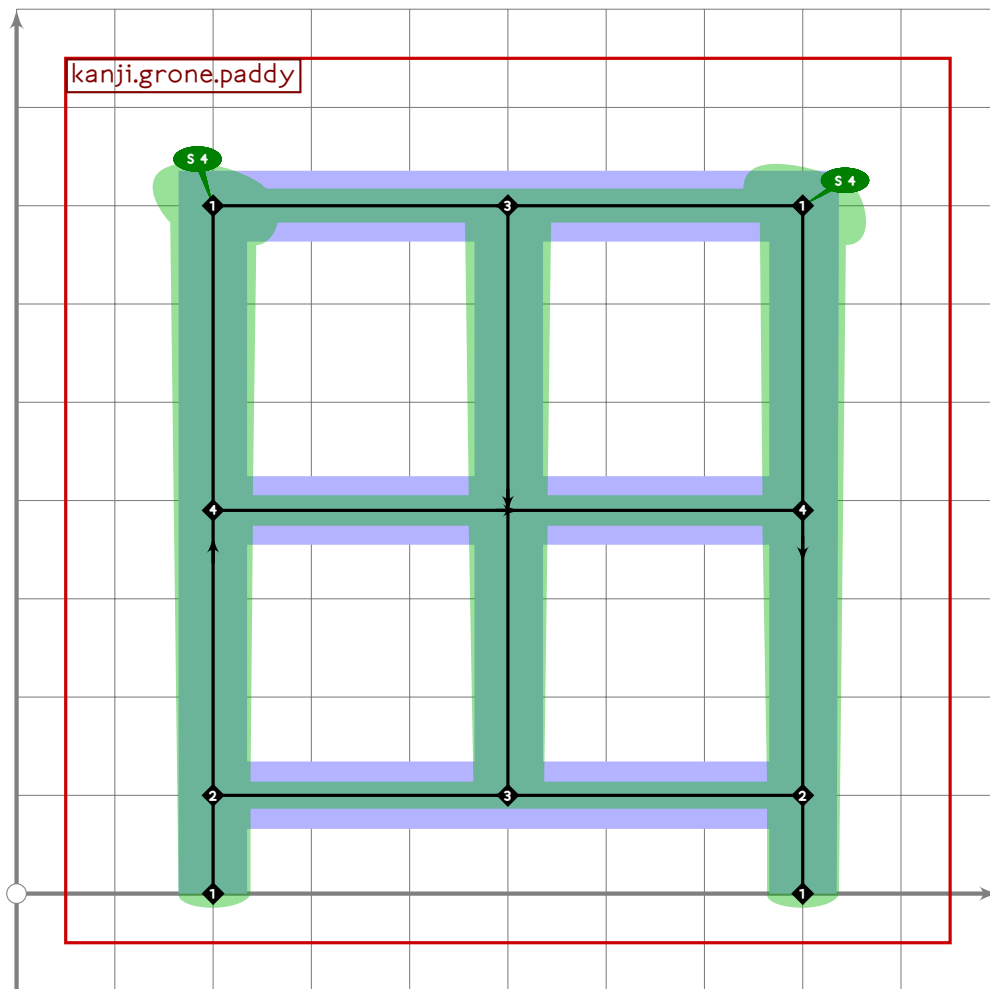
```

543
544 vardef kanji.grone.one_thousand =
545   push_pbox_toexpand("kanji.grone.one_thousand");
546   build_kanji.add_beret(
547     push_stroke((500,720)-(500,-50),(1.6,1.6)-(1.4,1.4));
548     push_stroke((100,450)-(900,450),(1.6,1.6)-(1.6,1.6));
549     set_boserif(0,1,9);
550   );
551   expand_pbox;
552 enddef;

```



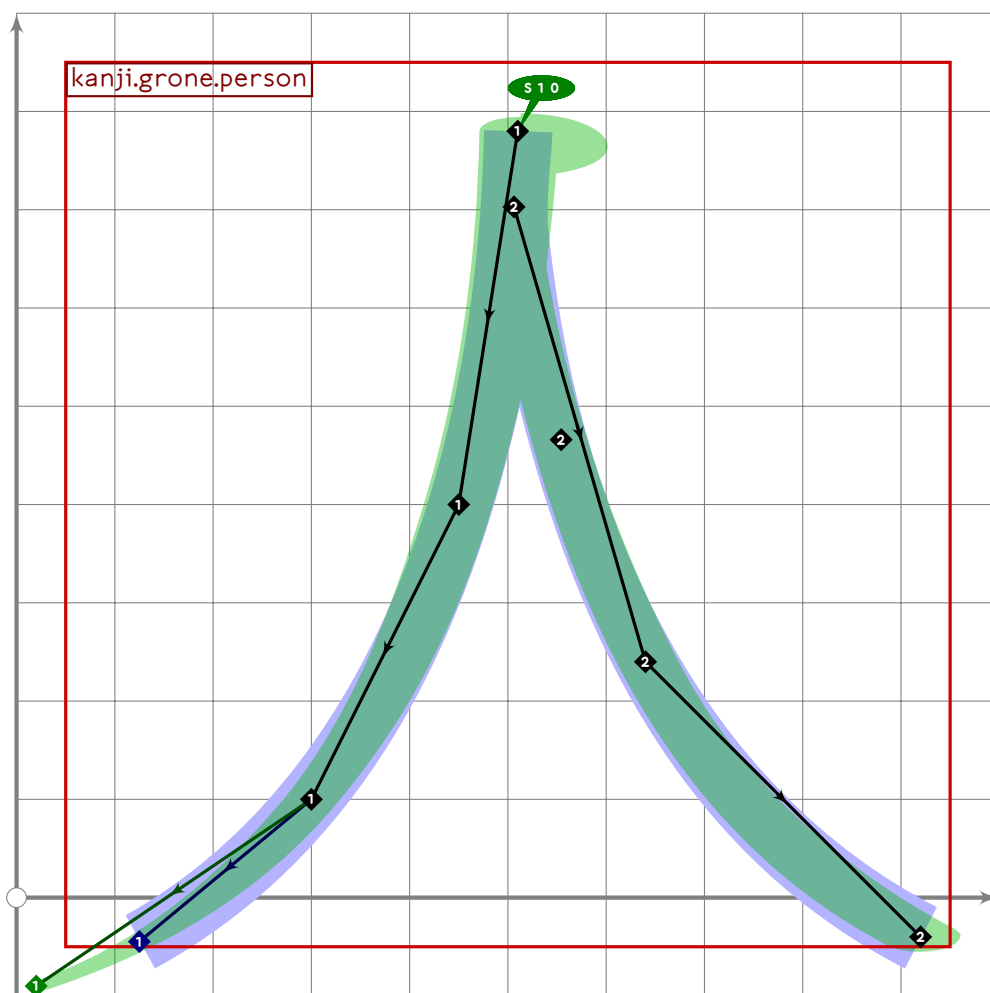
ONE



```

553
554 vardef kanji.grone.paddy =
555   push_pbox_toexpand("kanji.grone.paddy");
556   build_kanji.box((200,700),(800,100));
557   push_stroke((500,700)–(500,100),
558     (1.7,1.7)–(1.5,1.5));
559   push_stroke((200,390)–(800,390),
560     (1.6,1.6)–(1.6,1.6));
561   expand_pbox;
562 enddef;

```

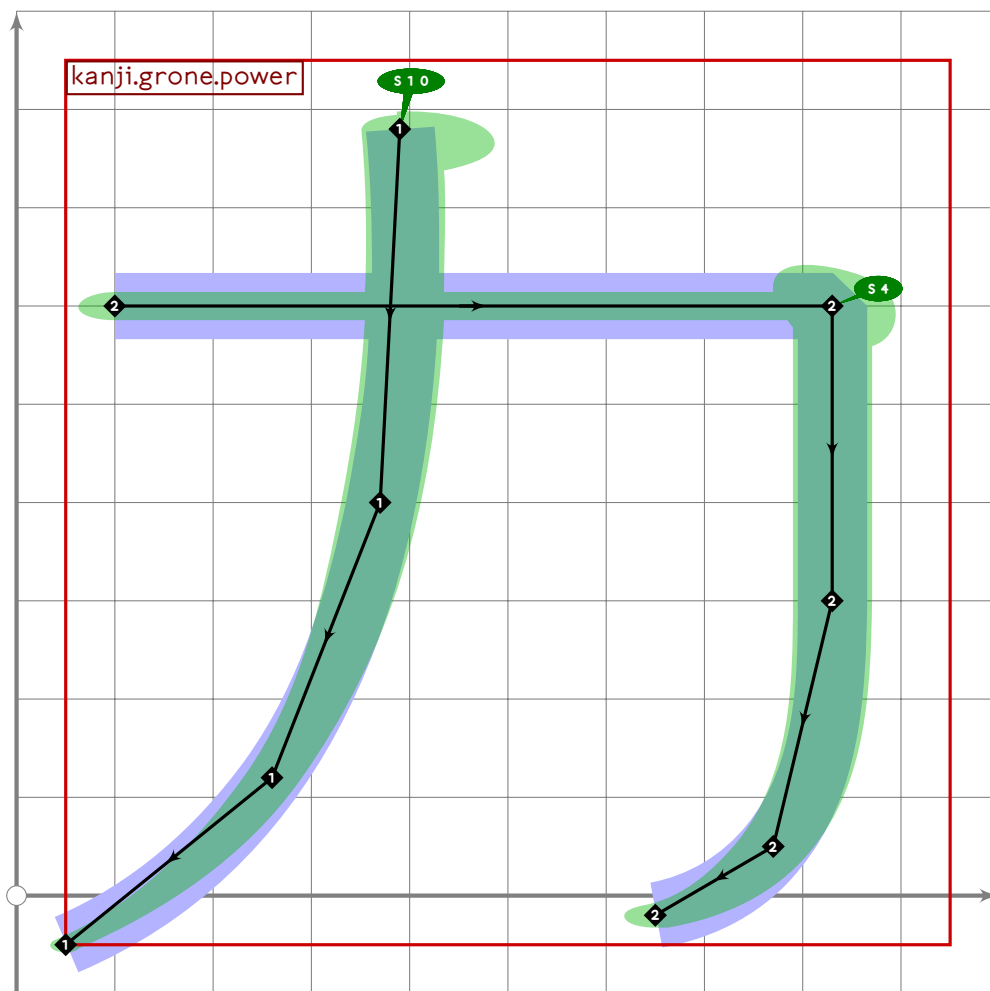


```

563
564 vardef kanji.grone.person =
565   push_pbox_toexpand("kanji.grone.person");
566   push_stroke((510,780)..(450,400)..(300,100)..(20,-90),
567     (1.6,1.6)-(1.5,1.5)-(1.3,1.3)-(0.85,0.85));
568   set_boserif(0,0,10);
569   push_stroke(
570     (point 0.2 of get_strokep(0))..tension 1.2..(640,240)..(920,-40),
571     (1.2,1.2)-(1.4,1.4)-(1.6,1.6));
572   expand_pbox;
573 enddef;

```

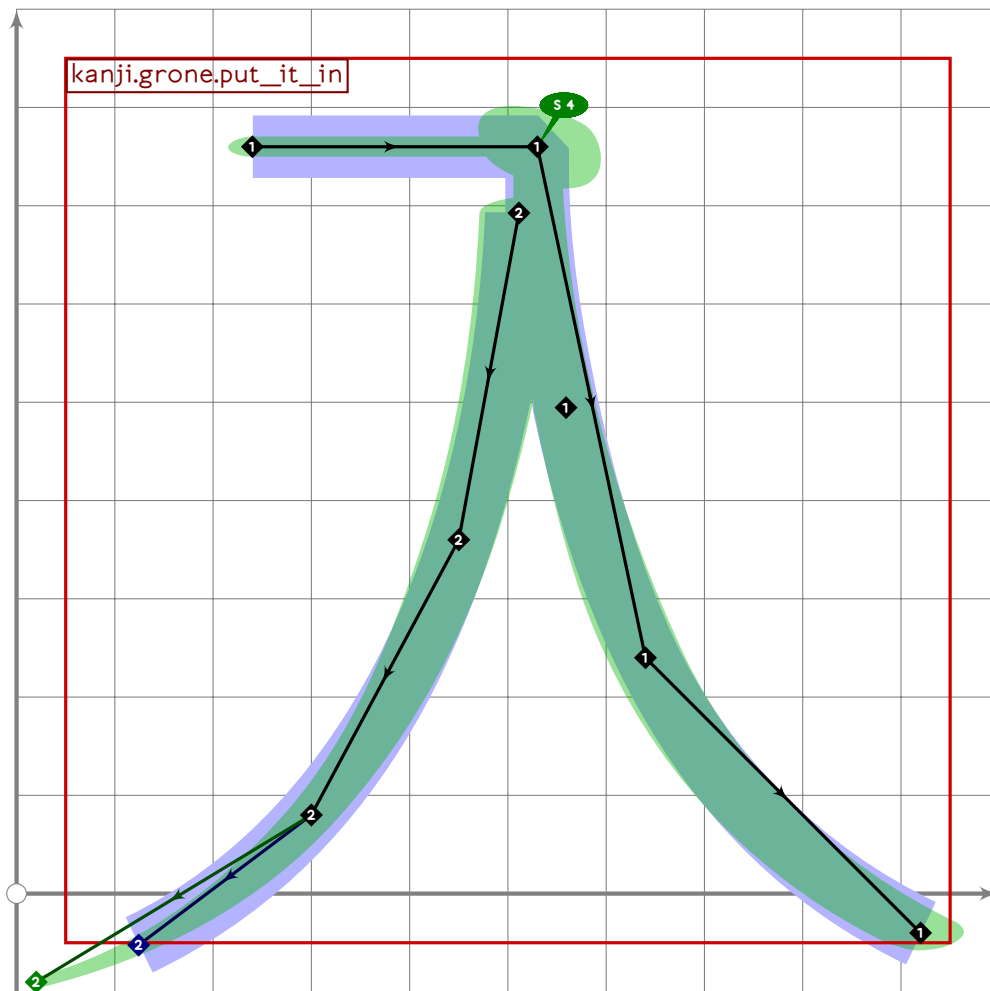
ONE



```

574
575 vardef kanji.grone.power =
576   push_pbox_toexpand("KANJI.GRONE.POWER");
577   push_stroke((390,780)..(370,400)..(260,120)..(50,-50),
578     (1.6,1.6)-(1.6,1.6)-(1.3,1.3)-(1,1));
579   set_boserif(0,0,10);
580   push_stroke(
581     (100,600)-(830,600)..tension 1.1..(830,300)..(770,50)..(650,-20),
582     (1.5,1.5)-(1.6,1.6)-(1.6,1.6)-(1.6,1.6)-(1.4,1.4));
583   set_botip(0,1,0);
584   set_boserif(0,1,4);
585   expand_pbox;
586 enddef;

```

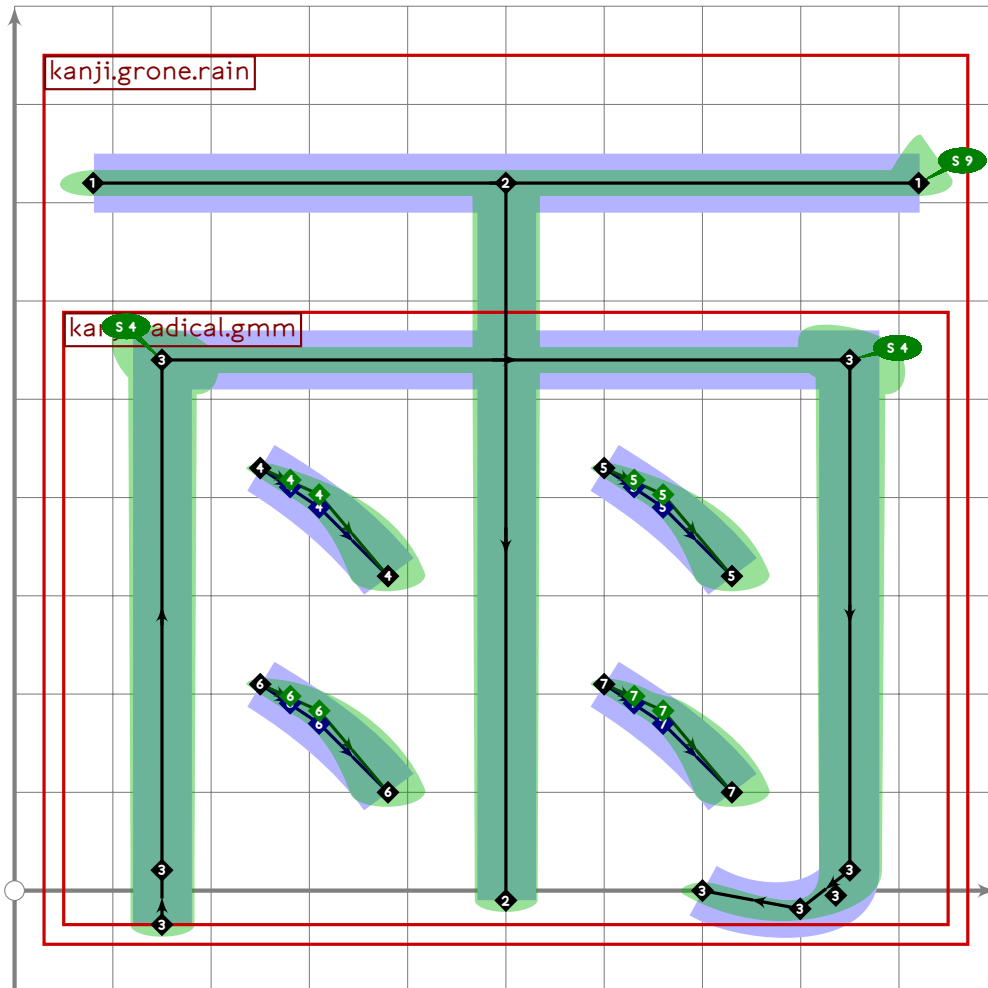


```

587
588 vardef kanji.grone.put_it_in =
589   push_pbox_toexpand("kanji.grone.put_it_in");
590   push_stroke((240,760)-(530,760)..tension 1.2..(640,240)..(920,-40),
591     (1.2,1.2)-(1.2,1.2)-(1.6,1.6)-(1.7,1.7));
592   set_botip(0,1,0);
593   set_boserif(0,1,4);
594   push_stroke(
595     ((-20,0)+point 1.14 of get_stroke(0)..(450,360)..(300,80)..(20,-90),
596     (1.6,1.6)-(1.5,1.5)-(1.3,1.3)-(0.85,0.85));
597   expand_pbox;
598 enddef;

```

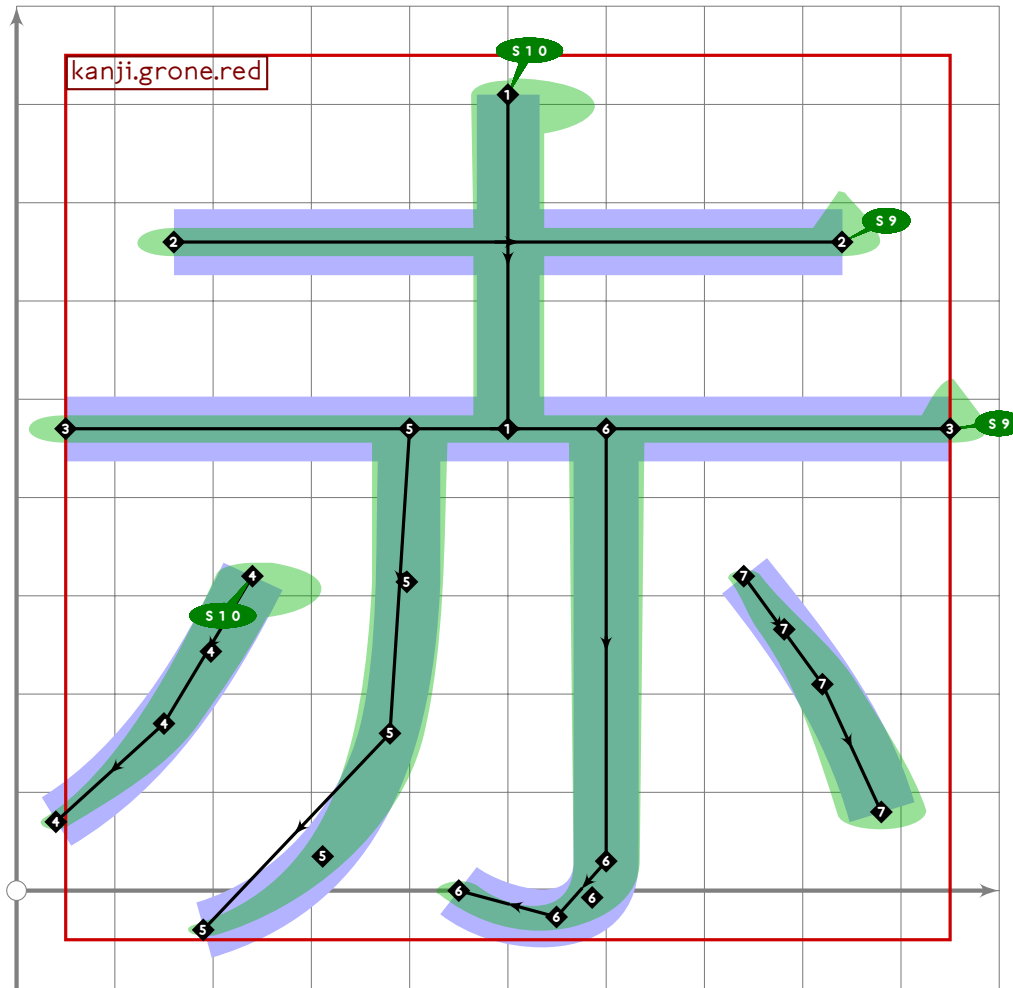
ONE



```

599
600 vardef kanji.grone.rain =
601   push_pbox_toexpand("kanji.grone.rain");
602   build_kanji.level(
603     push_stroke((80,720)-(920,720),(1.6,1.6)-(1.6,1.6));
604     set_boserif(0,1,9);
605     push_stroke((500,720)-(500,-10),(1.6,1.6)-(1.5,1.5));
606     tsu_xform(identity yscaled (540/780))(kanji.radical.gmm);
607     push_stroke((250,430)..tension 1.2..(310,390+13*mincho)..(380,320),
608       (1,1)-(1.4,1.4)-(1.7,1.7));
609     set_bosize(0,80);
610     push_stroke(get_stroke(0) shifted (350,0),get_stroke(0));
611     set_bosize(0,80);
612     push_stroke(get_stroke(-1) shifted (0,-220),get_stroke(-1));
613     set_bosize(0,80);
614     push_stroke(get_stroke(-2) shifted (350,220),get_stroke(-2));
615     set_bosize(0,80);
616   );
617   expand_pbox;
618 enddef;

```

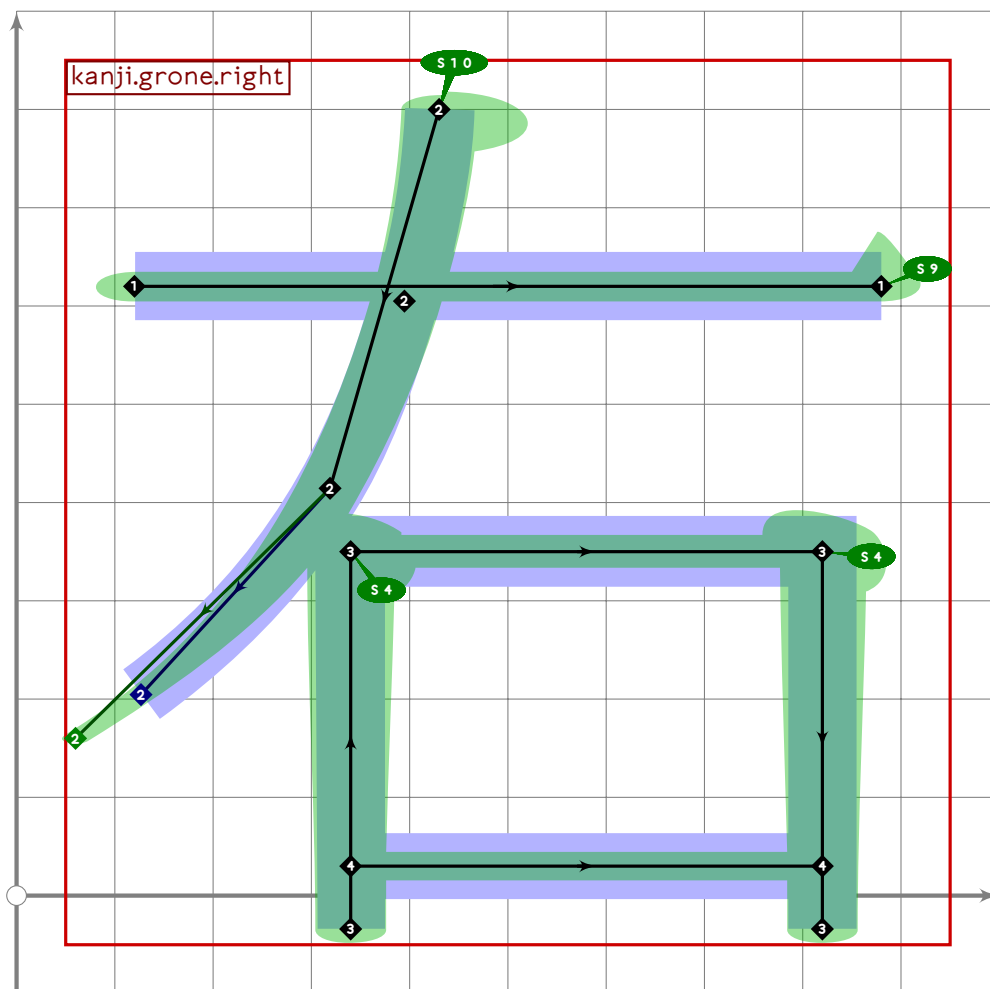


```

619
620 vardef kanji.grone.red =
621   push_pbox_toexpand("kanji.grone.red");
622   push_stroke((500,810)-(500,470),(1,6,1,6)-(1,5,1,5));
623   set_boserif(0,0,10);
624   push_stroke((160,660)-(840,660),(1,6,1,6)-(1,6,1,6));
625   set_boserif(0,1,9);
626   push_stroke((50,470)-(950,470),(1,6,1,6)-(1,6,1,6));
627   set_boserif(0,1,9);
628   push_stroke((240,320)..tension 1.3..(150,170)..(40,70),
629     (1,6,1,6)-(1,5,1,5)-(1,1));
630   set_boserif(0,0,10);
631   push_stroke((400,470){down}..tension 1.3..(380,160)..(190,-40),
632     (1,6,1,6)-(1,5,1,5)-(1,1));
633   push_stroke((600,470),(1,6,1,6));
634   build_kanji.add_jtail(0);
635   push_stroke((740,320)..tension 1.3..(820,210)..(880,80),
636     (1,1)-(1,5,1,5)-(1,8,1,8));
637   for i=-6 upto 0: set_bosize(i,94); endfor;
638   expand_pbox;
639 enddef;

```

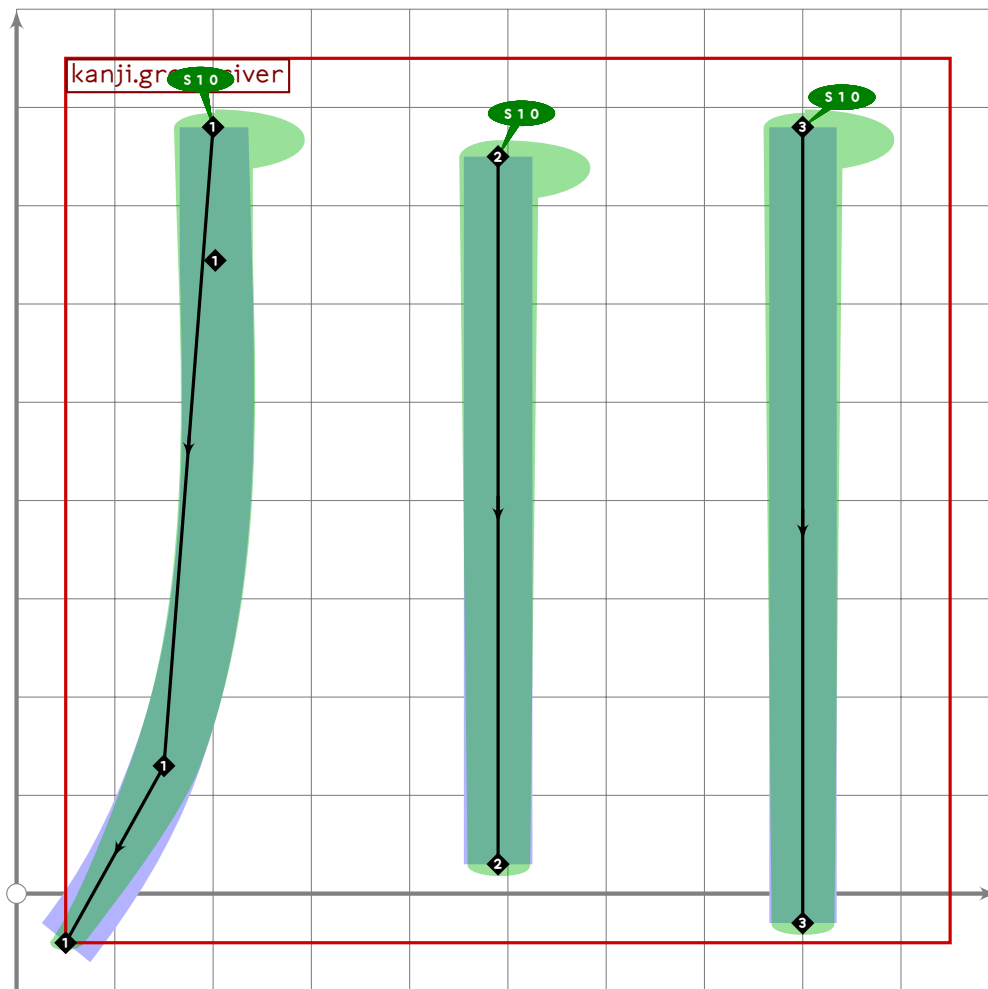
ONE



```

640
641 vardef kanji.grone.right =
642   push_pbox_toexpand("kanji.grone.right");
643   build_kanji.lean_to((430,160));
644   build_kanji.box((340,350),(820,30));
645   expand_pbox;
646 enddef;

```



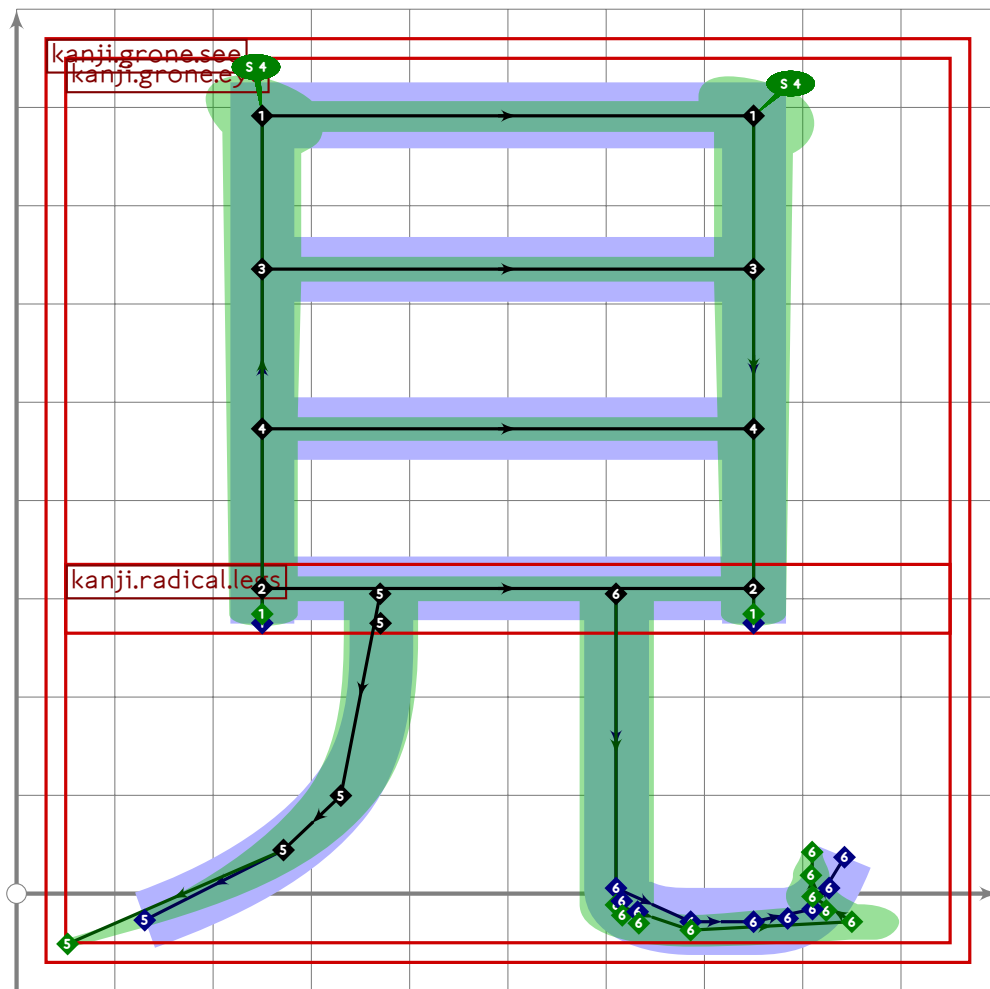
```

647
648 vardef kanji.grone.river =
649   push_pbox_toexpand("kanji.grone.river");
650   push_stroke((200,780){down}..(150,130)..(50,-50),
651     (1.6,1.6)-(1.5,1.5)-(1,1));
652   set_boserif(0,0,10);
653   push_stroke((490,750)-(490,30),
654     (1.6,1.6)-(1.4,1.4));
655   set_boserif(0,0,10);
656   push_stroke((800,780)-(800,-30),
657     (1.6,1.6)-(1.4,1.4));
658   set_boserif(0,0,10);
659   expand_pbox;
660 enddef;

```



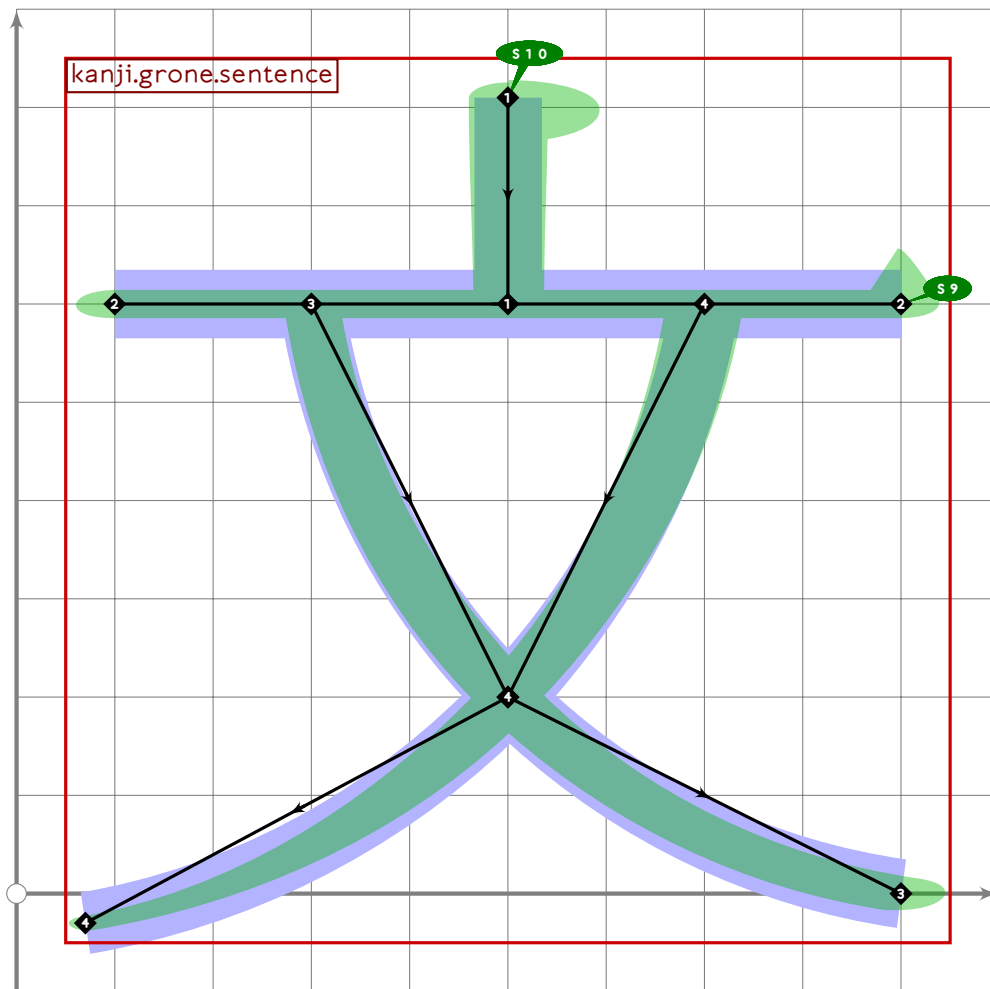
ONE



```

661
662 vardef kanji.grone.see =
663   push_pbox_toexpand("kanji.grone.see");
664   build_kanji.level(build_kanji.tb(300,70)
665     (kanji.grone.eye)
666     (kanji.radical.legs));
667   expand_pbox;
668 enddef;

```

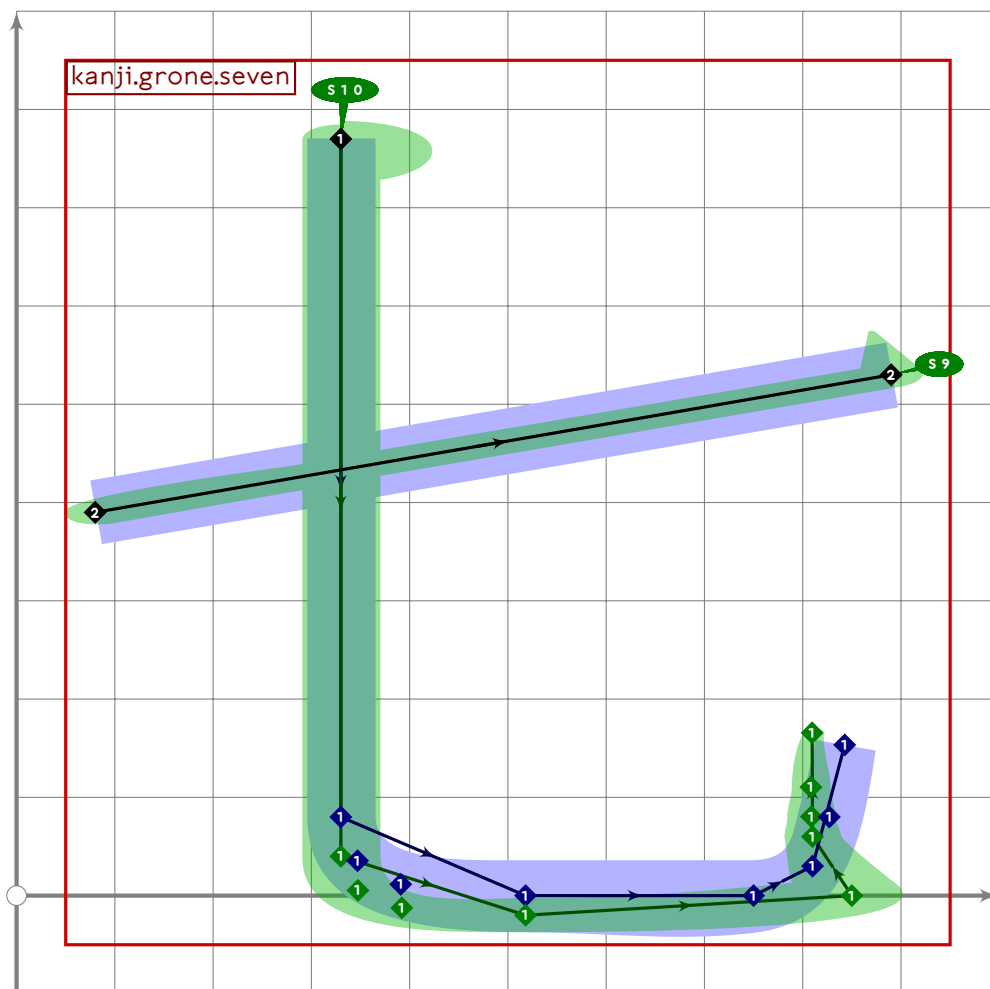


```

669
670 vardef kanji.grone.sentence =
671   push_pbox_toexpand("kanji.grone.sentence");
672   push_stroke((500,810)–(500,600),
673     (1.6,1.6)–(1.5,1.5));
674   set_boserif(0,0,10);
675   push_stroke((100,600)–(900,600),
676     (1.6,1.6)–(1.6,1.6));
677   set_boserif(0,1,9);
678   push_stroke((300,600)..(500,200)..(900,0),
679     (1.3,1.3)–(1.5,1.5)–(1.7,1.7));
680   push_stroke((700,600)..(500,200)..(70,-30),
681     (1.6,1.6)–(1.5,1.5)–(1,1));
682   expand_pbox;
683 enddef;

```

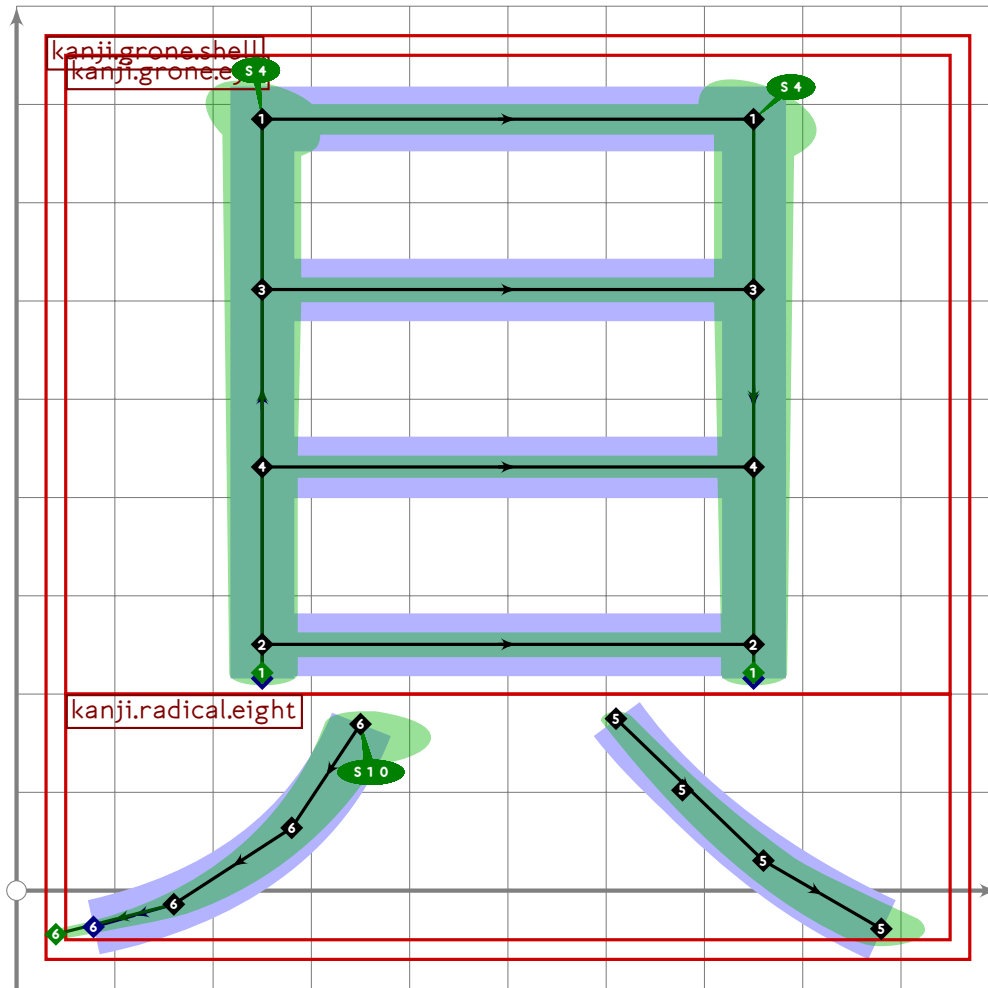
ONE



```

684
685 vardef kanji.grone.seven =
686   push_pbox_toexpand("kanji.grone.seven");
687   push_stroke((330,770),
688     (1.6,1.6));
689   build_kanji.add_ltail(0);
690   set_boserif(0,0,10);
691   push_stroke((80,390)-(890,530),
692     (14,14)-(14,14));
693   set_boserif(0,1,9);
694   expand_pbox;
695 enddef;

```

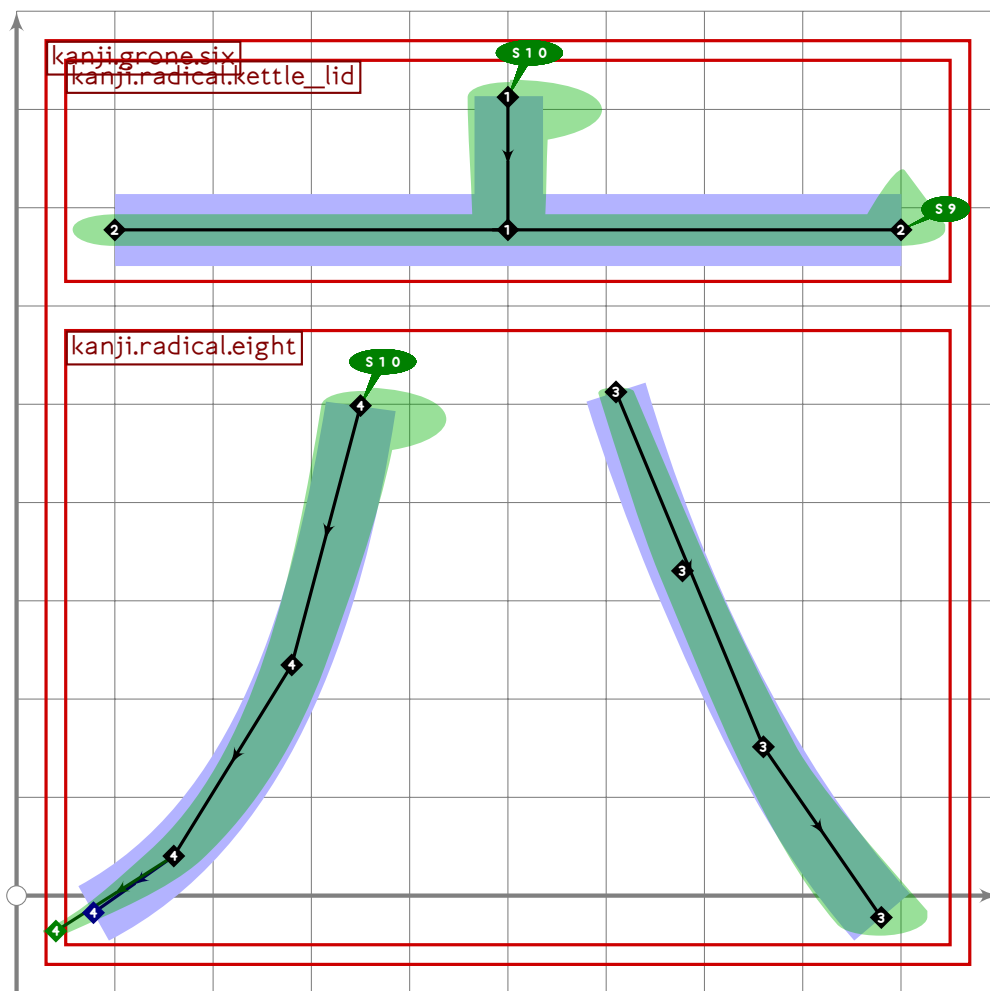


```

696
697 vardef kanji.grone.shell =
698   push_pbox_toexpand("kanji.grone.shell");
699   build_kanji.level(build_kanji.tb(200,0)
700     (kanji.grone.ey)
701     (kanji.radical.eight));
702   expand_pbox;
703 enddef;

```

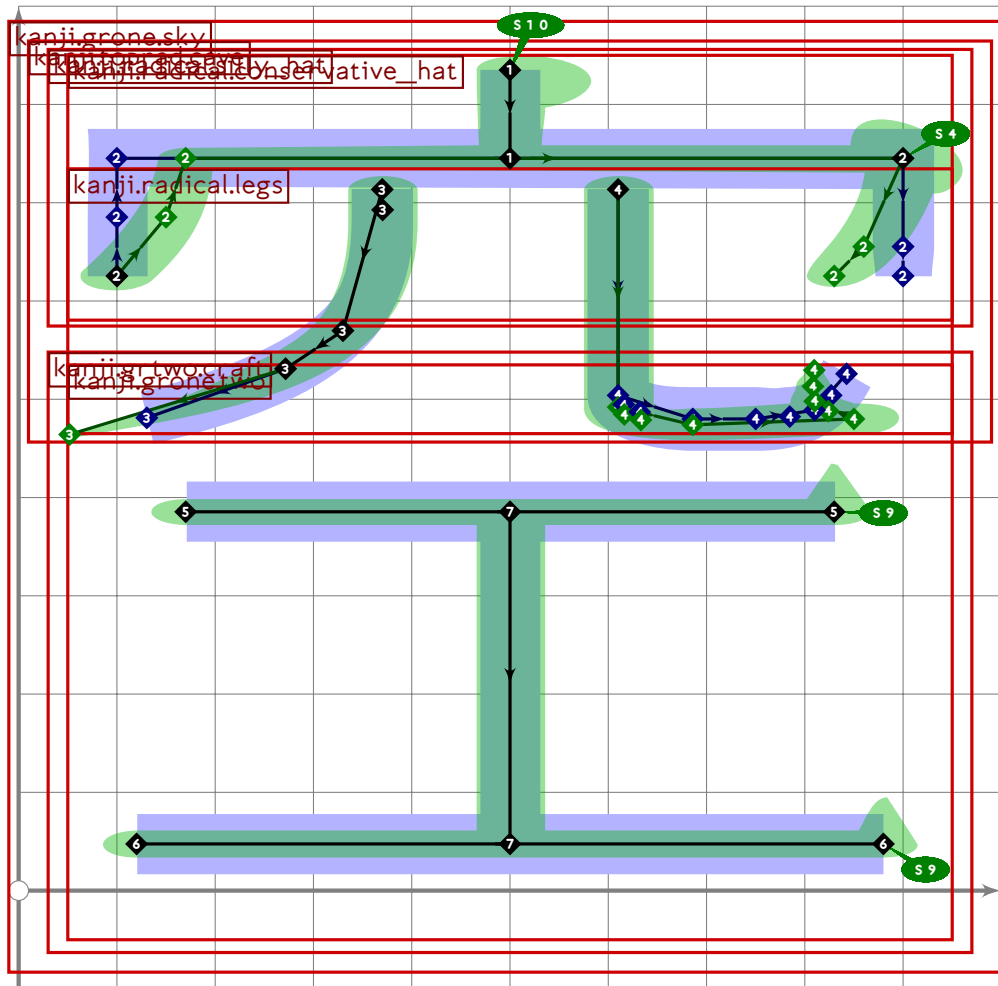
ONE



```

704
705 vardef kanji.grone.six =
706   push_pbox_toexpand("kanji.grone.six");
707   build_kanji.level(build_kanji.tb(600,-50)
708     (kanji.radical.kettle_lid)
709     (kanji.radical.eight));
710   expand_pbox;
711 enddef;

```

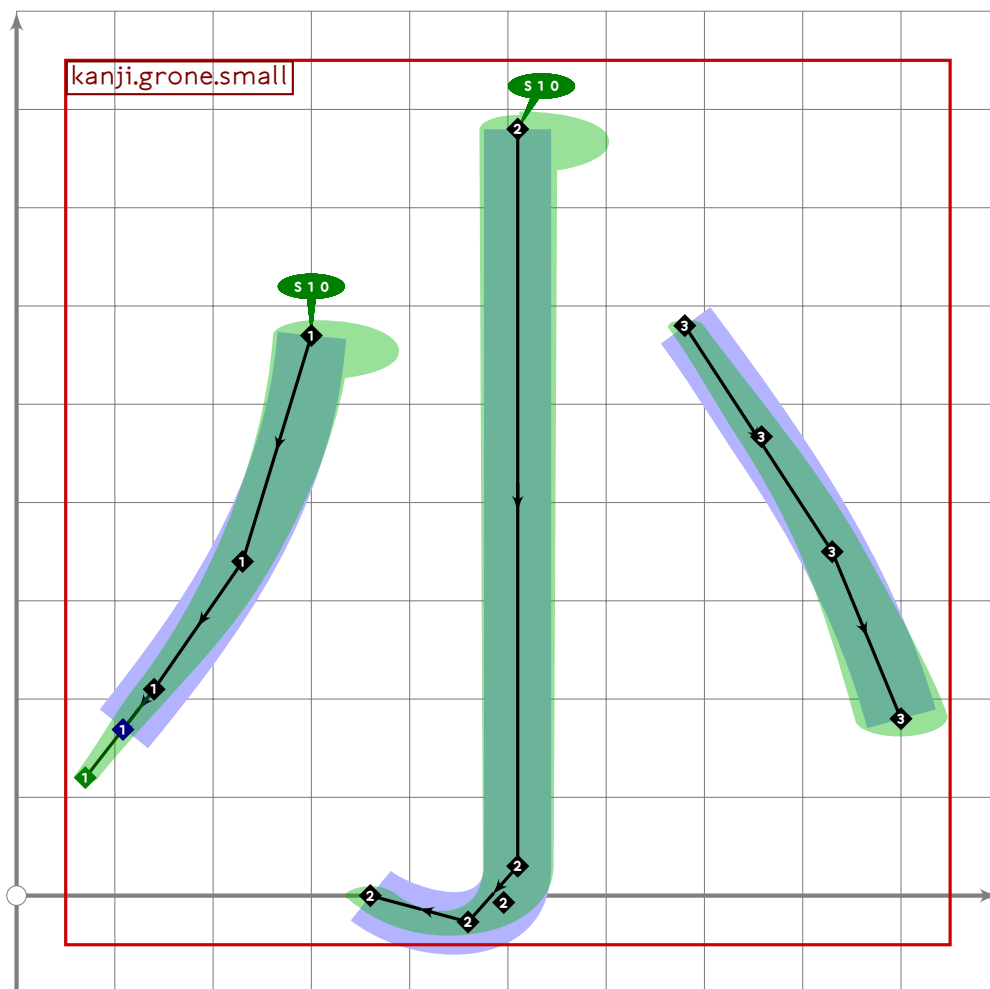


```

712
713 vardef kanji.grone.sky =
714   push_pbox_toexpand("kanji.grone.sky");
715   build_kanji.level(build_kanji.tb(500,70)
716     (kanji.toprad.cave)
717     (kanji.grtwo.craft));
718   expand_pbox;
719 enddef;

```

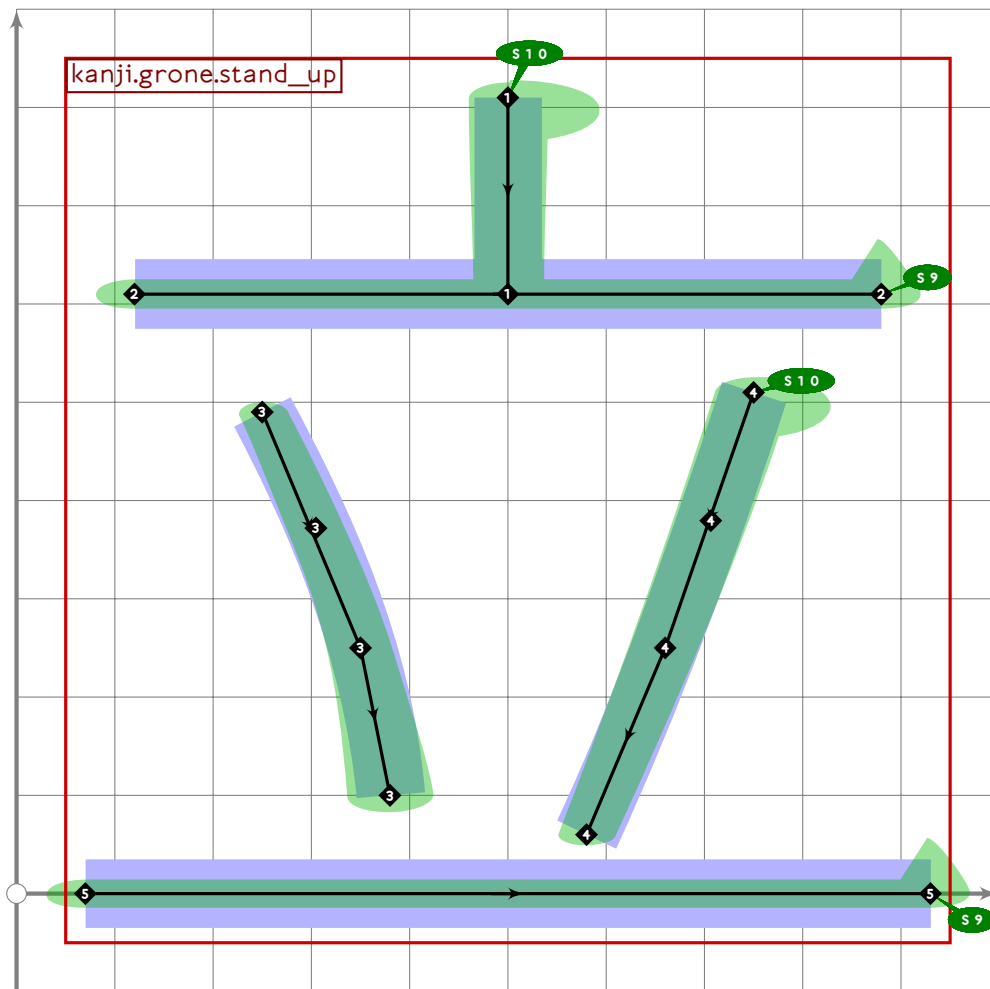
ONE



```

720
721 vardef kanji.grone.small =
722   push_pbox_toexpand("kanji.grone.small");
723   push_stroke((300,570)..(230,340)..(140,210)..(70,120),
724     (1.6,1.6)-(1.4,1.4)-(1.1,1.1)-(0.88,0.88));
725   set_boserif(0,0,10);
726   push_stroke((510,780),
727     (1.6,1.6));
728   set_boserif(0,0,10);
729   build_kanji.add_jtail(0);
730   push_stroke((680,580)..tension 1.3..(830,350)..(900,180),
731     (1,1)-(1.4,1.4)-(1.8,1.8));
732   expand_pbox;
733 enddef;

```



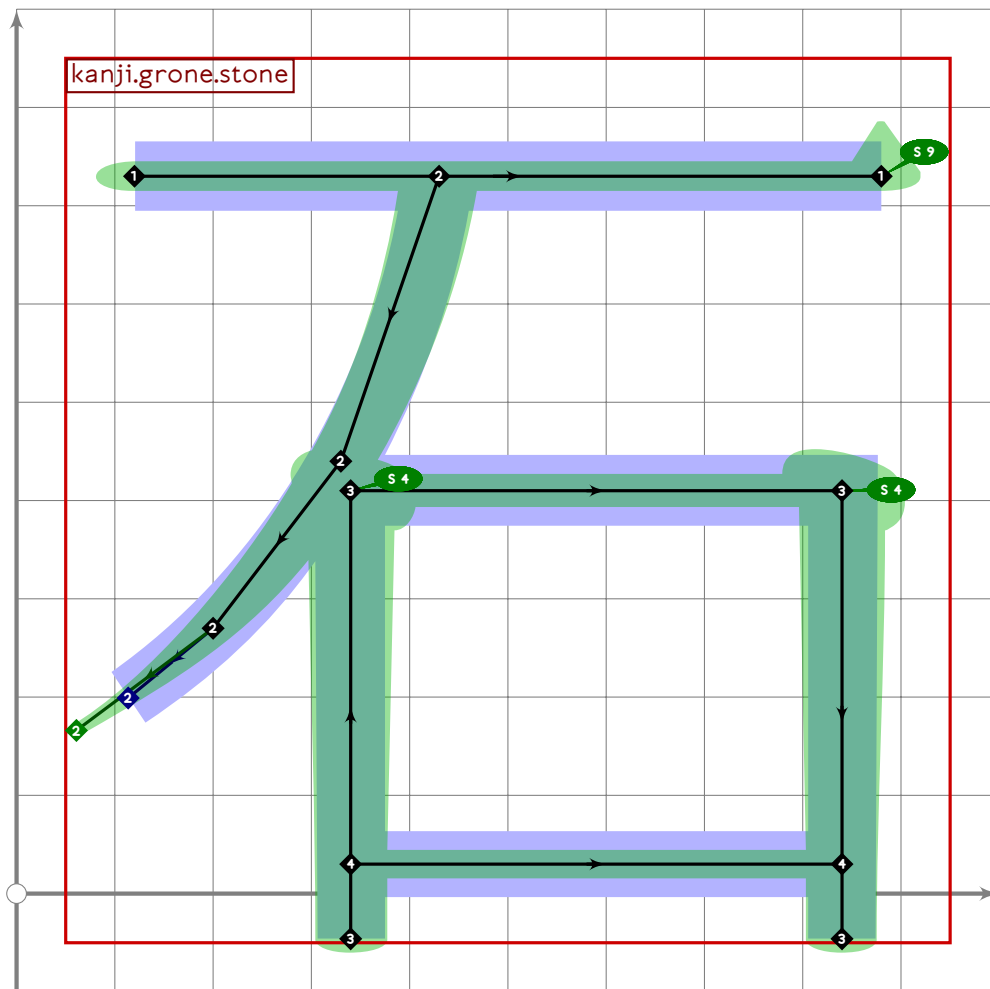
```

734
735 vardef kanji.grone.stand_up =
736   push_pbox_toexpand("kanji.grone.stand_up");
737   push_stroke((500,810)–(500,610),
738     (1.6,1.6)–(1.5,1.5));
739   set_boserif(0,0,10);
740   push_stroke((120,610)–(880,610),
741     (1.6,1.6)–(1.6,1.6));
742   set_boserif(0,1,9);
743   push_stroke((250,490)..tension 1.2..(350,250)..(380,100),
744     (1.2,1.2)–(1.4,1.4)–(1.7,1.7));
745   push_stroke((750,510)..tension 1.2..(660,250)..(580,60),
746     (1.6,1.6)–(1.5,1.5)–(1.3,1.3));
747   set_boserif(0,0,10);
748   push_stroke((70,0)–(930,0),
749     (1.6,1.6)–(1.6,1.6));
750   set_boserif(0,1,9);
751   expand_pbox;
752 enddef;

```



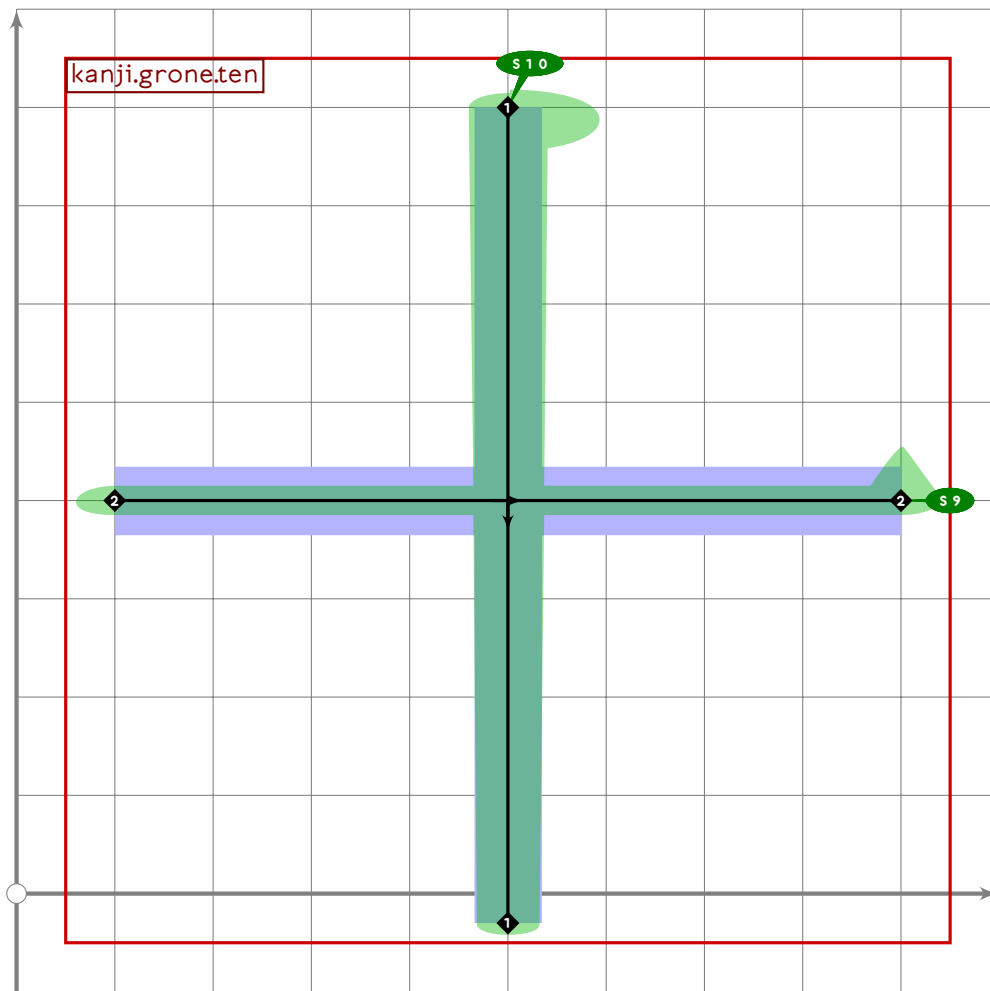
ONE



```

753
754 vardef kanji.grone.stone =
755   push_pbox_toexpand("kanji.grone.stone");
756   push_stroke((120,730)..(880,730),(1.6,1.6)–(1.6,1.6));
757   set_boserif(0,1,9);
758   push_stroke((430,730)..(330,440)..(200,270)..(50,160),
759     (1.6,1.6)–(1.5,1.5)–(1.3,1.3)–(0.8,0.8));
760   build_kanji.box((340,410),(840,30));
761   expand_pbox;
762 enddef;

```

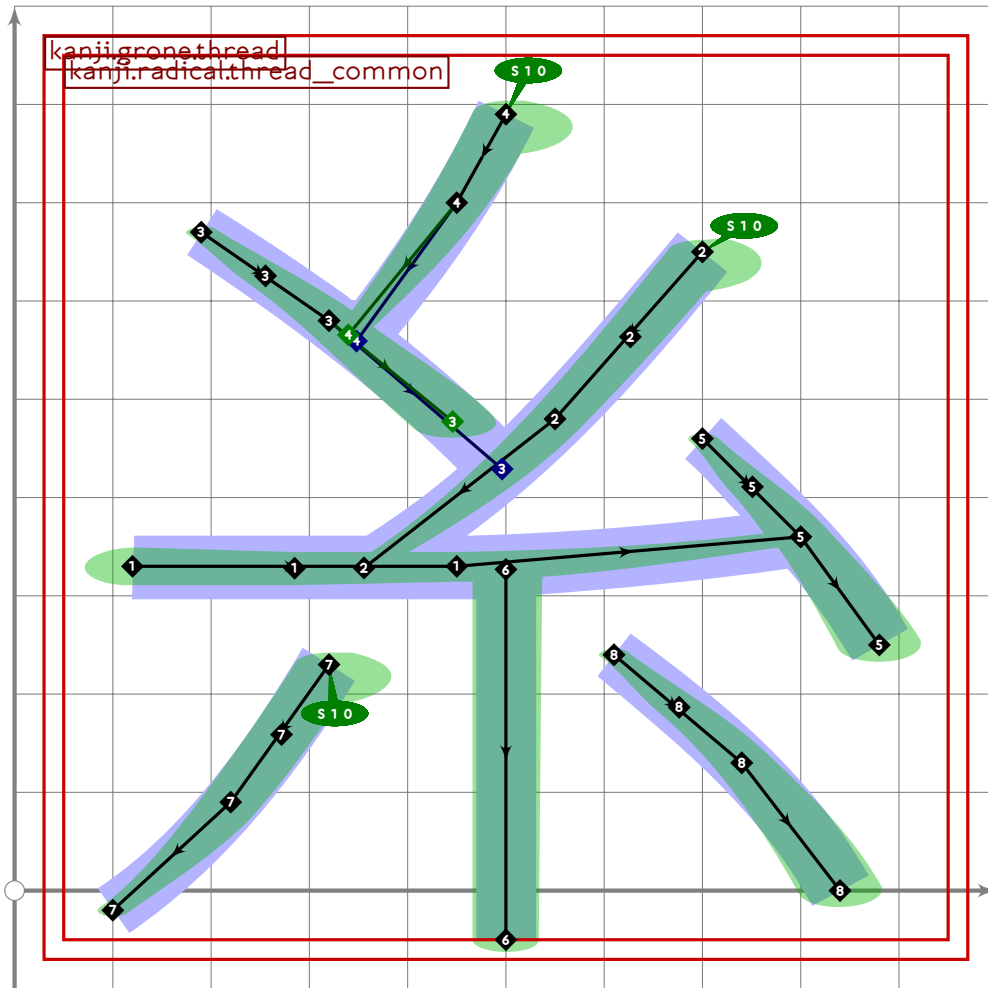


```

763
764 vardef kanji.grone.ten =
765   push_pbox_toexpand("kanji.grone.ten");
766   push_stroke((500,800)-(500,-30),(1.6,1.6)-(1.4,1.4));
767   set_boserif(0,0,10);
768   push_stroke((100,400)-(900,400),(1.6,1.6)-(1.6,1.6));
769   set_boserif(0,1,9);
770   expand_pbox;
771 enddef;

```

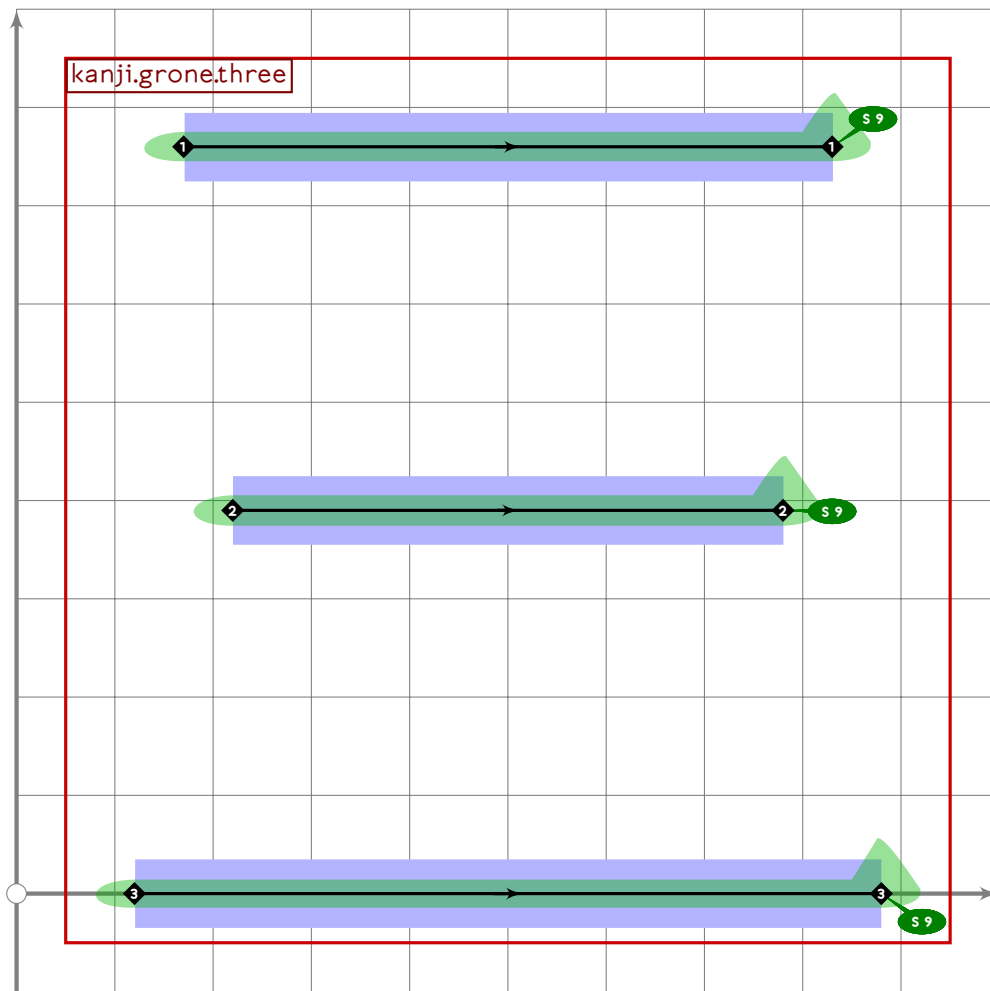
ONE



```

772
773 vardef kanji.grone.thread =
774   push_pbox_toexpand("kanji.grone.thread");
775   kanji.radical.thread_common;
776   push_stroke(
777     ((get_stroke(-4) intersectionpoint ((500,1000)-(500,0)))+(0,-5))
778     -(500,-50),
779     (1,6,1,6)-(1,5,1,5));
780   push_stroke((320,230)..tension 1.3..(220,90)..(100,20),
781     (1,6,1,6)-(1,5,1,5)-(1,1));
782   set_boserif(0,0,10);
783   push_stroke((610,240)..tension 1.3..(740,130)..(840,0),
784     (1,1)-(1,5,1,5)-(1,8,1,8));
785   for i=-7 upto 0: set_bosize(i,90); endfor;
786   expand_pbox;
787 enddef;

```



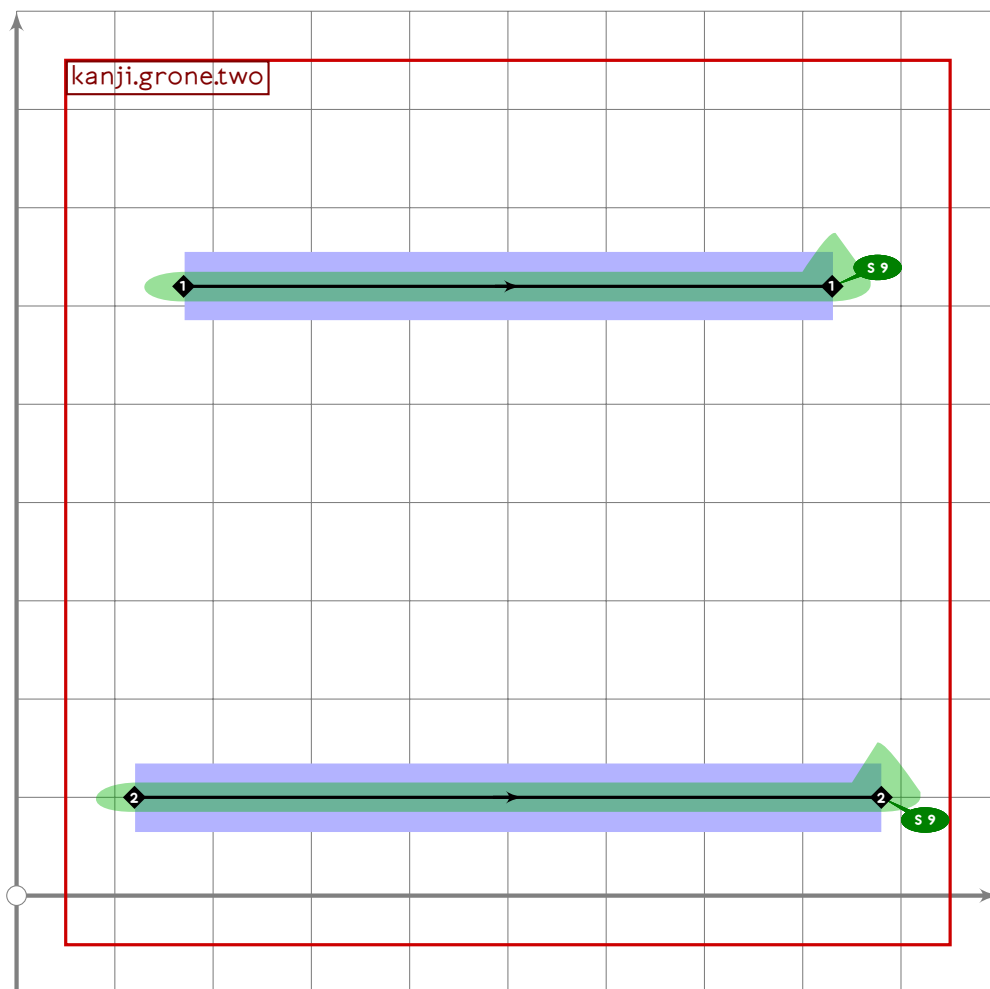
```

788
789 vardef kanji.grone.three =
790   push_pbox_toexpand("kanji.grone.three");
791   push_stroke((170,760)–(830,760),
792     (1.6,1.6)–(1.6,1.6));
793   set_boserif(0,1,9);
794   push_stroke((220,390)–(780,390),
795     (1.6,1.6)–(1.6,1.6));
796   set_boserif(0,1,9);
797   push_stroke((120,0)–(880,0),
798     (1.6,1.6)–(1.6,1.6));
799   set_boserif(0,1,9);
800   expand_pbox;
801 enddef;

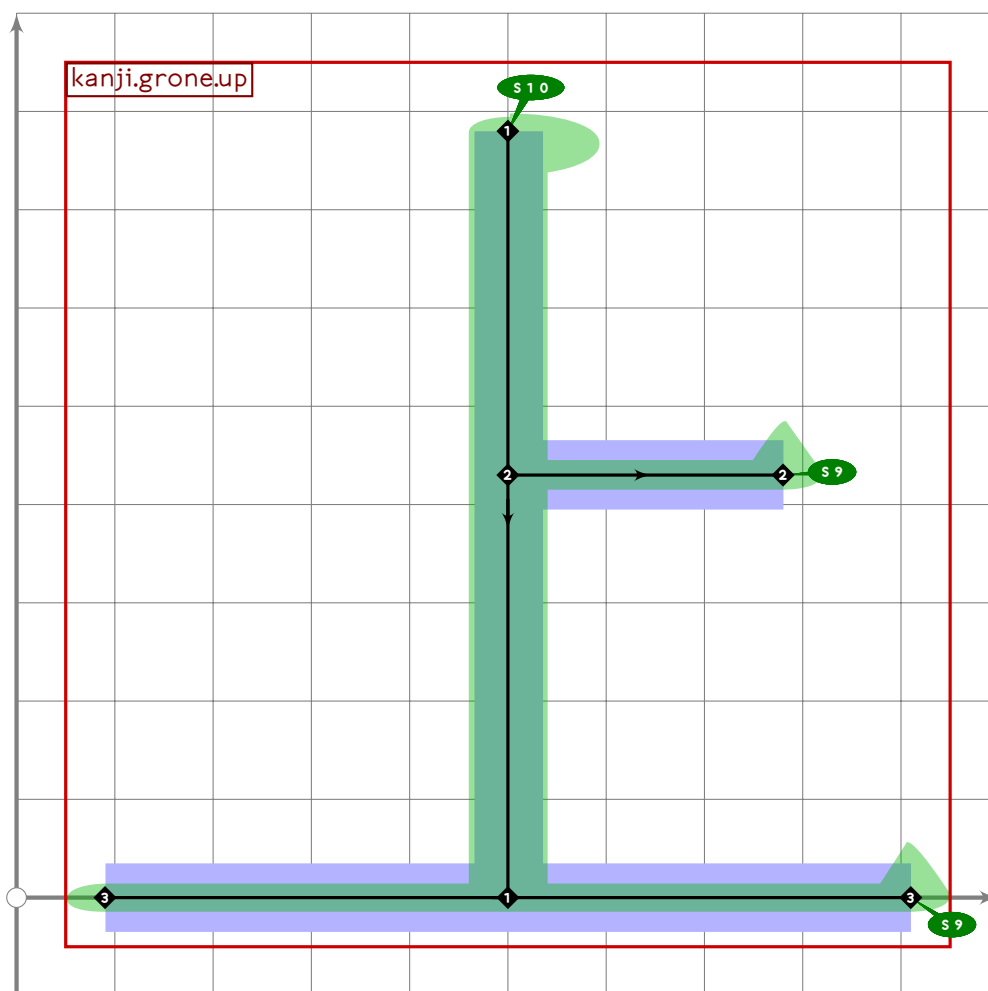
```

U+4E8C  
tsuku.uni4E8C

ONE



```
802
803 vardef kanji.grone.two =
804   push_pbox_toexpand("kanji.grone.two");
805   push_stroke((170,620)–(830,620),(1.6,1.6)–(1.6,1.6));
806   set_boserif(0,1,9);
807   push_stroke((120,100)–(880,100),(1.6,1.6)–(1.6,1.6));
808   set_boserif(0,1,9);
809   expand_pbox;
810 enddef;
```

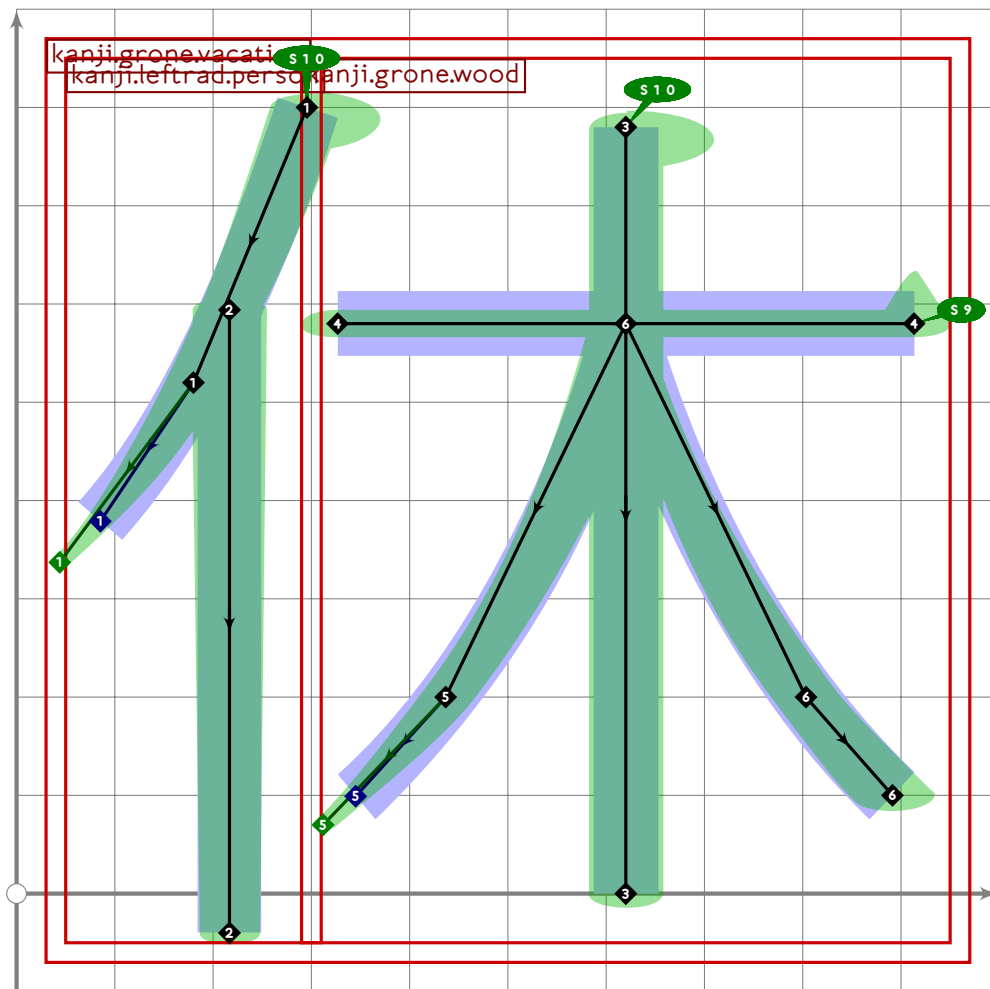


```

811
812 vardef kanji.grone.up =
813   push_pbox_toexpand("kanji.grone.up");
814   push_stroke((500,780)–(500,0),
815     (1.6,1.6)–(1.6,1.6));
816   set_boserif(0,0,10);
817   push_stroke((500,430)–(780,430),
818     (1.6,1.6)–(1.6,1.6));
819   set_boserif(0,1,9);
820   push_stroke((90,0)–(910,0),
821     (1.6,1.6)–(1.6,1.6));
822   set_boserif(0,1,9);
823   expand_pbox;
824 enddef;

```

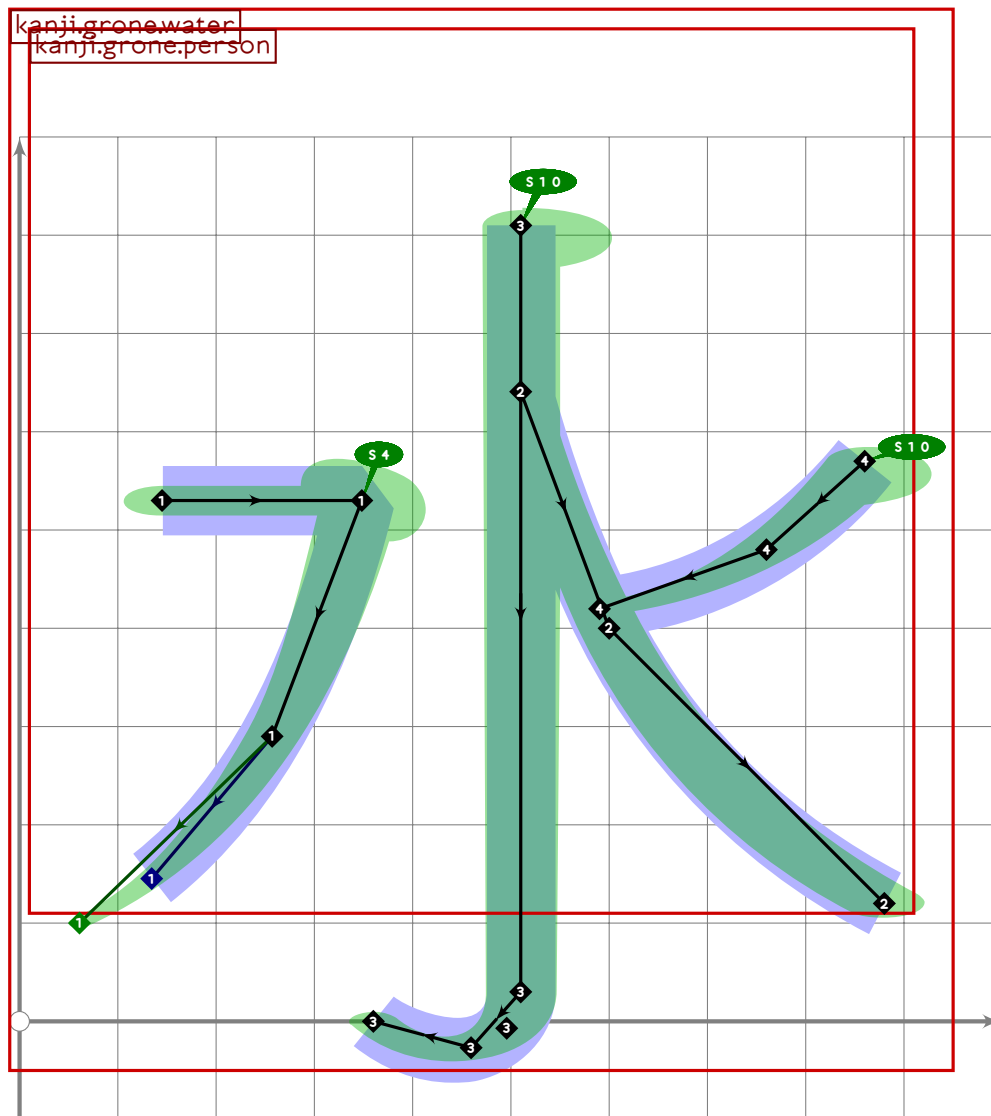
ONE



```

825
826 vardef kanji.grone.vacation =
827   push_pbox_toexpand("kanji.grone.vacation");
828   build_kanji.lr(300,20)
829     (kanji.leftrad.person)
830     (kanji.grone.wood);
831   expand_pbox;
832 enddef;

```



```

833
834 vardef kanji.grone.water =
835   push_pbox_toexpand("kanji.grone.water");
836   tsu_xform(identity shifted (-40,160))(kanji.grone.person);
837   replace_strokep(-1)((100,500)-
838     (subpath (xpart (oldp intersectiontimes
839       ((0,500)-(1000,500))),infinity) of oldp))
840     shifted (-250,0) xscaled 0.7 shifted (250,30));
841   replace_strokeq(-1)((1.6,1.6)-(1.6,1.6)-(1.3,1.3)-(0.85,0.85));
842   set_boserif(-1,0,whatever);
843   set_boserif(-1,1,4);
844   set_botip(-1,1,0);
845   push_stroke((510,810),(1.6,1.6));
846   build_kanji.add_jtail(0);
847   set_boserif(0,0,10);
848   replace_strokep(-1)(
849     subpath (xpart (oldp intersectiontimes get_strokep(0)),infinity)
850     of oldp);

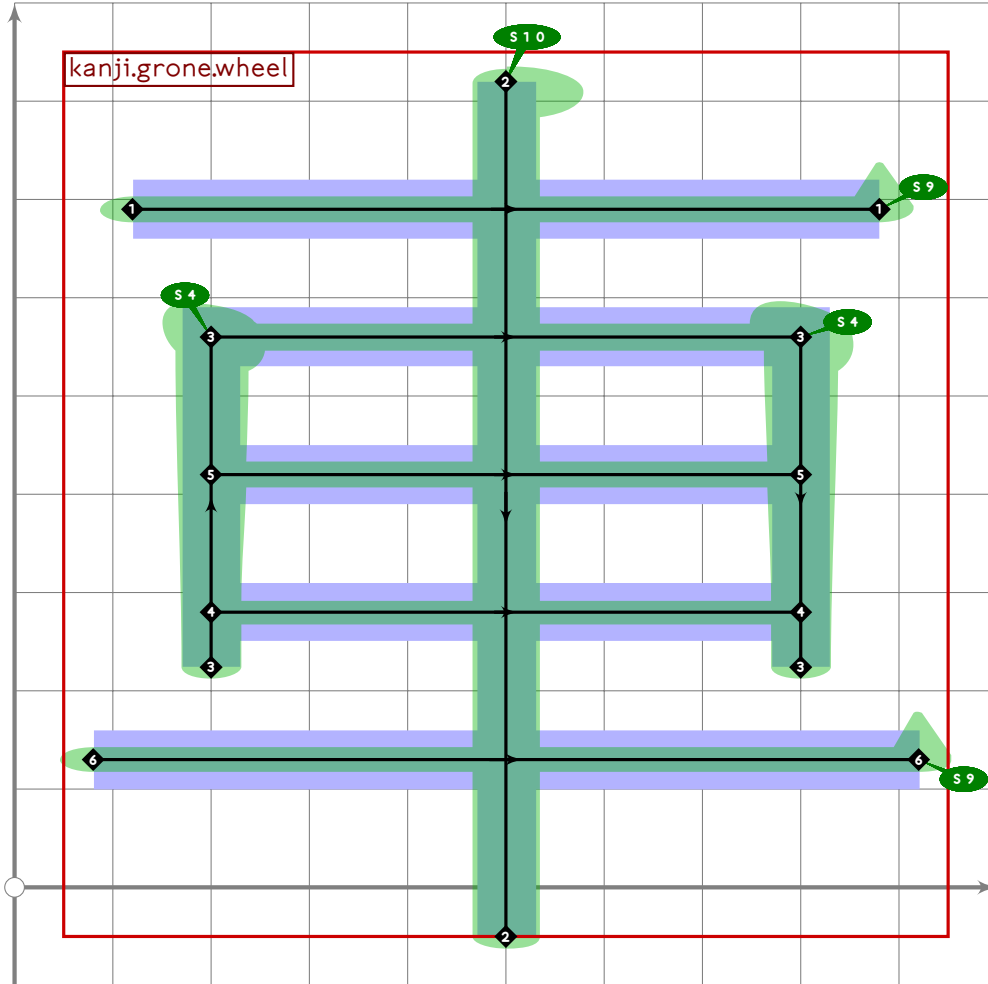
```



```

851 push_stroke((860,570)..(760,480)..(point 0.9 of get_stroke(-1)),
852   (1.6,1.6)–(1.4,1.4)–(1,1));
853 set_boserif(0,0,10);
854 expand_pbox;
855 enddef;

```

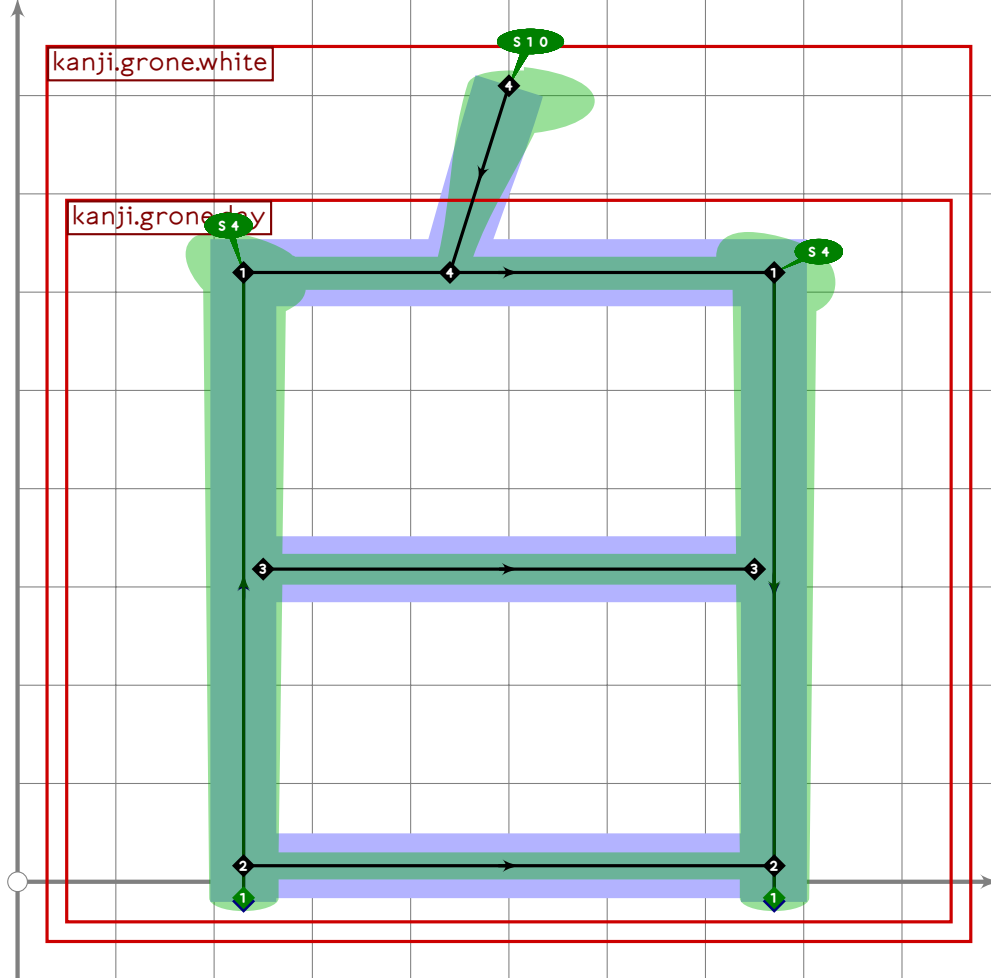


```

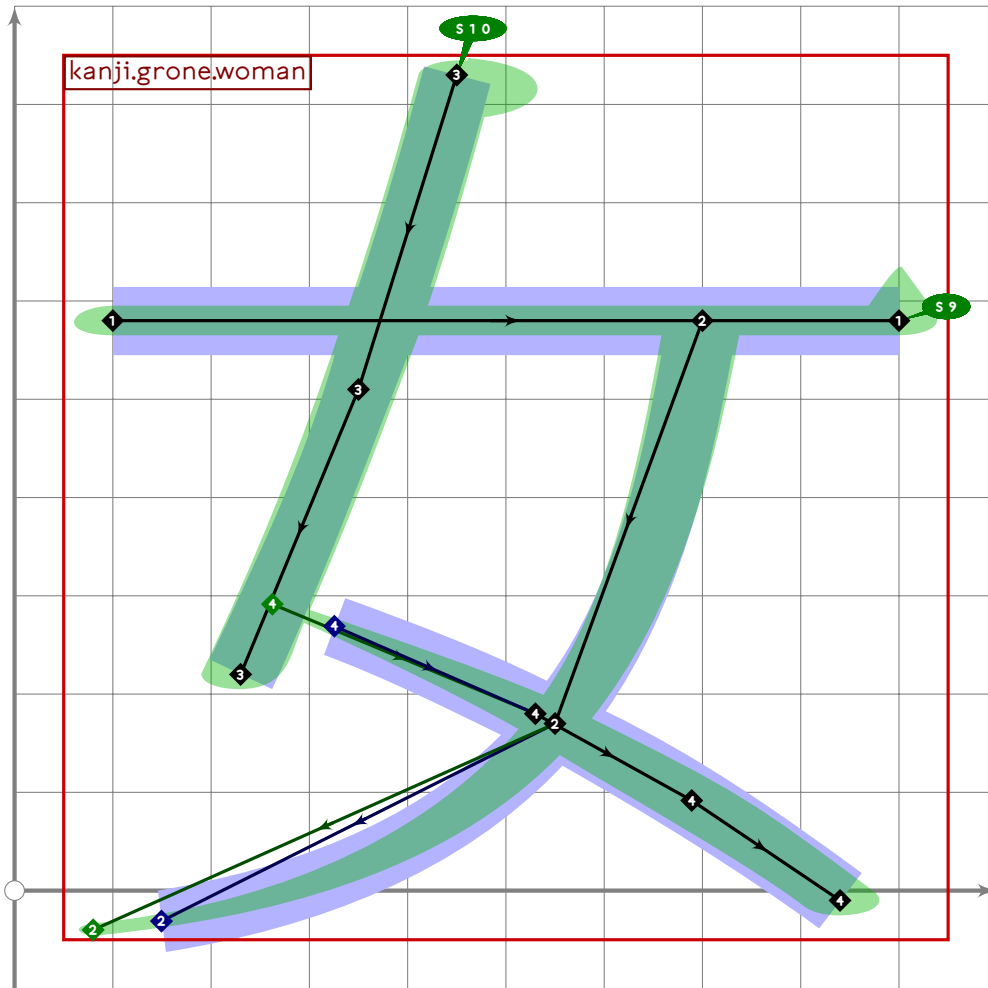
856
857 vardef kanji.grone.wheel =
858   push_pbox_toexpand("kanji.grone.wheel");
859   push_stroke((120,690)–(880,690),
860     (1.6,1.6)–(1.6,1.6));
861   set_boserif(0,1,9);
862   push_stroke((500,820)–(500,50),
863     (1.6,1.6)–(1.6,1.6));
864   set_boserif(0,0,10);
865   build_kanji.box((200,560),(800,280));
866   push_stroke((200,420)–(800,420),
867     (1.6,1.6)–(1.6,1.6));
868   push_stroke((80,130)–(920,130),
869     (1.6,1.6)–(1.6,1.6));
870   set_boserif(0,1,9);
871   for i=-5 upto 0: set_bosize(i,85); endfor;

```

```
872 expand_pbox;
873 enddef;
```



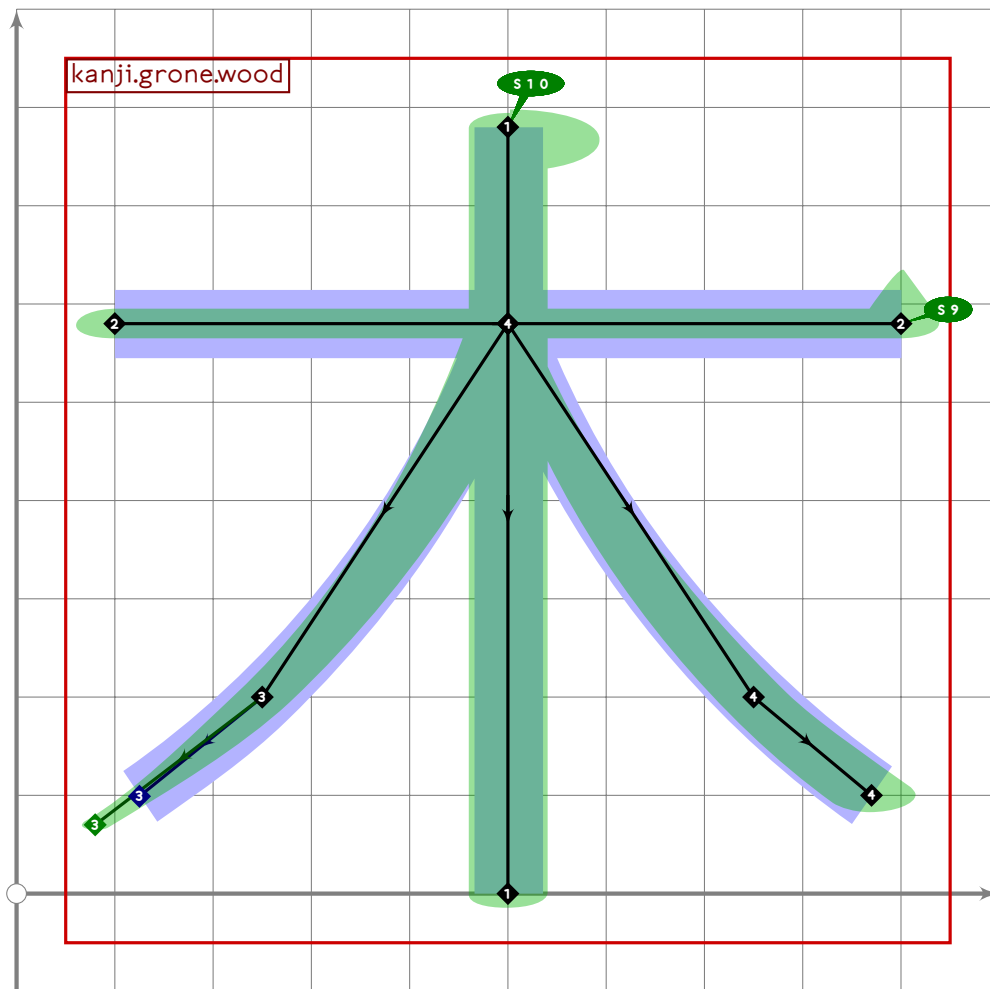
```
874
875 vardef kanji.grone.white =
876   push_pbox_toexpand("kanji.grone.white");
877   build_kanji.attach_tick(620)(kanji.grone.day);
878   expand_pbox;
879 enddef;
```



```

880
881 vardef kanji.grone.woman =
882   push_pbox_toexpand("kanji.grone.woman");
883   push_stroke((100,580)–(900,580),
884     (1.6,1.6)–(1.6,1.6));
885   set_boserif(0,1,9);
886   push_stroke((700,580){curl 0}..(550,170)..{curl 0.3}(80,-40),
887     (1.6,1.6)–(1.4,1.4)–(0.94,0.94));
888   push_stroke((450,830)..(350,510)..(230,220),
889     (1.6,1.6)–(1.6,1.6)–(1.6,1.6));
890   set_boserif(0,0,10);
891   push_stroke((point 1.75 of get_stroke(0))..(530,180)..(840,-10),
892     (0.85,0.85)–(1.5,1.5)–(1.8,1.8)–(1.6,1.6));
893   replace_stroke(0)(insert_nodes(oldp)(1.5));
894   expand_pbox;
895 enddef;

```



```

896
897 vardef kanji.grone.wood =
898   push_pbox_toexpand("kanji.grone.wood");
899   push_stroke((500,780)–(500,0),
900     (1.6,1.6)–(1.6,1.6));
901   set_boserif(0,0,10);
902   push_stroke((100,580)–(900,580),
903     (1.6,1.6)–(1.6,1.6));
904   set_boserif(0,1,9);
905   push_stroke((500,580)..(250,200)..(80,70),
906     (1.6,1.6)..(1.3,1.3)..(0.9,0.9));
907   push_stroke((500,580)..(750,200)..(870,100),
908     (1.1,1.1)..(1.5,1.5)..(1.7,1.7));
909   expand_pbox;
910 enddef;

```

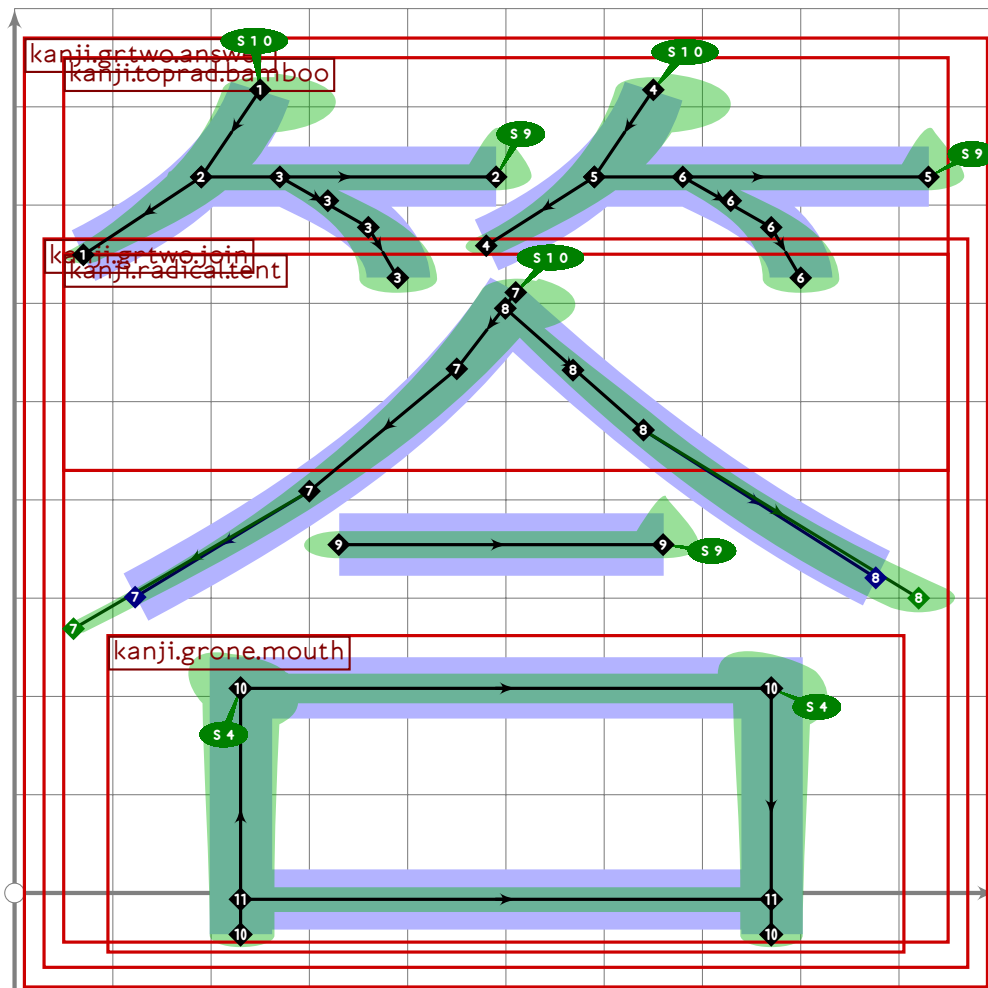
# gradetwo.mp

TWO

```

1 %
2 % Grade Two kanji used on more than one page
3 % Copyright (C) 2011, 2012, 2013, 2014, 2016, 2017 Matthew Skala
4 %
5-29 [Standard copyright notice]
30
31 inclusion_lock(gradetwo);
32
33

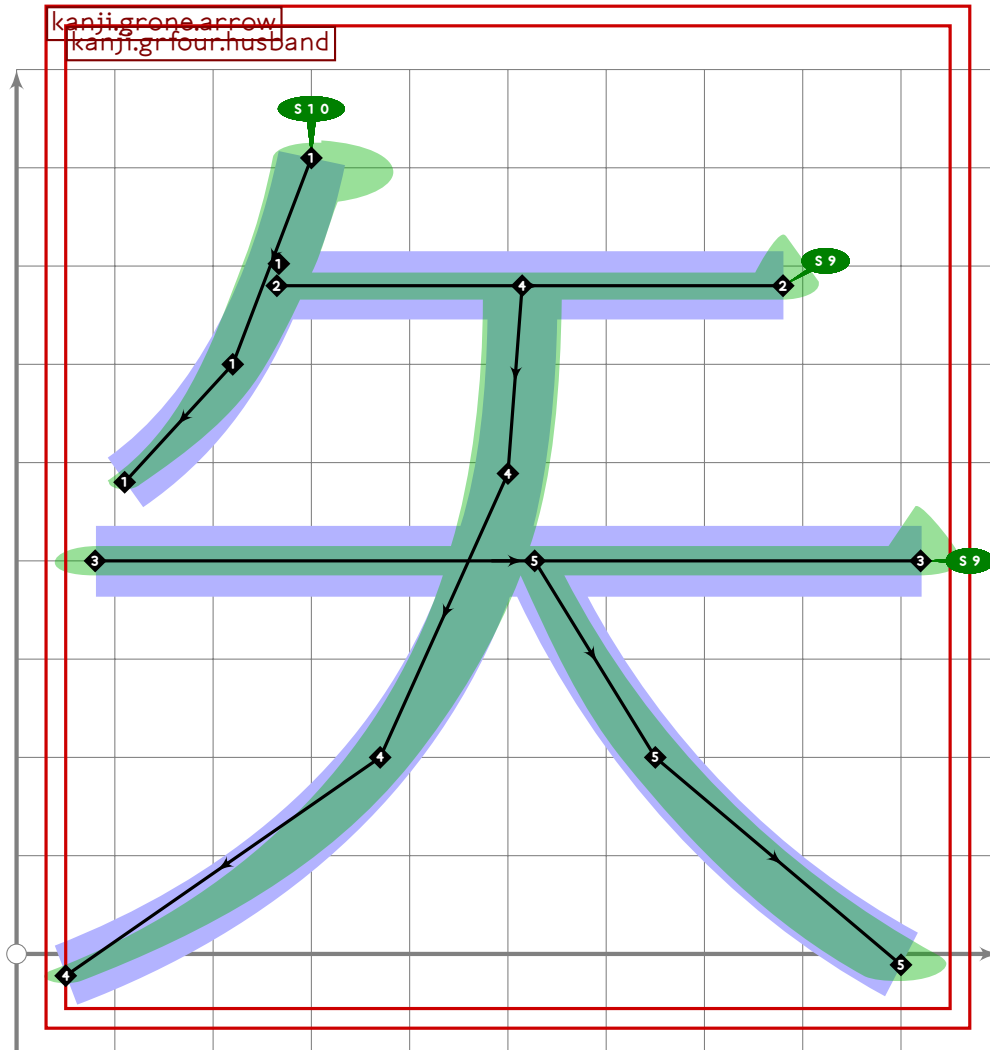
```



```

34
35 vardef kanji.grtwo.answer =
36   push_pbox_toexpand("kanji.grtwo.answer");
37   build_kanji.level(build_kanji.tb(540,220)
38     (kanji.toprad.bamboo)
39     (kanji.grtwo.join));
40   expand_pbox;
41 enddef;

```



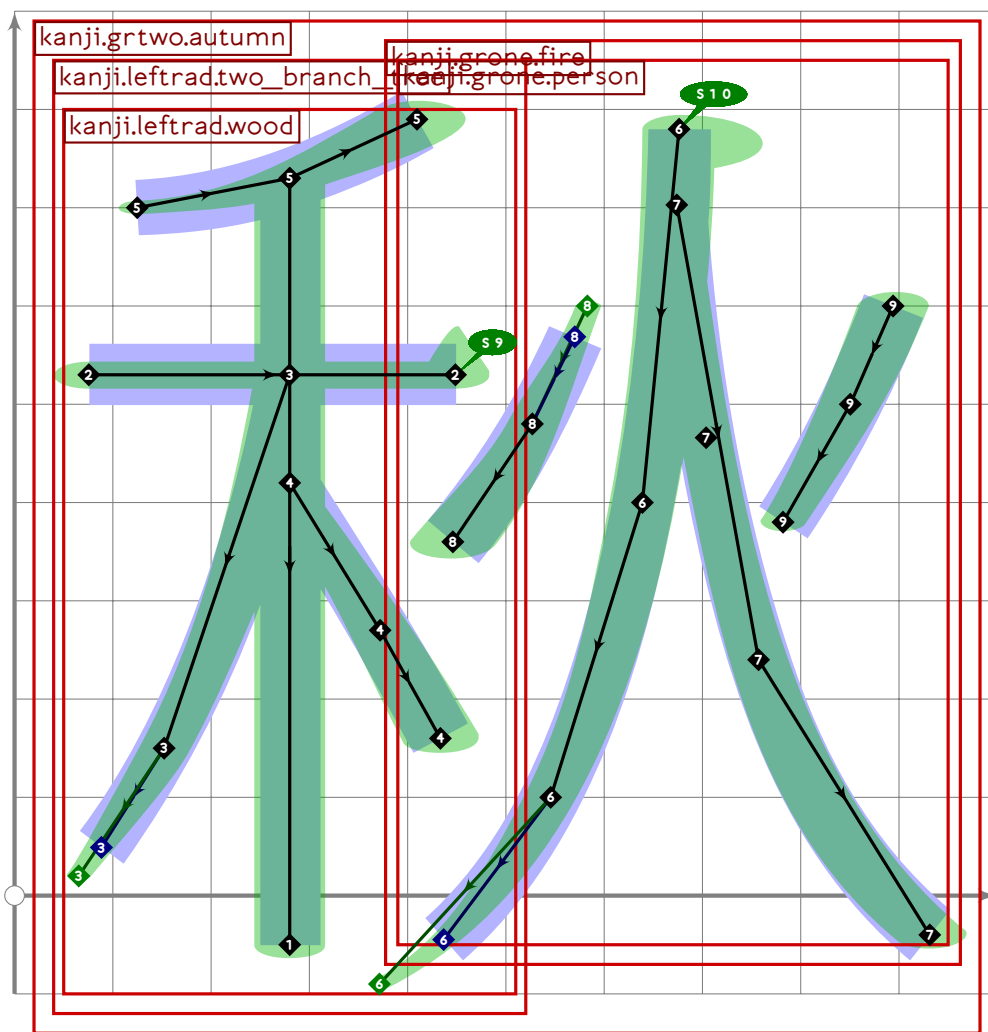
TWO

```

42
43 vardef kanji.grtwo.arrow =
44   push_pbox_toexpand("kanji.grone.arrow");
45   push_stroke((300,810)..tension 1.2..(220,600)..(110,480),
46     (1.6,1.6)-(1.4,1.4)-(1,1));
47   set_boserif(0,0,10);
48   tsu_xform(identity yscaled (400/360))(kanji.grfour.husband);
49   replace_stroke(-3)((100,680)-(780,680));
50   replace_stroke(-3)(subpath
51     (0.01+xpart (oldp intersectiontimes get_stroke(-4)),1) of oldp);
52   replace_stroke(-1)(subpath
53     (xpart (oldp intersectiontimes get_stroke(-3)),infinity) of oldp);
54   set_boserif(-1,0,whatever);
55   expand_pbox;
56 enddef;

```

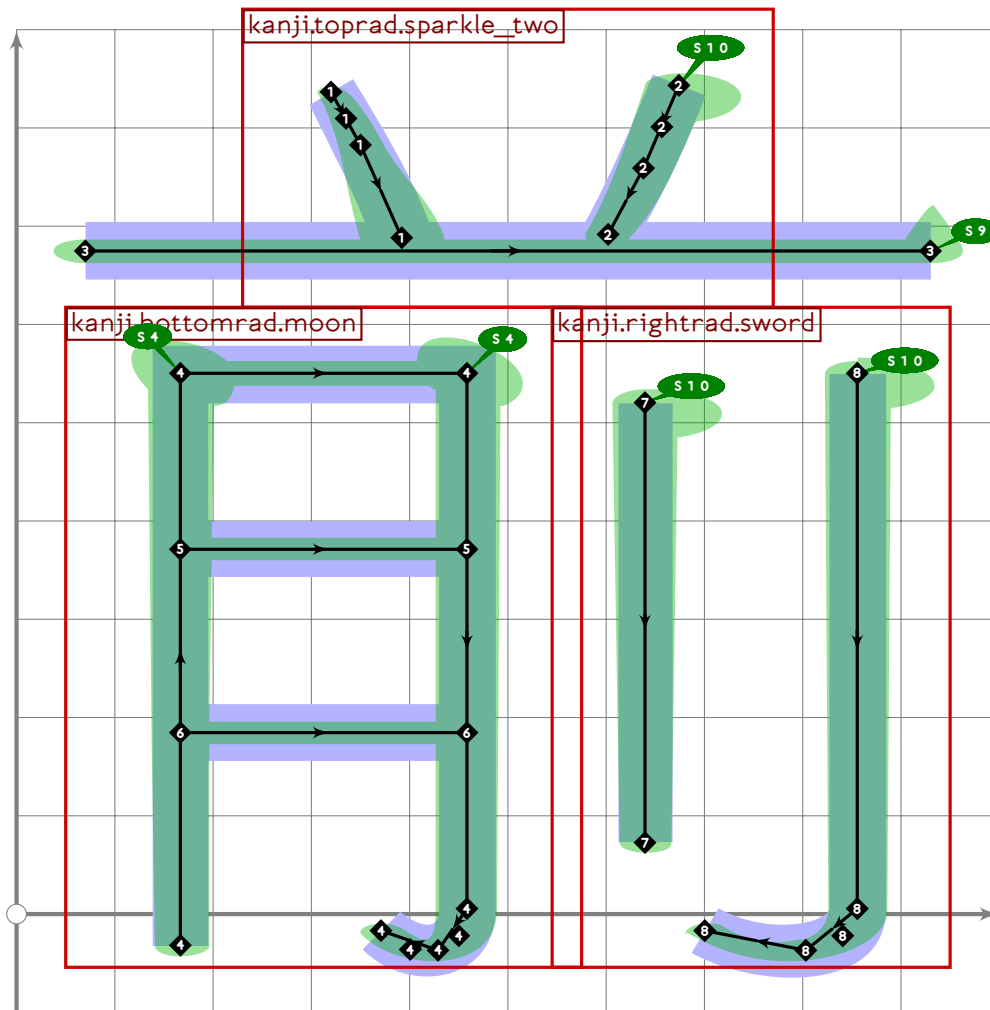
TWO



```

57
58 vardef kanji.grtwo.autumn =
59   push_pbox_toexpand("kanji.grtwo.autumn");
60   build_kanji.lr(450,120)
61     (kanji.leftrad.two_branch_tree)
62     (kanji.grone.fire);
63   expand_pbox;
64 enddef;

```



TWO

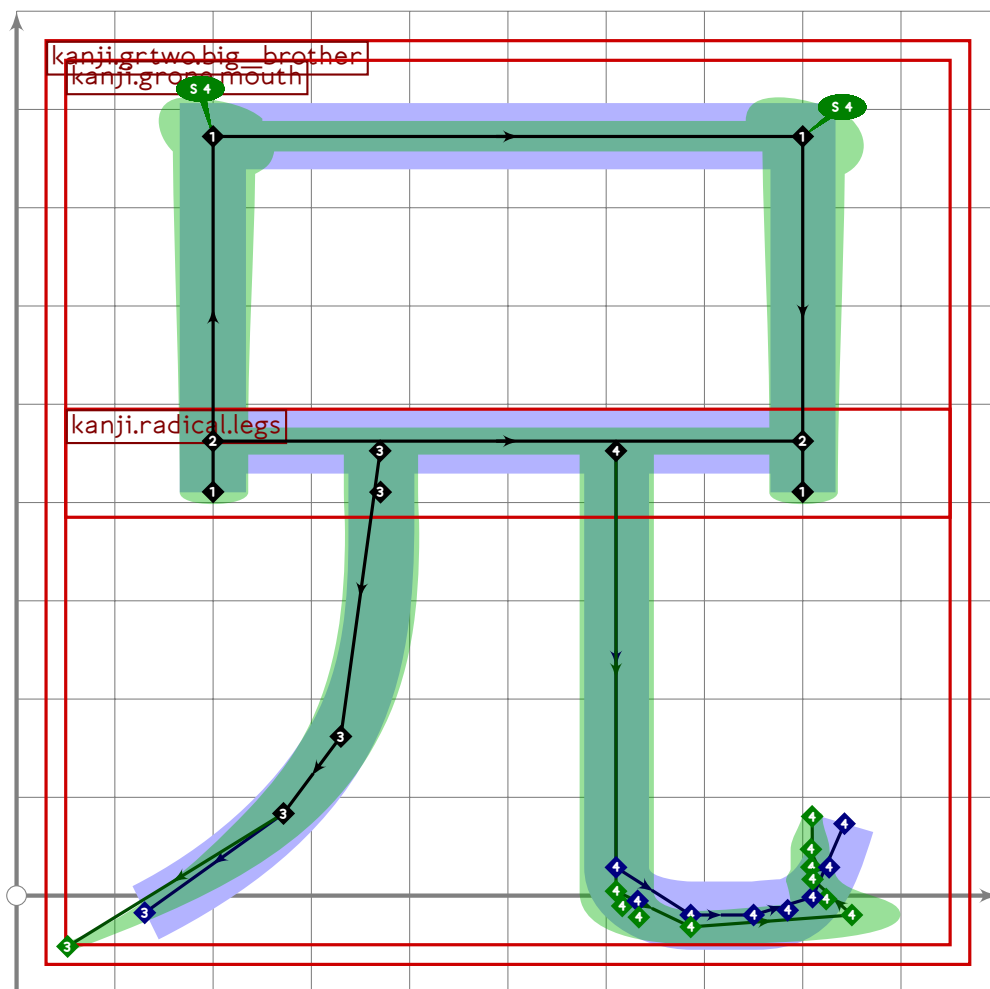
```

65
66 vardef kanji.grtwo.before =
67   tsu_xform(identity yscaled (780/720))
68   (build_kanji.level(build_kanji.tb(570,0)
69     (build_kanji.sscale(xscaled 0.6)(kanji.toprad.sparkle_two);
70     push_stroke((70,120)-(930,120),(1.6,1.6)-(1.6,1.6));
71     set_boserif(0,0,whatever);
72     set_boserif(0,1,9))
73   (build_kanji.lr(560,30)
74     (kanji.bottomrad.moon)
75     (kanji.rightrad.sword)))));
76 enddef;

```



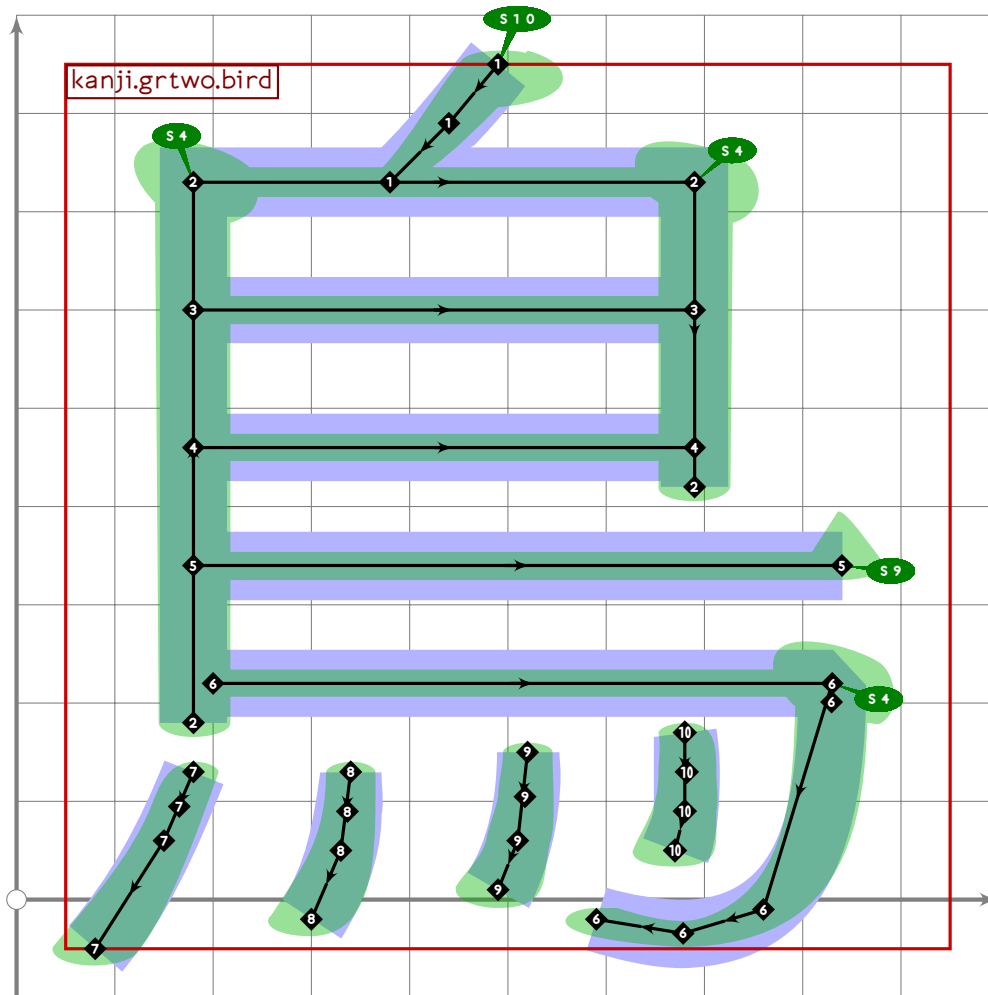
TWO



```

77
78 vardef kanji.grtwo.big_brother =
79   push_pbox_toexpand("kanji.grtwo.big_brother");
80   build_kanji.level(build_kanji.tb(440,110)
81     (kanji.grone.mouth)
82     (kanji.radical.legs));
83   expand_pbox;
84 enddef;

```



TWO

```

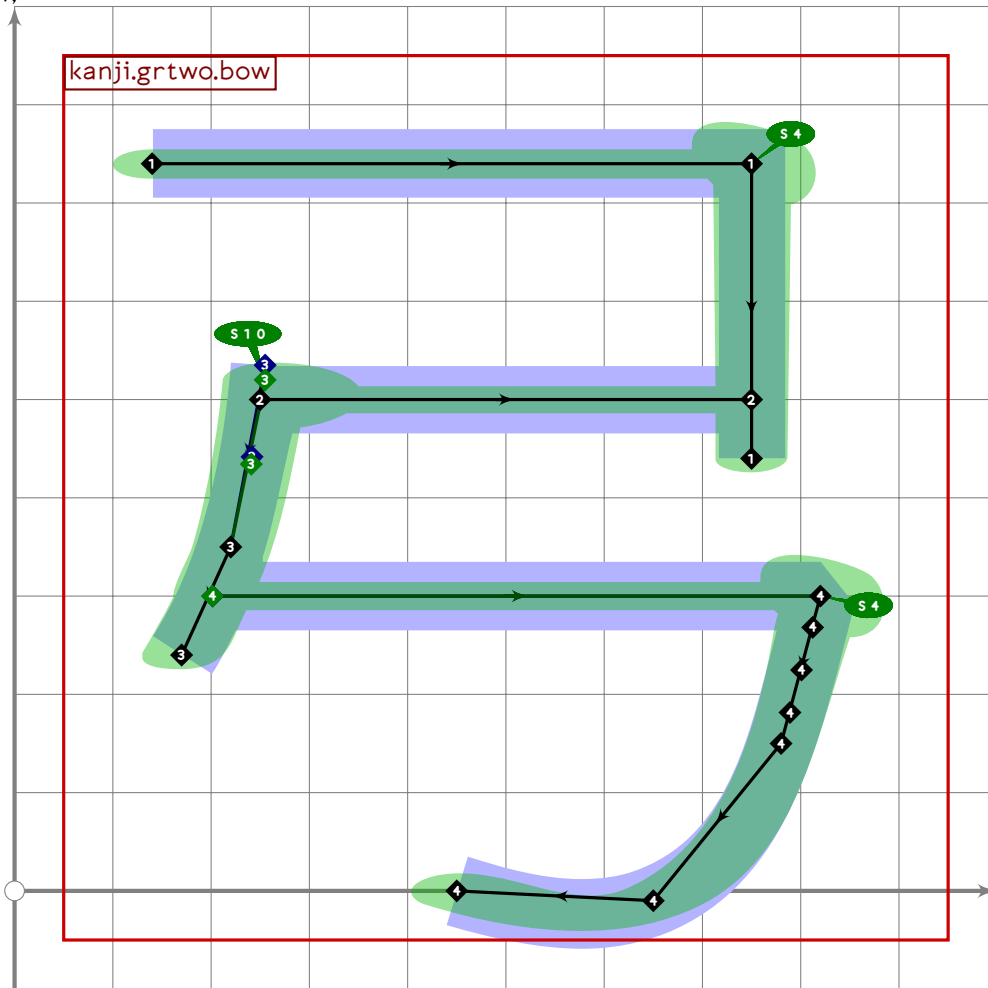
85
86 vardef kanji.grtwo.bird =
87   push_pbox_toexpand("kanji.grtwo.bird");
88   push_stroke((490,850){curl 0.1}..(440,790)..(380,730),
89     (1.6,1.6)–(1.4,1.4)–(1.1,1.1));
90   set_boserif(0,0,10);
91   push_stroke((180,180)–(180,730)–(690,730)–(690,420),
92     (1.5,1.5)–(1.6,1.6)–(1.6,1.6)–(1.5,1.5));
93   set_boserif(0,1,4);
94   set_boserif(0,2,4);
95   set_botip(0,1,1);
96   set_botip(0,2,1);
97   push_stroke((180,600)–(690,600),
98     (1.5,1.5)–(1.5,1.5));
99   push_stroke((180,460)–(690,460),
100     (1.5,1.5)–(1.5,1.5));
101   push_stroke((180,340)–(840,340),
102     (1.5,1.5)–(1.6,1.6));
103   set_boserif(0,1,9);
104   push_stroke((200,220)–(830,220){dir 268}..(760,-10){curl 0.2}(590,-20),
105     (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

```
106 replace_stroke(0)(insert_nodes(oldp)((length oldp)-0.5));
107 set_boserif(0,14);
108 set_botip(0,1);
109 push_stroke((180,130)..tension 1.2..(150,60)..(80,-50),
110   (1.2,1.2)-(1.4,1.4)-(1.7,1.7));
111 push_stroke((340,130)..tension 1.2..(330,50)..(300,-20),
112   (1.2,1.2)-(1.4,1.4)-(1.7,1.7));
113 push_stroke((520,150)..tension 1.2..(510,60)..(490,10),
114   (1.2,1.2)-(1.4,1.4)-(1.7,1.7));
115 push_stroke((680,170)..tension 1.2..(680,90)..(670,50),
116   (1.2,1.2)-(1.4,1.4)-(1.7,1.7));
117 expand_pbox;
118 enddef;
```



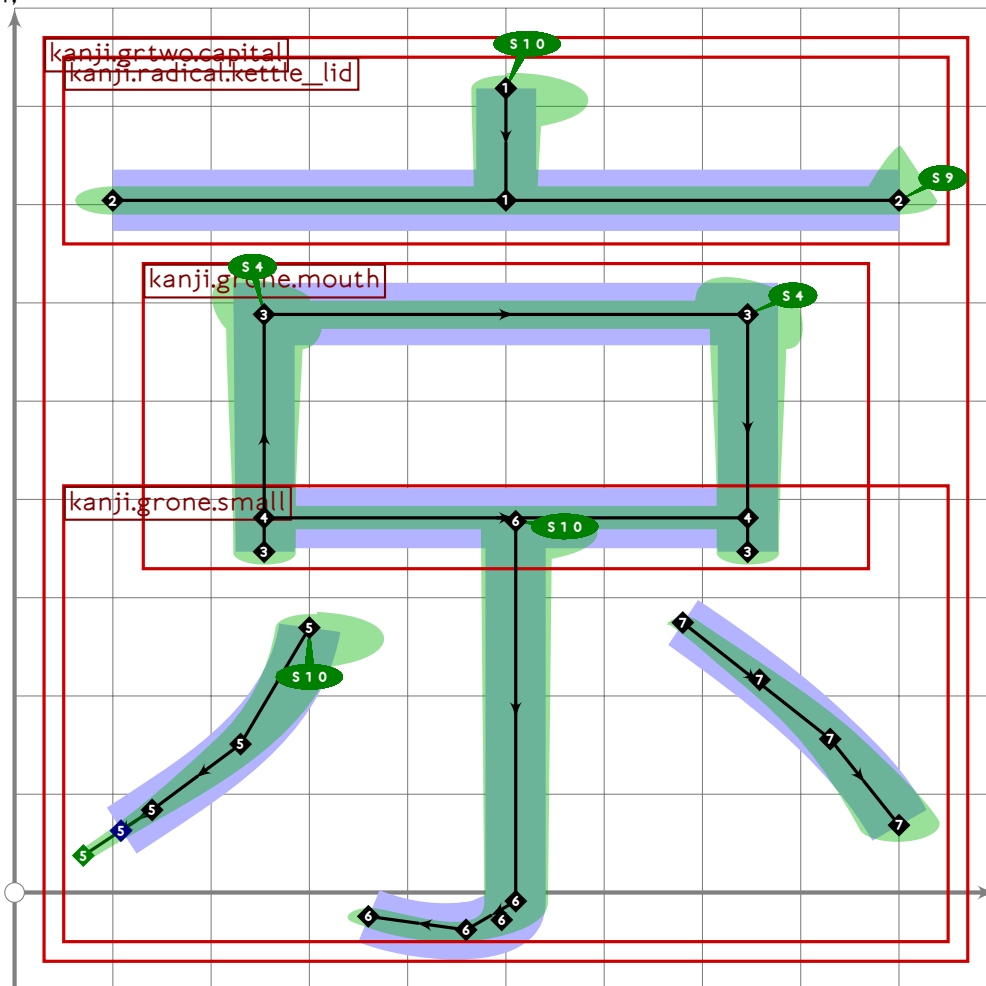
```
119
120 vardef kanji.grtwo.bow =
121   push_pbox_toexpand("kanji.grtwo.bow");
122   push_stroke((140,740)-(750,740)-(750,440),
123     (1.6,1.6)-(1.6,1.6)-(1.5,1.5));
124   set_botip(0,1);
125   set_boserif(0,14);
126   push_stroke((250,500)-(750,500),
```

```

127 (1.5,1.5)-(1.5,1.5));
128 push_stroke((255,535-15*mincho)..tension 1.2..(220,350)..(170,240),
129 (1.7,1.7)-(1.6,1.6)-(1.6,1.6));
130 set_boserif(0,0,10);
131 push_stroke((get_strokep(0) intersectionpoint ((0,300)-(1000,300)))-(
132 (820,300)..tension 1.7..(780,150)..(650,-10)..{curl 0.1}(450,0),
133 (1.6,1.6)-(1.6,1.6)-(1.5,1.5)-(1.7,1.7)-(1.8,1.8));
134 set_botip(0,1,1);
135 set_boserif(0,1,4);
136 expand_pbox;
137 enddef;

```

TWO



```

138
139 vardef kanji.grtwo.capital =
140   push_pbox_toexpand("kanji.grtwo.capital");
141   build_kanji.level(build_kanji.tb(650,20)
142     (kanji.radical.kettle_lid)
143     (build_kanji.tb(500,110)
144       (build_kanji.sscale(xscaled 0.82)(kanji.grone.mouth))
145       (kanji.grone.small)));
146   set_boserif(0,0,whatever);
147   expand_pbox;

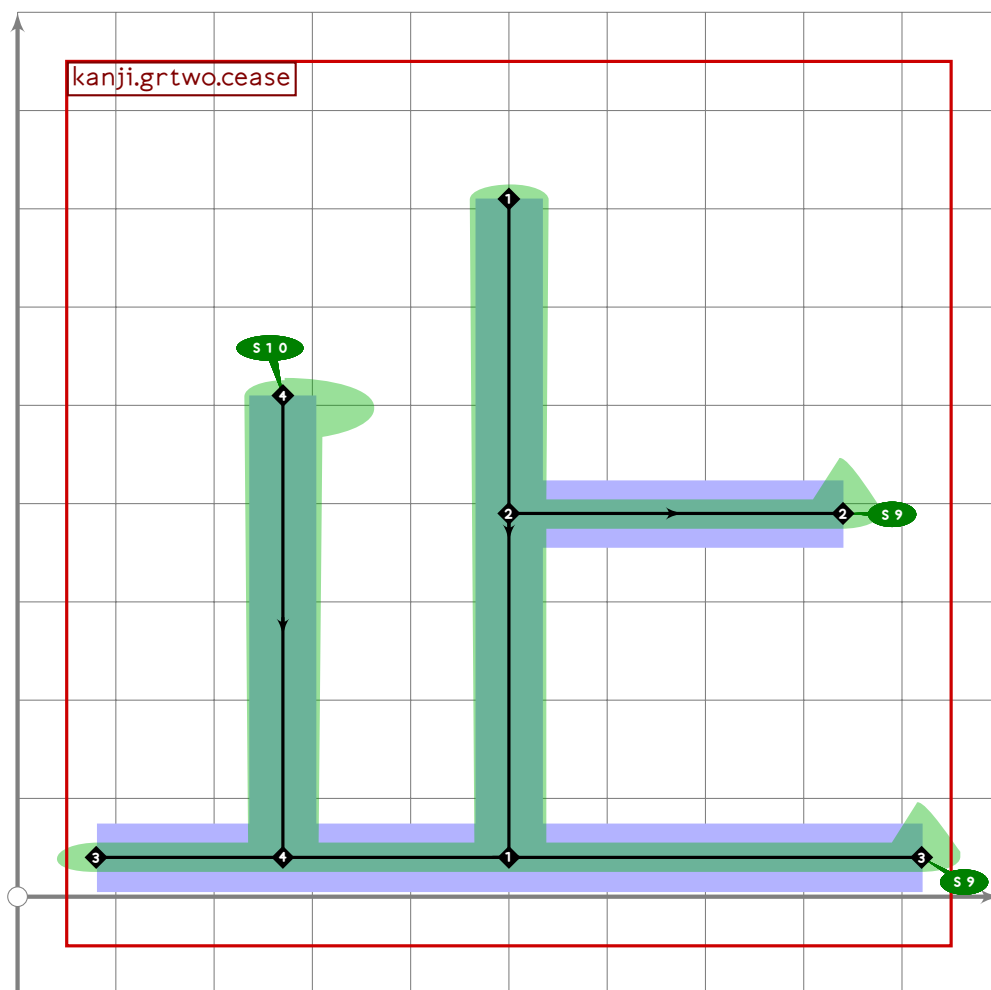
```

U+6B62  
tsuku.uni6B62

148 enddef;

149

TWO



150 % can't use "stop," it is reserved by Metafont

151 vardef kanji.grtwo.cease =

152 push\_pbox\_toexpand("kanji.grtwo.cease");

153 push\_stroke((500,710)–(500,40),(1.6,1.6)–(1.5,1.5));

154 push\_stroke((500,390)–(840,390),(1.5,1.5)–(1.6,1.6));

155 set\_boserif(0,1,9);

156 push\_stroke((80,40)–(920,40),(1.6,1.6)–(1.6,1.6));

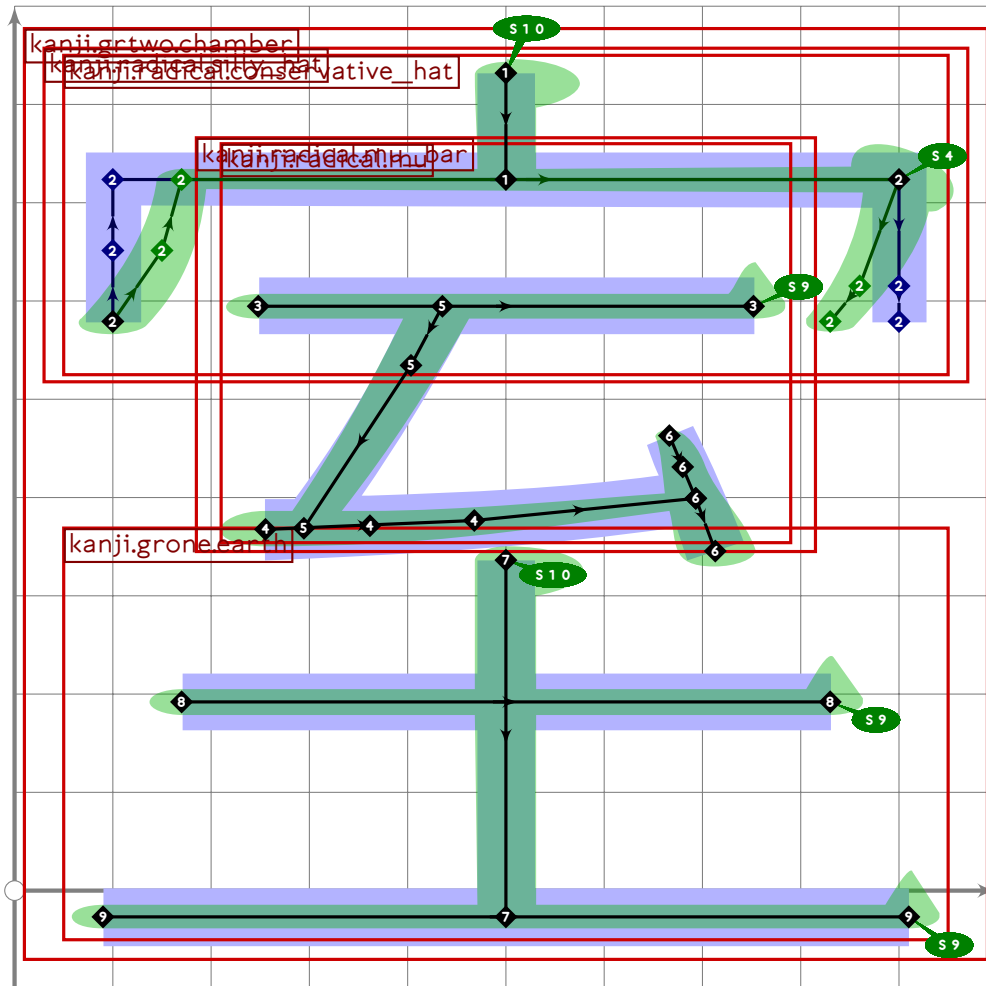
157 set\_boserif(0,1,9);

158 push\_stroke((270,510)–(270,40),(1.6,1.6)–(1.5,1.5));

159 set\_boserif(0,0,10);

160 expand\_pbox;

161 enddef;



TWO

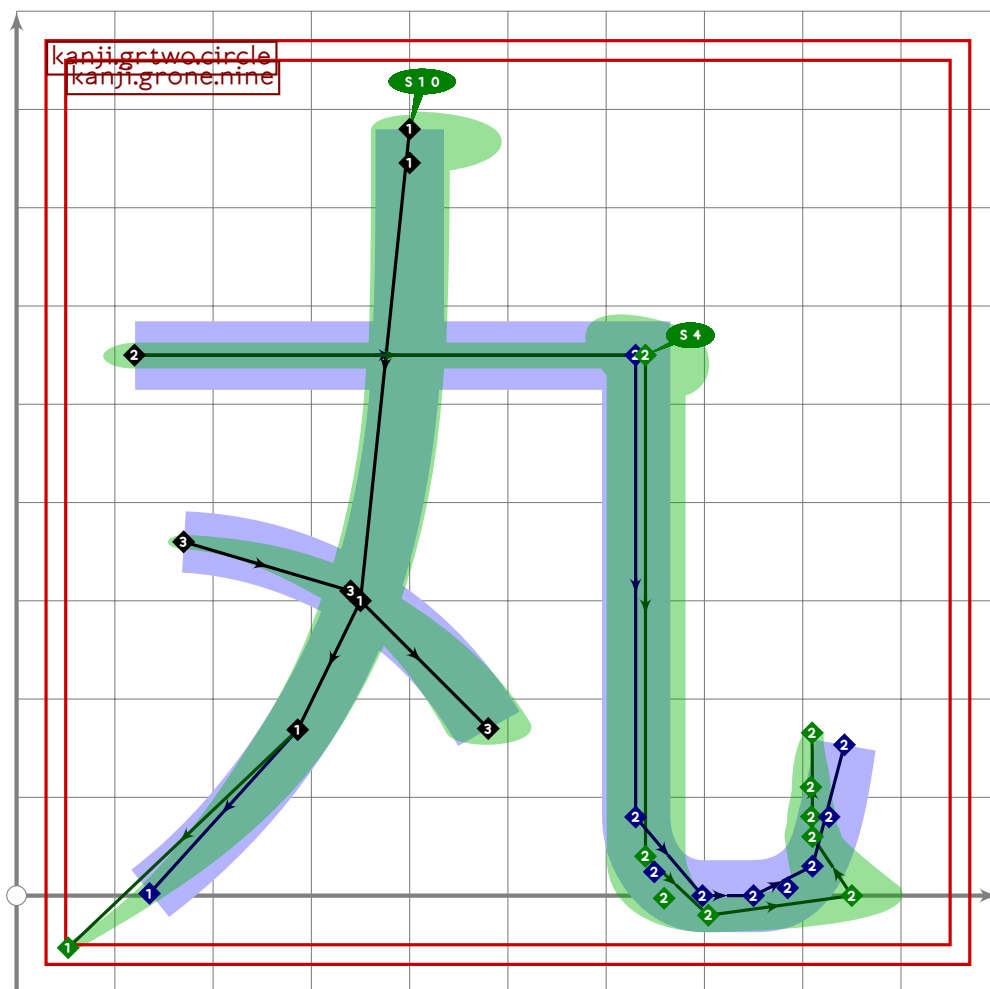
```

162
163 vardef kanji.grtwo.chamber =
164   push_pbox_toexpand("kanji.grtwo.chamber");
165   build_kanji.tb(600,150)
166     (kanji.radical.silly_hat)
167     (build_kanji.level(build_kanji.tb(420,100)
168       (build_kanji.sscale(scaled 0.7)(kanji.radical.mu_bar))
169       (kanji.grone.earth)));
170   expand_pbox;
171 enddef;

```

U+4E38  
tsuku.uni4E38

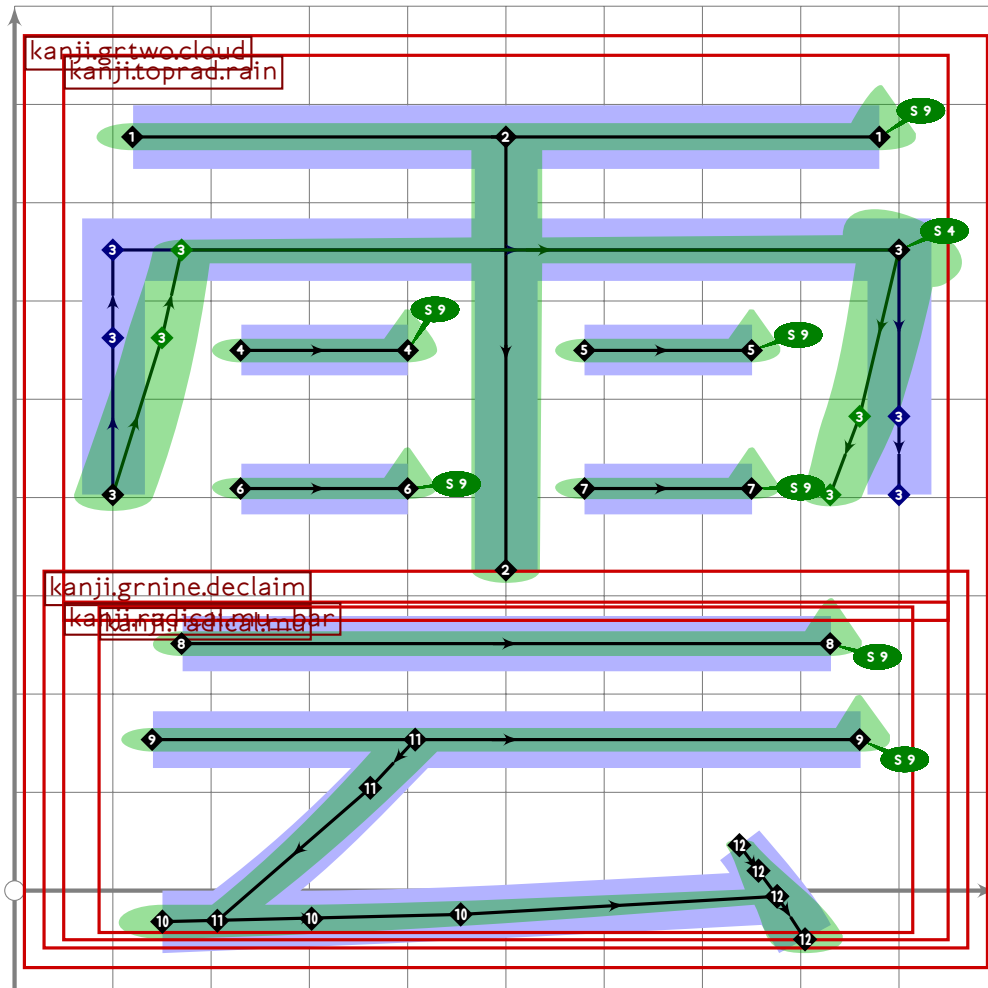
TWO



```

172
173 vardef kanji.grtwo.circle =
174   push_pbox_toexpand("kanji.grtwo.circle");
175   kanji.grone.nine;
176   push_stroke((170,360)..(340,310)..(480,170),
177     (1,1)-(14,14)-(1.7,1.7));
178   expand_pbox;
179 enddef;

```



TWO

```

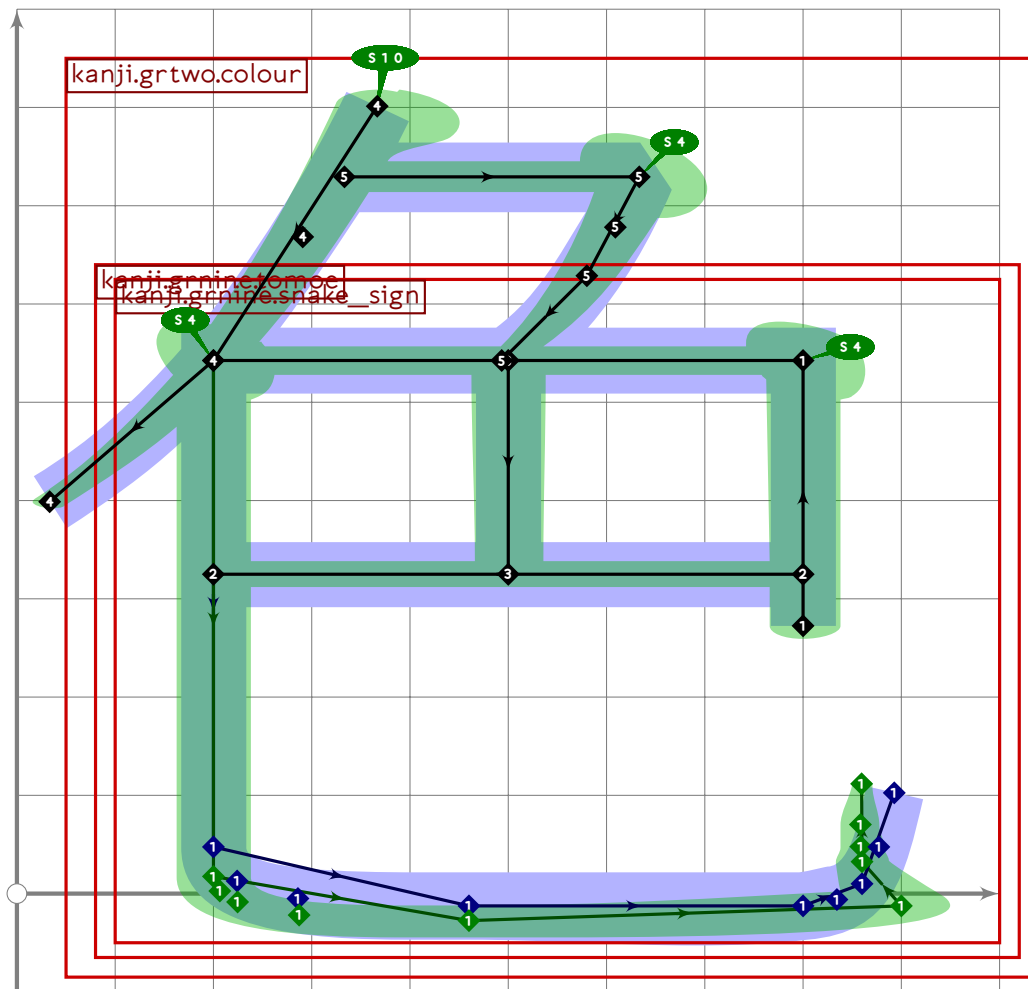
180
181 vardef kanji.grtwo.cloud =
182   push_pbox_toexpand("kanji.grtwo.cloud");
183   build_kanji.tb(300,50)
184     (kanji.toprad.rain)
185     (kanji.grnine.declaim);
186   expand_pbox;
187 enddef;

```



U+8272  
tsuku.uni8272

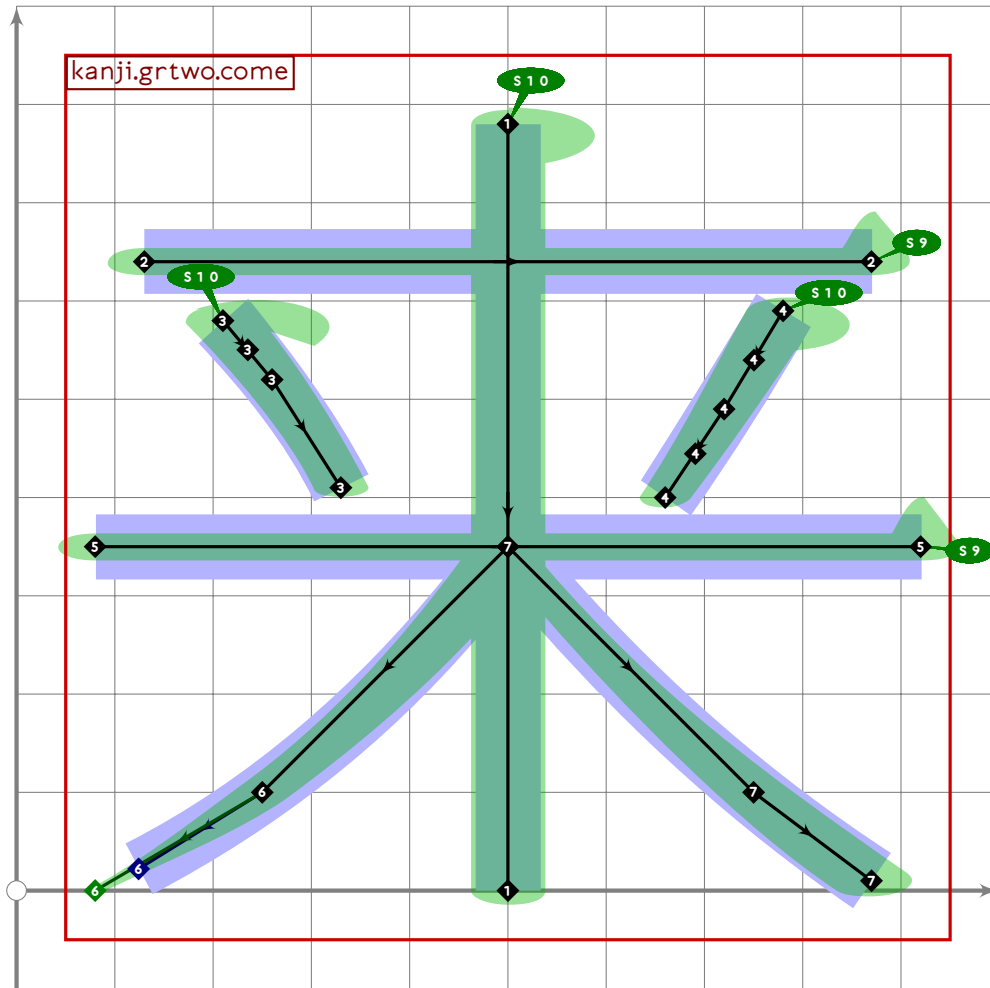
TWO



```

188
189 vardef kanji.grtwo.colour =
190   push_pbox_toexpand("kanji.grtwo.colour");
191   build_kanji.attach_fishhook(0.75)
192   (tsu_xform(identity shifted (50,0))(kanji.grnine.tomoe));
193   expand_pbox;
194 enddef;

```



TWO

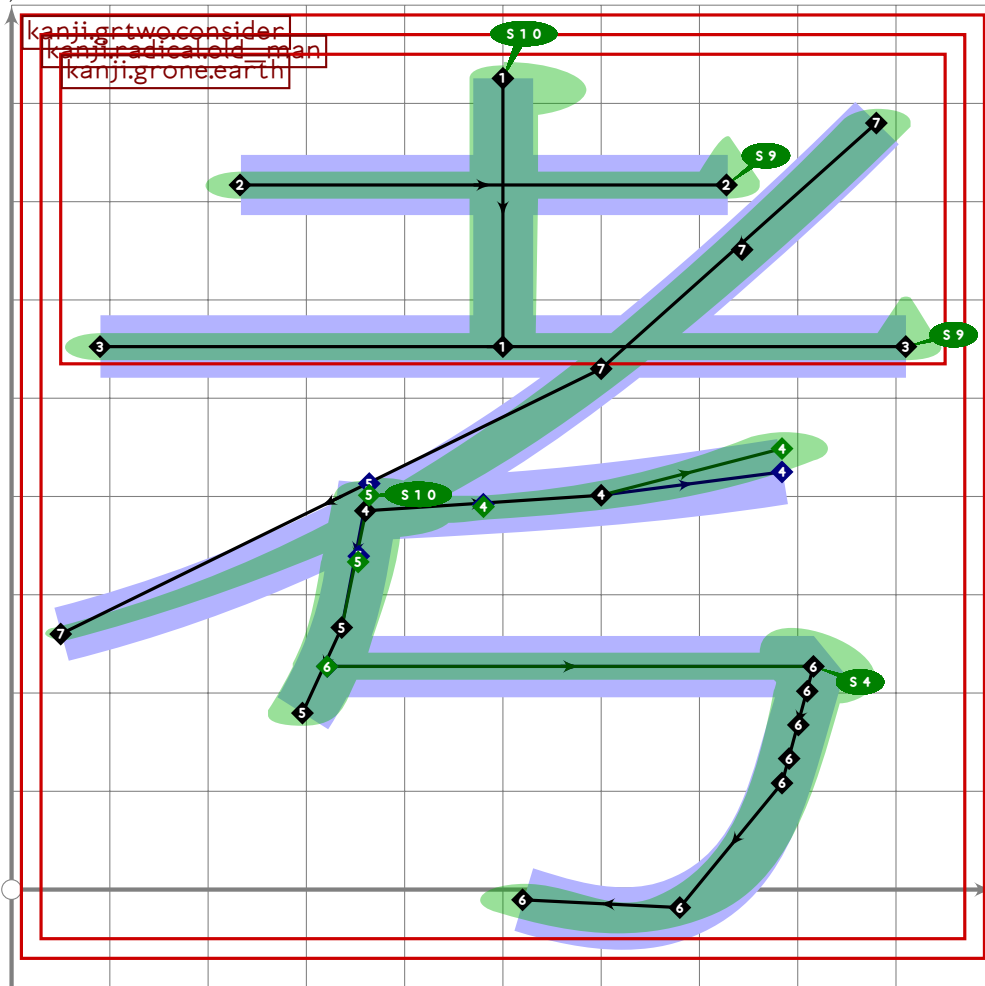
```

195
196 vardef kanji.grtwo.come =
197   push_pbox_toexpand("kanji.grtwo.come");
198   push_stroke((500,780)-(500,0),(1.6,1.6)-(1.6,1.6));
199   set_boserif(0,0,10);
200   push_stroke((130,640)-(870,640),(1.6,1.6)-(1.6,1.6));
201   set_boserif(0,1,9);
202   push_stroke((210,580)..tension 1.2..(260,520)..(330,410),
203     (1.6,1.6)-(1.5,1.5)-(1.3,1.3));
204   set_boserif(0,0,10);
205   push_stroke((780,590)..tension 1.2..(720,490)..(660,400),
206     (1.6,1.6)-(1.5,1.5)-(1.3,1.3));
207   set_boserif(0,0,10);
208   push_stroke((80,350)-(920,350),(1.6,1.6)-(1.6,1.6));
209   set_boserif(0,1,9);
210   push_stroke((500,350)..(250,100)..(80,0),
211     (1.6,1.6)..(1.3,1.3)..(0.9,0.9));
212   push_stroke((500,350)..(750,100)..(870,10),
213     (1.1,1.1)..(1.5,1.5)..(1.7,1.7));
214   for i=-6 upto 0: set_bosize(i,94); endfor;
215   expand_pbox;

```

TWO

216 endif;



217

218 vardef kanji.grtwo.consider =

219 push\_pbox\_toexpand("kanji.grtwo.consider");

220 kanji.radical.old\_man(

221 build\_kanji.sscale(xyscaled (0.8,1.5) shifted (60,220))

222 (push\_stroke((250,500)..tension 1.2..(550,520)..(780,550+30\*mincho),

223 (1.5,1.5)–(1.5,1.5)–(1.9,1.9));

224 push\_stroke((255,535-15\*mincho)..tension 1.2..(220,350)..(170,240),

225 (1.7,1.7)–(1.6,1.6)–(1.6,1.6));

226 set\_boserif(0,0,10);

227 push\_stroke((get\_stroke(0) intersectionpoint ((0,300)–(1000,300)))–

228 (820,300)..tension 1.7..(780,150)..(650,-10)..{curl 0.1}(450,0),

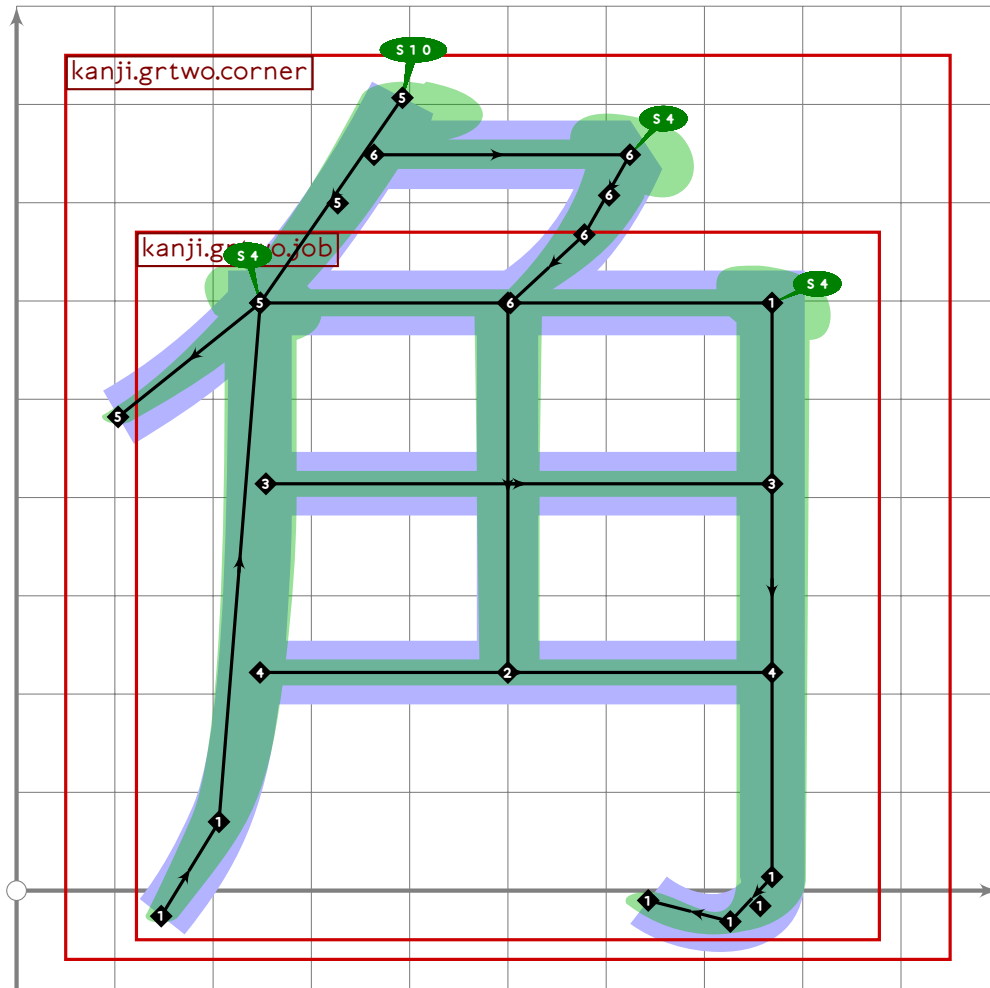
229 (1.6,1.6)–(1.6,1.6)–(1.5,1.5)–(1.7,1.7)–(1.8,1.8));

230 set\_botip(0,1,1);

231 set\_boserif(0,1,4));

232 expand\_pbox;

233 endif;



TWO

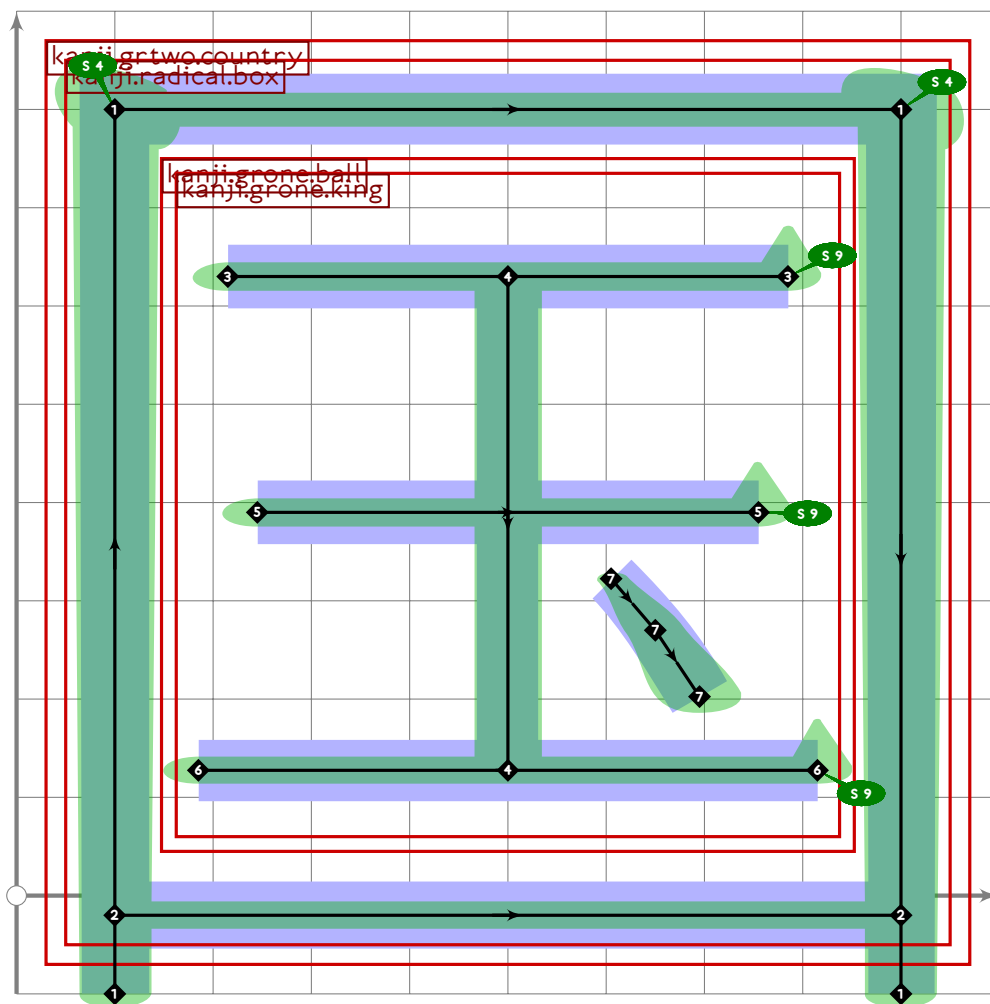
```

234
235 vardef kanji.grtwo.corner =
236   push_pbox_toexpand("kanji.grtwo.corner");
237   build_kanji.attach_fishhook(0.8)(
238     build_kanji.sscale(xscaled 0.84)(kanji.grtwo.job);
239     replace_stroke(-2)((500,760)-(500,290)));
240   expand_pbox;
241 enddef;

```

U+56FD  
tsuku.uni56FD

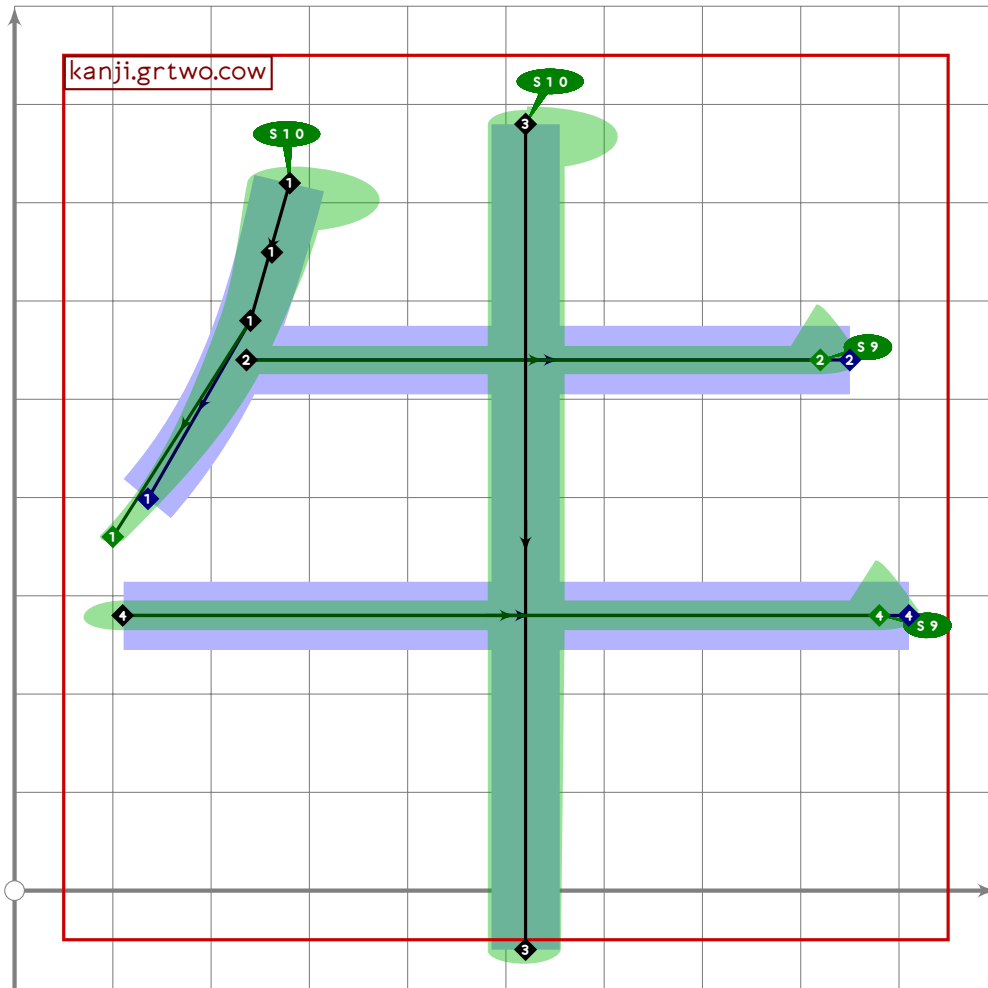
TWO



```

242
243 vardef kanji.grtwo.country =
244   push_pbox_toexpand("kanji.grtwo.country");
245   kanji.radical.box;
246   build_kanji.sscale(scaled 0.75)(kanji.grone.ball);
247   expand_pbox;
248 enddef;

```



TWO

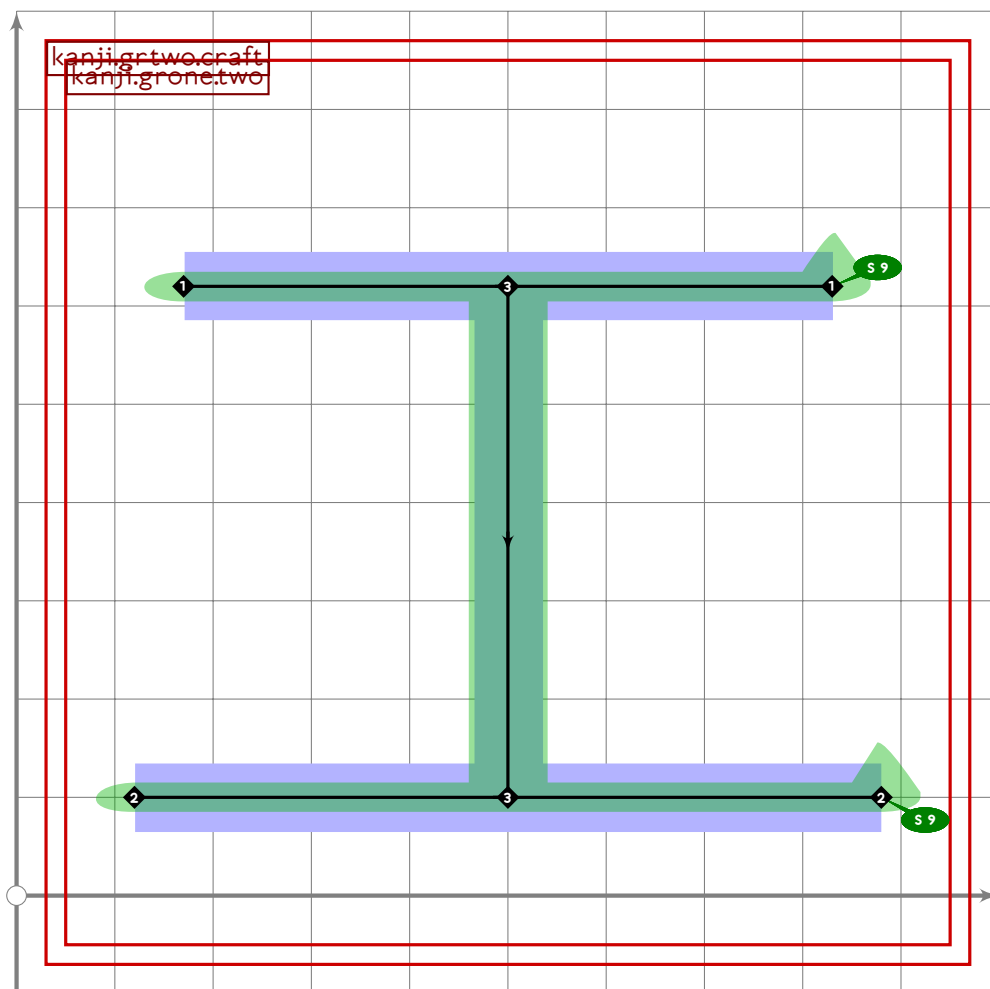
```

249
250 vardef kanji.grtwo.cow =
251   push_pbox_toexpand("kanji.grtwo.cow");
252   push_stroke((280,720)..tension 1.2..(240,580)..(100,360),
253     (1.7,1.7)-(1.4,1.4)-(0.9,0.9));
254   set_boserif(0,0,10);
255   push_stroke((((0,540)-(1000,540)) intersectionpoint
256     get_strokep(0))+(12,0))-(850-30*mincho,540),
257     (1.6,1.6)-(1.6,1.6));
258   set_boserif(0,1,9);
259   push_stroke((520,780)-(520,-60),(1.6,1.6)-(1.5,1.5));
260   set_boserif(0,0,10);
261   push_stroke((110,280)-(910-30*mincho,280),(1.6,1.6)-(1.6,1.6));
262   set_boserif(0,1,9);
263   expand_pbox;
264 enddef;

```

U+5DE5  
tsuku.uni5DE5

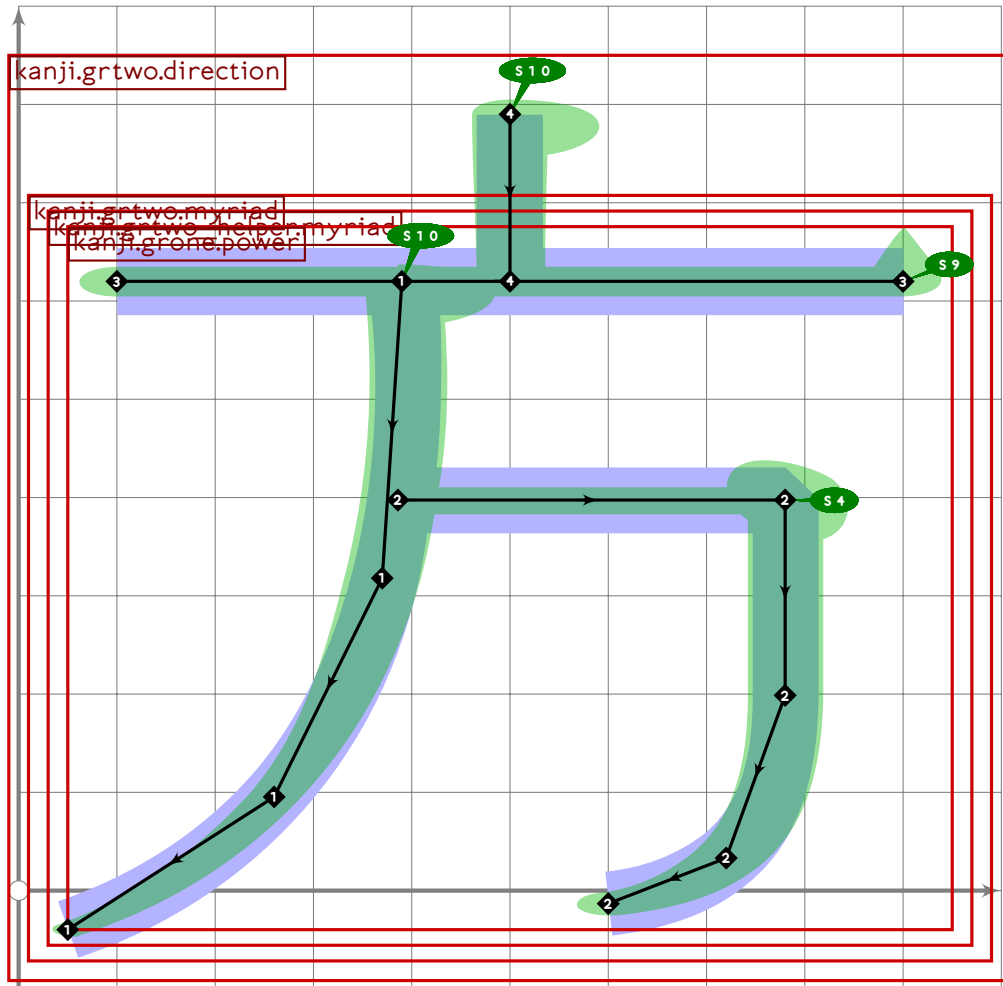
TWO



```

265
266 vardef kanji.grtwo.craft =
267   push_pbox_toexpand("kanji.grtwo.craft");
268   kanji.grone.two;
269   push_stroke((point 0.5 of get_stroke(-1))-(point 0.5 of get_stroke(0)),
270     (1.6,1.6)-(1.6,1.6));
271   expand_pbox;
272 enddef;

```



TWO

```

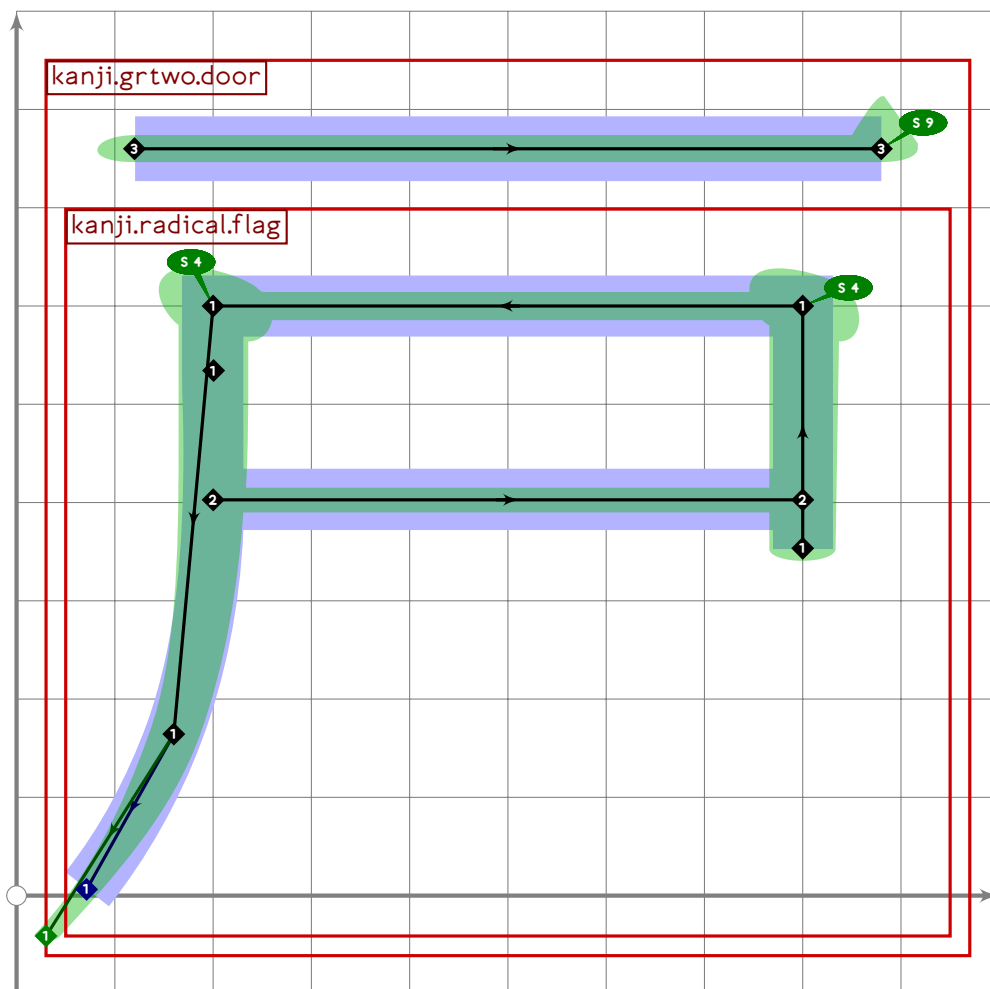
273
274 vardef kanji.grtwo.direction =
275   push_pbox_toexpand("kanji.grtwo.direction");
276   build_kanji.level(
277     tsu_xform(identity yscaled (620/780))
278     (kanji.grtwo.myriad);
279     push_stroke((500,790)..(500,620),(1.6,1.6)-(1.5,1.5));
280     set_boserif(0,0,10);
281   );
282   expand_pbox;
283 enddef;

```



U+6238  
tsuku.uni6238

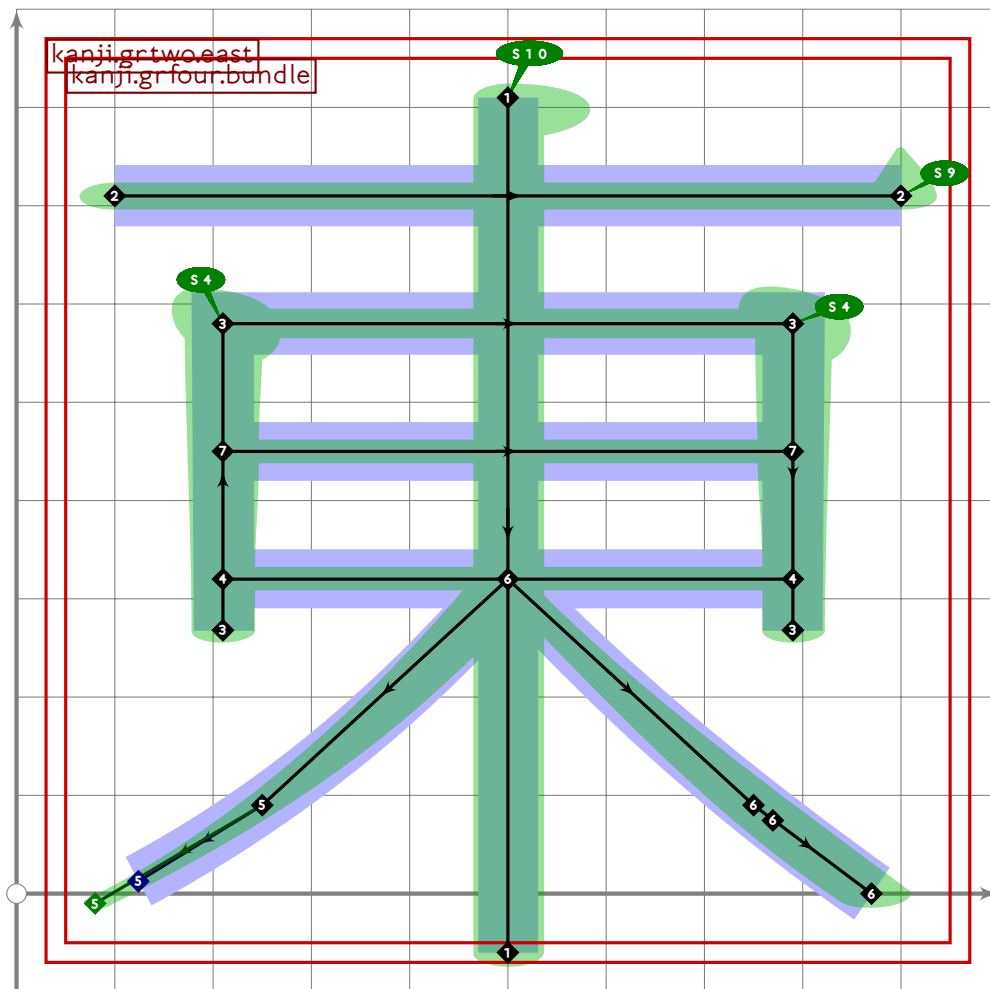
TWO



```

284
285 vardef kanji.grtwo.door =
286   push_pbox_toexpand("kanji.grtwo.door");
287   tsu_xform(identity yscaled (600/730))(kanji.radical.flag);
288   push_stroke((120,760)-(880,760),(1.6,1.6));
289   set_boserif(0,1,9);
290   set_bosize(0,95);
291   expand_pbox;
292 enddef;

```



TWO

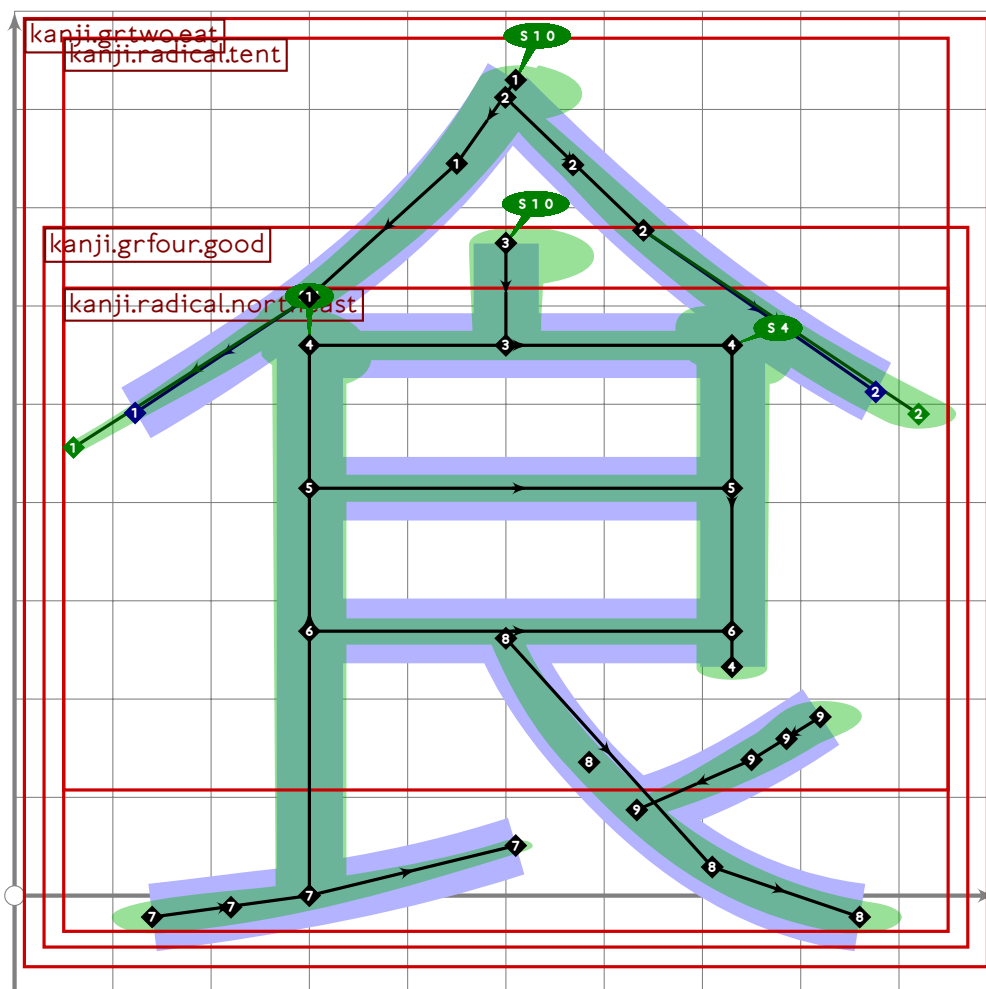
```

293
294 vardef kanji.grtwo.east =
295   push_pbox_toexpand("kanji.grtwo.east");
296   kanji.grfour.bundle;
297   push_stroke((210,450)-(790,450),(1.5,1.5)-(1.5,1.5));
298   set_bosize(0,get_bosize(-1));
299   expand_pbox;
300 enddef;

```

U+98DF  
tsuku.uni98DF

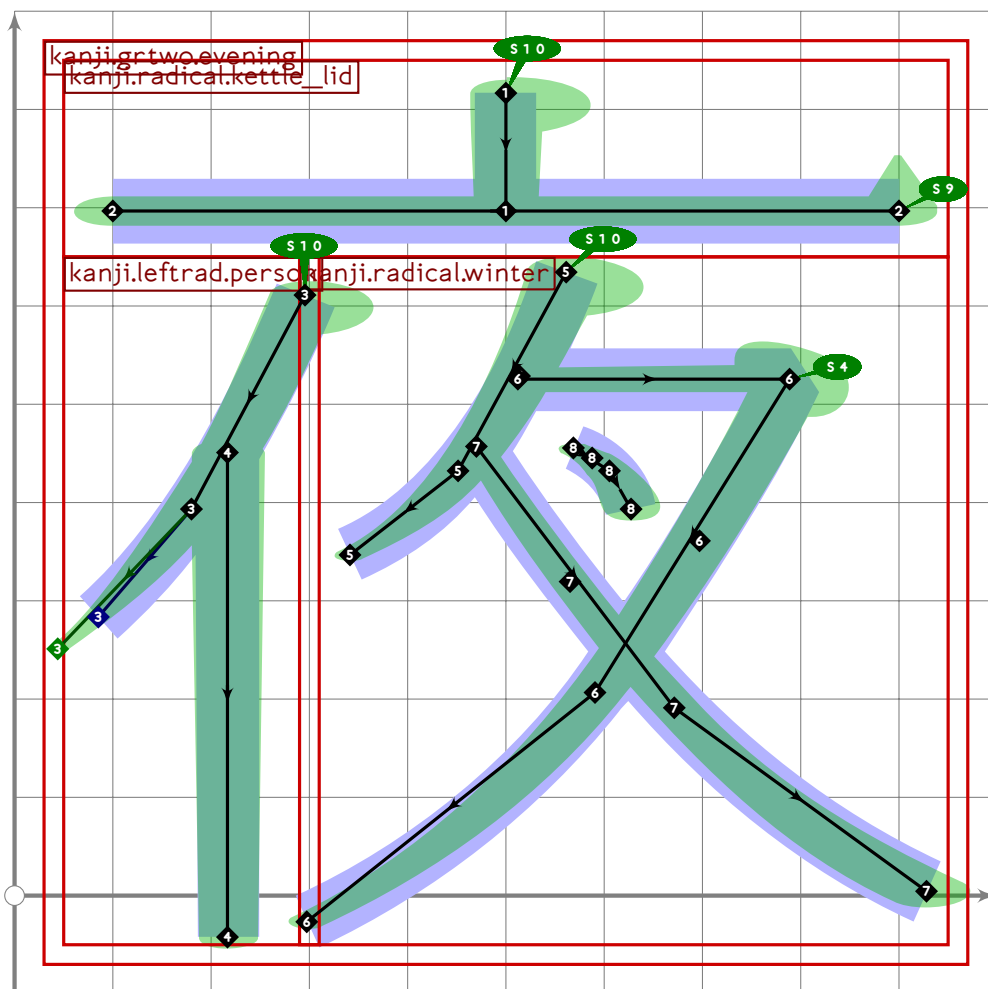
TWO



```

301
302 vardef kanji.grtwo.eat =
303   push_pbox_toexpand("kanji.grtwo.eat");
304   build_kanji.level(
305     tsu_xform(identity yscaled 0.85 shifted (0,150))
306     (kanji.radical.tent);
307   pop_stroke;
308   tsu_xform(identity yscaled 0.8)(kanji.grfour.good));
309   expand_pbox;
310 enddef;

```



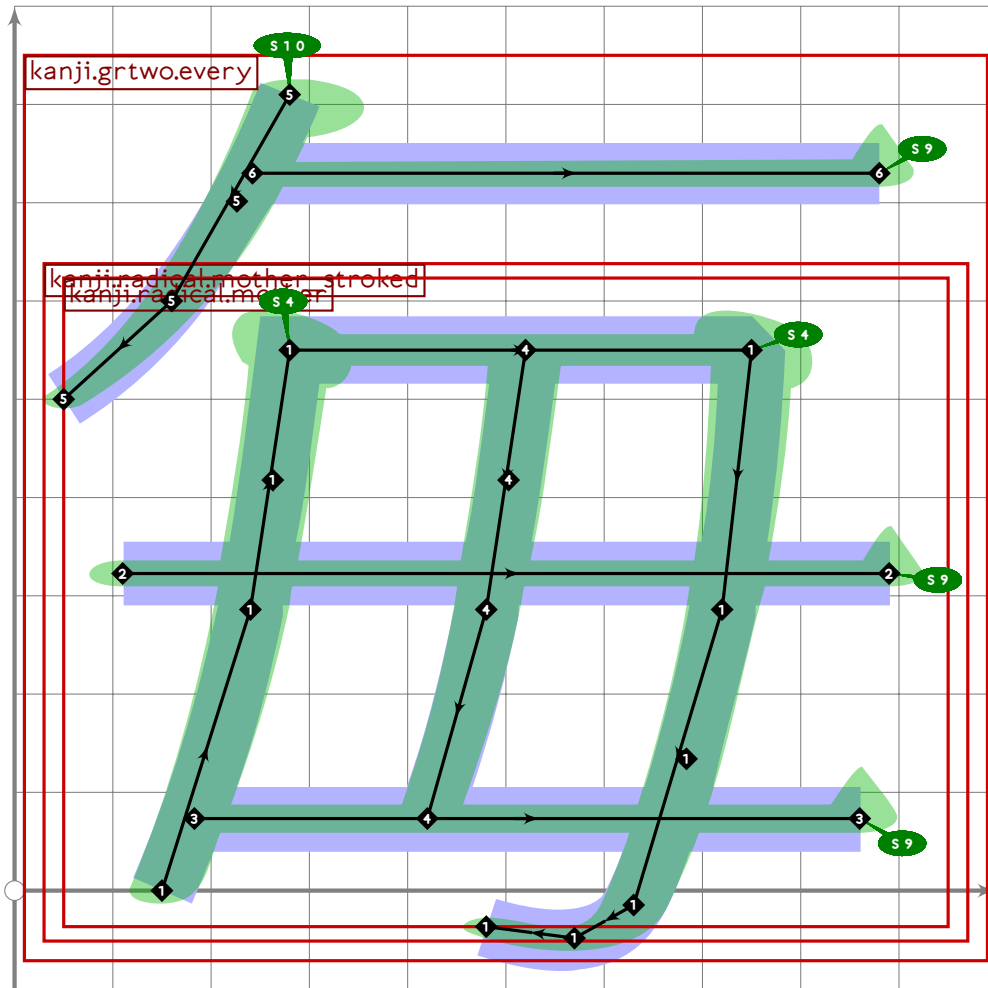
TWO

```

311
312 vardef kanji.grtwo.evening =
313   push_pbox_toexpand("kanji.grtwo.evening");
314   build_kanji.level(build_kanji.tb(650,0)
315     (kanji.radical.kettle_lid)
316     (build_kanji.lr(300,20)
317       (kanji.leftrad.person)
318       (kanji.radical.winter;
319         push_stroke(
320           (430,600)..tension 1.2..(480,570)..(510,520),
321           (1,1,1)-(1,4,1)-(1,6,1,6)))));
322   set_bosize(0,73);
323   expand_pbox;
324 enddef;

```

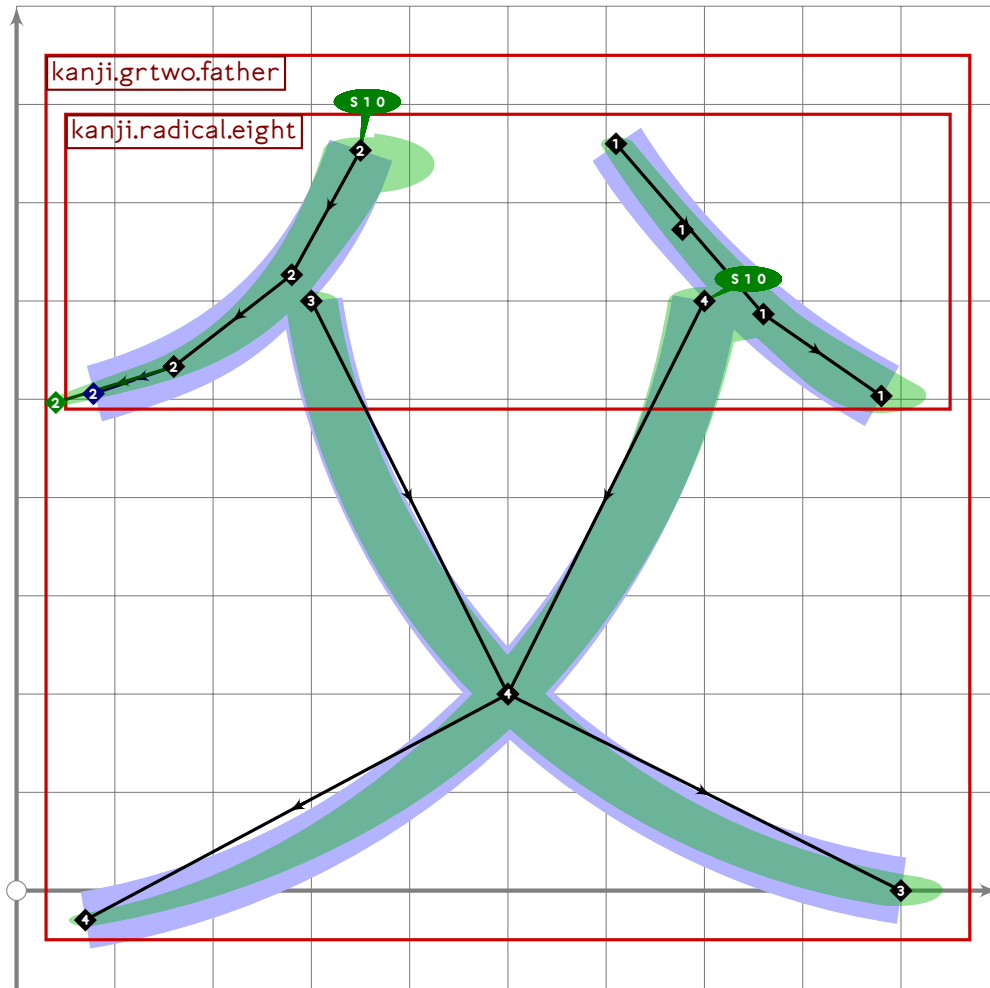
TWO



```

325
326 vardef kanji.grtwo.every =
327   push_pbox_toexpand("kanji.grtwo.every");
328   tsu_xform(identity yscaled (550/750))
329   (kanji.radical.mother_stroked);
330   push_stroke((280,810)..tension 1.2..(160,600)..(50,500),
331     (1.7,1.7)-(1.5,1.5)-(1.2,1.2));
332   set_boserif(0,0,10);
333   set_bosize(0,90);
334   push_stroke((get_strokep(0) intersectionpoint ((0,730)-(1000,730)))-(
335     (880,730),
336     (1.5,1.5)-(1.6,1.6));
337   set_boserif(0,1,9);
338   set_bosize(0,90);
339   expand_pbox;
340 enddef;

```



TWO

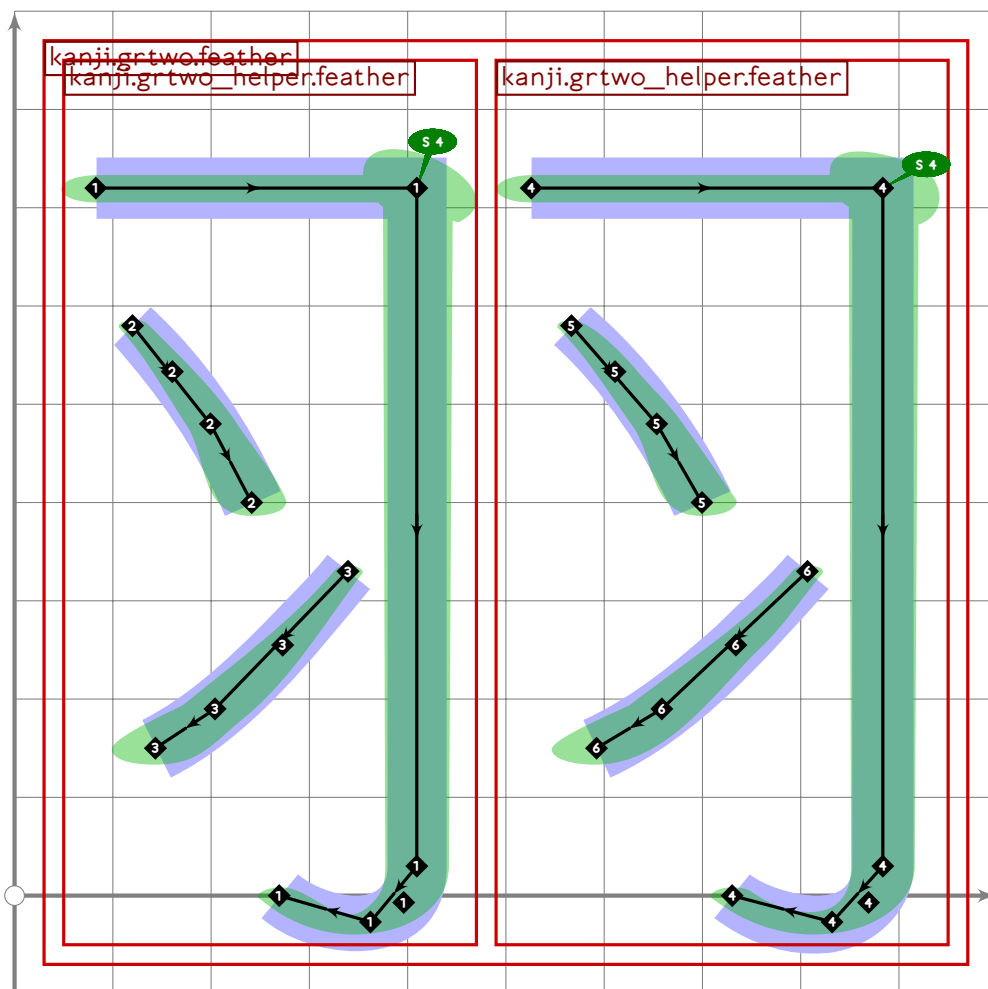
```

341
342 vardef kanji.grtwo.father =
343   push_pbox_toexpand("kanji.grtwo.father");
344   build_kanji.level(build_kanji.tb(700,300)
345     (tsu_xform(identity shifted (0,-180))(kanji.radical.eight))
346     (push_stroke((300,600)..(500,200)..(900,0),
347       (1.3,1.3)-(1.5,1.5)-(1.7,1.7));
348     push_stroke((700,600)..(500,200)..(70,-30),
349       (1.6,1.6)-(1.5,1.5)-(1,1));
350     set_boserif(0,0,10);
351   ));
352   expand_pbox;
353 enddef;

```

U+7FBD  
tsuku.uni7FBD

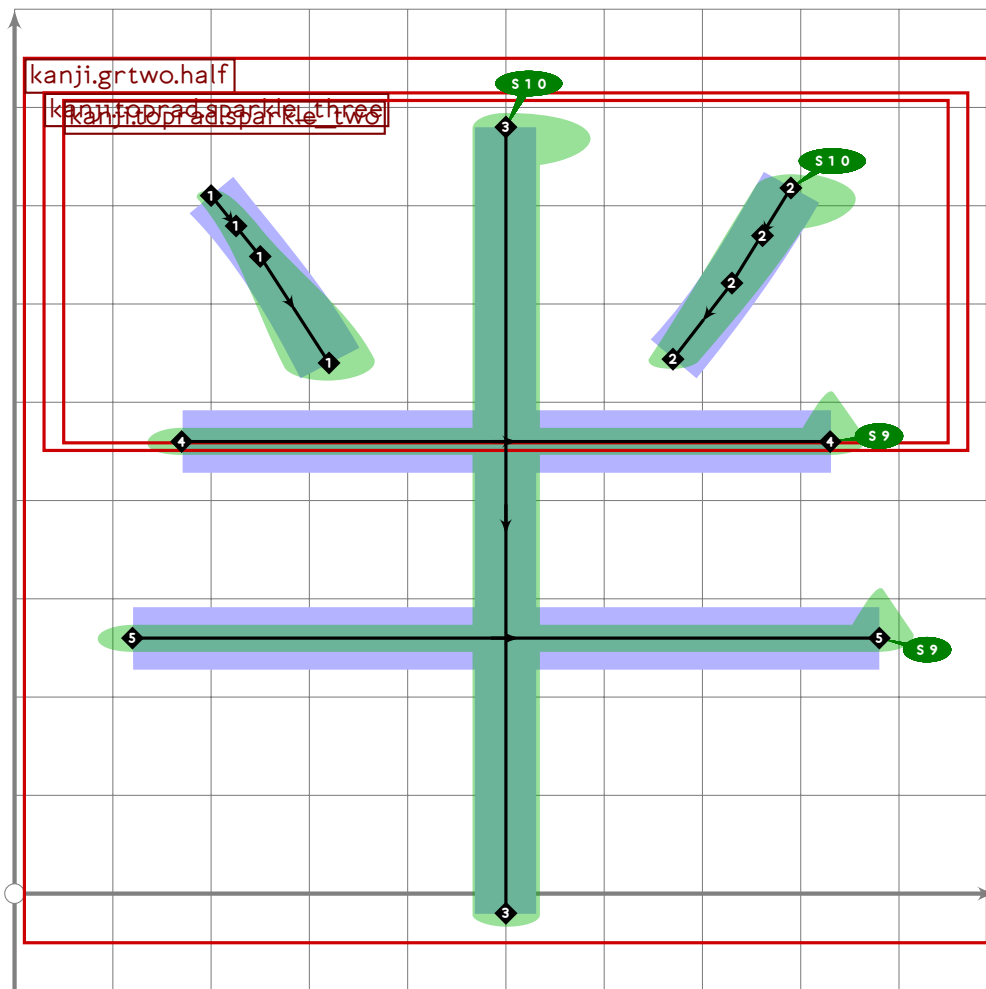
TWO



```

354
355 vardef kanji.grtwo.feather =
356   push_pbox_toexpand("kanji.grtwo.feather");
357   build_kanji.lr(480,20)
358     (kanji.grtwo_helper.feather)
359     (kanji.grtwo_helper.feather);
360   expand_pbox;
361 enddef;

```



TWO

```

362
363 vardef kanji.grtwo.half =
364   push_pbox_toexpand("kanji.grtwo.half");
365   build_kanji.level(begingroup
366     save saved_path,mytr;
367     path saved_path;
368     transform mytr;
369     xpart mytr=xypart mytr=yxpart mytr=0;
370     xxpart mytr=1;
371     (500,160) transformed mytr=(500,540);
372     (500,780) transformed mytr=(500,780);
373     tsu_xform(mytr)
374     (kanji.toprad.sparkle_three;saved_path:=get_strokep(0));
375     replace_strokep(0)(saved_path);
376     push_stroke((170,460)-(830,460),
377       (1.6,1.6)-(1.6,1.6));
378     set_boserif(0,1,9);
379     push_stroke((120,260)-(880,260),
380       (1.6,1.6)-(1.6,1.6));
381     set_boserif(0,1,9);
382   endgroup);

```



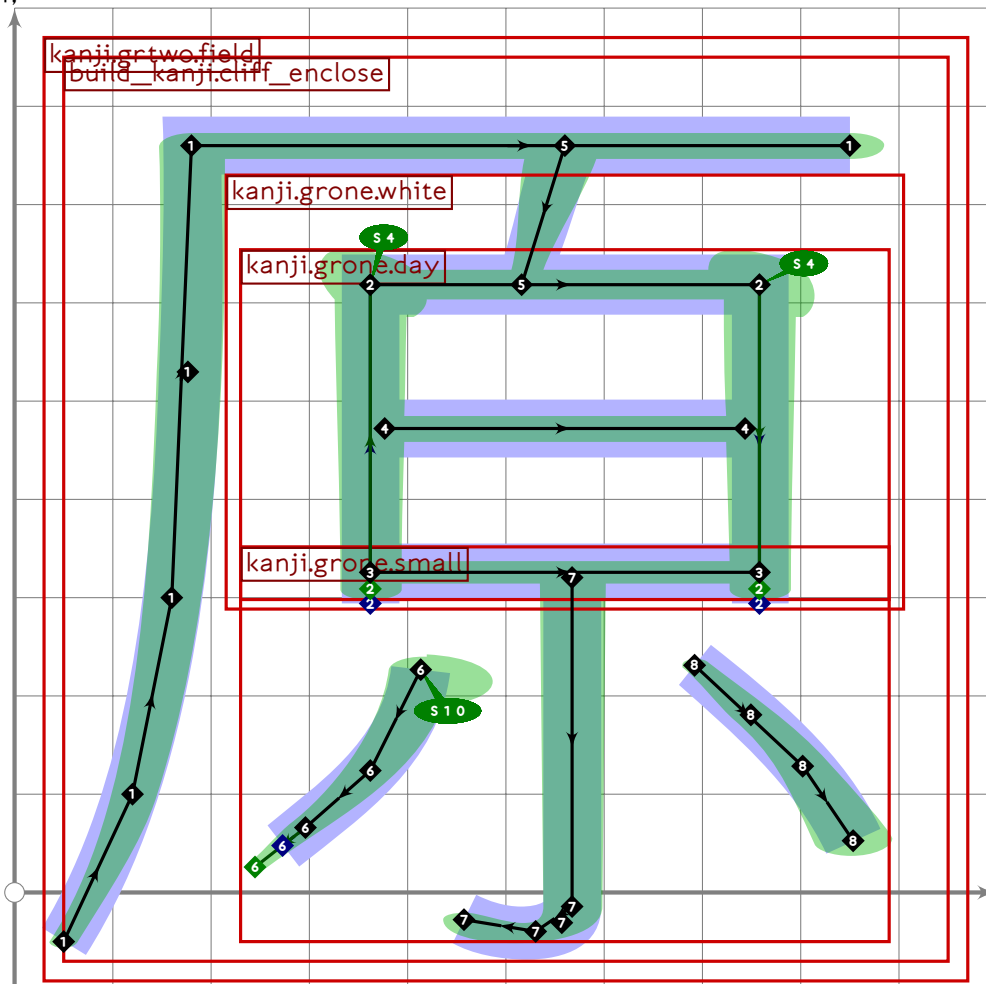
U+539F  
tsuku.uni539F

TWO

```

383 expand_pbox;
384 enddef;
385
386 vardef kanji.grtwo_helper.feather =
387   push_pbox_toexpand("kanji.grtwo_helper.feather");
388   push_stroke((60,720)-(410,720),(1.6,1.6)-(1.6,1.6));
389   build_kanji.add_jtail(0);
390   replace_strokep(0)(oldp xscaled 2);
391   set_botip(0,1,1);
392   set_boserif(0,1,4);
393   push_stroke((200,580)..tension 1.2..(370,480)..(460,400),
394     (1,1)-(1.3,1.3)-(1.6,1.6));
395   push_stroke((670,330)..tension 1.2..(380,190)..(250,150),
396     (1,1)-(1.6,1.6)-(1.9,1.9));
397   expand_pbox;
398 enddef;

```



```

399
400 vardef kanji.grtwo.field =
401   push_pbox_toexpand("kanji.grtwo.field");
402   build_kanji.level(build_kanji.cliff_enclose(
403     build_kanji.tb(380,67)

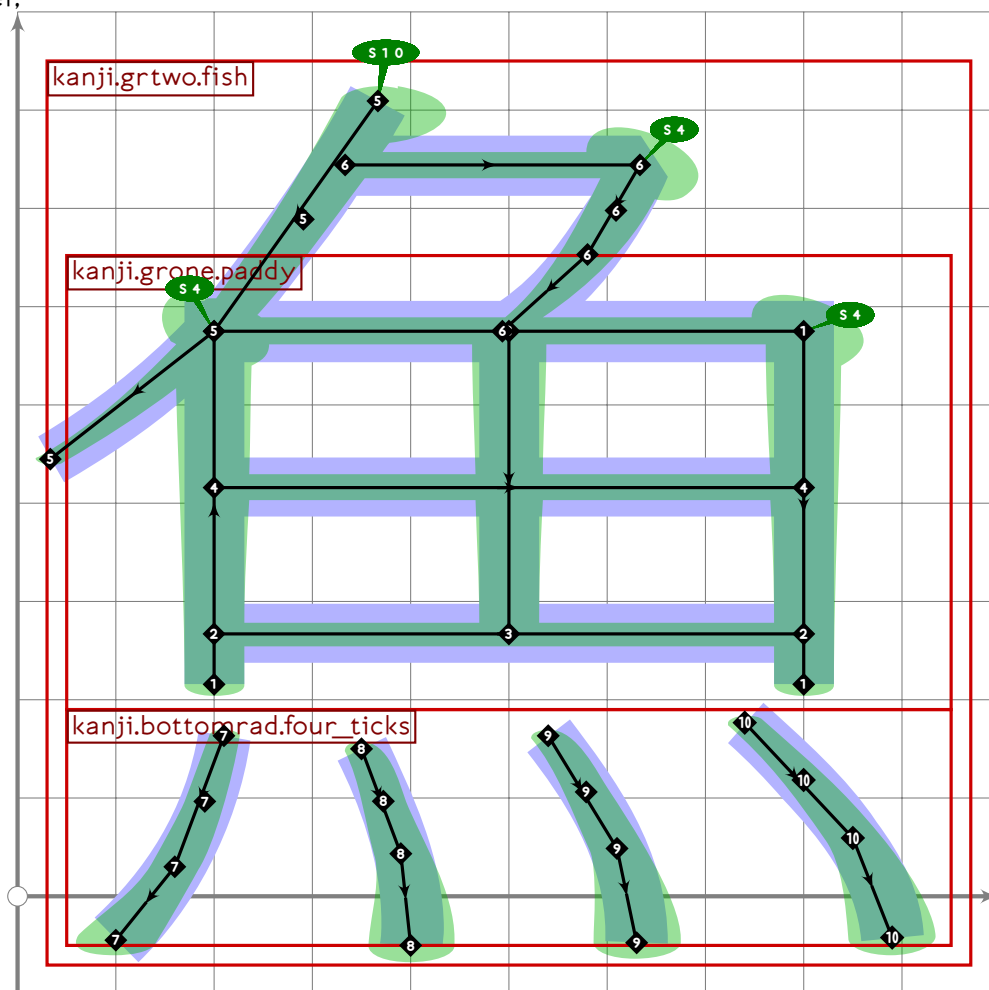
```

```

404     (kanji.grone.white)
405     (kanji.grone.small)));
406 begingroup
407     save myxf;
408     transform myxf;
409     point 2 of get_strokep(-3) transformed myxf=point 2 of get_strokep(-3);
410     ypart (point 0 of get_strokep(-3) transformed myxf)=760;
411     xpart myxf=yxpart myxf=0;
412     xxpart myxf=1;
413     replace_strokep(-3)(oldp transformed myxf);
414 endgroup;
415 set_boserif(-3,0,whatever);
416 set_boserif(-1,0,whatever);
417 expand_pbox;
418 enddef;

```

TWO



```

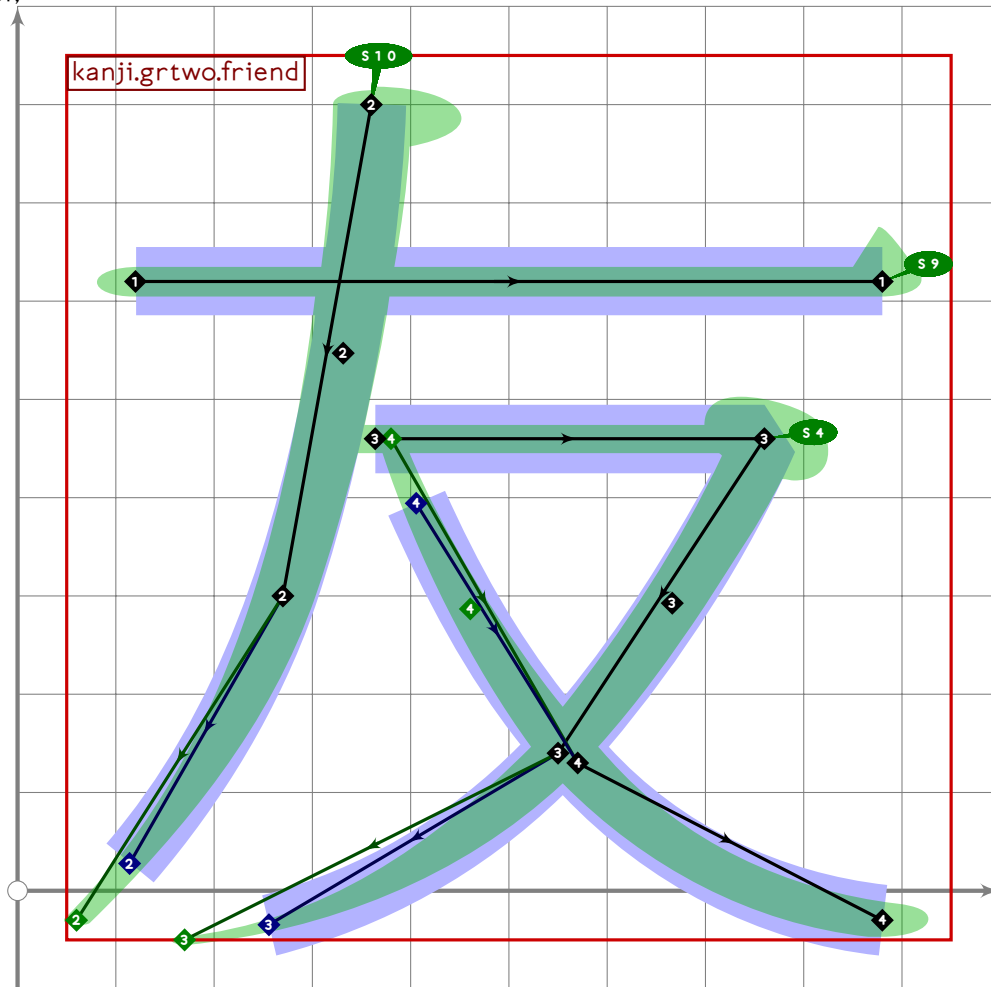
419
420 vardef kanji.grtwo.fish =
421     push_pbox_toexpand("kanji.grtwo.fish");
422     build_kanji.level(build_kanji.tb(190,0)
423         (build_kanji.attach_fishhook(0.7)(kanji.grone.paddy))
424         (kanji.bottomrad.four_ticks));

```

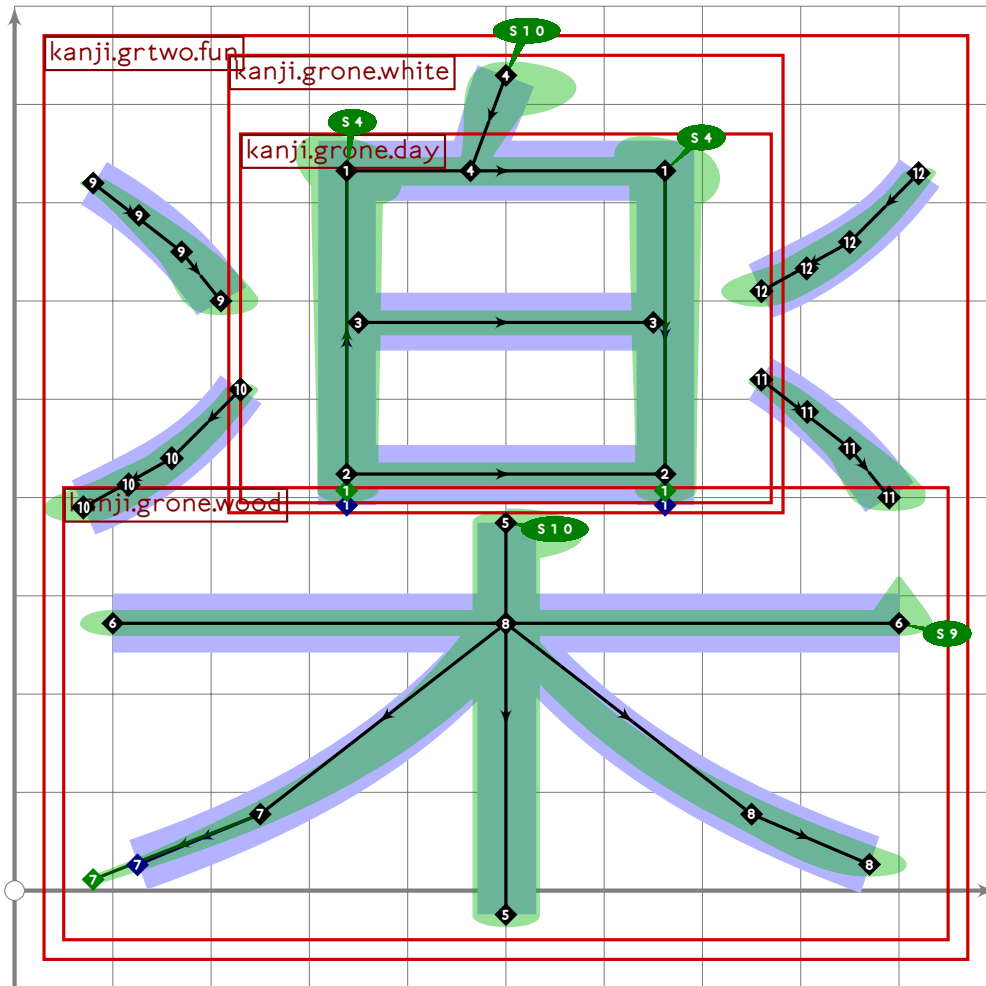
U+53CB  
tsuku.uni53CB

```
425 expand_pbox;
426 enddef;
```

TWO



```
427
428 vardef kanji.grtwo.friend =
429   push_pbox_toexpand("kanji.grtwo.friend");
430   build_kanji.lean_to((360,-30));
431   push_stroke(
432     ((50,0)+(get_stroke(0) intersectionpoint ((0,460)-(1000,460))))-
433     (760,460)..tension 1.2..(550,140)..(170,-50),
434     (1.6,1.6)-(1.5,1.5)-(1.4,1.4)-(0.9,0.9));
435   set_botip(0,1,0);
436   set_boserif(0,1,4);
437   push_stroke((380,460)..tension 1.2..(570,130)..(880,-30),
438     (0.9,0.9)-(1.4,1.4)-(1.8,1.8));
439   expand_pbox;
440 enddef;
```



TWO

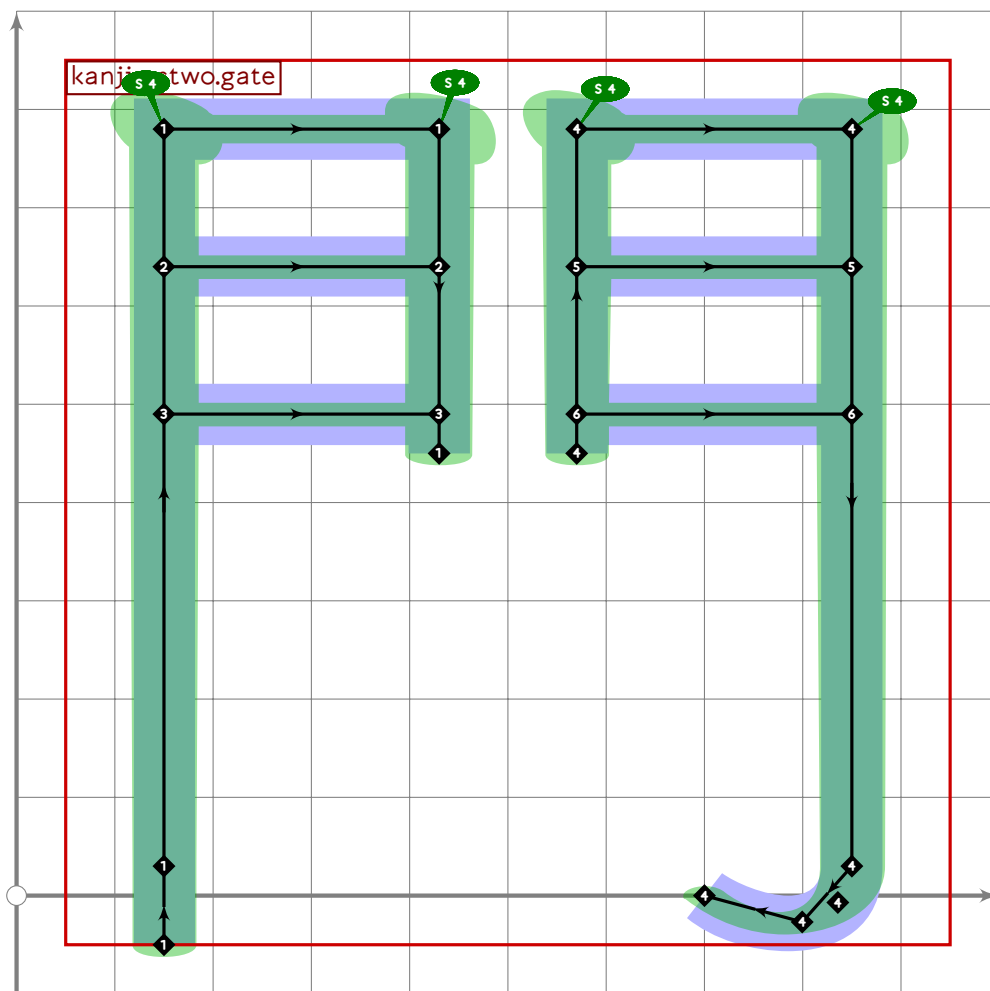
```

441
442 vardef kanji.grtwo.fun =
443   push_pbox_toexpand("kanji.grtwo.fun");
444   build_kanji.level(
445     build_kanji.tb(400,20)
446     (build_kanji.sscale(xscaled 0.6)(kanji.grone.white))
447     (kanji.grone.wood));
448   push_stroke((80,720)..tension 1.2..(170,650)..(210,600),
449     (1,1)-(1.5,1.5)-(1.8,1.8));
450   set_bosize(0,80);
451   push_stroke((230,510)..(160,440)..tension 1.2..(70,390),
452     (1,1,1)-(1.4,1.4)-(1.9,1.9));
453   set_bosize(0,80);
454   push_stroke(get_stroke(-1) shifted ((760,520)-point 0 of get_stroke(-1)),
455     get_stroke(-1));
456   set_bosize(0,80);
457   push_stroke(get_stroke(-1) shifted ((760,610)-point 2 of get_stroke(-1)),
458     get_stroke(-1));
459   set_bosize(0,80);
460   expand_pbox;
461 enddef;

```

U+9580  
tsuku.uni9580

TWO



```

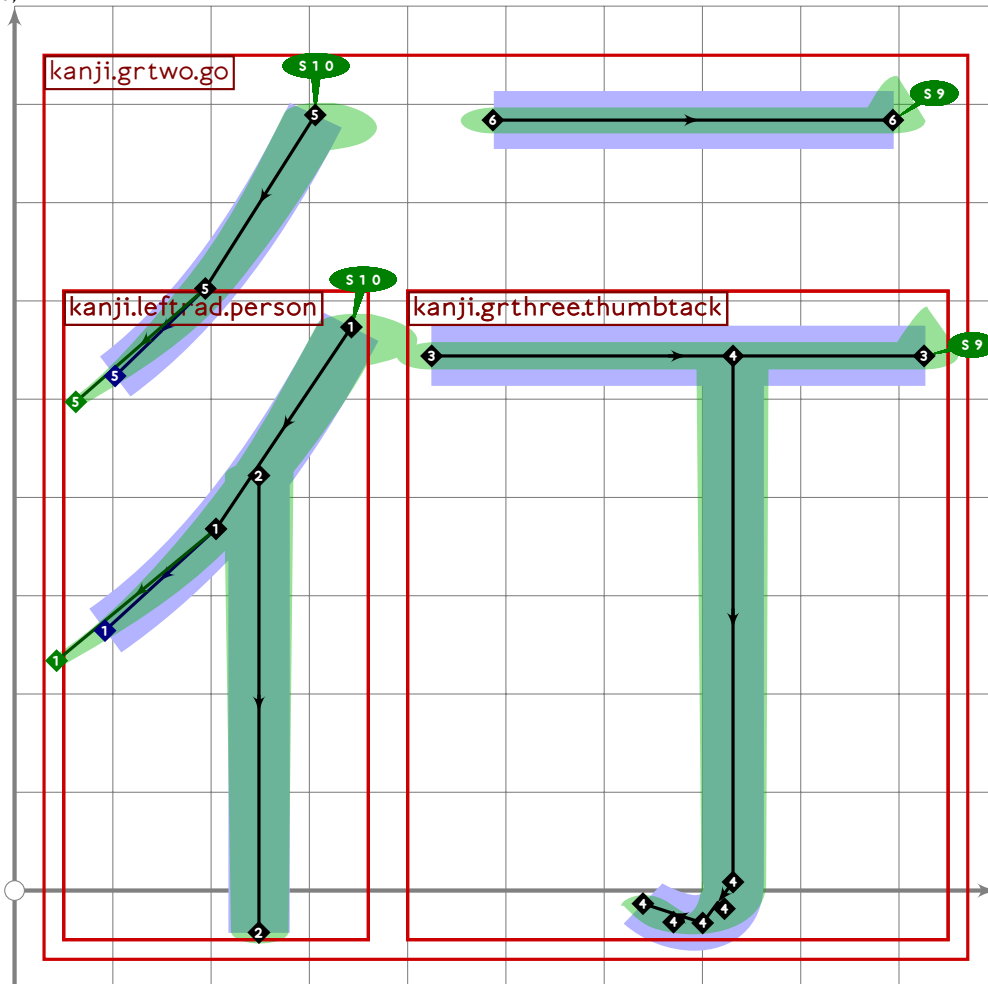
462
463 vardef kanji.grtwo.gate =
464   push_pbox_toexpand("kanji.grtwo.gate");
465   push_stroke((150,-50)-(150,30)-(150,780)-(430,780)-(430,450),
466     (1.5,1.5)-(1.5,1.5)-(1.6,1.6)-(1.6,1.6)-(1.5,1.5));
467   set_botip(0,2,1);
468   set_botip(0,3,1);
469   set_boserif(0,2,4);
470   set_boserif(0,3,4);
471   push_stroke((150,640)-(430,640),
472     (1.5,1.5)-(1.5,1.5));
473   push_stroke((150,490)-(430,490),
474     (1.5,1.5)-(1.5,1.5));
475   push_stroke((570,450)-(570,780)-(850,780),
476     (1.5,1.5)-(1.6,1.6)-(1.6,1.6));
477   build_kanji.add_jtail(0);
478   set_botip(0,1,1);
479   set_botip(0,2,1);
480   set_boserif(0,1,4);
481   set_boserif(0,2,4);
482   push_stroke((570,640)-(850,640),

```

```

483 (1.5,1.5)-(1.5,1.5));
484 push_stroke((570,490)-(850,490),
485 (1.5,1.5)-(1.5,1.5));
486 for i=-5 upto 0: set_bosize(i,90); endfor;
487 expand_pbox;
488 enddef;

```



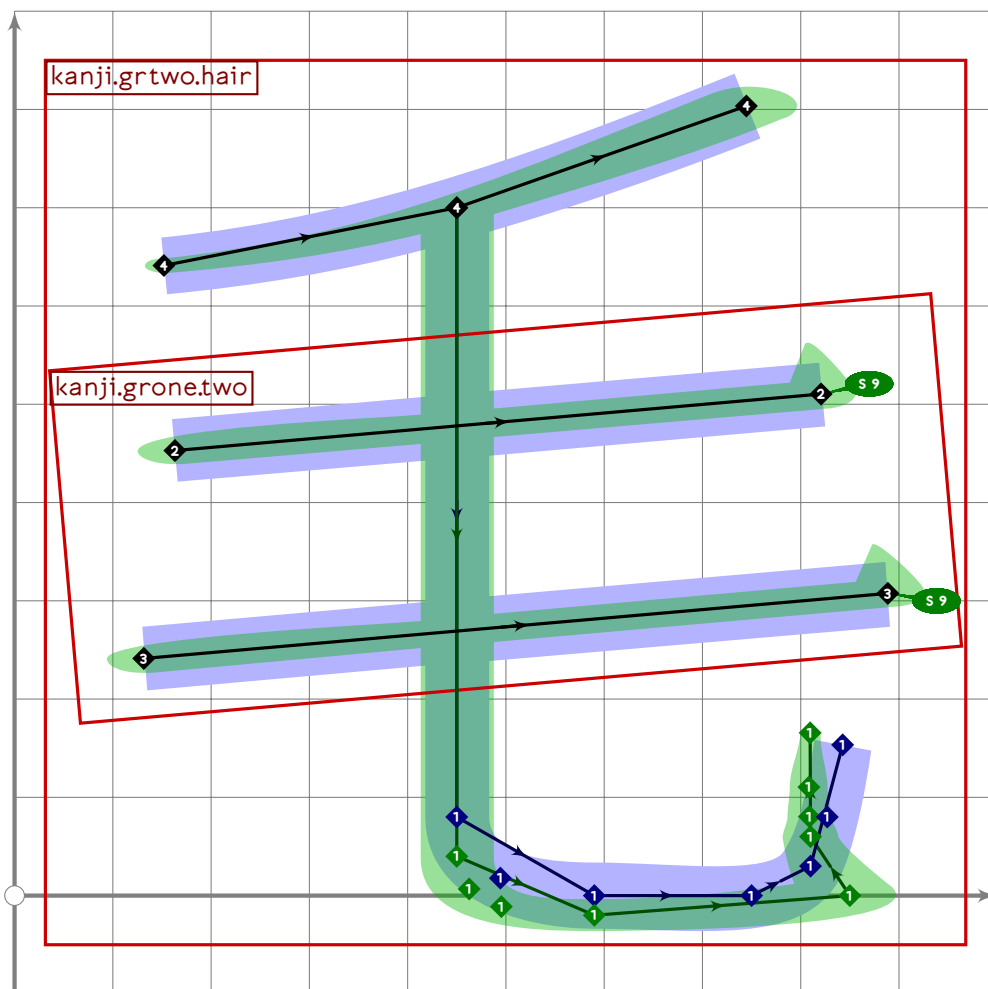
```

489
490 vardef kanji.grtwo.go =
491   push_pbox_toexpand("kanji.grtwo.go");
492   build_kanji.harmonic(240,0.86,50)
493     (build_kanji.level(build_kanji.lr(380,-40)
494       (kanji.leftrad.person)
495       (kanji.grthree.thumbtack)));
496   replace_stroke(-4)(oldp shifted (50,0));
497   expand_pbox;
498 enddef;

```

TWO

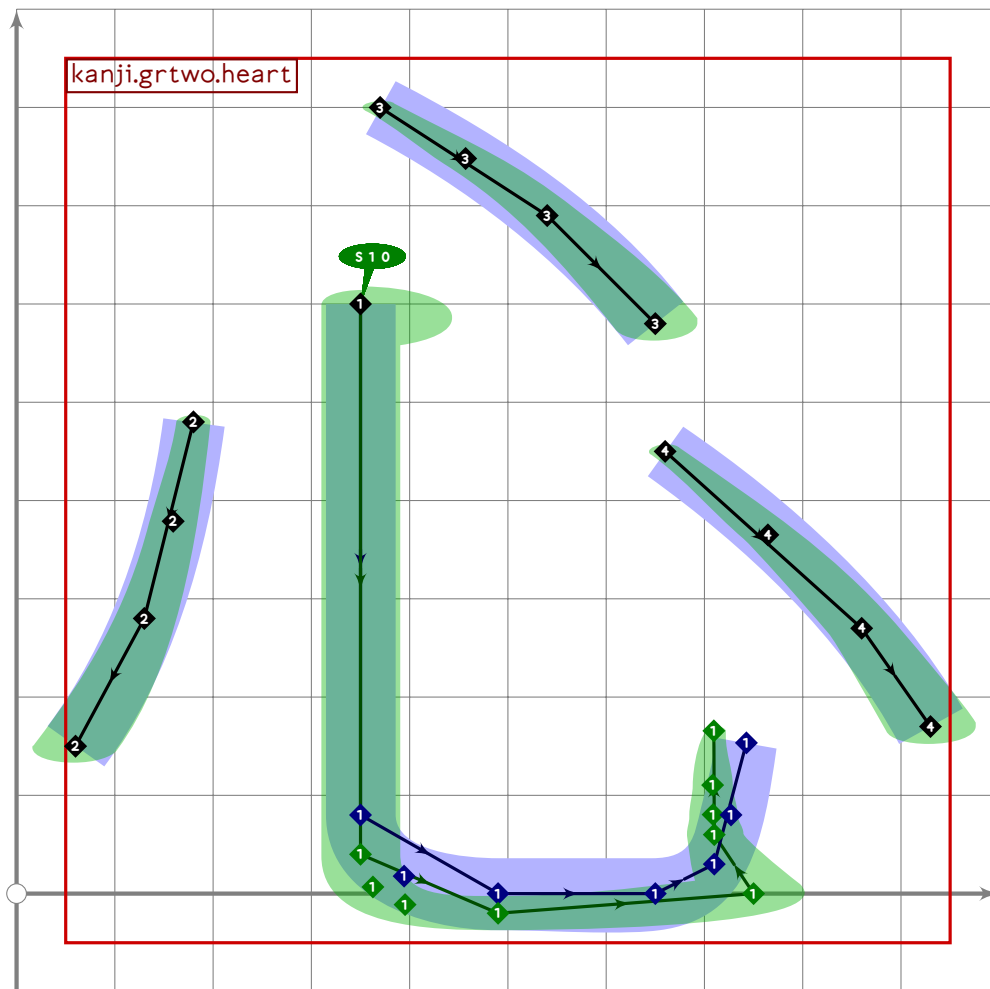
TWO



```

499
500 vardef kanji.grtwo.hair =
501   push_pbox_toexpand("kanji.grtwo.hair");
502   build_kanji.level(build_kanji.add_beret(
503     push_stroke((450,700),(1.6,1.6));
504     build_kanji.add_ltail(0);
505     build_kanji.sscale(yscaled 0.4 rotated 5)(kanji.grone.two)));
506   expand_pbox;
507 enddef;

```



TWO

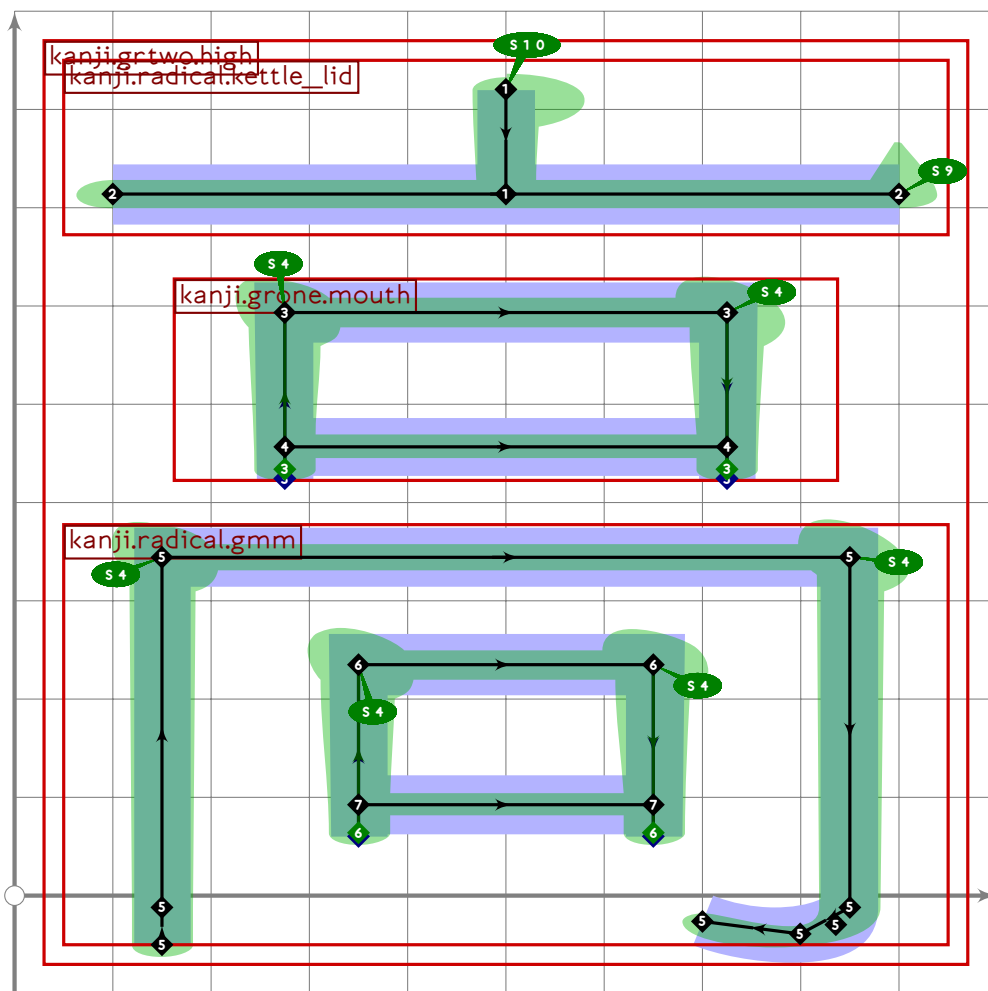
```

508
509 vardef kanji.grtwo.heart =
510   push_pbox_toexpand("kanji.grtwo.heart");
511   tsu_xform(identity shifted (-100,0))
512   (push_stroke((450,600),(1.6,1.6));
513     build_kanji.add_ltail(0));
514   set_boserif(0,0,10);
515   push_stroke((180,480)..tension 1.2..(130,280)..(60,150),
516     (1,1)-(1.4,1.4)-(1.7,1.7));
517   push_stroke((370,800)..tension 1.2..(540,690)..(650,580),
518     (1,1)-(1.4,1.4)-(1.7,1.7));
519   push_stroke((660,450)..tension 1.2..(860,270)..(930,170),
520     (1,1)-(1.5,1.5)-(1.8,1.8));
521   expand_pbox;
522 enddef;

```



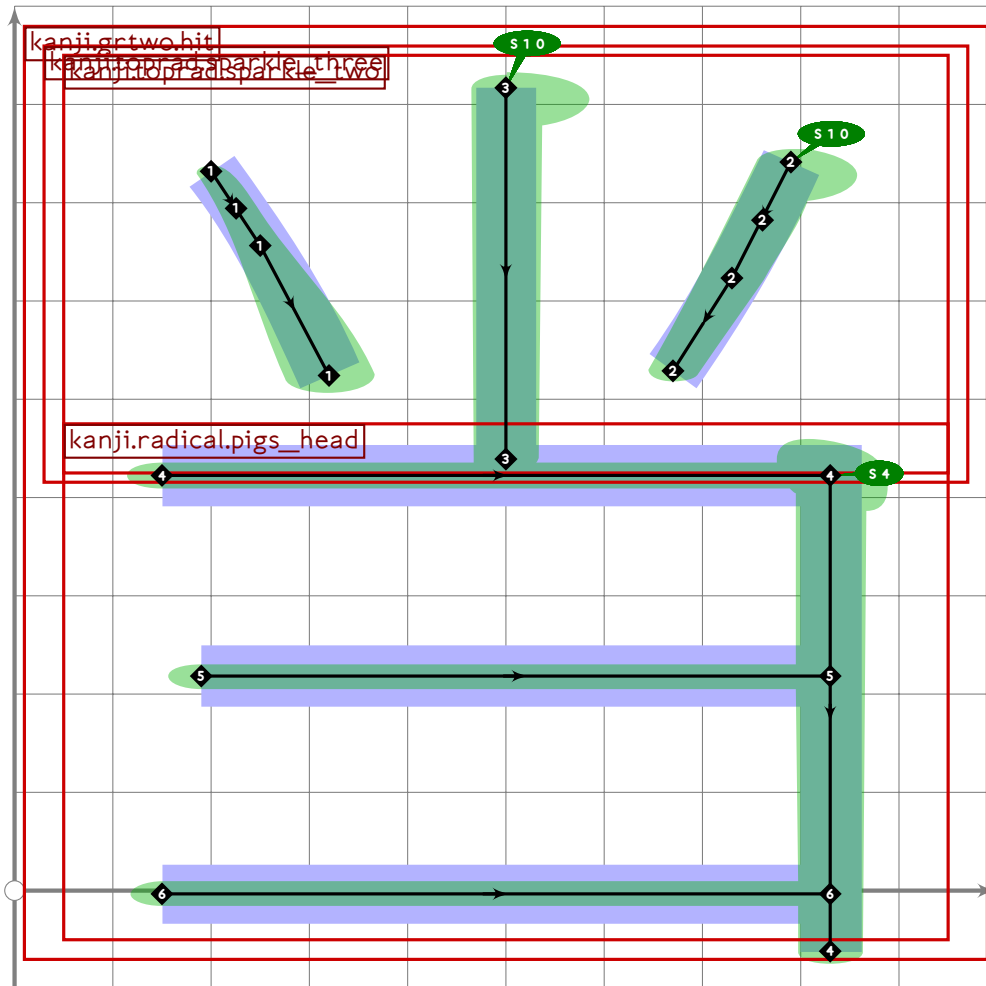
TWO



```

523
524 vardef kanji.grtwo.high =
525   push_pbox_toexpand("kanji.grtwo.high");
526   build_kanji.level(build_kanji.tcb(650,-45)(400,-45)
527     (kanji.radical.kettle_lid)
528     (build_kanji.sscale(xscaled 0.75)(kanji.grone.mouth))
529     (kanji.radical.gmm;
530       build_kanji.box((350,550),(650,250)))));
531   expand_pbox;
532 enddef;

```



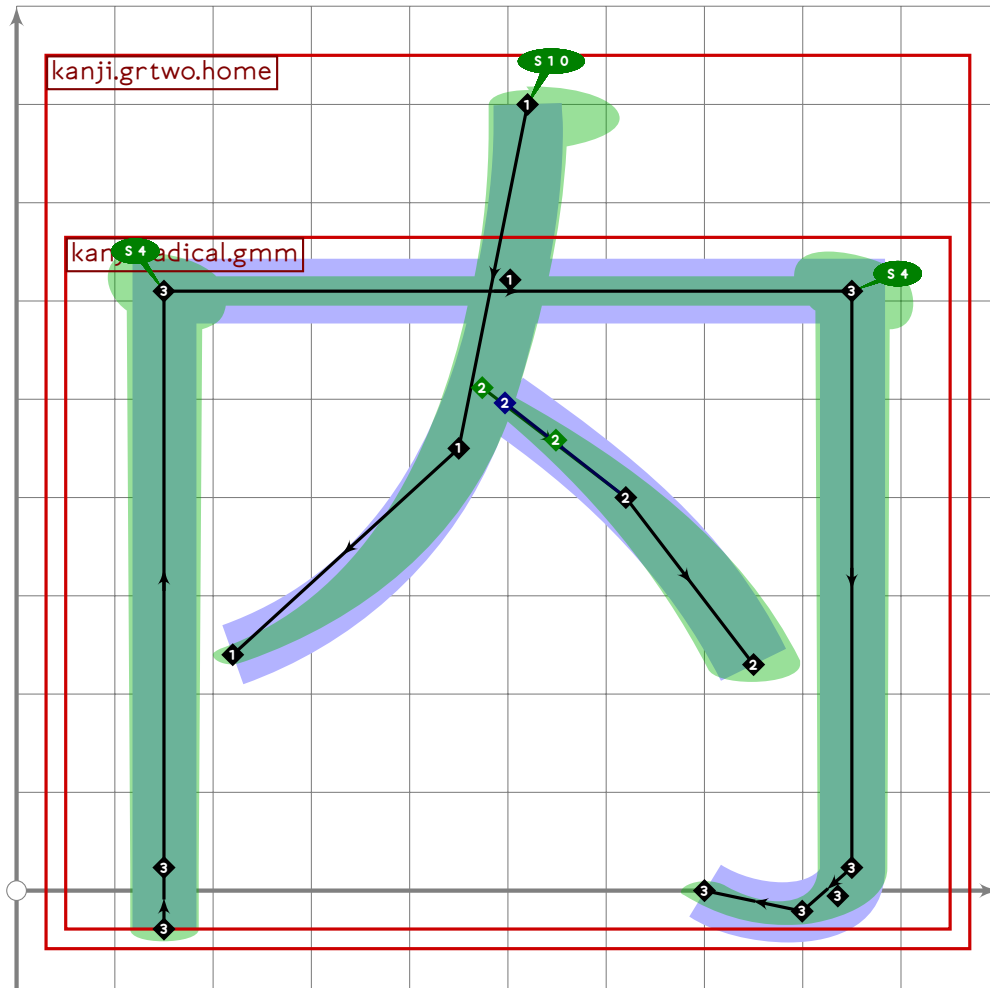
TWO

```

533
534 vardef kanji.grtwo.hit =
535   push_pbox_toexpand("kanji.grtwo.hit");
536   build_kanji.level(build_kanji.tb(450,50)
537     (kanji.toprad.sparkle_three)
538     (kanji.radical.pigs_head));
539   expand_pbox;
540 enddef;

```

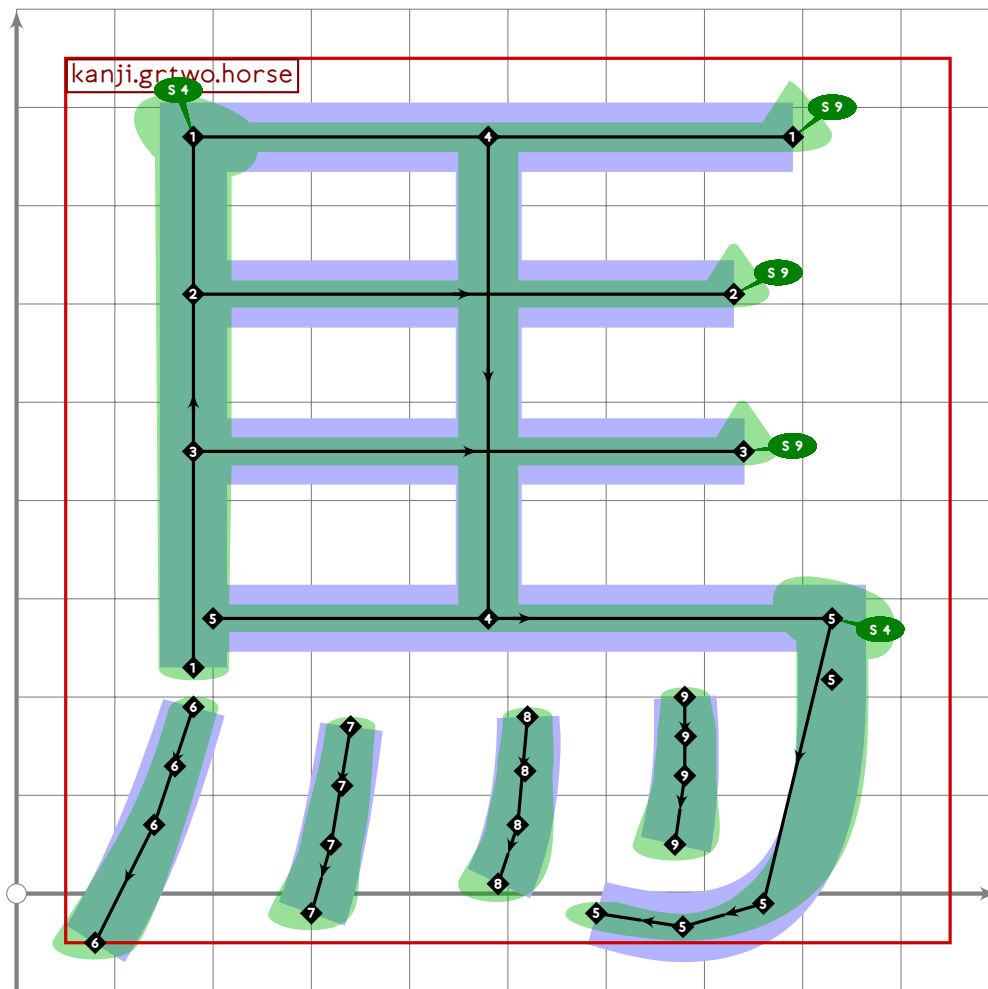
TWO



```

541
542 vardef kanji.grtwo.home =
543   push_pbox_toexpand("kanji.grtwo.home");
544   push_stroke((520,800)..tension 1.2..(450,450)..(220,240),
545     (1.6,1.6)–(1.5,1.5)–(1.1,1.1));
546   set_boserif(0,0,10);
547   push_stroke(
548     (point 0.8 of get_strokep(0))..tension 1.2..(620,400)..(750,230),
549     (0.9,0.9)–(1.5,1.5)–(1.8,1.8));
550   tsu_xform(identity yscaled (610/780))(kanji.radical.gmm);
551   expand_pbox;
552 enddef;

```



TWO

```

553
554 vardef kanji.grtwo.horse =
555   push_pbox_toexpand("kanji.grtwo.horse");
556   push_stroke((180,230)–(180,770)–(790,770),
557     (1.5,1.5)–(1.6,1.6)–(1.6,1.6));
558   set_boserif(0,14);
559   set_boserif(0,2,9);
560   set_botip(0,1);
561   push_stroke((180,610)–(730,610),
562     (1.5,1.5)–(1.5,1.5));
563   set_boserif(0,1,9);
564   push_stroke((180,450)–(740,450),
565     (1.5,1.5)–(1.5,1.5));
566   set_boserif(0,1,9);
567   push_stroke((480,770)–(480,280),(14,14)–(1.3,1.3));
568   push_stroke((200,280)–(830,280){dir 268}..(760,-10)..{curl 0.2}(590,-20),
569     (1.5,1.5)–(1.5,1.5)–(1.5,1.5)–(1.5,1.5)–(14,14)–(1.2,1.2));
570   replace_strokep(0)(insert_nodes(oldp)((length oldp)–0.5));
571   set_boserif(0,14);
572   set_botip(0,1);
573   push_stroke((180,190)..tension 1.2..(140,70)..(80,-50),

```

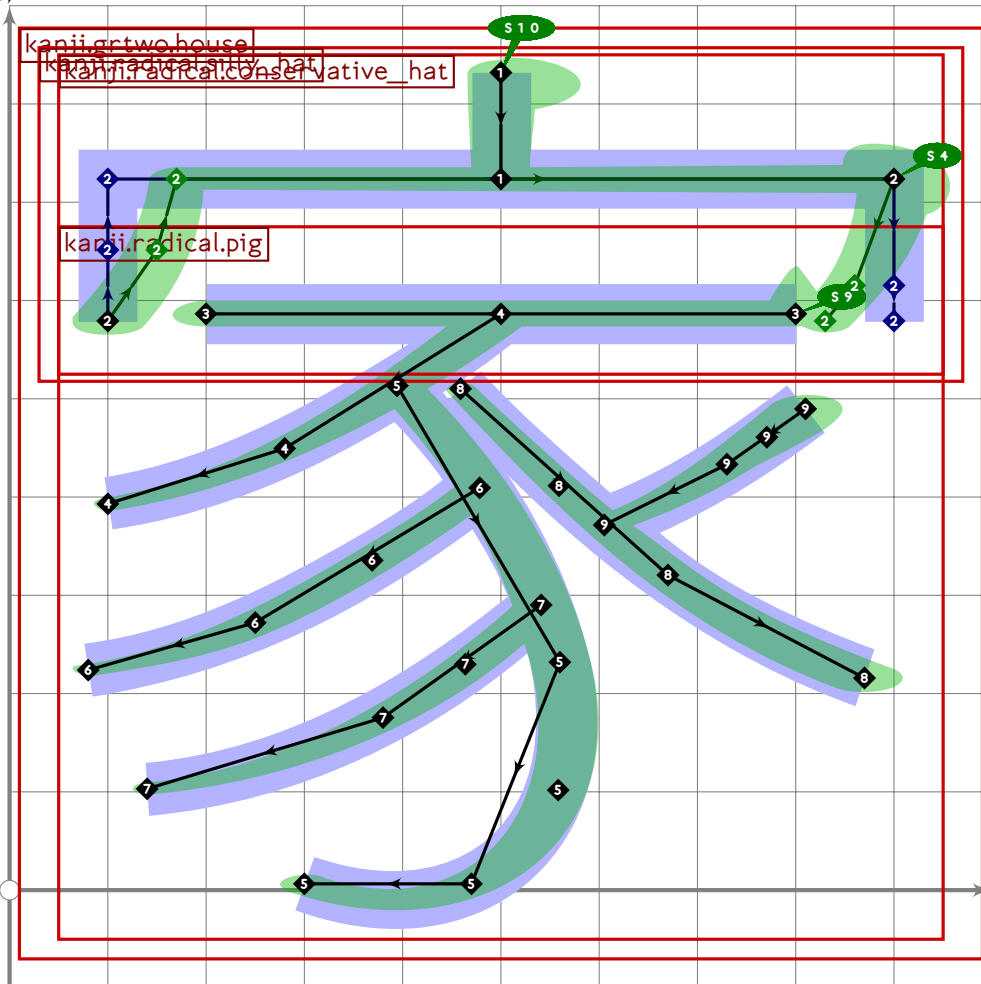
U+5BB6  
tsuku.uni5BB6

TWO

```

574 (1.2,1.2)-(14,14)-(17,1.7));
575 push_stroke((340,170)..tension 1.2..(320,50)..(300,-20),
576 (1.2,1.2)-(14,14)-(17,1.7));
577 push_stroke((520,180)..tension 1.2..(510,70)..(490,10),
578 (1.2,1.2)-(14,14)-(17,1.7));
579 push_stroke((680,200)..tension 1.2..(680,120)..(670,50),
580 (1.2,1.2)-(14,14)-(17,1.7));
581 expand_pbox;
582 enddef;

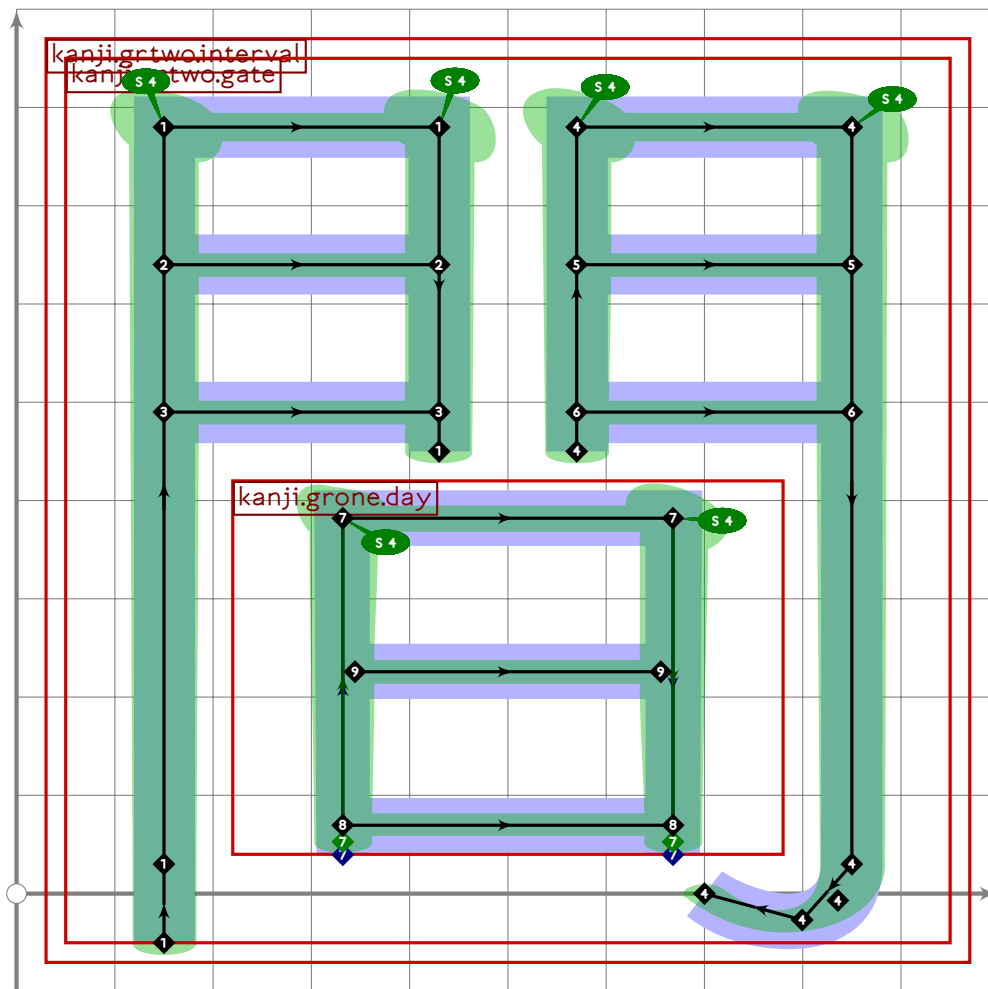
```



```

583
584 vardef kanji.grtwo.house =
585   push_pbox_toexpand("kanji.grtwo.house");
586   build_kanji.level(build_kanji.tb(600,150)
587     (kanji.radical.silly_hat)
588     (kanji.radical.pig));
589   expand_pbox;
590 enddef;

```



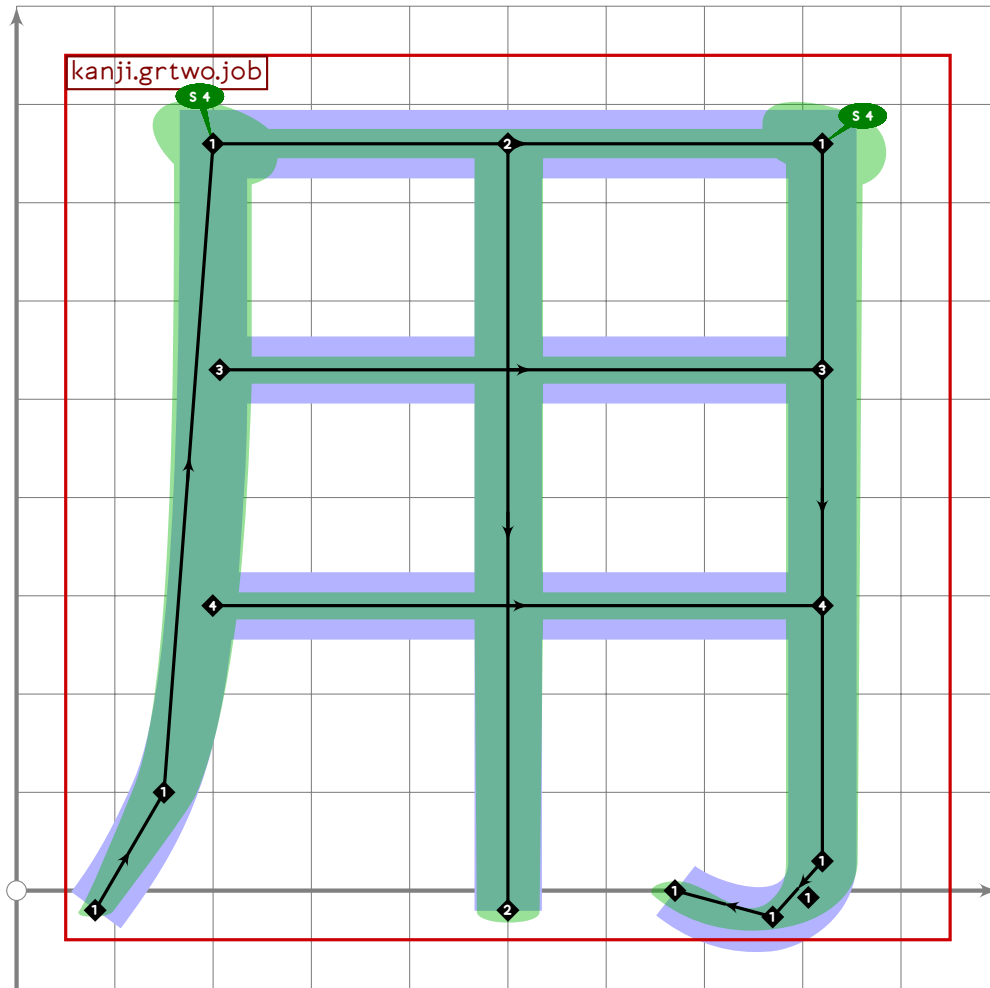
TWO

```

591
592 vardef kanji.grtwo.interval =
593   push_pbox_toexpand("kanji.grtwo.interval");
594   build_kanji.gate_enclose(kanji.grone.day);
595   expand_pbox;
596 enddef;

```

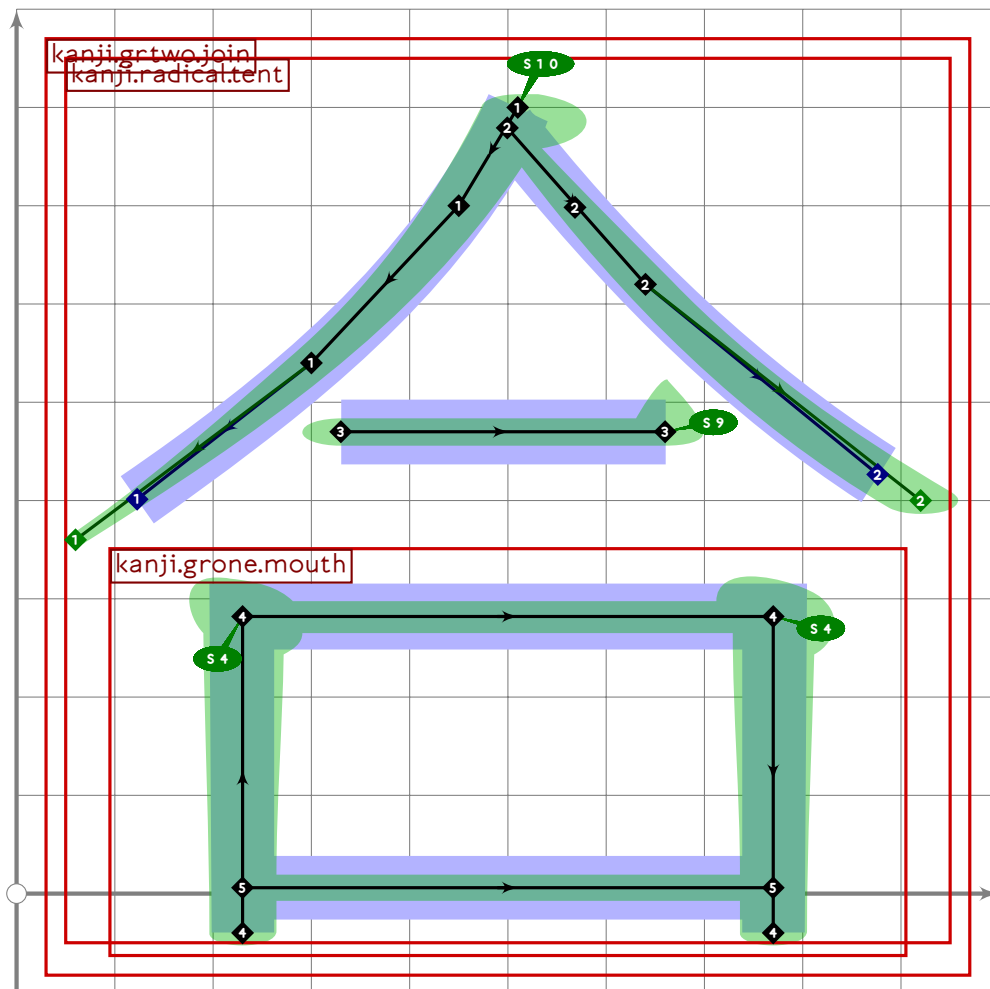
TWO



```

597
598 vardef kanji.grtwo.job =
599   push_pbox_toexpand("kanji.grtwo.job");
600   push_stroke((80,-20)..(150,100)..{up}{200,760}{right}-(820,760),
601     (1,1)-(14,14)-(1.6,1.6)-(1.6,1.6));
602   build_kanji.add_jtail(0);
603   set_botip(0,2,0.8);
604   set_botip(0,3,1);
605   set_boserif(0,2,4);
606   set_boserif(0,3,4);
607   push_stroke((500,760)-(500,-20),(1.5,1.5)-(1.4,1.4));
608   push_stroke(
609     (get_stroke(-1) intersectionpoint ((0,530)-(1000,530)))-(820,530),
610     (1.5,1.5)-(1.5,1.5));
611   push_stroke(
612     (get_stroke(-2) intersectionpoint ((0,290)-(1000,290)))-(820,290),
613     (1.5,1.5)-(1.5,1.5));
614   expand_pbox;
615 enddef;

```



TWO

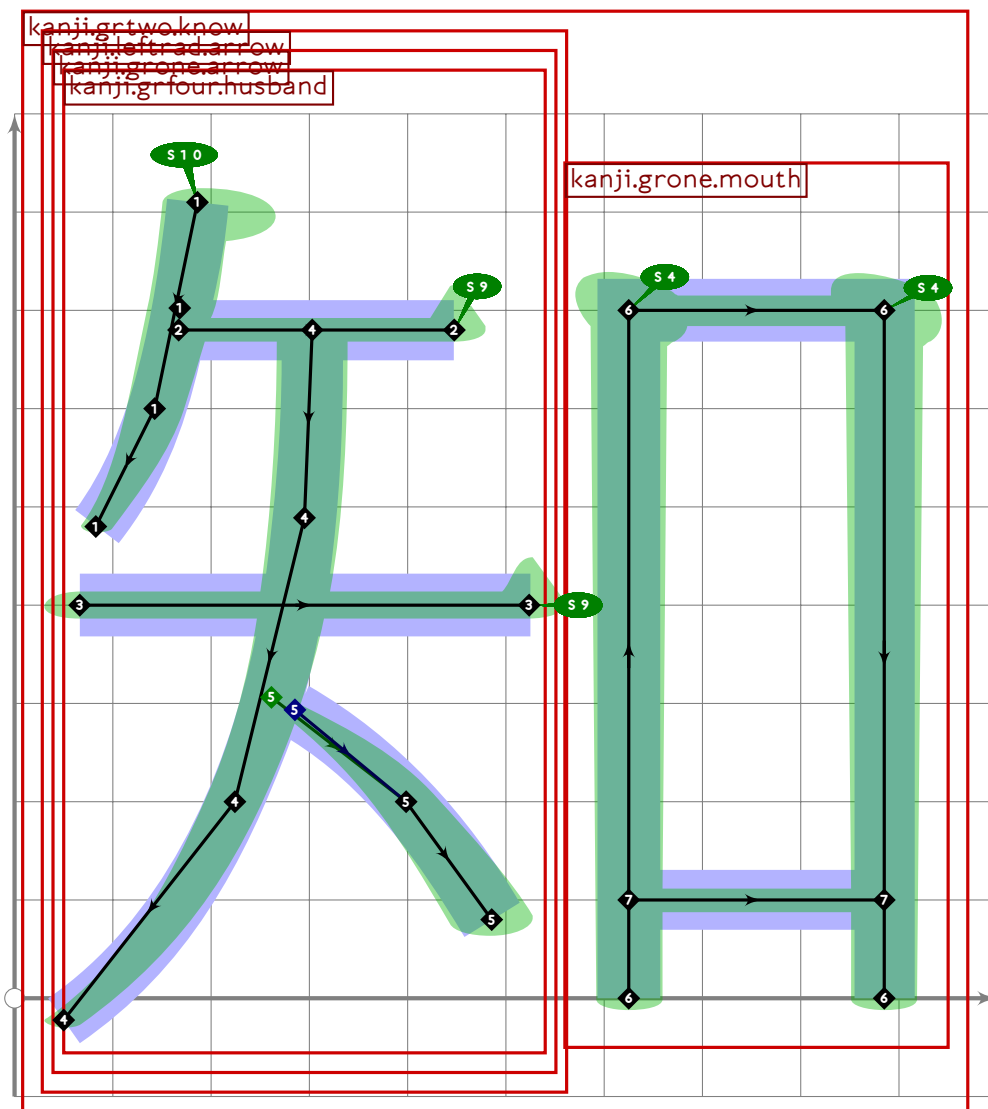
```

616
617 vardef kanji.grtwo.join =
618   push_pbox_toexpand("kanji.grtwo.join");
619   build_kanji.level(
620     kanji.radical.tent;
621     tsu_xform(identity shifted (-500,0) xyscaled (0.9,0.46) shifted (500,-40))
622     (kanji.grone.mouth);
623   );
624   expand_pbox;
625 enddef;

```



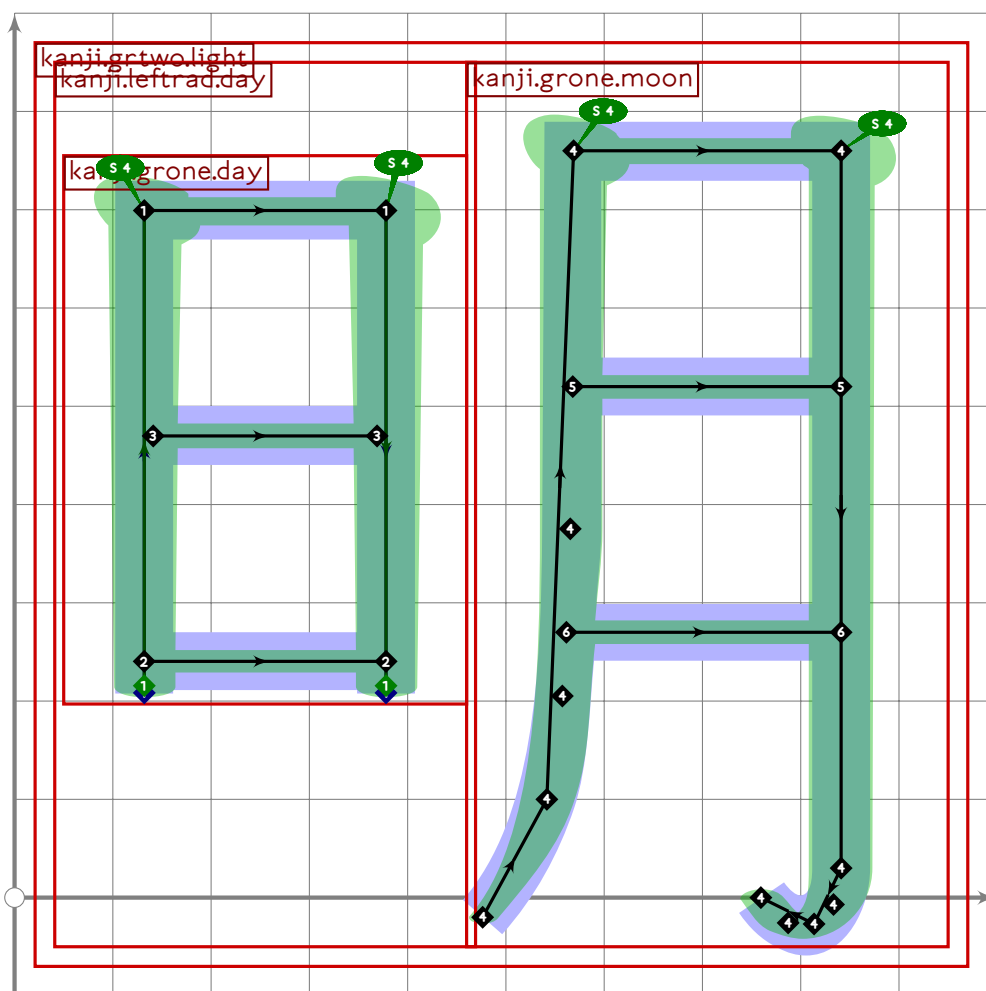
TWO



```

626
627 vardef kanji.grtwo.know =
628   push_pbox_toexpand("kanji.grtwo.know");
629   build_kanji.level(build_kanji.lr(550,-20)
630     (kanji.leftrad.arrow)
631     (kanji.grone.mouth));
632   expand_pbox;
633 enddef;

```



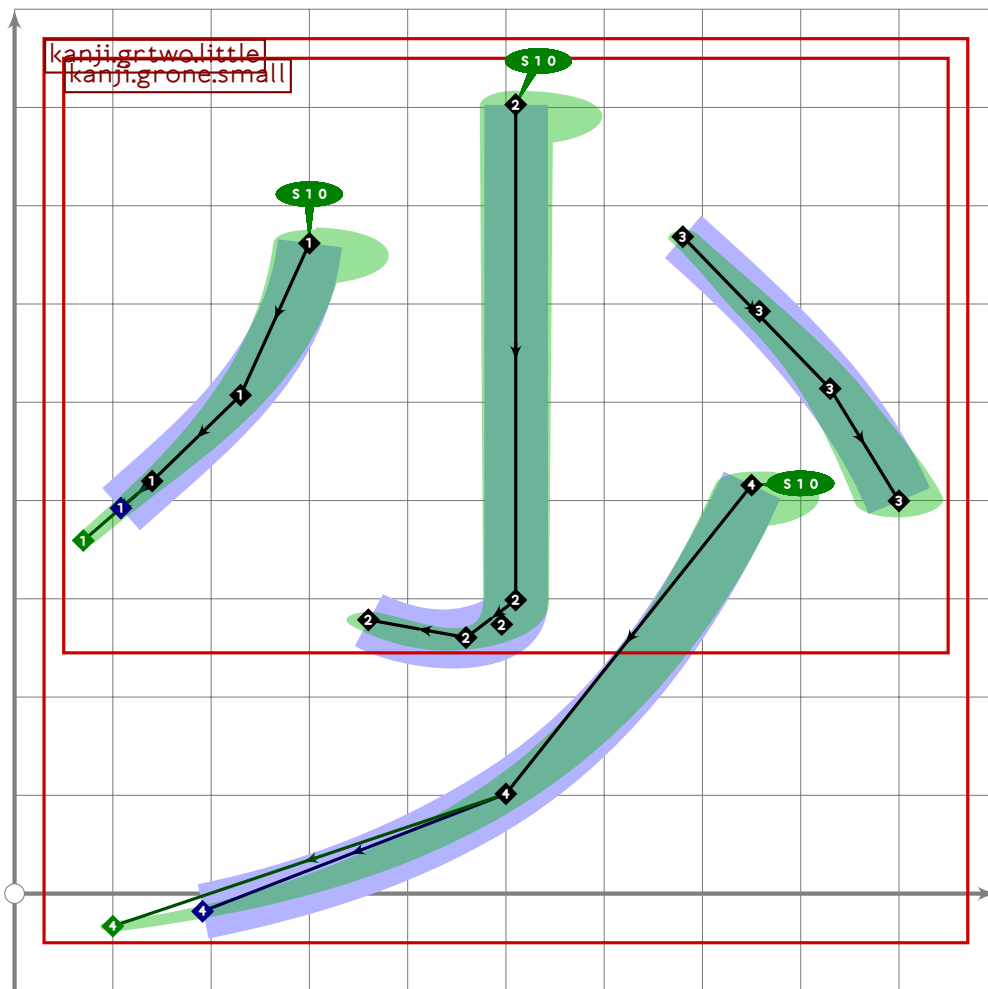
TWO

```

634
635 vardef kanji.grtwo.light =
636   push_pbox_toexpand("kanji.grtwo.light");
637   build_kanji.level(build_kanji.lr(460,0)
638     (kanji.leftrad.day)
639     (kanji.grone.moon));
640   expand_pbox;
641 enddef;

```

TWO



```

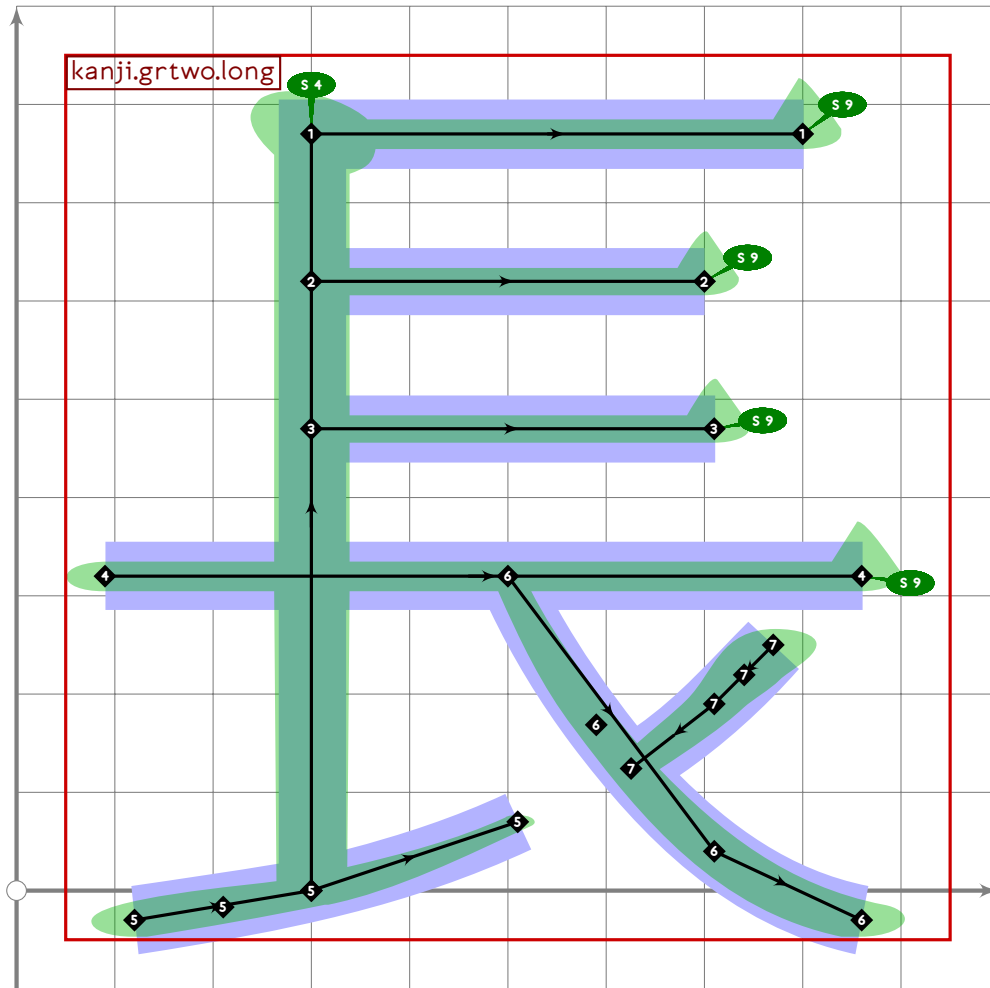
642
643 vardef kanji.grtwo.little =
644   push_pbox_toexpand("kanji.grtwo.little");
645   build_kanji.level(build_kanji.tb(350,210)
646     (kanji.grone.small)
647     (
648       push_stroke((750,780){curl 0.1}..(500,220)..(100,-20),
649         (1.6,1.6)-(1.4,1.4)-(0.9,0.9));
650       set_boserif(0,0,10);
651     ));
652   expand_pbox;
653 enddef;

```



TWO

TWO

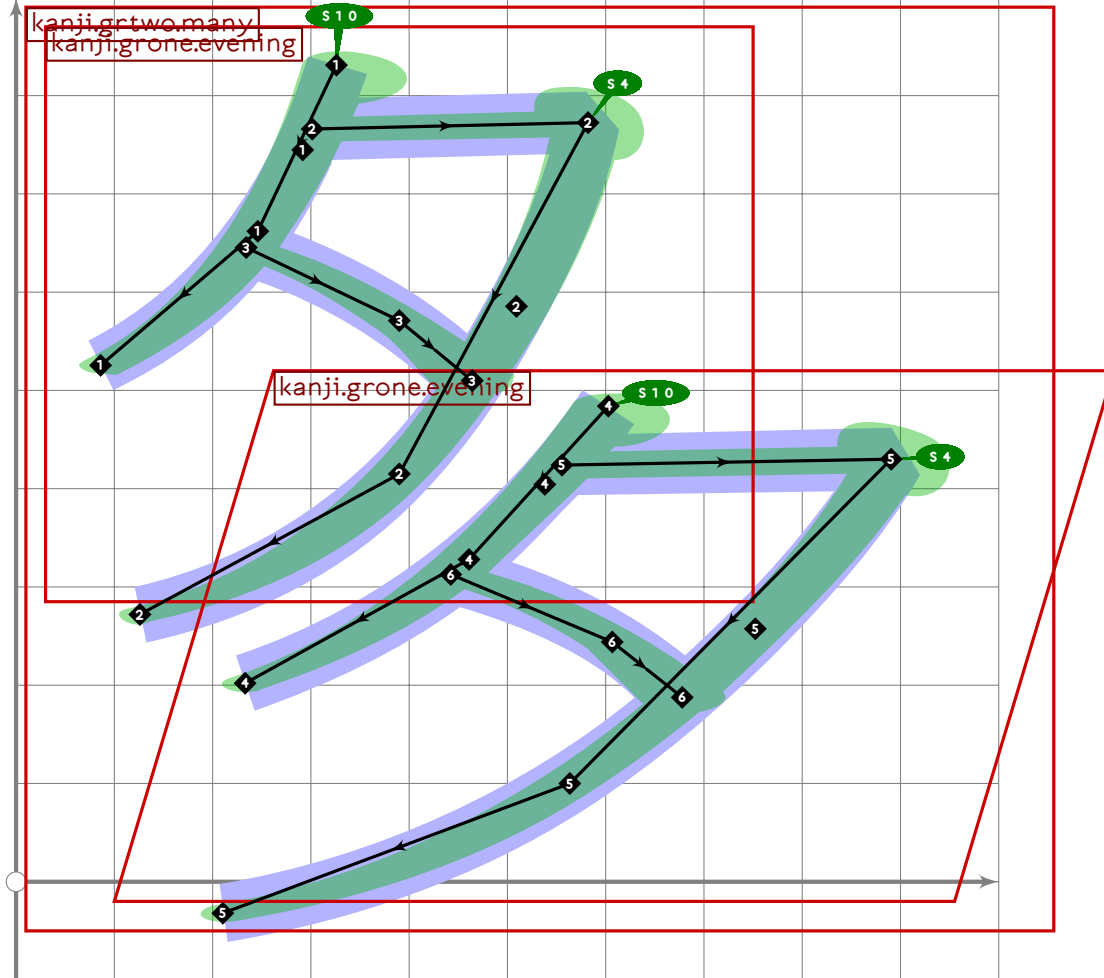


```

671
672 vardef kanji.grtwo.long =
673   push_pbox_toexpand("kanji.grtwo.long");
674   push_stroke((300,0)–(300,770)–(800,770),
675     (1.5,1.5)–(1.6,1.6)–(1.6,1.6));
676   set_boserif(0,14);
677   set_boserif(0,2,9);
678   set_botip(0,1);
679   push_stroke((300,620)–(700,620),(1.5,1.5)–(1.5,1.5));
680   set_boserif(0,1,9);
681   push_stroke((300,470)–(710,470),(1.5,1.5)–(1.5,1.5));
682   set_boserif(0,1,9);
683   push_stroke((90,320)–(860,320),(1.6,1.6)–(1.6,1.6));
684   set_boserif(0,1,9);
685   push_stroke((120,30)..tension 1.2..(300,0)..(510,70),
686     (1.7,1.7)–(1.5,1.5)–(1,1));
687   push_stroke((500,320)..tension 1.2..(710,40)..(860,30),
688     (1,1)–(1.4,1.4)–(1.7,1.7));
689   push_stroke((770,250)..tension 1.2..(710,190)..
690     (point 0.65 of get_strokep(0)),
691     (1.7,1.7)–(1.4,1.4)–(1.2,1.2));

```

```
692 expand_pbox;
693 enddef;
```

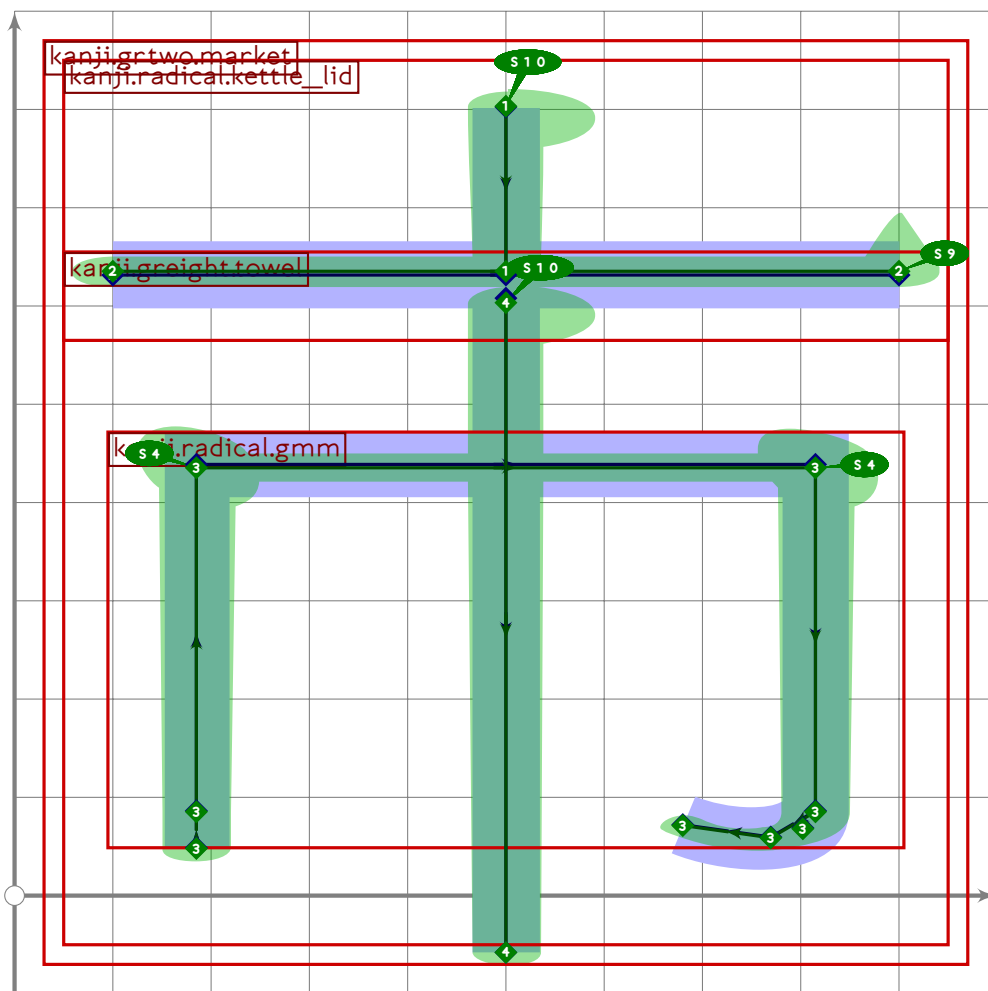


TWO

```
694
695 vardef kanji.grtwo.many =
696   push_pbox_toexpand("kanji.grtwo.many");
697   perl_structure:=perl_structure&"eids.u2FF1._11_";
698   tsu_xform(identity shifted (-50,850) xyscaled (0.8,0.65) shifted (30,870))
699     (kanji.grone.evening);
700   tsu_xform(identity shifted (-50,50)
701     xyscaled (0.95,0.6) slanted 0.3 shifted (100,-20))
702     (kanji.grone.evening);
703   expand_pbox;
704 enddef;
```

U+5E02  
tsuku.uni5E02

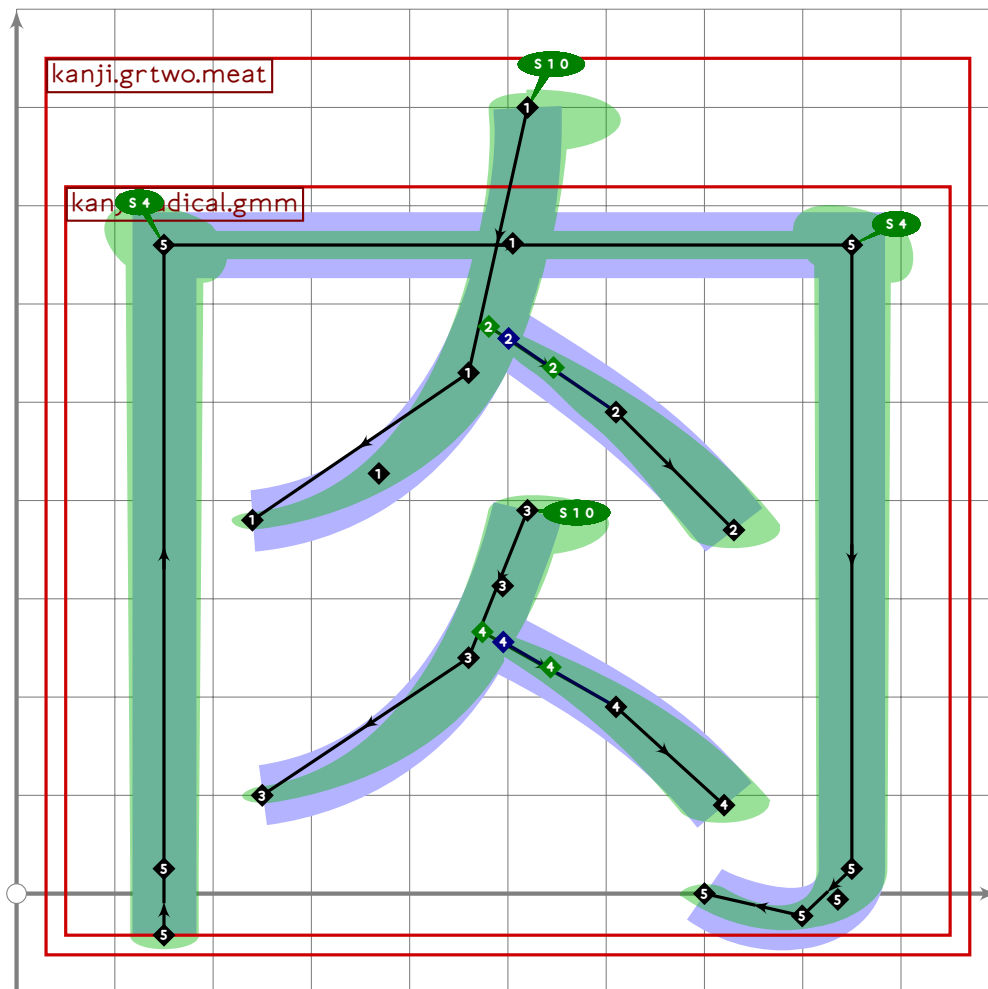
TWO



```

705
706 vardef kanji.grtwo.market =
707   push_pbox_toexpand("kanji.grtwo.market");
708   build_kanji.level(build_kanji.tb(610,90-10*mincho)
709     (kanji.radical.kettle_lid)
710     (kanji.greight.towel));
711   expand_pbox;
712 enddef;

```



TWO

```

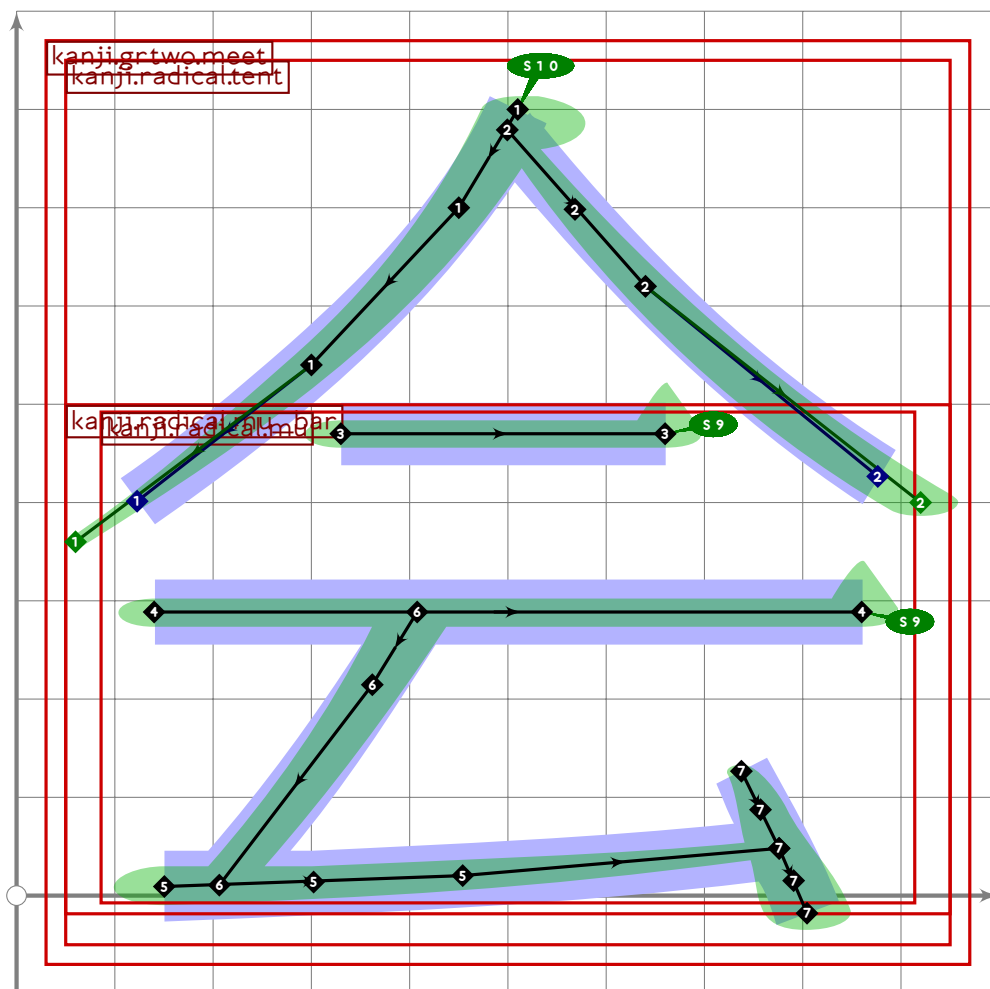
713
714 vardef kanji.grtwo.meat =
715   push_pbox_toexpand("kanji.grtwo.meat");
716   push_stroke((520,800)..tension 1.2..(460,530)..(240,380),
717     (1.6,1.6)–(1.5,1.5)–(1.1,1.1));
718   set_boserif(0,0,10);
719   push_stroke((point 0.8 of get_stroke(0))..tension 1.2..(610,490)..(730,370),
720     (0.9,0.9)–(1.5,1.5)–(1.8,1.8));
721   push_stroke((520,390)..tension 1.2..(460,240)..(250,100),
722     (1.6,1.6)–(1.5,1.5)–(1.1,1.1));
723   set_boserif(0,0,10);
724   push_stroke((point 0.8 of get_stroke(0))..tension 1.2..(610,190)..(720,90),
725     (0.9,0.9)–(1.5,1.5)–(1.8,1.8));
726   tsu_xform(identity yscaled (660/780))(kanji.radical.gmm);
727   expand_pbox;
728 enddef;

```



U+4F1A  
tsuku.uni4F1A

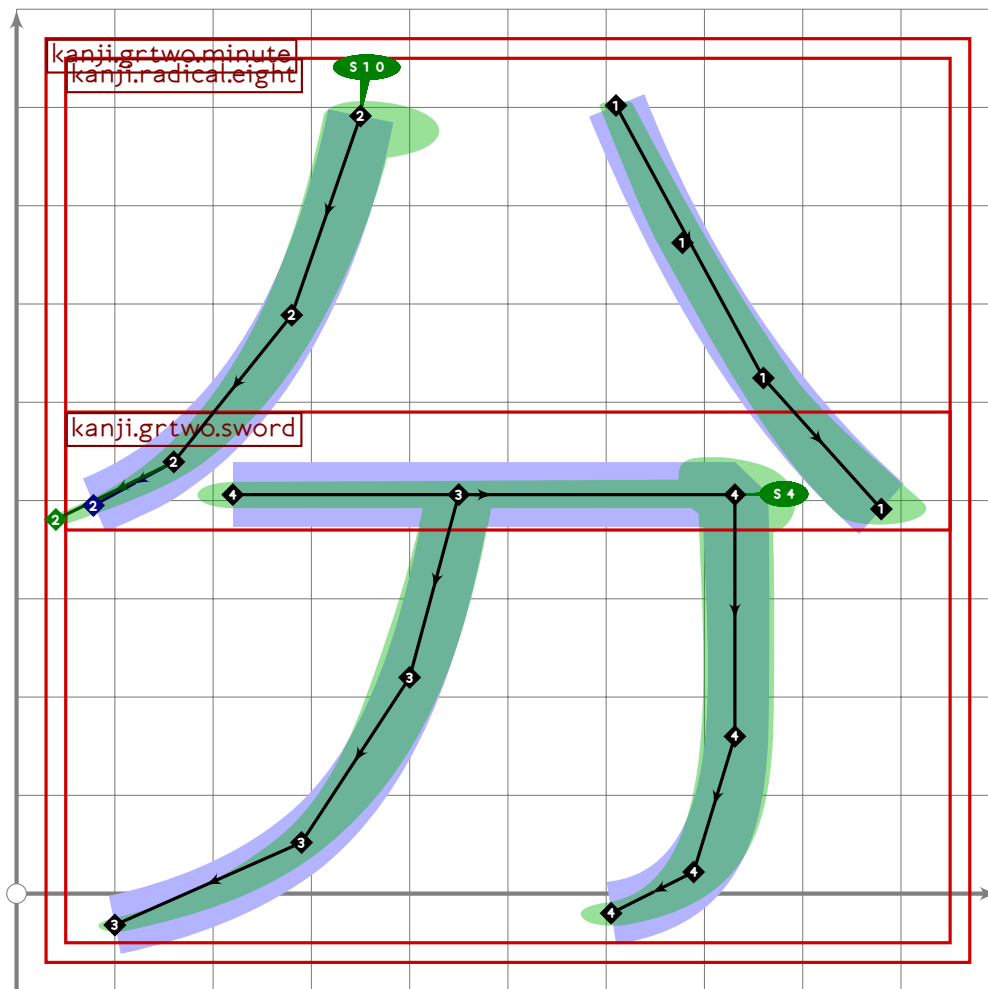
TWO



```

729
730 vardef kanji.grtwo.meet =
731   push_pbox_toexpand("kanji.grtwo.meet");
732   build_kanji.level(
733     kanji.radical.tent;
734     tsu_xform(identity yscaled 0.37)(kanji.radical.mu_bar);
735   );
736   expand_pbox;
737 enddef;

```



TWO

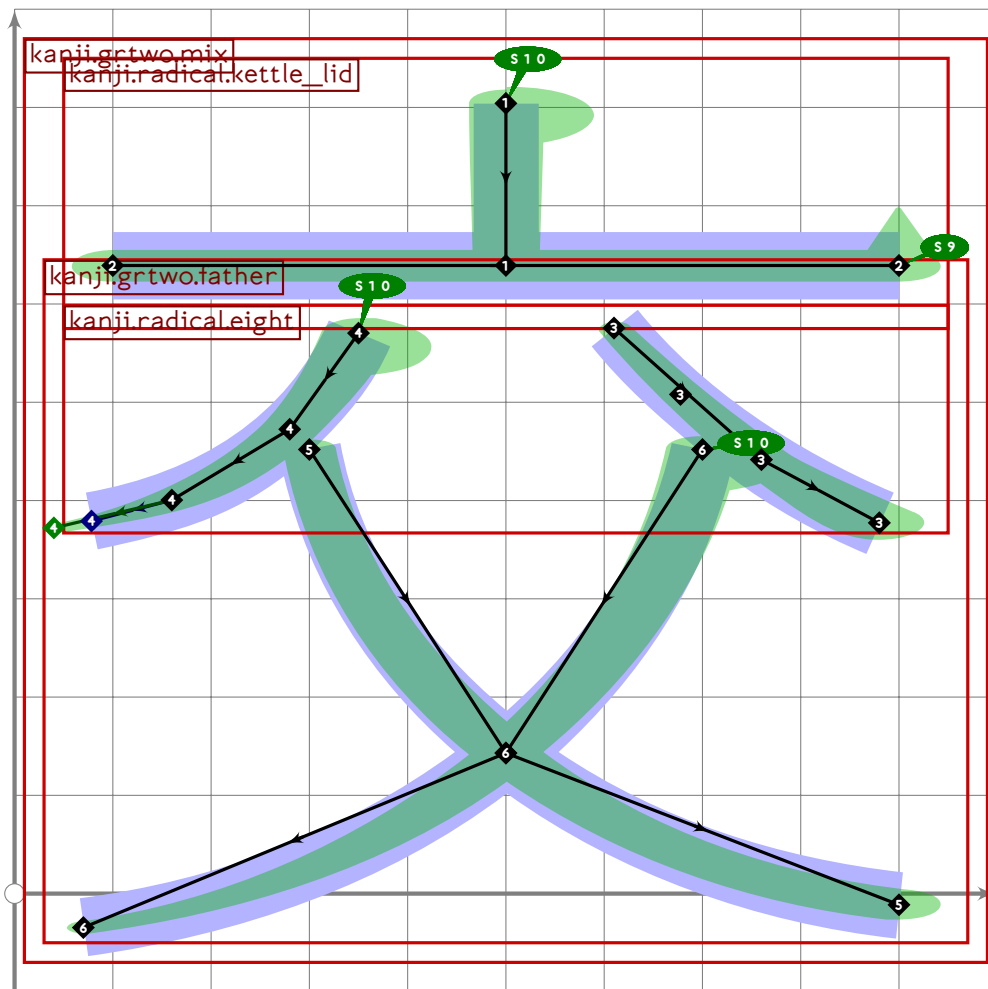
```

738
739 vardef kanji.grtwo.minute =
740   push_pbox_toexpand("kanji.grtwo.minute");
741   build_kanji.level(build_kanji.tb(430,120)
742     (kanji.radical.eight)
743     (kanji.grtwo.sword;
744       replace_stroke(0)(oldp shifted (-500,0) xscaled 0.7 shifted (500,0))));
745   expand_pbox;
746 enddef;

```

U+4EA4  
tsuku.uni4EA4

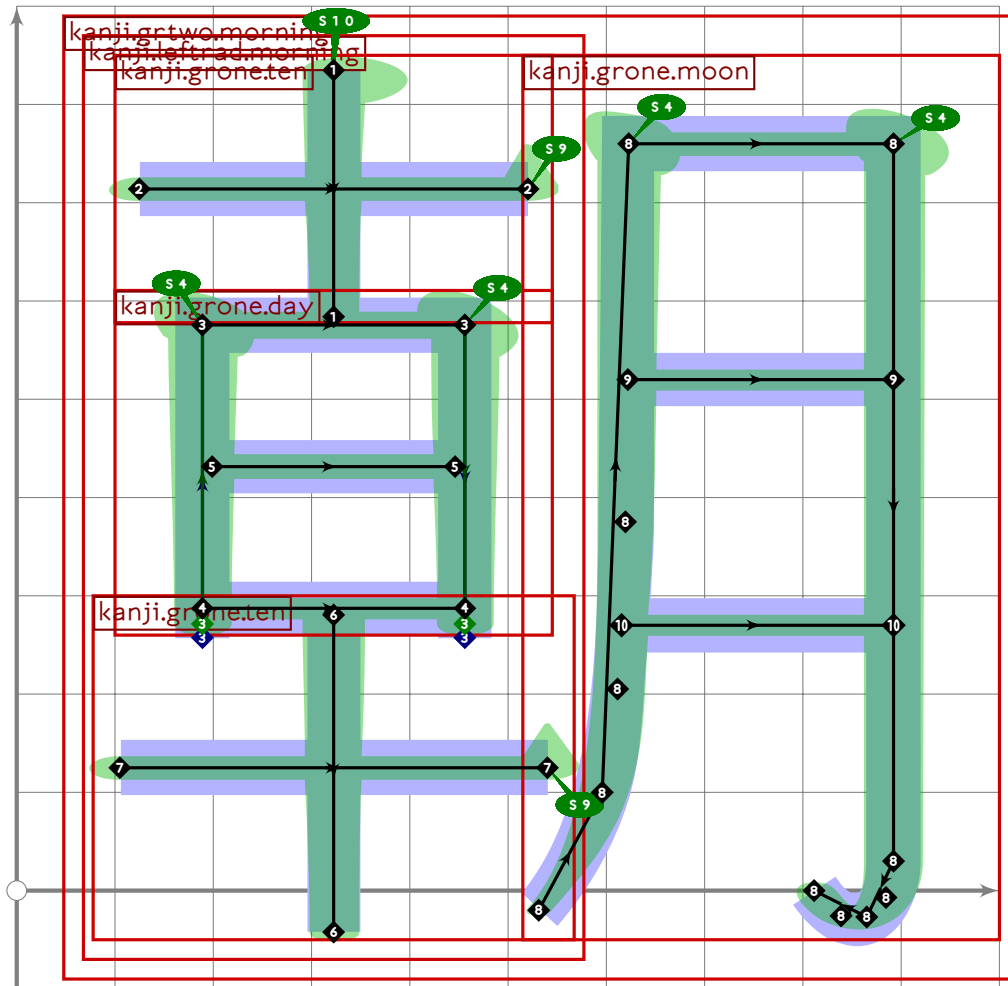
TWO



```

747
748 vardef kanji.grtwo.mix =
749   push_pbox_toexpand("kanji.grtwo.mix");
750   build_kanji.level(build_kanji.tb(610,70)
751     (kanji.radical.kettle_lid)
752     (kanji.grtwo.father));
753   expand_pbox;
754 enddef;

```



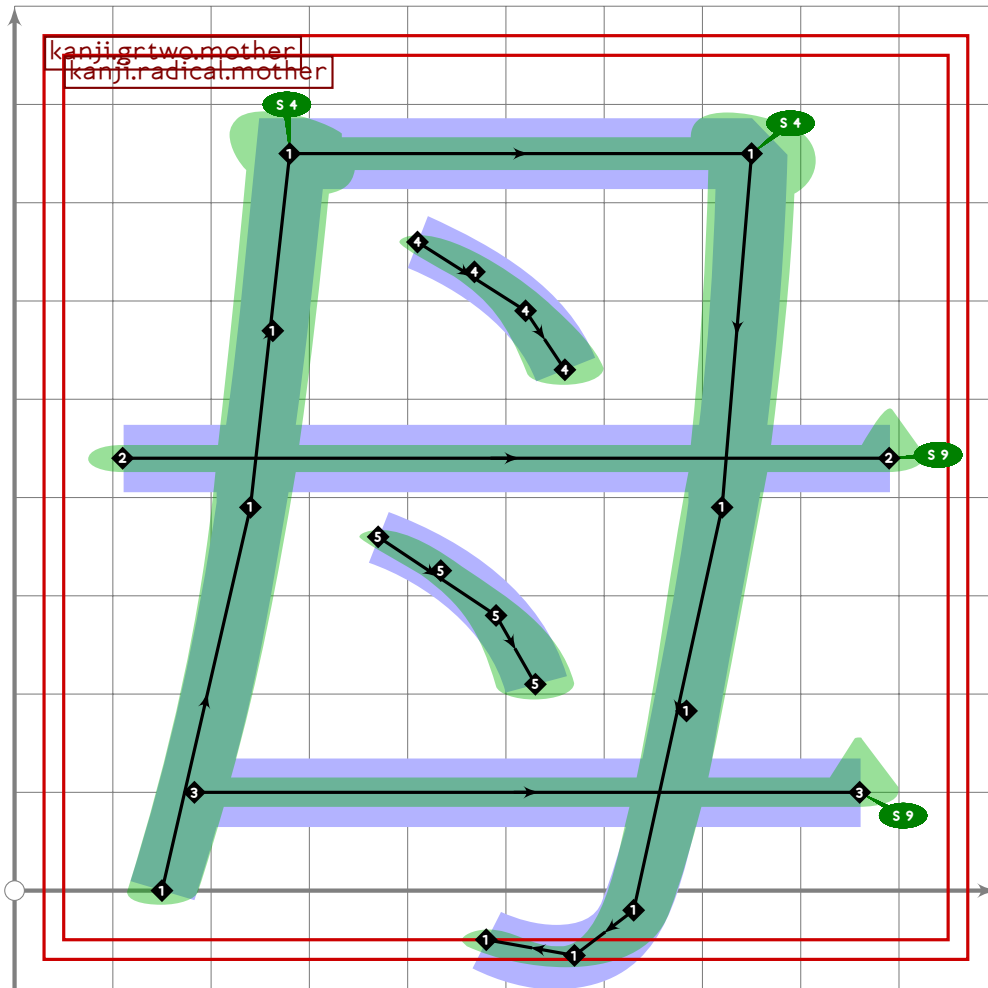
TWO

```

755
756 vardef kanji.grtwo.morning =
757   push_pbox_toexpand("kanji.grtwo.morning");
758   tsu_xform(identity shifted (50,0))
759   (build_kanji.level(build_kanji.lr(480,30)
760     (kanji.leftrad.morning)
761     (kanji.grone.moon)));
762   expand_pbox;
763 enddef;

```

TWO

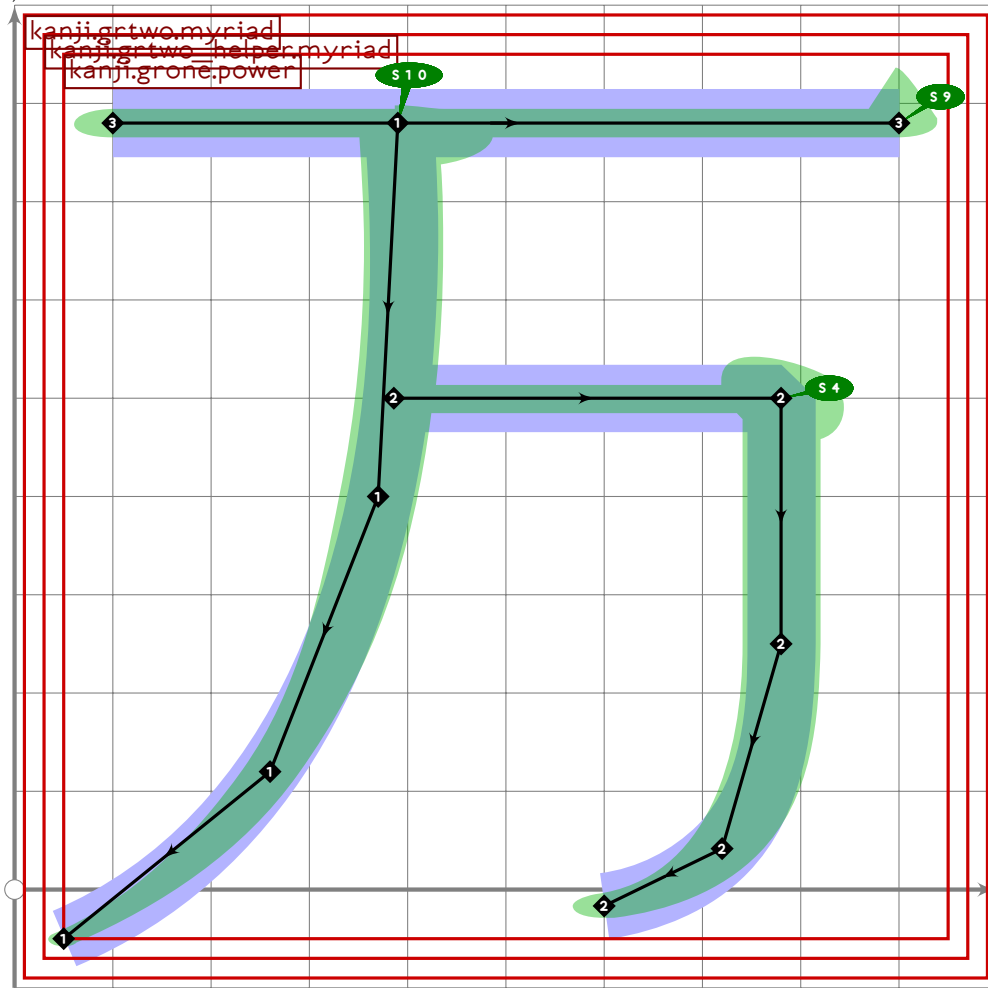


```

764
765 vardef kanji.grtwo.mother =
766   push_pbox_toexpand("kanji.grtwo.mother");
767   kanji.radical.mother;
768   push_stroke((410,660)..tension 1.2..(520,590)..(560,530),
769     (1,1,1)-(14,14)-(17,17));
770   set_bosize(0,90);
771   push_stroke((370,360)..tension 1.2..(490,280)..(530,210),
772     (1,1,1)-(14,14)-(17,17));
773   set_bosize(0,90);
774   expand_pbox;
775 enddef;
776
777 vardef kanji.grtwo_helper.myriad =
778   push_pbox_toexpand("kanji.grtwo_helper.myriad");
779   kanji.grone.power;
780   set_boserif(0,0,whatever);
781   replace_strokep(0)(oldp yscaled (500/600) shifted (-50,0));
782   replace_strokep(0)(
783     subpath (xpart (oldp intersectiontimes get_strokep(-1)),infinity) of oldp);
784   expand_pbox;

```

785 enddef;



TWO

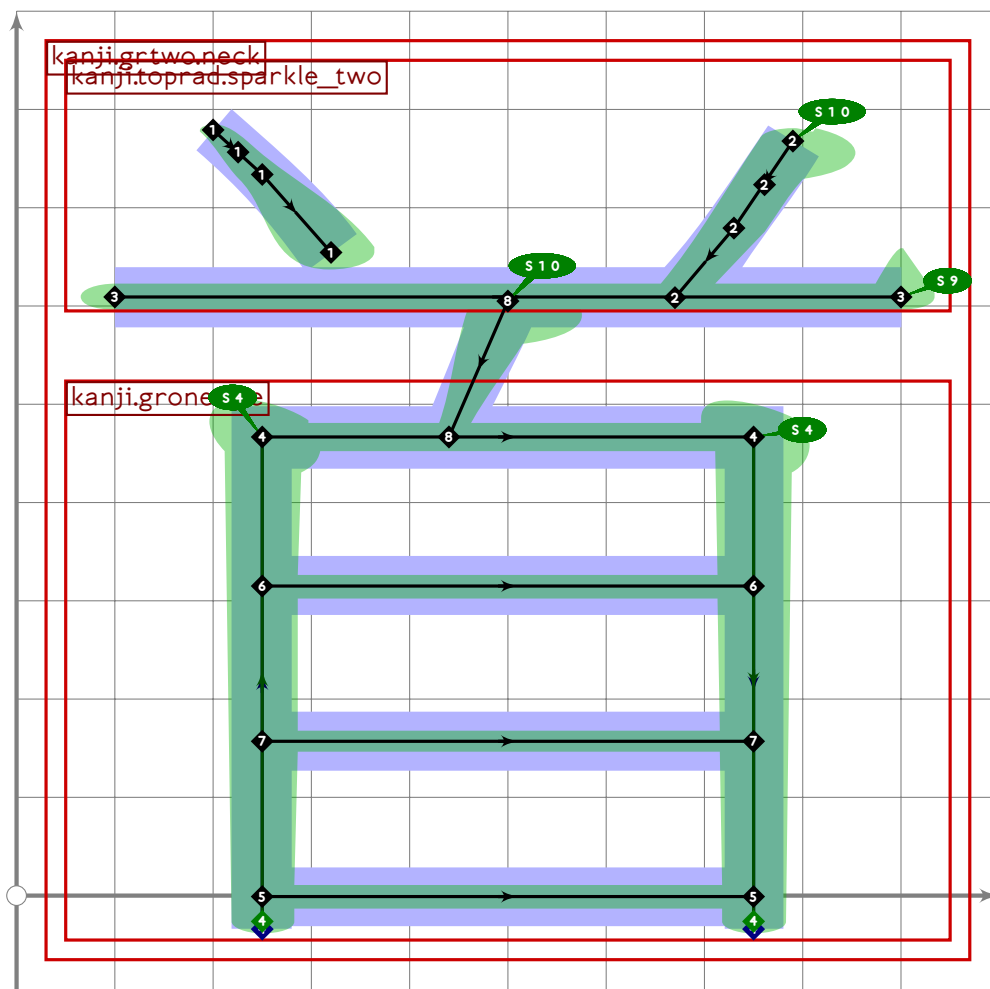
```

786
787 vardef kanji.grtwo.myriad =
788   push_pbox_toexpand("kanji.grtwo.myriad");
789   kanji.grtwo_helper.myriad;
790   push_stroke((100,780)-(900,780),(1,6,1,6)-(1,6,1,6));
791   set_boserif(0,1,9);
792   expand_pbox;
793 enddef;

```

U+9996  
tsuku.uni9996

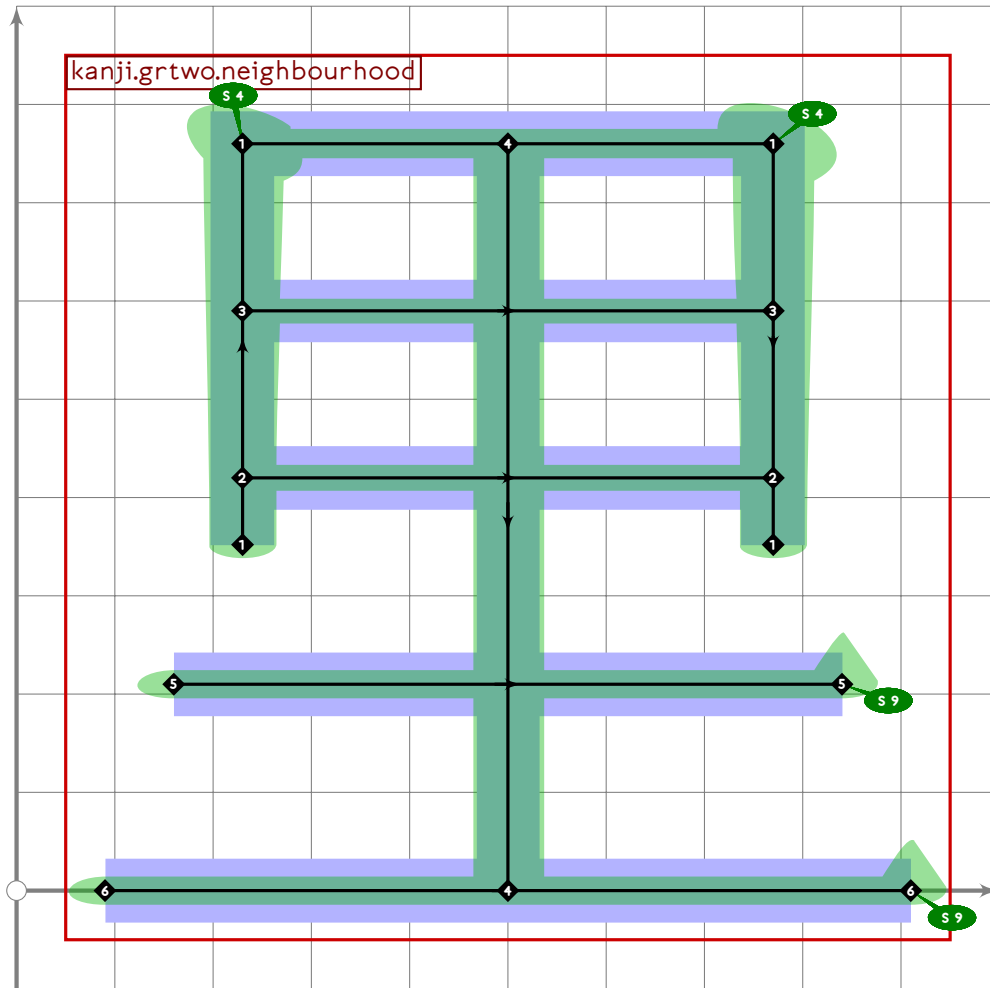
TWO



```

794
795 vardef kanji.grtwo.neck =
796   push_pbox_toexpand("kanji.grtwo.neck");
797   build_kanji.level(build_kanji.tb(600,10)
798     (kanji.toprad.sparkle_two;
799       replace_strokep(0)(oldp shifted (-point 0 of oldp)
800         yscaled 1.25 shifted (point 0 of oldp) shifted (0,-60));
801       push_stroke((100,0)-(900,0),(1.6,1.6)-(1.6,1.6));
802       set_boserif(0,1,9))
803     (build_kanji.attach_tick(660)(kanji.grone.ey)));
804   expand_pbox;
805 enddef;

```



TWO

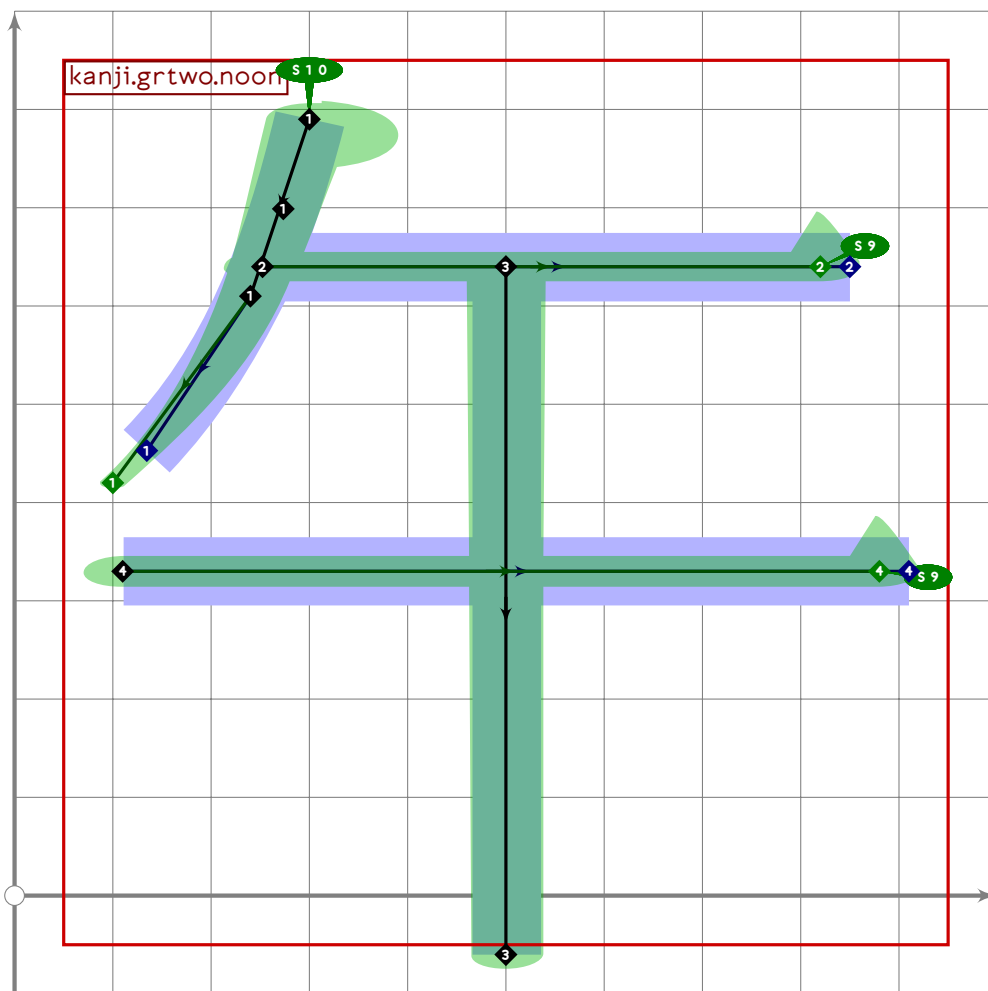
```

806
807 vardef kanji.grtwo.neighbourhood =
808   push_pbox_toexpand("kanji.grtwo.neighbourhood");
809   build_kanji.box((230,760),(770,420));
810   push_stroke((230,590)–(770,590),(1.5,1.5)–(1.5,1.5));
811   push_stroke((500,760)–(500,0),(1.6,1.6)–(1.5,1.5));
812   push_stroke((160,210)–(840,210),(1.6,1.6)–(1.6,1.6));
813   set_boserif(0,1,9);
814   push_stroke((90,0)–(910,0),(1.6,1.6)–(1.6,1.6));
815   set_boserif(0,1,9);
816   for i=-6 upto 0: set_bosize(i,93); endfor;
817   expand_pbox;
818 enddef;

```



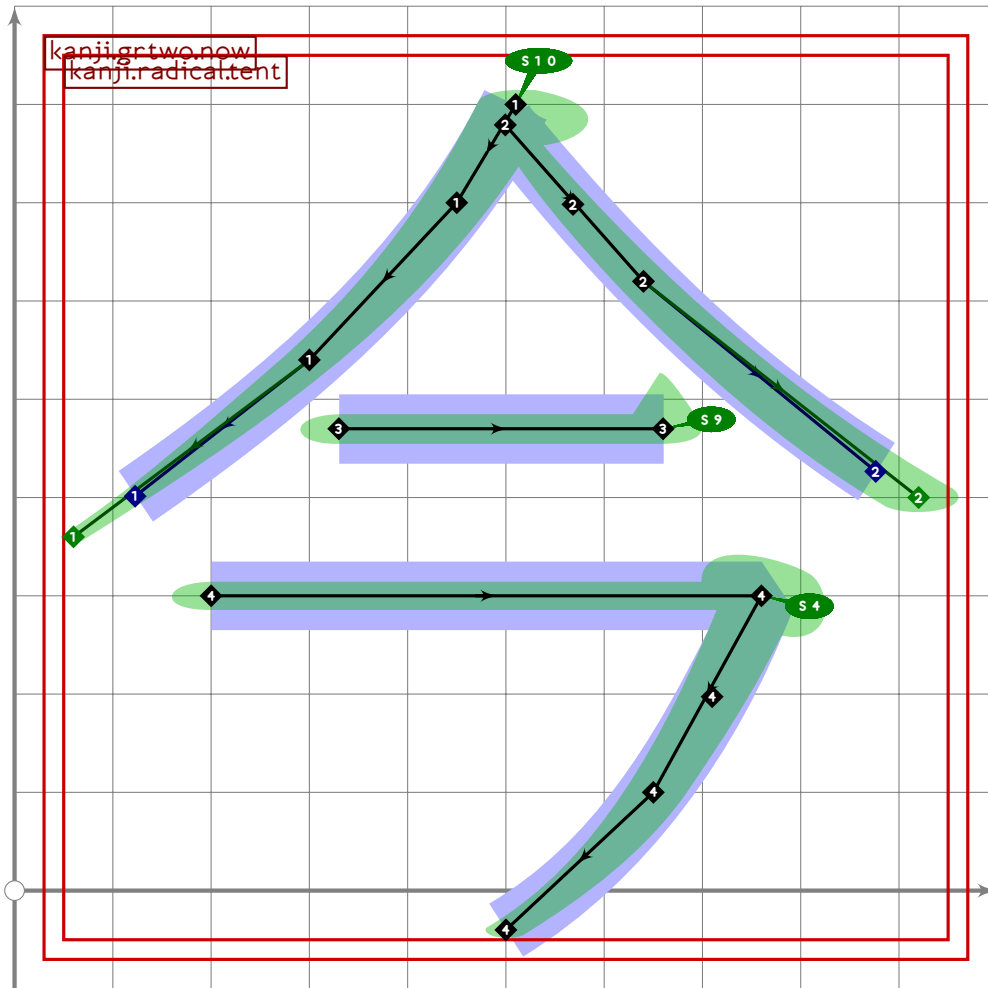
TWO



```

819
820 vardef kanji.grtwo.noon =
821   push_pbox_toexpand("kanji.grtwo.noon");
822   push_stroke((300,790)..tension 1.2..(240,610)..(100,420),
823     (1.7,1.7)–(1.4,1.4)–(0.9,0.9));
824   set_boserif(0,0,10);
825   push_stroke((((0,640)–(1000,640)) intersectionpoint get_stroke(0))–
826     (850–30*mincho,640),
827     (1.6,1.6)–(1.6,1.6));
828   set_boserif(0,1,9);
829   push_stroke((500,640)–(500,-60),(1.6,1.6)–(1.5,1.5));
830   push_stroke((110,330)–(910–30*mincho,330),
831     (1.6,1.6)–(1.6,1.6));
832   set_boserif(0,1,9);
833   expand_pbox;
834 enddef;

```



TWO

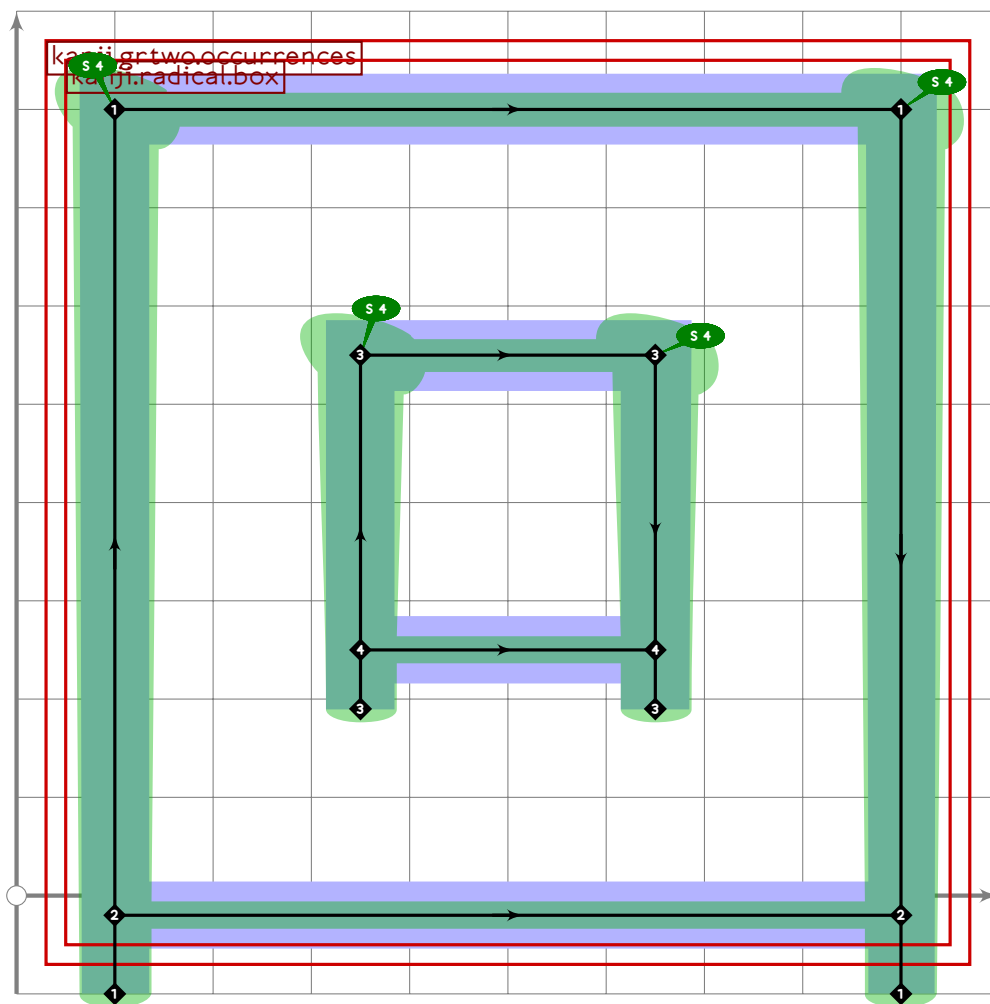
```

835
836 vardef kanji.grtwo.now =
837   push_pbox_toexpand("kanji.grtwo.now");
838   kanji.radical.tent;
839   push_stroke((200,300)-(760,300)..tension 1.2..(650,100)..(500,-40),
840     (1.6,1.6)-(1.6,1.6)-(1.4,1.4)-(1.1,1.1));
841   set_boserif(0,14);
842   set_botip(0,1,0);
843   expand_pbox;
844 enddef;

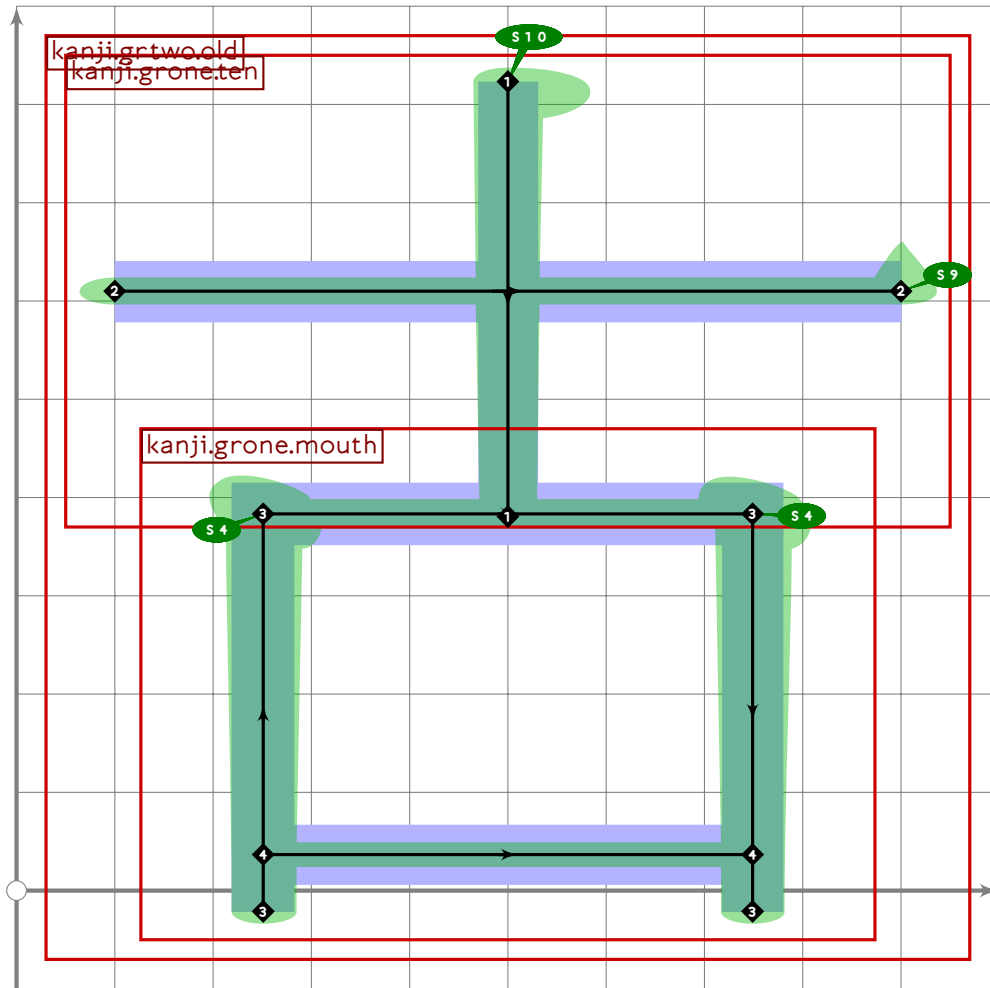
```

U+56DE  
tsuku.uni56DE

TWO



```
845
846 vardef kanji.grtwo.occurrences =
847   push_pbox_toexpand("kanji.grtwo.occurrences");
848   kanji.radical.box;
849   build_kanji.box((350,550),(650,250));
850   expand_pbox;
851 enddef;
```



TWO

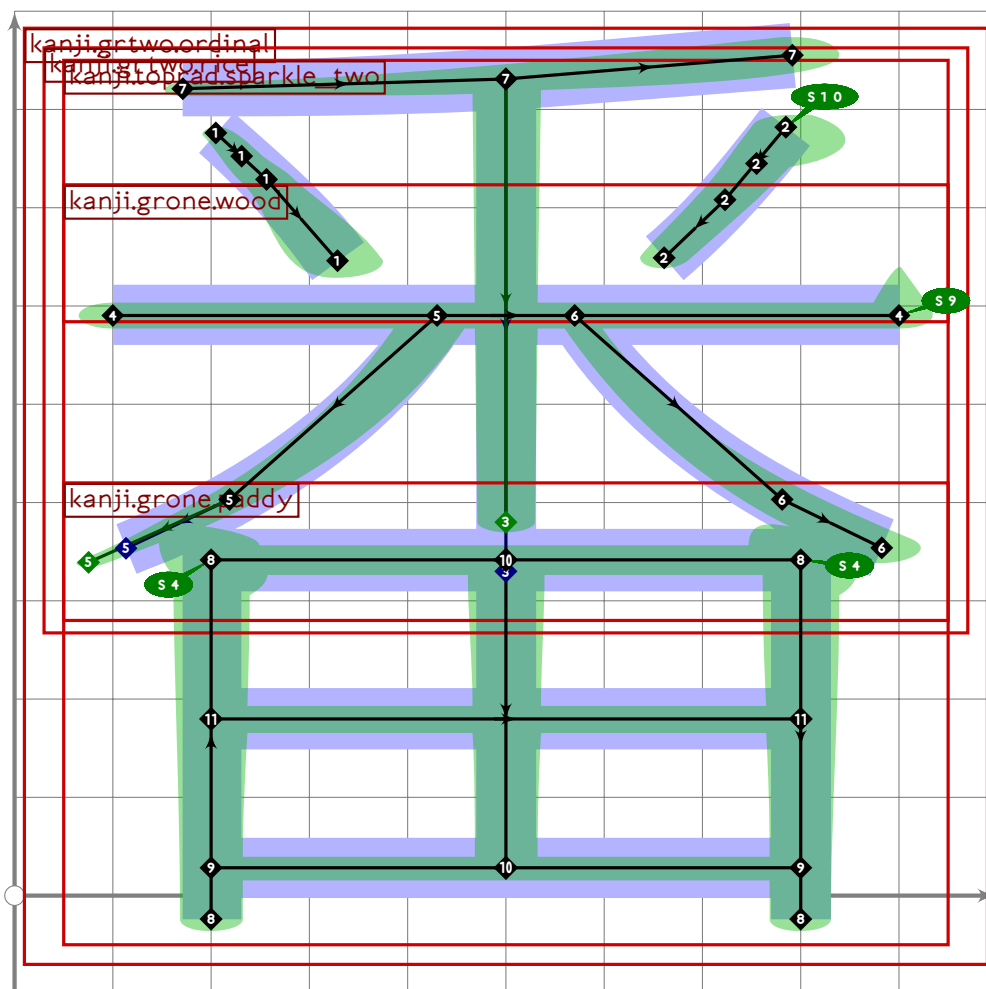
```

852
853 vardef kanji.grtwo.old =
854   push_pbox_toexpand("kanji.grtwo.old");
855   build_kanji.level(build_kanji.tb(420,100)
856     (kanji.grone.ten)
857     (build_kanji.sscale(xscaled 0.83)(kanji.grone.mouth)));
858   expand_pbox;
859 enddef;

```

U+756A  
tsuku.uni756A

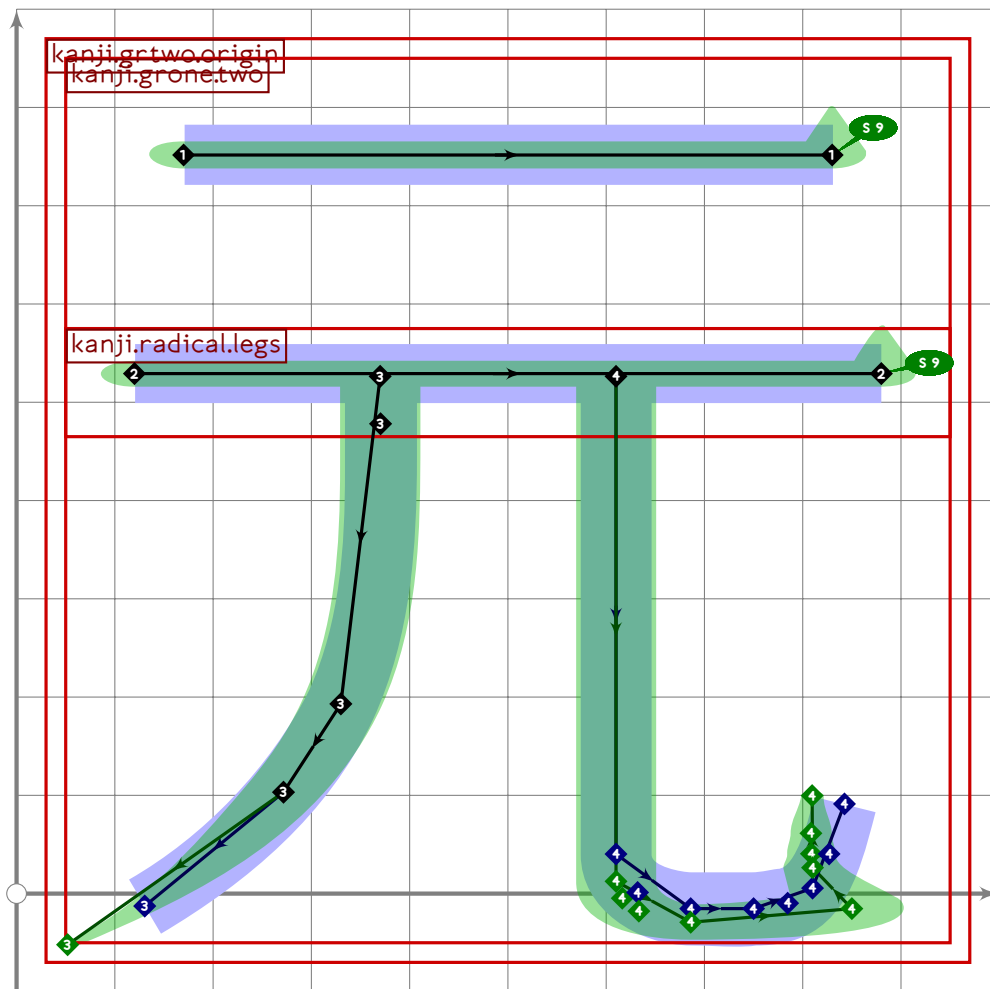
TWO



```

860
861 vardef kanji.grtwo.ordinal =
862   push_pbox_toexpand("kanji.grtwo.ordinal");
863   build_kanji.level(build_kanji.tb(350,140)
864     (build_kanji.spread_legs(140)(build_kanji.add_beret(
865       kanji.grtwo.rice)))
866     (kanji.grone.paddy));
867   replace_strokep(-8)((point 0 of oldp)-(500,330+50*mincho));
868   expand_pbox;
869 enddef;

```



TWO

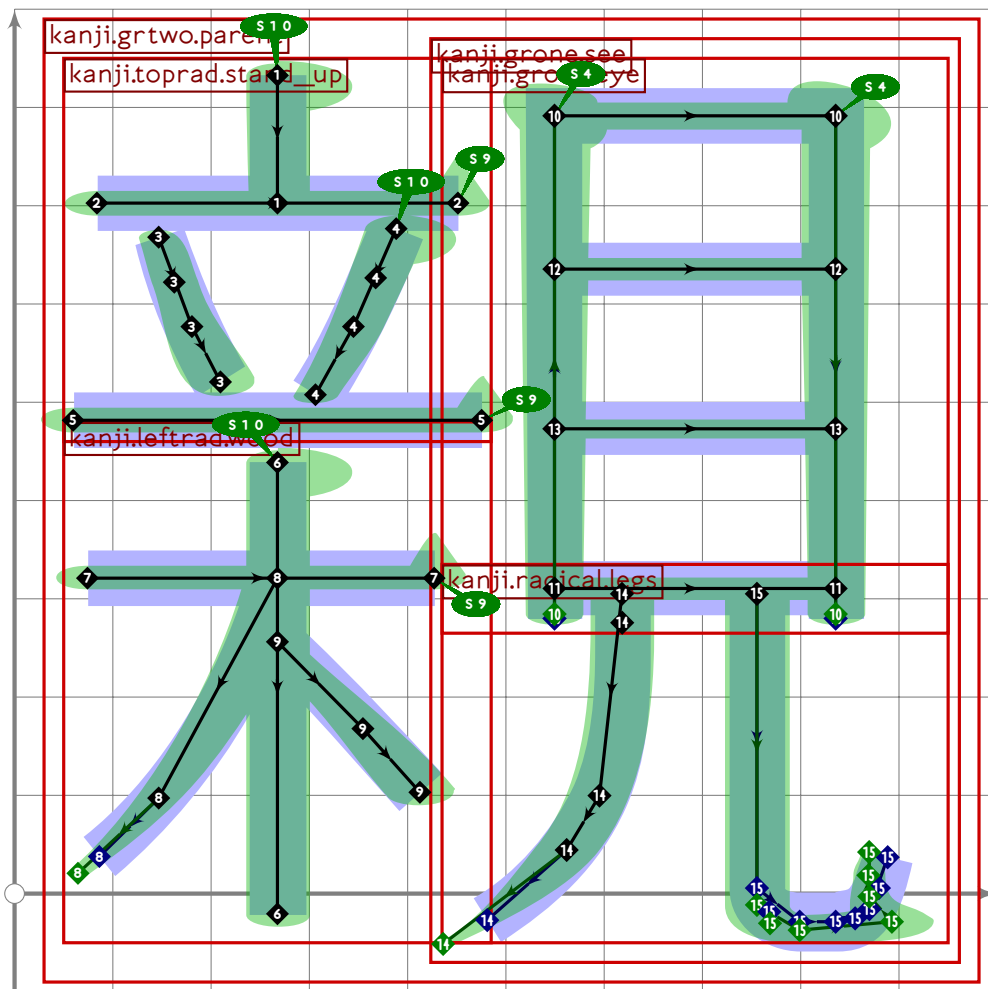
```

870
871 vardef kanji.grtwo.origin =
872   push_pbox_toexpand("kanji.grtwo.origin");
873   build_kanji.tb(520,110)
874     (kanji.grone.two)
875     (kanji.radical.legs);
876   expand_pbox;
877 enddef;

```

U+89AA  
tsuku.uni89AA

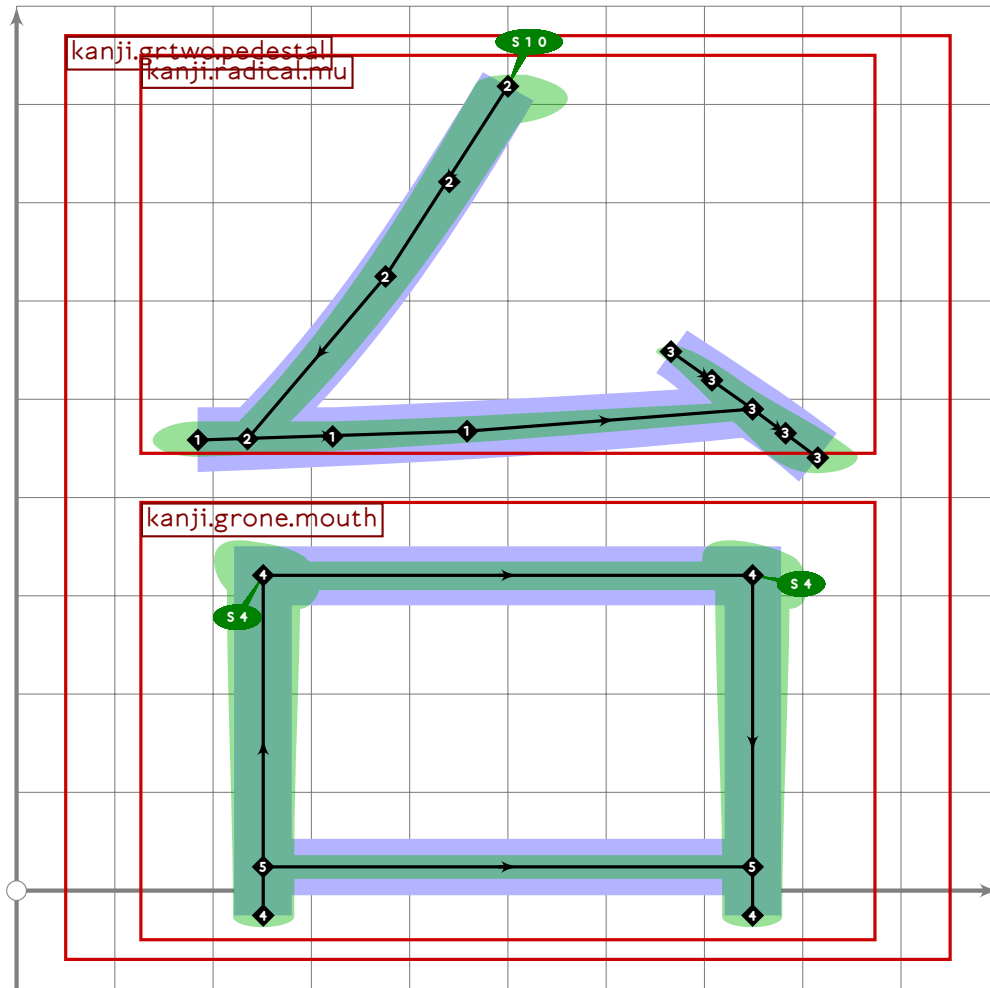
TWO



```

878
879 vardef kanji.grtwo.parent =
880   push_pbox_toexpand("kanji.grtwo.parent");
881   build_kanji.level(build_kanji.lr(460,50)
882     (build_kanji.tb(470,20)
883       (kanji.toprad.stand_up)
884       (kanji.leftrad.wood))
885     (kanji.grone.see));
886   expand_pbox;
887 enddef;

```



TWO

```

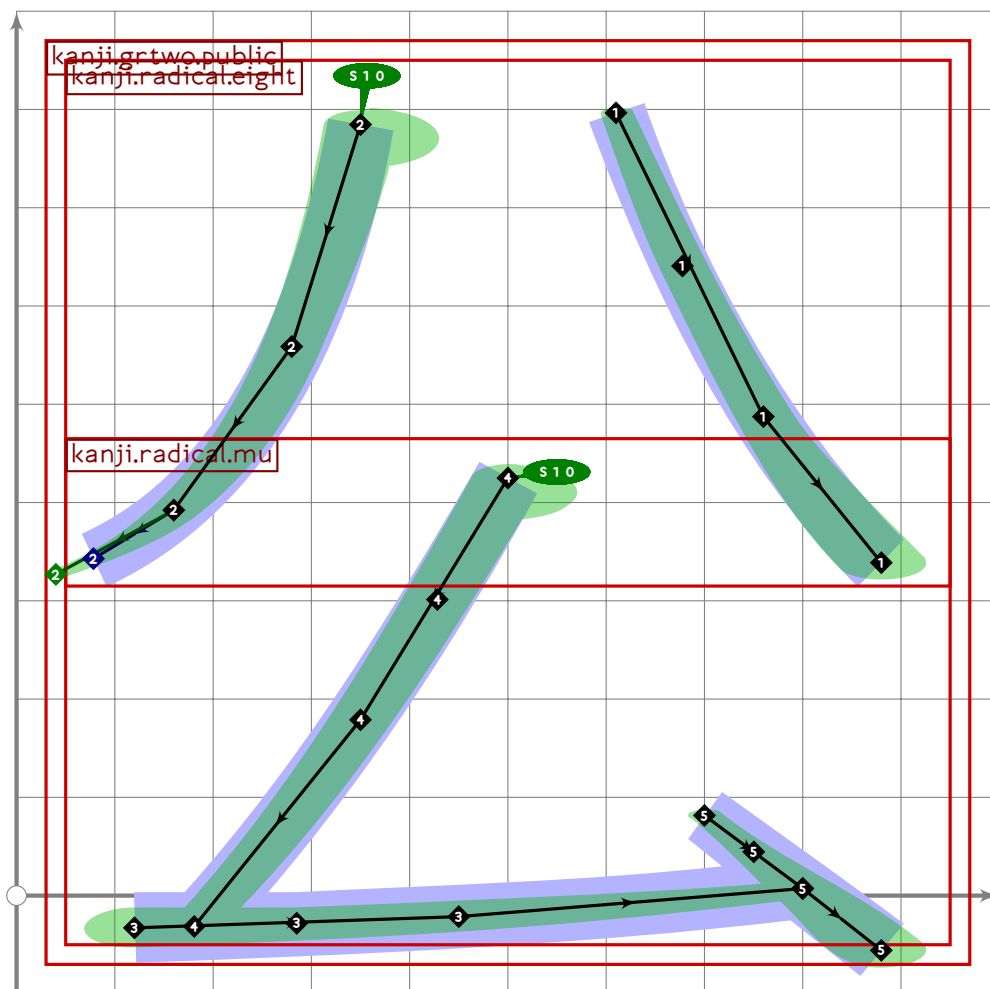
888
889 vardef kanji.grtwo.pedestal =
890   push_pbox_toexpand("kanji.grtwo.pedestal");
891   build_kanji.sscale(xscaled 0.83)(
892     build_kanji.level(build_kanji.tb(420;50)
893       (kanji.radical.mu)
894       (kanji.grone.mouth)));
895   expand_pbox;
896 enddef;

```



U+516C  
tsuku.uni516C

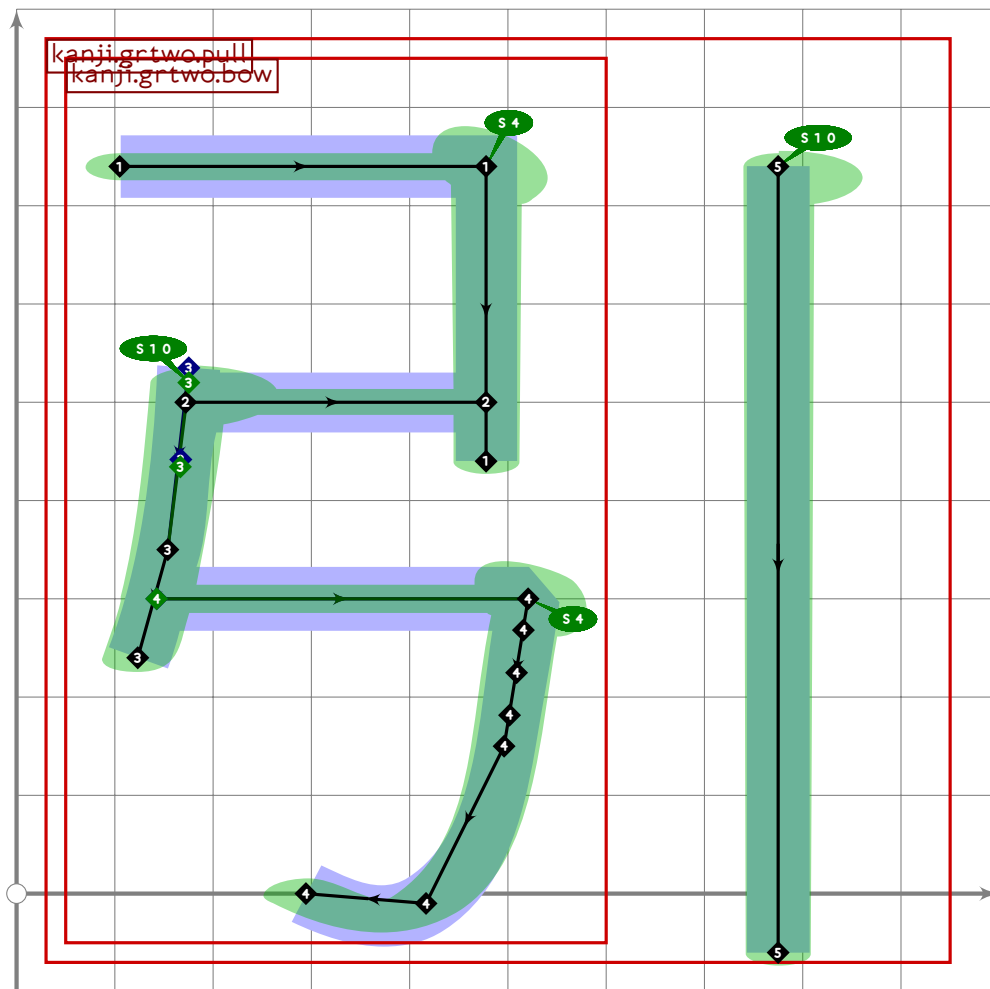
TWO



```

897
898 vardef kanji.grtwo.public =
899   push_pbox_toexpand("kanji.grtwo.public");
900   build_kanji.level(build_kanji.tb(390,150)
901     (kanji.radical.eight)
902     (kanji.radical.mu));
903   expand_pbox;
904 enddef;

```



TWO

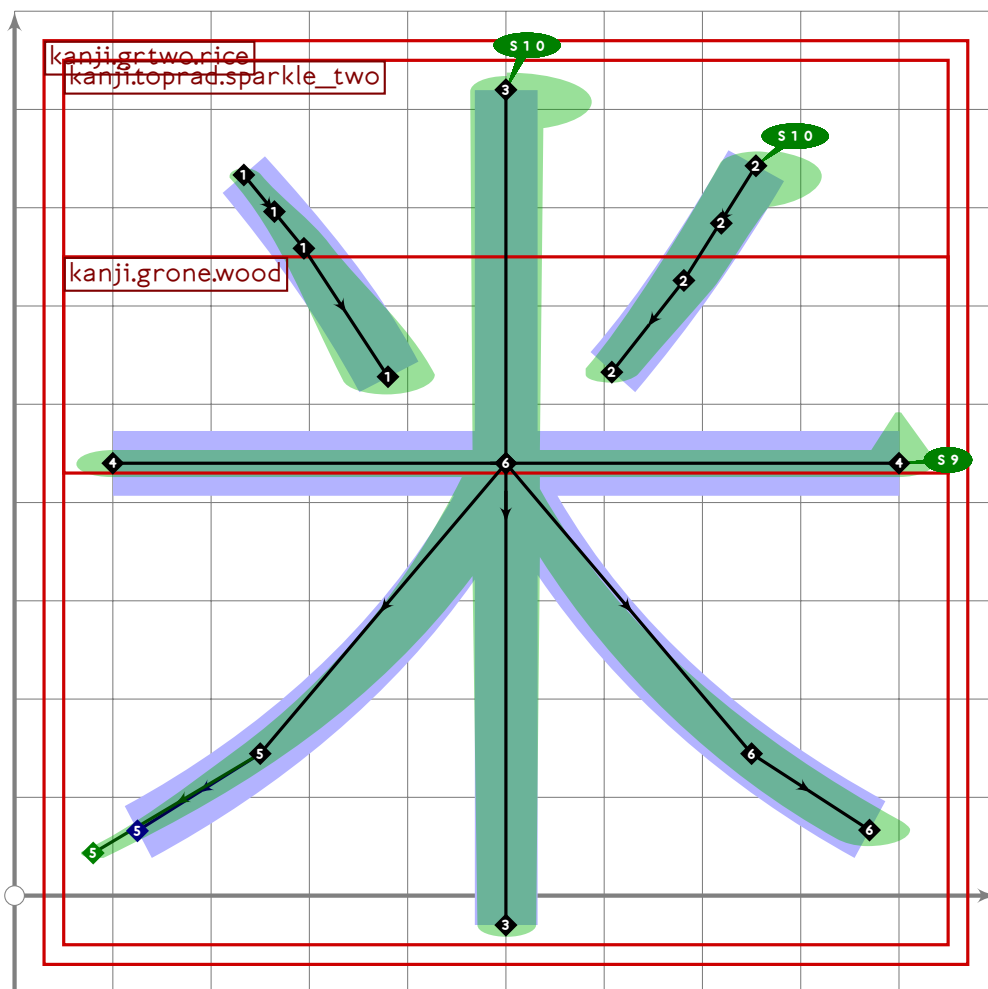
```

905
906 vardef kanji.grtwo.pull =
907   push_pbox_toexpand("kanji.grtwo.pull");
908   build_kanji.level(build_kanji.lr(600,0)
909     (kanji.grtwo.bow)
910     (push_stroke((500,740)-(500,-60),(1.6,1.6)-(1.5,1.5));
911       set_boserif(0,0,10);
912     ));
913   expand_pbox;
914 enddef;

```

U+7C73  
tsuku.uni7C73

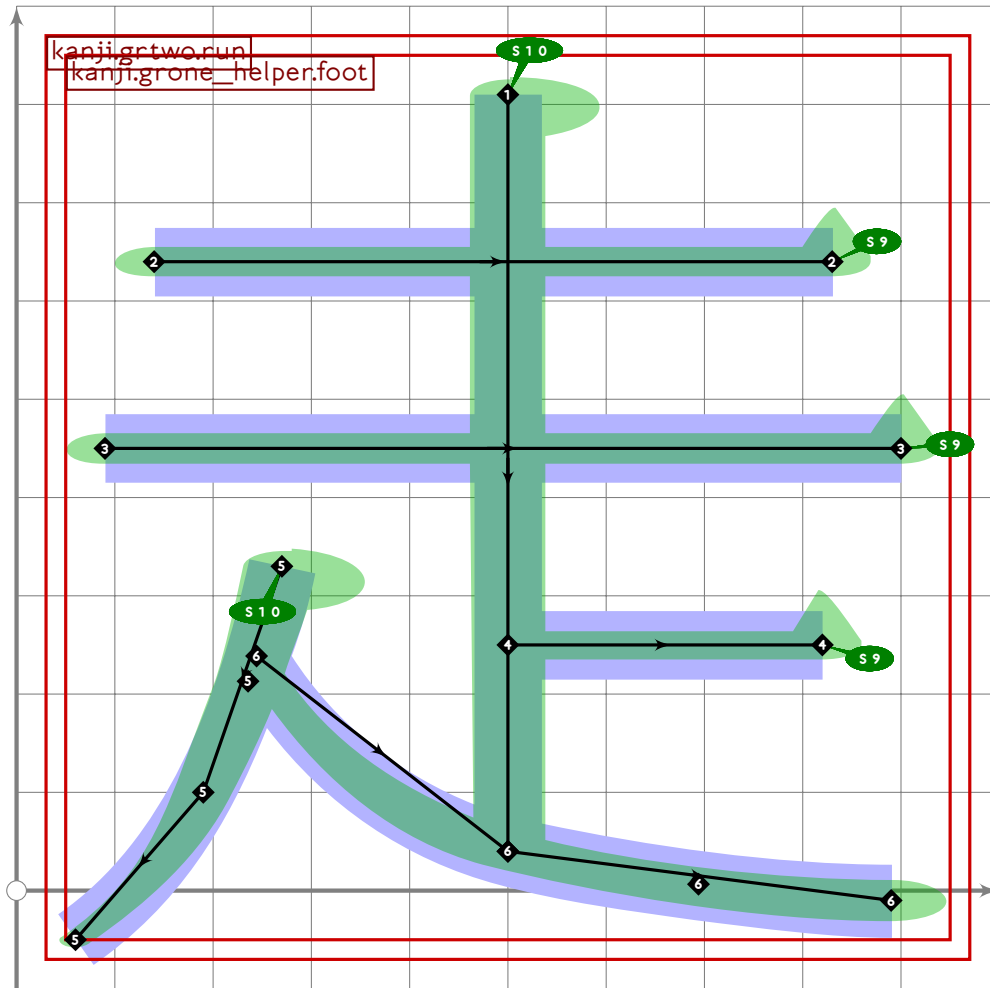
TWO



```

915
916 vardef kanji.grtwo.rice =
917   push_pbox_toexpand("kanji.grtwo.rice");
918   build_kanji.level(build_kanji.tb(540,220)
919     (build_kanji.spread_legs(-200)(kanji.toprad.sparkle_two))
920     (kanji.grone.wood));
921   replace_strokep(-3)((500,820)-(500,-30));
922   replace_strokeq(-3)((1.6,1.6)-(14,14));
923   expand_pbox;
924 enddef;

```



TWO

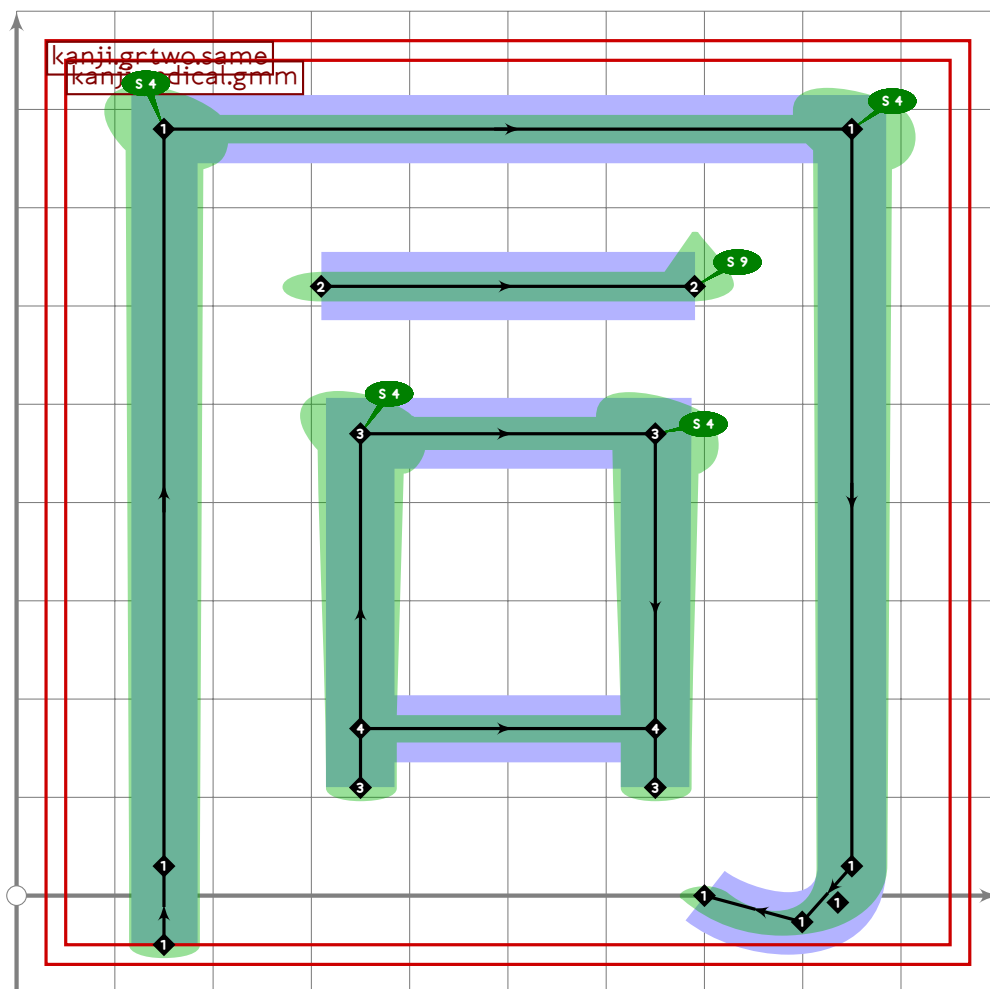
```

925
926 vardef kanji.grtwo.run =
927   push_pbox_toexpand("kanji.grtwo.run");
928   push_stroke((500,810)–(500,40),(1.6,1.6)–(1.5,1.5));
929   set_boserif(0,0,10);
930   push_stroke((140,640)–(830,640),(1.6,1.6)–(1.6,1.6));
931   set_boserif(0,1,9);
932   push_stroke((90,450)–(900,450),(1.6,1.6)–(1.6,1.6));
933   set_boserif(0,1,9);
934   push_stroke((500,250)–(820,250),(1.5,1.5)–(1.6,1.6));
935   set_boserif(0,1,9);
936   kanji.grone_helper.foot;
937   expand_pbox;
938 enddef;

```

U+540C  
tsuku.uni540C

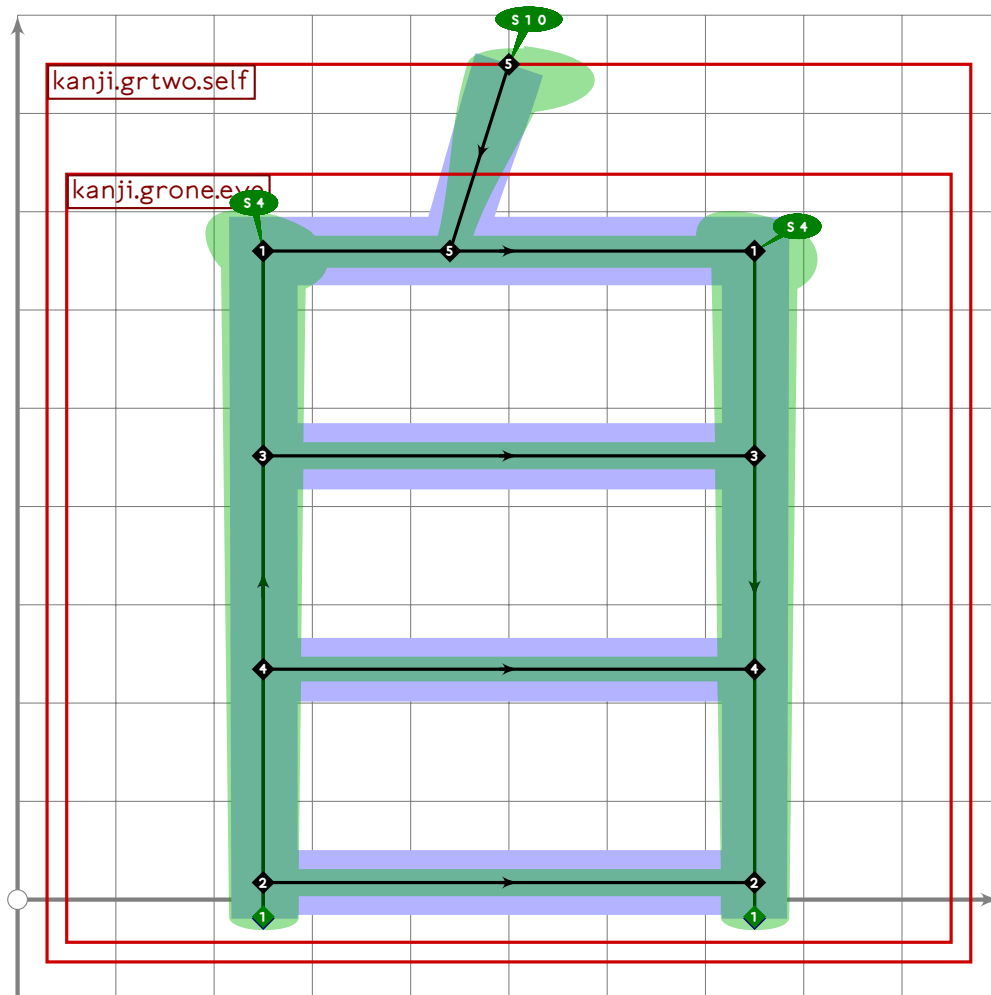
TWO



```

939
940 vardef kanji.grtwo.same =
941   push_pbox_toexpand("kanji.grtwo.same");
942   kanji.radical.gmm;
943   push_stroke((310,620)–(690,620),(1.6,1.6)–(1.6,1.6));
944   set_boserif(0,1,9);
945   build_kanji.box((350,470),(650,170));
946   expand_pbox;
947 enddef;

```



TWO

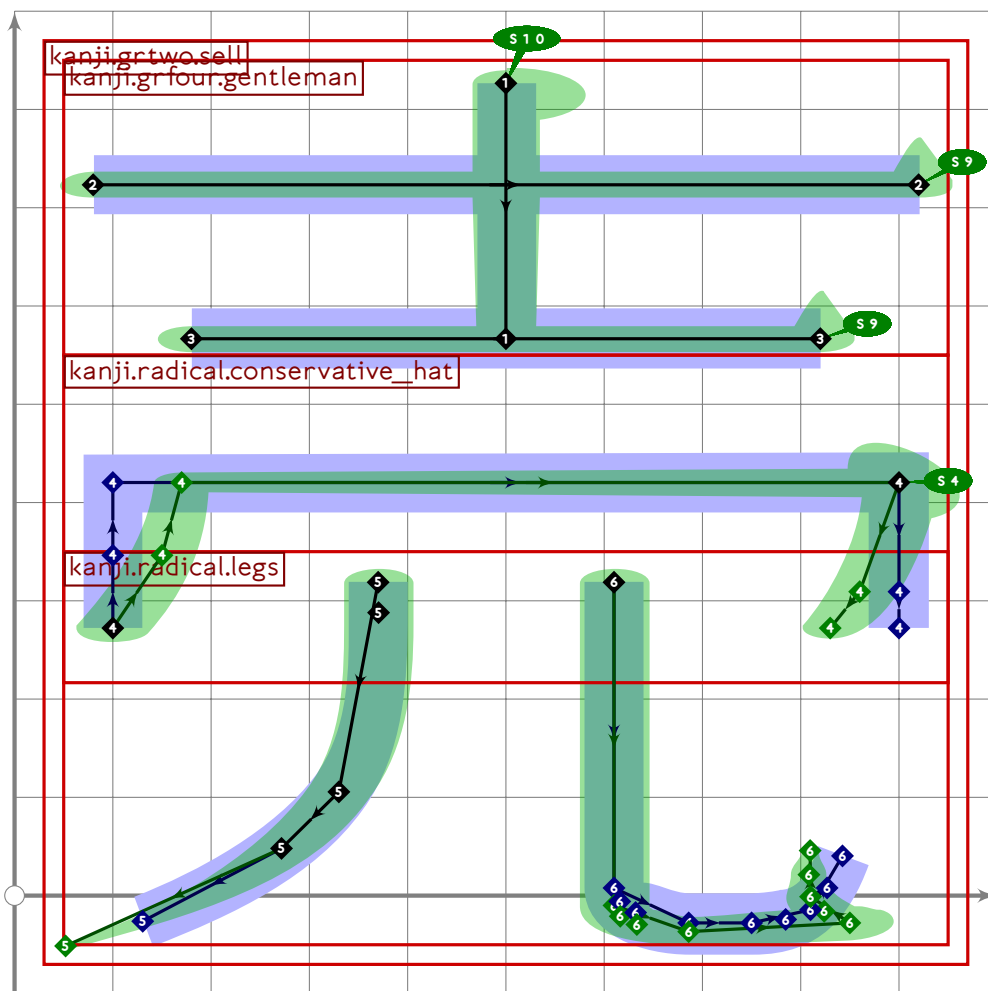
```

948
949 vardef kanji.grtwo.self =
950   push_pbox_toexpand("kanji.grtwo.self");
951   build_kanji.attach_tick(660)(kanji.grone.eye);
952   expand_pbox;
953 enddef;

```

U+58F2  
tsuku.uni58F2

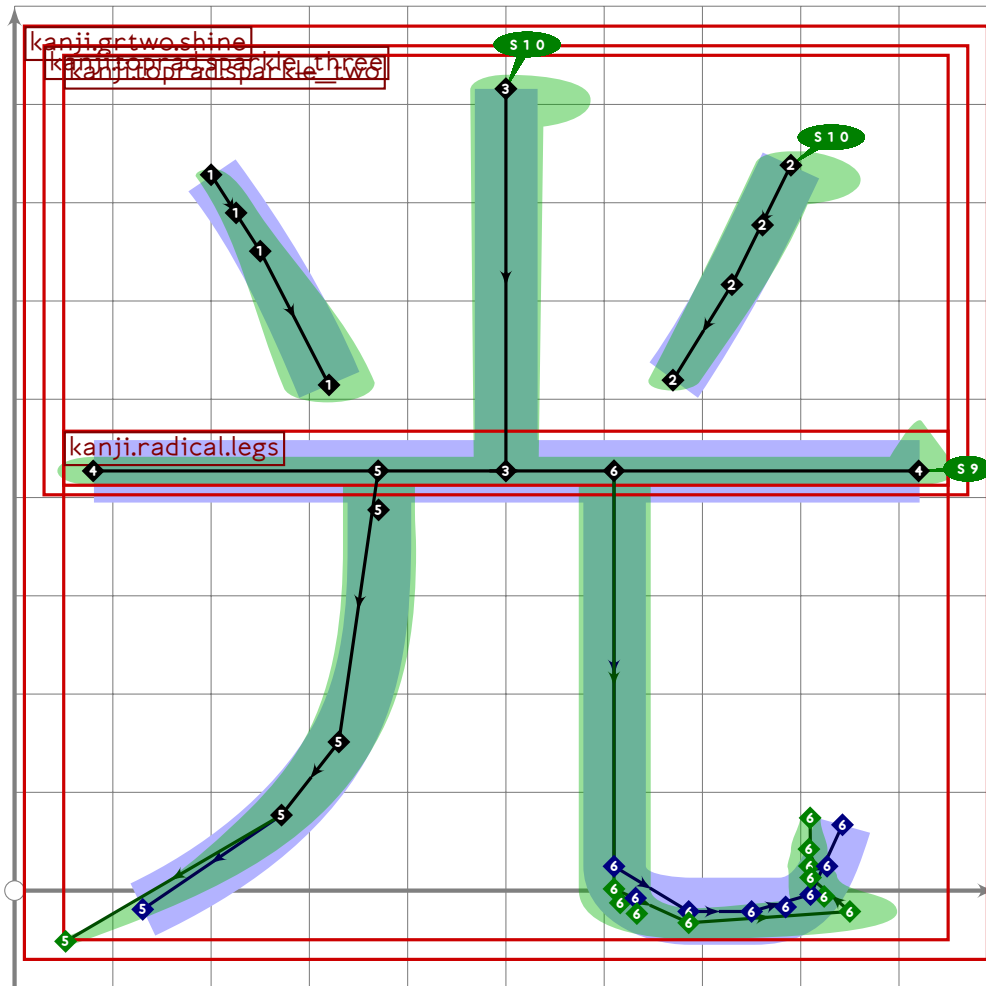
TWO



```

954
955 vardef kanji.grtwo.sell =
956   push_pbox_toexpand("kanji.grtwo.sell");
957   build_kanji.level(build_kanji.tb(550,0)
958     (kanji.grfour.gentleman)
959     (build_kanji.tb(450,200)
960       (kanji.radical.conservative_hat)
961       (kanji.radical.legs)));
962   expand_pbox;
963 enddef;

```



TWO

```

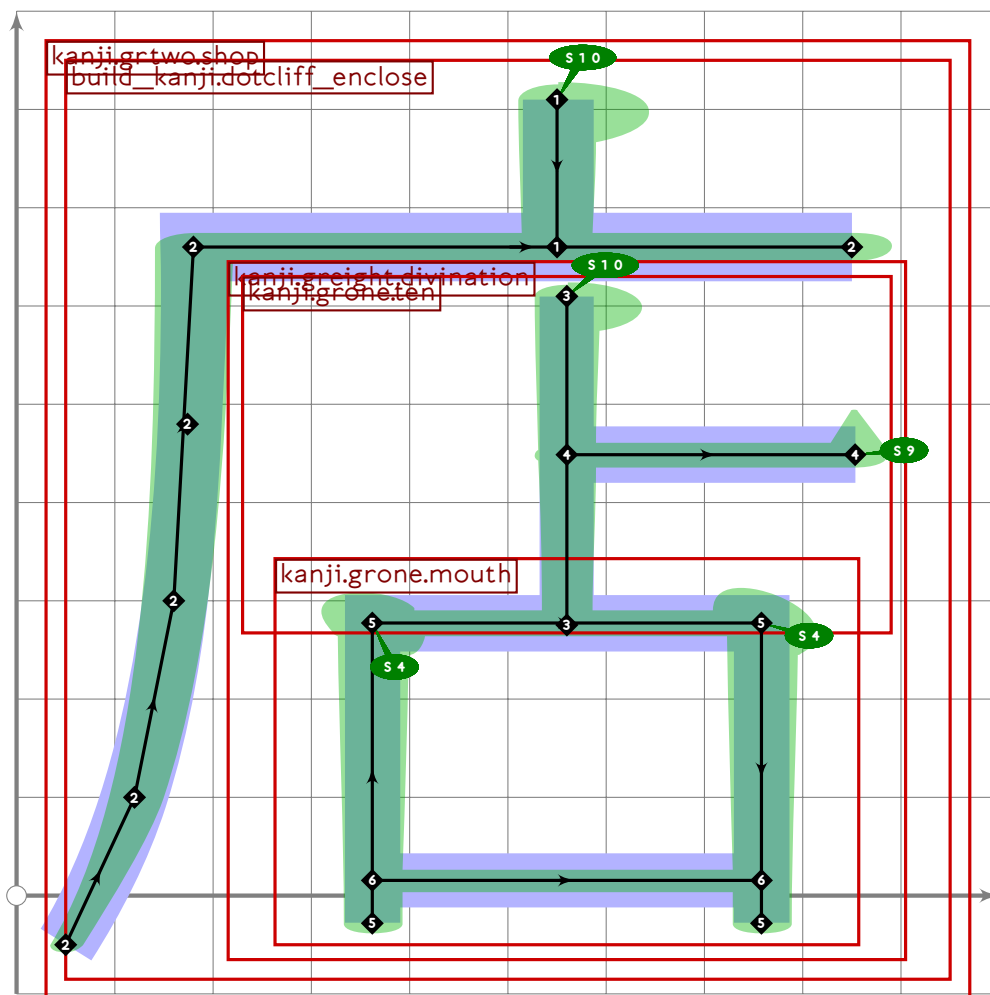
964
965 vardef kanji.grtwo.shine =
966   push_pbox_toexpand("kanji.grtwo.shine");
967   build_kanji.level(build_kanji.tb(440,55)
968     (kanji.toprad.sparkle_three;
969       push_stroke((80,-20)-(920,-20),(1.6,1.6)-(1.6,1.6));
970       set_boserif(0,1,9);
971     )
972     (kanji.radical.legs));
973   expand_pbox;
974 enddef;

```



U+5E97  
tsuku.uni5E97

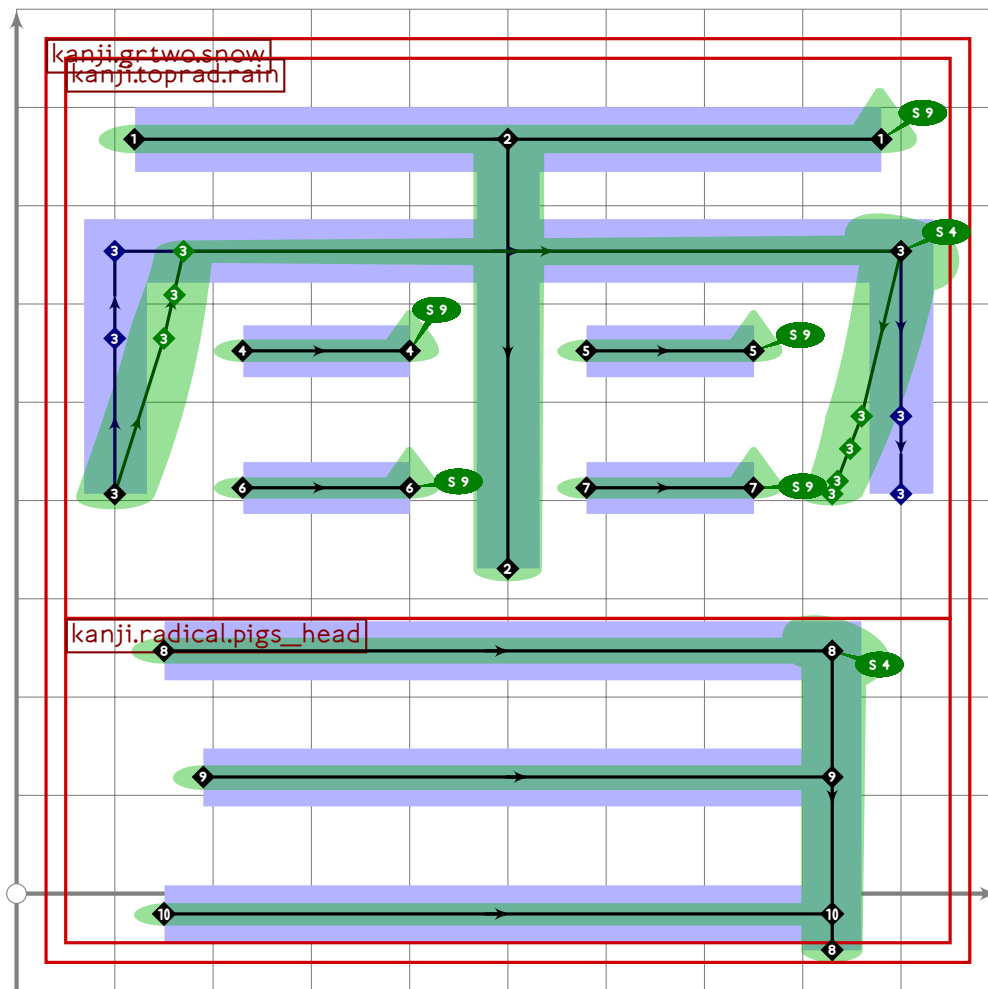
TWO



```

975
976 vardef kanji.grtwo.shop =
977   push_pbox_toexpand("kanji.grtwo.shop");
978   build_kanji.dotcliff_enclose(kanji.greight.divination);
979   expand_pbox;
980 enddef;

```



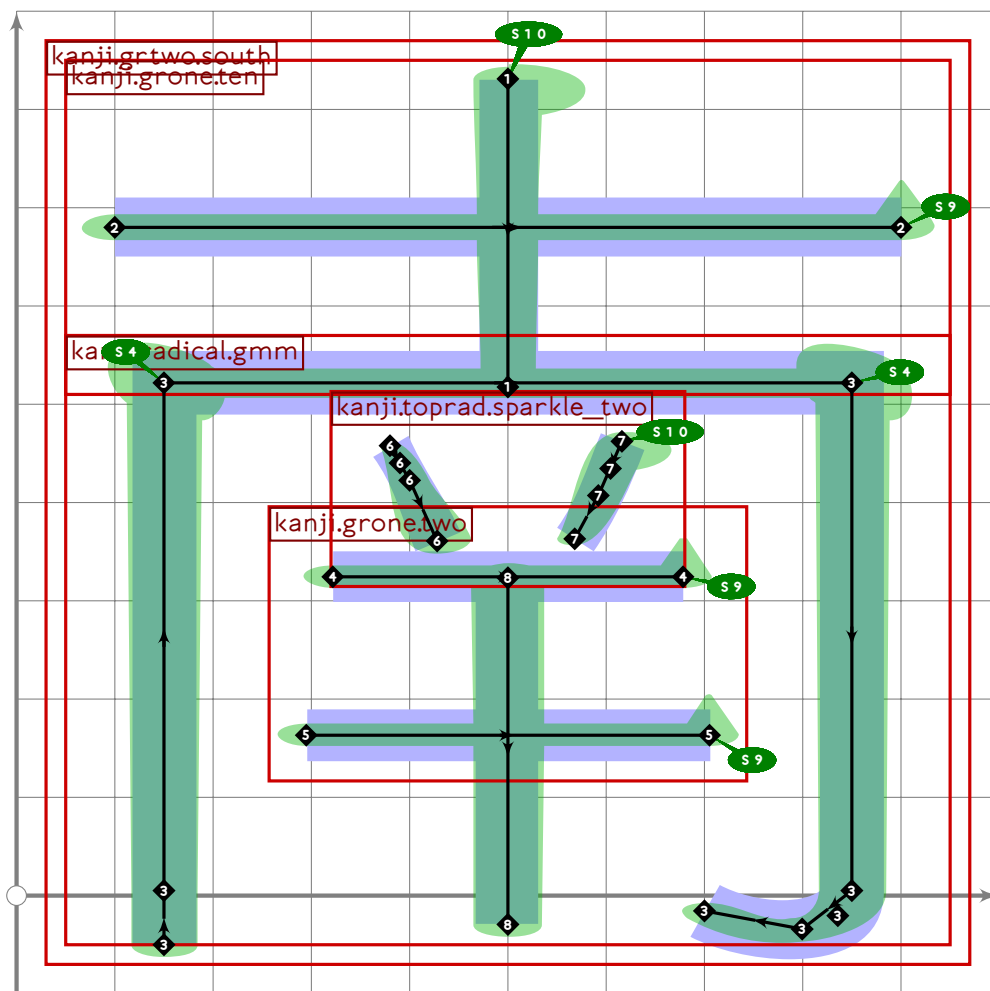
TWO

```

981
982 vardef kanji.grtwo.snow =
983   push_pbox_toexpand("kanji.grtwo.snow");
984   build_kanji.tb(280,0)
985     (kanji.toprad.rain)
986     (kanji.radical.pigs_head);
987   expand_pbox;
988 enddef;

```

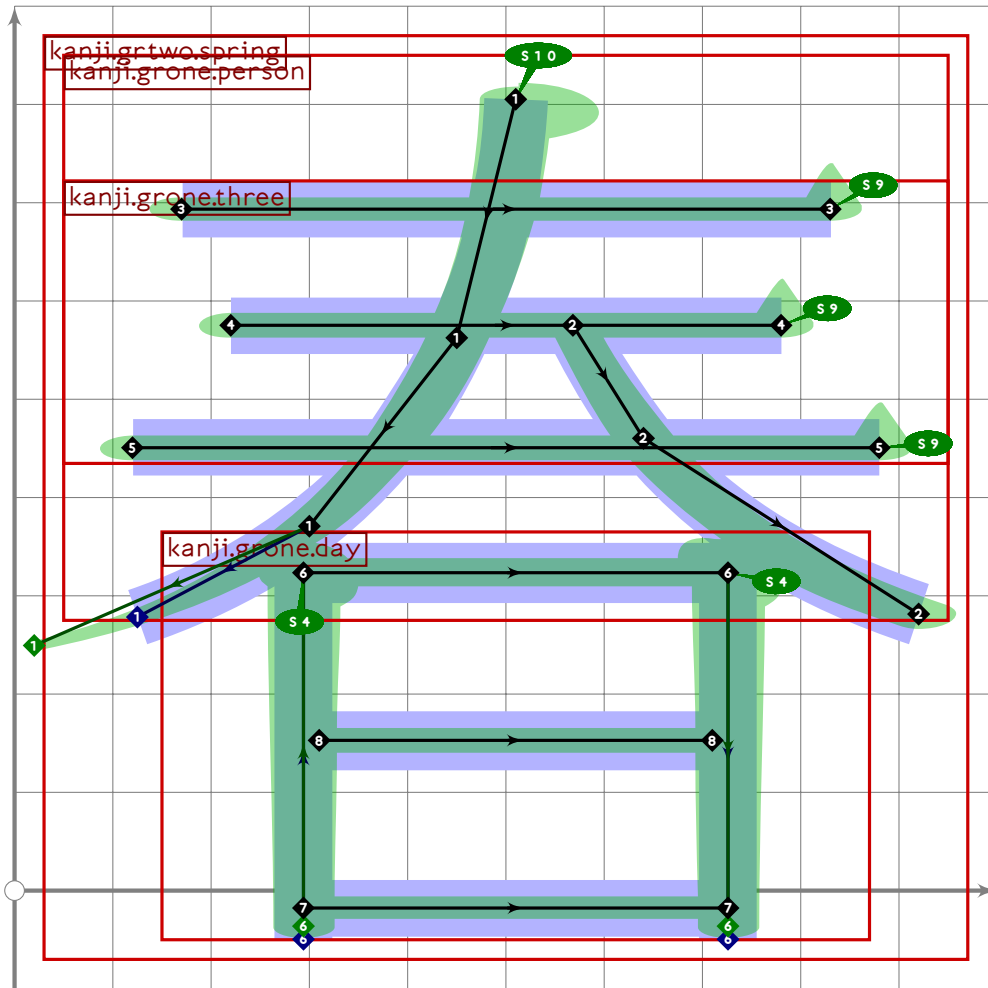
TWO



```

989
990 vardef kanji.grtwo.south =
991   push_pbox_toexpand("kanji.grtwo.south");
992   build_kanji.tb(540,60)
993     (kanji.grone.ten)
994     (kanji.radical.gmm;
995       build_kanji.sscale(xyscaled (0.54,0.45))(kanji.grone.two);
996       build_kanji.sscale(xyscaled (0.4,0.32) shifted (0,230))
997         (kanji.toprad.sparkle_two);
998       push_stroke((500,492)-(500,-20),(1.6,1.6)-(1.5,1.5));
999     );
1000   expand_pbox;
1001 enddef;

```



TWO

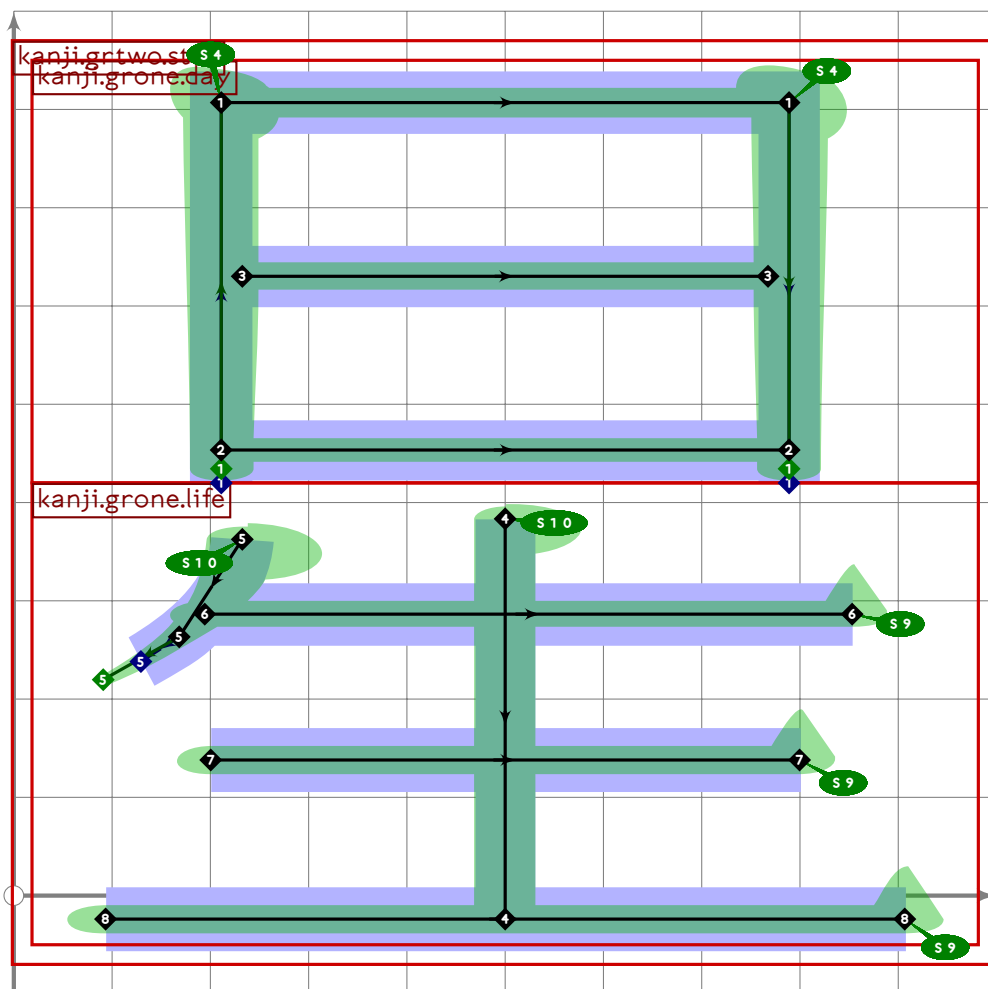
```

1002
1003 vardef kanji.grtwo.spring =
1004   push_pbox_toexpand("kanji.grtwo.spring");
1005   build_kanji.tb(320,90)
1006   (kanji.grone.person;
1007     build_kanji.sscale(xyscaled (1,0.5) shifted (0,30))
1008     (kanji.grone.three);
1009     replace_strokep(-3)
1010     (subpath (xpart (oldp intersectiontimes get_strokep(-1)),infinity)
1011       of oldp))
1012   (build_kanji.sscale(xscaled 0.8 shifted (10,0))
1013     (kanji.grone.day));
1014   expand_pbox;
1015 enddef;

```

U+661F  
tsuku.uni661F

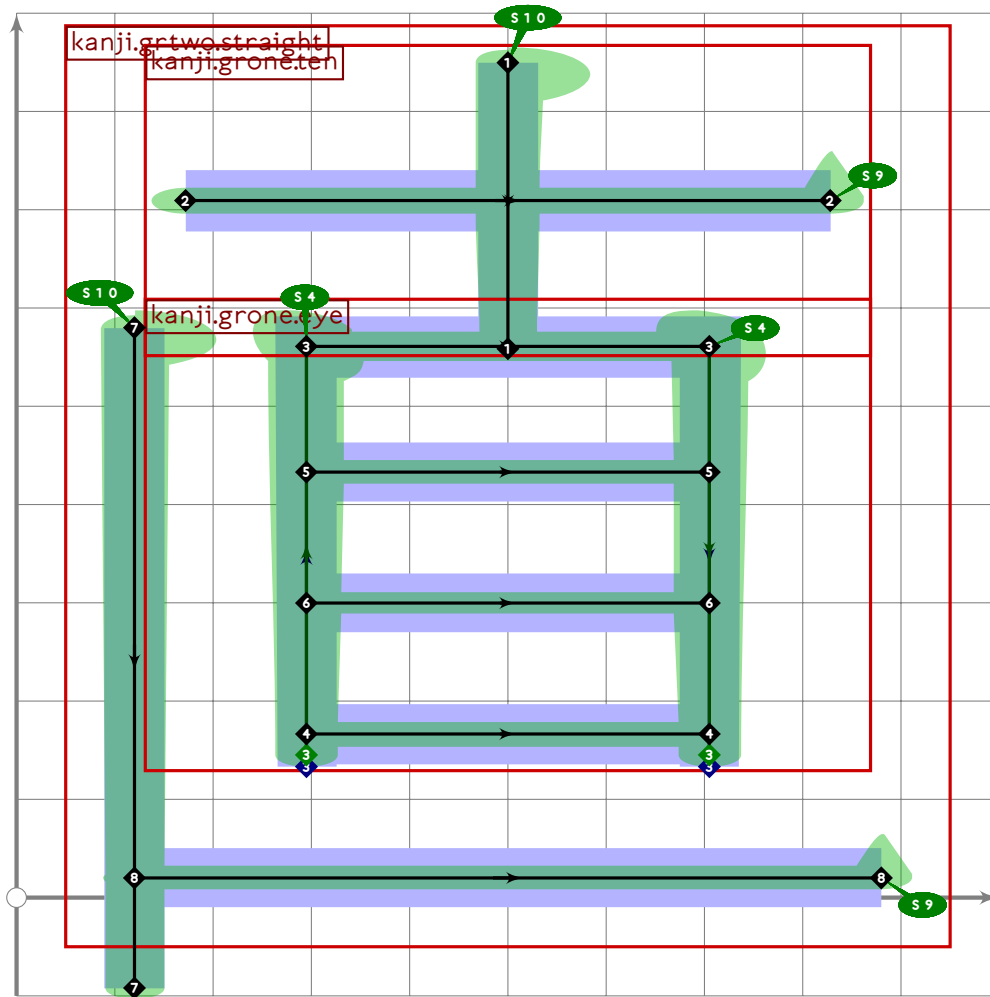
TWO



```

1016
1017 vardef kanji.grtwo.star =
1018   push_pbox_toexpand("kanji.grtwo.star");
1019   build_kanji.sscale(xscaled 1.07)(build_kanji.tb(420,0)
1020     (kanji.grone.day)
1021     (kanji.grone.life));
1022   expand_pbox;
1023 enddef;

```



TWO

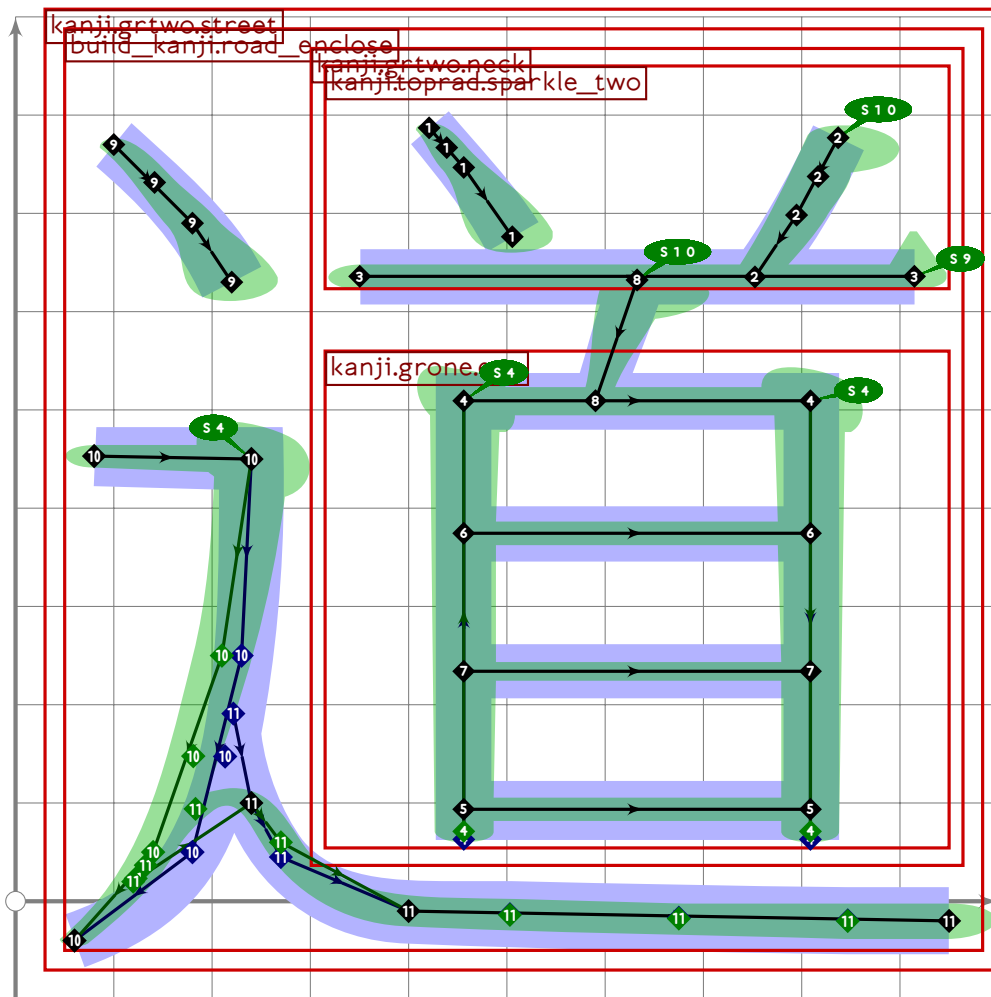
```

1024
1025 vardef kanji.grtwo.straight =
1026   push_pbox_toexpand("kanji.grtwo.straight");
1027   build_kanji.level(
1028     build_kanji.sscale(scaled 0.82 shifted (0,100))
1029     (build_kanji.tb(500,70)
1030       (kanji.grone.ten)
1031       (kanji.grone.ey));
1032   build_kanji.cup((120,580),(880,20));
1033   set_bosize(-1,0);
1034   set_boserif(0,1,9);
1035 );
1036 expand_pbox;
1037 enddef;

```

U+9053  
tsuku.uni9053

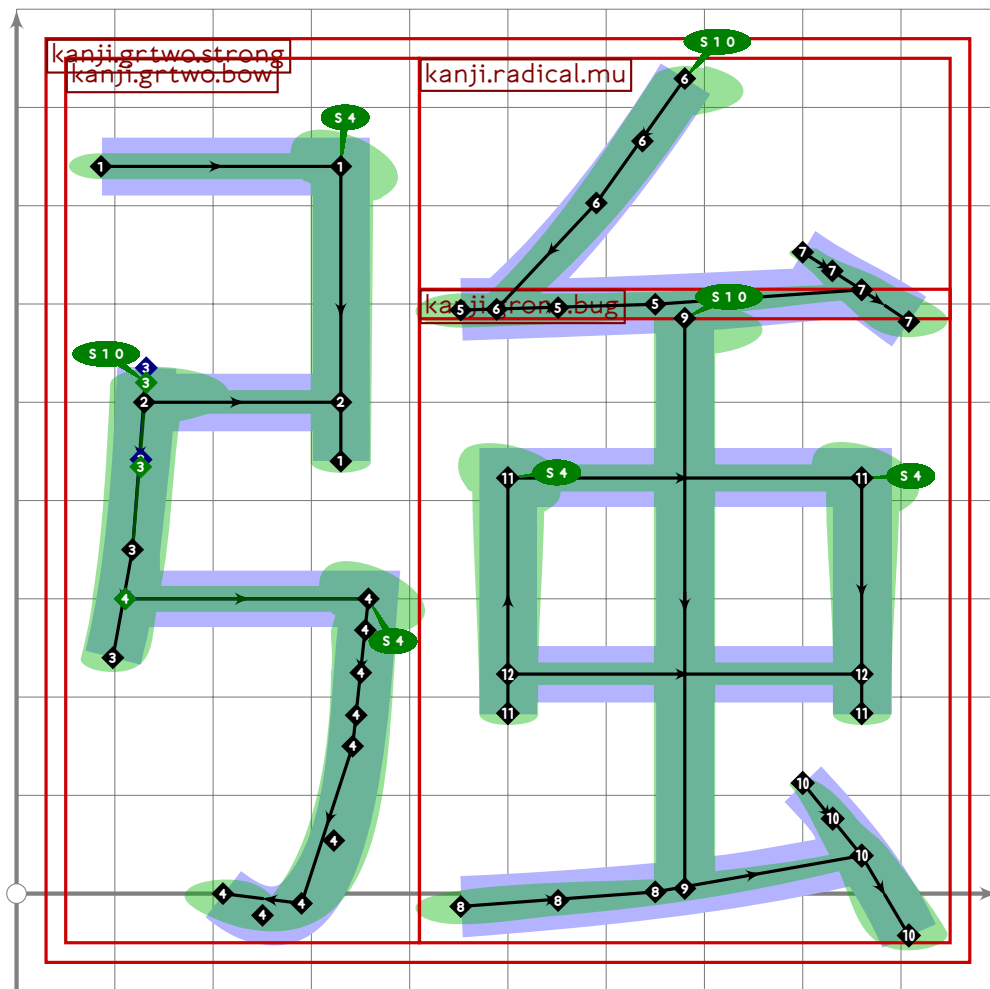
TWO



```

1038
1039 vardef kanji.grtwo.street =
1040   push_pbox_toexpand("kanji.grtwo.street");
1041   build_kanji.road_enclose(kanji.grtwo.neck);
1042   expand_pbox;
1043 enddef;

```



TWO

```

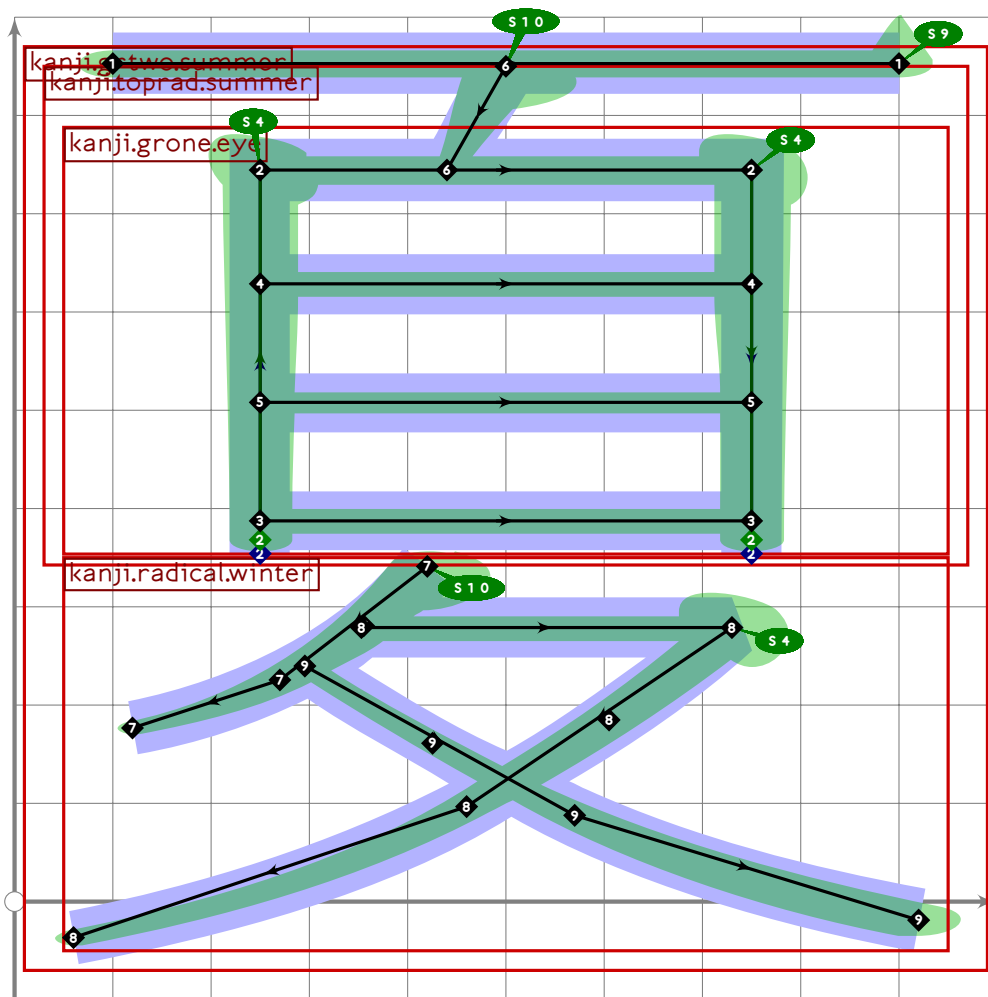
1044
1045 vardef kanji.grtwo.strong =
1046   push_pbox_toexpand("kanji.grtwo.strong");
1047   build_kanji.level(build_kanji.lr(410,0)
1048     (kanji.grtwo.bow)
1049     (build_kanji.tb(600,30)
1050       (kanji.radical.mu)
1051       (kanji.grone.bug)));
1052   expand_pbox;
1053 enddef;

```



U+590F  
tsuku.uni590F

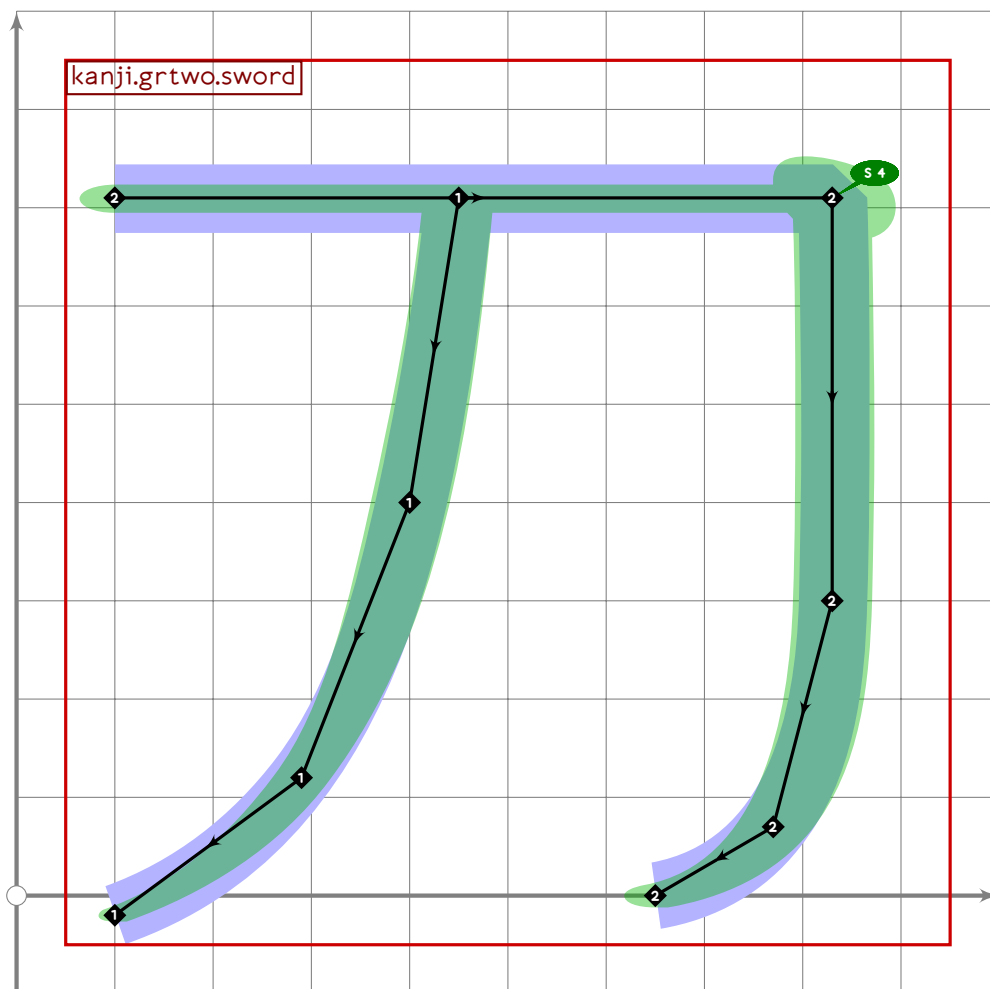
TWO



```

1054
1055 vardef kanji.grtwo.summer =
1056   push_pbox_toexpand("kanji.grtwo.summer");
1057   build_kanji.level(build_kanji.tb(350,0)
1058     (kanji.toprad.summer)
1059     (kanji.radical.winter));
1060   expand_pbox;
1061 enddef;

```



TWO

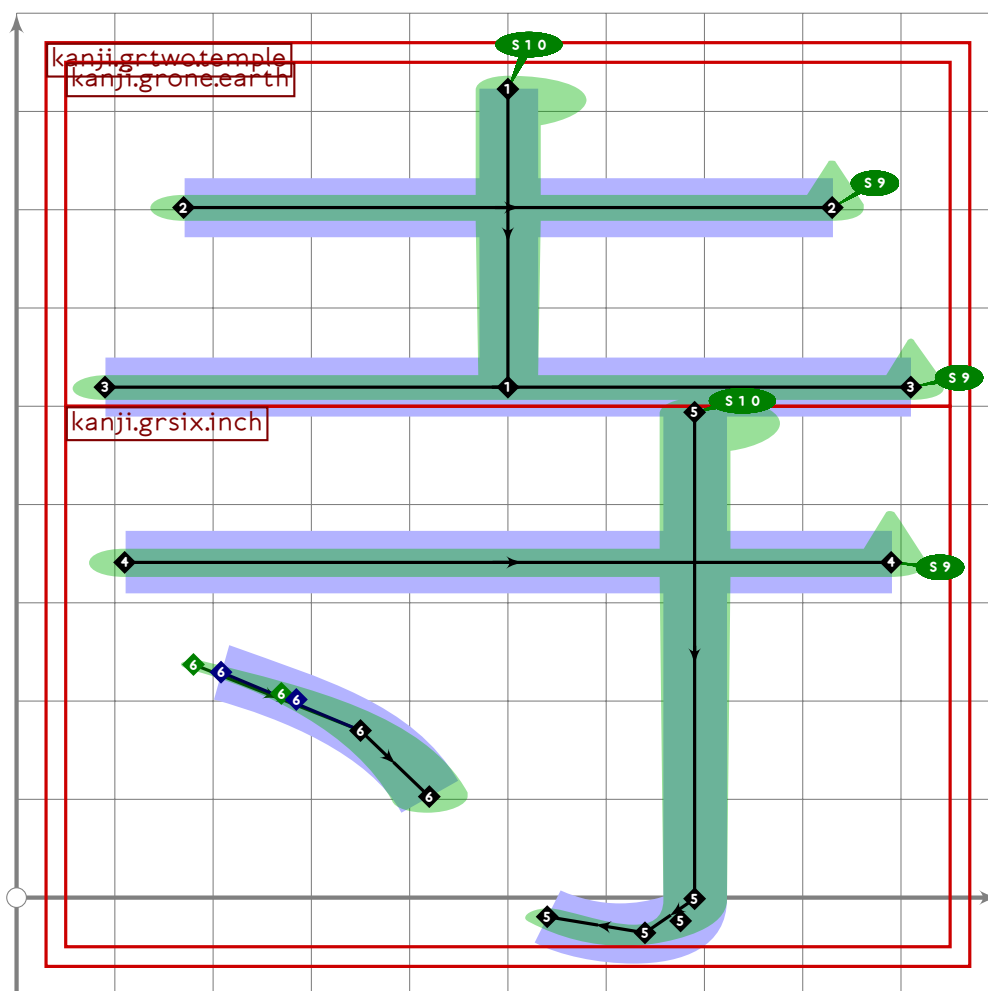
```

1062
1063 vardef kanji.grtwo.sword =
1064   push_pbox_toexpand("kanji.grtwo.sword");
1065   push_stroke((450,710)..(400,400)..(290,120)..(100,-20),
1066     (1.5,1.5)-(1.6,1.6)-(1.3,1.3)-(1,1));
1067   push_stroke((100,710)-(830,710)..tension 1.1..(830,300)..(770,70)..(650,0),
1068     (1.5,1.5)-(1.6,1.6)-(1.6,1.6)-(1.6,1.6)-(1.4,1.4));
1069   set_botip(0,1,0);
1070   set_boserif(0,1,4);
1071   expand_pbox;
1072 enddef;

```

U+5BFA  
tsuku.uni5BFA

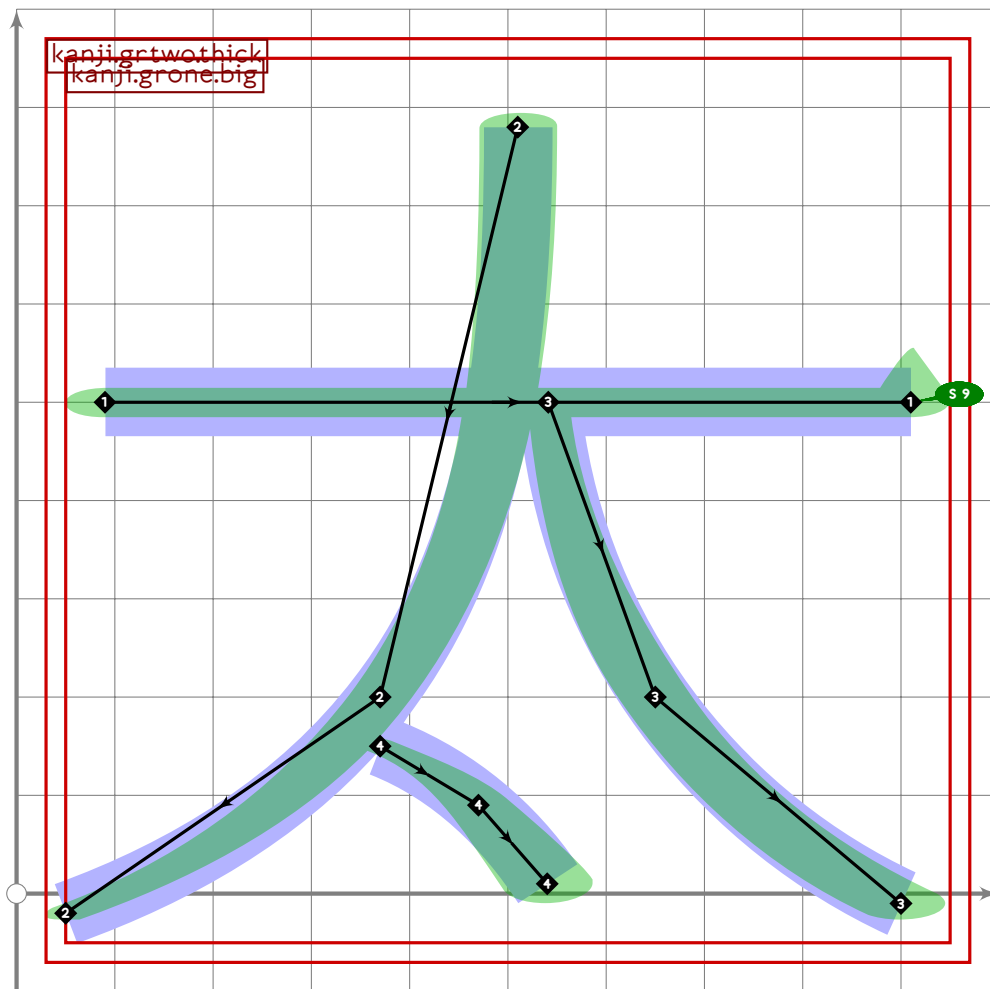
TWO



```

1073
1074 vardef kanji.grtwo.temple =
1075   push_pbox_toexpand("kanji.grtwo.temple");
1076   build_kanji.tb(500,0)
1077     (kanji.grone.earth)
1078     (kanji.grsix.inch;
1079       replace_strokep(-1)((point 0 of oldp)+(0,60))
1080       -(subpath (1,infinity) of oldp)));
1081   expand_pbox;
1082 enddef;

```



TWO

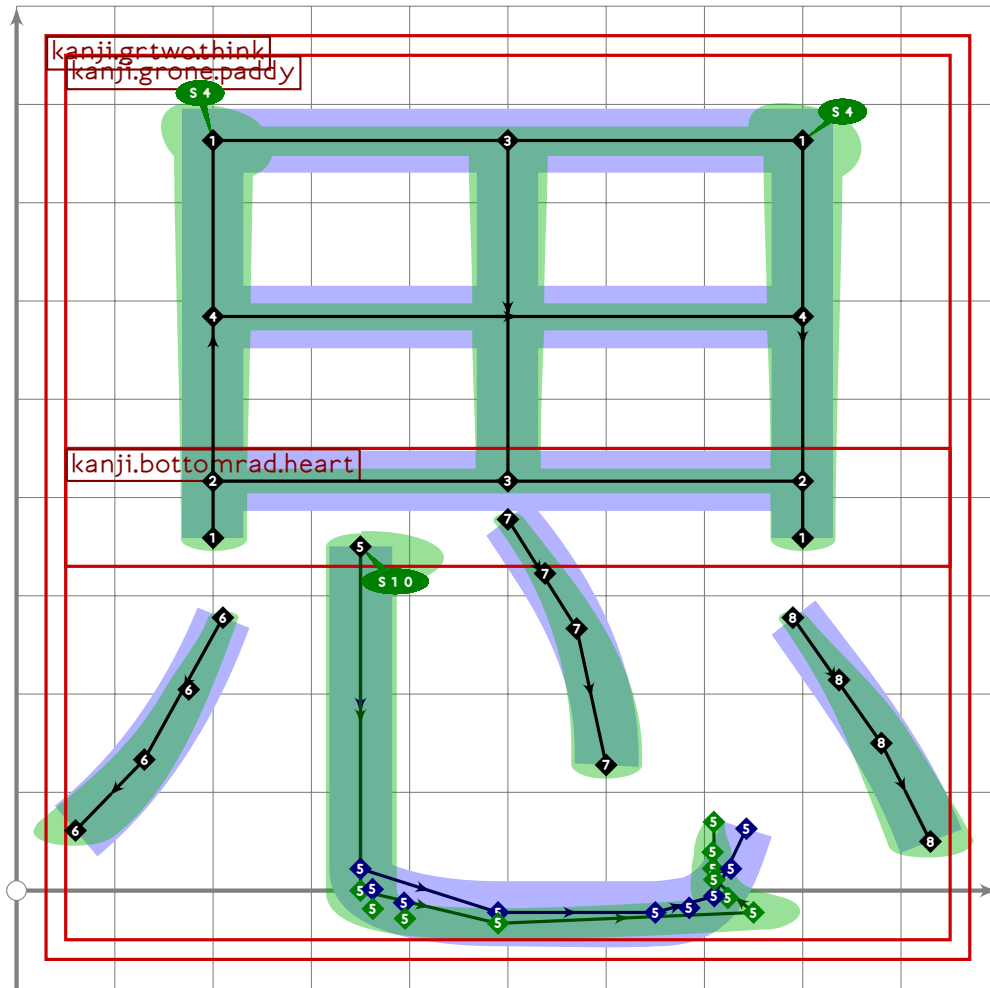
```

1083
1084 vardef kanji.grtwo.thick =
1085   push_pbox_toexpand("kanji.grtwo.thick");
1086   kanji.grone.big;
1087   push_stroke((370,150)..(470,90)..(540,10),
1088     (1,1)–(14,14)–(18,18));
1089   expand_pbox;
1090 enddef;

```

U+601D  
tsuku.uni601D

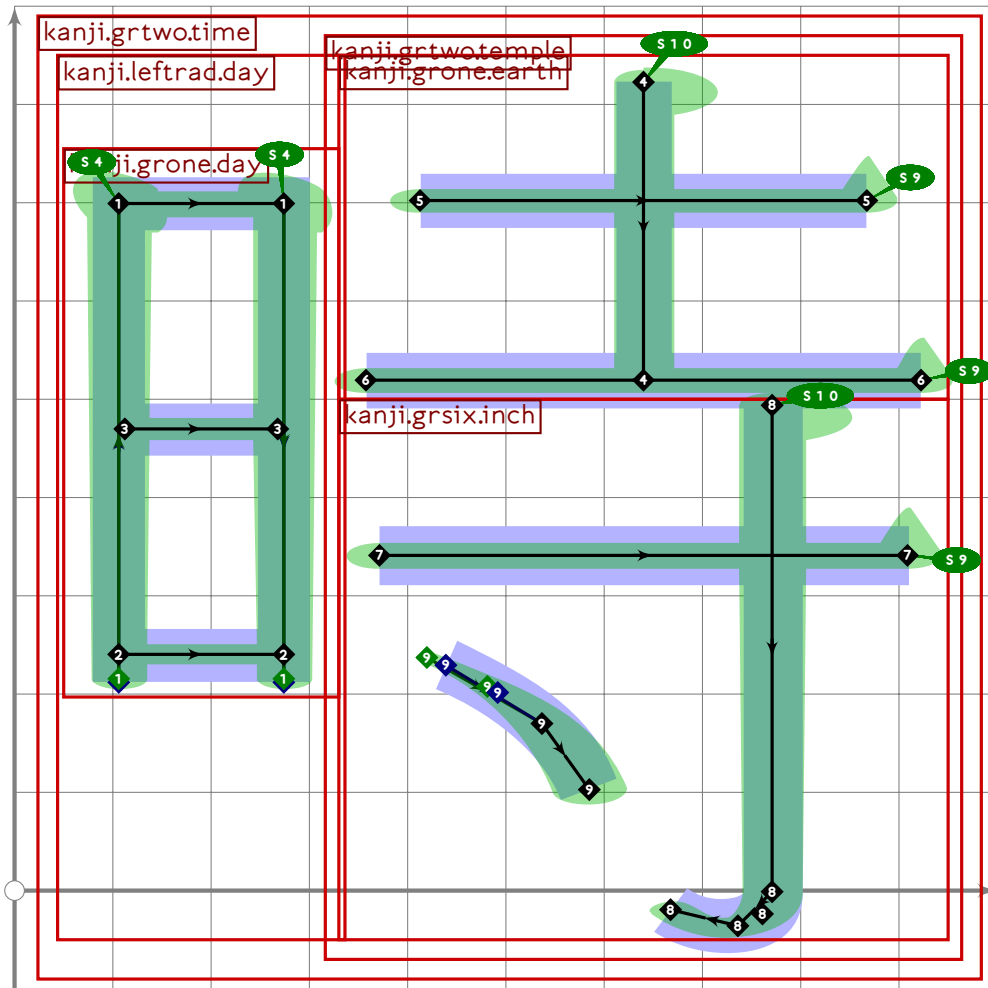
TWO



```

1091
1092 vardef kanji.grtwo.think =
1093   push_pbox_toexpand("kanji.grtwo.think");
1094   build_kanji.level(build_kanji.tb(390,120)
1095     (kanji.grone.paddy)
1096     (kanji.bottomrad.heart));
1097   expand_pbox;
1098 enddef;

```



TWO

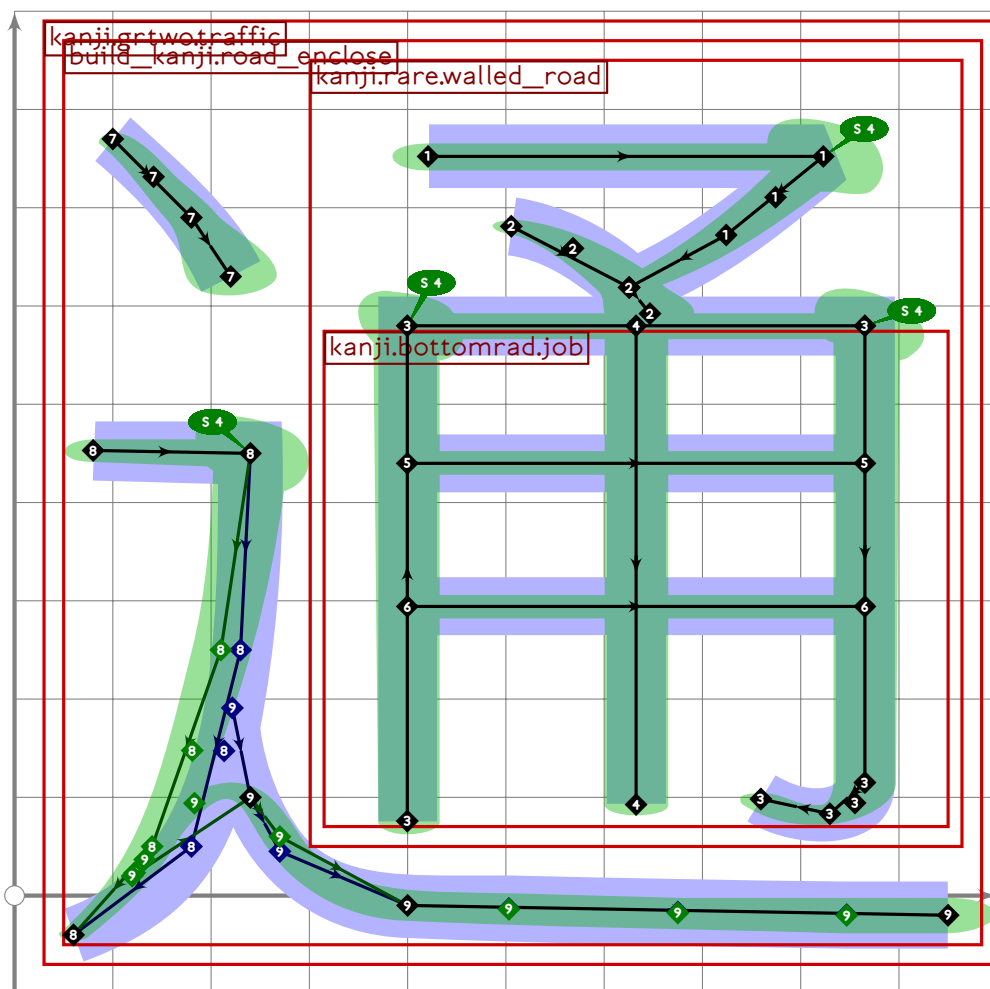
```

1099
1100 vardef kanji.grtwo.time =
1101   push_pbox_toexpand("kanji.grtwo.time");
1102   build_kanji.lr(330,0)
1103     (kanji.leftrad.day)
1104     (kanji.grtwo.temple);
1105   expand_pbox;
1106 enddef;

```

U+901A  
tsuku.uni901A

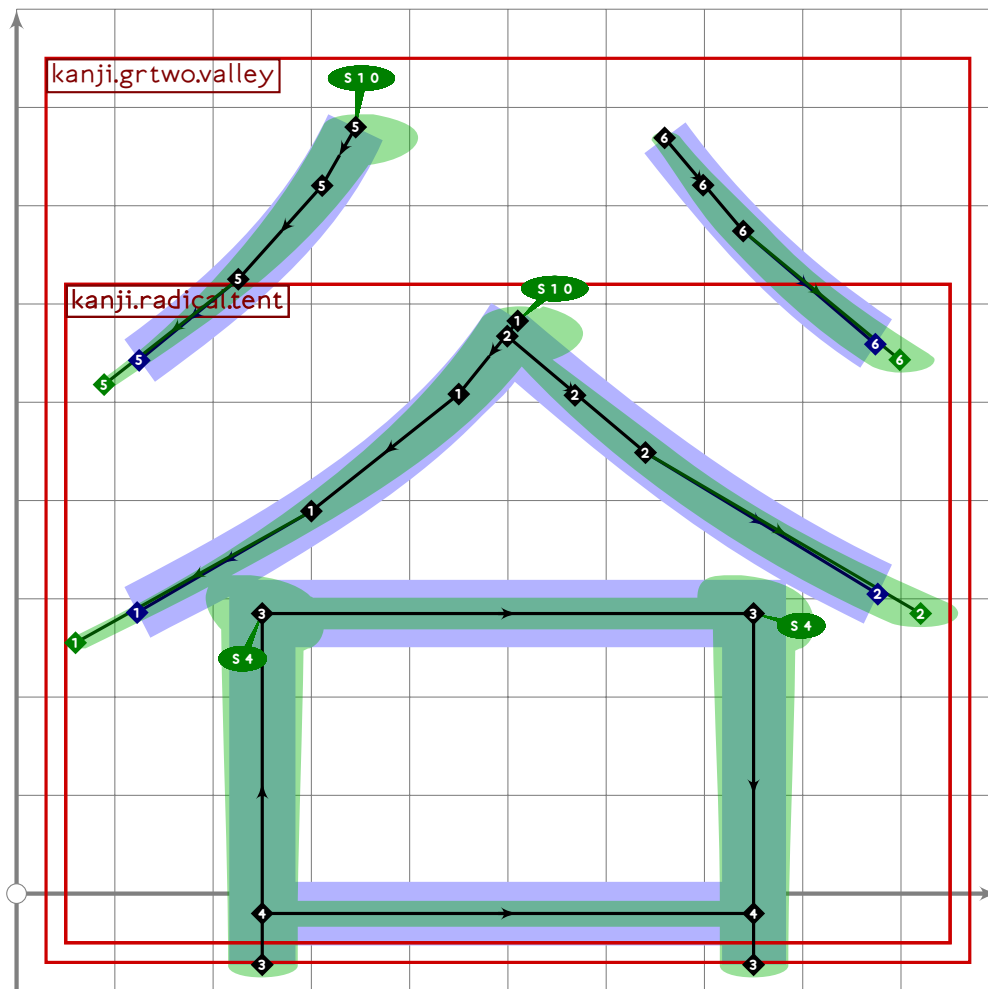
TWO



```

1107
1108 vardef kanji.grtwo.traffic =
1109   push_pbox_toexpand("kanji.grtwo.traffic");
1110   build_kanji.road_enclose(kanji.rare.walled_road);
1111   expand_pbox;
1112 enddef;

```



TWO

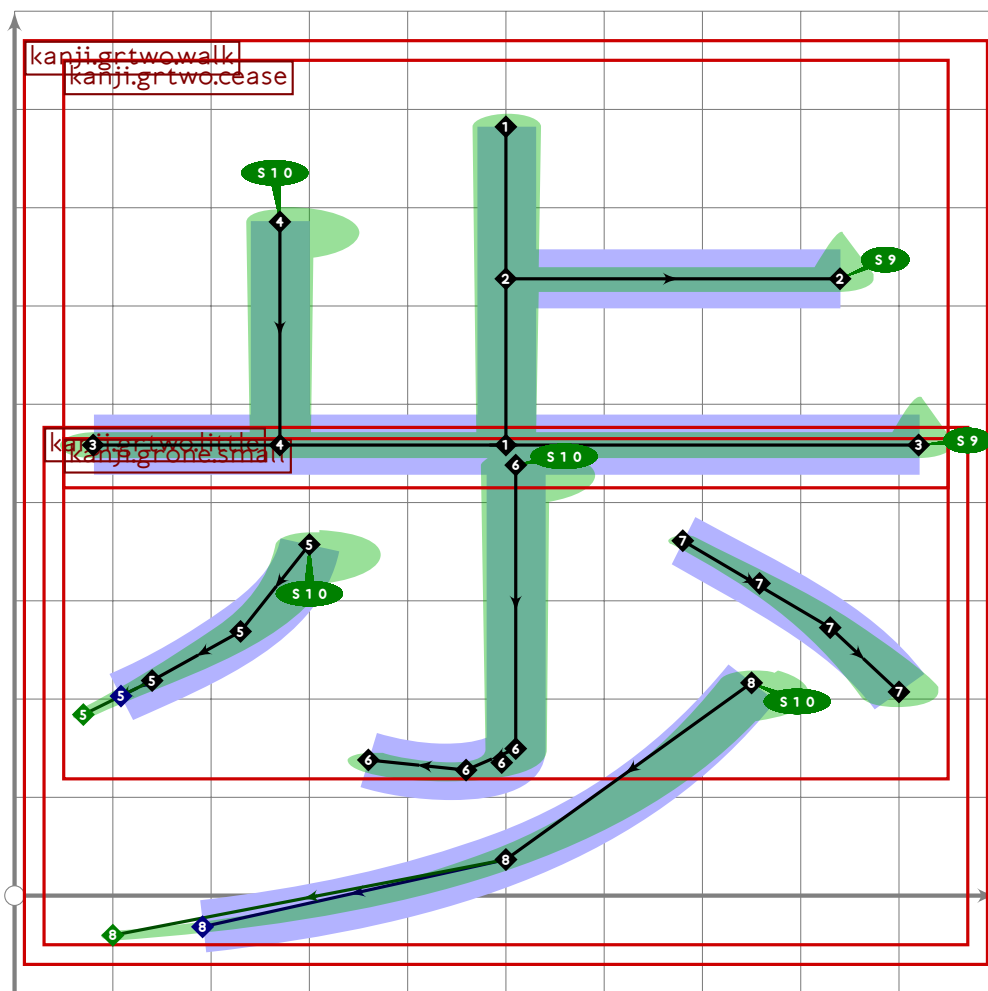
```

1113
1114 vardef kanji.grtwo.valley =
1115   push_pbox_toexpand("kanji.grtwo.valley");
1116   build_kanji.harmonic(230,0.8,260)(build_kanji.level(
1117     kanji.radical.tent;
1118     pop_stroke;
1119     build_kanji.box((250,400),(750,-10)));
1120   ));
1121   expand_pbox;
1122 enddef;

```



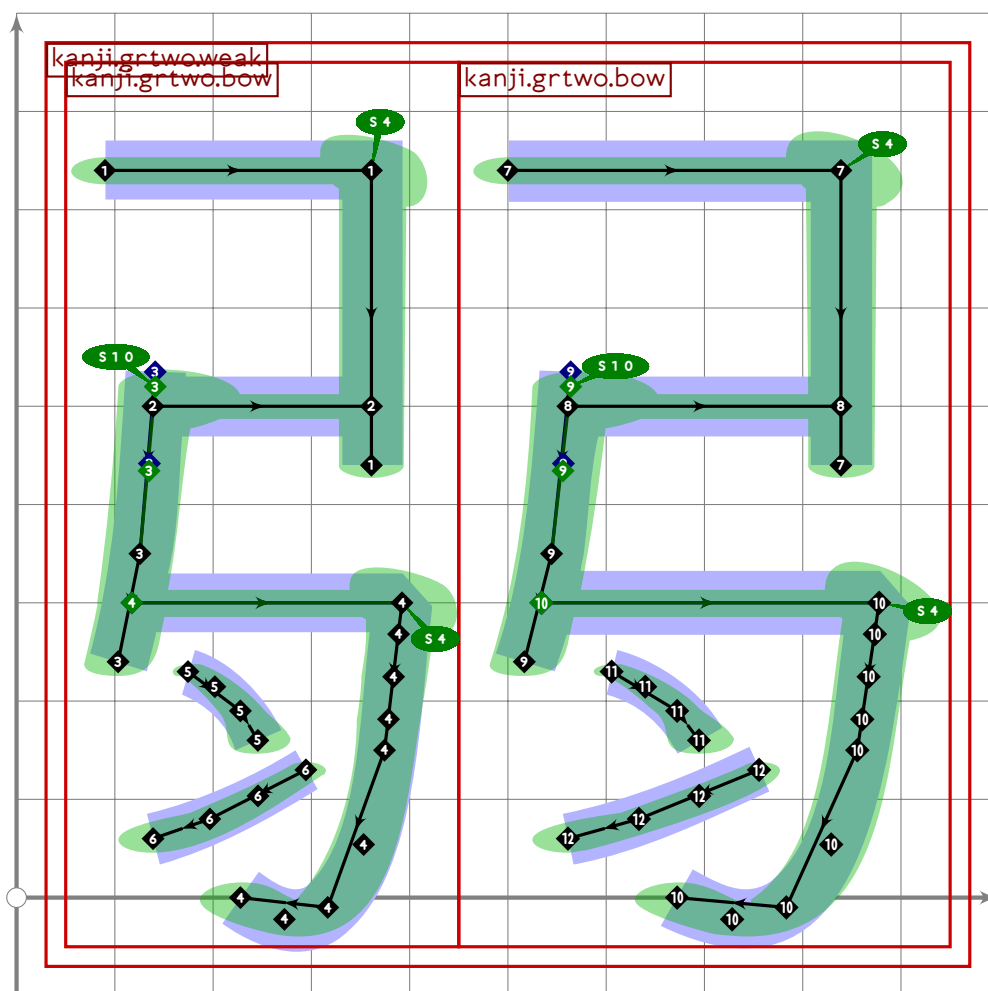
TWO



```

1123
1124 vardef kanji.grtwo.walk =
1125   push_pbox_toexpand("kanji.grtwo.walk");
1126   build_kanji.level(build_kanji.tb(440,50)
1127     (kanji.grtwo.cease)
1128     (kanji.grtwo.little));
1129   expand_pbox;
1130 enddef;

```



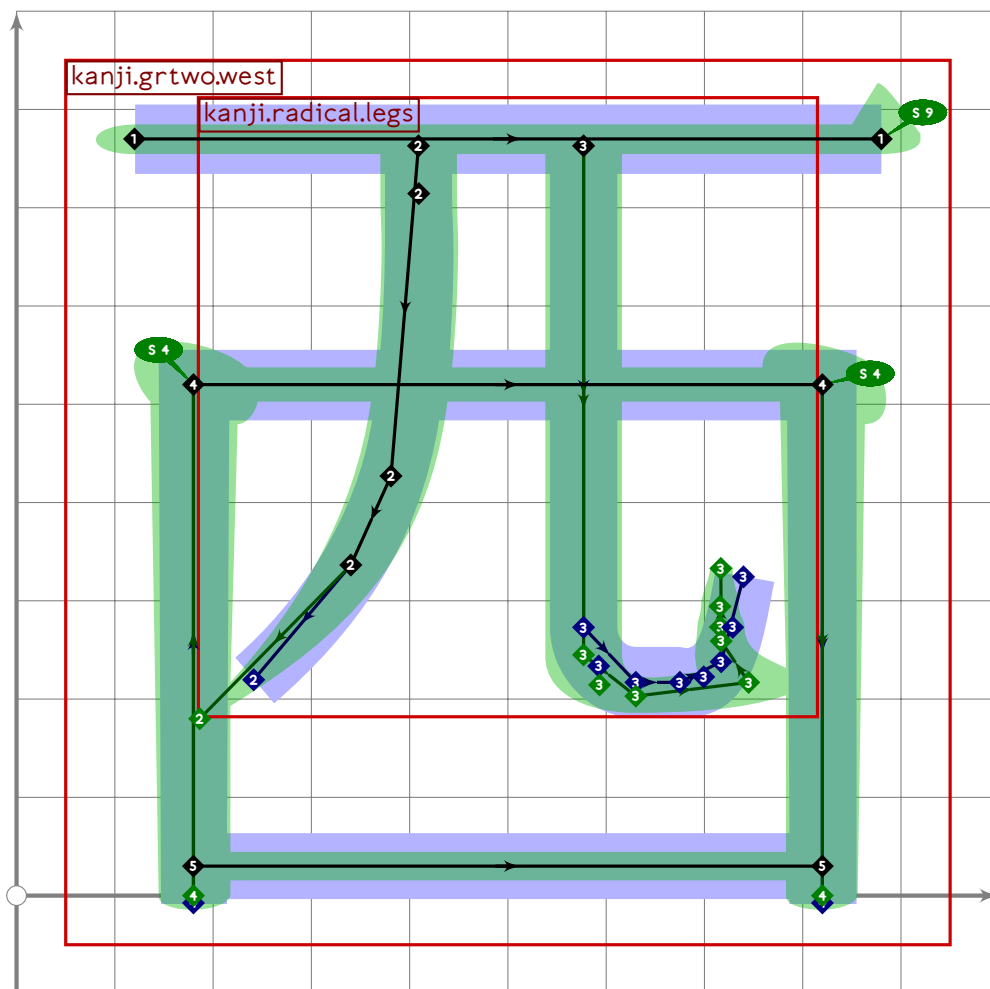
TWO

```

1131
1132 vardef kanji.grtwo.weak =
1133   push_pbox_toexpand("kanji.grtwo.weak");
1134   build_kanji.lr(450,0)
1135     (kanji.grtwo_helper.weak)
1136     (kanji.grtwo_helper.weak);
1137   expand_pbox;
1138 enddef;
1139
1140 vardef kanji.grtwo_helper.weak =
1141   kanji.grtwo.bow;
1142   push_stroke((330,230)..tension 1.2..(450,190)..(490,160),
1143     (1.2,1.2)-(1.4,1.4)-(1.8,1.8));
1144   set_bosize(0,80);
1145   push_stroke((600,130)..tension 1.2..(380,80)..(250,60),
1146     (1.3,1.3)-(1.6,1.6)-(1.9,1.9));
1147   set_bosize(0,80);
1148 enddef;

```

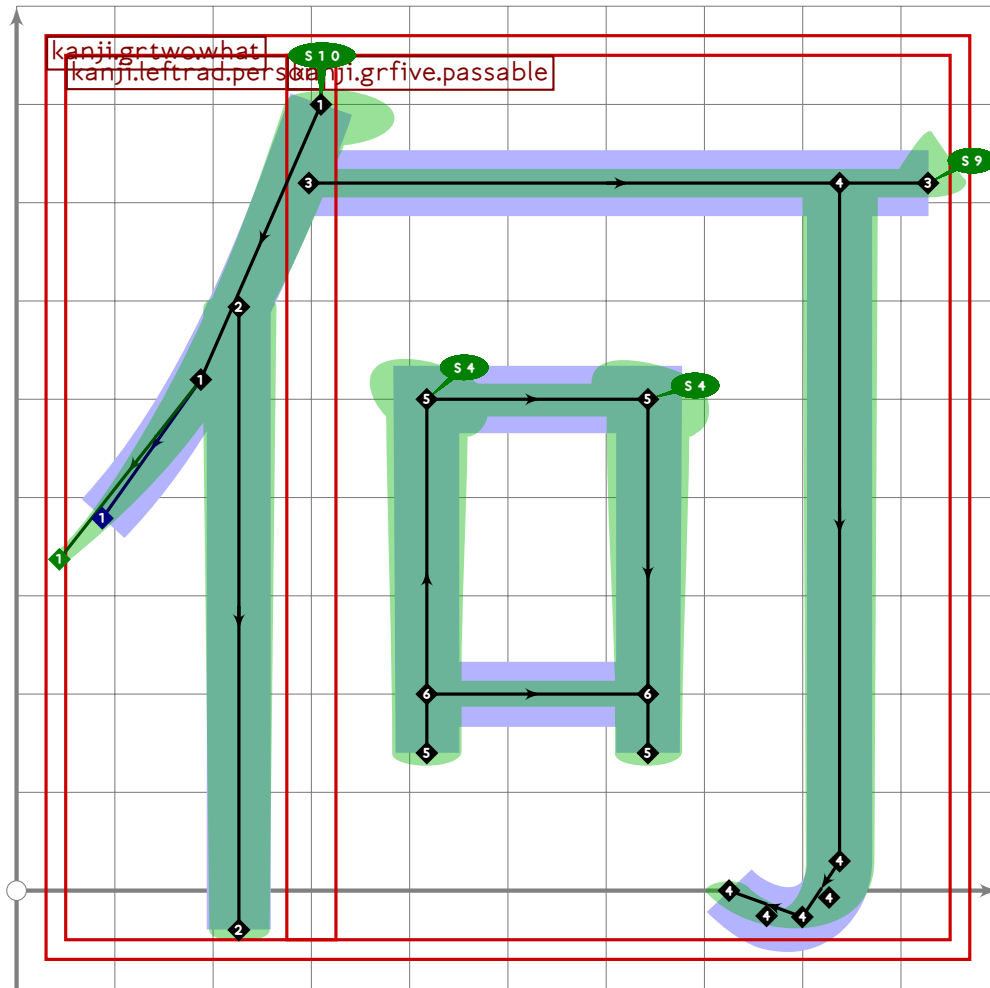
TWO



```

1149
1150 vardef kanji.grtwo.west =
1151   push_pbox_toexpand("kanji.grtwo.west");
1152   push_stroke((120,770)-(880,770),(1.6,1.6)-(1.6,1.6));
1153   set_boserif(0,1,9);
1154   build_kanji.sscale(scaled 0.7 shifted (0,100))
1155     (kanji.radical.legs);
1156   build_kanji.box((180,520),(820,30));
1157   expand_pbox;
1158 enddef;

```



TWO

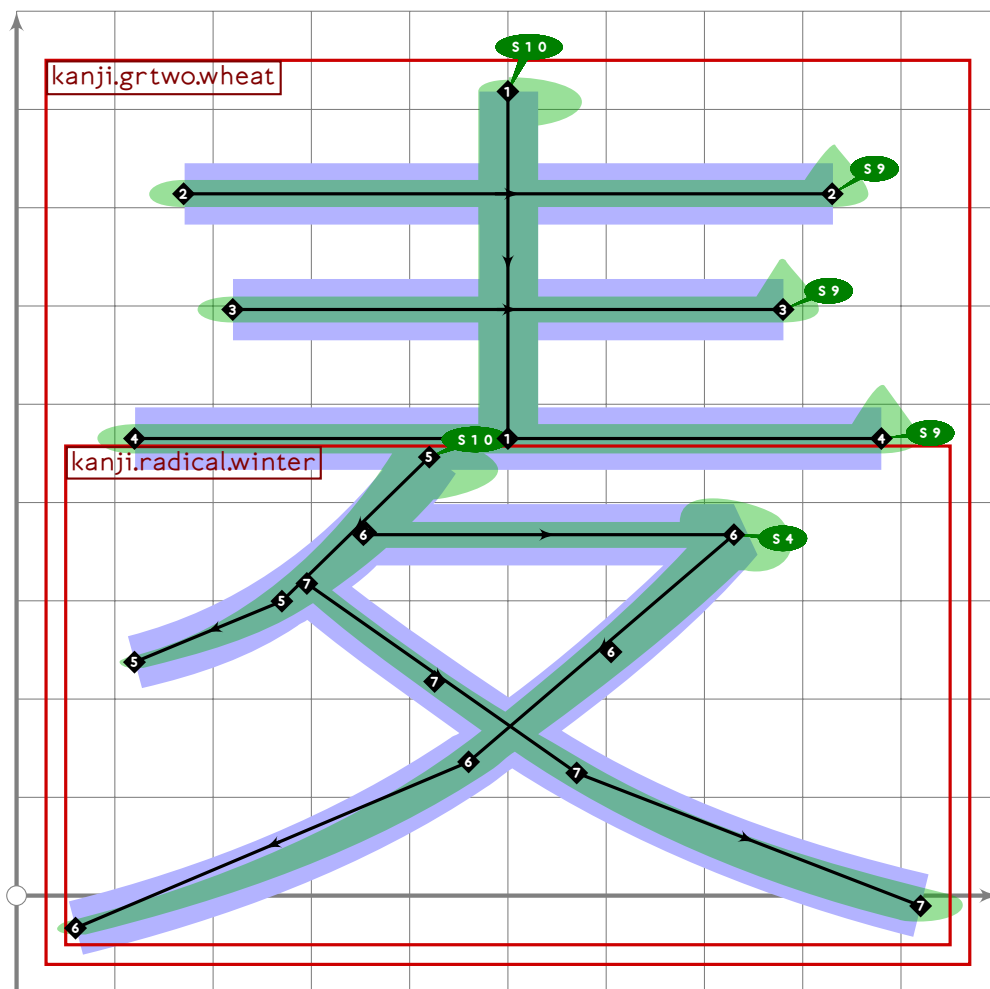
```

1159
1160 vardef kanji.grtwo.what =
1161   push_pbox_toexpand("kanji.grtwo.what");
1162   build_kanji.lr(300,50)
1163     (kanji.leftrad.person)
1164     (kanji.grfive.passable);
1165   expand_pbox;
1166 enddef;

```

U+9EA6  
tsuku.uni9EA6

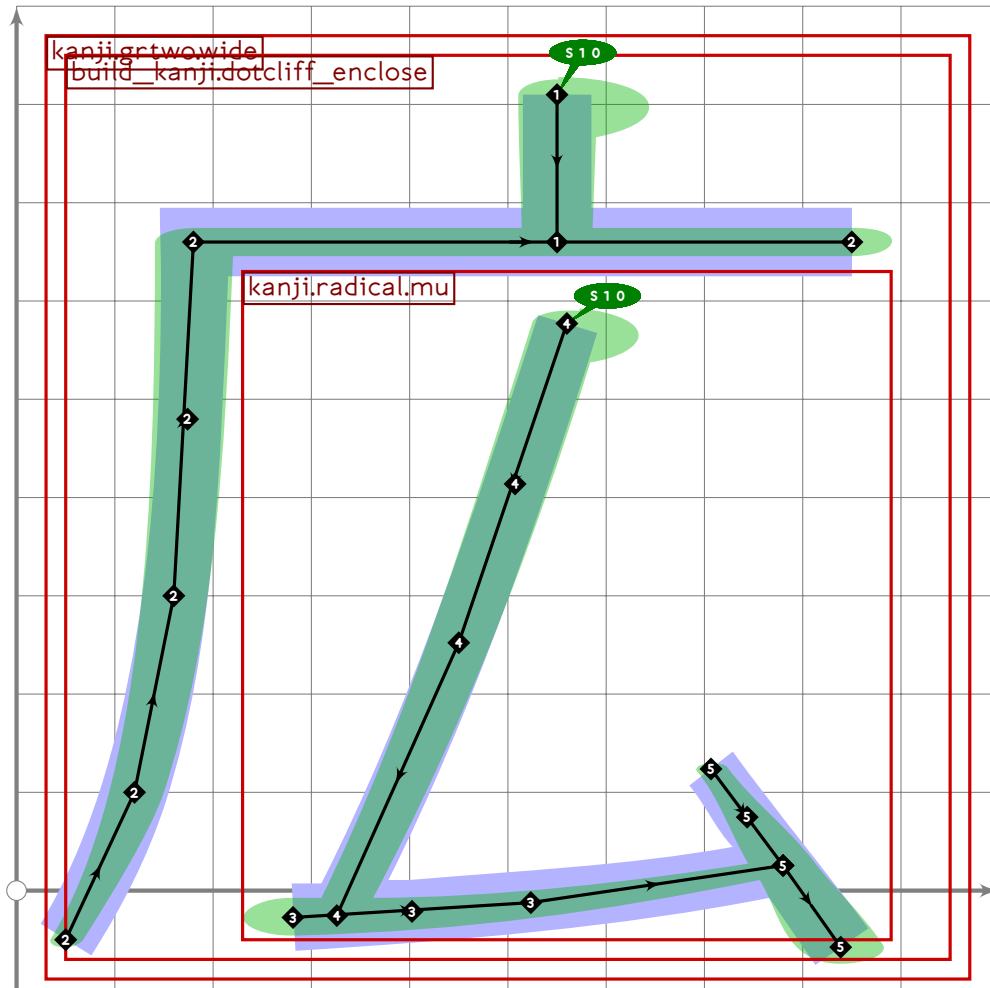
TWO



```

1167
1168 vardef kanji.grtwo.wheat =
1169   push_pbox_toexpand("kanji.grtwo.wheat");
1170   build_kanji.level(build_kanji.tb(450,15)
1171     (push_stroke((500,780)-(500,0),
1172       (1.5,1.5)-(1.4,1.4));
1173     set_boserif(0,0,10);
1174     push_stroke((170,550)-(830,550),
1175       (1.6,1.6)-(1.6,1.6));
1176     set_boserif(0,1,9);
1177     push_stroke((220,290)-(780,290),
1178       (1.6,1.6)-(1.6,1.6));
1179     set_boserif(0,1,9);
1180     push_stroke((120,0)-(880,0),
1181       (1.7,1.7)-(1.7,1.7));
1182     set_boserif(0,1,9))
1183     (kanji.radical.winter));
1184   expand_pbox;
1185 enddef;

```



TWO

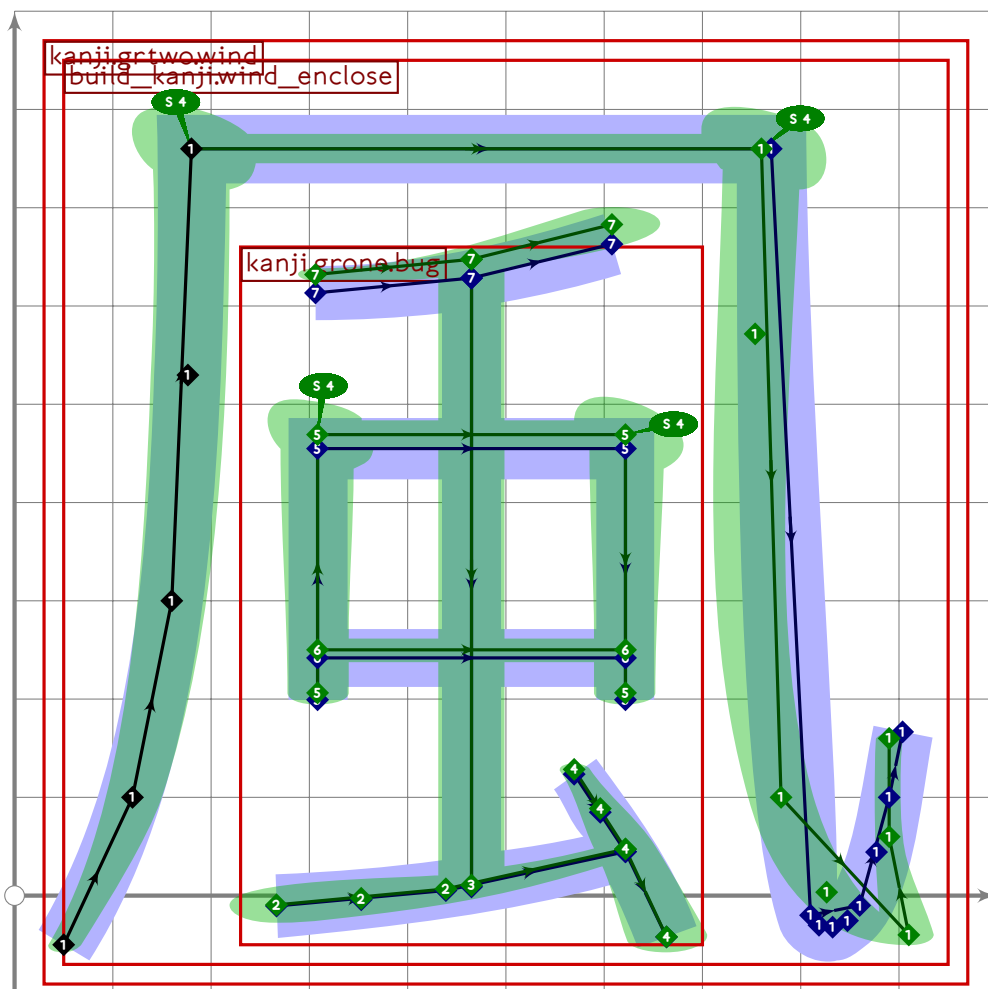
```

1186
1187 vardef kanji.grtwo.wide =
1188   push_pbox_toexpand("kanji.grtwo.wide");
1189   build_kanji.dotcliff_enclose(kanji.radical.mu);
1190   expand_pbox;
1191 enddef;

```

U+98A8  
tsuku.uni98A8

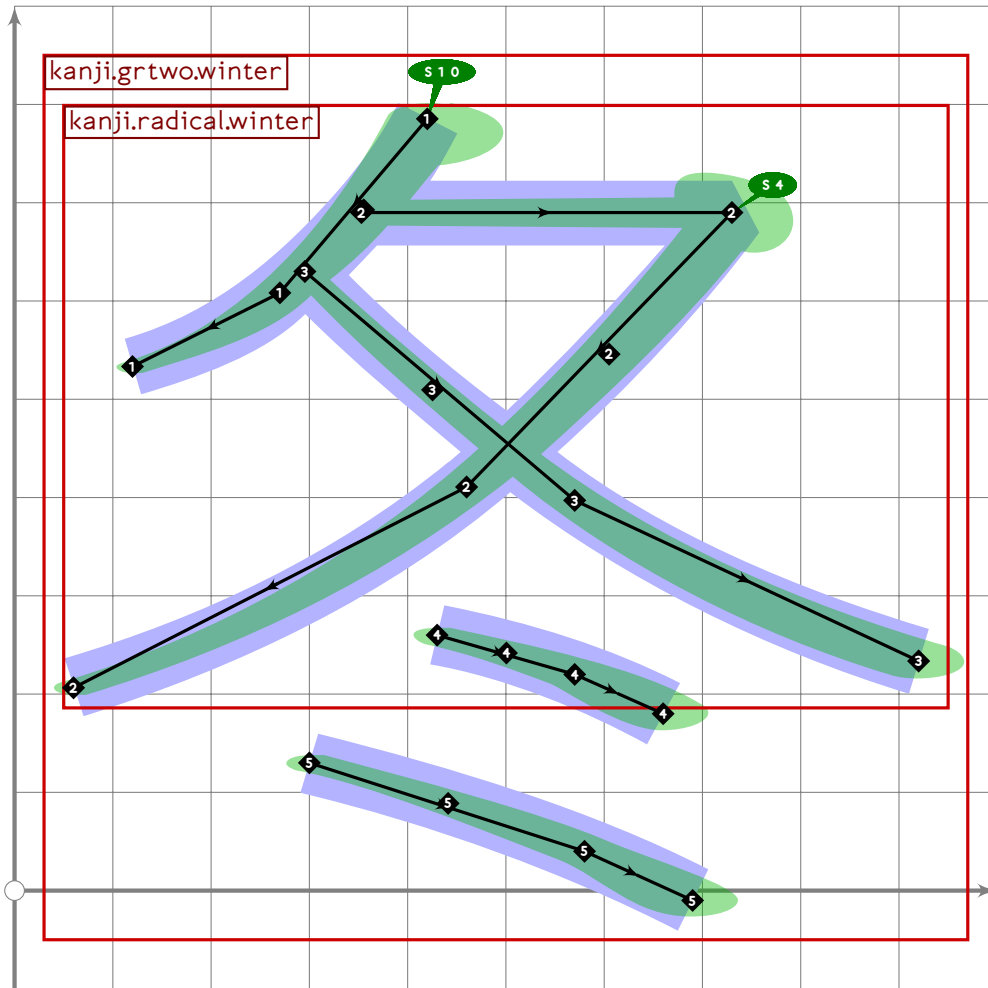
TWO



```

1192
1193 vardef kanji.grtwo.wind =
1194   push_pbox_toexpand("kanji.grtwo.wind");
1195   build_kanji.wind_enclose(build_kanji.add_beret(kanji.grone.bug));
1196   expand_pbox;
1197 enddef;

```



TWO

```

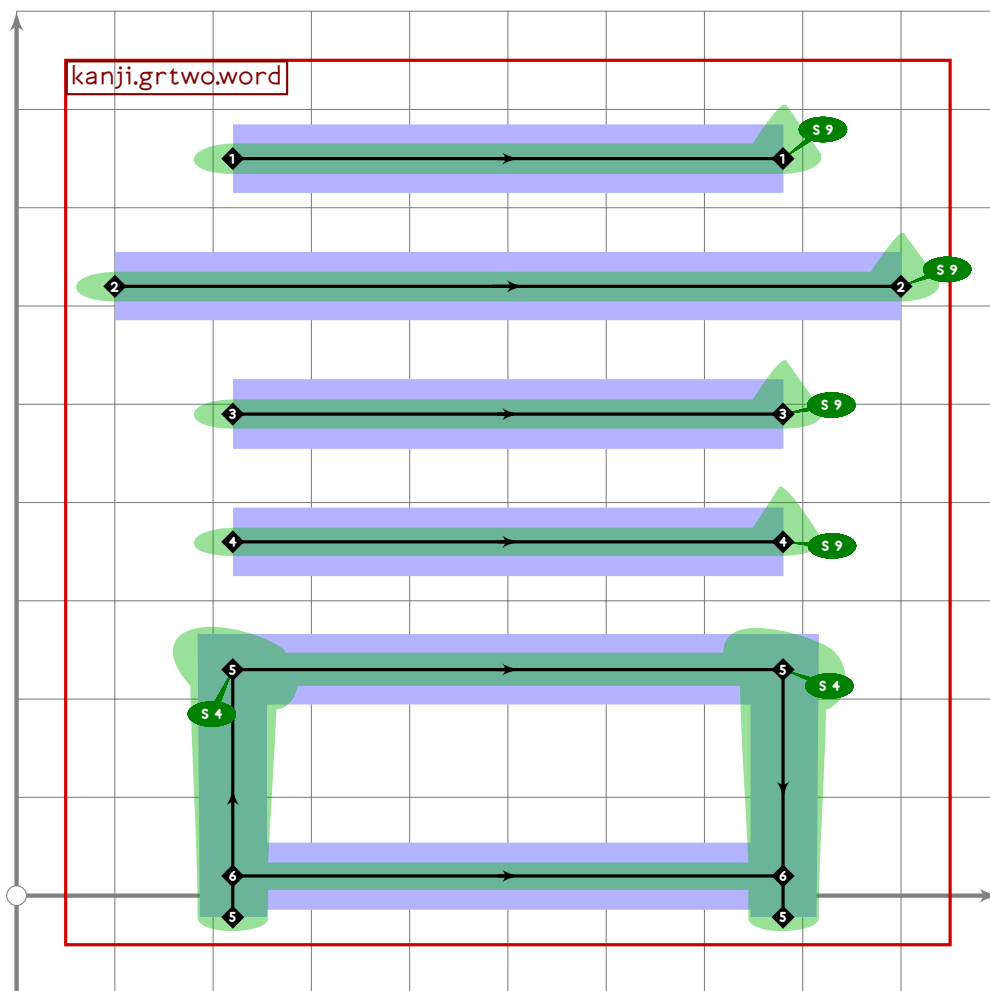
1198
1199 vardef kanji.grtwo.winter =
1200   push_pbox_toexpand("kanji.grtwo.winter");
1201   build_kanji.level(
1202     tsu_xform(begingroup
1203       save myxf;
1204       transform myxf;
1205       (0,690) transformed myxf=(0,690);
1206       (1000,690) transformed myxf=(1000,690);
1207       (500,0) transformed myxf=(500,220);
1208       myxf
1209     endgroup)(kanji.radical.winter);
1210   push_stroke((430,260)..tension 1.2..(570,220)..(660,180),
1211     (1.2,1.2)–(1.5,1.5)–(1.8,1.8));
1212   push_stroke((300,130)..tension 1.2..(580,40)..(690,-10),
1213     (1.2,1.2)–(1.5,1.5)–(1.8,1.8));
1214 );
1215   expand_pbox;
1216 enddef;

```



U+8A00  
tsuku.uni8A00

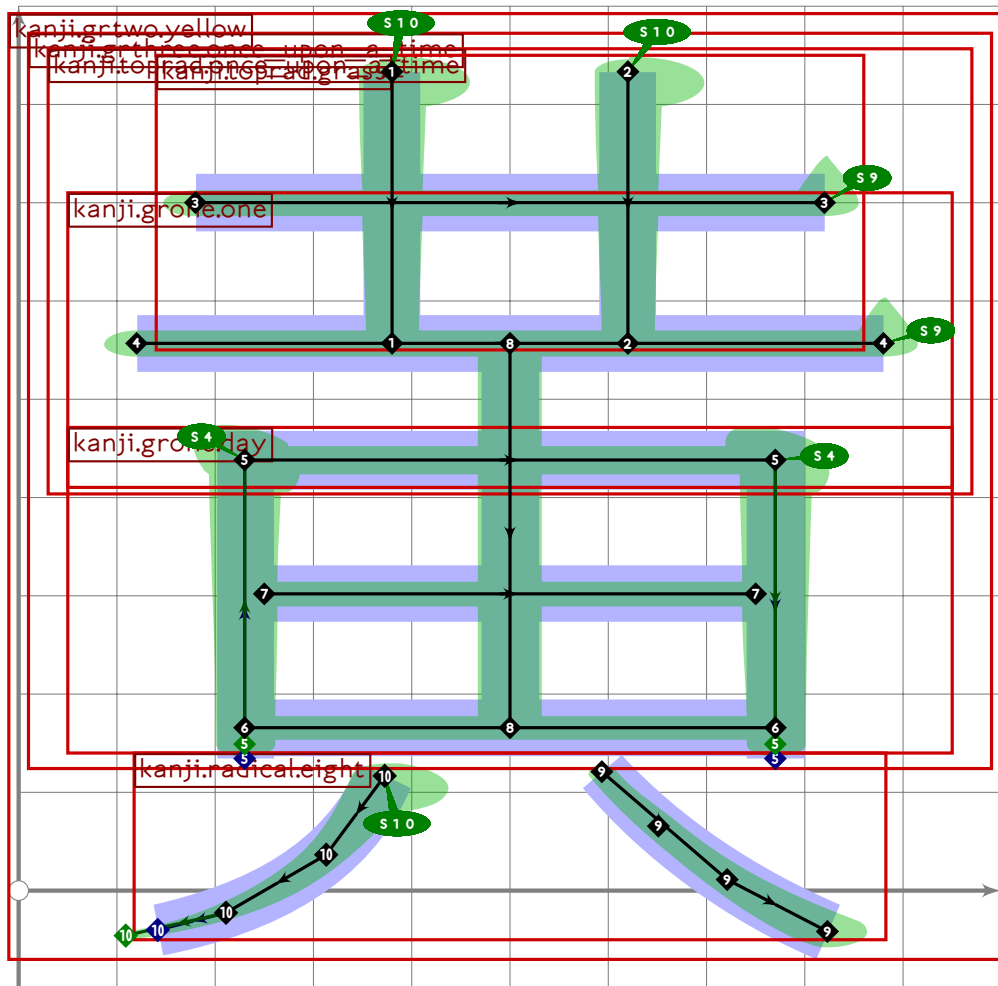
TWO



```

1217
1218 vardef kanji.grtwo.word =
1219   push_pbox_toexpand("kanji.grtwo.word");
1220   push_stroke((220,750)–(780,750),(1.6,1.6)–(1.6,1.6));
1221   set_boserif(0,1,9);
1222   push_stroke((100,620)–(900,620),(1.6,1.6)–(1.6,1.6));
1223   set_boserif(0,1,9);
1224   push_stroke((220,490)–(780,490),(1.6,1.6)–(1.6,1.6));
1225   set_boserif(0,1,9);
1226   push_stroke((220,360)–(780,360),(1.6,1.6)–(1.6,1.6));
1227   set_boserif(0,1,9);
1228   build_kanji.box((220,230),(780,20));
1229   expand_pbox;
1230 enddef;

```



TWO

```

1231
1232 vardef kanji.grtwo.yellow =
1233   push_pbox_toexpand("kanji.grtwo.yellow");
1234   build_kanji.level(build_kanji.tb(140,0)
1235     (kanji.grthree.once_upon_a_time;
1236       push_stroke((point 0.5 of get_stroke(-3))–
1237         (point 0.5 of get_stroke(-1)),
1238         (1.6,1.6)–(1.5,1.5)))
1239     (build_kanji.sscale(xscaled 0.85)(kanji.radical.eight)));
1240   expand_pbox;
1241 enddef;

```

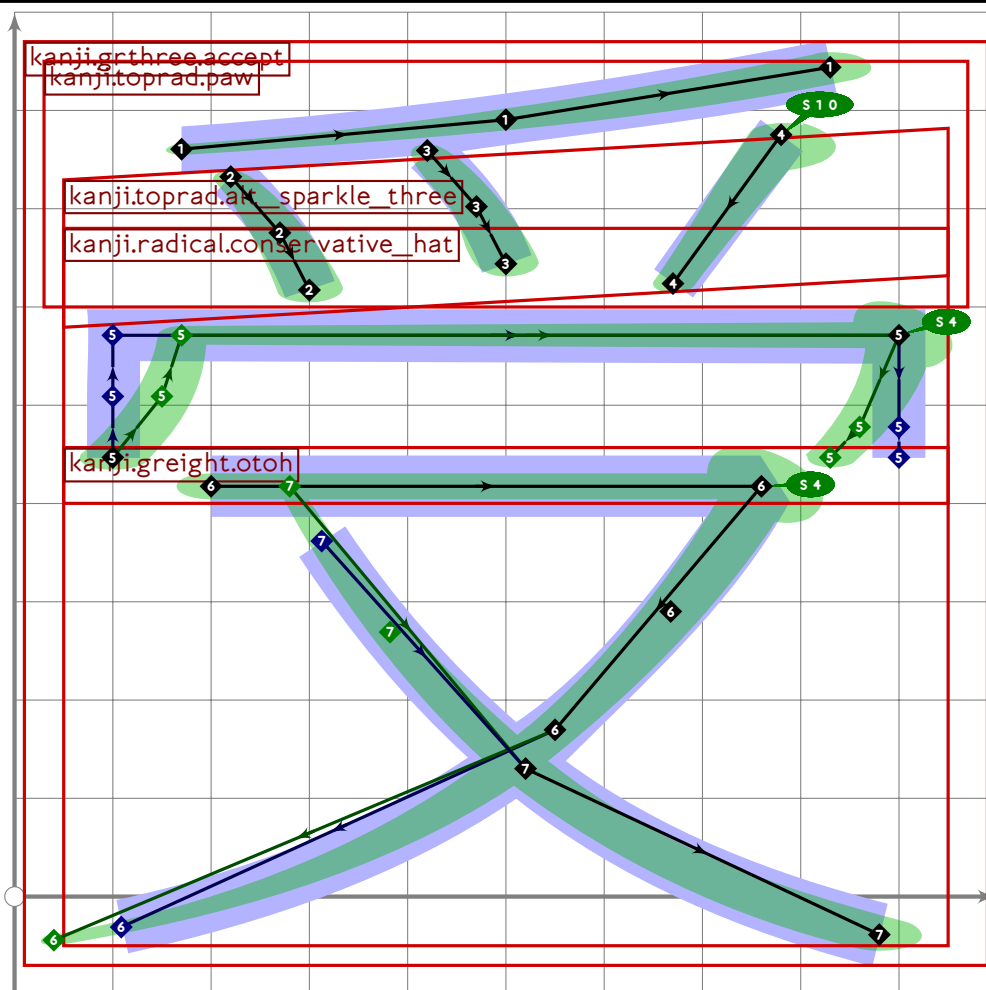
## gradethree.mp

```

1 %
2 % Grade Three kanji used on more than one page
3 % Copyright (C) 2011, 2012, 2013, 2014, 2016, 2017 Matthew Skala
4 %
5-29 [Standard copyright notice]
30
31 inclusion_lock(gradethree);
32
33

```

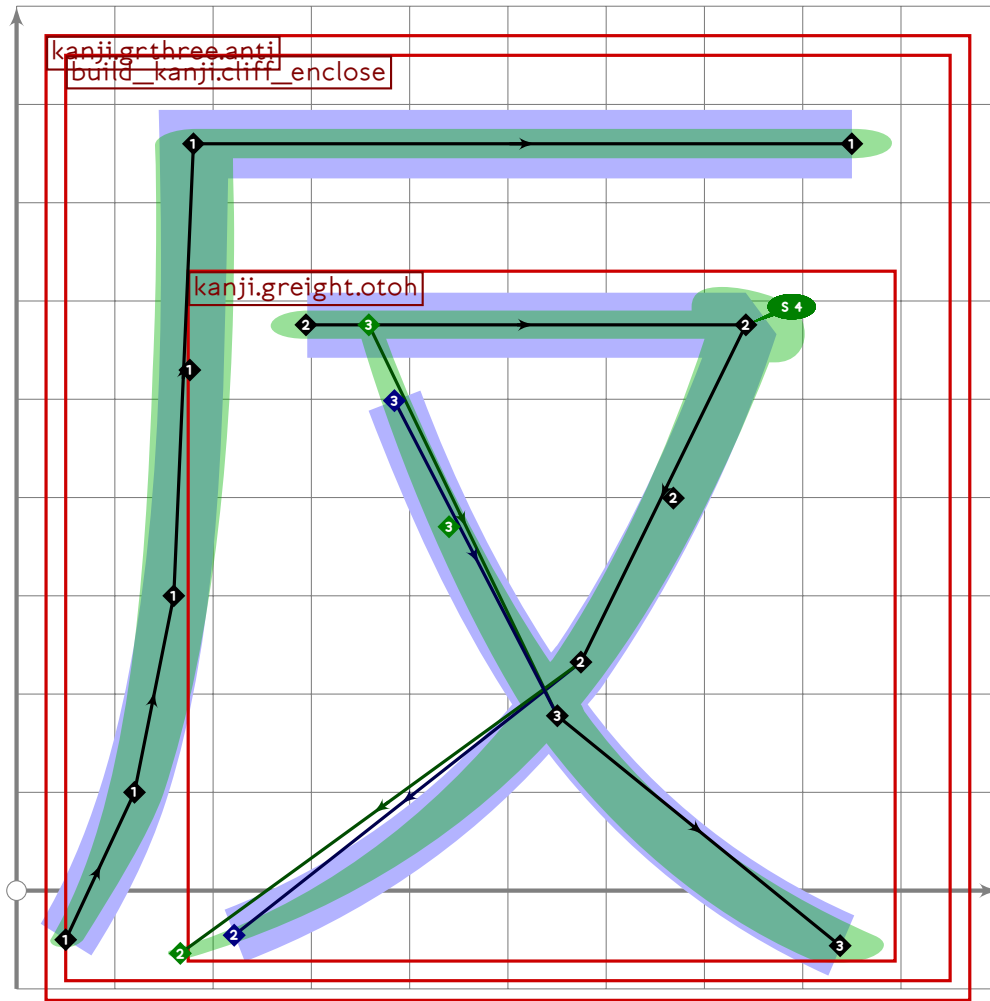
THRE



```

34
35 vardef kanji.grthree.accept =
36   push_pbox_toexpand("kanji.grthree.accept");
37   build_kanji.tb(640,80)
38     (kanji.toprad.paw)
39     (build_kanji.tb(540,70)
40       (kanji.radical.conservative_hat)
41       (kanji.greight.otoh));
42   expand_pbox;
43 enddef;

```



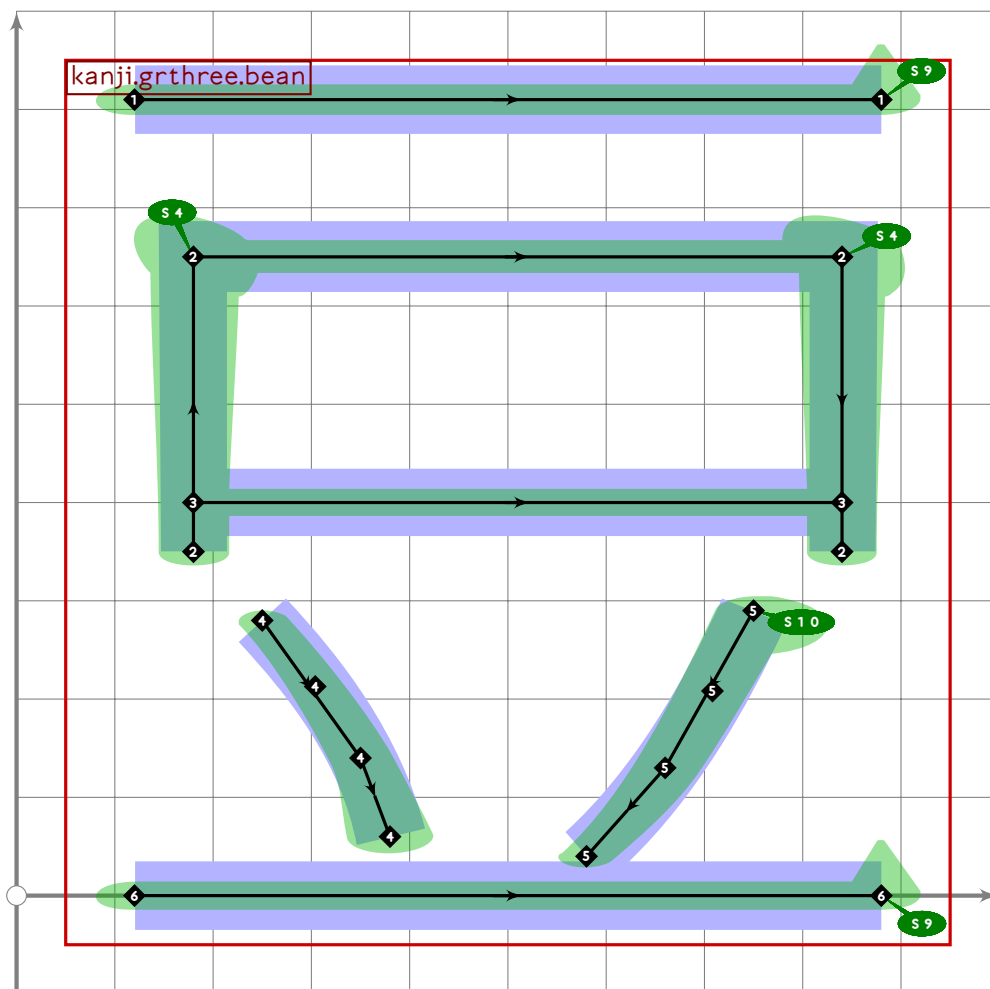
THRE

```

44
45 vardef kanji.grthree.anti =
46   push_pbox_toexpand("kanji.grthree.anti");
47   build_kanji.cliff_enclose
48     (tsu_xform(identity xyscaled (1.09,0.9) shifted (-80,-30))
49     (kanji.greight.otoh));
50   expand_pbox;
51 enddef;

```

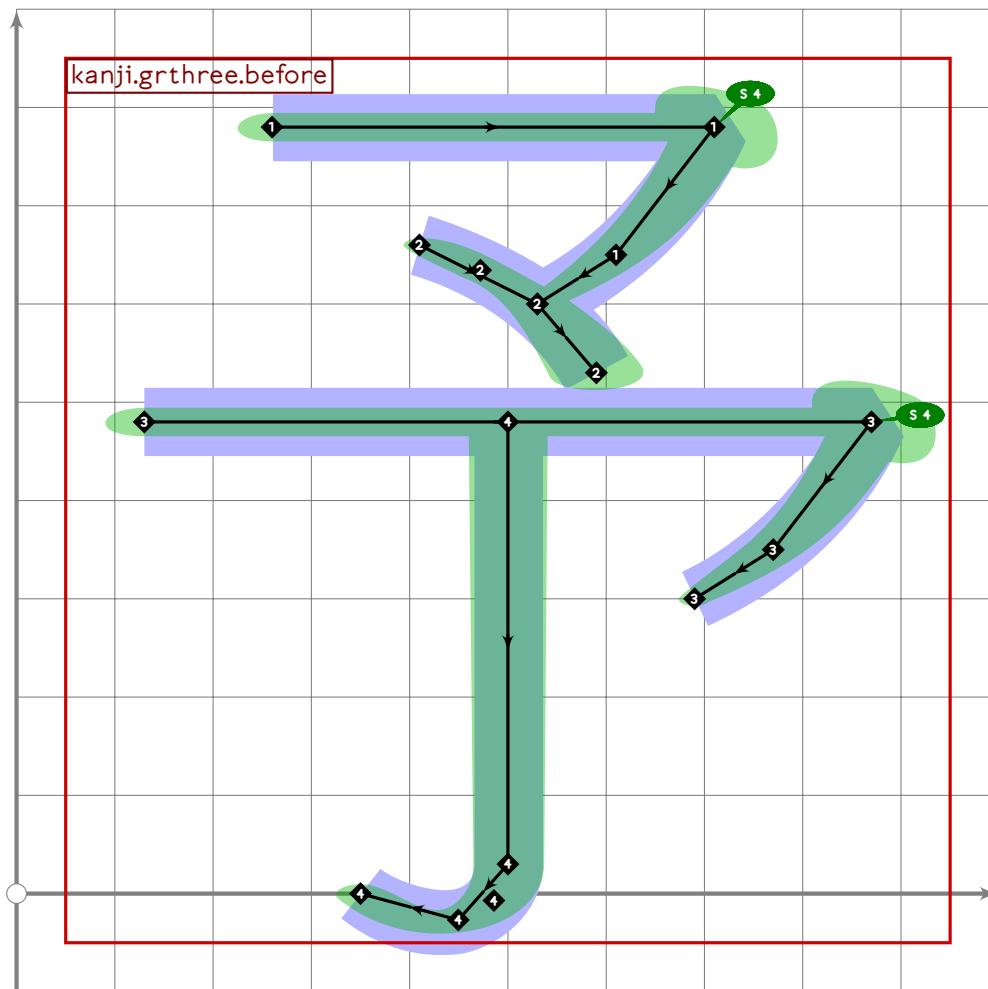
THRE



```

52
53 vardef kanji.grthree.bean =
54   push_pbox_toexpand("kanji.grthree.bean");
55   push_stroke((120,810)-(880,810),
56     (1.6,1.6)-(1.6,1.6));
57   set_boserif(0,1,9);
58   build_kanji.box((180,650),(840,400));
59   push_stroke((250,280)..tension 1.2..(350,140)..(380,60),
60     (1.2,1.2)-(1.4,1.4)-(1.7,1.7));
61   push_stroke((750,290)..tension 1.2..(660,130)..(580,40),
62     (1.6,1.6)-(1.5,1.5)-(1.3,1.3));
63   set_boserif(0,0,10);
64   push_stroke((120,0)-(880,0),
65     (1.6,1.6)-(1.6,1.6));
66   set_boserif(0,1,9);
67   expand_pbox;
68 enddef;

```



THRE

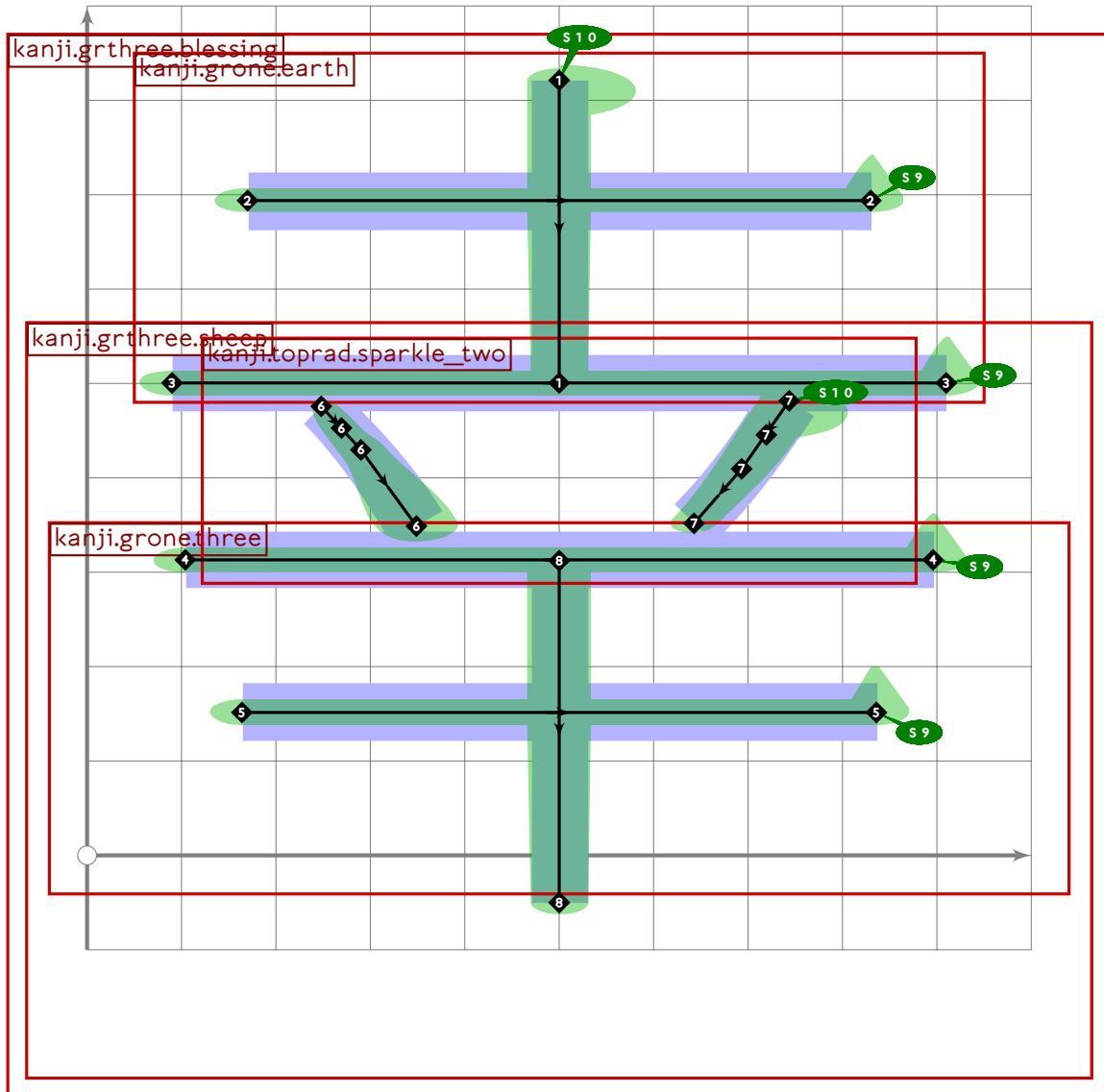
```

69
70 vardef kanji.grthree.before =
71   push_pbox_toexpand("kanji.grthree.before");
72   push_stroke((260,780)-(710,780)..(610,650)..(530,600),
73     (1.5,1.5)-(1.6,1.6)-(1.4,1.4)-(1,1));
74   set_boserif(0,14);
75   set_botip(0,1,0);
76   push_stroke((410,660)..tension 1.2..(530,600)..(590,530),
77     (1,1)-(1.4,1.4)-(1.8,1.8));
78   push_stroke((130,480)-(870,480)..(770,350)..(690,300),
79     (1.6,1.6)-(1.6,1.6)-(1.4,1.4)-(1,1));
80   set_boserif(0,14);
81   set_botip(0,1,0);
82   push_stroke((500,480),
83     (1.6,1.6));
84   build_kanji.add_jtail(0);
85   expand_pbox;
86 enddef;

```

U+5E78  
tsuku.uni5E78

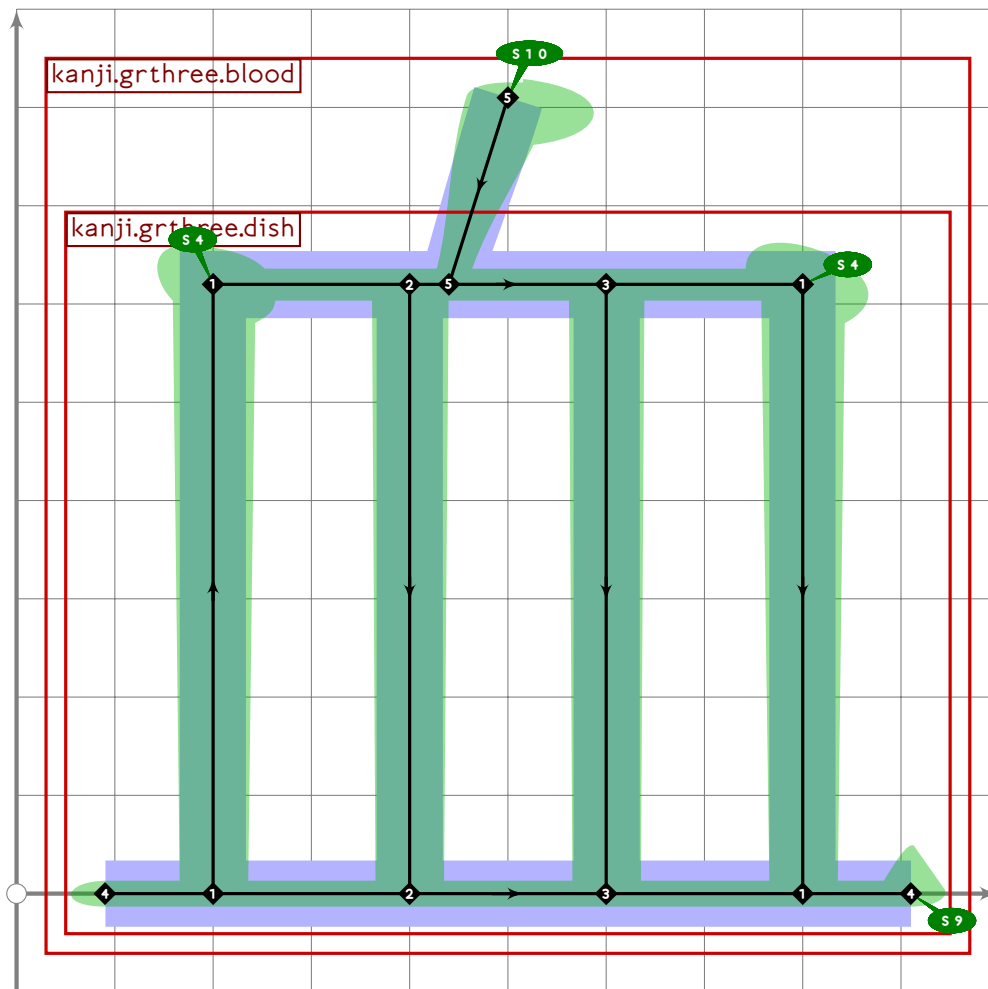
THRE



```

87
88 vardef kanji.grthree.blessing =
89   push_pbox_toexpand("kanji.grthree.blessing");
90   build_kanji.level(build_kanji.tb(480,0)
91     (kanji.grone.earth)
92     (build_kanji.sscale(xyscaled (1.2,1.4) shifted (0,-140))
93       (kanji.grthree.sheep);
94     obstacktype[find_stroke(-3)]:=otnull;
95     replace_strokep(0)((point 0 of oldp)-(500,-50)));
96   expand_pbox;
97 enddef;

```



THRE

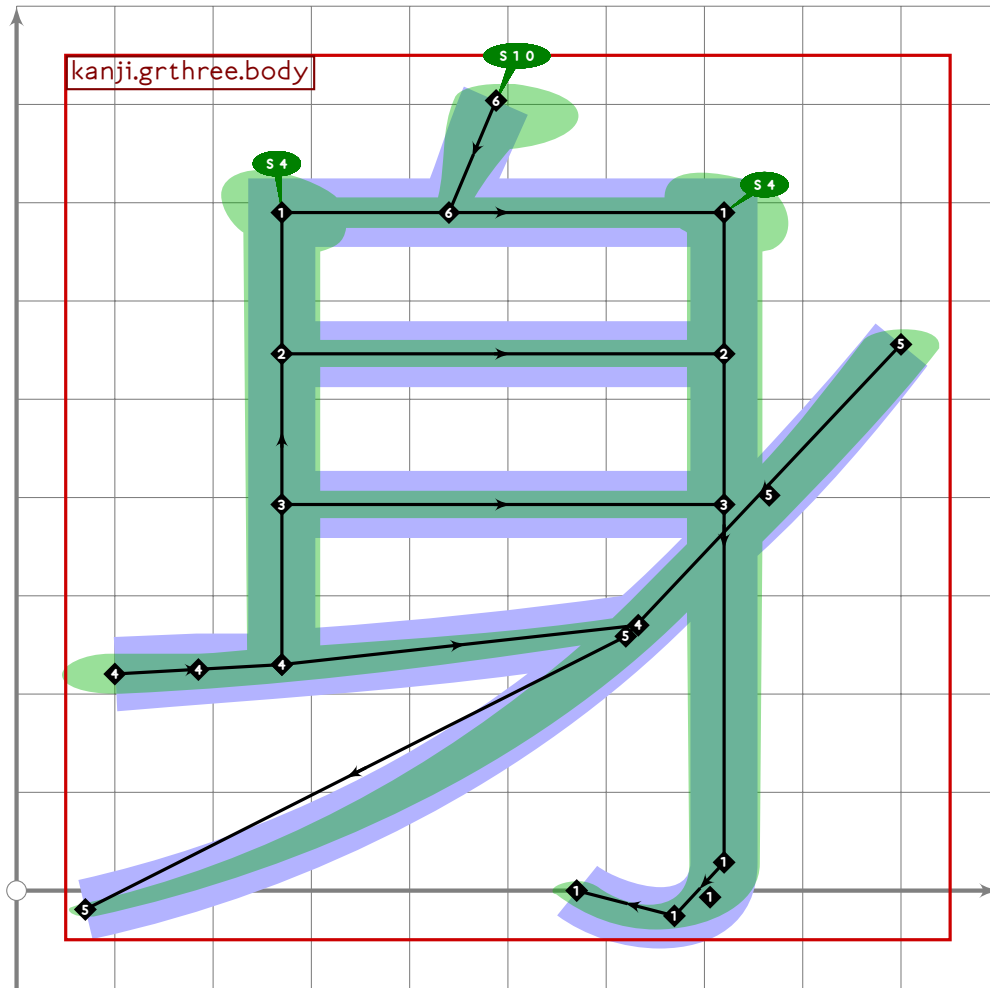
```

98
99 vardef kanji.grthree.blood =
100   push_pbox_toexpand("kanji.grthree.blood");
101   build_kanji.attach_tick(620)(kanji.grthree.dish);
102   expand_pbox;
103 enddef;

```



THRE



```

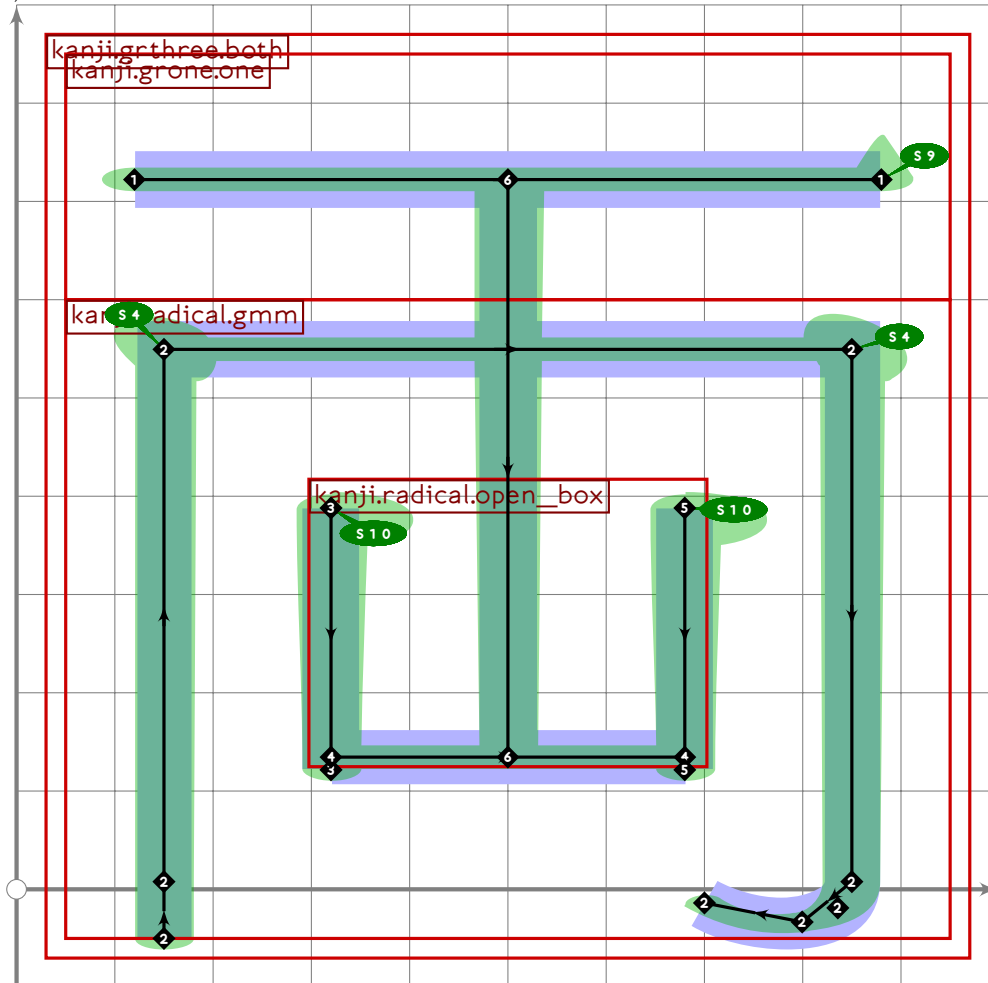
104
105 vardef kanji.grthree.body =
106   push_pbox_toexpand("kanji.grthree.body");
107   build_kanji.attach_tick(690)(
108     push_stroke((270,240)–(270,720)–(720,720),
109       (1.5,1.5)–(1.6,1.6)–(1.6,1.6));
110     build_kanji.add_jtail(0);
111     set_boserif(0,1,4);
112     set_boserif(0,2,4);
113     set_botip(0,1,1);
114     set_botip(0,2,1);
115     push_stroke((270,570)–(720,570),
116       (1.5,1.5)–(1.5,1.5));
117     push_stroke((270,410)–(720,410),
118       (1.5,1.5)–(1.5,1.5));
119     push_stroke((100,230)..tension 1.3..(270,240)..(920,340),
120       (2,2)–(1.7,1.7)–(1,1));
121     push_stroke((900,580)..tension 1.2..(620,270)..(70,-20),
122       (1.6,1.6)–(1.4,1.4)–(1,1));
123     begingroup
124       save tval;

```

```

125     numeric tval;
126     tval=xpart (get_strokep(-1) intersectiontimes get_strokep(0));
127     replace_strokep(-1)(subpath (0,tval) of oldp);
128     replace_strokeq(-1)(subpath (0,tval) of oldq);
129     endgroup;
130 );
131 replace_strokep(0)(oldp shifted (-point 2 of oldp)
132     xyscaled (0.8,0.6) shifted (point 2 of oldp));
133 expand_pbox;
134 enddef;

```



THRE

```

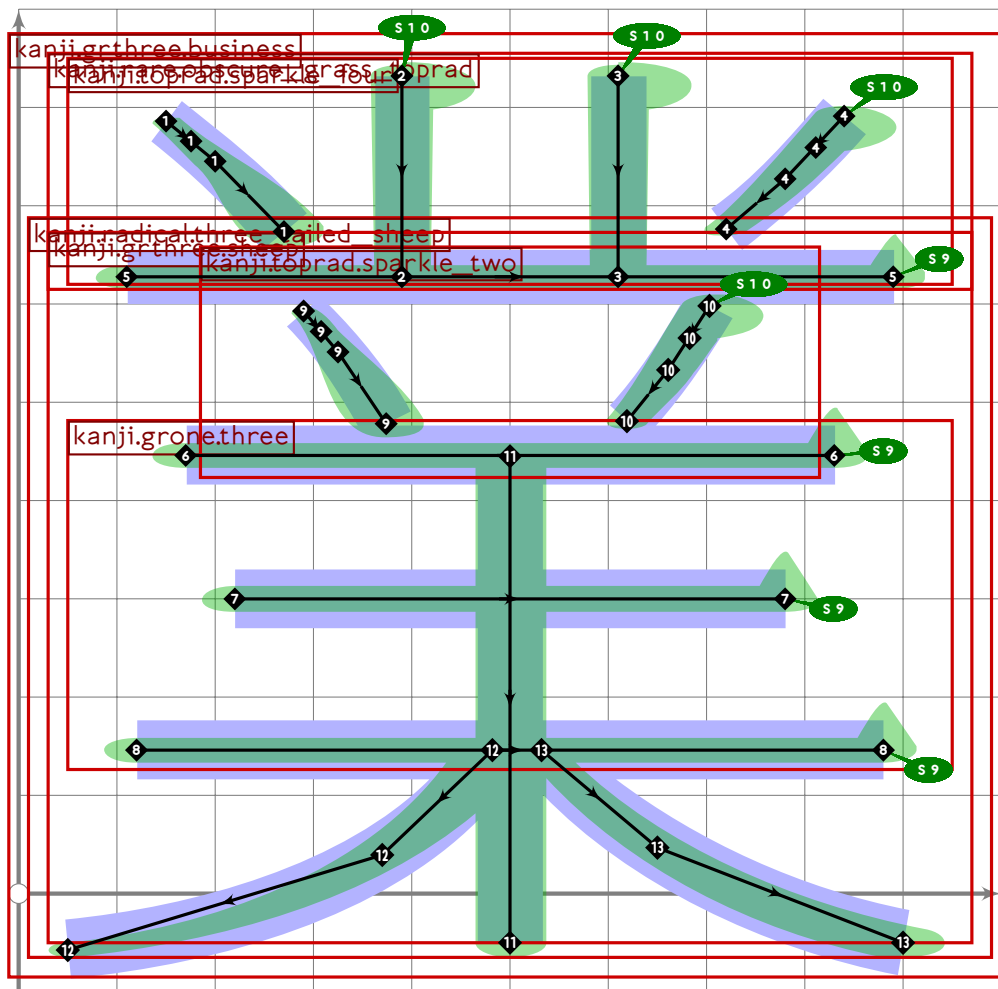
135
136 vardef kanji.grthree.both =
137     push_pbox_toexpand("kanji.grthree.both");
138     build_kanji.level(
139         build_kanji.tb(600,0)
140         (kanji.grone.one)
141         (kanji.radical.gmm;
142         build_kanji.sscale(scaled 0.45)(kanji.radical.open_box));
143     push_stroke(
144         (point 0.5 of get_strokep(-4))-(point 0.5 of get_strokep(-1)),
145         (1.7,1.7)-(1.5,1.5));

```

# THRE

The diagram illustrates the stroke order and radical information for the Japanese character '三' (three). The character is composed of three horizontal strokes. The stroke order is indicated by numbers 1, 2, and 3, and the radical is indicated by 'S 4'. The diagram also shows the character's position within a grid, with the radical '三' (three) and the character '三' (three) labeled. The radical '三' (three) is located at the top left, and the character '三' (three) is located at the bottom right. The diagram is enclosed in a red border.

600



THRE

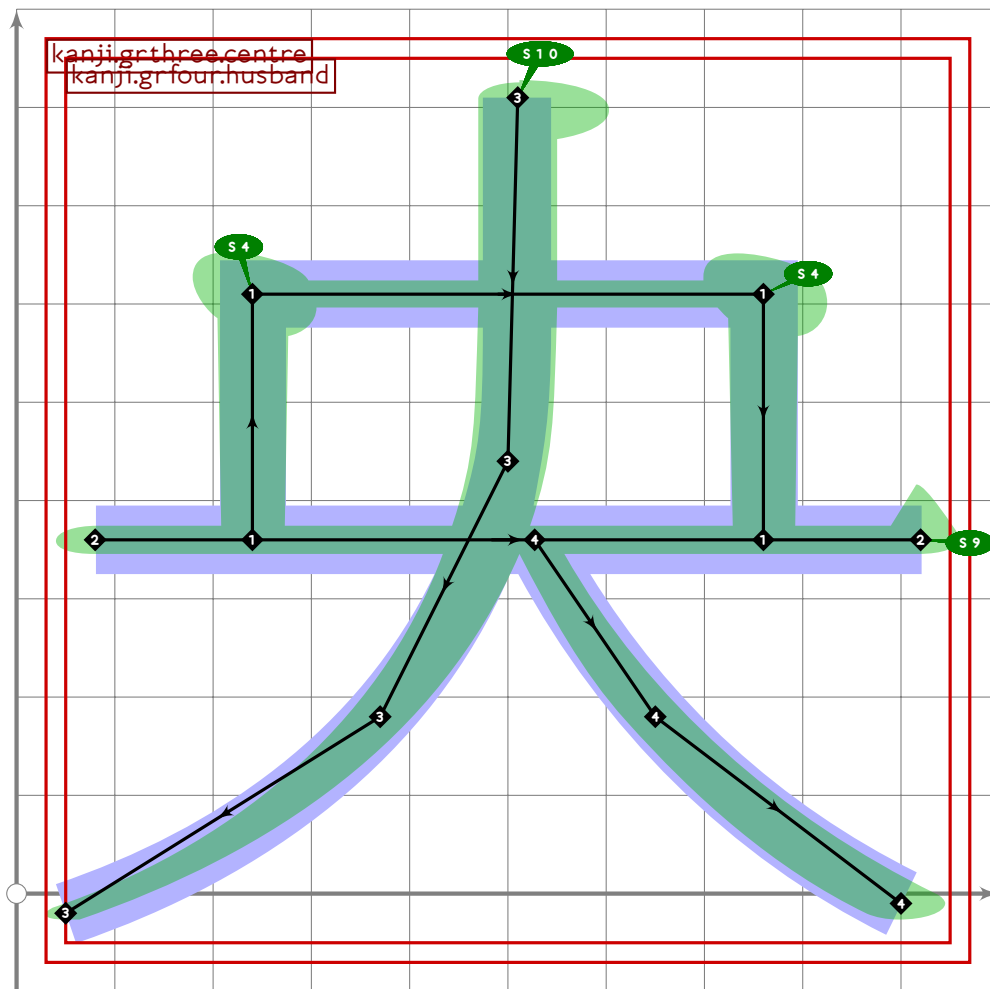
```

157
158 vardef kanji.grthree.business =
159   push_pbox_toexpand("kanji.grthree.business");
160   build_kanji.tb(620,0)
161     (kanji.rare.obscure_grass_toprad)
162     (kanji.radical.three_tailed_sheep);
163   expand_pbox;
164 enddef;

```

U+592E  
tsuku.uni592E

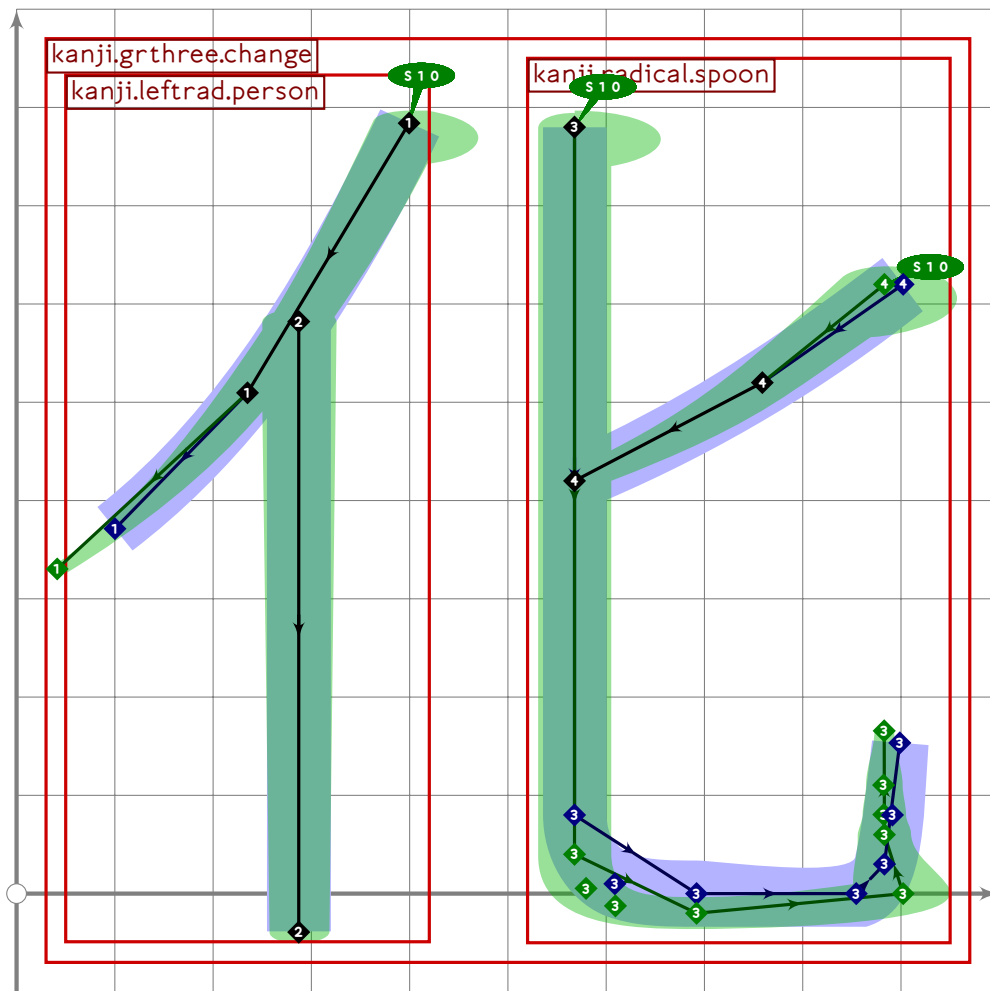
THRE



```

165
166 vardef kanji.grthree.centre =
167   push_pbox_toexpand("kanji.grthree.centre");
168   kanji.grfour.husband;
169   replace_strokep(-3)((240,360)-(240,610)-(760,610)-(760,360));
170   replace_strokeq(-3)((14,14)-(1.5,1.5)-(1.5,1.5)-(14,14));
171   set_boserif(-3,1,4);
172   set_boserif(-3,2,4);
173   set_botip(-3,1,1);
174   set_botip(-3,2,1);
175   expand_pbox;
176 enddef;

```



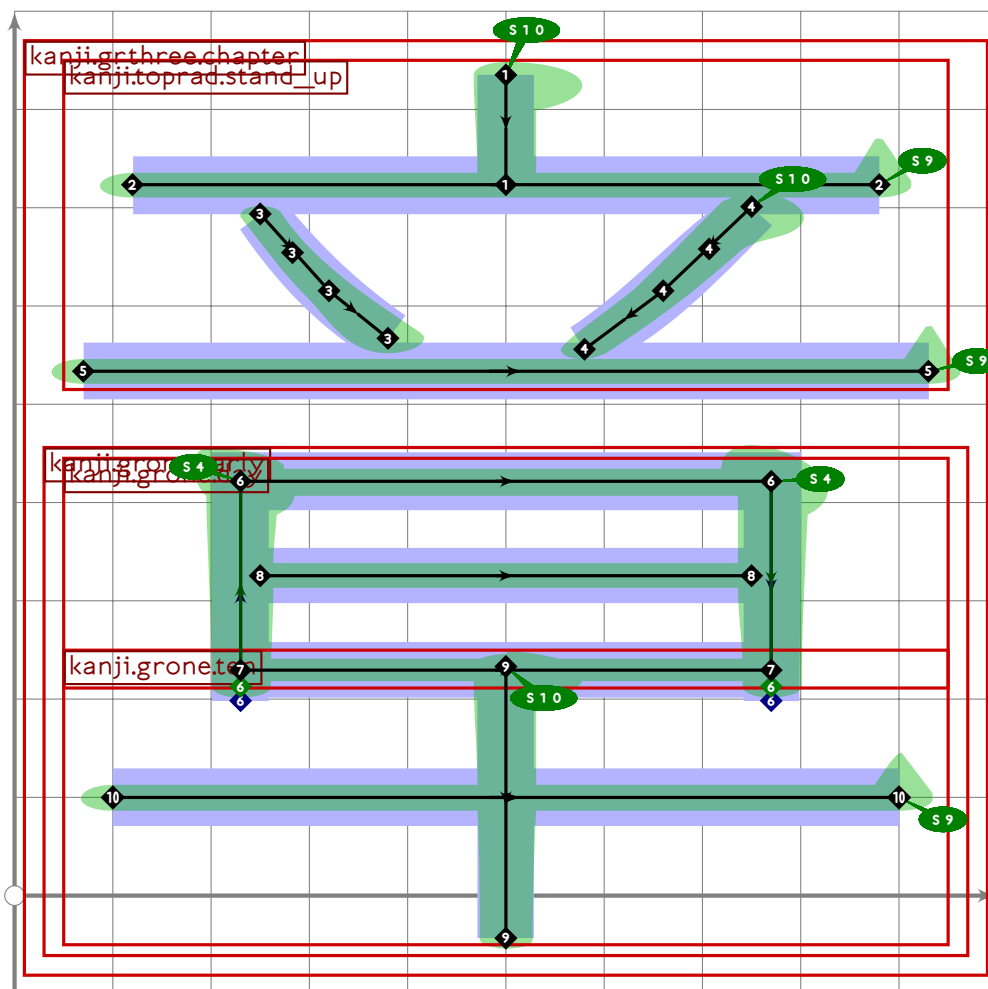
THRE

```

177
178 vardef kanji.grthree.change =
179   push_pbox_toexpand("kanji.grthree.change");
180   build_kanji.level(build_kanji.lr(470,-100)
181     (tsu_xform(identity yscaled 0.98)(kanji.leftrad.person))
182     (kanji.radical.spoon));
183   set_boserif(0,0,10);
184   expand_pbox;
185 enddef;

```

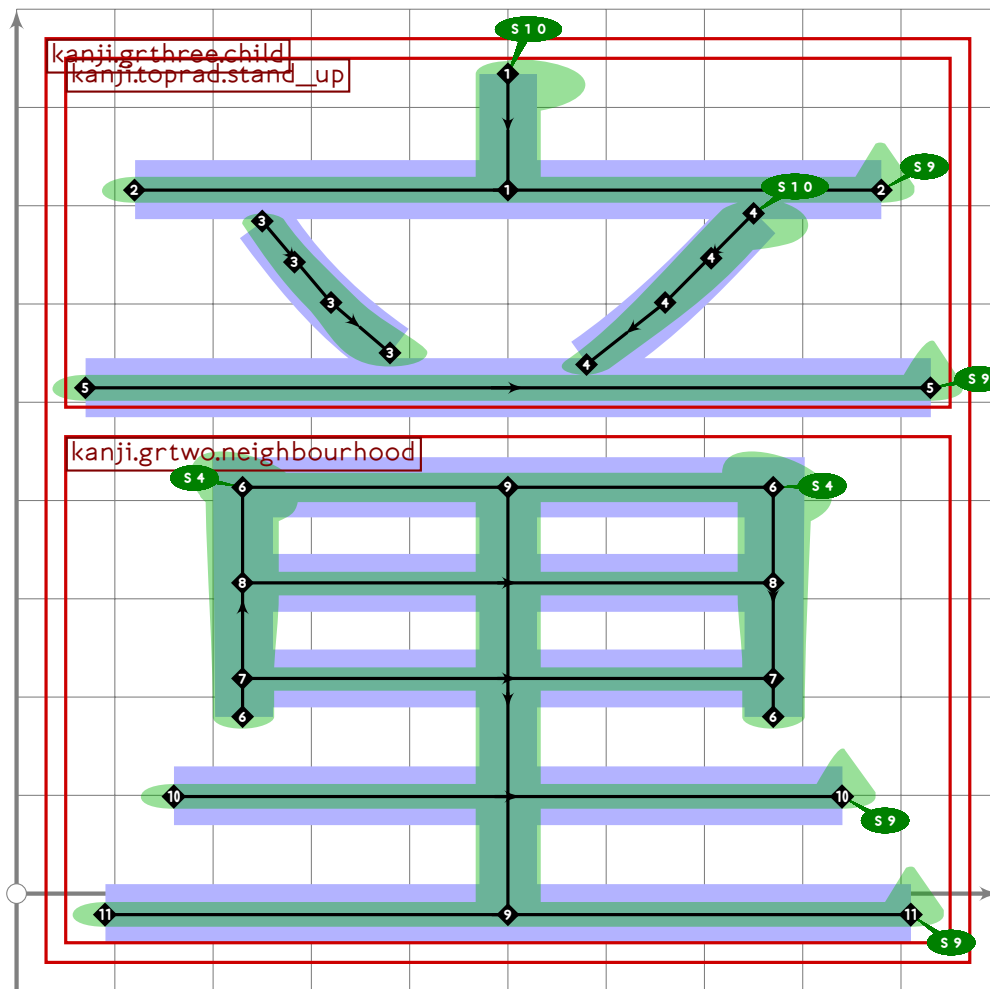
THRE



```

186
187 vardef kanji.grthree.chapter =
188   push_pbox_toexpand("kanji.grthree.chapter");
189   build_kanji.level(build_kanji.tb(480,70)
190     (kanji.toprad.stand_up)
191     (kanji.grthree.early));
192   expand_pbox;
193 enddef;

```



THRE

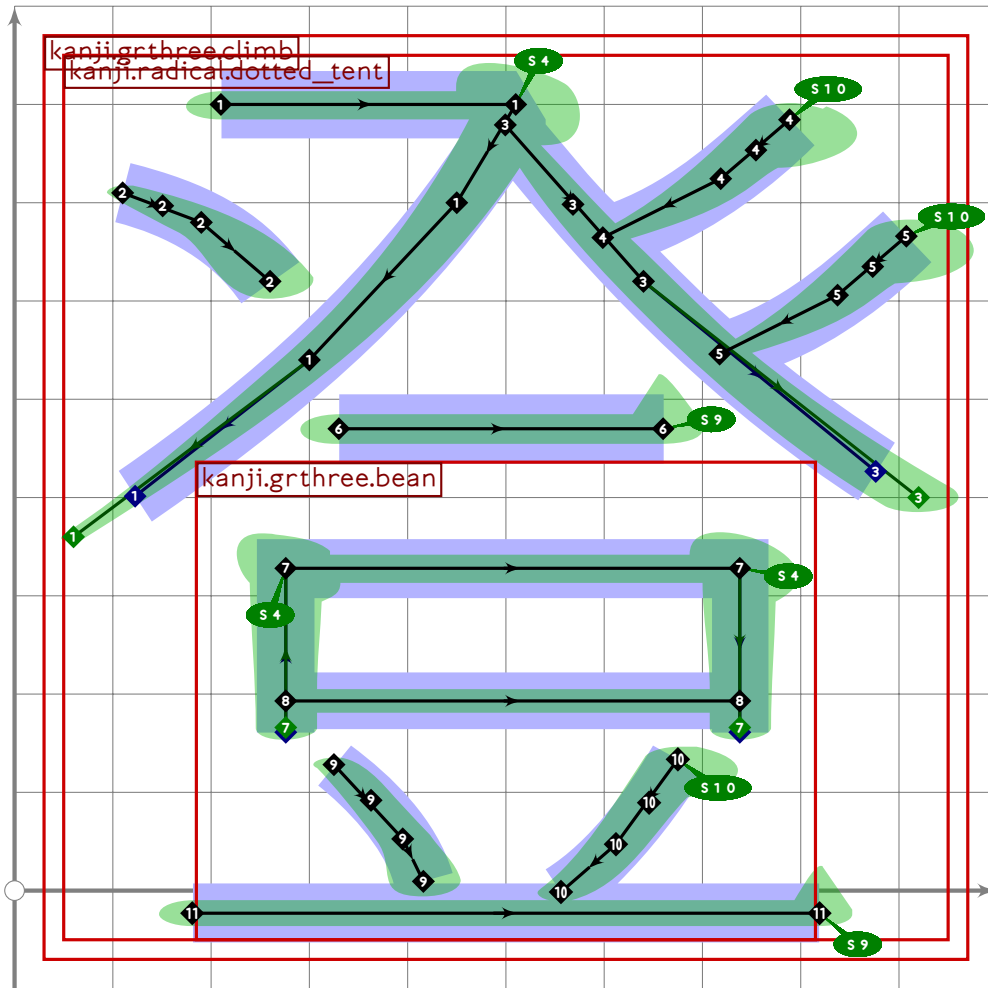
```

194
195 vardef kanji.grthree.child =
196   push_pbox_toexpand("kanji.grthree.child");
197   build_kanji.level(build_kanji.tb(480,30)
198     (kanji.toprad.stand_up)
199     (kanji.grtwo.neighbourhood ));
200   expand_pbox;
201 enddef;

```



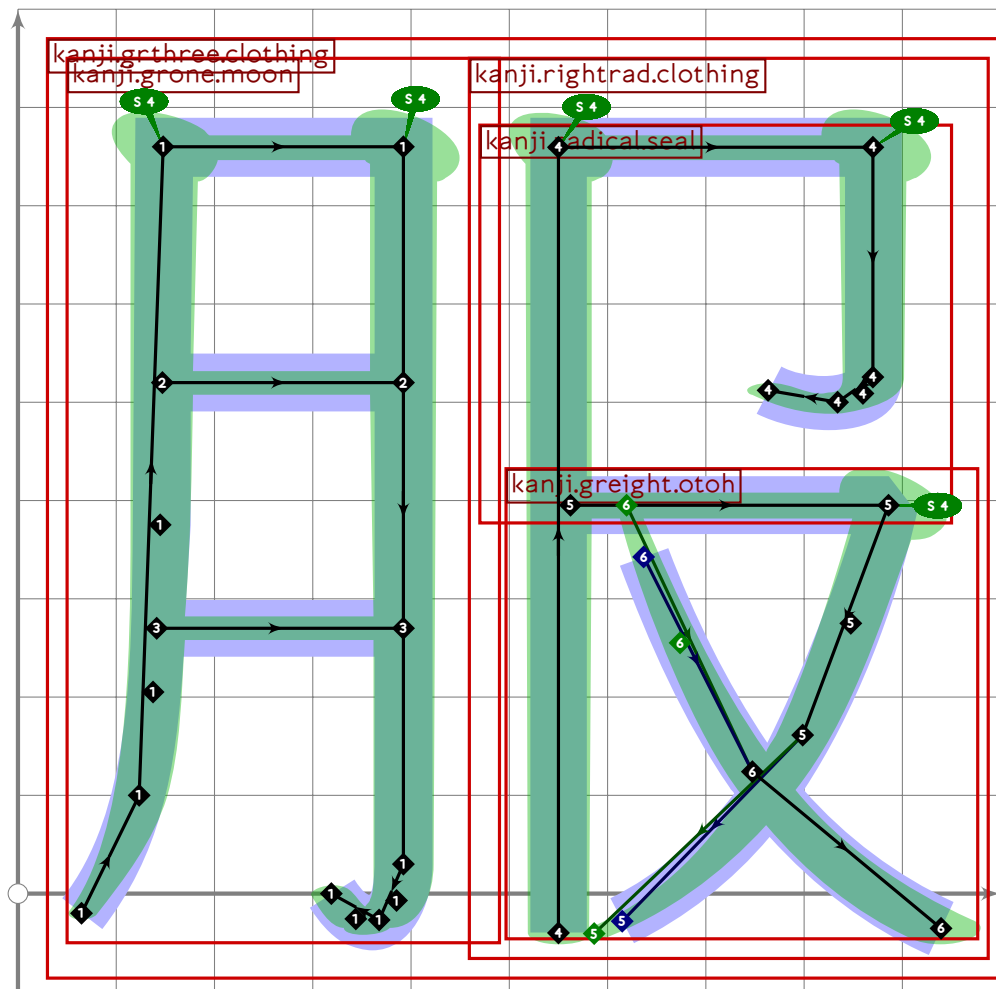
THRE



```

202
203 vardef kanji.grthree.climb =
204   push_pbox_toexpand("kanji.grthree.climb");
205   kanji.radical.dotted_tent;
206   tsu_xform(identity shifted (-500,50) xyscaled (0.70,54) shifted (500,-50))
207     (kanji.grthree.bean);
208   obstacktype[find_whatever(otstroke,-5)]:=otnull;
209   replace_strokep(0)(oldp shifted (-500,0) xscaled 1.2 shifted (500,0));
210   expand_pbox;
211 enddef;

```



THRE

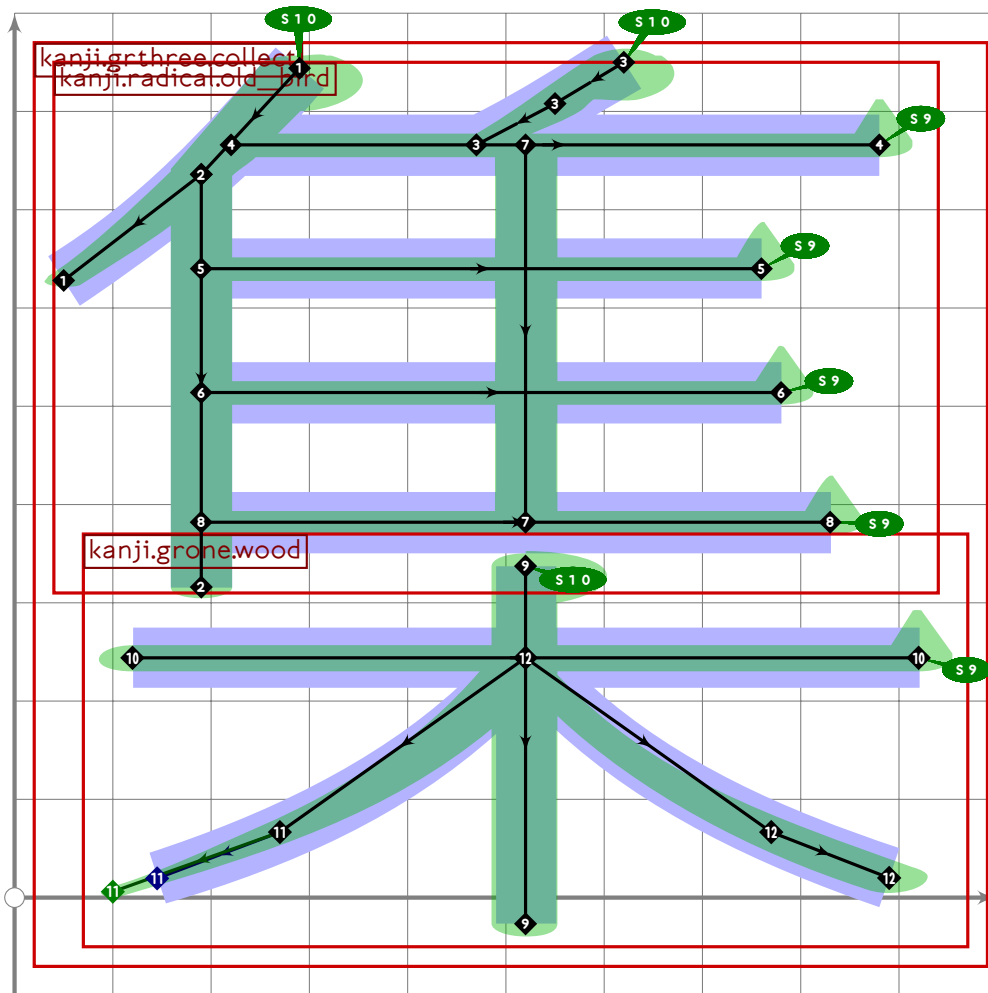
```

212
213 vardef kanji.grthree.clothing =
214   push_pbox_toexpand("kanji.grthree.clothing");
215   build_kanji.level(build_kanji.lr(480,20)
216     (kanji.grone.moon)
217     (kanji.rightrad.clothing));
218   expand_pbox;
219 enddef;

```

U+96C6  
tsuku.uni96C6

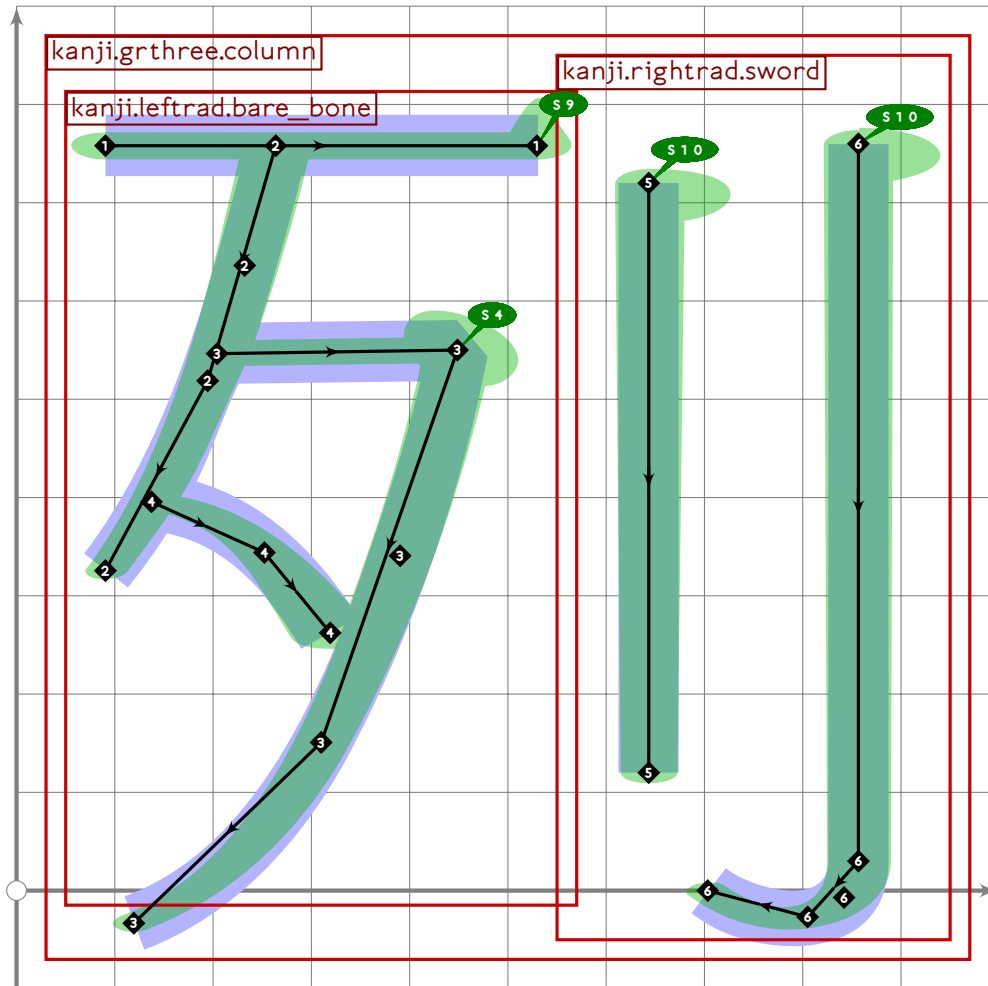
THRE



```

220
221 vardef kanji.grthree.collect =
222   push_pbox_toexpand("kanji.grthree.collect");
223   build_kanji.tb(340,60)
224     (build_kanji.sscale(shifted (-10,0))(kanji.radical.old_bird))
225     (build_kanji.sscale(shifted (20,0))(kanji.grone.wood));
226   expand_pbox;
227 enddef;

```



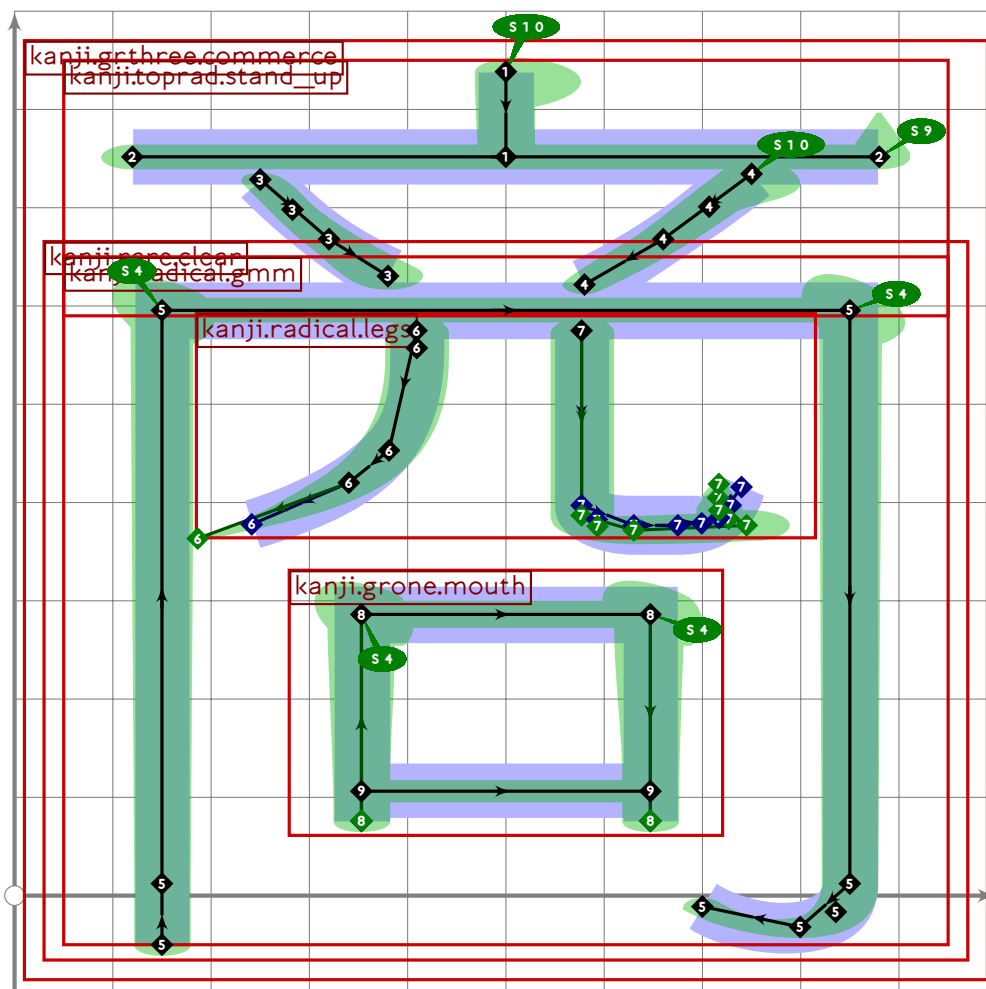
THRE

```

228
229 vardef kanji.grthree.column =
230   push_pbox_toexpand("kanji.grthree.column");
231   build_kanji.level(build_kanji.lr(560,20)
232     (build_kanji.sscale(yscaled 0.92)(kanji.leftrad.bare_bone))
233     (kanji.rightrad.sword));
234   expand_pbox;
235 enddef;

```

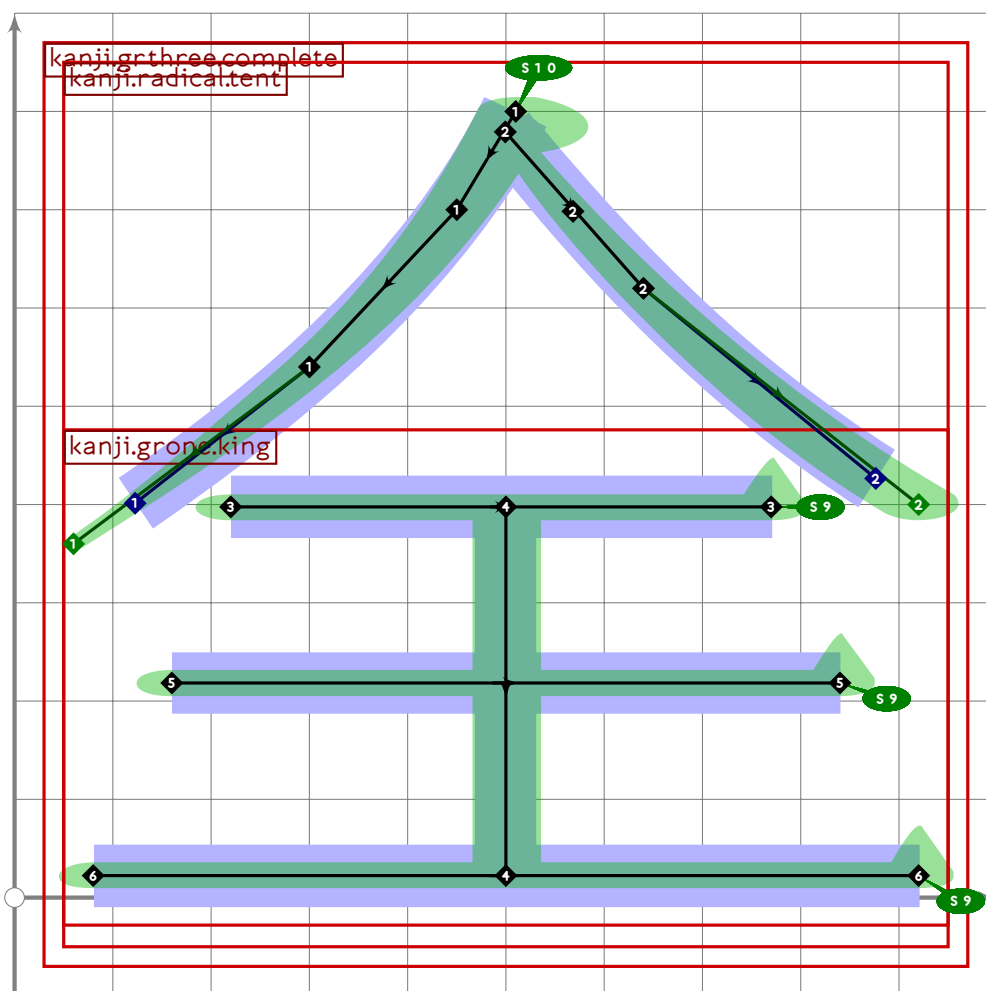
THRE



```

236
237 vardef kanji.grthree.commerce =
238   push_pbox_toexpand("kanji.grthree.commerce");
239   build_kanji.level(build_kanji.tb(620,60)
240     (kanji.toprad.stand_up;
241       pop_stroke)
242     (kanji.rare.clear));
243   expand_pbox;
244 enddef;

```



THRE

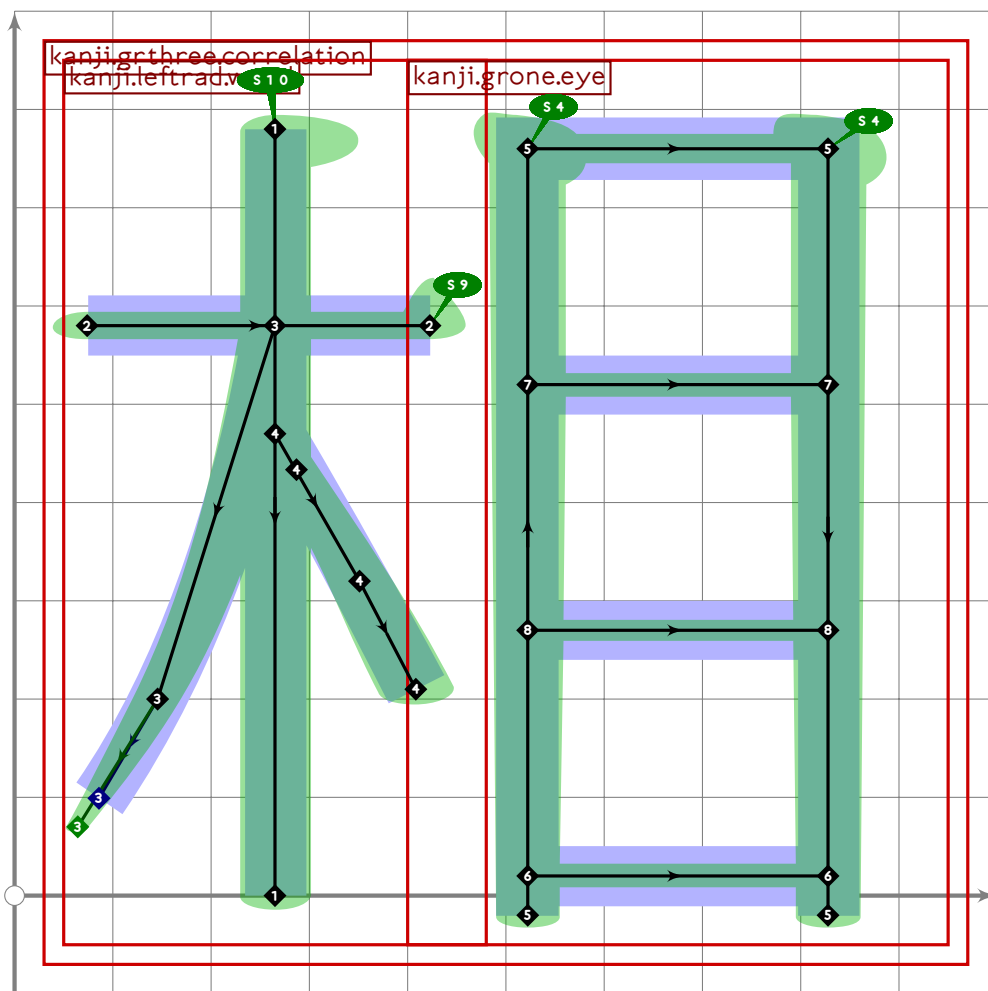
```

245
246 vardef kanji.grthree.complete =
247   push_pbox_toexpand("kanji.grthree.complete");
248   kanji.radical.tent;
249   pop_stroke;
250   tsu_xform(identity yscaled 0.56)(kanji.grone.king);
251   replace_strokep(-3)((220,y part point 0 of oldp)-
252     (770,y part point 1 of oldp));
253   expand_pbox;
254 enddef;

```

U+76F8  
tsuku.uni76F8

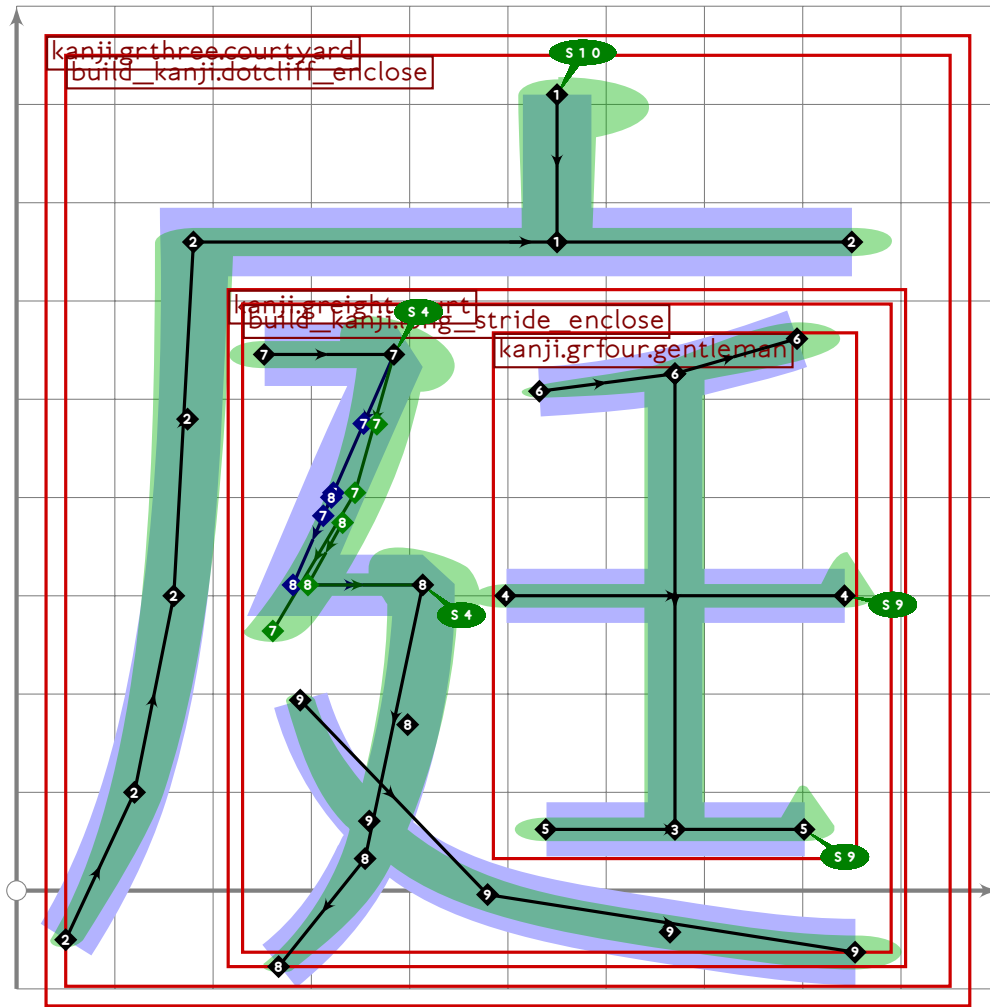
THRE



```

255
256 vardef kanji.grthree.correlation =
257   push_pbox_toexpand("kanji.grthree.correlation");
258   build_kanji.level(build_kanji.lr(440,80)
259     (kanji.leftrad.wood)
260     (kanji.grone.ey));
261   expand_pbox;
262 enddef;

```



THRE

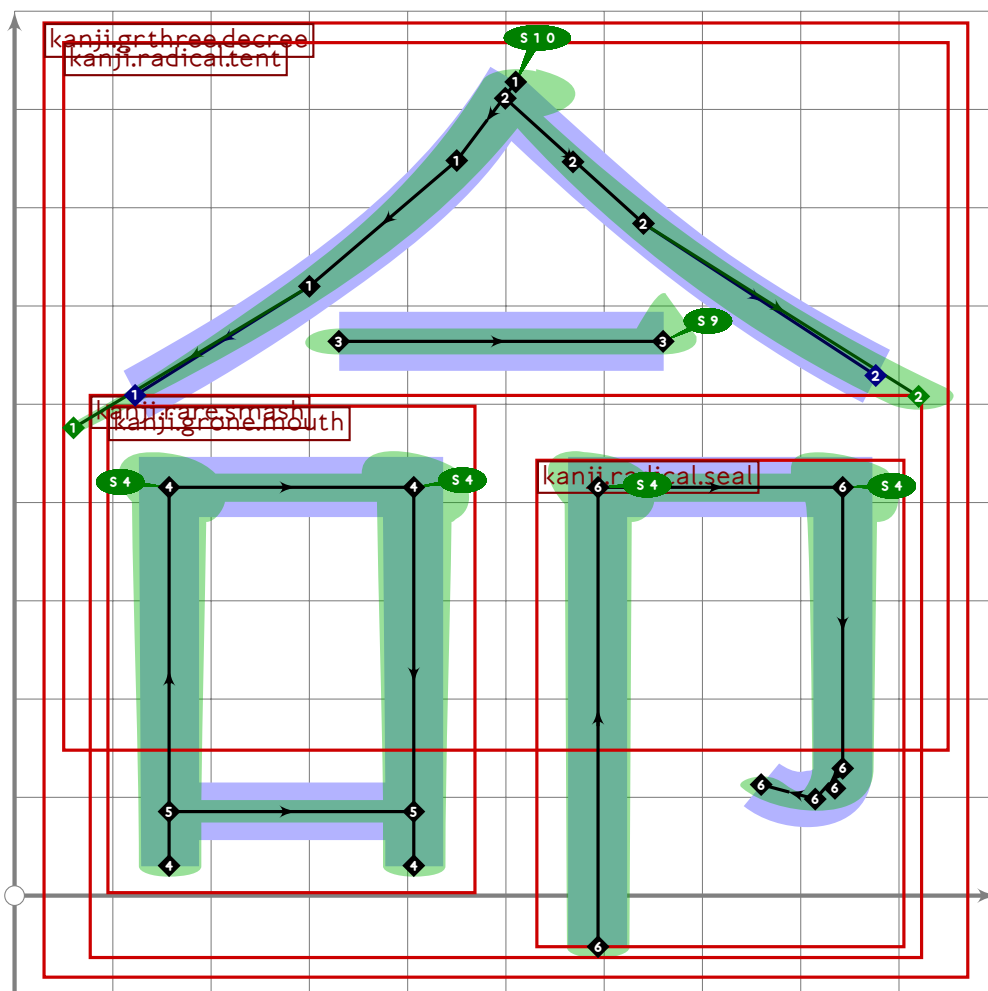
```

263
264 vardef kanji.grthree.courtyard =
265   push_pbox_toexpand("kanji.grthree.courtyard");
266   build_kanji.dotcliff_enclose(
267     build_kanji.sscale(yscaled 0.97 shifted (0,-30))(kanji.greight.court));
268   expand_pbox;
269 enddef;

```



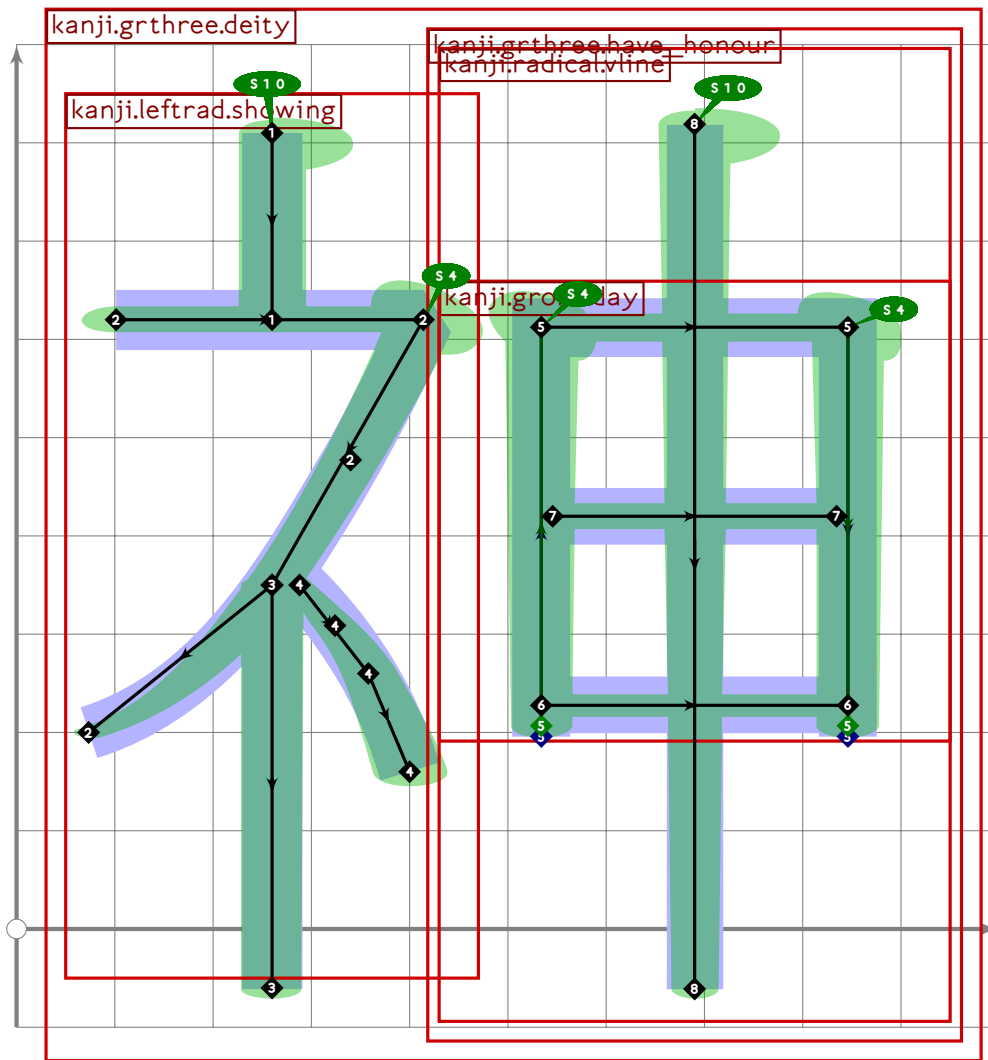
THRE



```

270
271 vardef kanji.grthree.decree =
272   push_pbox_toexpand("kanji.grthree.decree");
273   build_kanji.level(
274     build_kanji.sscale(xyscaled (1,0.8) shifted (0,110))
275     (kanji.radical.tent);
276     build_kanji.sscale(xyscaled (0.9,0.55) shifted (0,-200))
277     (kanji.rare.smash);
278   );
279   expand_pbox;
280 enddef;

```



THRE

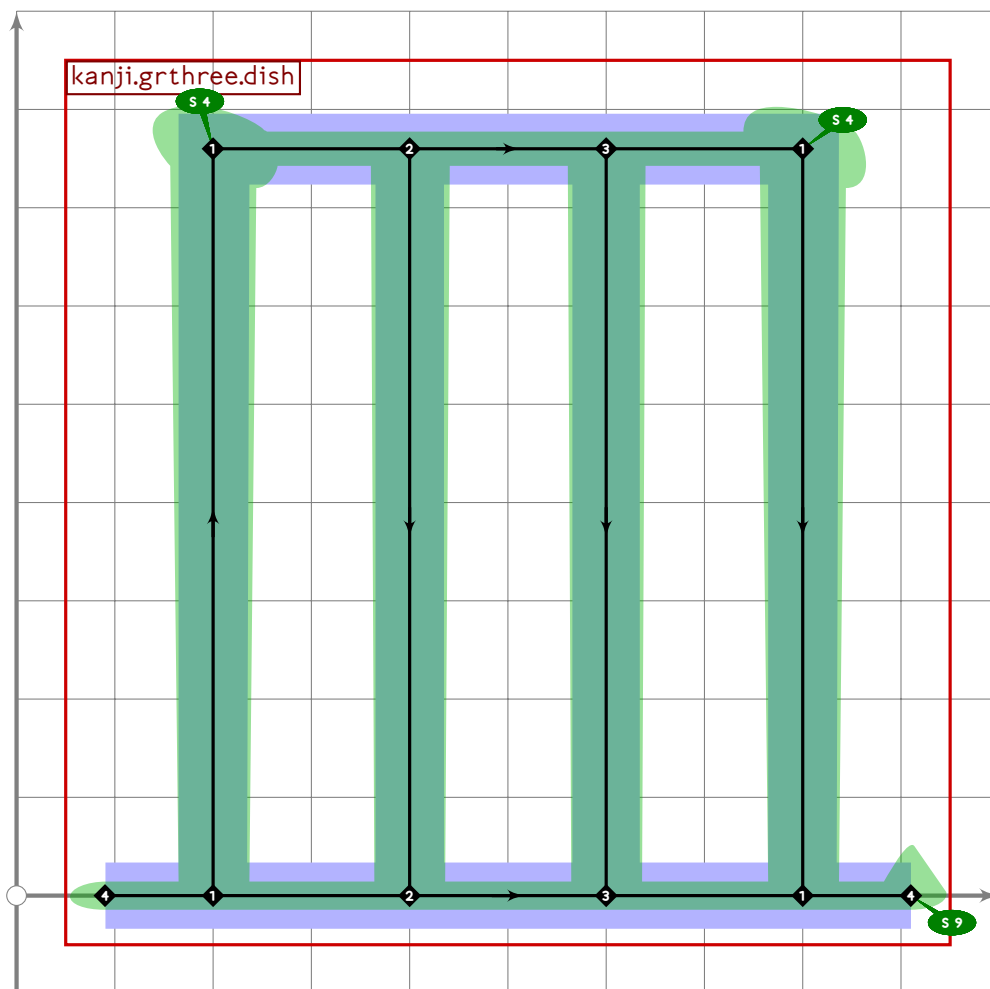
```

281
282 vardef kanji.grthree.deity =
283   push_pbox_toexpand("kanji.grthree.deity");
284   build_kanji.lr(450,40)
285     (kanji.leftrad.showing)
286     (kanji.grthree.have_honour);
287   expand_pbox;
288 enddef;

```

U+76BF  
tsuku.uni76BF

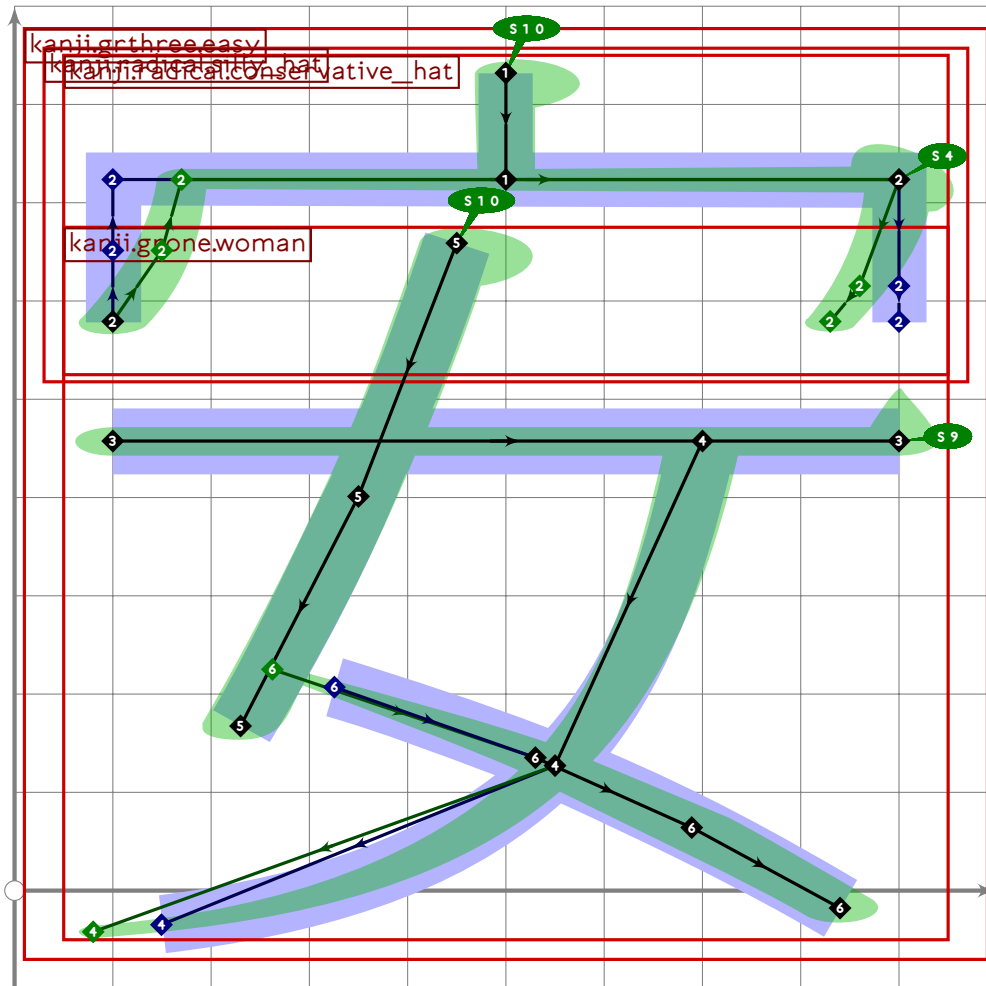
THRE



```

289
290 vardef kanji.grthree.dish =
291   push_pbox_toexpand("kanji.grthree.dish");
292   push_stroke((200,0)–(200,760)–(800,760)–(800,0),
293     (1.5,1.5)–(1.7,1.7)–(1.7,1.7)–(1.5,1.5));
294   set_botip(0,1,1);
295   set_botip(0,2,1);
296   set_boserif(0,1,4);
297   set_boserif(0,2,4);
298   push_stroke((400,760)–(400,0),(1.6,1.6)–(1.5,1.5));
299   push_stroke((600,760)–(600,0),(1.6,1.6)–(1.5,1.5));
300   push_stroke((90,0)–(910,0),(1.5,1.5)–(1.5,1.5));
301   set_boserif(0,1,9);
302   expand_pbox;
303 enddef;

```



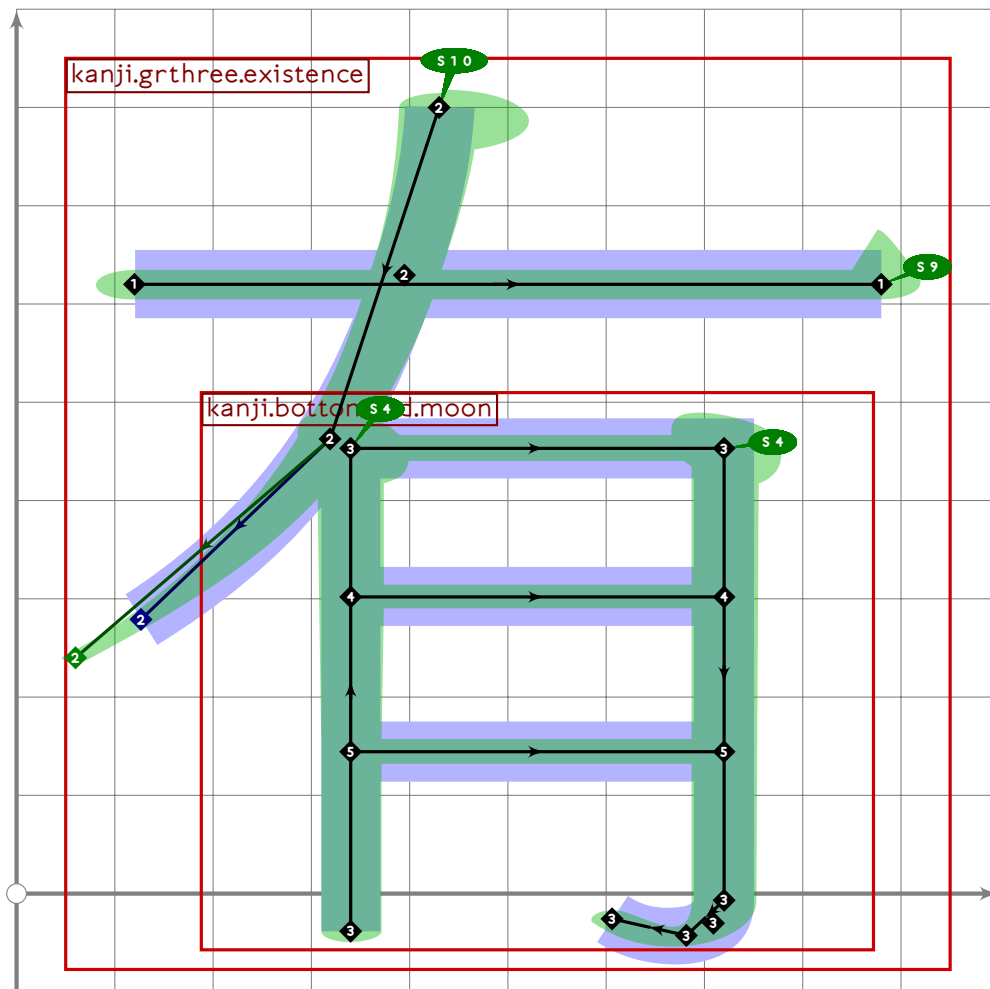
THRE

```

304
305 vardef kanji.grthree.easy =
306   push_pbox_toexpand("kanji.grthree.easy");
307   build_kanji.tb(600,150)
308     (kanji.radical.silly_hat)
309     (kanji.grone.woman);
310   expand_pbox;
311 enddef;

```

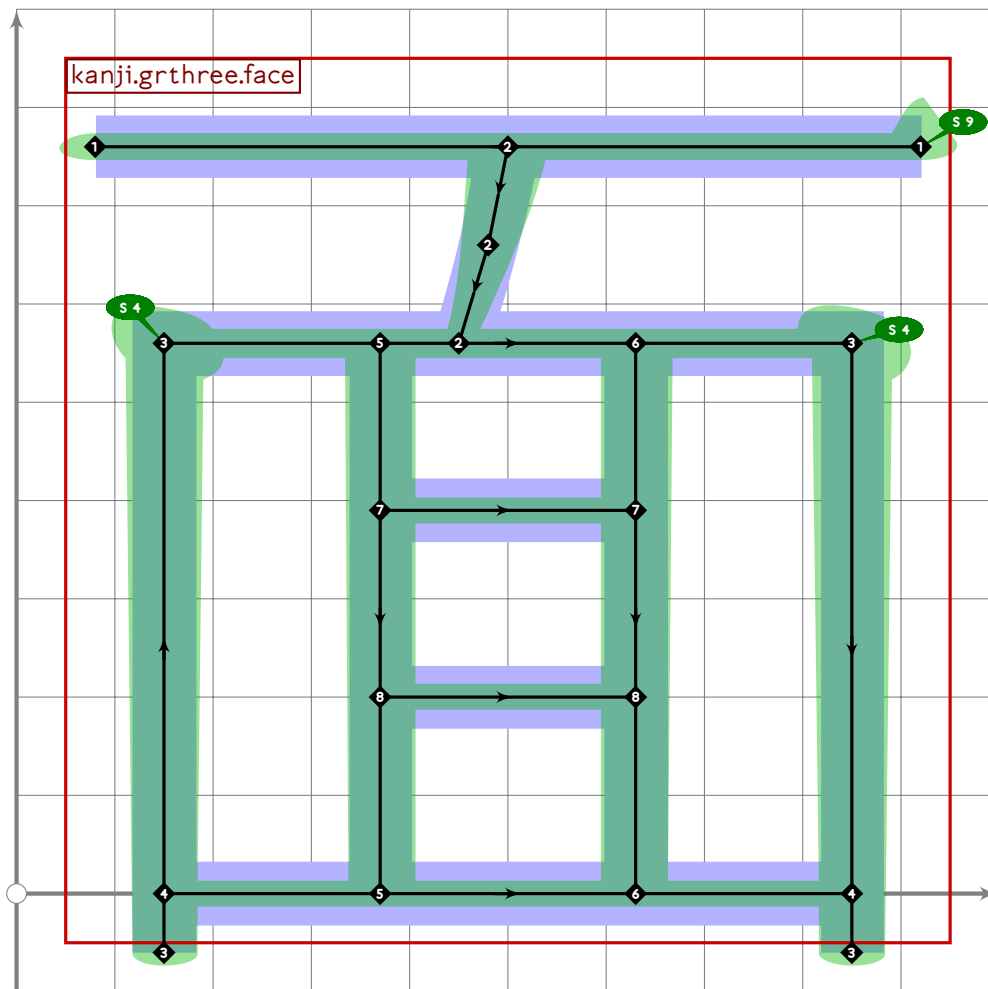
THRE



```

312
313 vardef kanji.grthree.existence =
314   push_pbox_toexpand("kanji.grthree.existence");
315   build_kanji.lean_to((430,240));
316   build_kanji.sscale(xyscaled (0.76,0.63) shifted (30,-170))
317     (kanji.bottomrad.moon);
318   expand_pbox;
319 enddef;

```



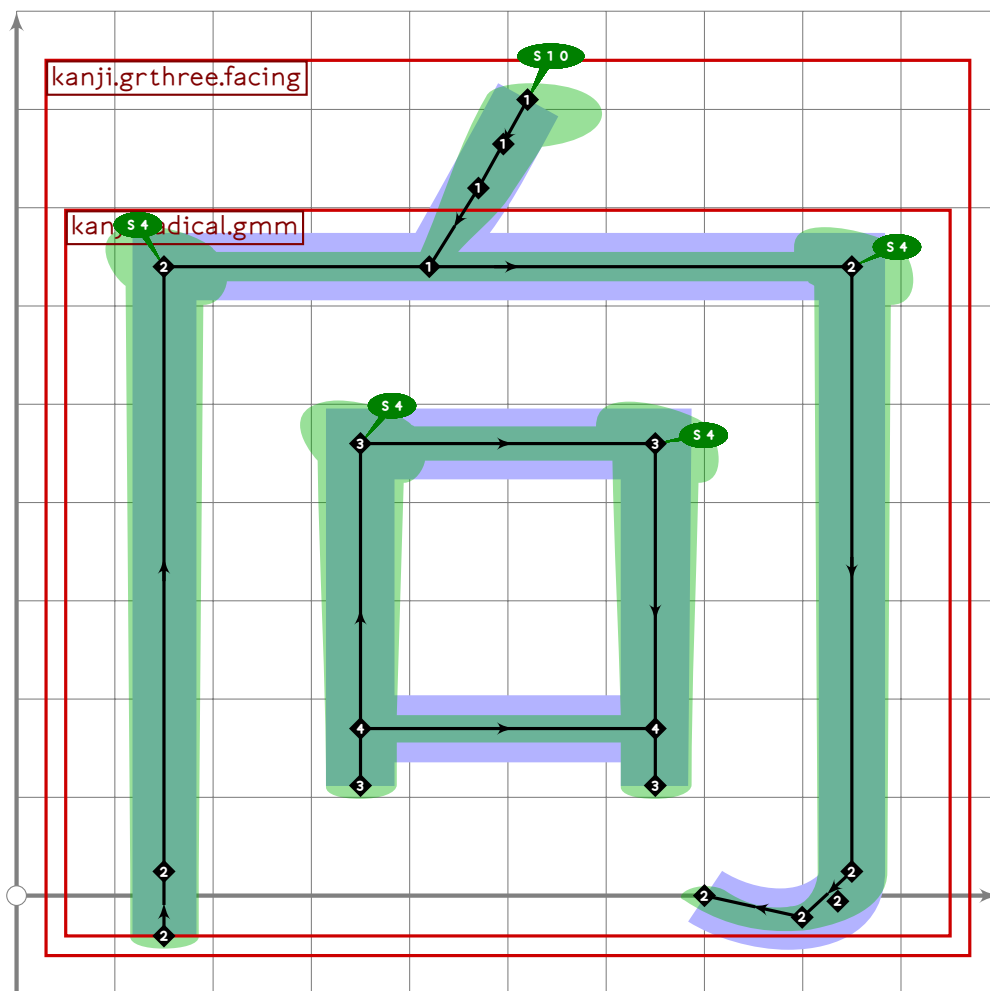
THRE

```

320
321 vardef kanji.grthree.face =
322   push_pbox_toexpand("kanji.grthree.face");
323   push_stroke((80,760)–(920,760),
324     (1.6,1.6)–(1.6,1.6));
325   set_boserif(0,1,9);
326   push_stroke((500,760)..(480,660)..(450,560),
327     (1.7,1.7)–(1.3,1.3)–(1,1));
328   build_kanji.box((150,560),(850,0));
329   push_stroke((370,560)–(370,0),(1.6,1.6)–(1.5,1.5));
330   push_stroke((630,560)–(630,0),(1.6,1.6)–(1.5,1.5));
331   push_stroke((370,390)–(630,390),(1.5,1.5)–(1.5,1.5));
332   push_stroke((370,200)–(630,200),(1.5,1.5)–(1.5,1.5));
333   for i=-7 upto 0: set_bosize(i,92); endfor;
334   expand_pbox;
335 enddef;

```

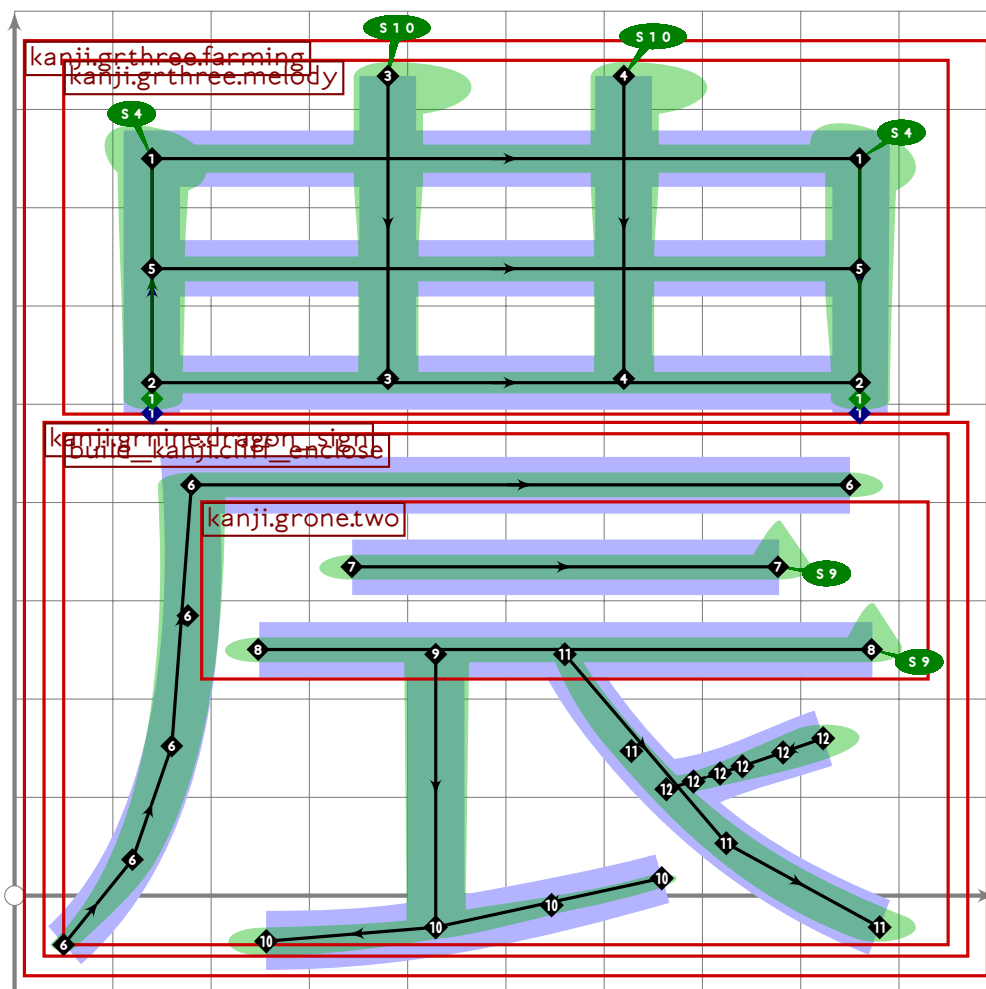
THRE



```

336
337 vardef kanji.grthree.facing =
338   push_pbox_toexpand("kanji.grthree.facing");
339   push_stroke((520,810)..tension 1.2..(470,720)..(420,640),
340     (1,7,1,7)-(1,5,1,5)-(1,1));
341   set_boserif(0,0,10);
342   tsu_xform(identity yscaled (640/780))(kanji.radical.gmm);
343   build_kanji.box((350,460),(650,170));
344   expand_pbox;
345 enddef;

```



THRE

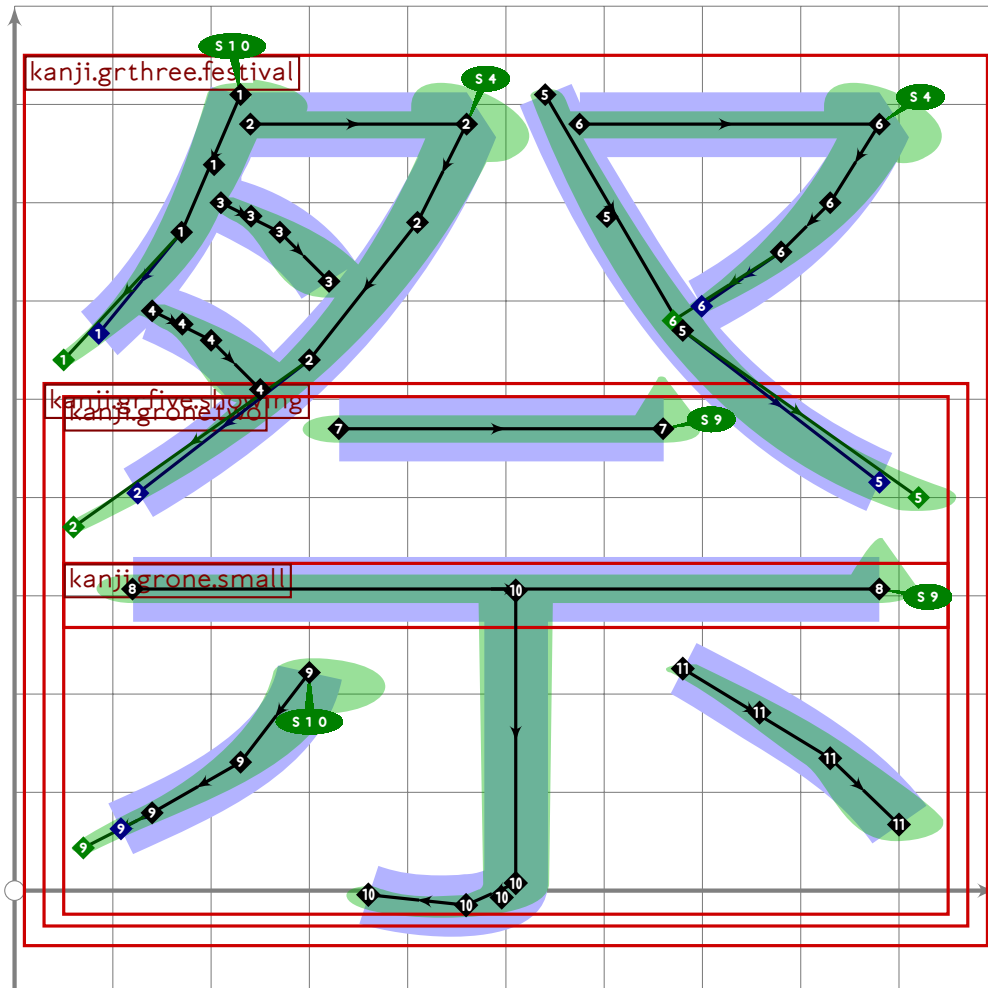
```

346
347 vardef kanji.grthree.farming =
348   push_pbox_toexpand("kanji.grthree.farming");
349   build_kanji.level(build_kanji.tb(480;20)
350     (kanji.grthree.melody)
351     (kanji.grnine.dragon_sign));
352   expand_pbox;
353 enddef;

```



THRE



```

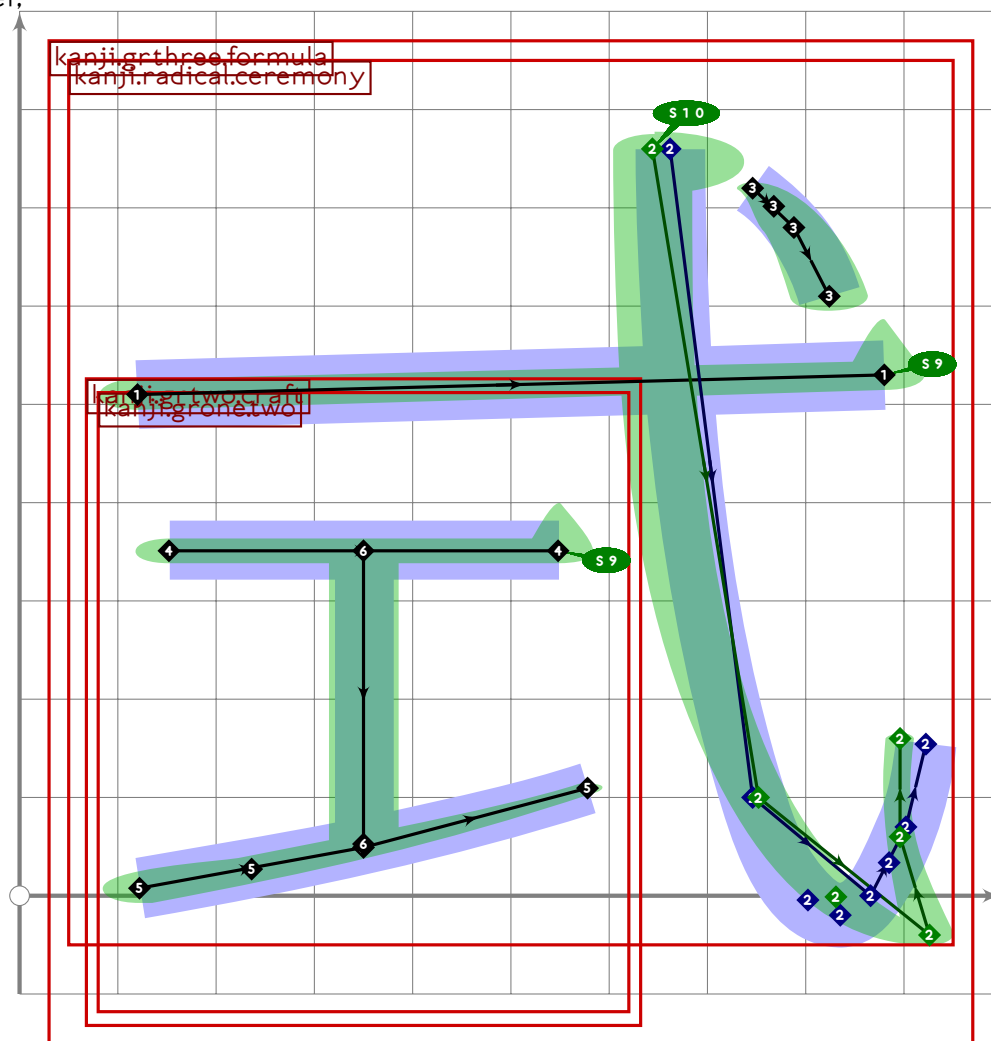
354
355 vardef kanji.grthree.festival =
356   push_pbox_toexpand("kanji.grthree.festival");
357   build_kanji.level(
358     push_stroke((230,810)..tension 1.2..(170,670)..(50,540),
359       (1.5,1.5)–(1.3,1.3)–(0.85,0.9));
360     set_boserif(0,0,10);
361     push_stroke((240,780)–(460,780)..(410,680)..(300,540)..(60,370),
362       (1.5,1.5)–(1.6,1.6)–(1.5,1.5)–(1.3,1.3)–(0.85,0.9));
363     set_boserif(0,1,4);
364     set_botip(0,1,0);
365     push_stroke((210,700)..tension 1.2..(270,670)..(320,620),
366       (1,1)–(1.4,1.4)–(1.7,1.7));
367     push_stroke((140,590)..tension 1.2..(200,560)..(250,510),
368       (1,1)–(1.4,1.4)–(1.7,1.7));
369     push_stroke((540,810)..tension 1.2..(680,570)..(920,400),
370       (1,1)–(1.3,1.3)–(2.25,0.95));
371     push_stroke((575,780)–(880,780)..(830,700)..(780,650)..(670,580),
372       (1.5,1.5)–(1.6,1.6)–(1.5,1.5)–(1.3,1.3)–(0.85,0.9));
373     set_boserif(0,1,4);
374     set_botip(0,1,0);

```

```

375   push_stroke((330,470)-(660,470),(1.6,1.6)-(1.6,1.6));
376   set_boserif(0,1,9);
377   build_kanji.sscale(yscaled 0.6 shifted (0,-150))(kanji.grfive.showing);
378   obstacktype[find_whatever(otstroke,-4)]:=otnull;
379 );
380 expand_pbox;
381 enddef;

```



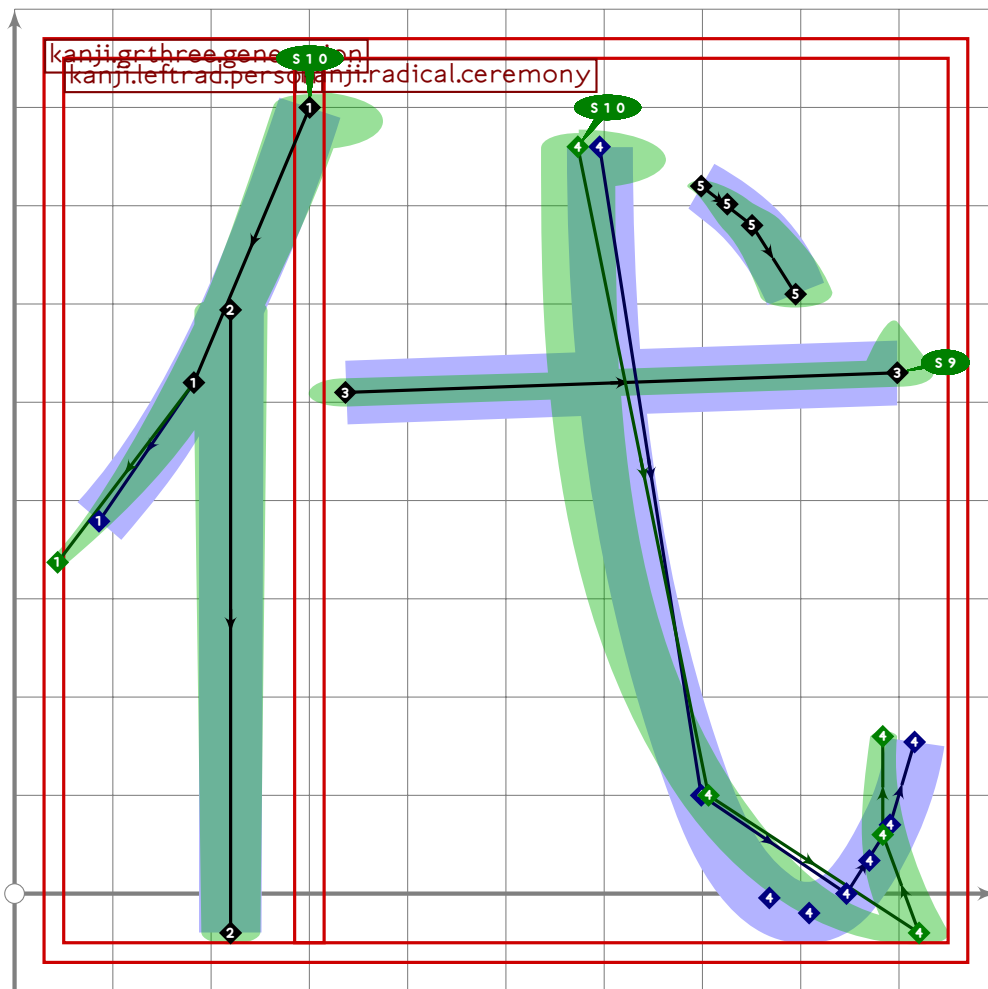
```

382
383 vardef kanji.grthree.formula =
384   push_pbox_toexpand("kanji.grthree.formula");
385   kanji.radical.ceremony;
386   replace_stroke(1)(oldp shifted (-950,0) xscaled 0.6 shifted (950,0));
387   replace_stroke(0)(oldp shifted (-950,0) xscaled 0.6 shifted (950,0));
388   build_kanji.sscale(xyscaled (0.6,0.7) shifted (-150,-200))
389     (build_kanji.lift_skirt(400,250)(kanji.grtwo.craft));
390   expand_pbox;
391 enddef;

```

U+4EE3  
tsuku.uni4EE3

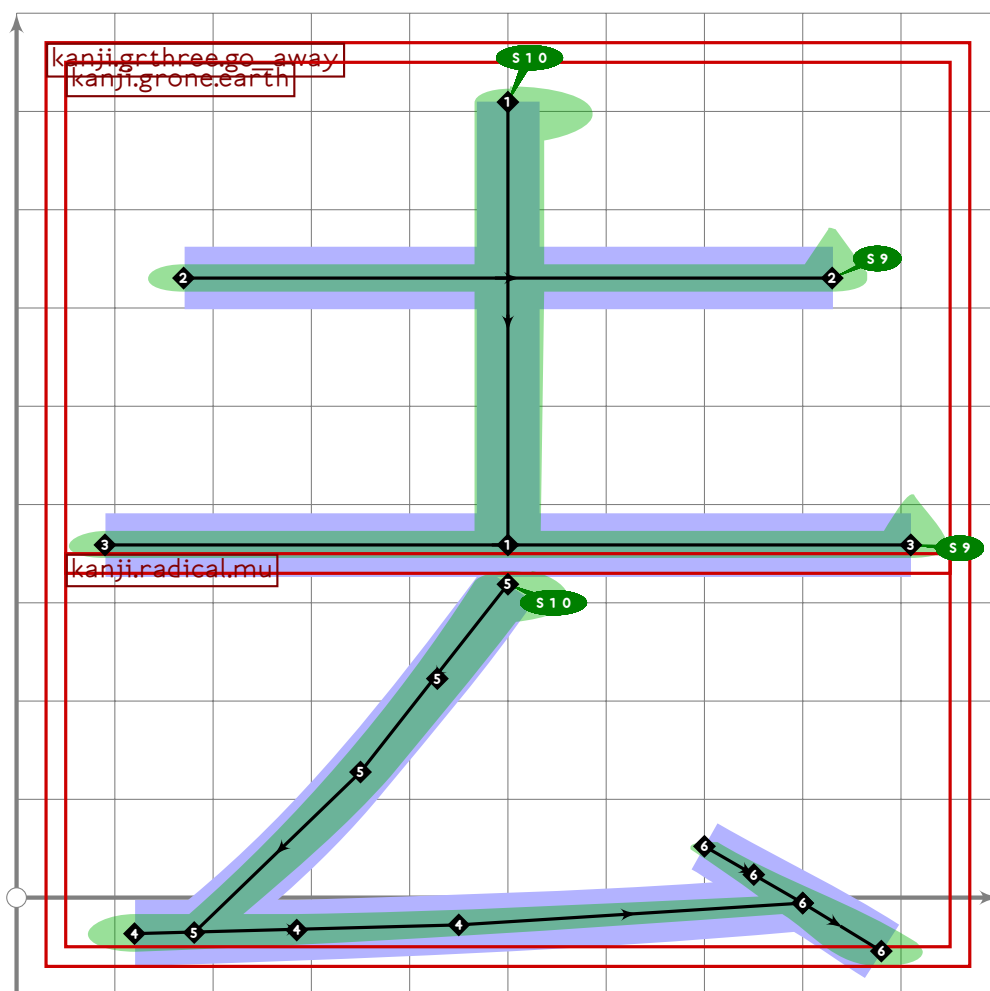
THRE



```

392
393 vardef kanji.grthree.generation =
394   push_pbox_toexpand("kanji.grthree.generation");
395   build_kanji.lr(300,30)
396     (kanji.leftrad.person)
397     (kanji.radical.ceremony);
398   expand_pbox;
399 enddef;

```



THRE

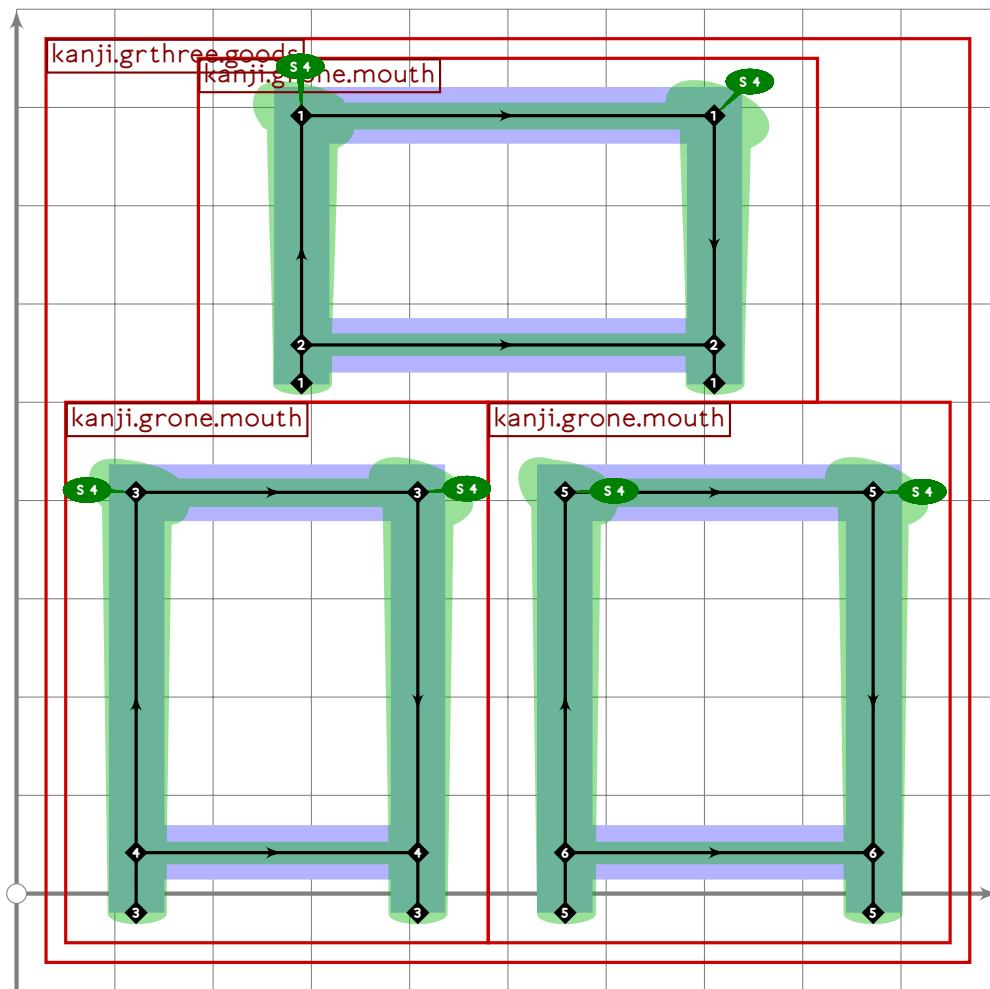
```

400
401 vardef kanji.grthree.go_away =
402   push_pbox_toexpand("kanji.grthree.go_away");
403   build_kanji.tb(340,20)
404     (kanji.grone.earth)
405     (kanji.radical.mu);
406   expand_pbox;
407 enddef;

```

U+54C1  
tsuku.uni54C1

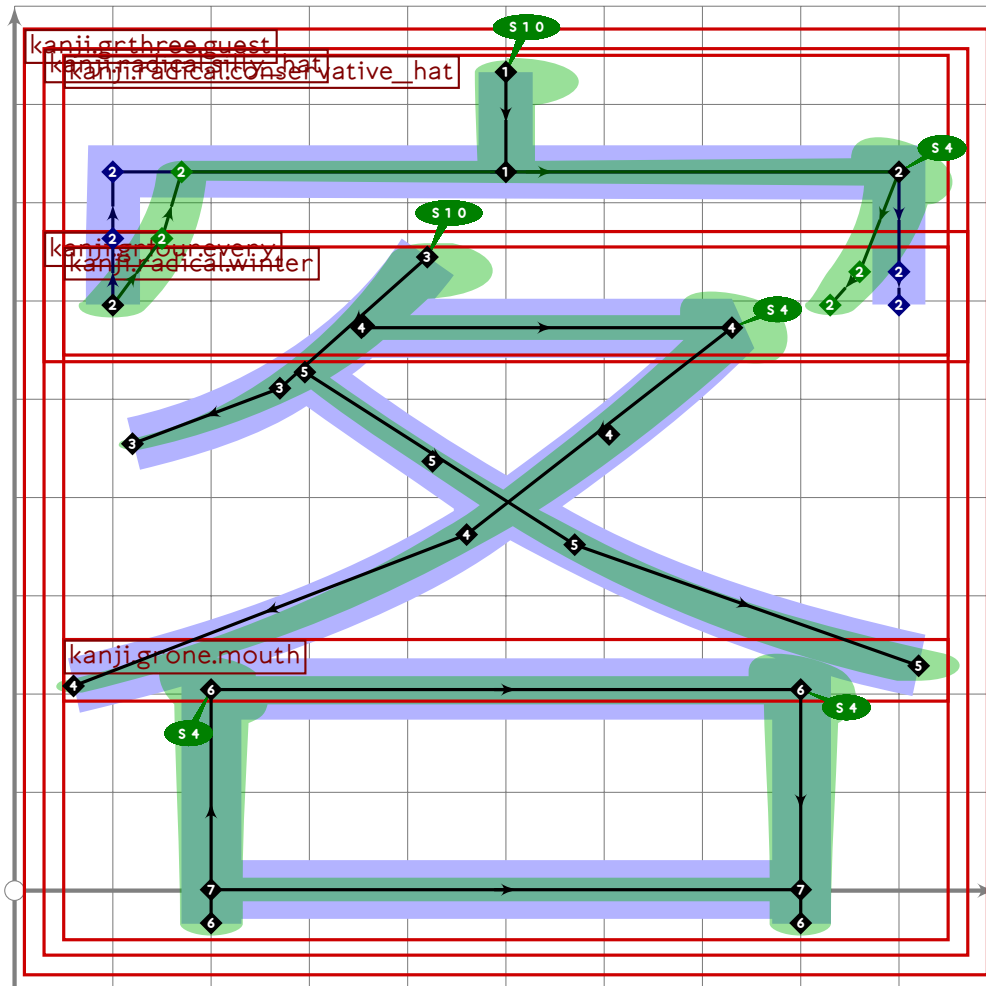
THRE



```

408
409 vardef kanji.grthree.goods =
410   push_pbox_toexpand("kanji.grthree.goods");
411   build_kanji.level(build_kanji.tricluster(0.7)
412     (kanji.grone.mouth)
413     (kanji.grone.mouth)
414     (kanji.grone.mouth));
415   expand_pbox;
416 enddef;

```



THRE

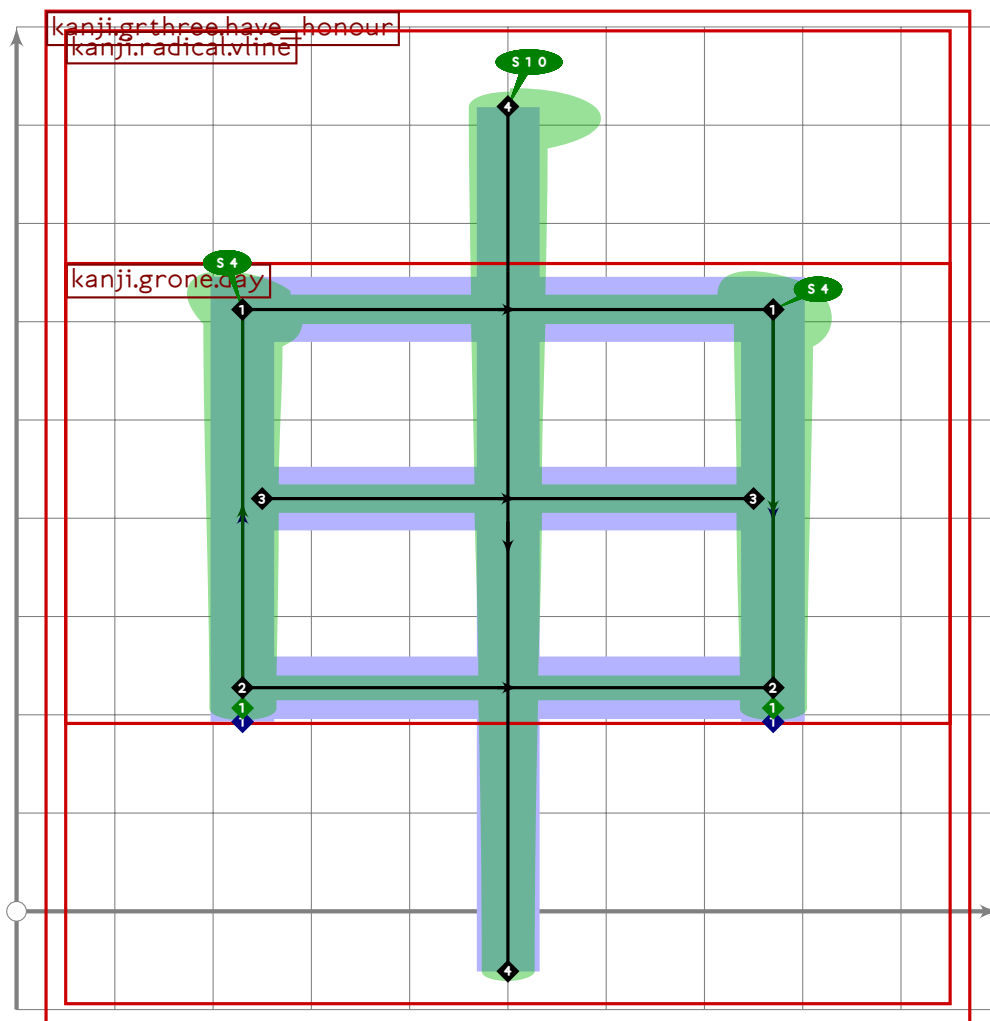
```

417
418 vardef kanji.grthree.guest =
419   push_pbox_toexpand("kanji.grthree.guest");
420   build_kanji.tb(600,110)
421     (kanji.radical.silly_hat)
422     (kanji.grfour.every);
423   expand_pbox;
424 enddef;

```

U+7533  
tsuku.uni7533

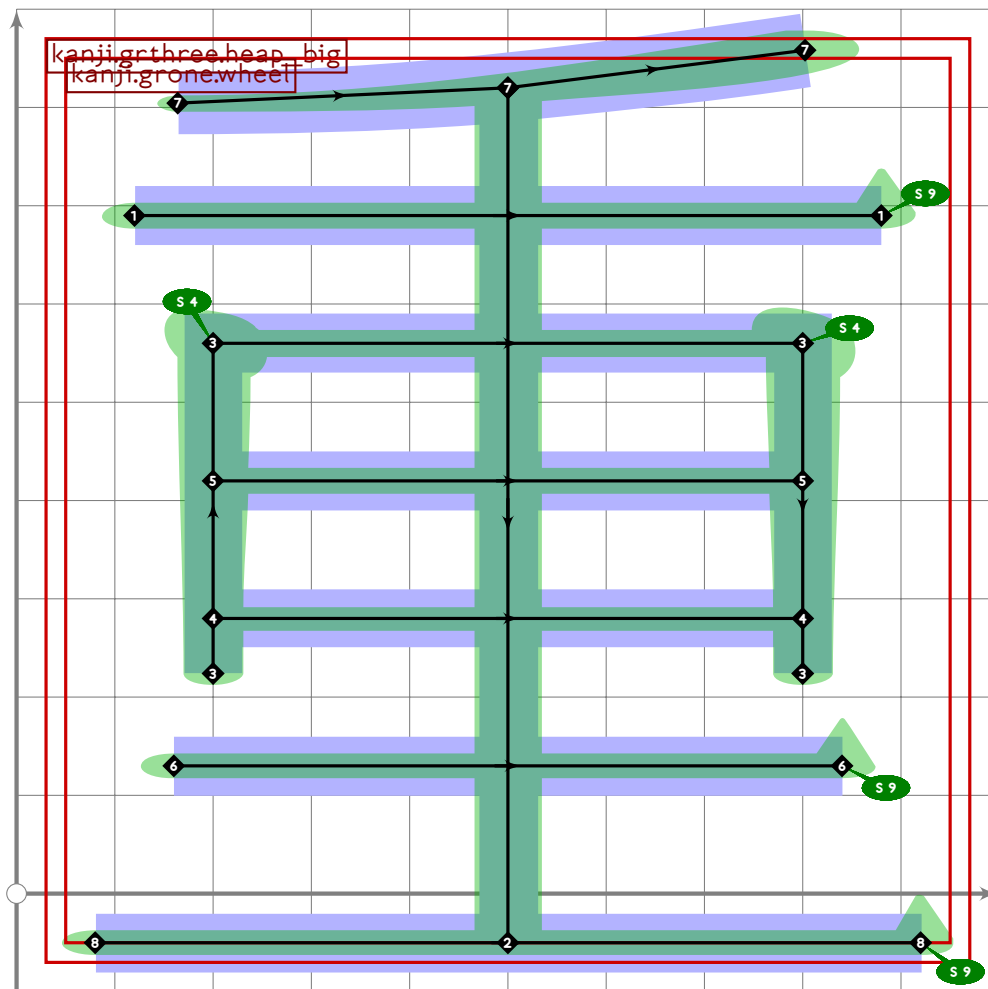
THRE



```

425
426 vardef kanji.grthree.have_honour =
427   push_pbox_toexpand("kanji.grthree.have_honour");
428   build_kanji.level(
429     build_kanji.sscale(yscaled 0.52 shifted (0,30))(kanji.grone.day);
430     build_kanji.sscale(yscaled 1.1)(kanji.radical.vline));
431   expand_pbox;
432 enddef;

```



THRE

```

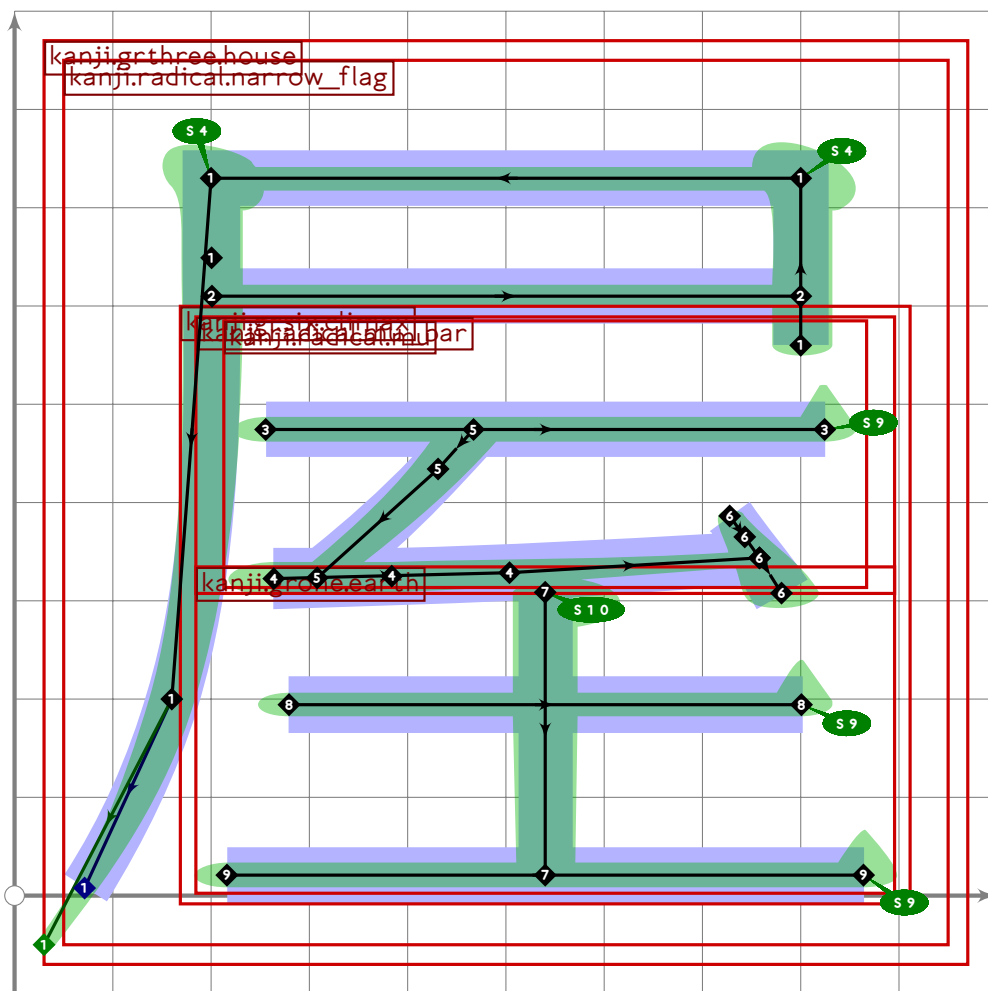
433
434 vardef kanji.grthree.heap_big =
435   push_pbox_toexpand("kanji.grthree.heap_big");
436   build_kanji.add_beret(kanji.grone.wheel);
437   push_stroke(get_stroke(-1),(1.6,1.6)-(1.6,1.6));
438   replace_stroke(0)(oldp shifted (0,-50-ypart llcorner oldp));
439   replace_stroke(-2)
440     ((160,ypart point 0 of oldp)-(840,ypart point 1 of oldp));
441   set_bosertif(0,1,9);
442   set_bosize(0,get_bosize(-2));
443   expand_pbox;
444 enddef;

```



U+5C4B  
tsuku.uni5C4B

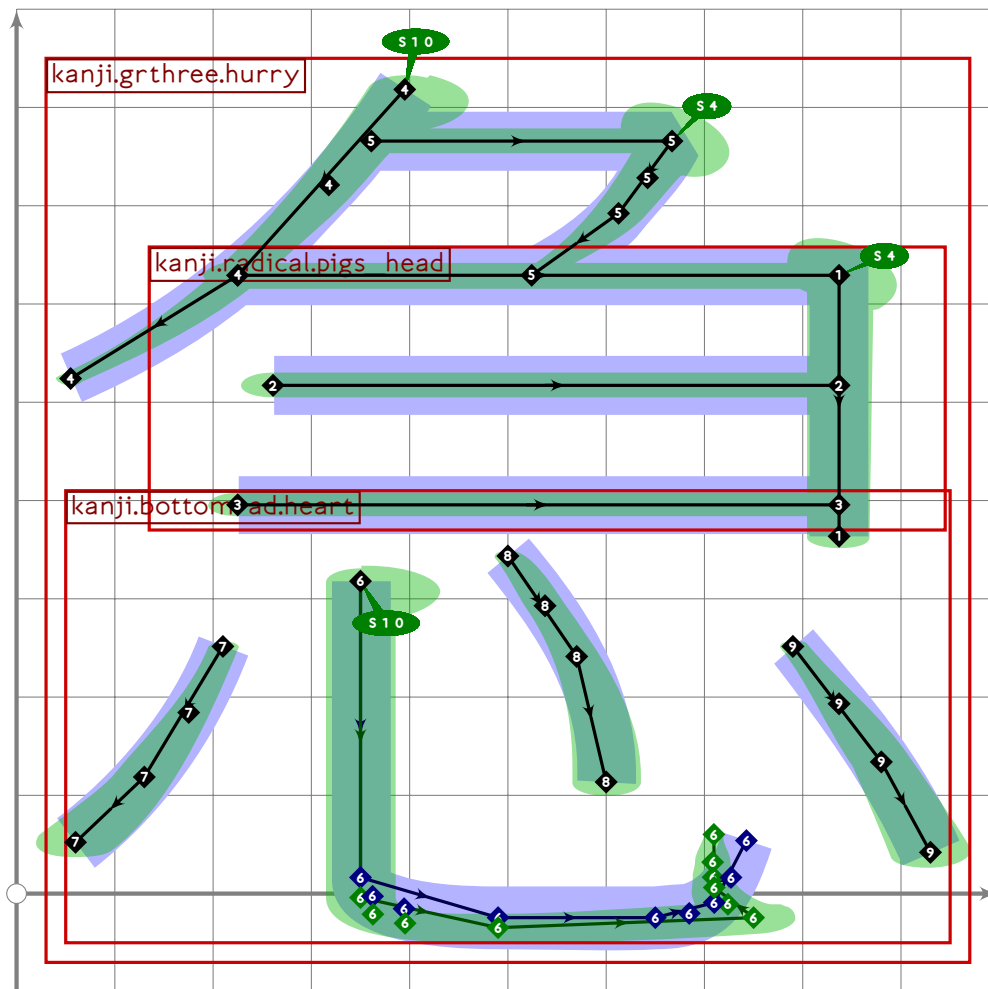
THRE



```

445
446 vardef kanji.grthree.house =
447   push_pbox_toexpand("kanji.grthree.house");
448   build_kanji.level(
449     kanji.radical.narrow_flag;
450     build_kanji.sscale(xyscaled (0.79,0.54) shifted (40,-150))
451     (kanji.grsix.climax));
452   expand_pbox;
453 enddef;

```



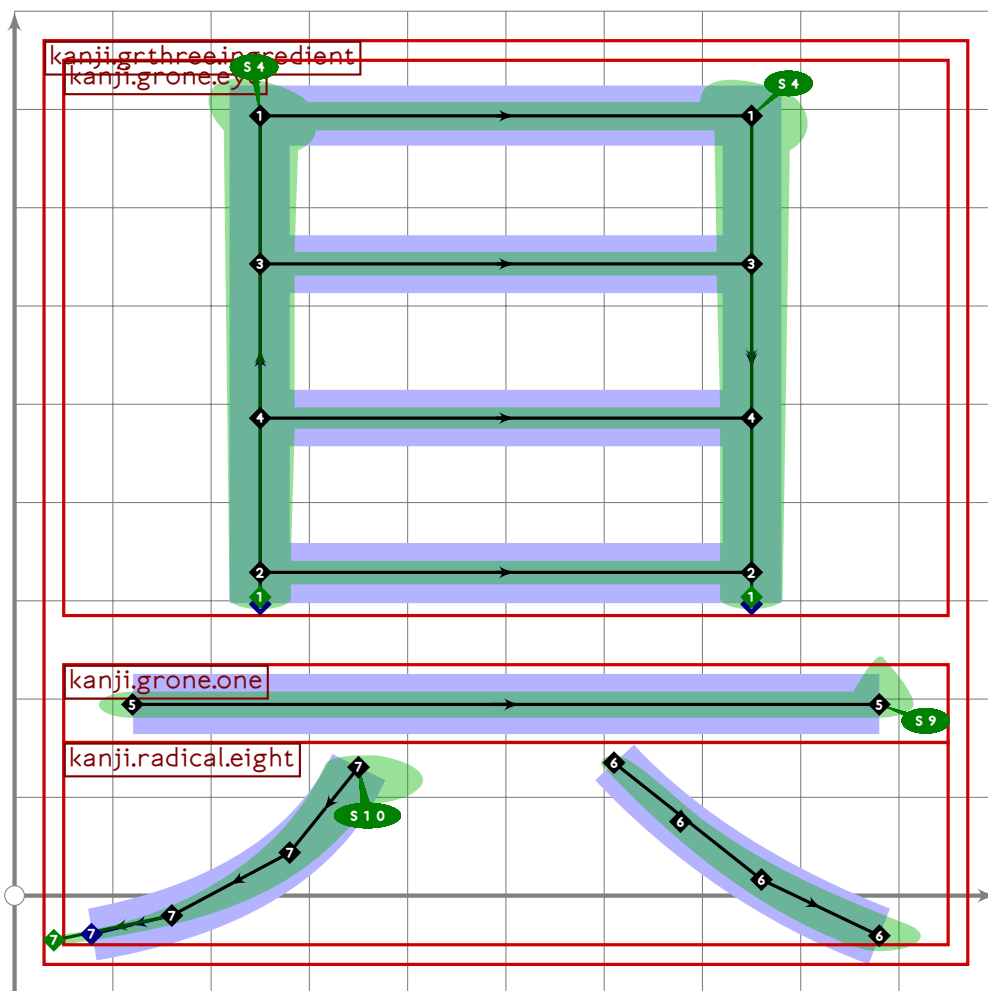
THRE

```

454
455 vardef kanji.grthree.hurry =
456   push_pbox_toexpand("kanji.grthree.hurry");
457   build_kanji.level(build_kanji.tb(390,40)
458     (build_kanji.sscale(xscaled 0.9 shifted (40,0))
459       (build_kanji.attach_fishhook(0.6)
460         (kanji.radical.pigs_head)))
461     (kanji.bottomrad.heart));
462   expand_pbox;
463 enddef;

```

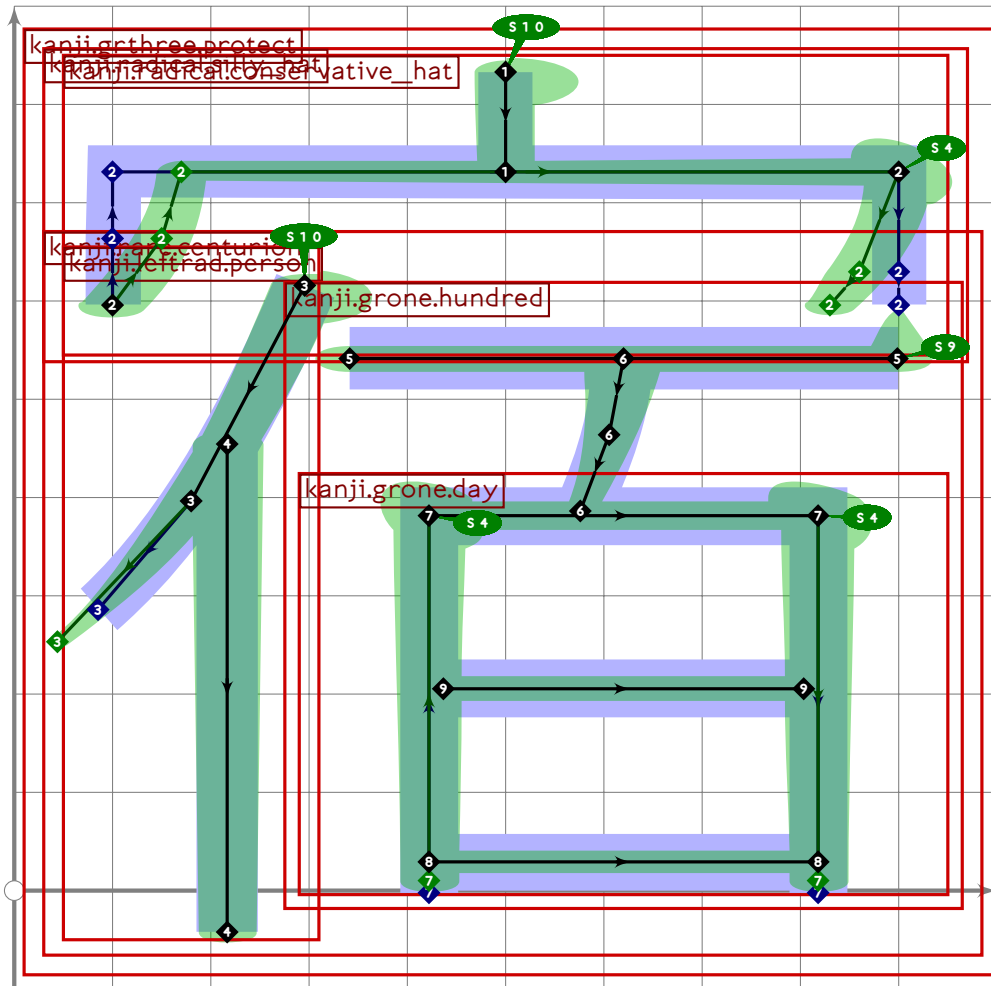
THRE



```

464
465 vardef kanji.grthree.ingredient =
466   push_pbox_toexpand("kanji.grthree.ingredient");
467   build_kanji.level(build_kanji.tb(260,50)
468     (kanji.grone.ey)
469     (build_kanji.tb(600,0)
470       (kanji.grone.one)
471       (kanji.radical.eight)));
472   expand_pbox;
473 enddef;

```



THRE

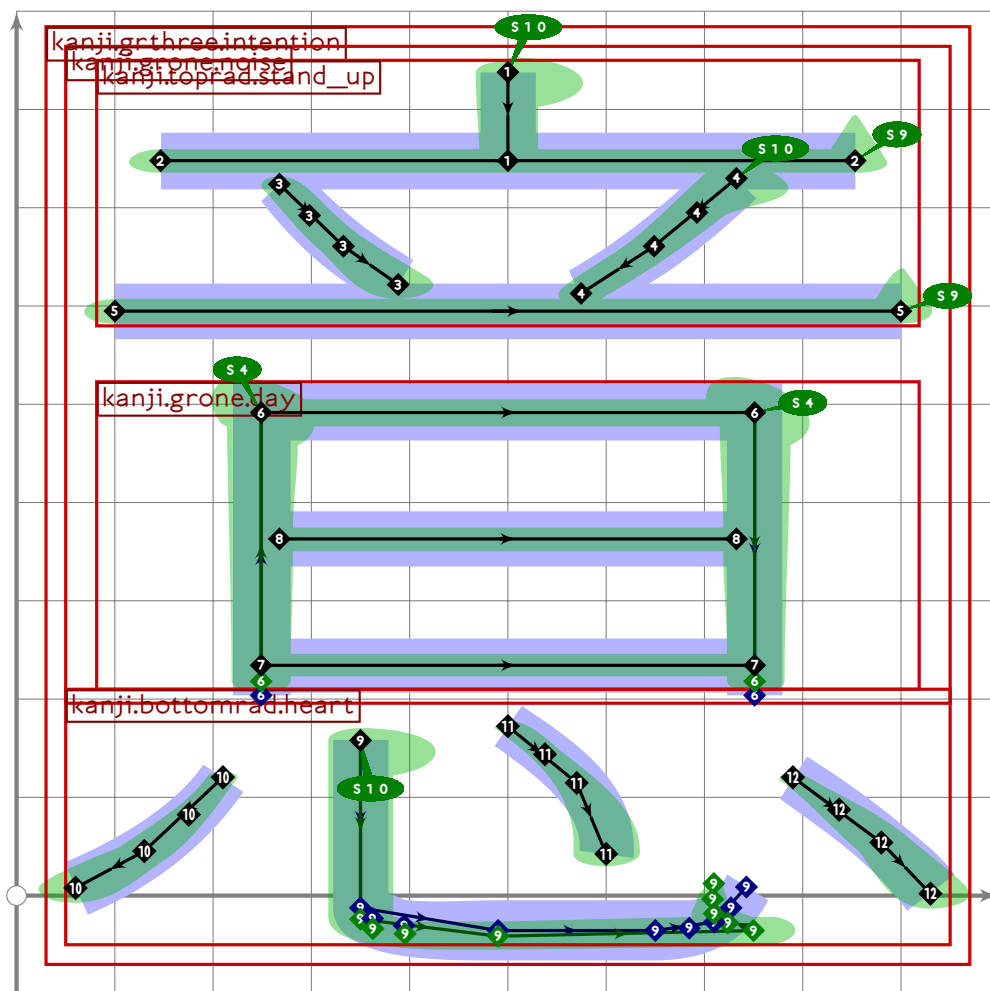
```

474
475 vardef kanji.grthree.inn =
476   push_pbox_toexpand("kanji.grthree.protect");
477   build_kanji.tb(600,110)
478     (kanji.radical.silly_hat)
479     (kanji.rare.centurion);
480   expand_pbox;
481 enddef;

```

U+610F  
tsuku.uni610F

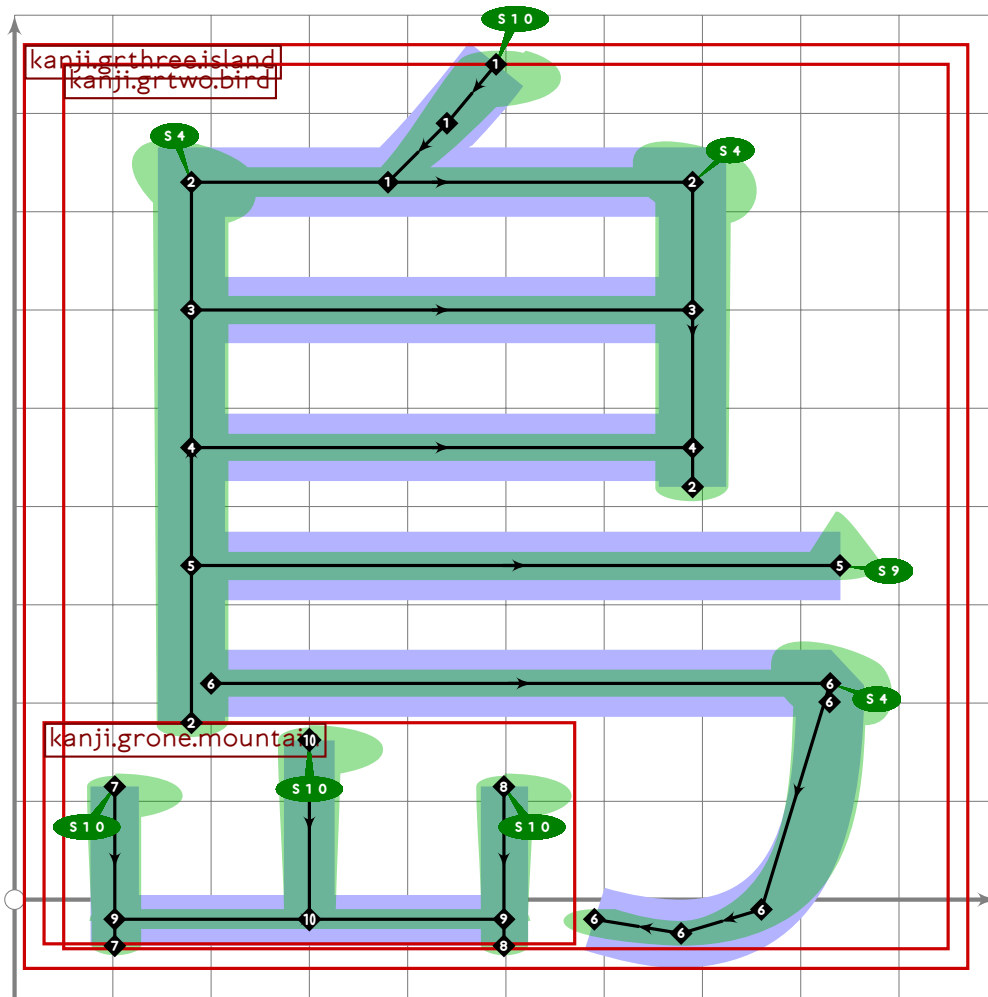
THRE



```

482
483 vardef kanji.grthree.intention =
484   push_pbox_toexpand("kanji.grthree.intention");
485   build_kanji.level(build_kanji.tb(210,0)
486     (kanji.grone.noyse)
487     (kanji.bottomrad.heart));
488   expand_pbox;
489 enddef;

```



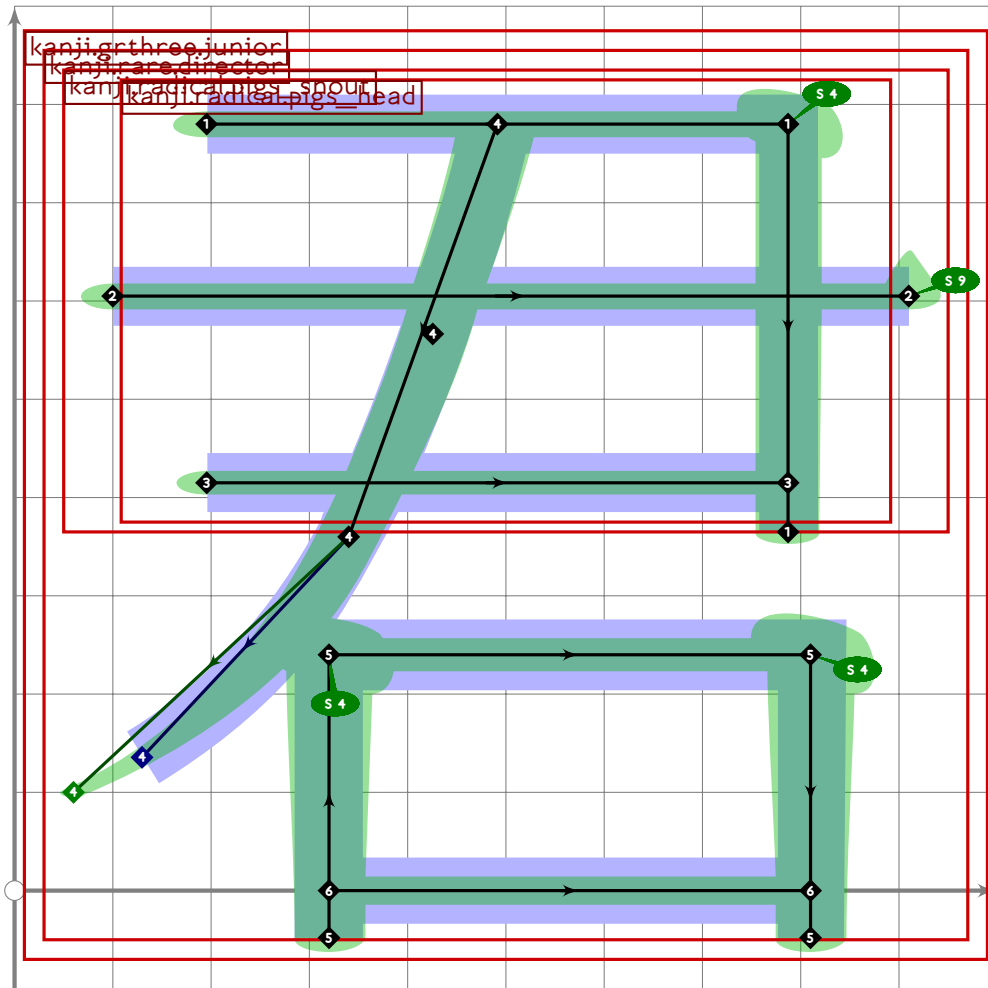
THRE

```

490
491 vardef kanji.grthree.island =
492   push_pbox_toexpand("kanji.grthree.island");
493   kanji.grtwo.bird;
494   pop_stroke;pop_stroke;pop_stroke;pop_stroke;
495   build_kanji.sscaled (0.6,0.25) shifted (-200,-325))
496   (kanji.grone.mountain);
497   expand_pbox;
498 enddef;

```

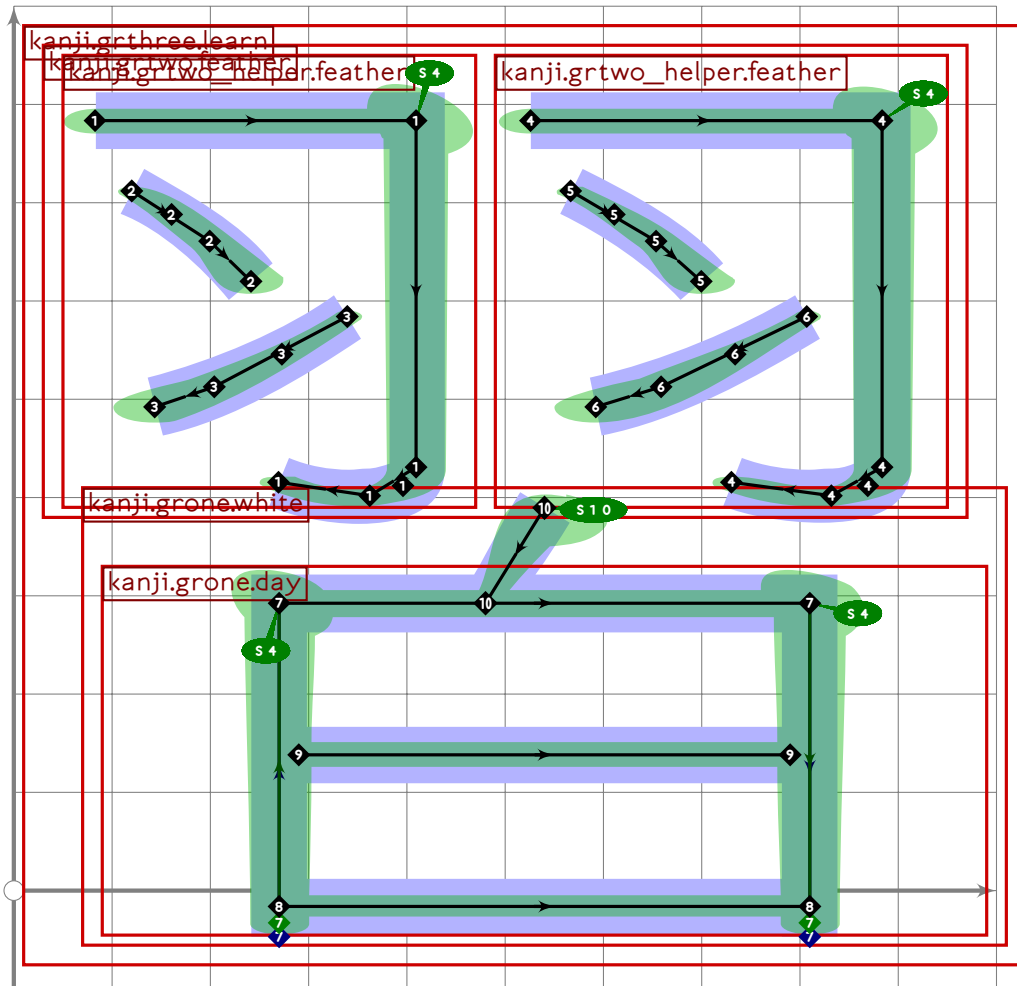
THRE



```

499
500 vardef kanji.grthree.junior =
501   push_pbox_toexpand("kanji.grthree.junior");
502   kanji.rare.director;
503   build_kanji.box((320,240),(810,0));
504   expand_pbox;
505 enddef;

```



THRE

```

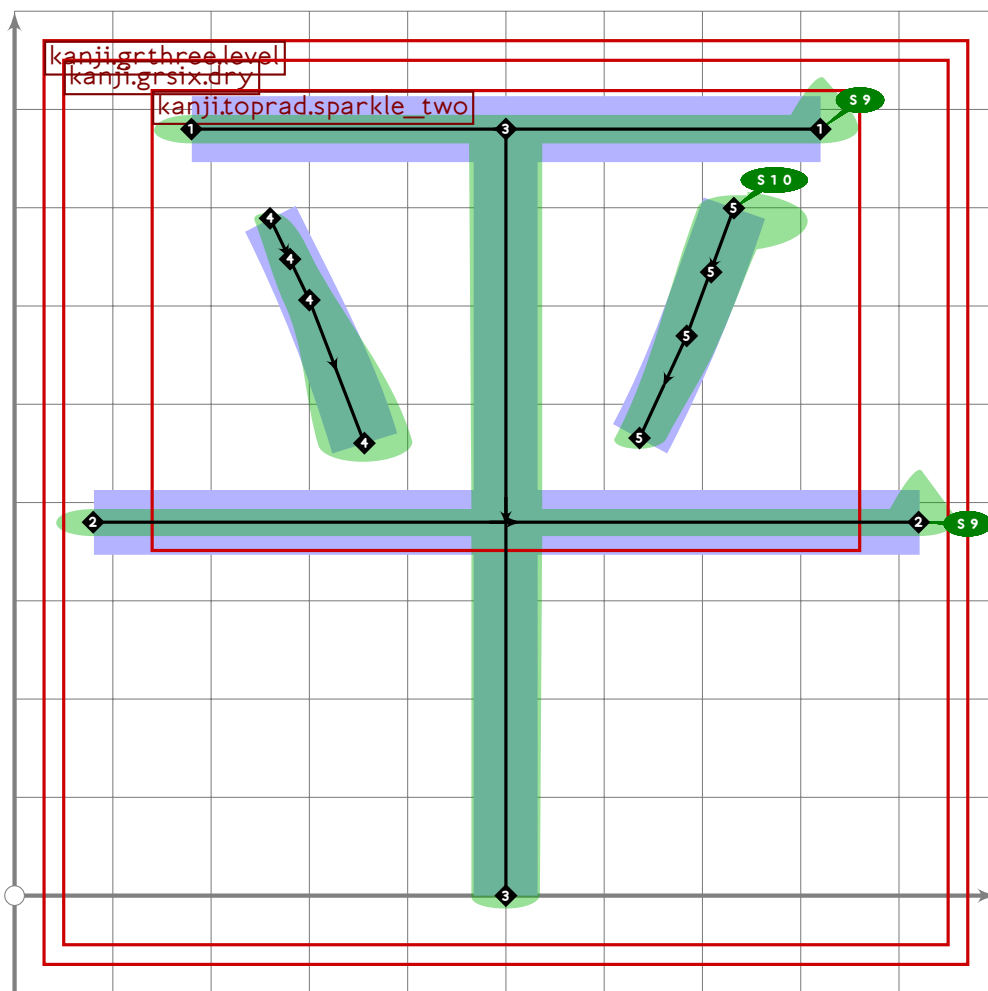
506
507 vardef kanji.grthree.learn =
508   push_pbox_toexpand("kanji.grthree.learn");
509   build_kanji.level(build_kanji.tb(400,20)
510     (kanji.grtwo.feather)
511     (tsu_xform(identity shifted (40,0))(kanji.grone.white)));
512   expand_pbox;
513 enddef;

```



U+5E73  
tsuku.uni5E73

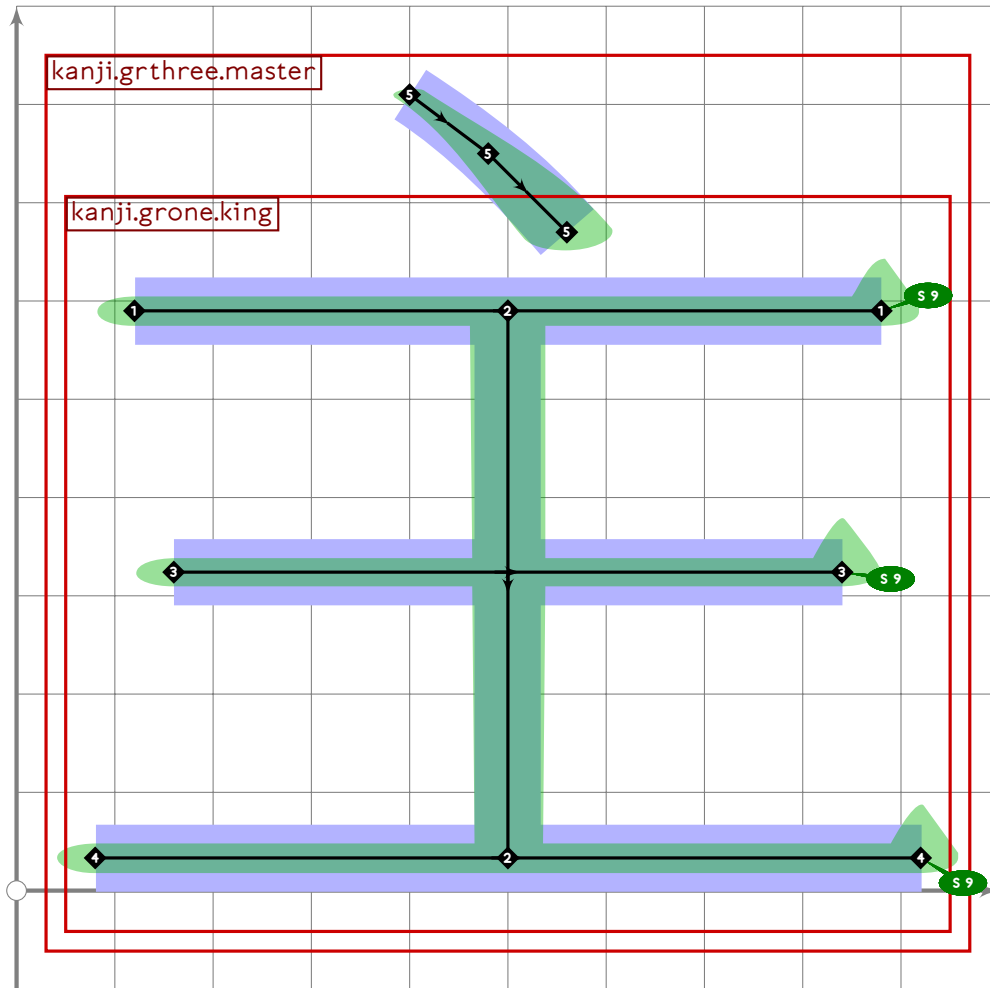
THRE



```

514
515 vardef kanji.grthree.level =
516   push_pbox_toexpand("kanji.grthree.level");
517   build_kanji.level(
518     kanji.grsix.dry;
519     replace_stroke(-1)(oldp shifted (0,-90));
520     build_kanji.sscale(xyscaled (0.8,0.52) shifted (0,190))
521     (kanji.toprad.sparkle_two));
522   expand_pbox;
523 enddef;

```



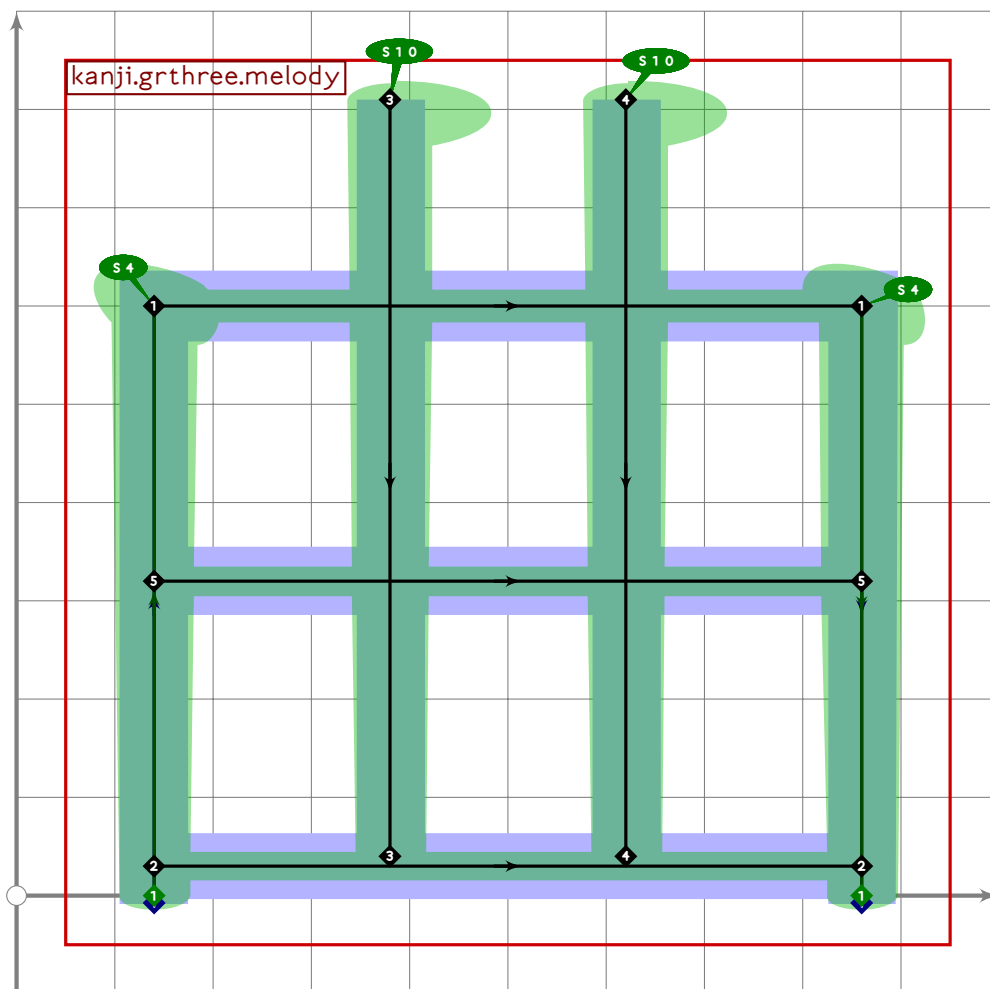
THRE

```

524
525 vardef kanji.grthree.master =
526   push_pbox_toexpand("kanji.grthree.master");
527   build_kanji.level(
528     tsu_xform(identity yscaled (590/710))(kanji.grone.king);
529     push_stroke((400,810)..(480,750)..(560,670),
530       (1,1)-(14,14)-(18,18)));
531   expand_pbox;
532 enddef;

```

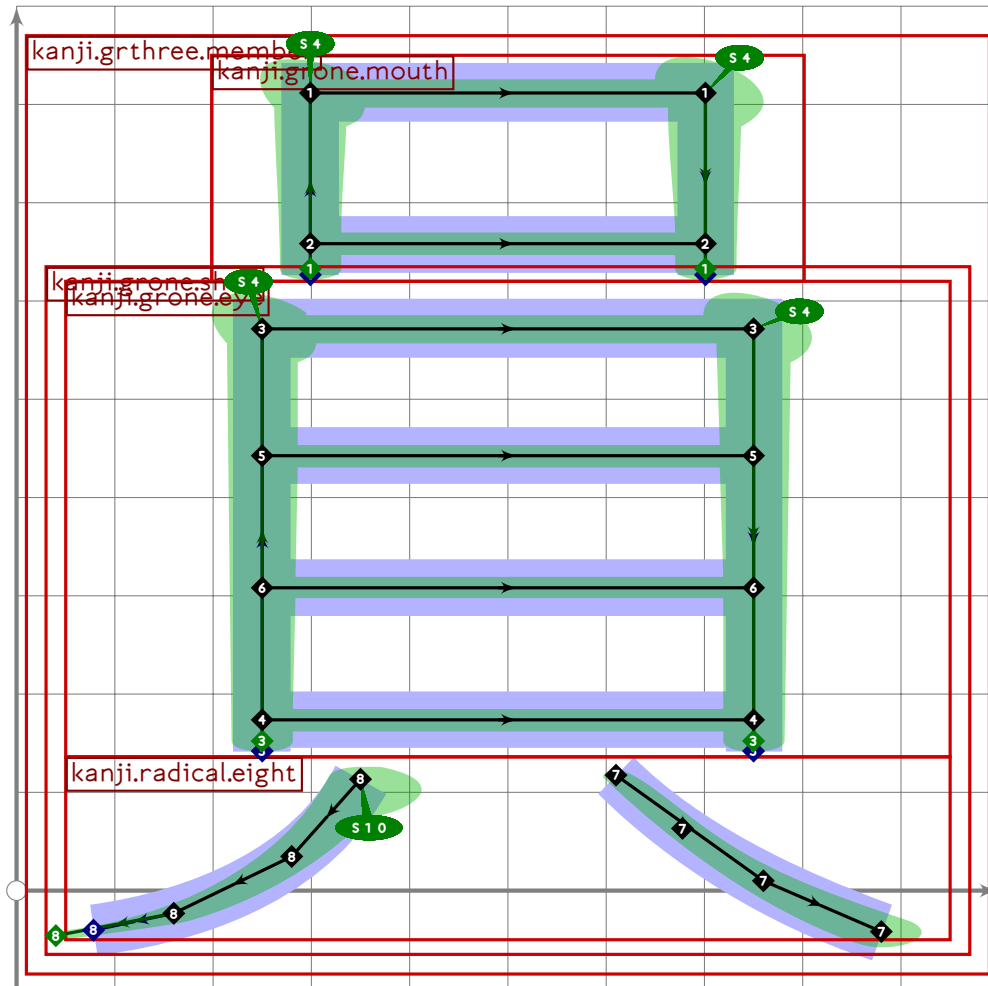
THRE



```

533
534 vardef kanji.grthree.melody =
535   push_pbox_toexpand("kanji.grthree.melody");
536   build_kanji.box((140,600),(860,30));
537   push_stroke((380,810)–(380,40),
538     (1.7,1.7)–(1.5,1.5));
539   set_boserif(0,0,10);
540   push_stroke((620,810)–(620,40),
541     (1.7,1.7)–(1.5,1.5));
542   set_boserif(0,0,10);
543   push_stroke((140,320)–(860,320),
544     (1.6,1.6)–(1.6,1.6));
545   expand_pbox;
546 enddef;

```

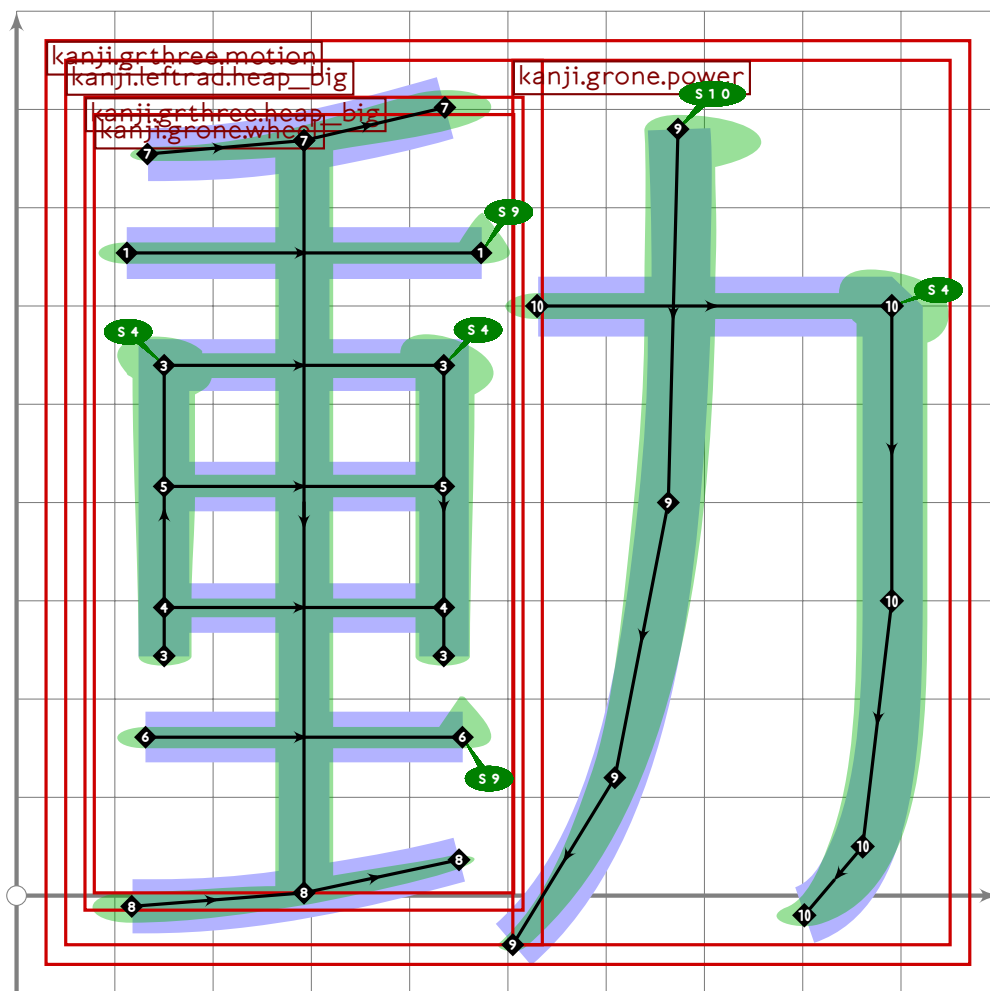


```

547
548 vardef kanji.grthree.member =
549   push_pbox_toexpand("kanji.grthree.member");
550   build_kanji.level(build_kanji.tb(620,0)
551     (build_kanji.sscale(xscaled 0.67)(kanji.grone.mouth))
552     (kanji.grone.shell));
553   expand_pbox;
554 enddef;

```

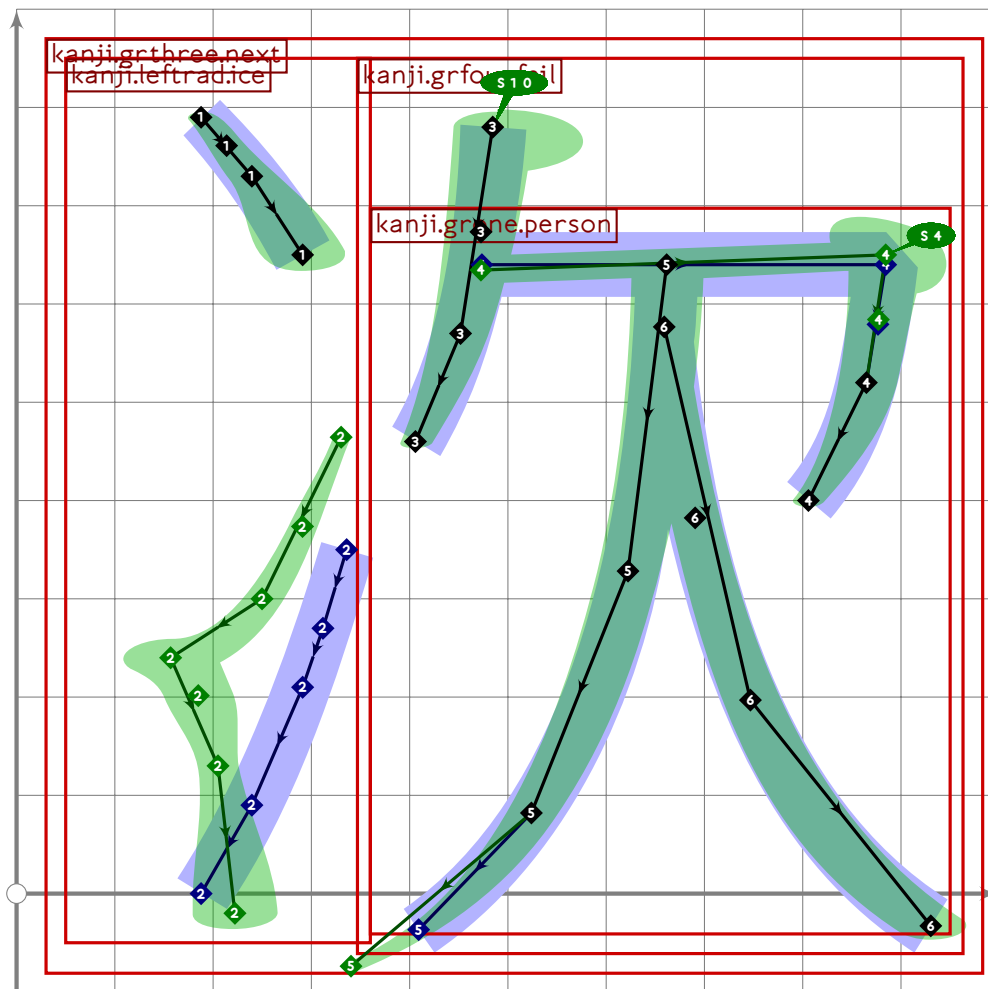
THRE



```

555
556 vardef kanji.grthree.motion =
557   push_pbox_toexpand("kanji.grthree.motion");
558   build_kanji.lr(520,30)
559     (kanji.leftrad.heap_big)
560     (kanji.grone.power);
561   expand_pbox;
562 enddef;

```



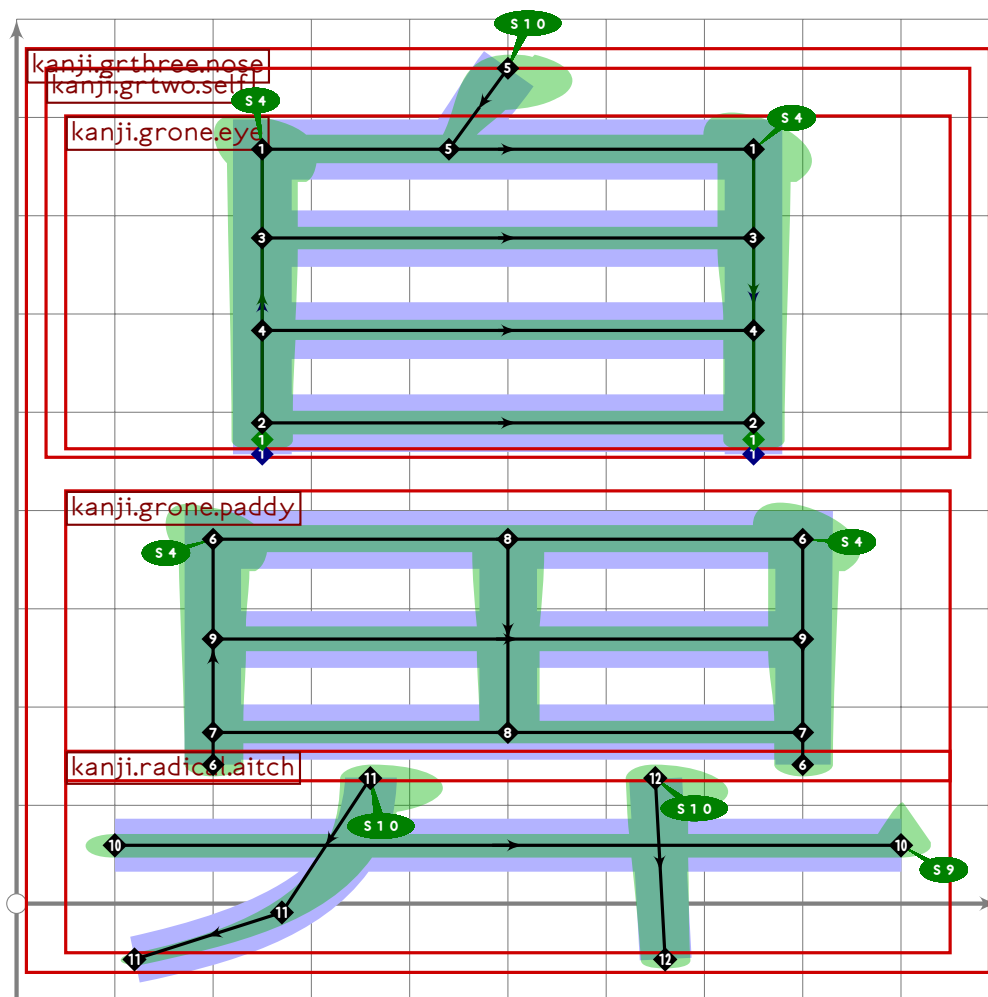
```

563
564 vardef kanji.grthree.next =
565   push_pbox_toexpand("kanji.grthree.next");
566   build_kanji.lr(360,0)
567     (kanji.leftrad.ice)
568     (kanji.grfour.fail);
569   expand_pbox;
570 enddef;

```

U+9F3B  
tsuku.uni9F3B

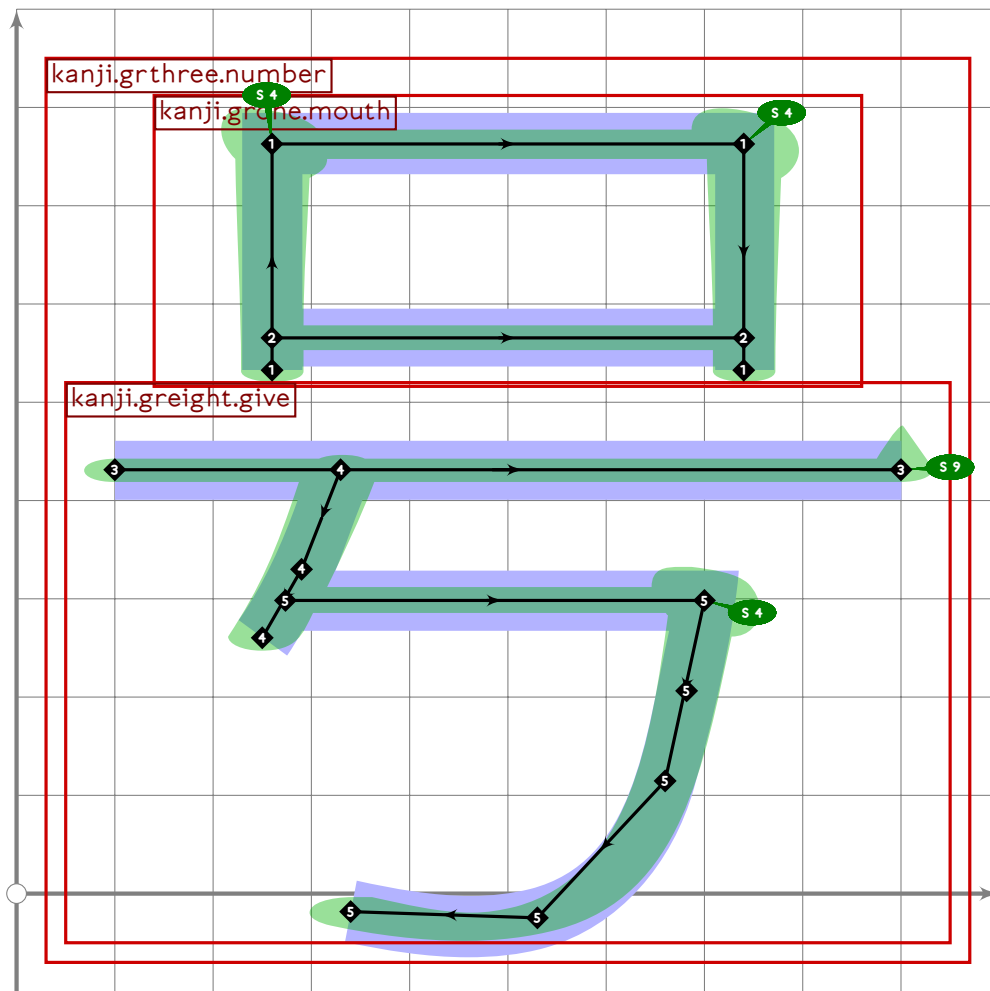
THRE



```

571
572 vardef kanji.grthree.nose =
573   push_pbox_toexpand("kanji.grthree.nose");
574   build_kanji.tcb(440,-40)(140,30)
575   (kanji.grtwo.self)
576   (kanji.grone.paddy)
577   (kanji.radical.aitch);
578   expand_pbox;
579 enddef;

```



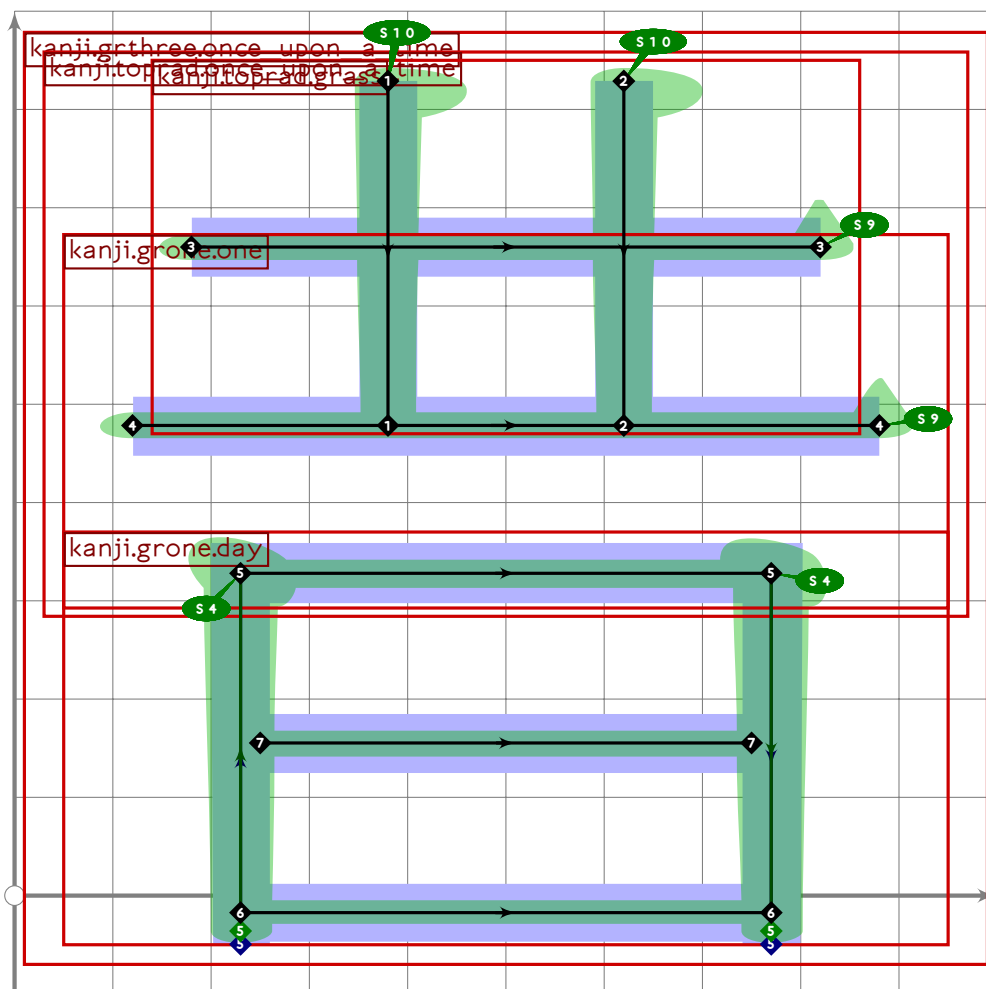
```

580
581 vardef kanji.grthree.number =
582   push_pbox_toexpand("kanji.grthree.number");
583   build_kanji.level(build_kanji.tb(500,40)
584     (build_kanji.sscale(scaled 0.8)(kanji.grone.mouth))
585     (kanji.greight.give;
586       pop_stroke;
587       replace_strokep(-2)((100,710)-(900,710));
588       replace_strokep(-1)(subpath (xpart (oldp intersectiontimes
589         get_strokep(-2)),infinity) of oldp));
590       set_boserif(-1,0,whatever));
591   expand_pbox;
592 enddef;

```



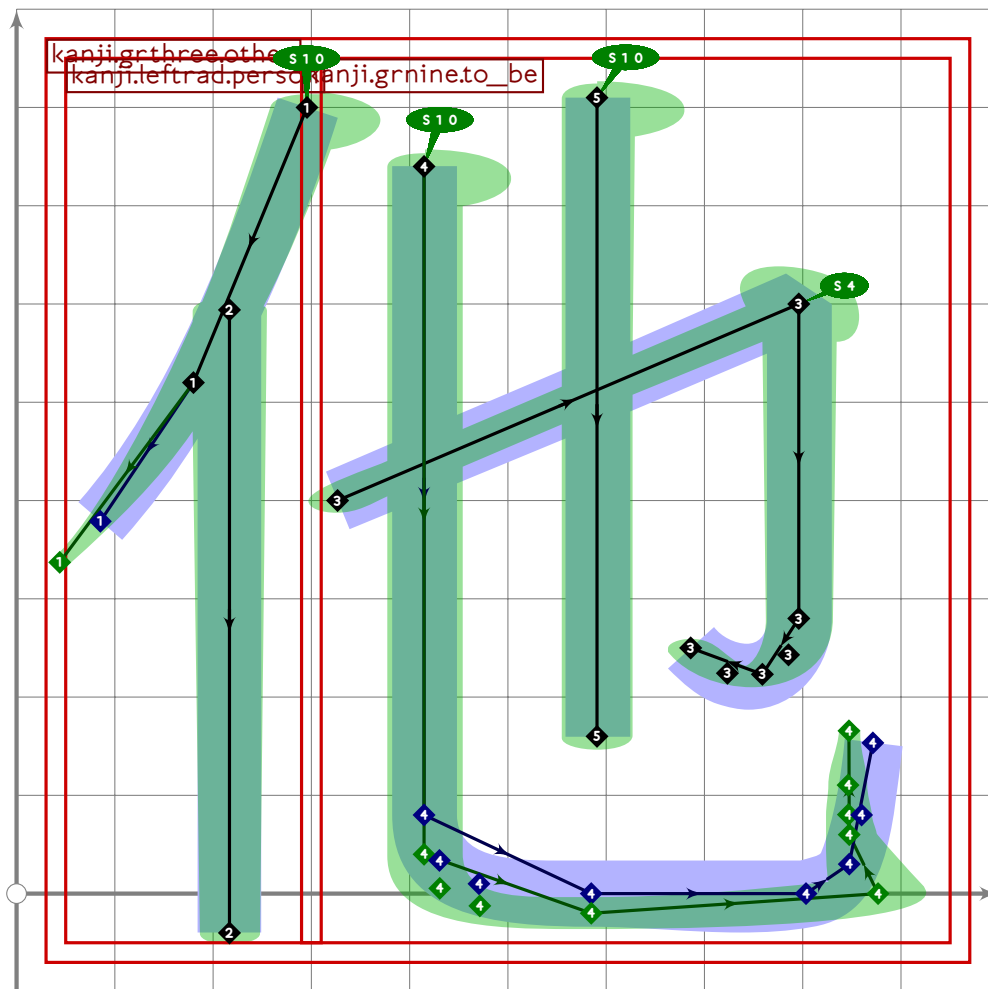
THRE



```

593
594 vardef kanji.grthree.once_upon_a_time =
595   push_pbox_toexpand("kanji.grthree.once_upon_a_time");
596   build_kanji.level(build_kanji.tb(420,-100)
597     (kanji.toprad.once_upon_a_time)
598     (kanji.grone.day));
599   expand_pbox;
600 enddef;

```

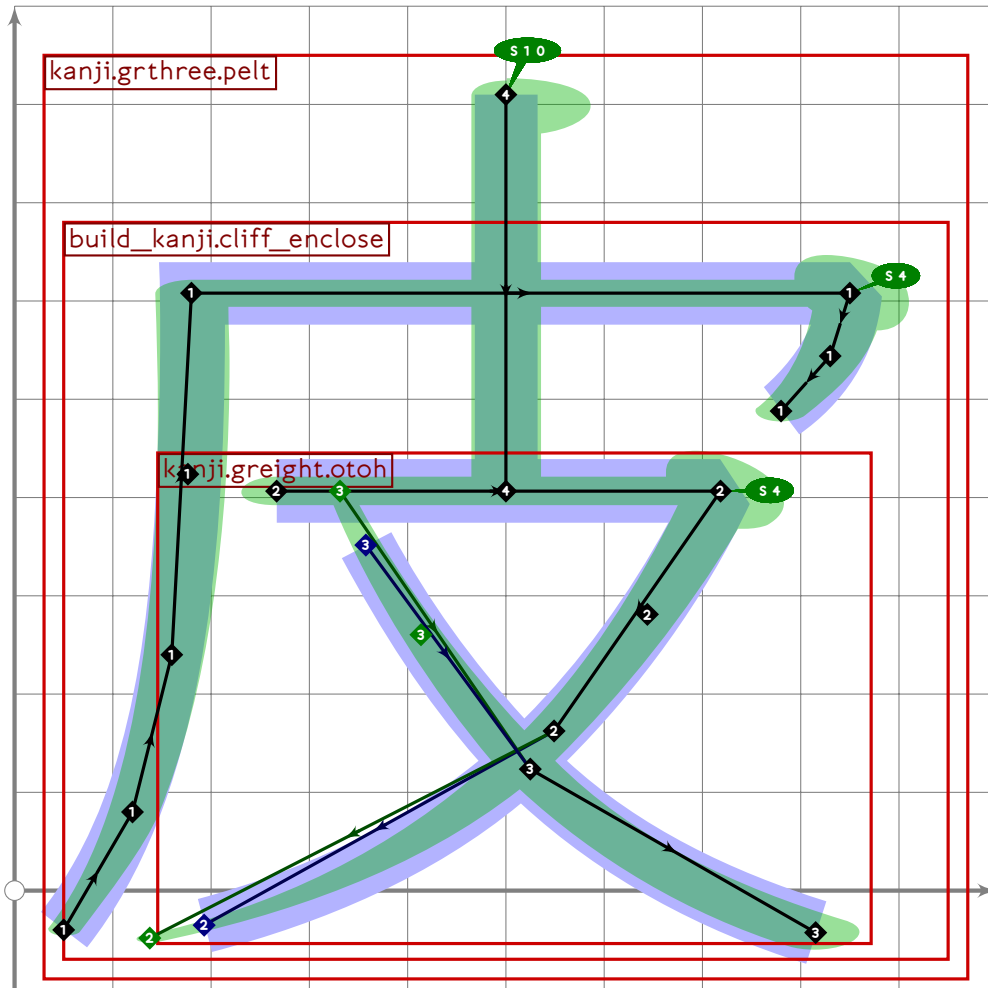


```

601
602 vardef kanji.grthree.other =
603   push_pbox_toexpand("kanji.grthree.other");
604   build_kanji.lr(300,20)
605     (kanji.leftrad.person)
606     (kanji.grnine.to_be);
607   expand_pbox;
608 enddef;

```

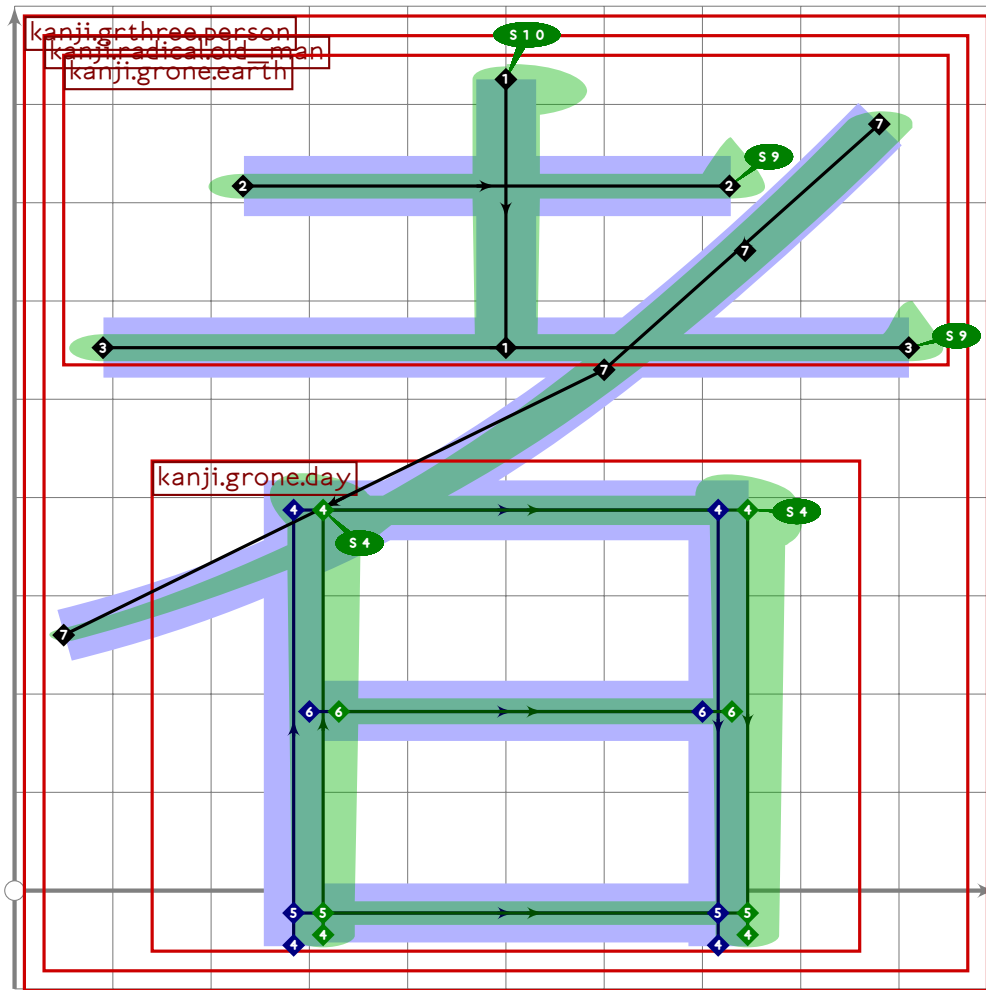
THRE



```

609
610 vardef kanji.grthree.pelt =
611   push_pbox_toexpand("kanji.grthree.pelt");
612   build_kanji.level(
613     tsu_xform(identity yscaled 0.8)(
614       build_kanji.cliff_enclose(
615         tsu_xform(identity xyscaled (1.1,0.8) shifted (-120,-30))
616           (kanji.greight.otoh));
617       replace_stroke(-2)(oldp{curl 1}..(830,680)..(780,610));
618       replace_stroke(-2)(oldq..(1.5,1.5)..(1.3,1.3));
619       set_boserif(-2,4);
620       set_botip(-2,4,0));
621   push_stroke((500,810)-(500,200),(1.6,1.6)-(1.5,1.5));
622   set_boserif(0,0,10);
623   replace_stroke(0)((point 0 of oldp)-
624     (oldp intersectionpoint get_stroke(-2)));
625   expand_pbox;
626 enddef;

```



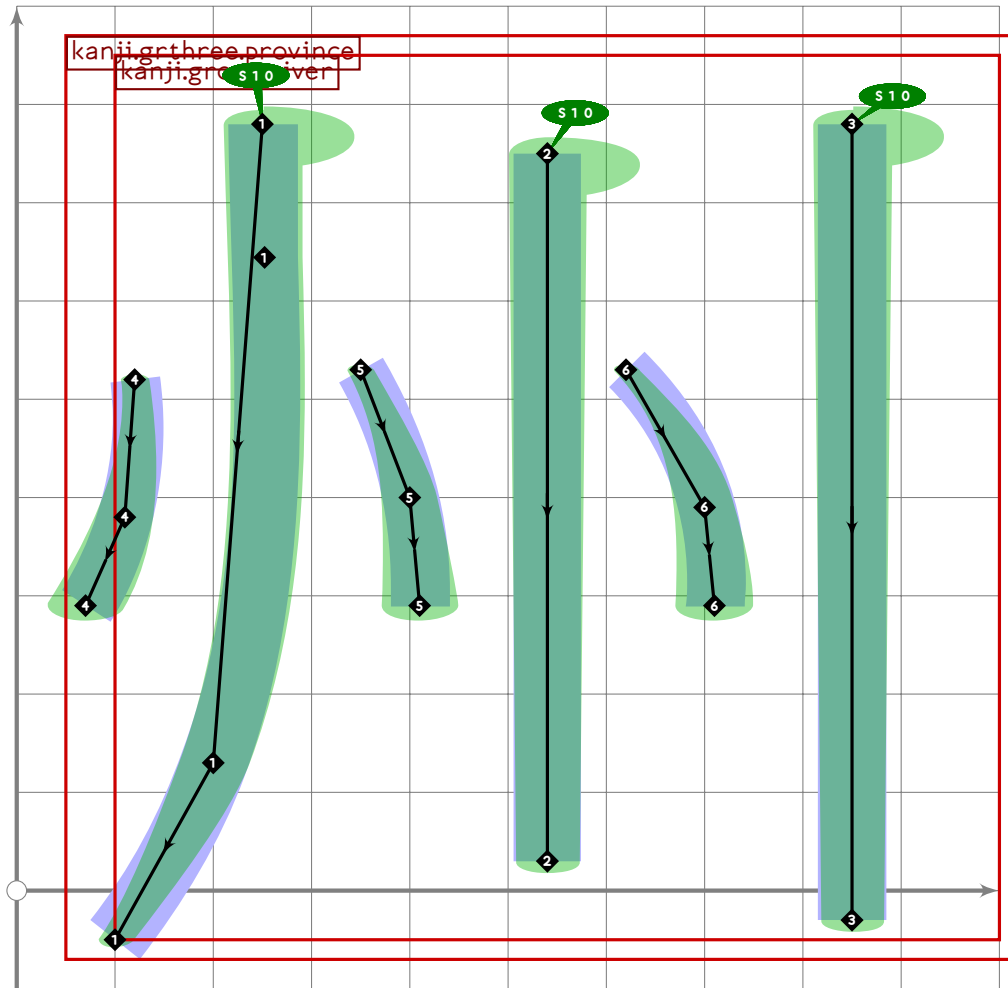
THRE

```

627
628 vardef kanji.grthree.person =
629   push_pbox_toexpand("kanji.grthree.person");
630   kanji.radical.old_man(
631     build_kanji.sscale(xyscaled (0.8,1.05) shifted (30*mincho,0))
632     (kanji.grone.day));
633   expand_pbox;
634 enddef;

```

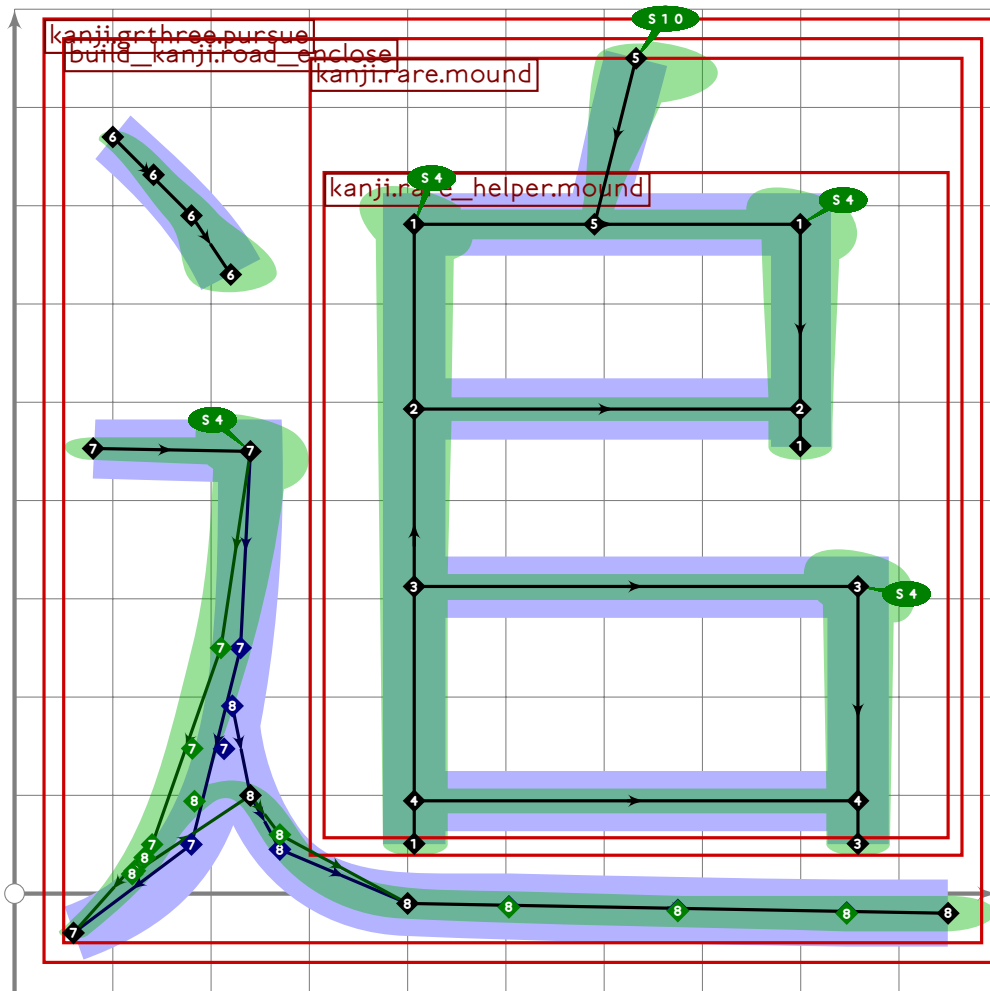
THRE



```

635
636 vardef kanji.grthree.province =
637   push_pbox_toexpand("kanji.grthree.province");
638   tsu_xform(identity shifted (50,0))(kanji.grone.river);
639   push_stroke((120,520)..(110,380)..(70,290),
640     (1,1)-(1.5,1.5)-(1.8,1.8));
641   set_bosize(0,82);
642   push_stroke((350,530)..(400,400)..(410,290),
643     (1,1)-(1.4,1.4)-(1.8,1.8));
644   set_bosize(0,82);
645   push_stroke((620,530)..(700,390)..(710,290),
646     (1,1)-(1.5,1.5)-(1.8,1.8));
647   set_bosize(0,82);
648   expand_pbox;
649 enddef;

```



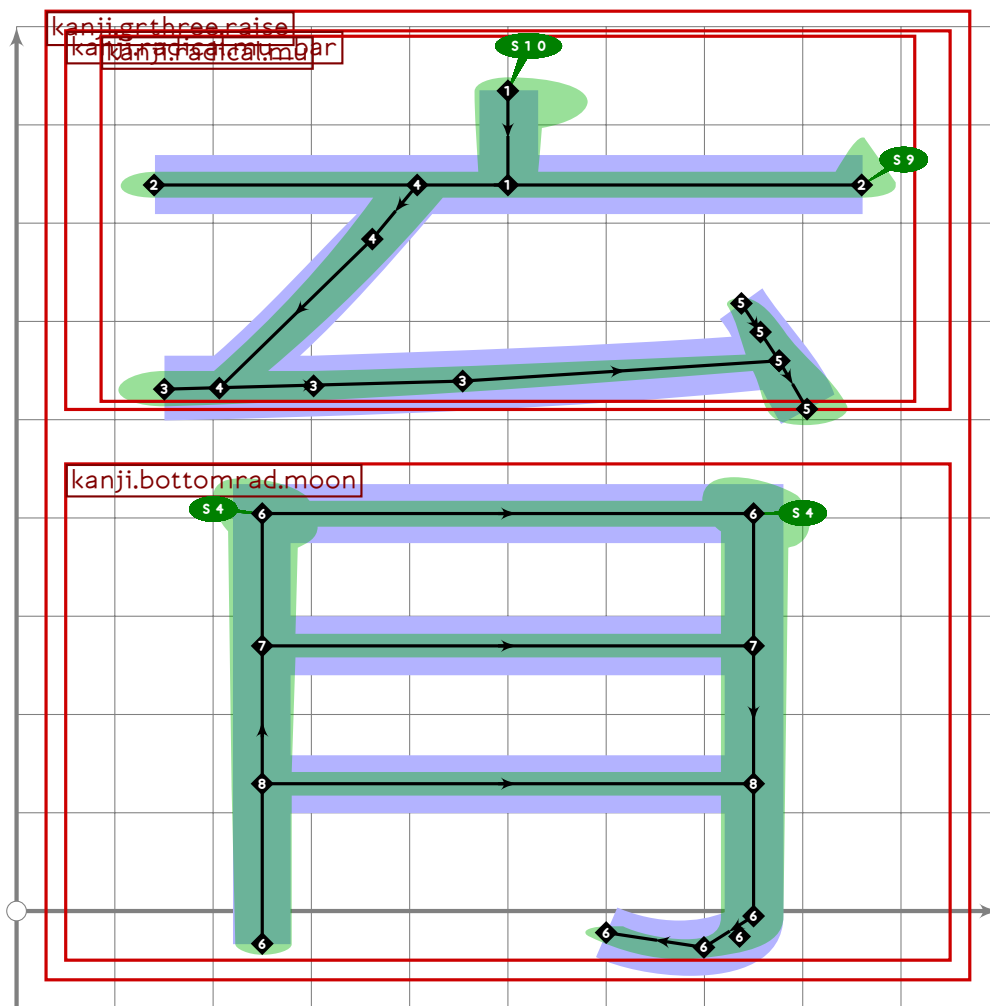
THRE

```

650
651 vardef kanji.grthree.pursue =
652   push_pbox_toexpand("kanji.grthree.pursue");
653   build_kanji.road_enclose(kanji.rare.mound);
654   expand_pbox;
655 enddef;

```

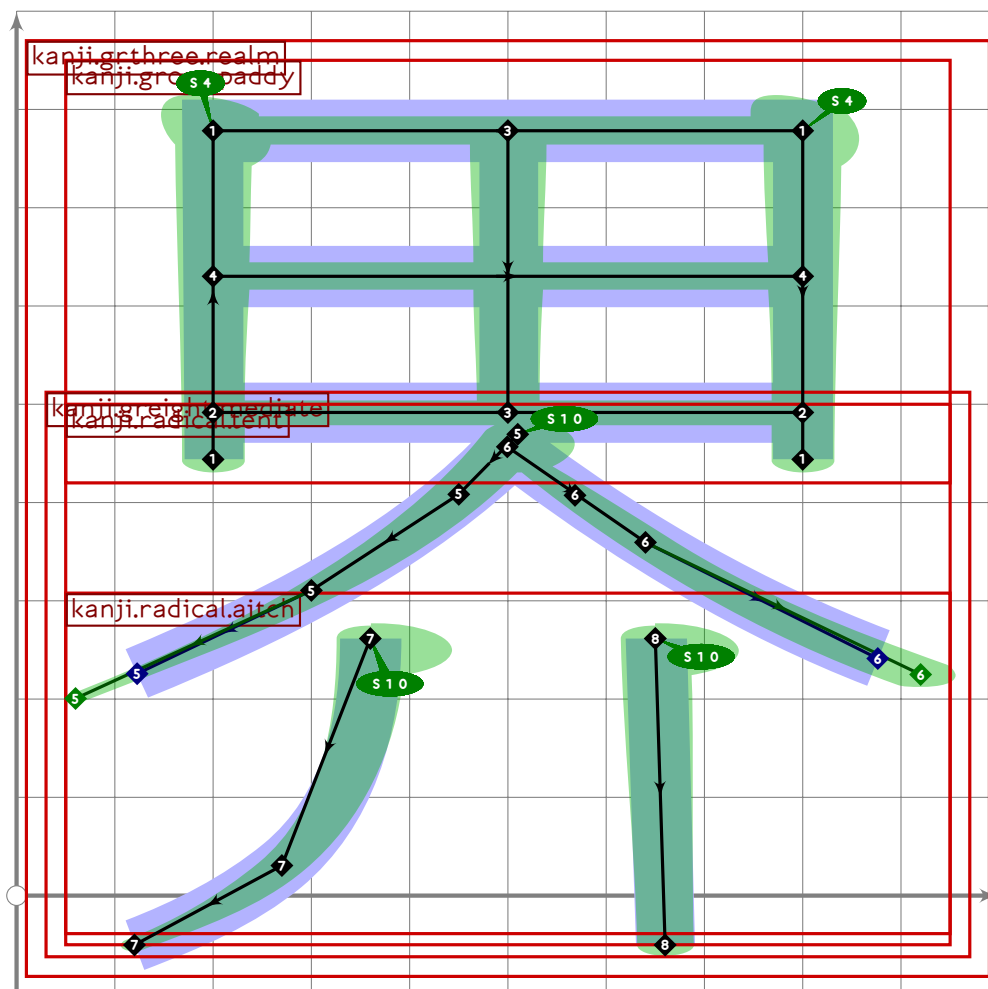
THRE



```

656
657 vardef kanji.grthree.raise =
658   push_pbox_toexpand("kanji.grthree.raise");
659   build_kanji.level(build_kanji.tb(480,-50)
660     (push_stroke((500,810)-(500,560),(1.6,1.6)-(1.5,1.5));
661       set_boserif(0,0,10);
662       tsu_xform(identity yscaled (560/780))(kanji.radical.mu_bar))
663     (kanji.bottomrad.moon));
664   expand_pbox;
665 enddef;

```



THRE

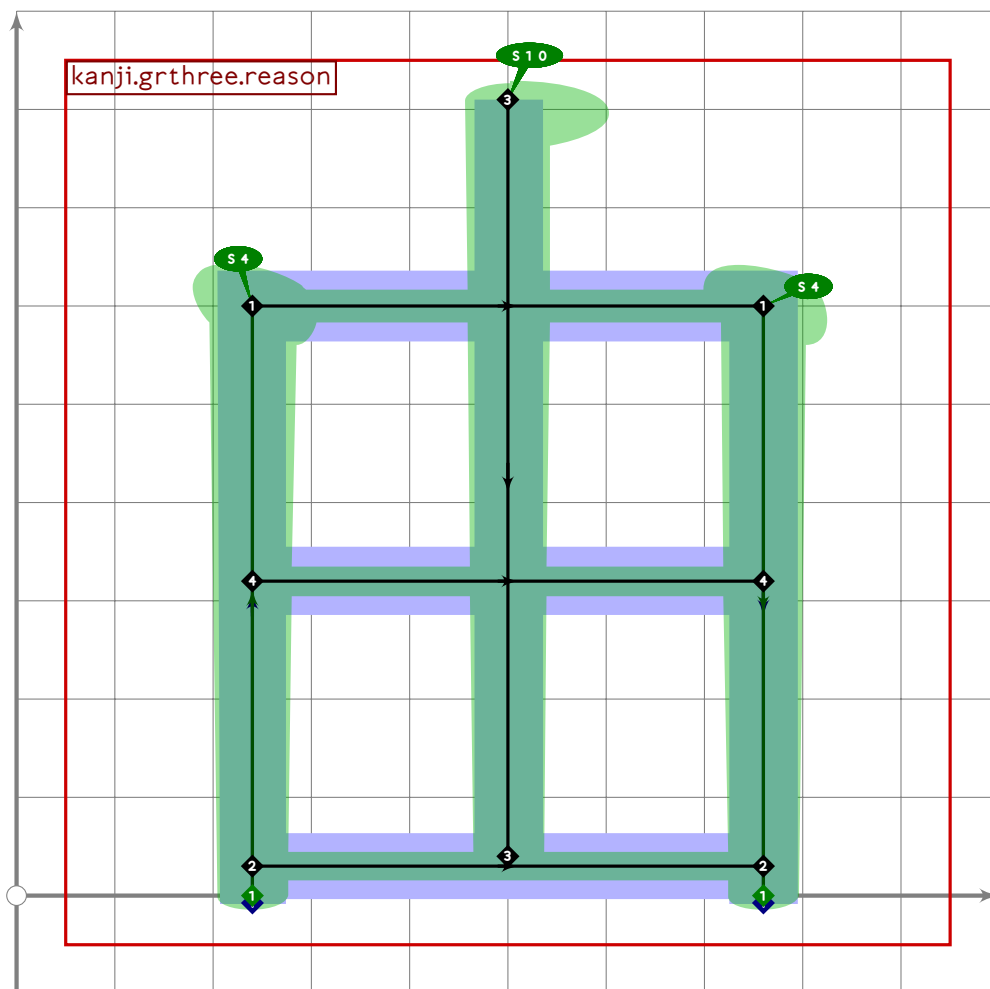
```

666
667 vardef kanji.grthree.realm =
668   push_pbox_toexpand("kanji.grthree.realm");
669   build_kanji.level(build_kanji.tb(460,80)
670     (kanji.grone.paddy)
671     (kanji.grthree.mediate));
672   expand_pbox;
673 enddef;

```



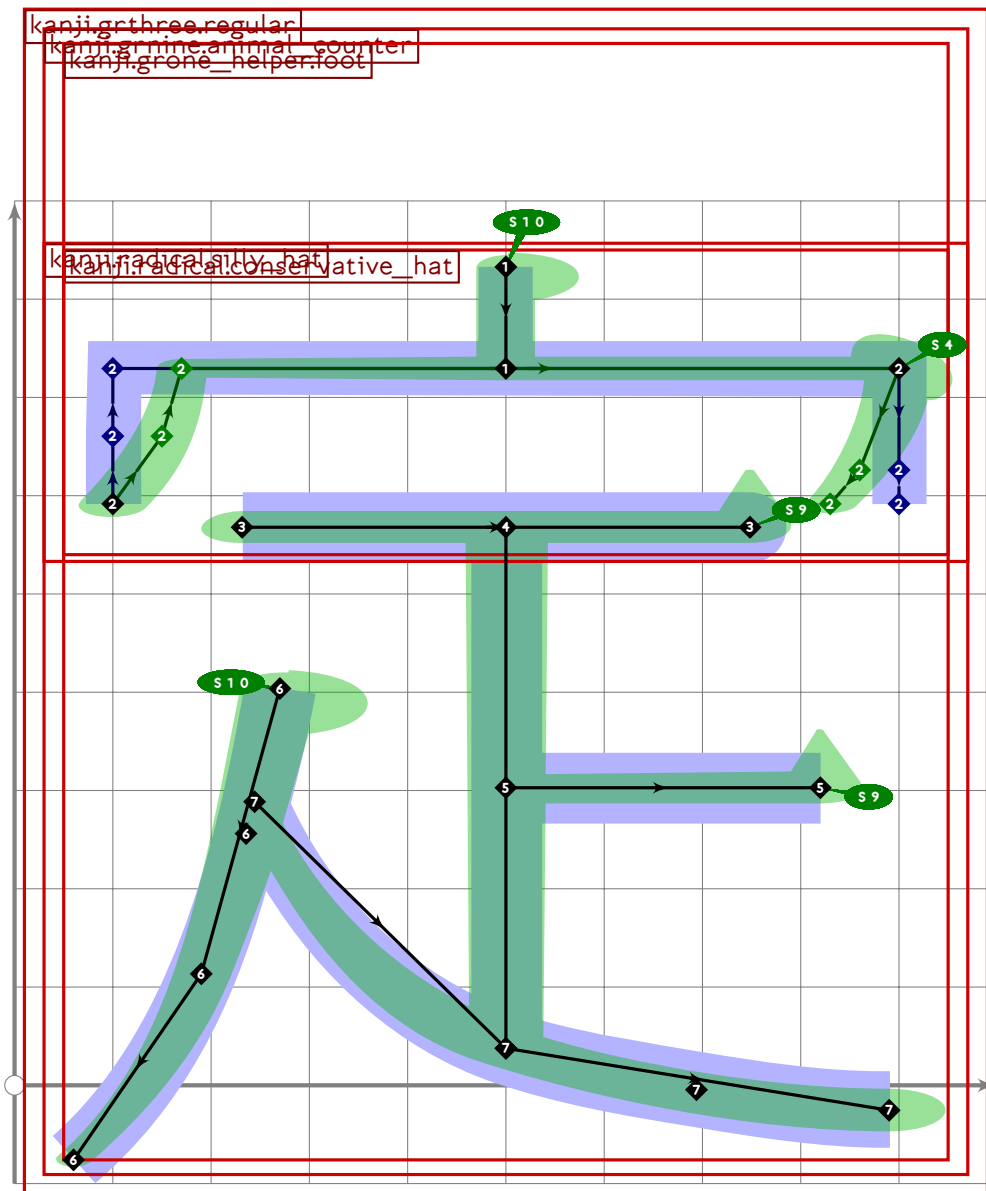
THRE



```

674
675 vardef kanji.grthree.reason =
676   push_pbox_toexpand("kanji.grthree.reason");
677   build_kanji.box((240,600),(760,30));
678   push_stroke((500,810)–(500,40),
679     (1.7,1.7)–(1.5,1.5));
680   set_boserif(0,0,10);
681   push_stroke((240,320)–(760,320),
682     (1.6,1.6)–(1.6,1.6));
683   expand_pbox;
684 enddef;

```



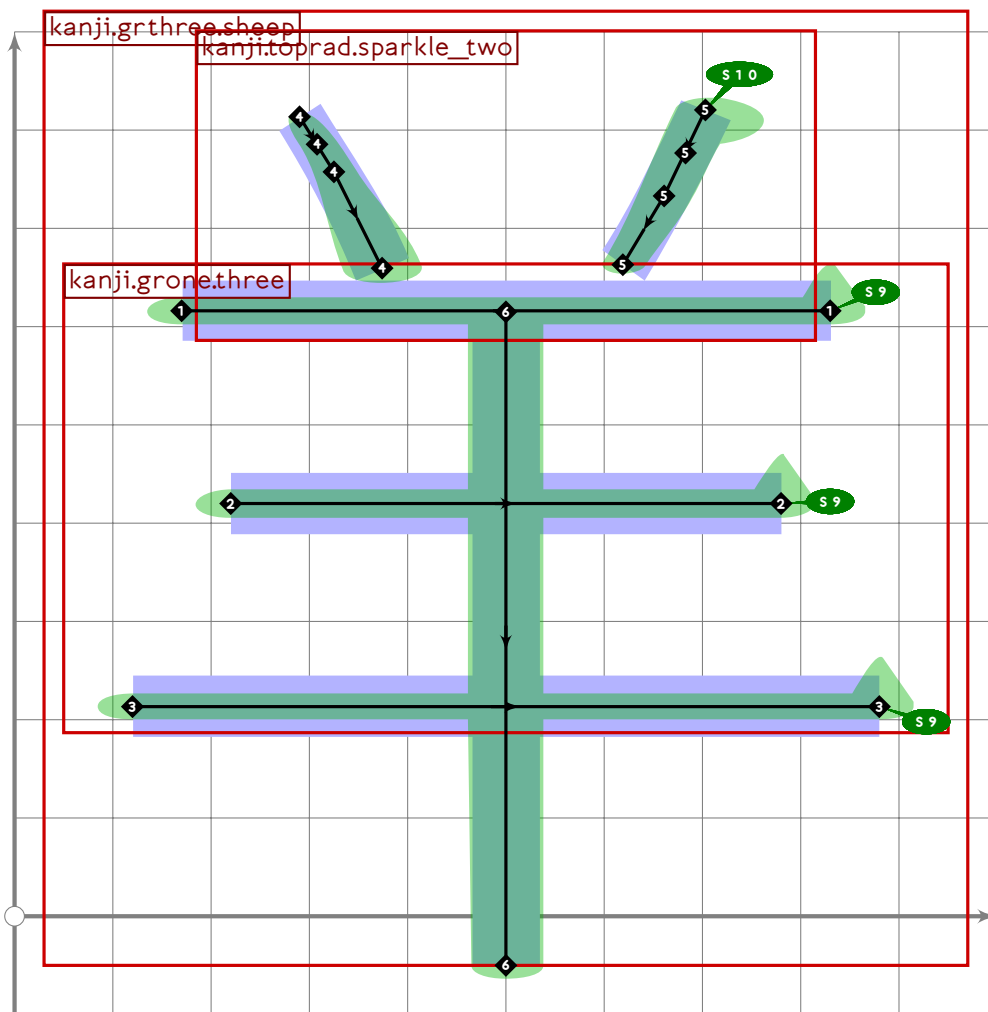
```

685
686 vardef kanji.grthree.regular =
687   push_pbox_toexpand("kanji.grthree.regular");
688   build_kanji.tb(580,80)
689     (kanji.radical.silly_hat)
690     (kanji.grnine.animal_counter;
691       replace_strokep(-4)(subpath (0.12,0.88) of oldp);
692       replace_strokeq(-4)((1.6,1.6)-(1.6,1.6));
693       set_boserif(-4,1,9));
694   expand_pbox;
695 enddef;

```

U+7F8A  
tsuku.uni7F8A

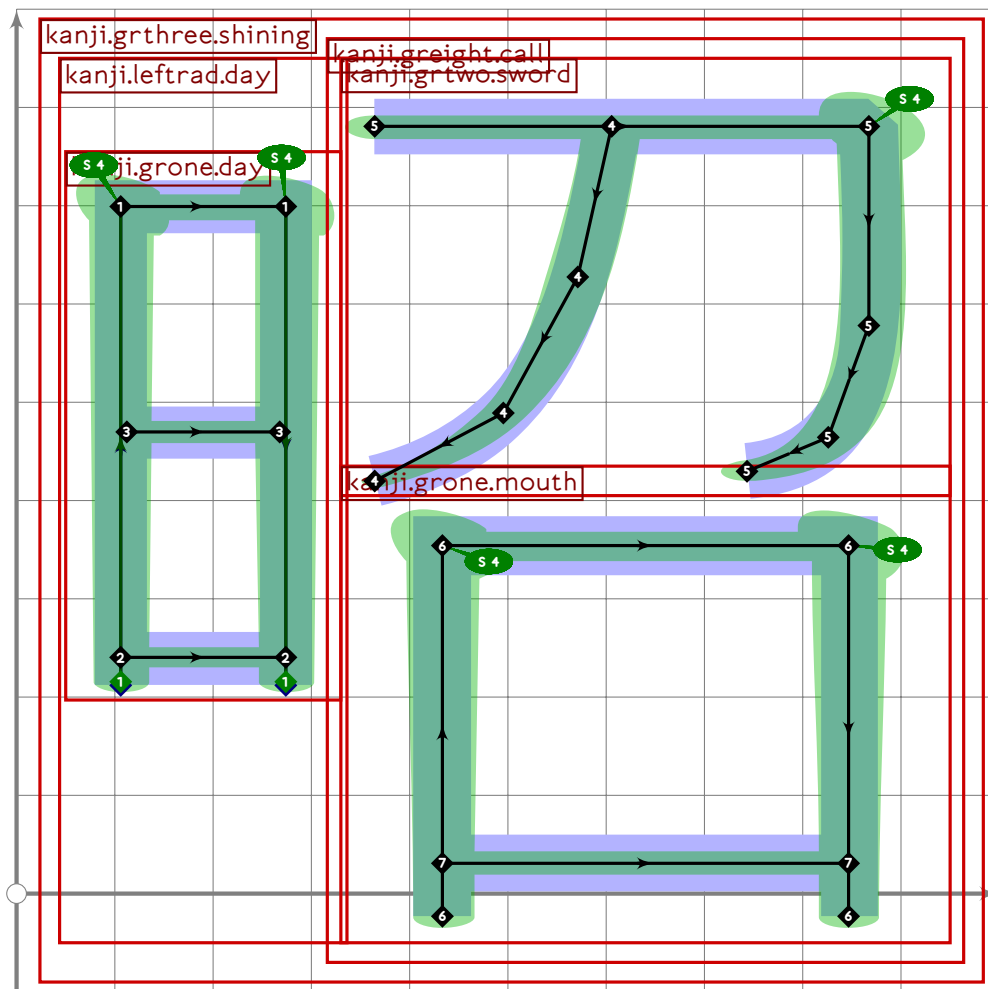
THRE



```

696
697 vardef kanji.grthree.sheep =
698   push_pbox_toexpand("kanji.grthree.sheep");
699   build_kanji.sscale(yscaled 0.53 shifted (0,30))
700     (kanji.grone.three);
701   build_kanji.sscale(xyscaled (0.70,35) shifted (0,350))
702     (kanji.toprad.sparkle_two);
703   push_stroke((500,615)-(500,50),(1.6,1.6)-(1.5,1.5));
704   expand_pbox;
705 enddef;

```



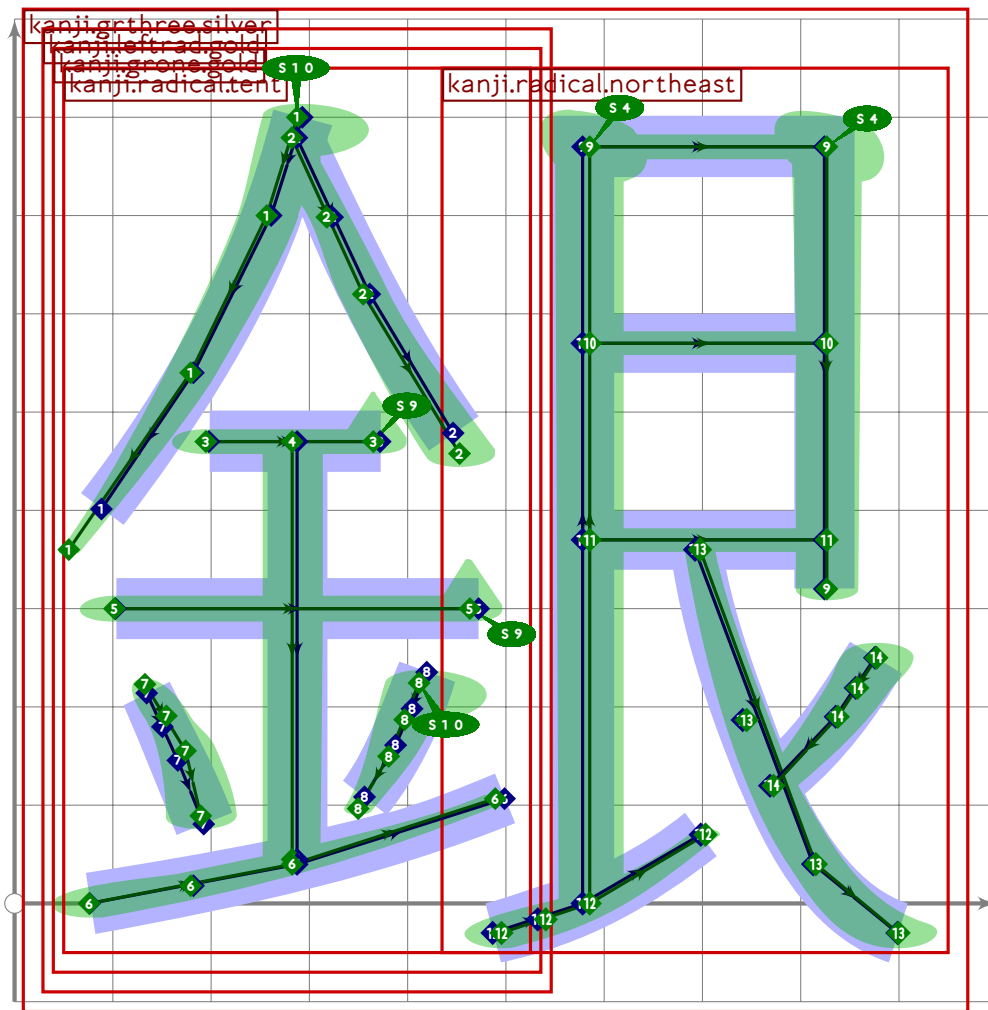
```

706
707 vardef kanji.grthree.shining =
708   push_pbox_toexpand("kanji.grthree.shining");
709   build_kanji.lr(330,0)
710     (kanji.leftrad.day)
711     (kanji.greight.call);
712   expand_pbox;
713 enddef;

```

U+9280  
tsuku.uni9280

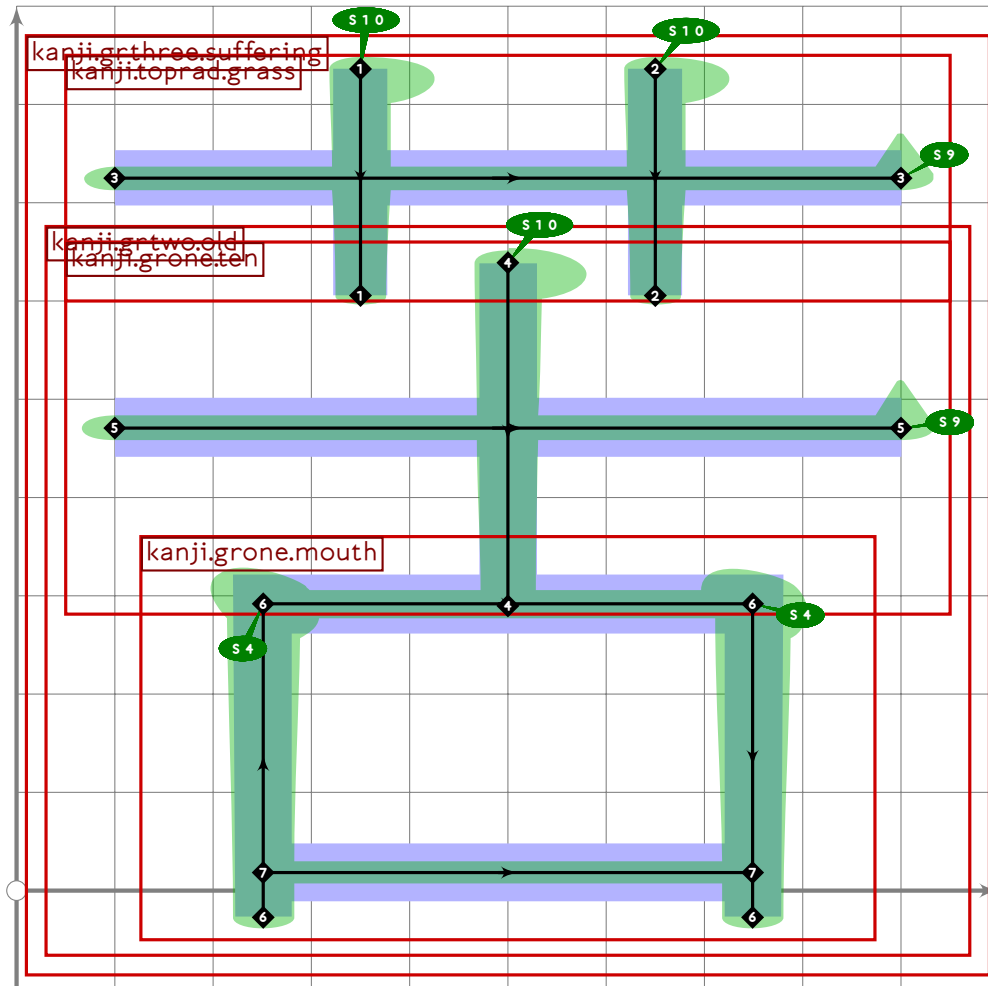
THRE



```

714
715 vardef kanji.grthree.silver =
716   push_pbox_toexpand("kanji.grthree.silver");
717   build_kanji.level(build_kanji.lr(480,90-20*mincho)
718     (kanji.leftrad.gold)
719     (kanji.radical.northeast));
720   expand_pbox;
721 enddef;

```



THRE

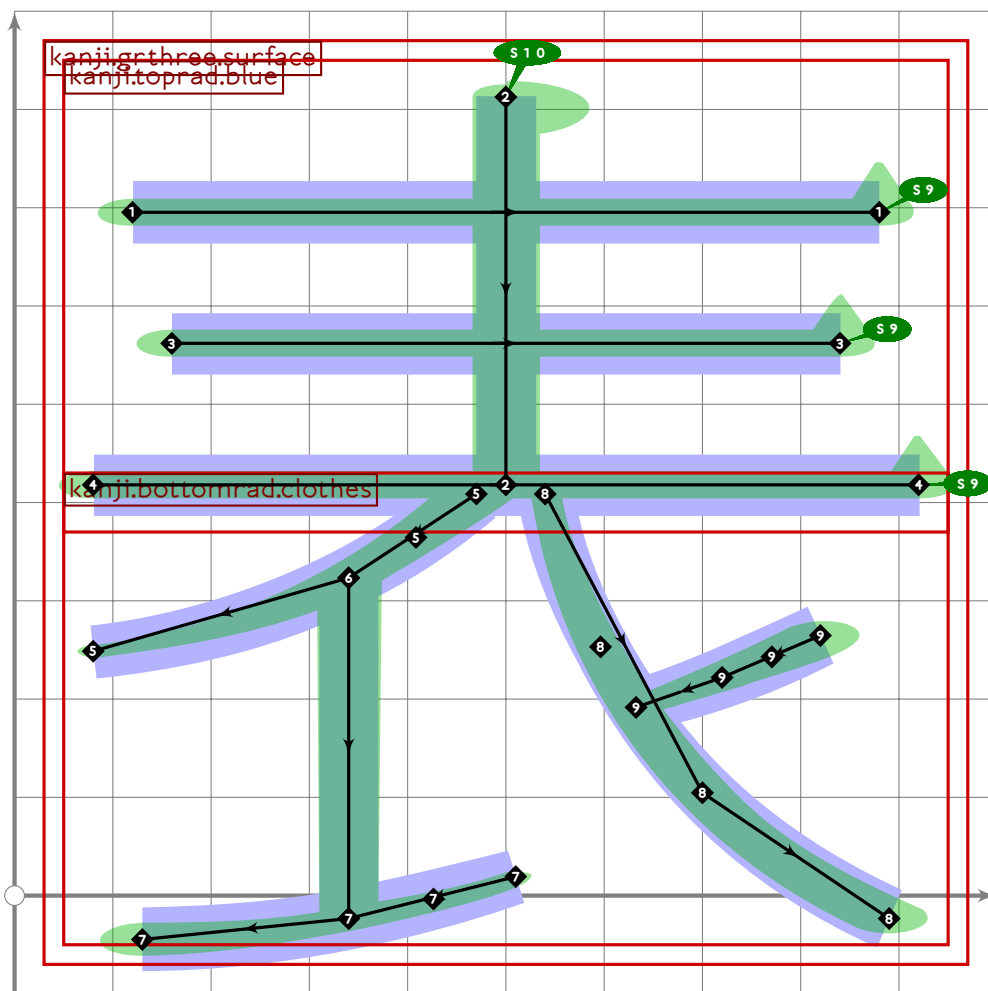
```

722
723 vardef kanji.grthree.suffering =
724   push_pbox_toexpand("kanji.grthree.suffering");
725   build_kanji.tb(630,60)
726     (kanji.toprad.grass)
727     (kanji.grtwo.old);
728   expand_pbox;
729 enddef;

```

U+8868  
tsuku.uni8868

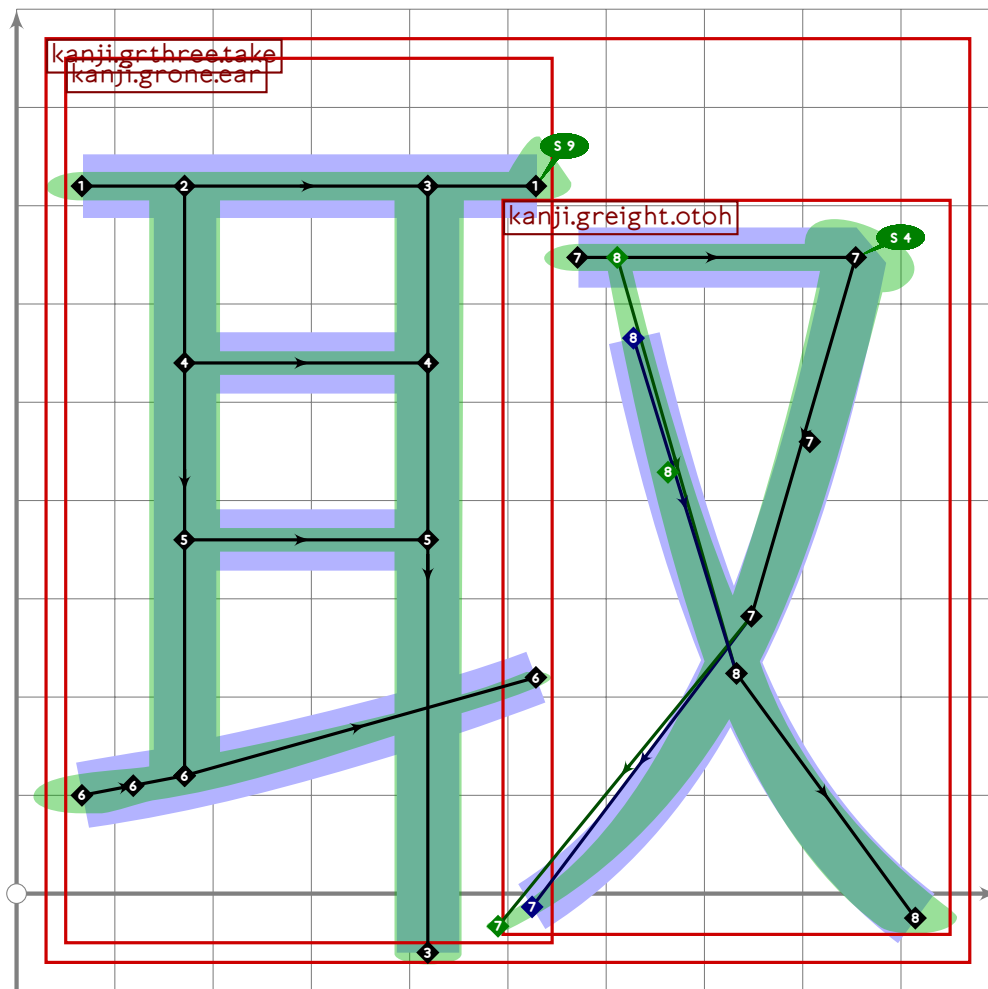
THRE



```

730
731 vardef kanji.grthree.surface =
732   push_pbox_toexpand("kanji.grthree.surface");
733   build_kanji.level(build_kanji.tb(400,60)
734     (kanji.toprad.blue)
735     (kanji.bottomrad.clothes));
736   expand_pbox;
737 enddef;

```



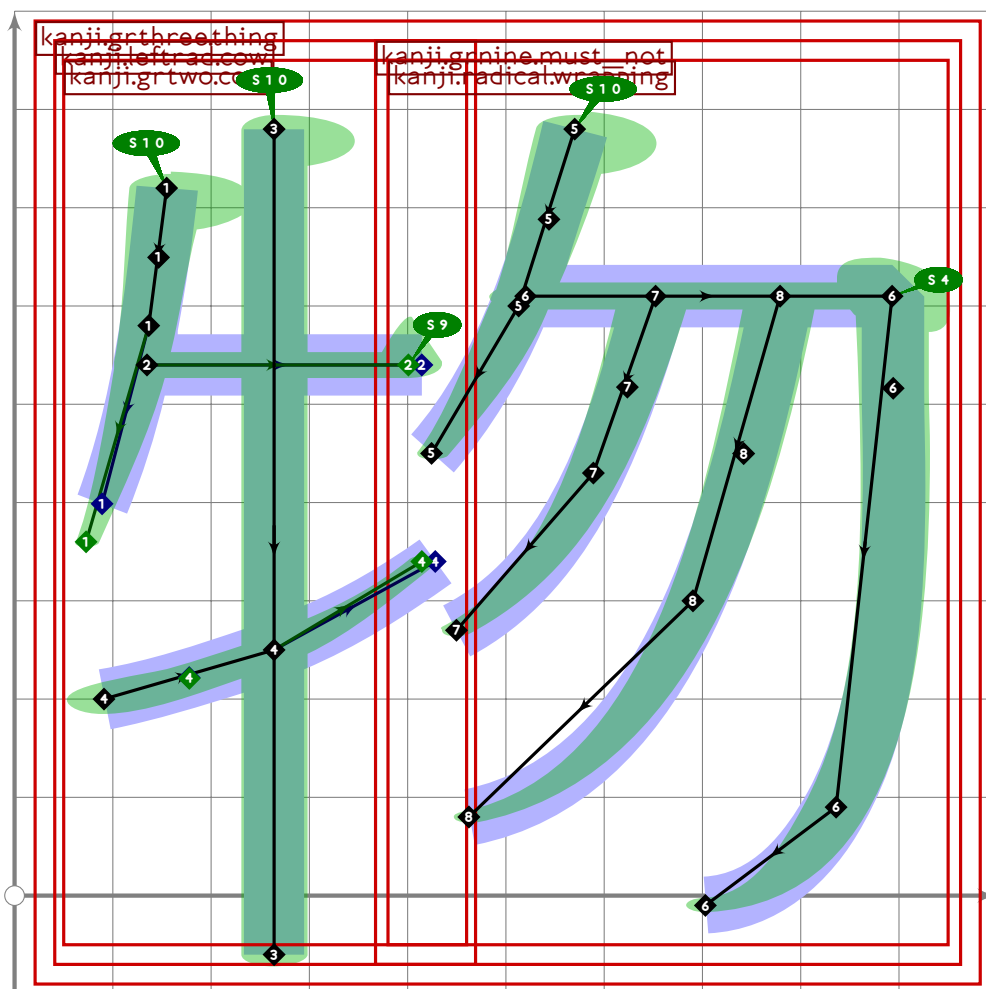
THRE

```

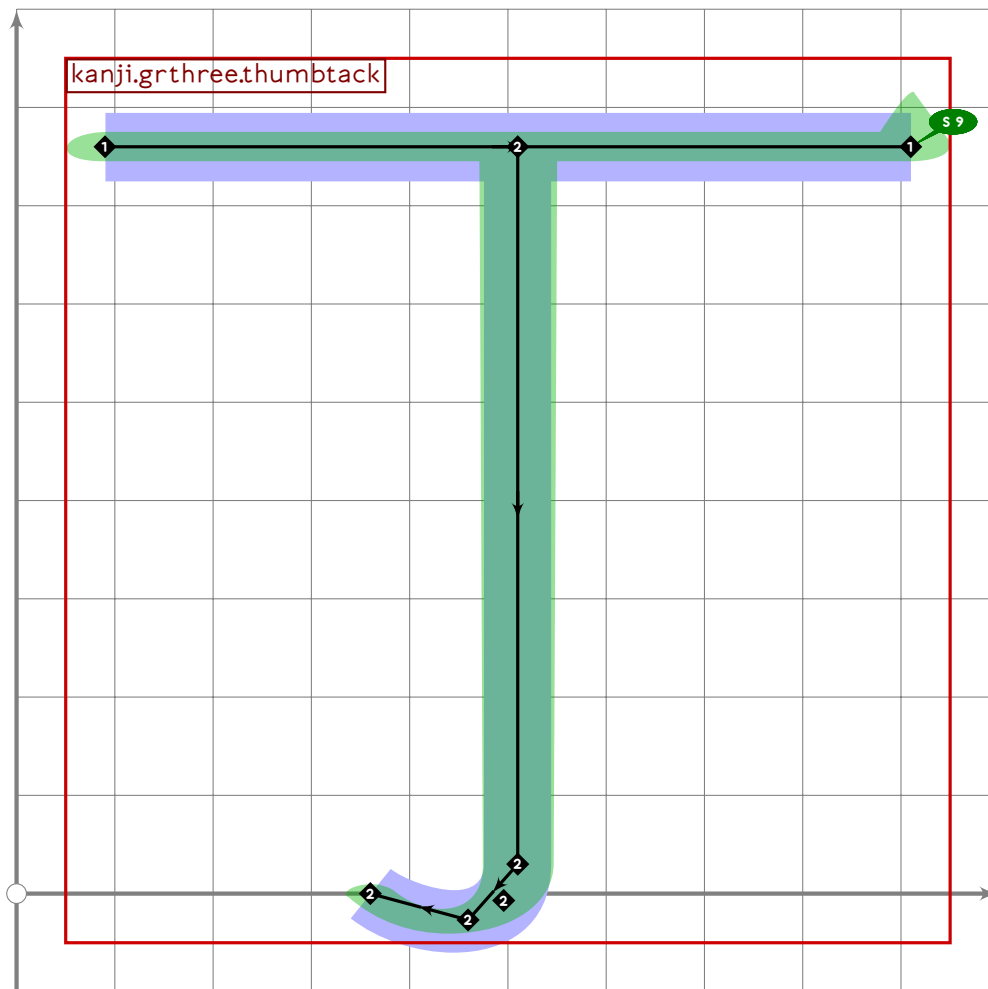
738
739 vardef kanji.grthree.take =
740   push_pbox_toexpand("kanji.grthree.take");
741   build_kanji.lr(520,50)
742     (kanji.grone.ear)
743     (tsu_xform(identity yscaled 0.83)(kanji.greight.otoh));
744   expand_pbox;
745 enddef;

```





662



THRE

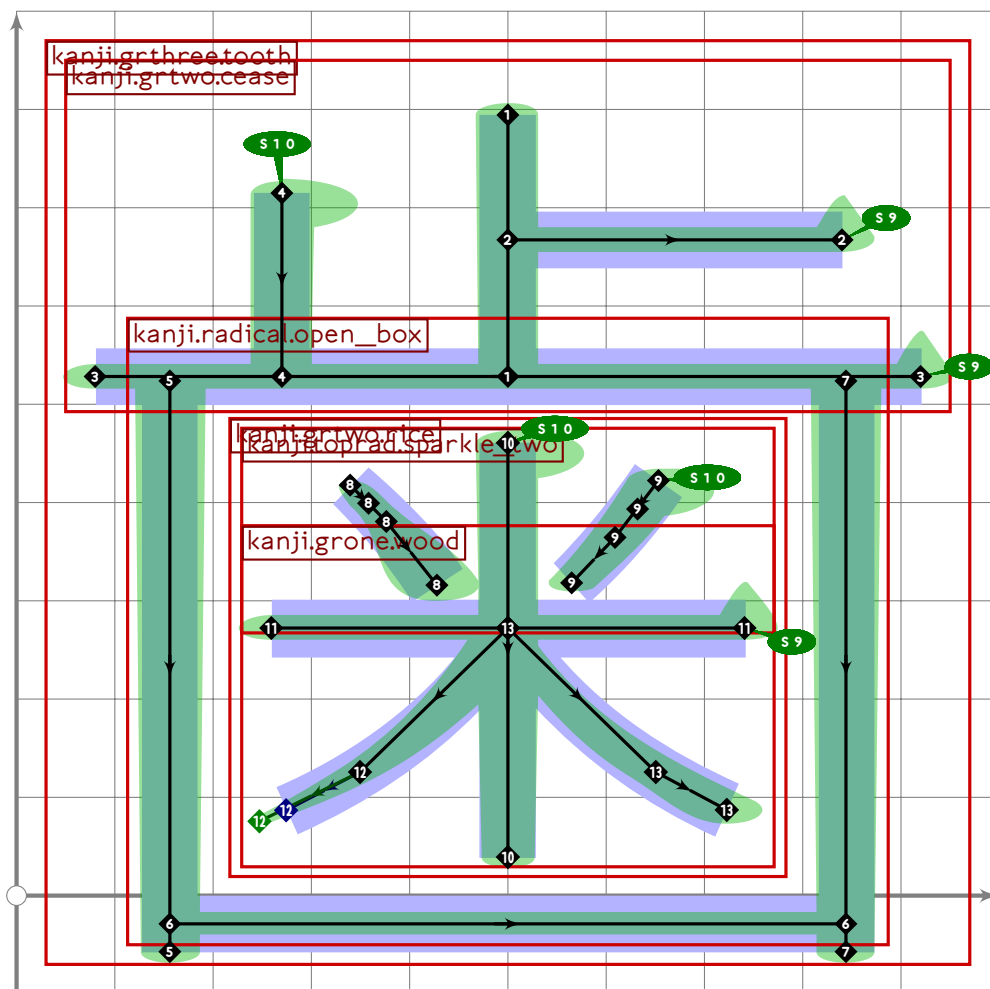
```

760
761 vardef kanji.grthree.thumbtack =
762   push_pbox_toexpand("kanji.grthree.thumbtack");
763   push_stroke((90,760)-(910,760),(1.6,1.6)-(1.6,1.6));
764   set_boserif(0,1,9);
765   push_stroke((510,760),(1.6,1.6));
766   build_kanji.add_jtail(0);
767   expand_pbox;
768 enddef;

```

U+6B6F  
tsuku.uni6B6F

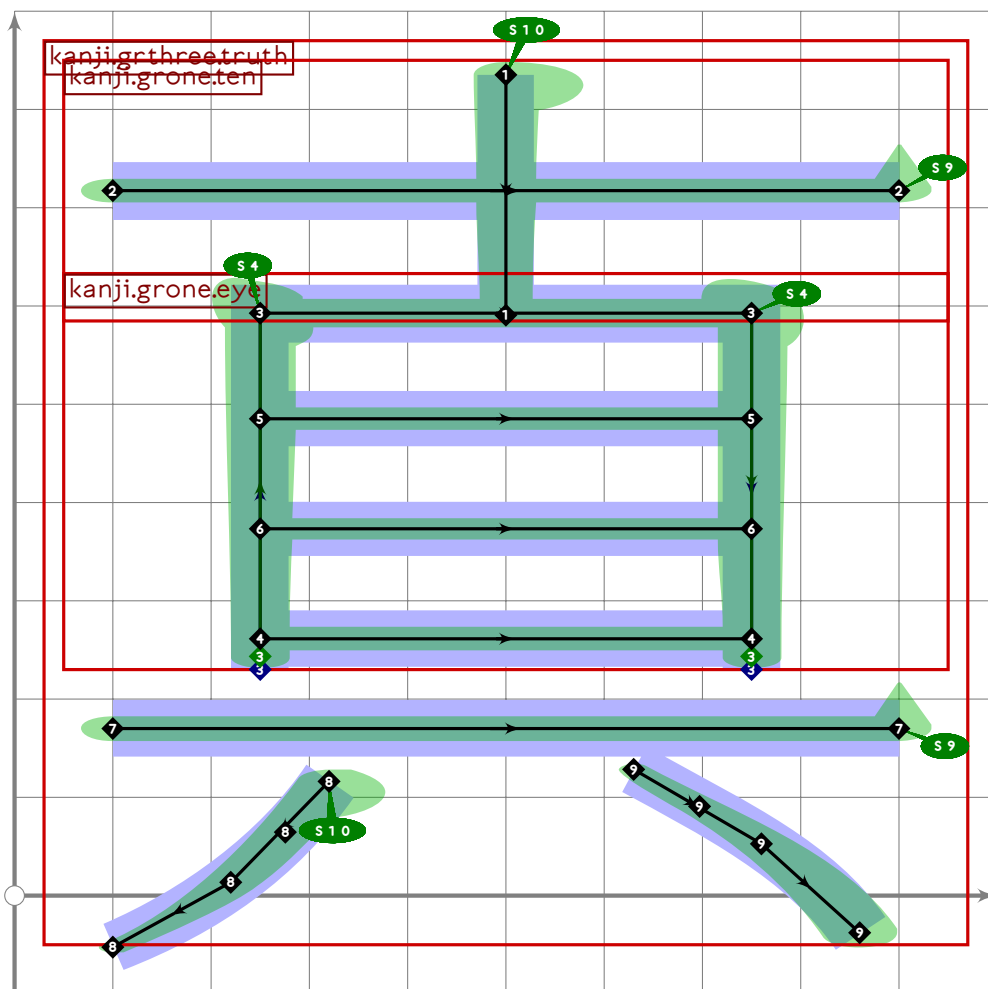
THRE



```

769
770 vardef kanji.grthree.tooth =
771   push_pbox_toexpand("kanji.grthree.tooth");
772   build_kanji.level(build_kanji.tb(540,95)
773     (kanji.grtwo.cease)
774     (build_kanji.sscale(xscaled 0.86)(
775       kanji.radical.open_box;
776       set_boserif(-2,0,whatever);
777       set_boserif(0,0,whatever);
778       build_kanji.sscale(scaled 0.7 shifted (0,20))(kanji.grtwo.rice)))));
779   expand_pbox;
780 enddef;

```



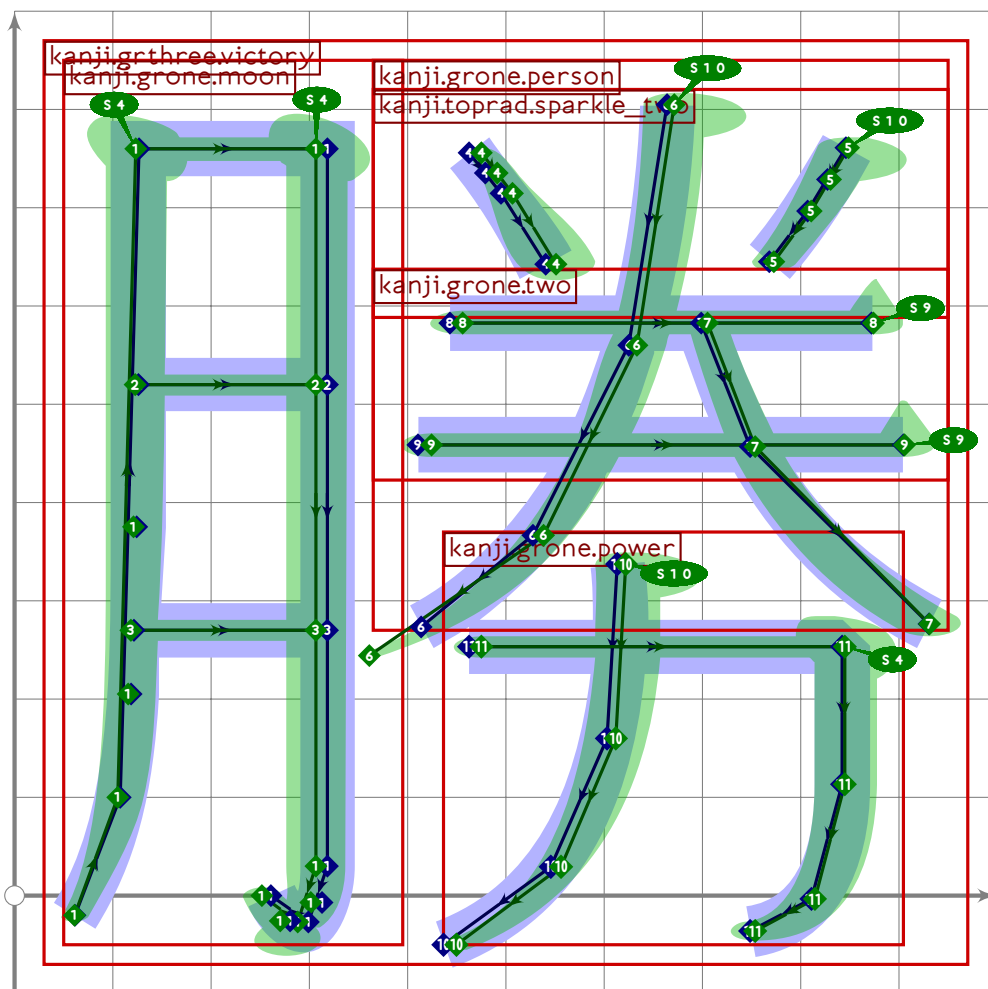
THRE

```

781
782 vardef kanji.grthree.truth =
783   push_pbox_toexpand("kanji.grthree.truth");
784   build_kanji.level(build_kanji.tb(200,-60)
785     (build_kanji.tb(500,70)
786       (kanji.grone.ten)
787       (kanji.grone.ey))
788   (push_stroke((100,850)-(900,850),(1.6,1.6)-(1.6,1.6));
789     set_boserif(0,1,9);
790     push_stroke((320,630)..tension 1.3..(220,210)..(100,-60),
791       (1.6,1.6)-(1.5,1.5)-(1,1));
792     set_boserif(0,0,10);
793     push_stroke((630,680)..tension 1.3..(760,370)..(860,0),
794       (1,1)-(1.5,1.5)-(1.8,1.8))));
795   expand_pbox;
796 enddef;

```

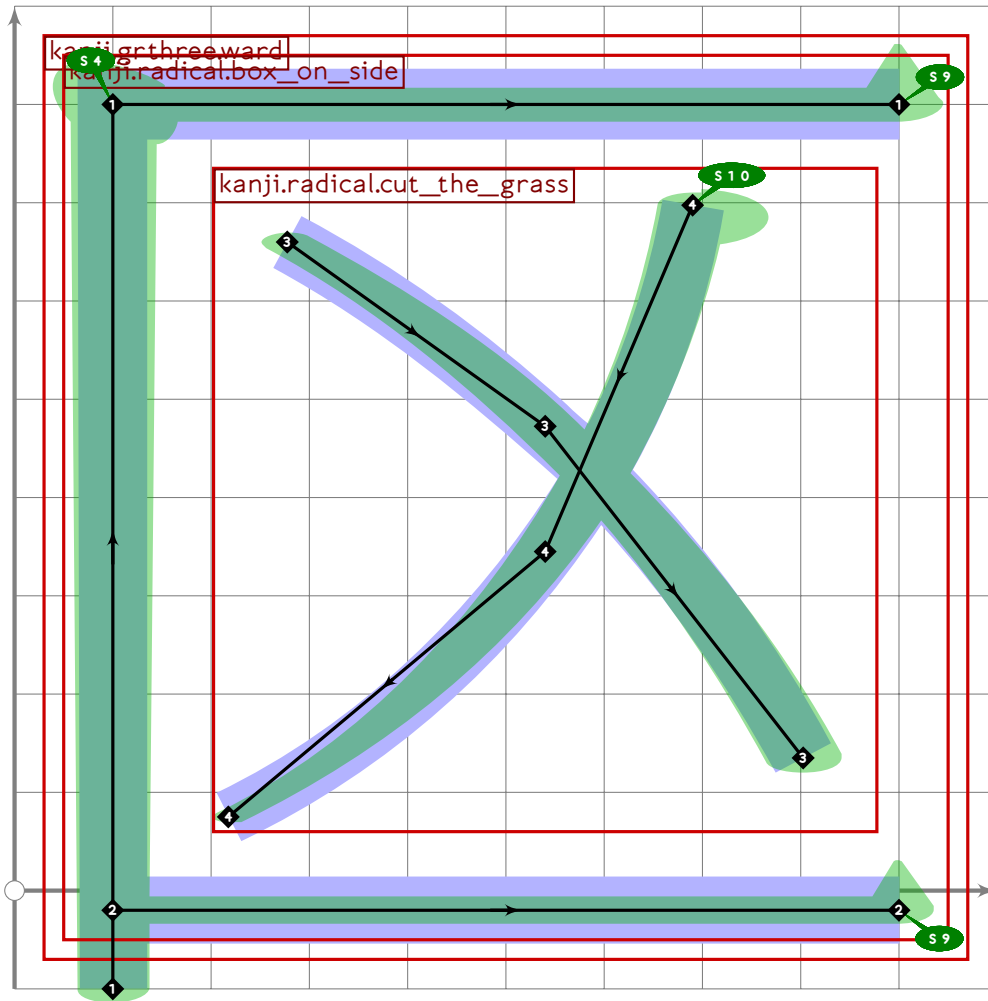
THRE



```

797
798 vardef kanji.grthree.victory =
799   push_pbox_toexpand("kanji.grthree.victory");
800   build_kanji.level(build_kanji.lr(380,30*(1-mincho))
801     (kanji.grone.moon)
802     (build_kanji.tb(320,100)
803       (build_kanji.sscale(yscaled 0.4 shifted (0,230))
804         (kanji.toprad.sparkle_two);
805         kanji.grone.person;
806         build_kanji.sscale(xyscaled (1,0.37) shifted (0,-40))
807         (kanji.grone.two);
808         replace_stroke(-2)
809         (subpath (xpart (oldp intersectiontimes get__stroke(-1)),infinity)
810           of oldp))
811         (build_kanji.sscale(xscaled 0.8 shifted (20,0))
812           (kanji.grone.power))));
813   expand_pbox;
814 enddef;

```



```

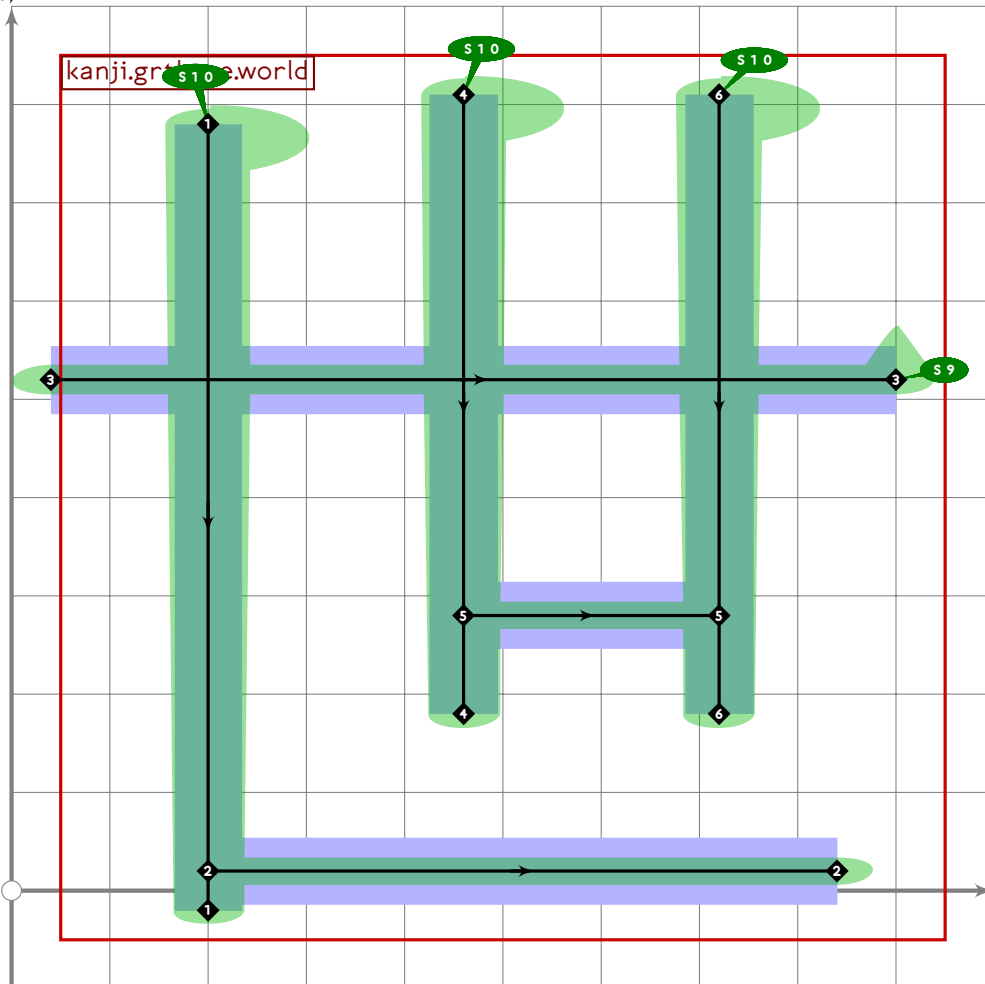
815
816 vardef kanji.grthree.ward =
817   push_pbox_toexpand("kanji.grthree.ward");
818   kanji.radical.box_on_side;
819   build_kanji.sscale(scaled 0.75 shifted (40,0))
820     (kanji.radical.cut_the_grass);
821   expand_pbox;
822 enddef;
823
824 vardef hook.world_corner(expr side_i,bottom_i) =
825   if (obstacktype[side_i]=otstroke) and (obstacktype[bottom_i]=otstroke):
826     if (1=length obstackp[side_i]) and (1=length obstackp[bottom_i]):
827       begingroup;
828       save x,y,p,e;
829       numeric x[],y[],e[];
830       path p[];
831
832       p1=obstackp[side_i];
833       p2=obstackp[bottom_i];
834
835       z2=(direction 0.5 of p2)/abs(direction 0.5 of p2);

```

U+4E16  
tsuku.uni4E16

```
836 z3=(direction 1 of p1)/abs(direction 1 of p1);
837
838 if abs(z3 dotprod z2)<0.1:
839   point 1 of p1=z5+e2*z3;
840   z5=(point 1 of p2)+whatever*z2;
841   e3=obstackna.bosize[bottom_i]*tsu_brush_max.brletter
842     *tsu_brush_shape.brletter*0.5;
843
844   if e2<e3:
845     p1:=(point 0 of p1)-(z5+e3*z3);
846     obstackp[side_i]:=p1;
847   fi;
848 fi;
849 endgroup;
850 fi;
851 fi;
852 enddef;
```

THRE



```
853
854 vardef kanji.grthree.world =
855   push_pbox_toexpand("kanji.grthree.world");
856   build_kanji.box((200,780),(840,20));
```

```

857 replace_strokep(-1)(reverse subpath (0,1) of oldp);
858 replace_strokeq(-1)(reverse subpath (0,1) of oldq);
859 set_boserif(-1,0,10);
860 set_boserif(-1,1,whatever);
861 set_botip(-1,1,whatever);
862 pop_hook;
863 push_hook(hsmain_render,
864   "hook.world_corner("&(decimal find_stroke(-1))&"
865     &(decimal find_stroke(0))&");" );
866 push_stroke((40,520)-(900,520),
867   (1,6,1,6)-(1,6,1,6));
868 set_boserif(0,1,9);
869 build_kanji.box((460,810),(720,280));
870 set_boserif(-1,0,10);
871 set_boserif(-1,1,whatever);
872 set_botip(-1,1,whatever);
873 push_stroke(subpath (2,3) of get_strokep(-1),
874   subpath (2,3) of get_strokeq(-1));
875 replace_strokep(-2)(reverse subpath (0,1) of oldp);
876 replace_strokeq(-2)(reverse subpath (0,1) of oldq);
877 set_boserif(0,0,10);
878 expand_pbox;
879 endif;

```



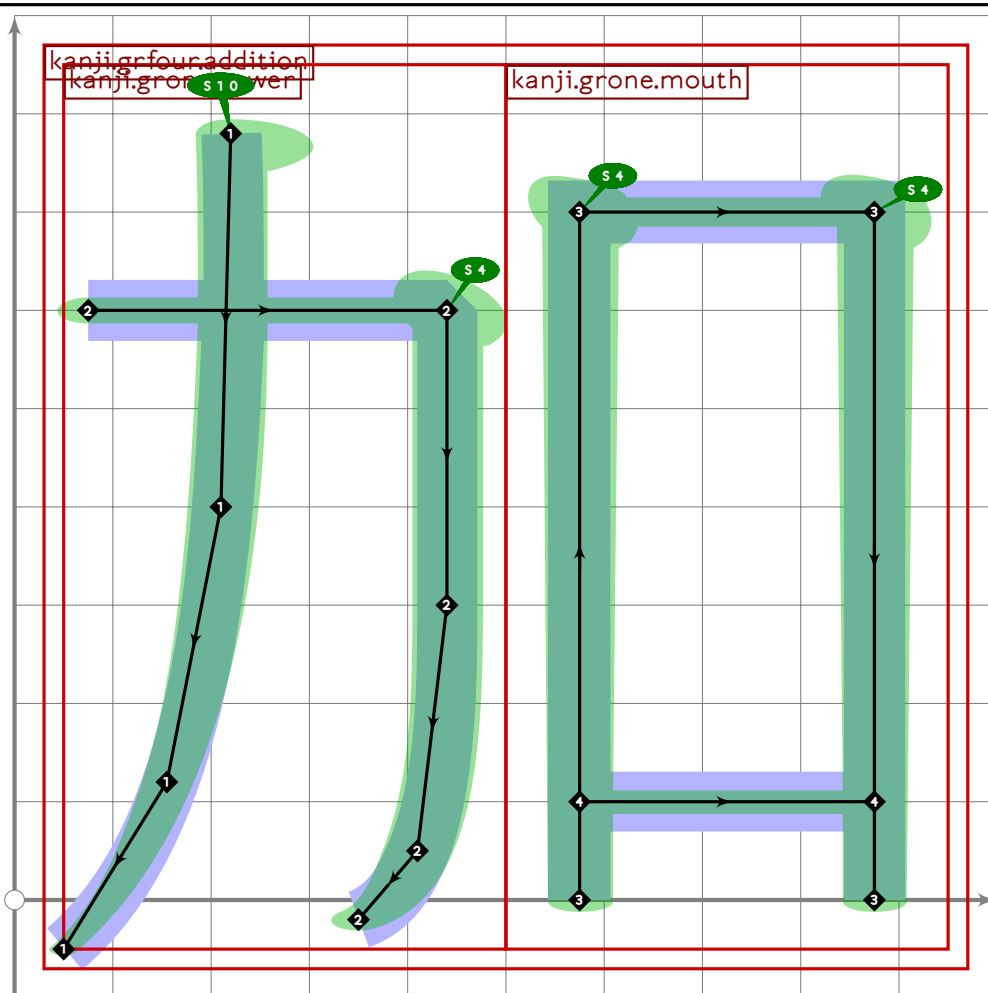
# gradefour.mp

```

1 %
2 % Grade Four kanji used on more than one page
3 % Copyright (C) 2011, 2012, 2013, 2014, 2016 Matthew Skala
4 %
5-29 [Standard copyright notice]
30
31 inclusion_lock(gradefour);
32
33

```

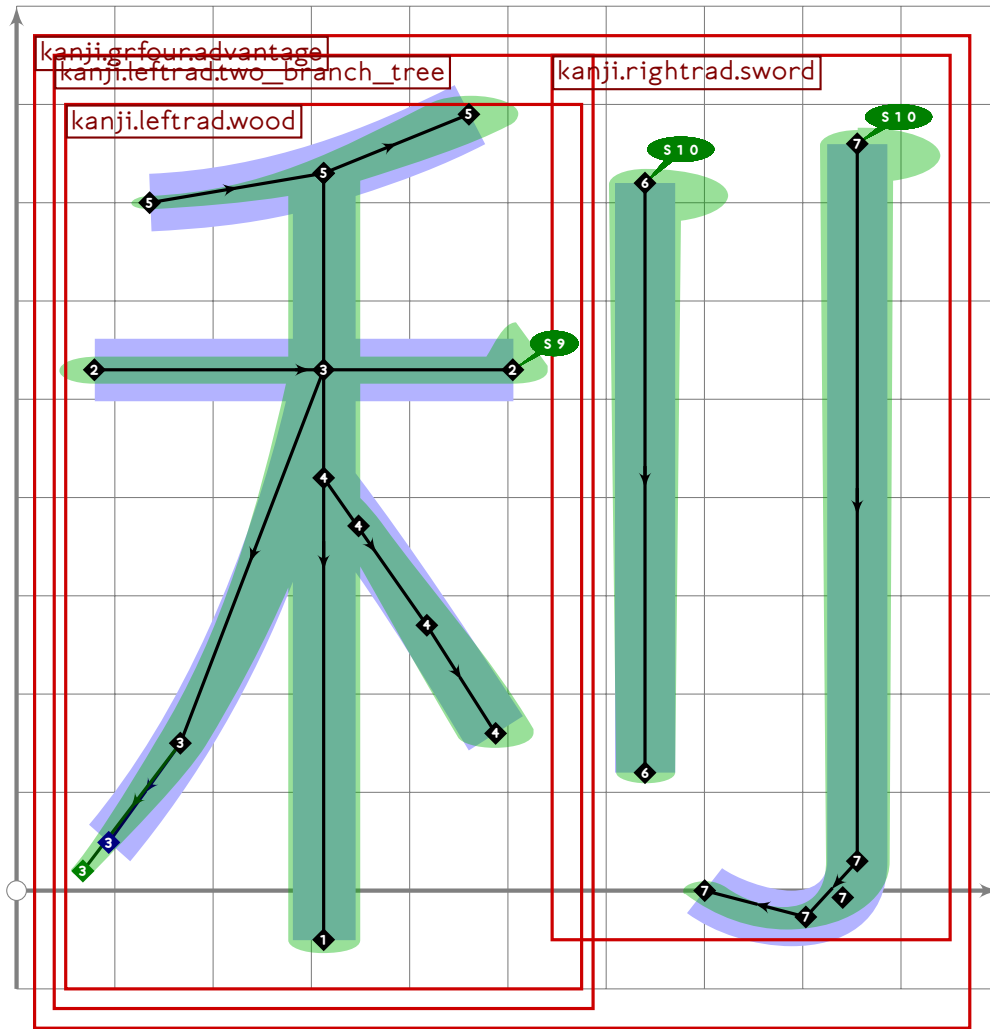
FOUR



```

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;

```



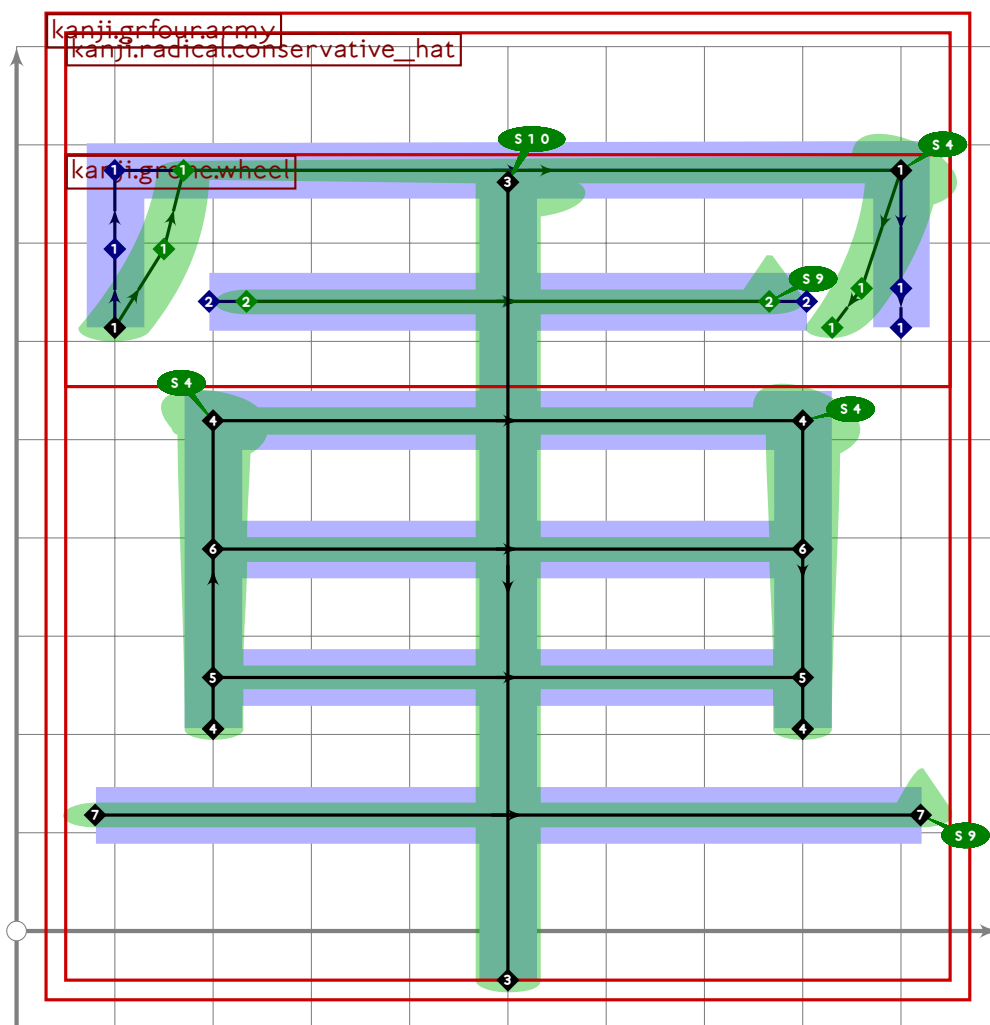
FOUR

```

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;

```

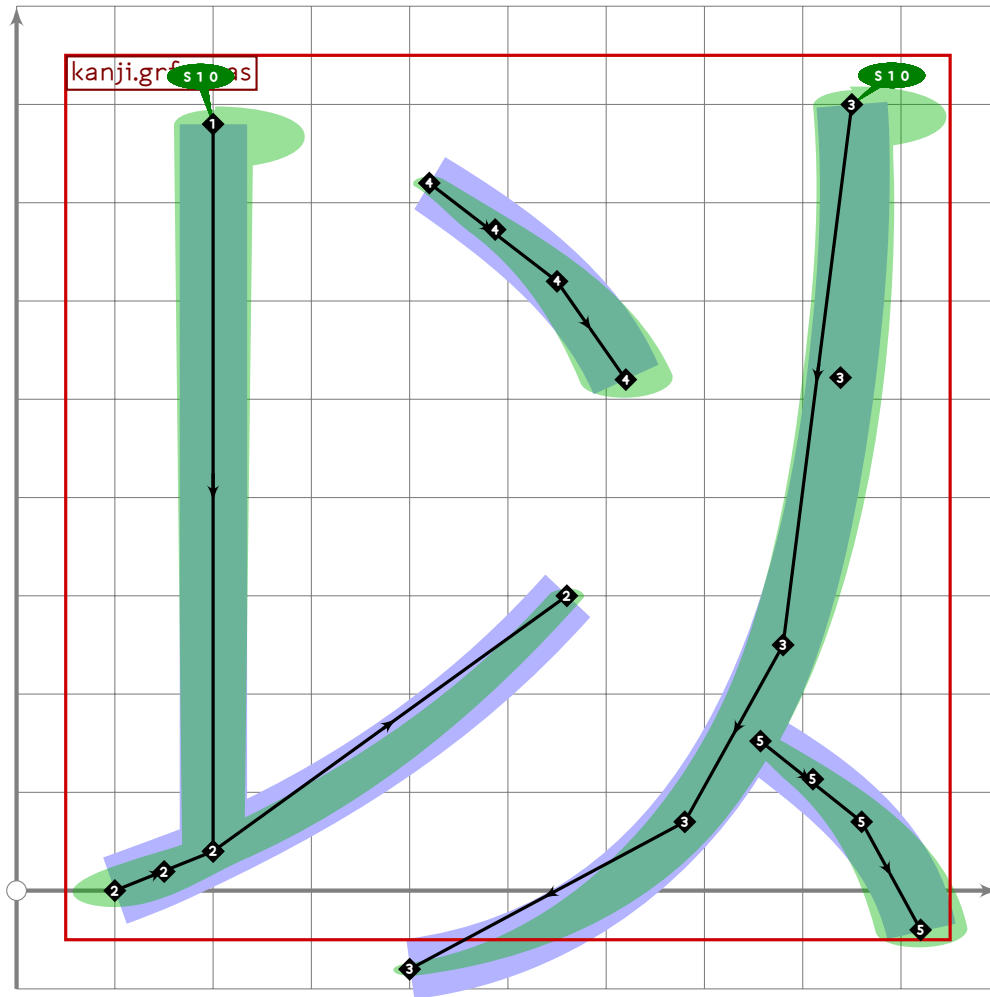
FOUR



```

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_strokep(-5)(subpath (0.1+0.05*mincho,0.9-0.05*mincho) of oldp)));
57   expand_pbox;
58 enddef;

```



FOUR

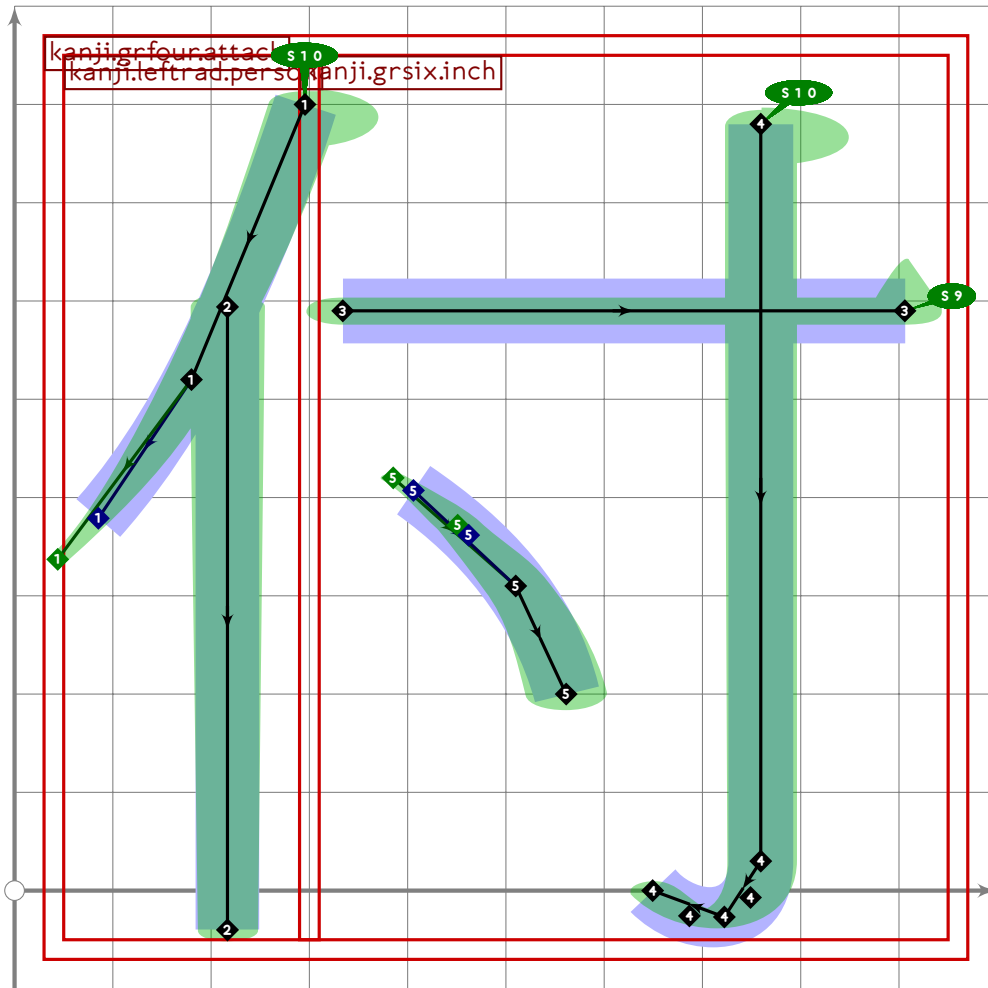
```

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)-(1.55,1.55)-(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

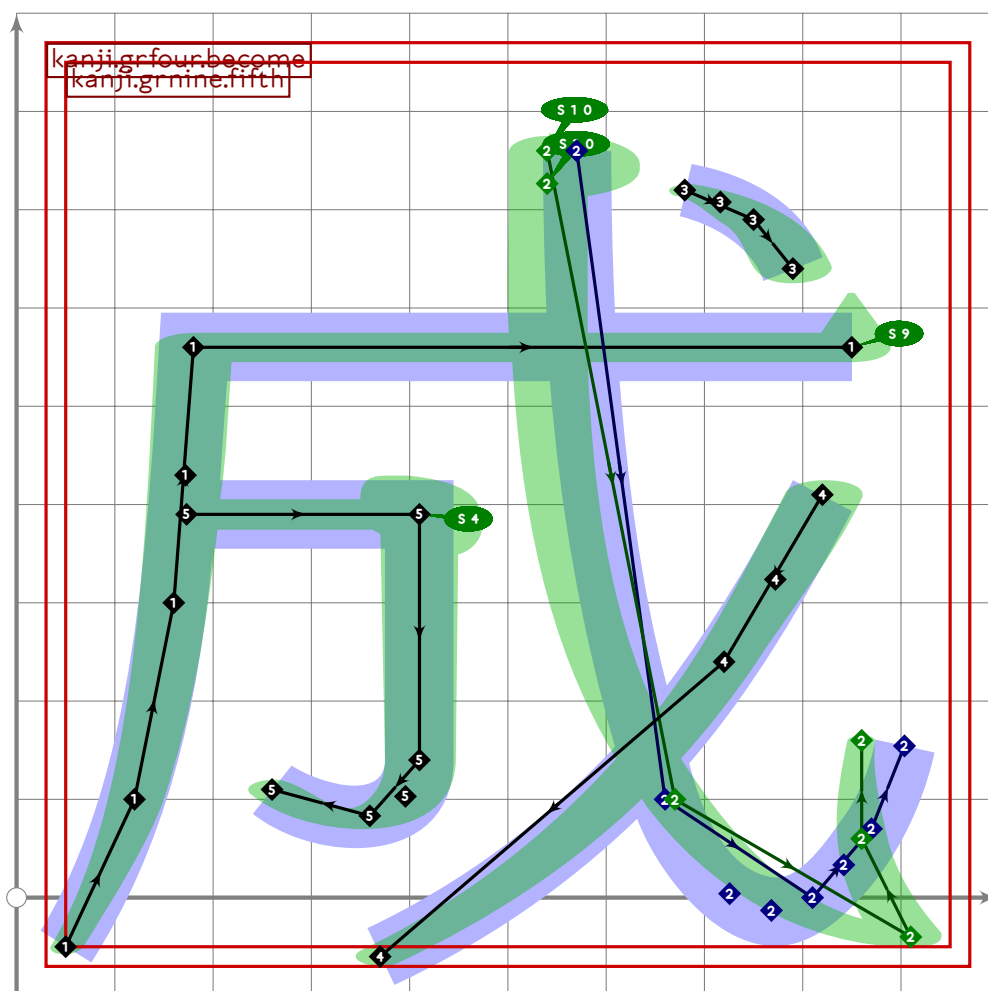
FOUR



```

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

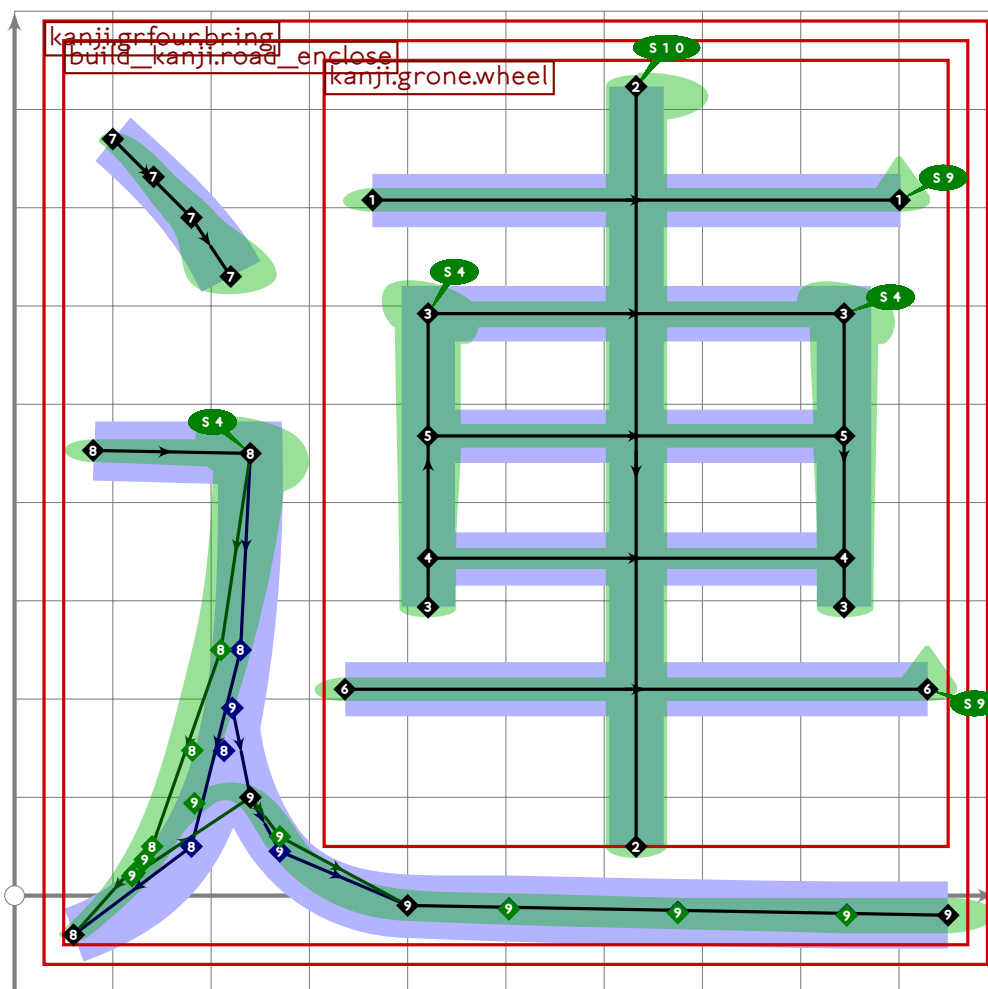
```

86
87 vardef kanji.grfour.become =
88   push_pbox_toexpand("kanji.grfour.become");
89   kanji.grnine.fifth;
90   push_stroke((173,280)–(410,280),
91     (1.6,1.6)–(1.6,1.6));
92   build_kanji.add_jtail(0);
93   replace_strokep(0)(oldp shifted (0,110));
94   set_boserif(0,1,4);
95   set_botip(0,1,1);
96   expand_pbox;
97 enddef;

```

U+9023  
tsuku.uni9023

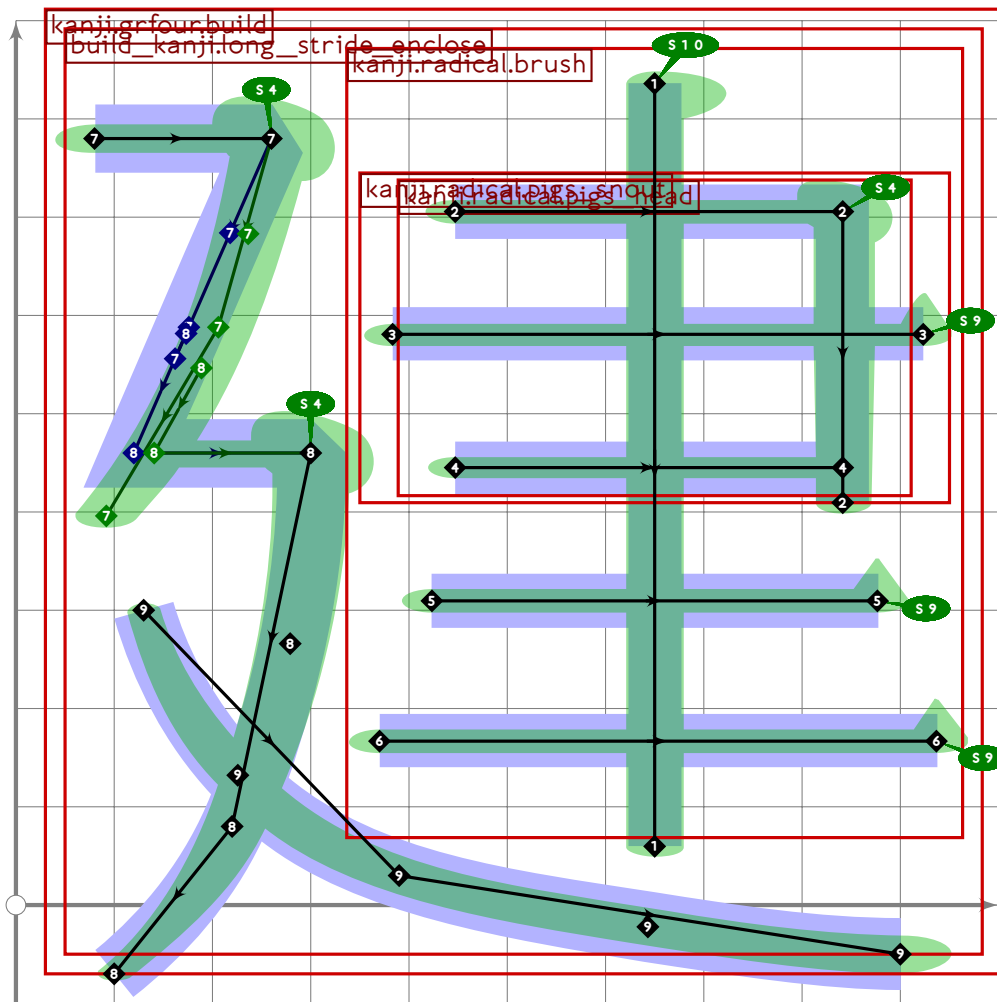
FOUR



```

98
99 vardef kanji.grfour.bring =
100   push_pbox_toexpand("kanji.grfour.bring");
101   build_kanji.road_enclose(kanji.grone.wheel);
102   expand_pbox;
103 enddef;

```



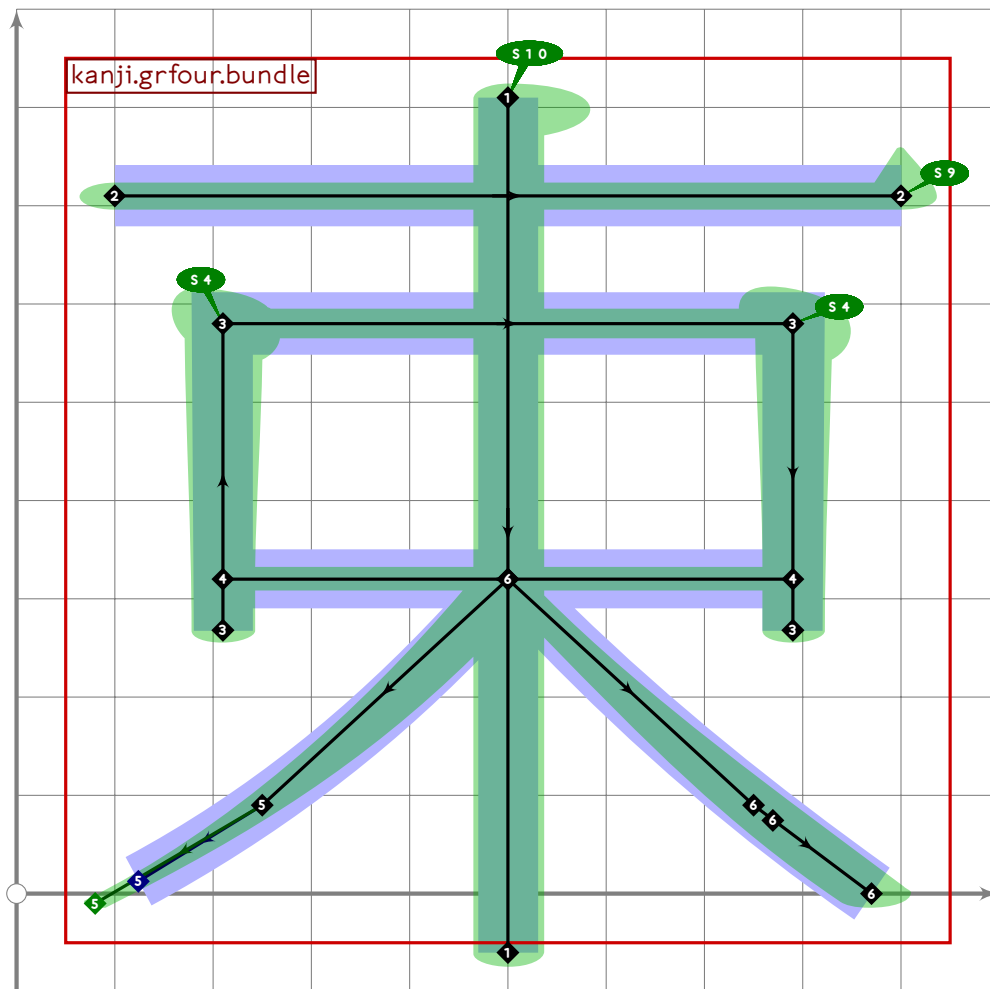
FOUR

```

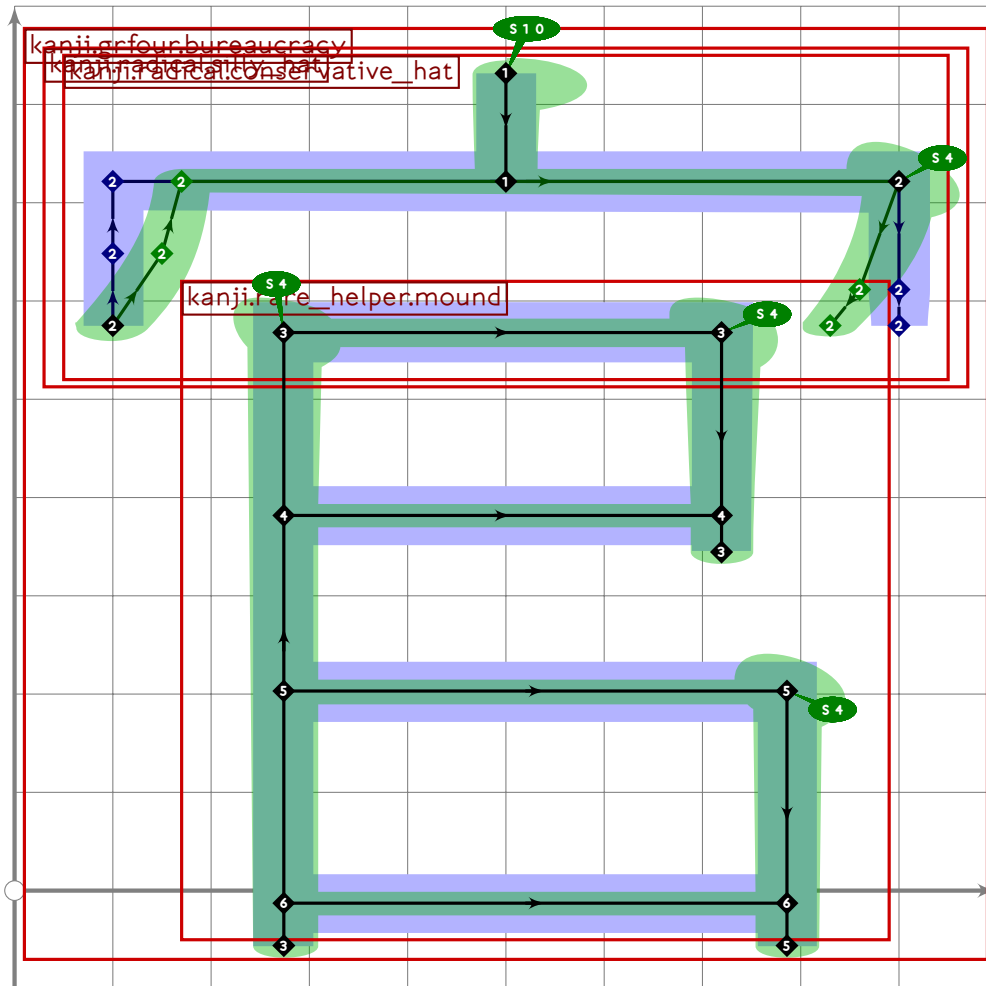
104
105 vardef kanji.grfour.build =
106   push_pbox_toexpand("kanji.grfour.build");
107   build_kanji.long_stride_enclose(false)
108     (build_kanji.sscale(yscaled 1.1 shifted (0,30))(kanji.radical.brush));
109   expand_pbox;
110 enddef;

```





678



FOUR

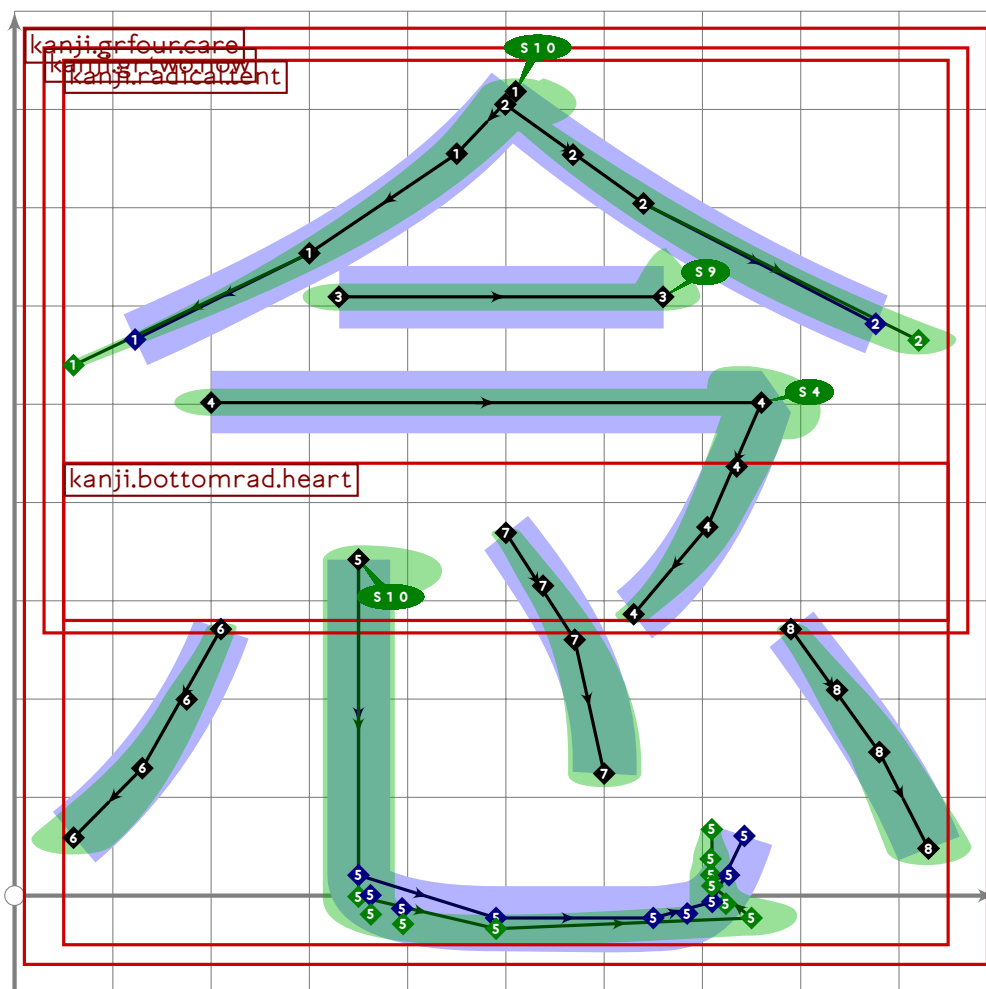
```

128
129 vardef kanji.grfour.bureaucracy =
130   push_pbox_toexpand("kanji.grfour.bureaucracy");
131   build_kanji.level(build_kanji.tb(570,100)
132     (kanji.radical.silly_hat)
133     (build_kanji.scale(xscaled 0.8 shifted (30,0))
134       (kanji.rare_helper.mound)));
135   expand_pbox;
136 enddef;

```

U+5FF5  
tsuku.uni5FF5

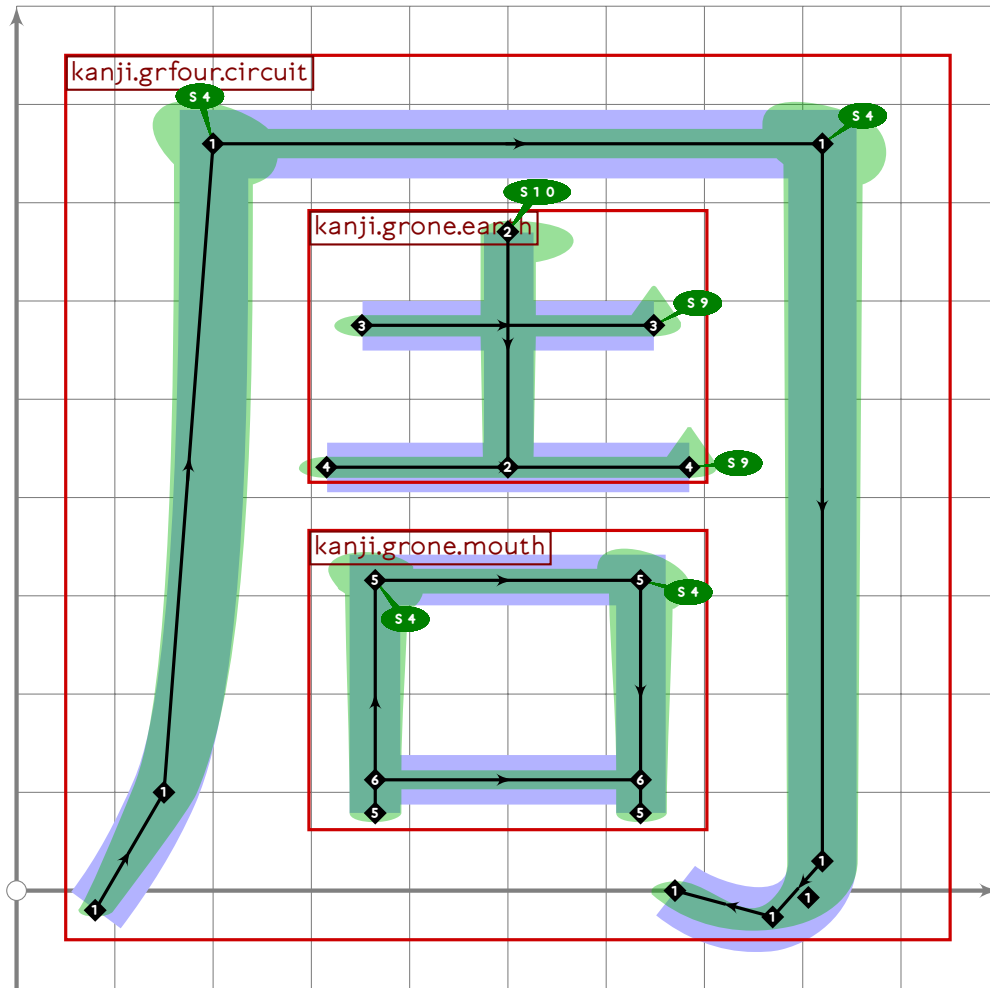
FOUR



```

137
138 vardef kanji.grfour.care =
139   push_pbox_toexpand("kanji.grfour.care");
140   build_kanji.level(build_kanji.tb(360,160)
141     (kanji.grtwo.now;
142       replace_strokep(0)
143         ((point 0 of oldp)–
144           (subpath (1,infinity) of (oldp shifted (–point 1 of oldp)
145             xscaled 0.5
146             shifted (point 1 of oldp))))))
147   (kanji.bottomrad.heart));
148   expand_pbox;
149 enddef;

```



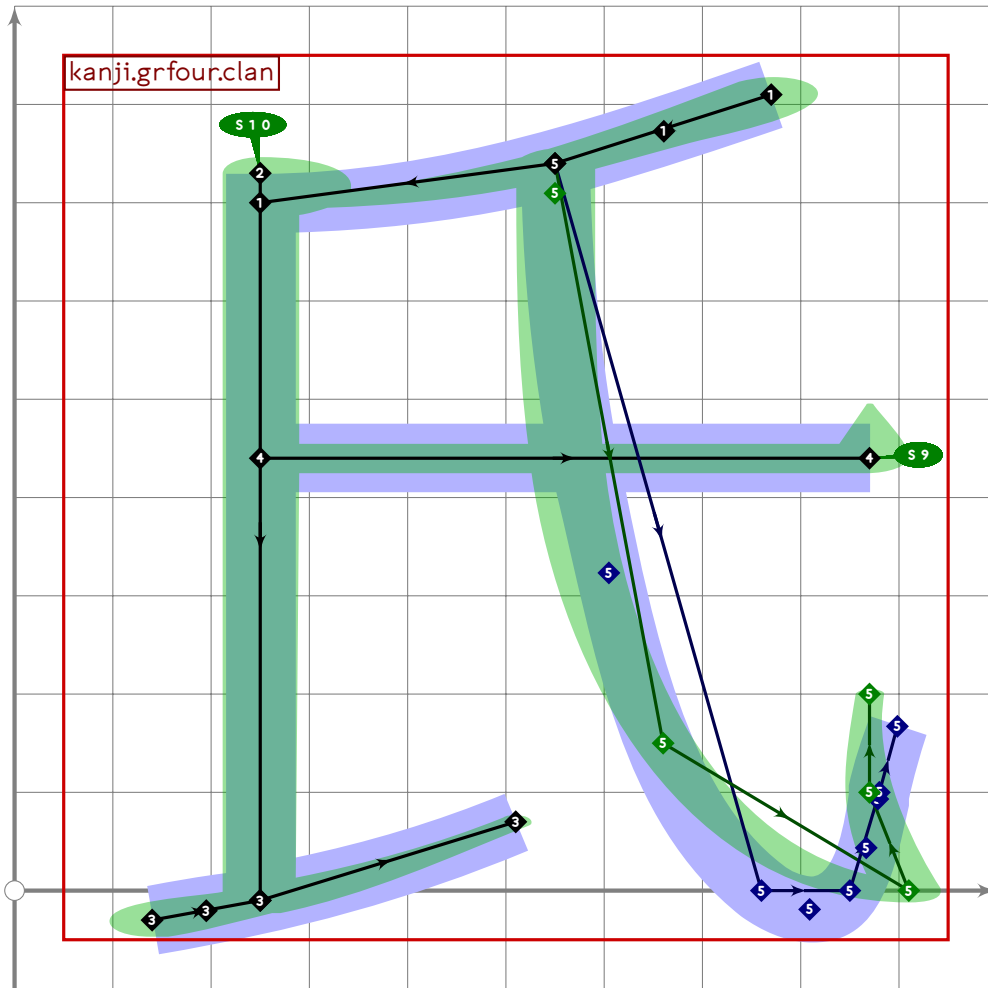
FOUR

```

150
151 vardef kanji.grfour.circuit =
152   push_pbox_toexpand("kanji.grfour.circuit");
153   push_stroke((80,-20)..(150,100)..{up}(200,760){right}-(820,760),
154     (1,1)-(14,14)-(1.6,1.6)-(1.6,1.6));
155   build_kanji.add_jtail(0);
156   set_botip(0,2,0.8);
157   set_botip(0,3,1);
158   set_boserif(0,2,4);
159   set_boserif(0,3,4);
160   build_kanji.sscale(xyscaled (0.45,0.7) shifted (0,-20))
161     (build_kanji.tb(420,-70)
162       (kanji.grone.earth)
163       (kanji.grone.mouth));
164   expand_pbox;
165 enddef;

```

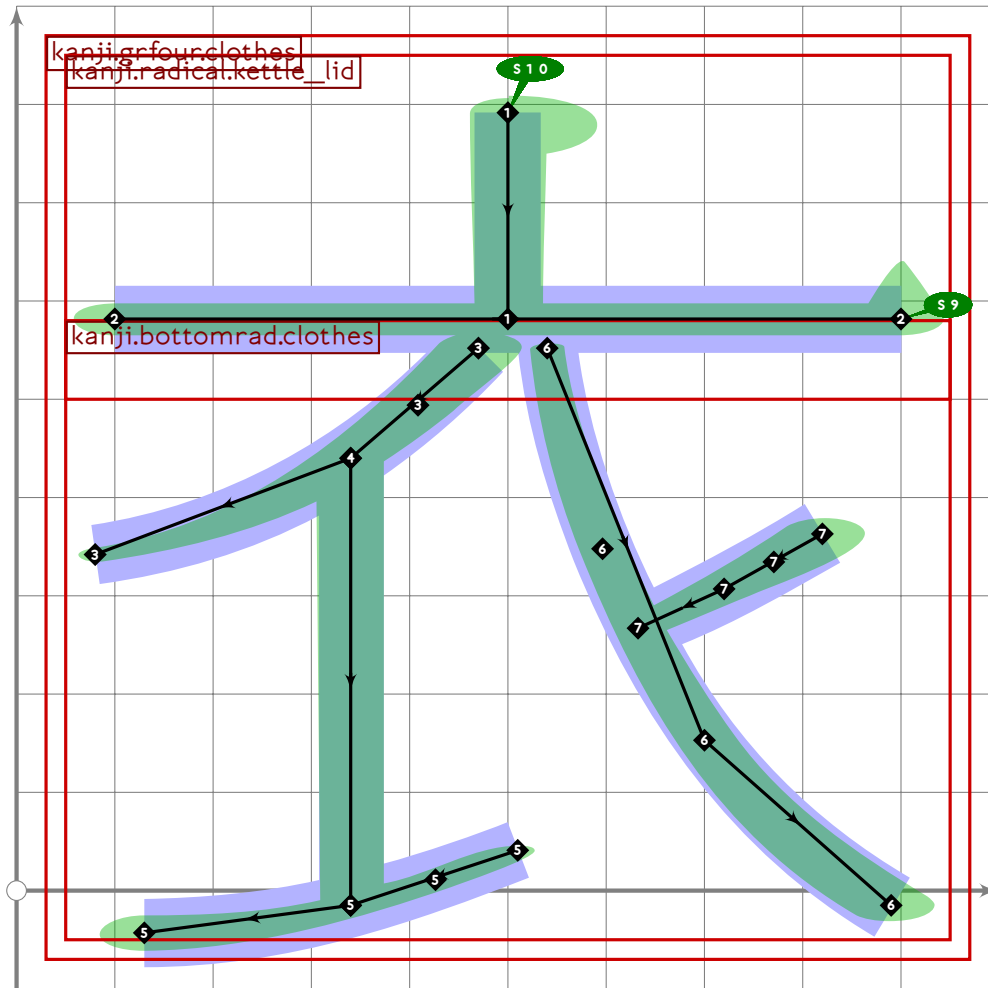
FOUR



```

166
167 vardef kanji.grfour.clan =
168   push_pbox_toexpand("kanji.grfour.clan");
169   push_stroke((770,810)..tension 1.2..(550,740)..(250,700),
170     (1.8,1.8)–(1.5,1.5)–(1,1));
171   push_stroke((250,730)–(250,10),
172     (1.6,1.6)–(1.5,1.5));
173   set_boserif(0,0,10);
174   push_stroke((140,30)..tension 1.2..(250,10)..(510,70),
175     (1.7,1.7)–(1.5,1.5)–(1,1));
176   push_stroke((250,440)–(870,440),(1.6,1.6)–(1.6,1.6));
177   set_boserif(0,1,9);
178   push_stroke(interpath(mincho,
179     (550,740){down}..tension 1.2 and 1.6..(760,0)..(850,0)..tension 1.5..
180     (880,100)..(910,200),
181     (550,740){down}..(660,150)..{right}(910,0){curl 1}..
182     (870,100)..(870,200)),
183     (1.6,1.6)–(1.4,1.4)–(1.4,1.4)–(1.2,1.2)–(0.9,0.9));
184   expand_pbox;
185 enddef;

```



FOUR

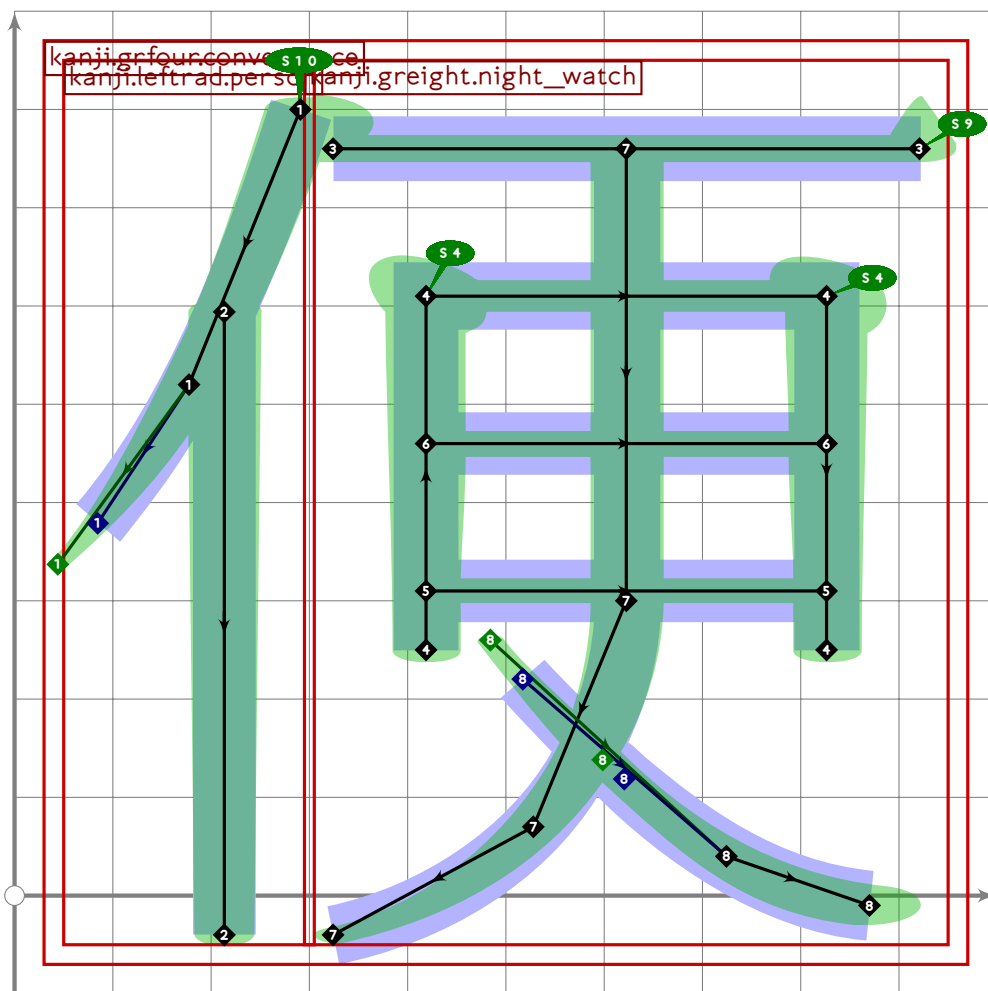
```

186
187 vardef kanji.grfour.clothes =
188   push_pbox_toexpand("kanji.grfour.clothes");
189   build_kanji.level(build_kanji.tb(540,80)
190     (kanji.radical.kettle_lid)
191     (kanji.bottomrad.clothes));
192   expand_pbox;
193 enddef;

```

U+4FBF  
tsuku.uni4FBF

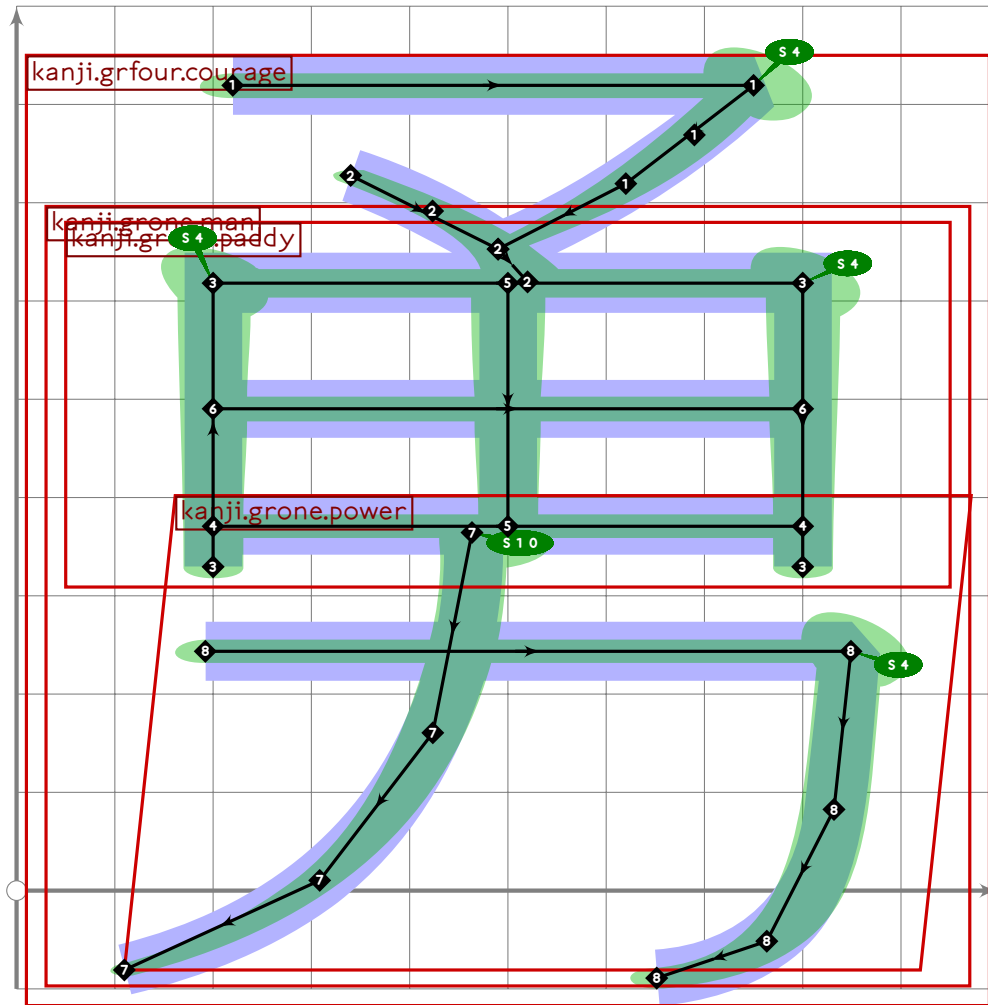
FOUR



```

194
195 vardef kanji.grfour.convenience =
196   push_pbox_toexpand("kanji.grfour.convenience");
197   build_kanji.lr(300,10)
198     (kanji.leftrad.person)
199     (kanji.greight.night_watch);
200   expand_pbox;
201 enddef;

```



FOUR

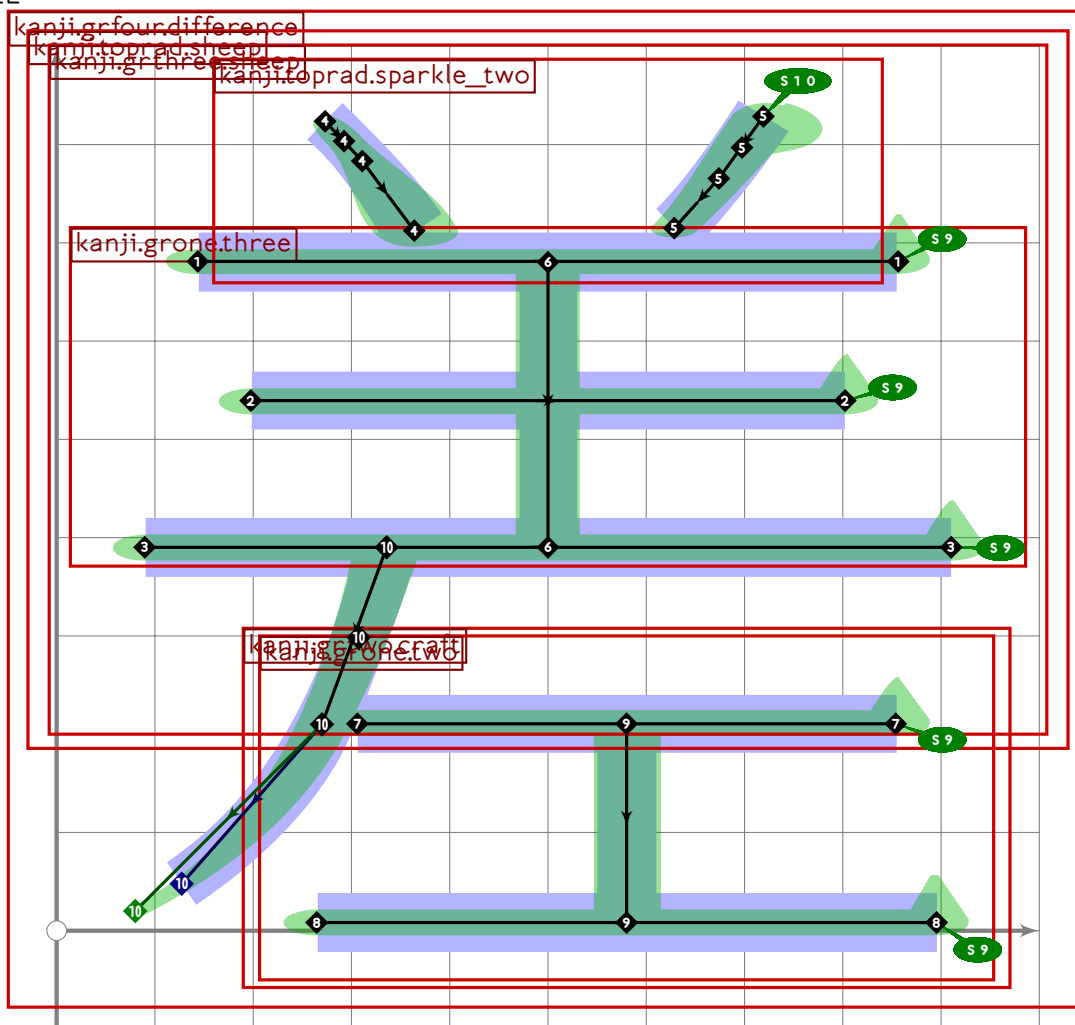
```

202
203 vardef kanji.grfour.courage =
204   push_pbox_toexpand("kanji.grfour.courage");
205   build_kanji.level(build_kanji.tb(640,80)
206     (push_stroke((220,740)-(750,740)..tension 1.2..(620,380)..(490,140),
207       (1.6,1.6)-(1.6,1.6)-(1.4,1.4)-(1.1,1.1)));
208     set_botip(0,1,0);
209     set_boserif(0,1,4);
210     push_stroke((340,410)..tension 1.2..(490,140)..(520,20),
211       (1.1,1.1)-(1.5,1.5)-(1.8,1.8)))
212     (kanji.grone.man));
213   expand_pbox;
214 enddef;

```



FOUR



```

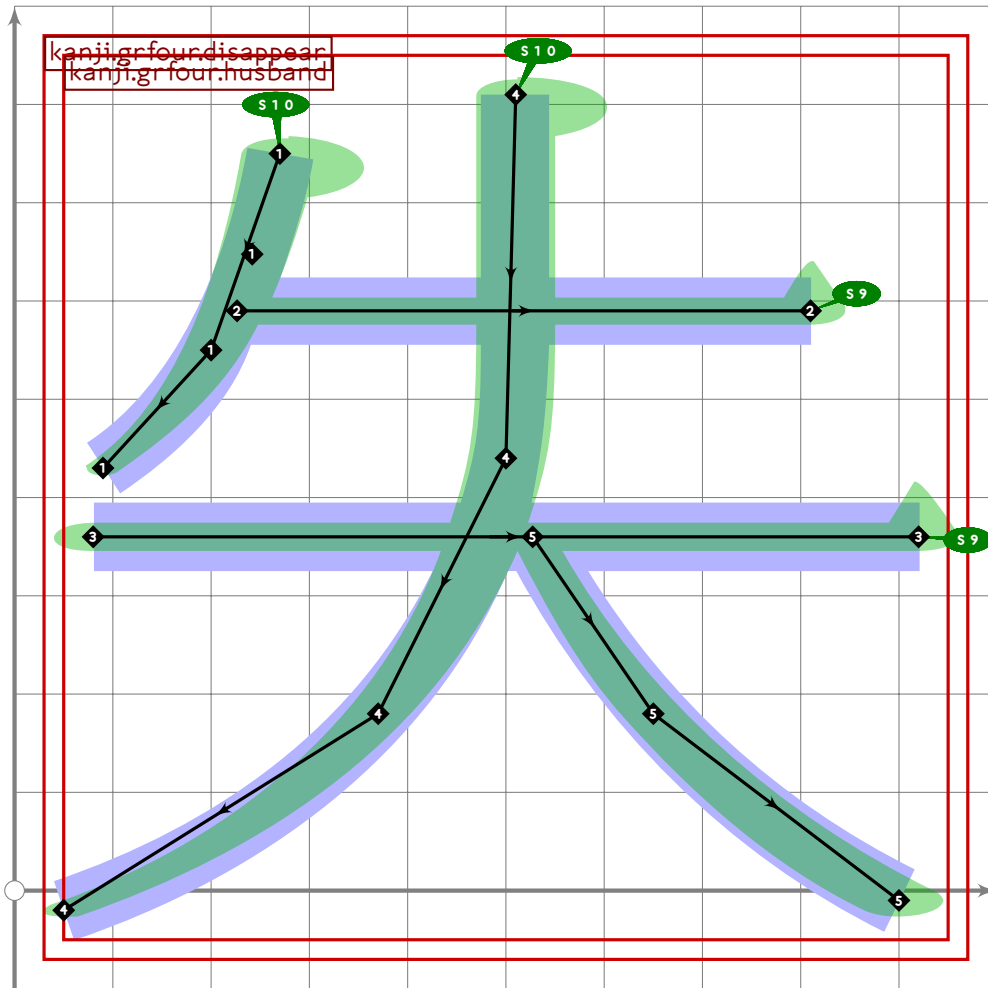
215
216 vardef kanji.grfour.difference =
217   push_pbox_toexpand("kanji.grfour.difference");
218   build_kanji.level(
219     build_kanji.tb(250,100)
220     (build_kanji.sscale(xscaled 1.08)(kanji.toprad.sheep))
221     (build_kanji.sscale(xscaled 0.83 shifted (80,0))(kanji.grtwo.craft));
222   push_stroke(
223     (point 0.30 of get_stroke(-6))..tension 1.2..(270,210)..(80,20),
224     (1.6,1.6)-(1.4,1.4)-(0.9,0.9));
225   expand_pbox;
226 enddef;

```



**FOUR**

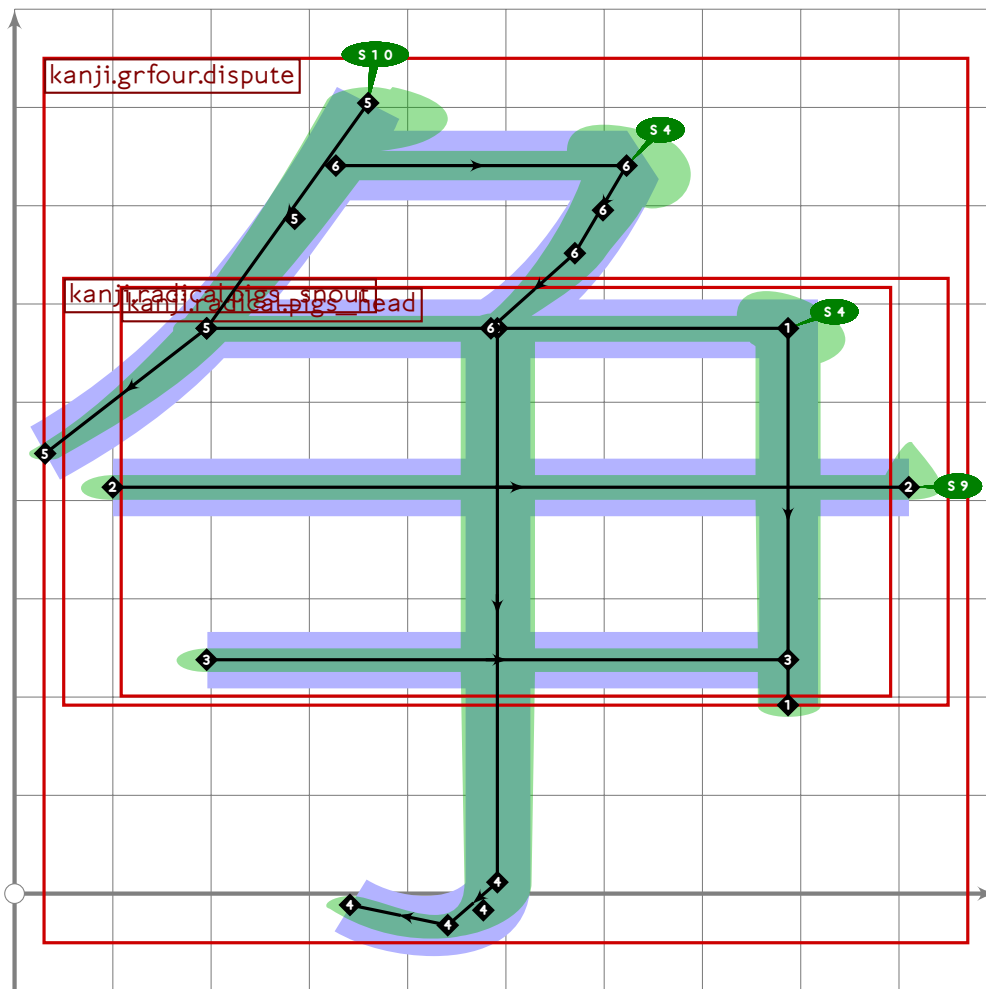
FOUR



```

246
247 vardef kanji.grfour.disappear =
248   push_pbox_toexpand("kanji.grfour.disappear");
249   push_stroke((270,750)..tension 1.2..(200,550)..(90,430),
250     (1.6,1.6)-(1.4,1.4)-(1,1));
251   set_boserif(0,0,10);
252   kanji.grfour.husband;
253   replace_stroke(-3)((100,590)-(810,590));
254   replace_stroke(-3)(subpath
255     (0.01+upart (oldp intersectiontimes get_stroke(-4)),1) of oldp);
256   expand_pbox;
257 enddef;

```



FOUR

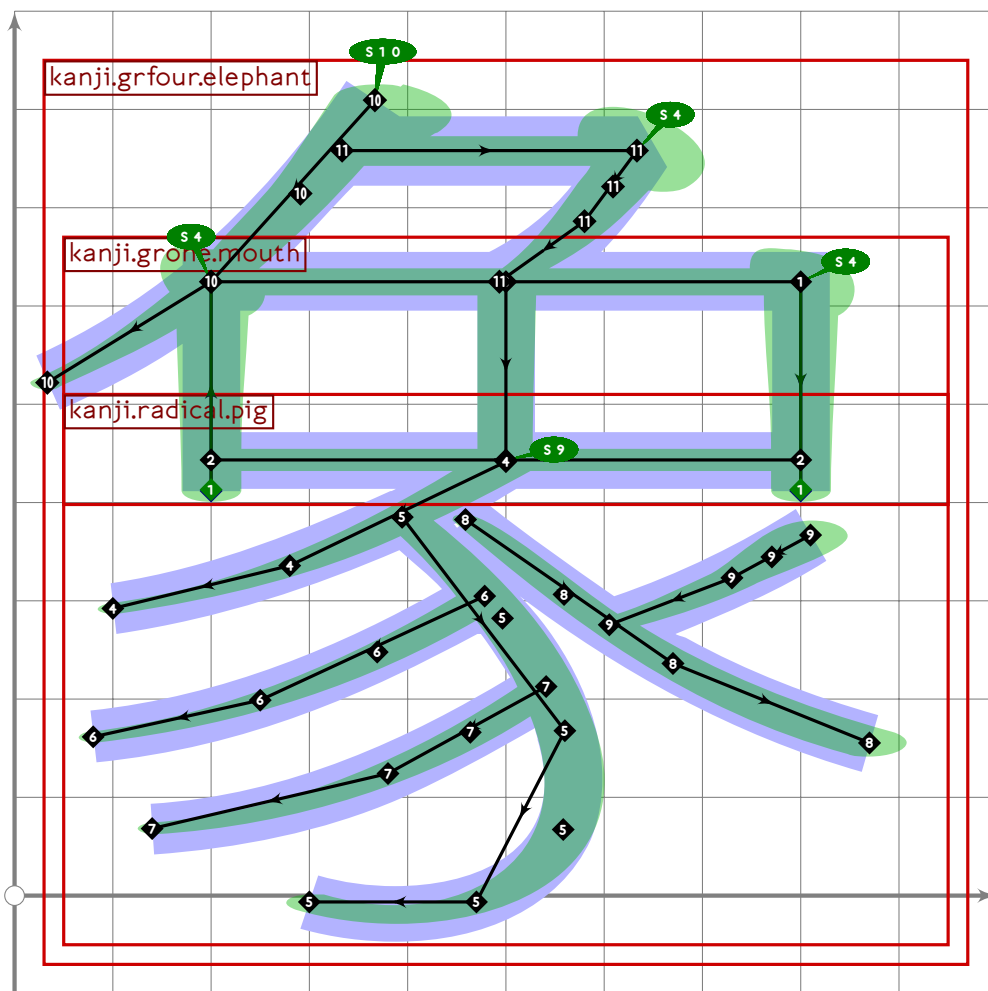
```

258
259 vardef kanji.grfour.dispute =
260   push_pbox_toexpand("kanji.grfour.dispute");
261   build_kanji.attach_fishhook(0.77)(
262     build_kanji.sscale(yscaled 0.6 shifted (0,150))
263     (kanji.radical.pigs_snout);
264     push_stroke((point 0.5 of get_stroke(-2)),((1.6,1.6)));
265     build_kanji.add_jtail(0));
266   expand_pbox;
267 enddef;

```

U+8C61  
tsuku.uni8C61

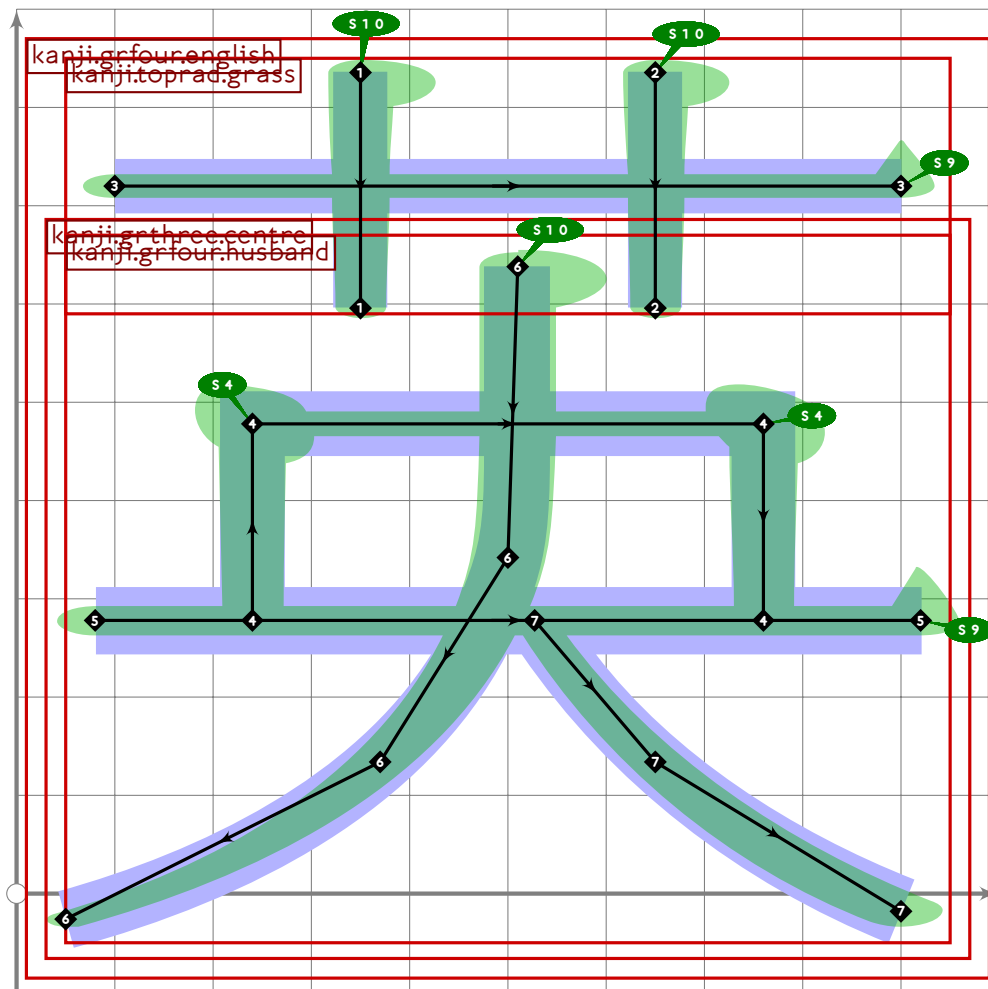
FOUR



```

268
269 vardef kanji.grfour.elephant =
270   push_pbox_toexpand("kanji.grfour.elephant");
271   build_kanji.attach_fishhook(0.8)
272   (build_kanji.level(build_kanji.tb(580,140)
273     (kanji.grone.mouth)
274     (kanji.radical.pig);
275   replace_strokep(-6)((point 1.5 of get_strokep(-8))
276     -(point 0.5 of get_strokep(-7)));
277   replace_strokeq(-6)((1.5,1.5)-(14,14)));
278   expand_pbox;
279 enddef;

```



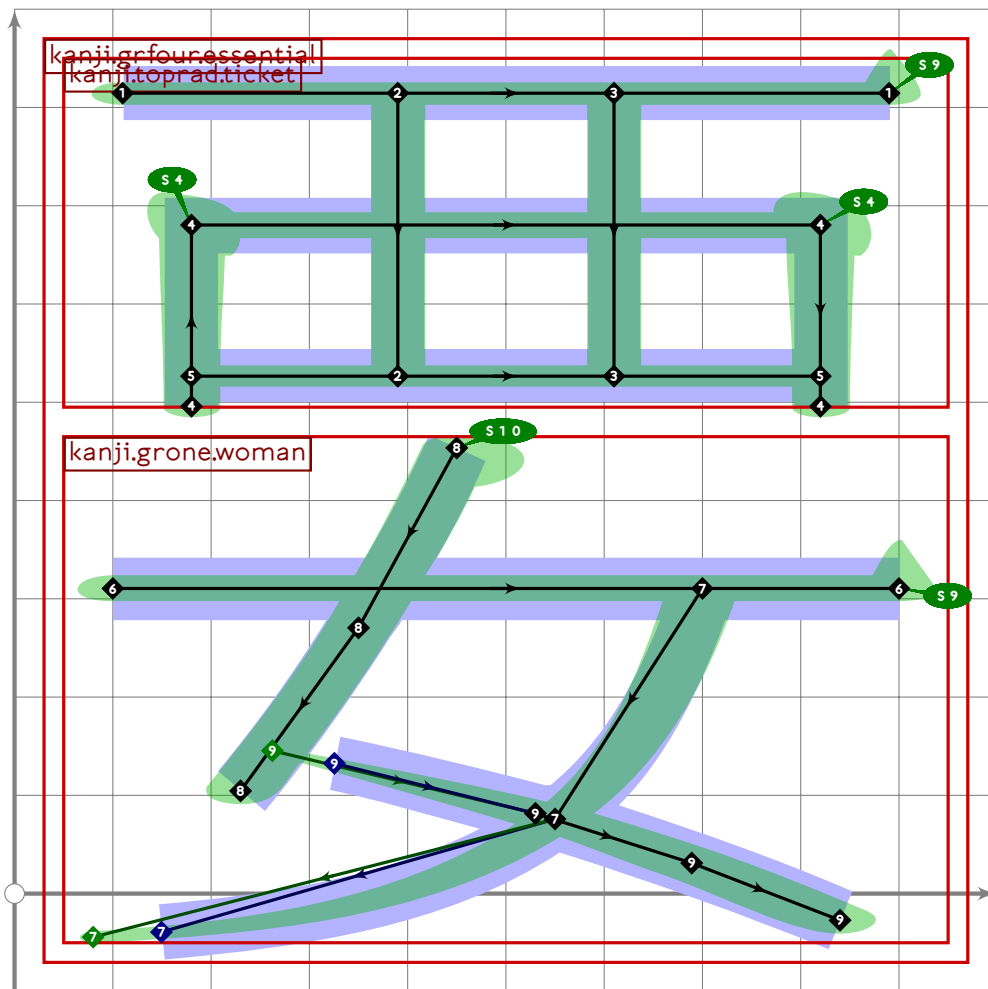
FOUR

```

280
281 vardef kanji.grfour.english =
282   push_pbox_toexpand("kanji.grfour.english");
283   build_kanji.tb(630,80)
284     (kanji.toprad.grass)
285     (kanji.grthree.centre);
286   expand_pbox;
287 enddef;

```

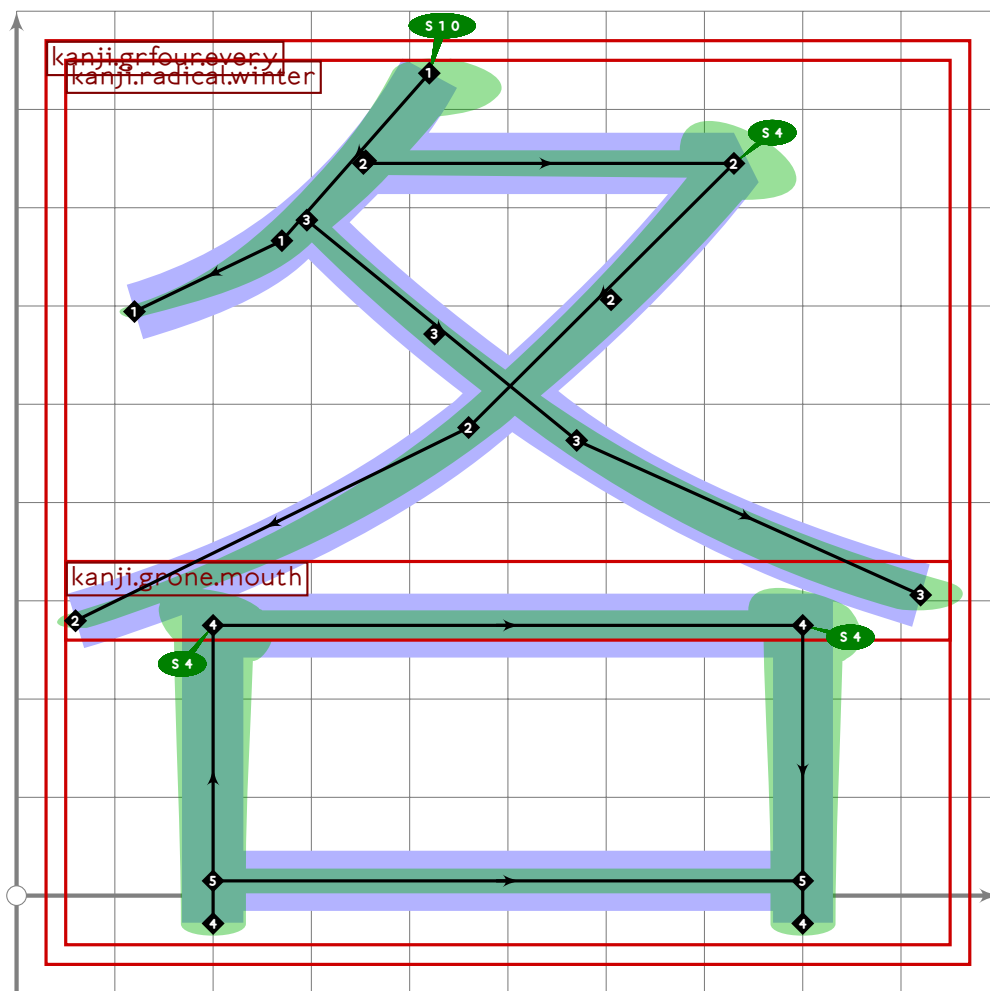
FOUR



```

288
289 vardef kanji.grfour.essential =
290   push_pbox_toexpand("kanji.grfour.essential");
291   build_kanji.tb(480,-30)
292     (kanji.toprad.ticket)
293     (kanji.grone.woman);
294   expand_pbox;
295 enddef;

```



FOUR

```

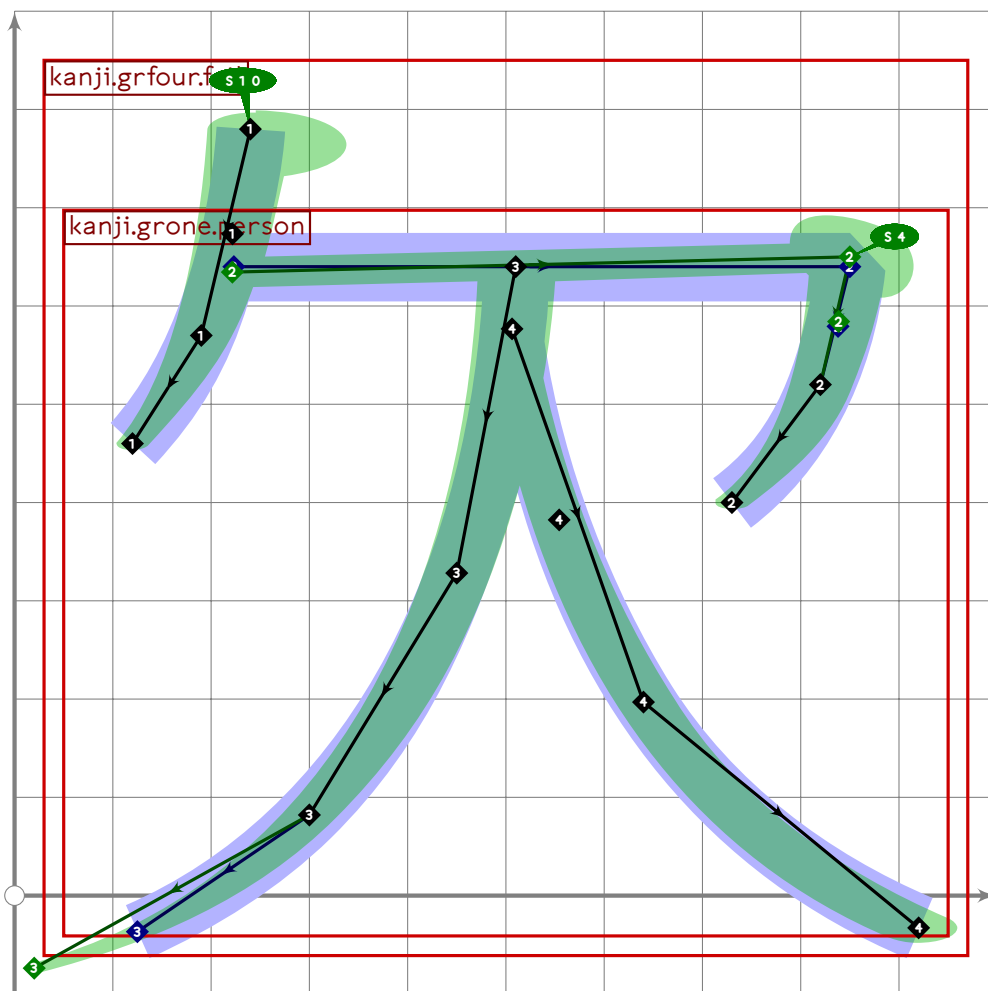
296
297 vardef kanji.grfour.every =
298   push_pbox_toexpand("kanji.grfour.every");
299   build_kanji.level(build_kanji.tb(300,80)
300     (kanji.radical.winter)
301     (kanji.grone.mouth));
302   expand_pbox;
303 enddef;

```



U+6B20  
tsuku.uni6B20

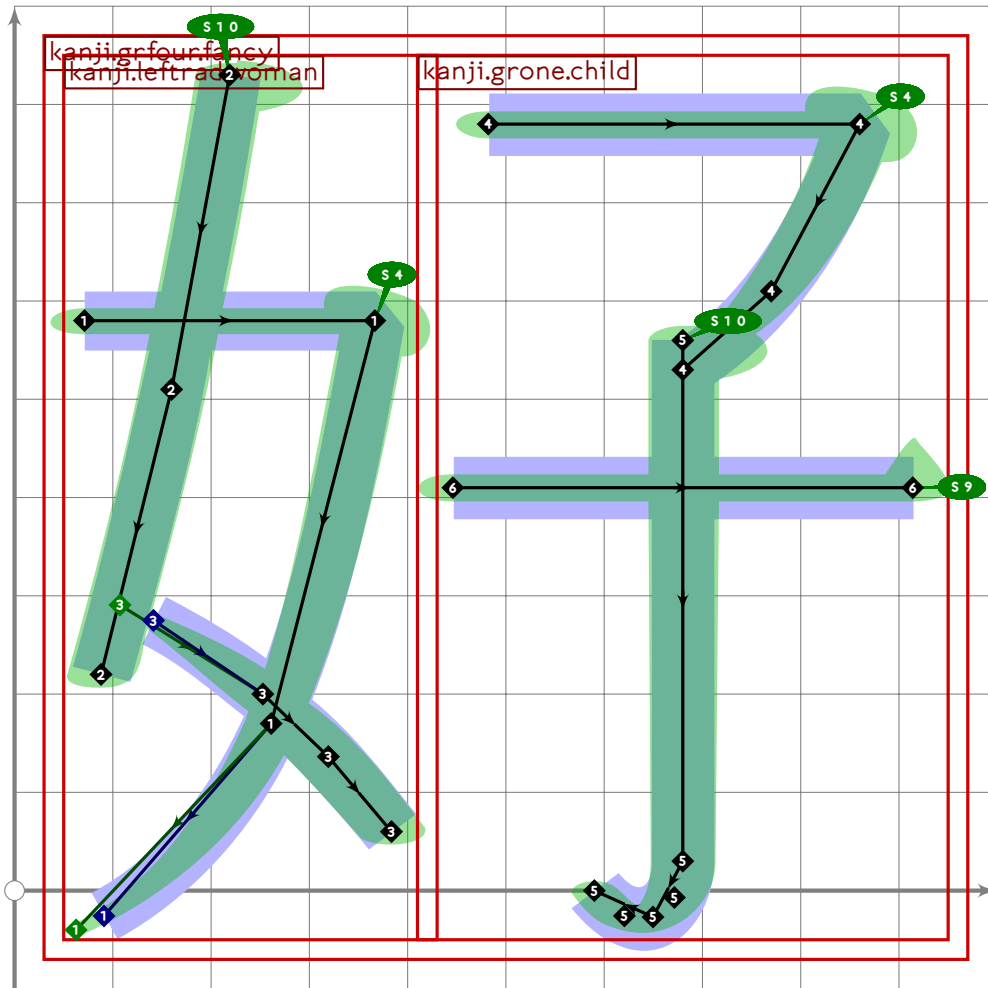
FOUR



```

304
305 vardef kanji.grfour.fail =
306   push_pbox_toexpand("kanji.grfour.fail");
307   push_stroke((240,780)..tension 1.2..(190,570)..(120,460),
308     (1.7,1.7)-(1.4,1.4)-(1,1));
309   set_boserif(0,0,10);
310   push_stroke(
311     ((get_strokep(0) intersectionpoint
312       ((0,640-7*mincho)-(1000,640))+(10,0)))--
313     ((850,640)+mincho*(0,10))..tension 1.2..(820,520)..(730,400),
314     (1.6,1.6)-(1.6,1.6)-(1.4,1.4)-(1,1));
315   set_boserif(0,14);
316   set_botip(0,1,0);
317   tsu_xform(identity yscaled (640/780))(kanji.grone.person);
318   set_boserif(-1,0,whatever);
319   expand_pbox;
320 enddef;

```



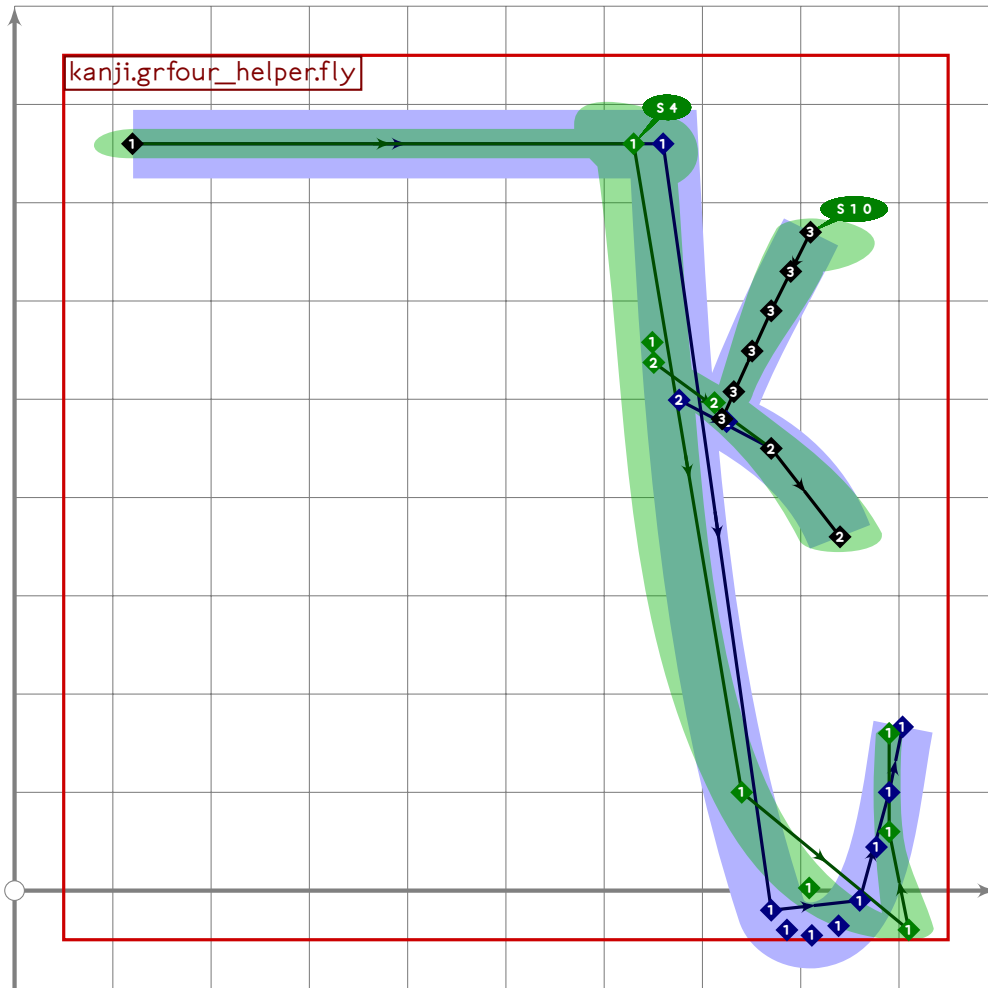
FOUR

```

321
322 vardef kanji.grfour.fancy =
323   push_pbox_toexpand("kanji.grfour.fancy");
324   build_kanji.lr(420,20)
325     (kanji.leftrad.woman)
326     (kanji.grone.child);
327   expand_pbox;
328 enddef;

```

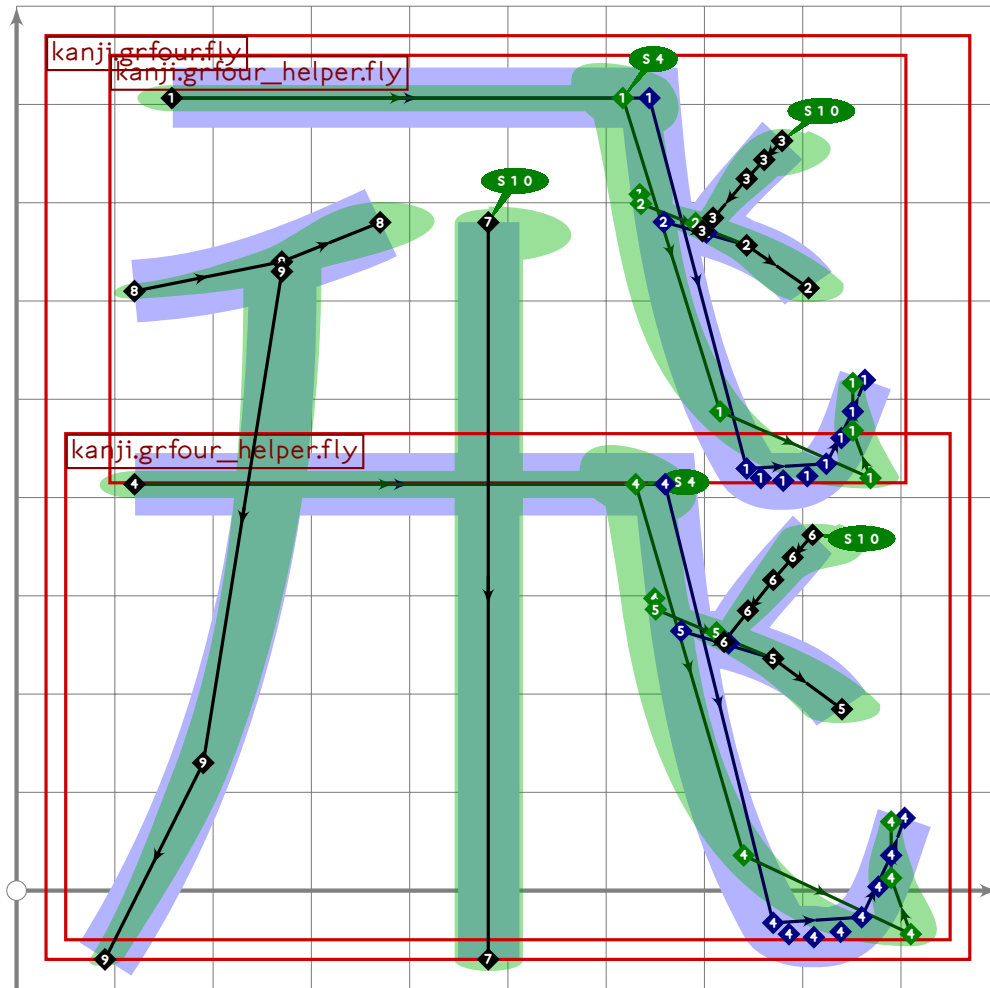
FOUR



```

329
330 vardef kanji.grfour_helper.fly =
331   push_pbox_toexpand("kanji.grfour_helper.fly");
332   push_stroke((120,760)-interpath(mincho,
333     (660,760){dir -87}{dir -72}(770,20)..(860,10)..tension 1.5..
334     (890,100)..(910,200),
335     (630,760){dir -82}{dir -72}(740,100)..{right}(910,-40){curl 1}..
336     (890,60)..(890,160)),
337     (1.6,1.6)-(1.6,1.6)-(1.4,1.4)-(1.4,1.4)-(1.2,1.2)-(0.9,0.9));
338   set_botip(0,1);
339   set_boserif(0,1,4);
340   push_stroke((point 1.33 of get_stroke(0))
341     ..tension 1.2..(770,450)..(840,360),
342     (1.2,1.2)-(1.6,1.6)-(1.8,1.8));
343   set_bosize(0,90);
344   push_stroke((810,670)..tension 1.2..(770,590)..(720,480),
345     (1.6,1.6)-(1.4,1.4)-(1,1));
346   set_bosize(0,90);
347   set_boserif(0,0,10);
348   expand_pbox;
349 enddef;

```



FOUR

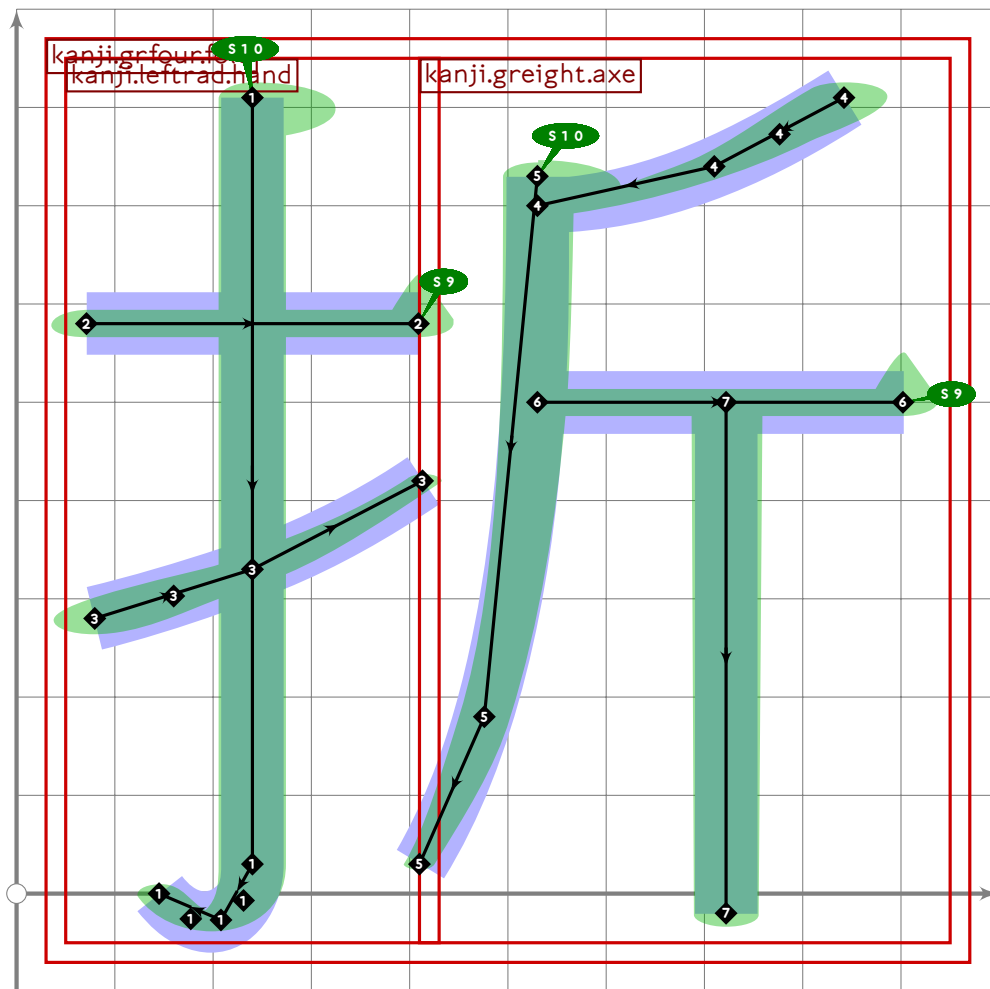
```

350
351 vardef kanji.grfour.fly =
352   push_pbox_toexpand("kanji.grfour.fly");
353   build_kanji.tb(440,50)
354     (build_kanji.sscale(xscaled 0.9)(kanji.grfour_helper.fly))
355     (kanji.grfour_helper.fly);
356   push_stroke((480,680)–(480,70),(1.6,1.6)–(1.5,1.5));
357   set_boserif(0,0,10);
358   set_bosize(0,90);
359   push_stroke((120,610)..(270,640)..tension 11..(370,680),
360     (1,1,1)–(1.6,1.6)–(2.0,2.0));
361   push_stroke((270,630){down}..(190,130)..(90,70),
362     (1.6,1.6)–(1.3,1.3)–(1,1));
363   expand_pbox;
364 enddef;

```

U+6298  
tsuku.uni6298

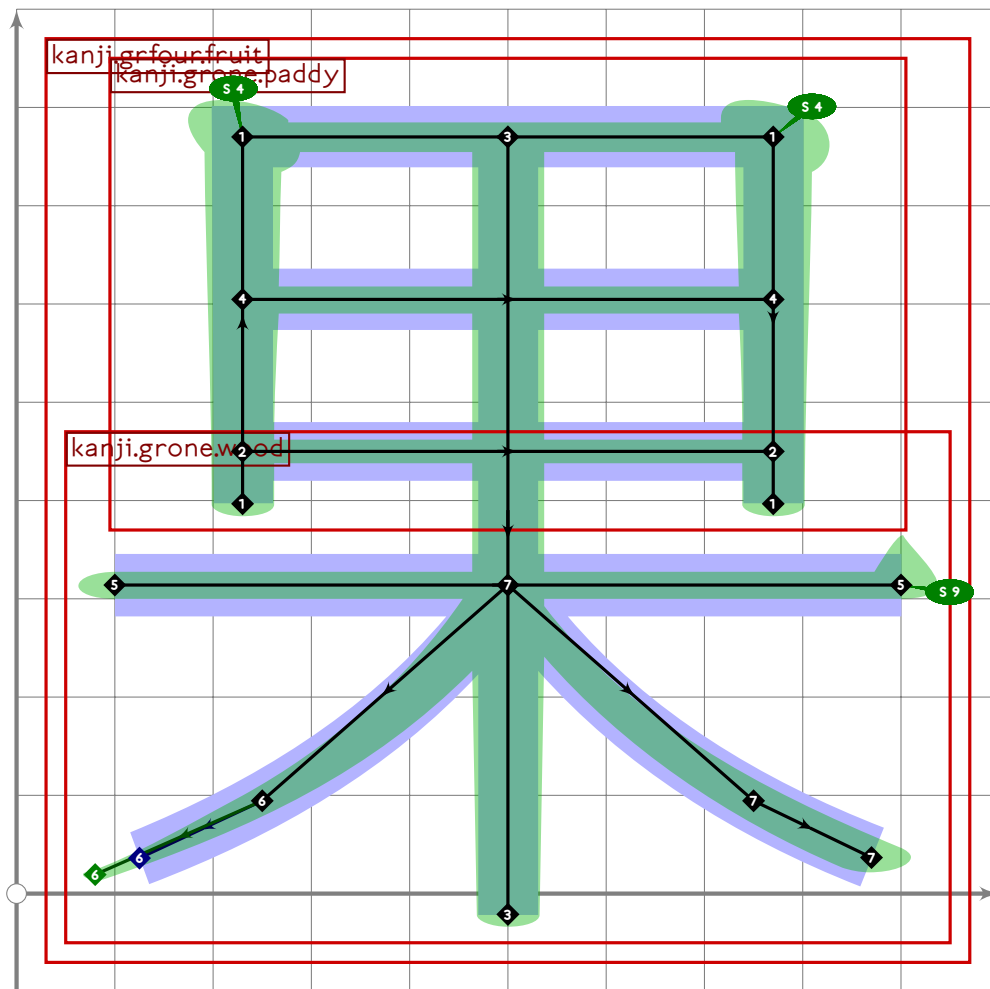
FOUR



```

365
366 vardef kanji.grfour.fold =
367   push_pbox_toexpand("kanji.grfour.fold");
368   build_kanji.level(build_kanji.lr(420,20)
369     (kanji.leftrad.hand)
370     (kanji.greight.axe));
371   expand_pbox;
372 enddef;

```



FOUR

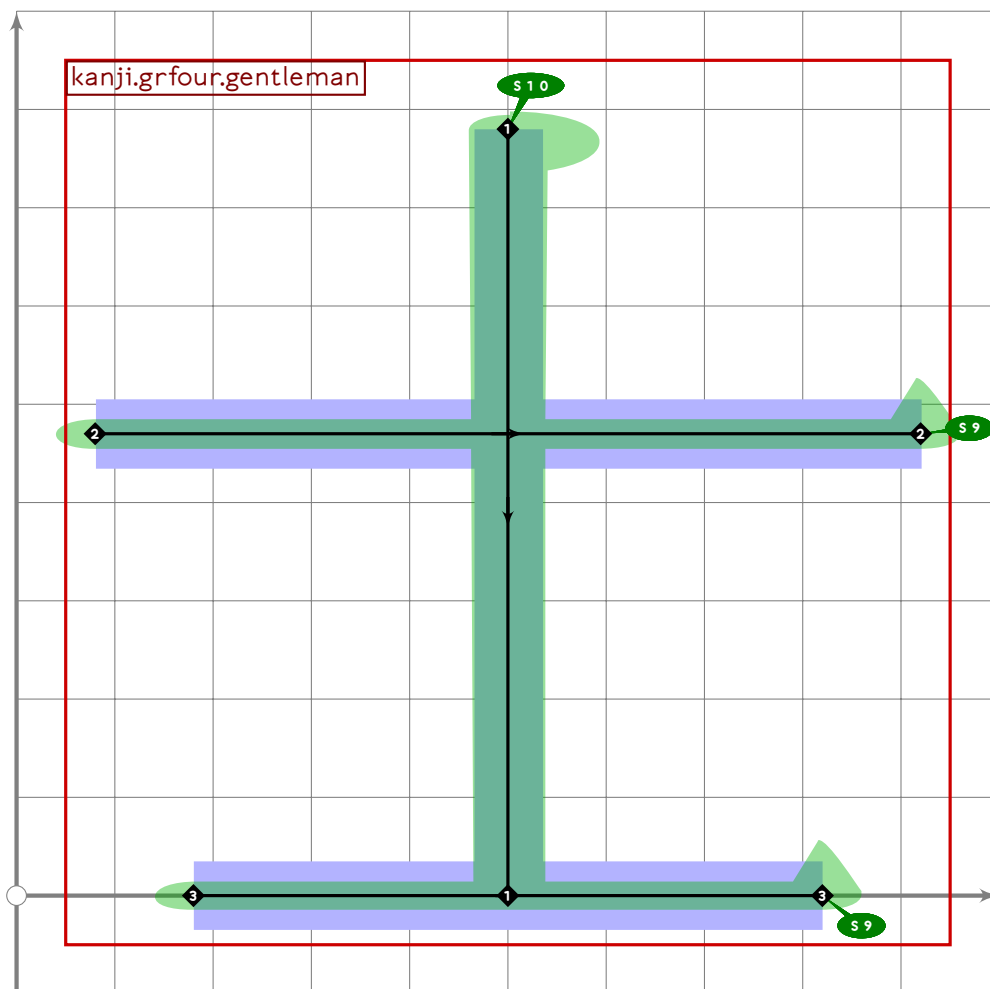
```

373
374 vardef kanji.grfour.fruit =
375   push_pbox_toexpand("kanji.grfour.fruit");
376   build_kanji.tb(420,100)
377     (build_kanji.sscale(xscaled 0.9)(kanji.grone.paddy))
378     (kanji.grone.wood);
379   replace_strokep(-5)
380     ((point 0 of oldp)-(point infinity of get_strokep(-3)));
381   obstacktype[find_whatever(otstroke,3)]:=otnull;
382   expand_pbox;
383 enddef;

```

U+58EB  
tsuku.uni58EB

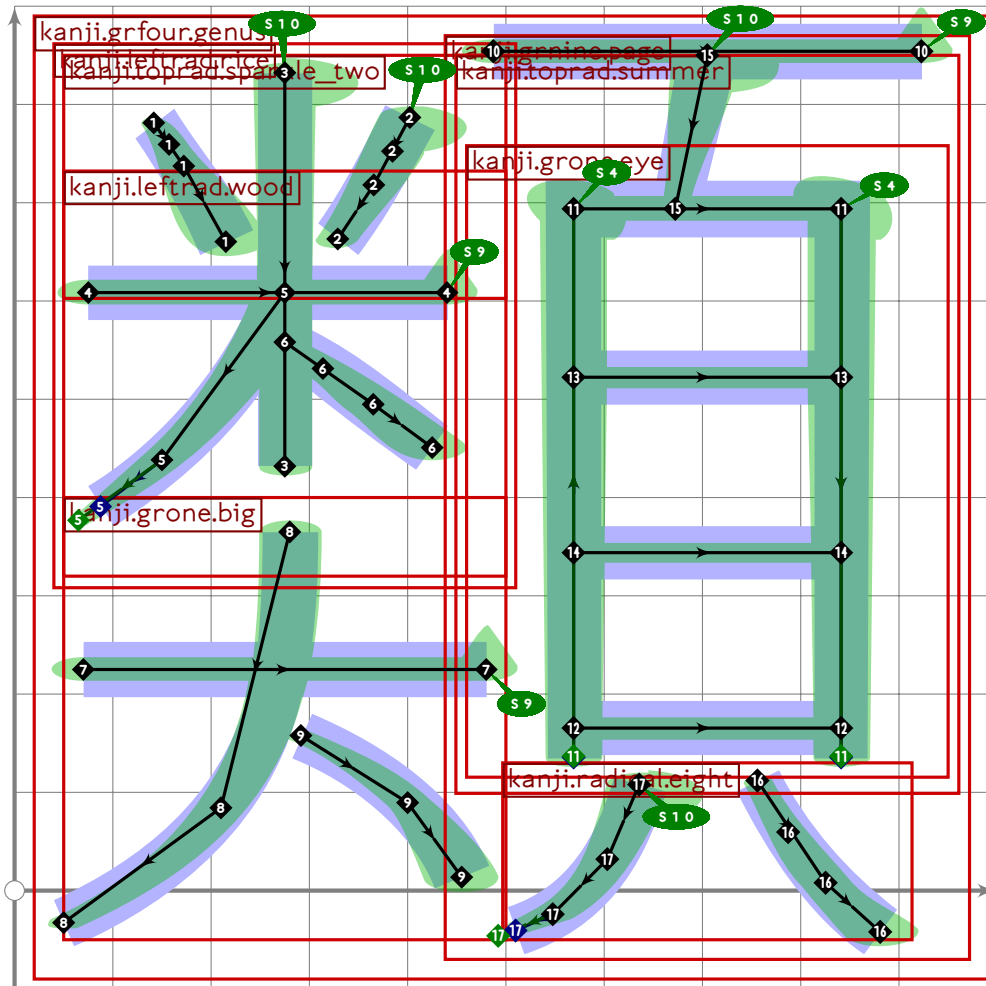
FOUR



```

384
385 vardef kanji.grfour.gentleman =
386   push_pbox_toexpand("kanji.grfour.gentleman");
387   push_stroke((500,780)–(500,0),
388     (1,6,1,6)–(1,5,1,5));
389   set_boserif(0,0,10);
390   push_stroke((80,470)–(920,470),
391     (1,6,1,6)–(1,6,1,6));
392   set_boserif(0,1,9);
393   push_stroke((180,0)–(820,0),
394     (1,6,1,6)–(1,6,1,6));
395   set_boserif(0,1,9);
396   expand_pbox;
397 enddef;

```



FOUR

```

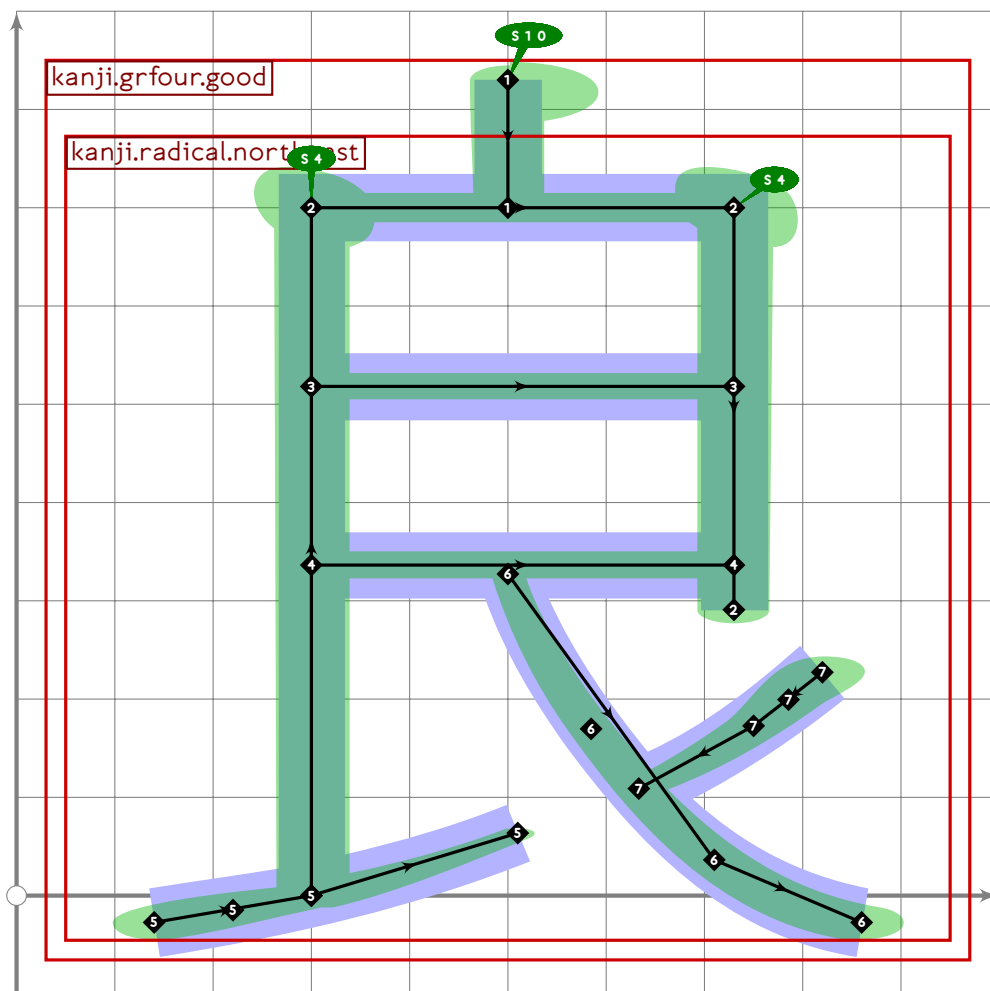
398
399 vardef kanji.grfour.genus =
400   push_pbox_toexpand("kanji.grfour.genus");
401   build_kanji.level(build_kanji.lr(480,40)
402     (build_kanji.lift_skirt(200,40)(build_kanji.tb(360,80)
403       (kanji.leftrad.rice;
404         replace_stroke(-3)(subpath (0,0.8) of oldp))
405       (kanji.leftrad.big)))
406     (kanji.grnine.page));
407   expand_pbox;
408 enddef;

```



U+826F  
tsuku.uni826F

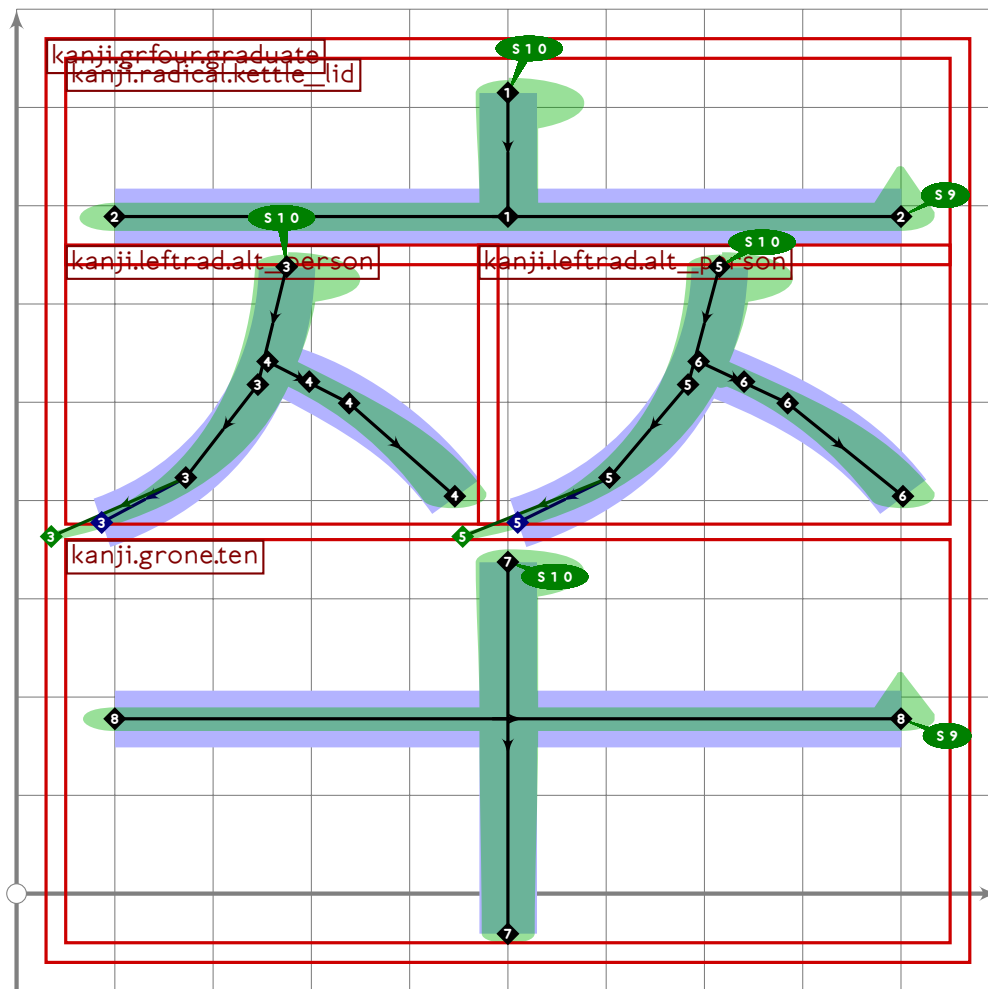
FOUR



```

409
410 vardef kanji.grfour.good =
411   push_pbox_toexpand("kanji.grfour.good");
412   build_kanji.level(
413     push_stroke((500,830)-(500,700),(1.6,1.6)-(1.5,1.5));
414     set_boserif(0,0,10);
415     tsu_xform(identity yscaled (700/770))(kanji.radical.northeast));
416   expand_pbox;
417 enddef;

```



FOUR

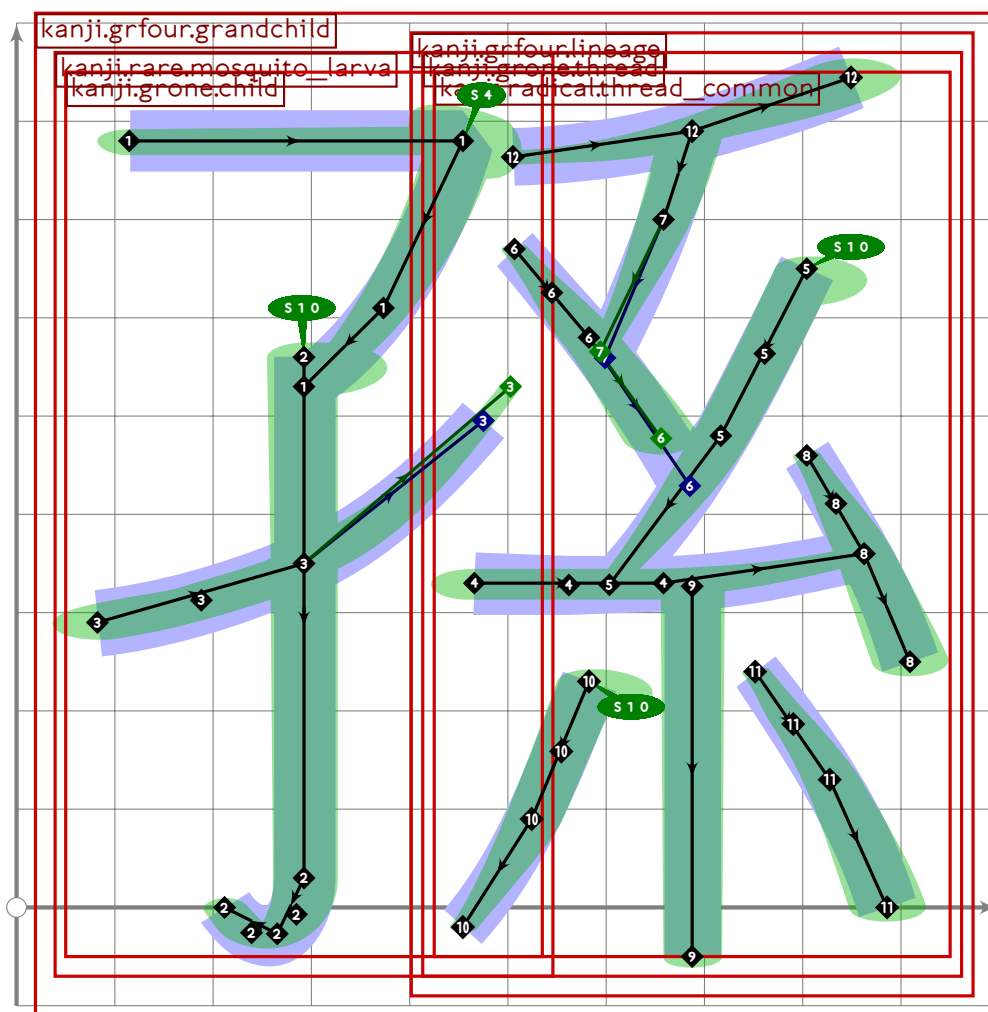
```

418
419 vardef kanji.grfour.graduate =
420   push_pbox_toexpand("kanji.grfour.graduate");
421   build_kanji.level(build_kanji.tb(650,20)
422     (kanji.radical.kettle_lid)
423     (build_kanji.tb(480,20)
424       (build_kanji.lr(480,20)
425         (kanji.leftrad.alt_person)
426         (kanji.leftrad.alt_person))
427       (kanji.grone.ten;
428         replace_strokep(0)(oldp shifted (0,50)))));
429   expand_pbox;
430 enddef;

```

U+5B6B  
tsuku.uni5B6B

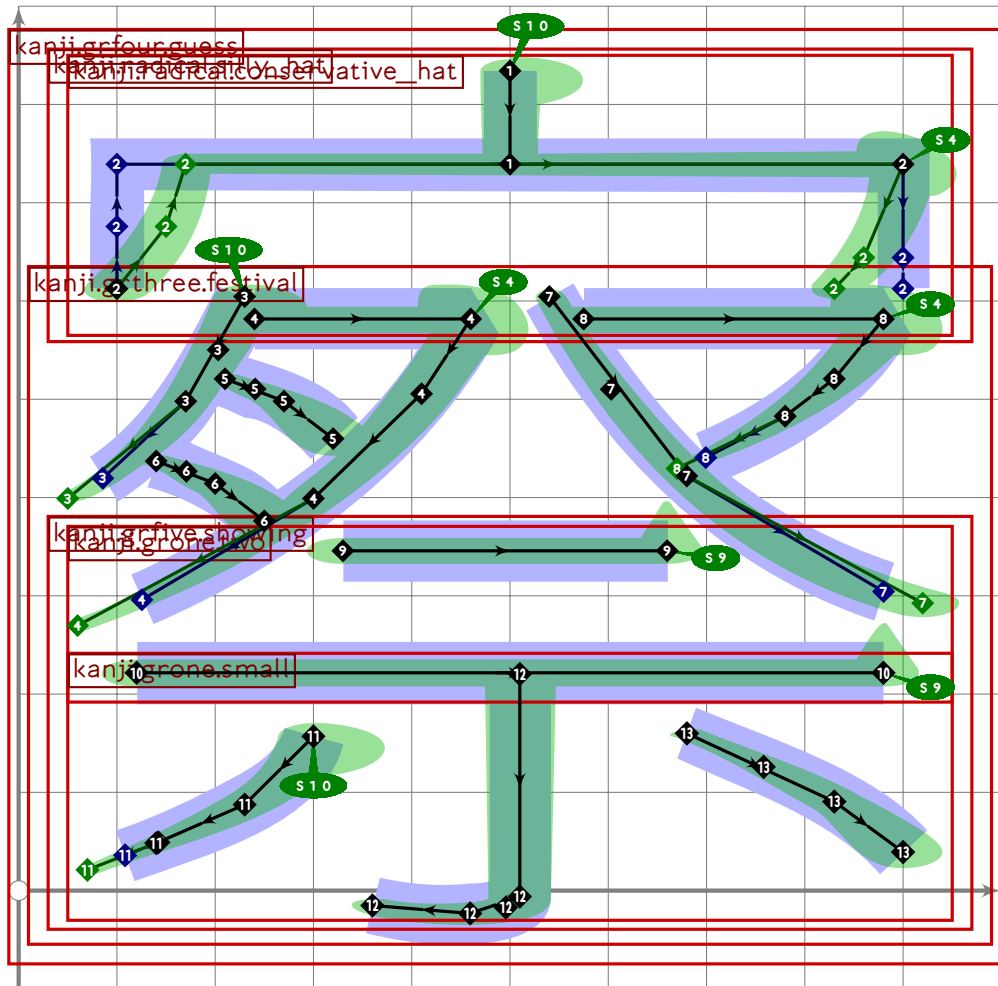
FOUR



```

431
432 vardef kanji.grfour.grandchild =
433   push_pbox_toexpand("kanji.grfour.grandchild");
434   build_kanji.lr(480,110)
435     (kanji.rare.mosquito_larva)
436     (kanji.grfour.lineage);
437   expand_pbox;
438 enddef;

```



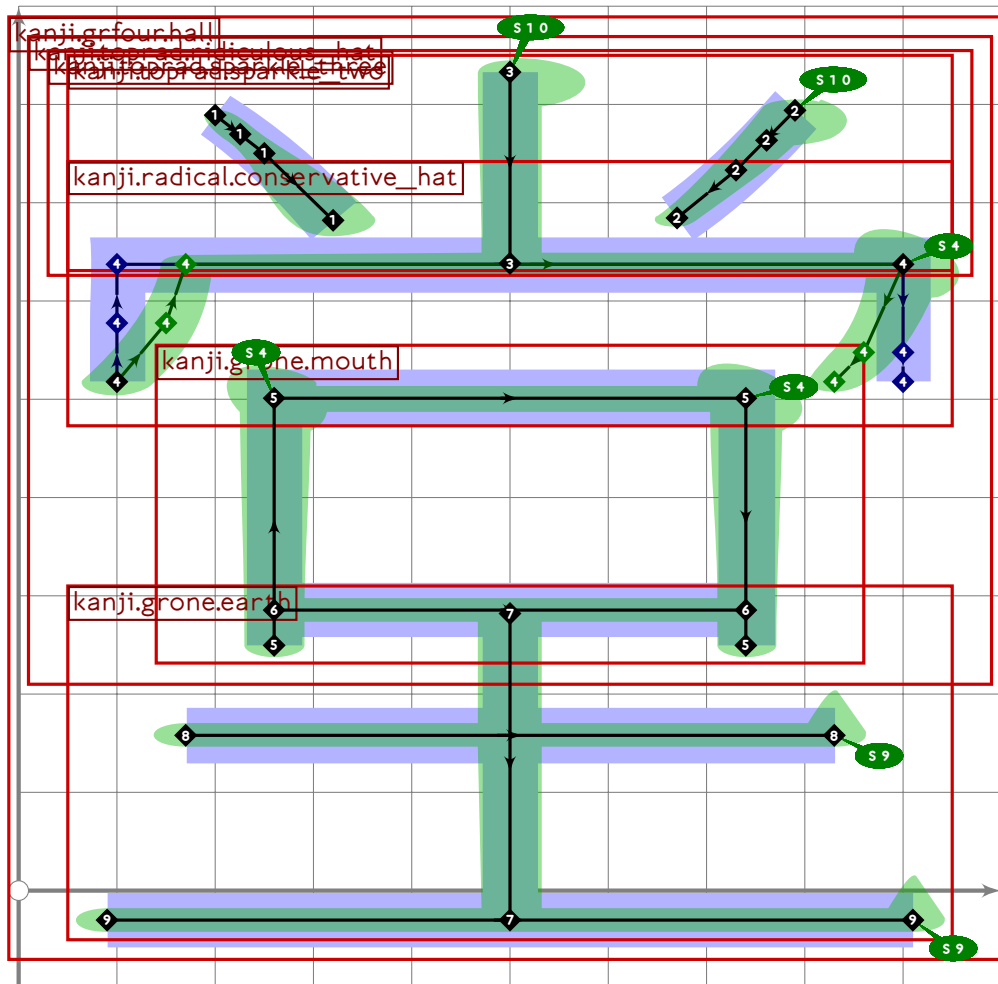
FOUR

```

439
440 vardef kanji.grfour.guess =
441   push_pbox_toexpand("kanji.grfour.guess");
442   build_kanji.tb(600,70)
443     (kanji.radical.silly_hat)
444     (kanji.grthree.festival);
445   expand_pbox;
446 enddef;

```

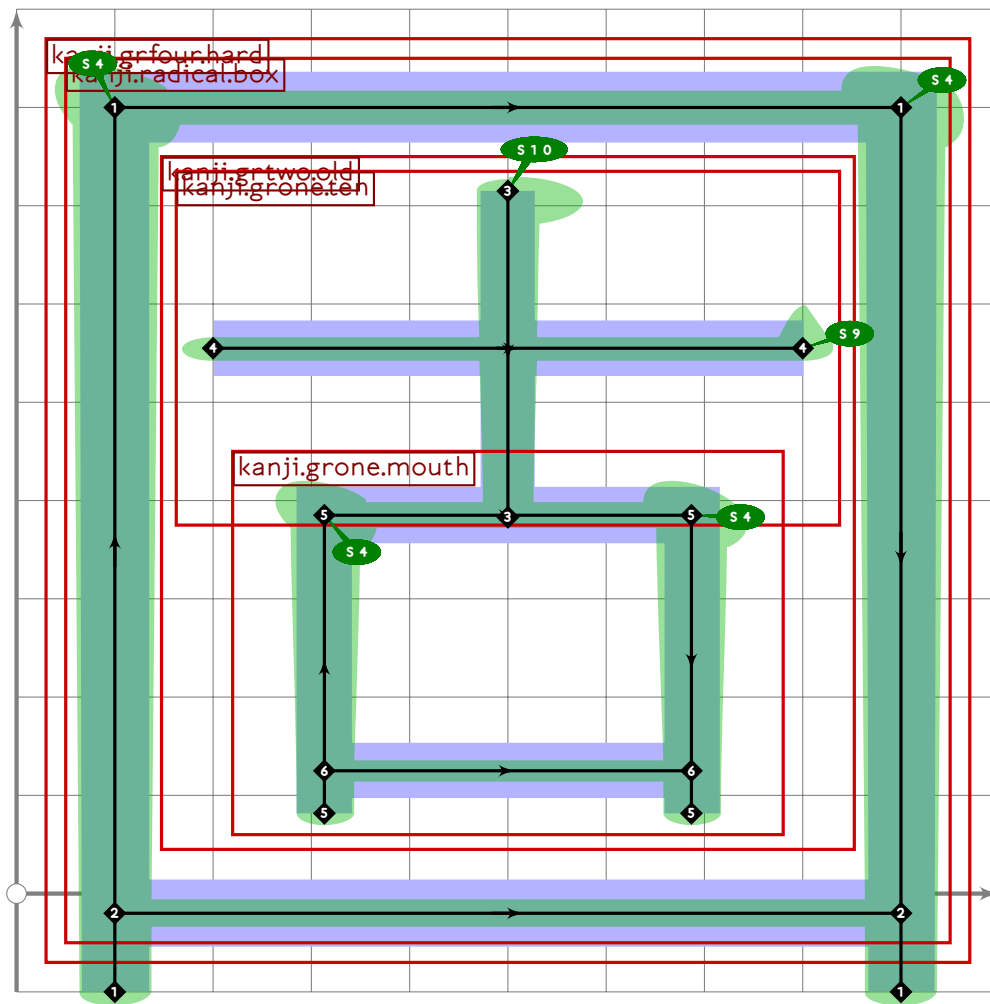
# FOUR



```

447
448 vardef kanji.grfour.hall =
449   push_pbox_toexpand("kanji.grfour.hall");
450   build_kanji.level(build_kanji.tb(260,100)
451     (kanji.toprad.ridiculous_hat)
452     (kanji.grone.earth;
453       set_boserif(-2,0,whatever)));
454   expand_pbox;
455 enddef;

```



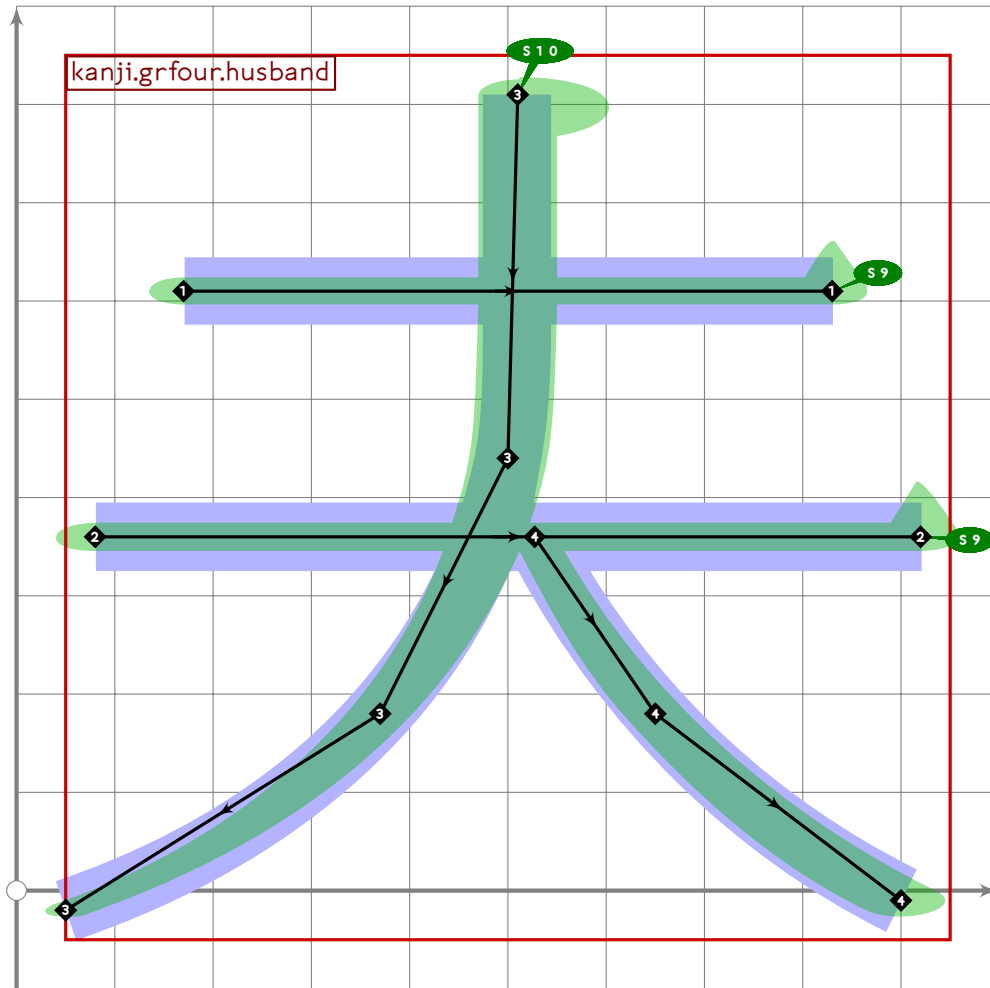
FOUR

```

456
457 vardef kanji.grfour.hard =
458   push_pbox_toexpand("kanji.grfour.hard");
459   kanji.radical.box;
460   build_kanji.sscale(scaled 0.75)(kanji.grtwo.old);
461   expand_pbox;
462 enddef;

```





FOUR

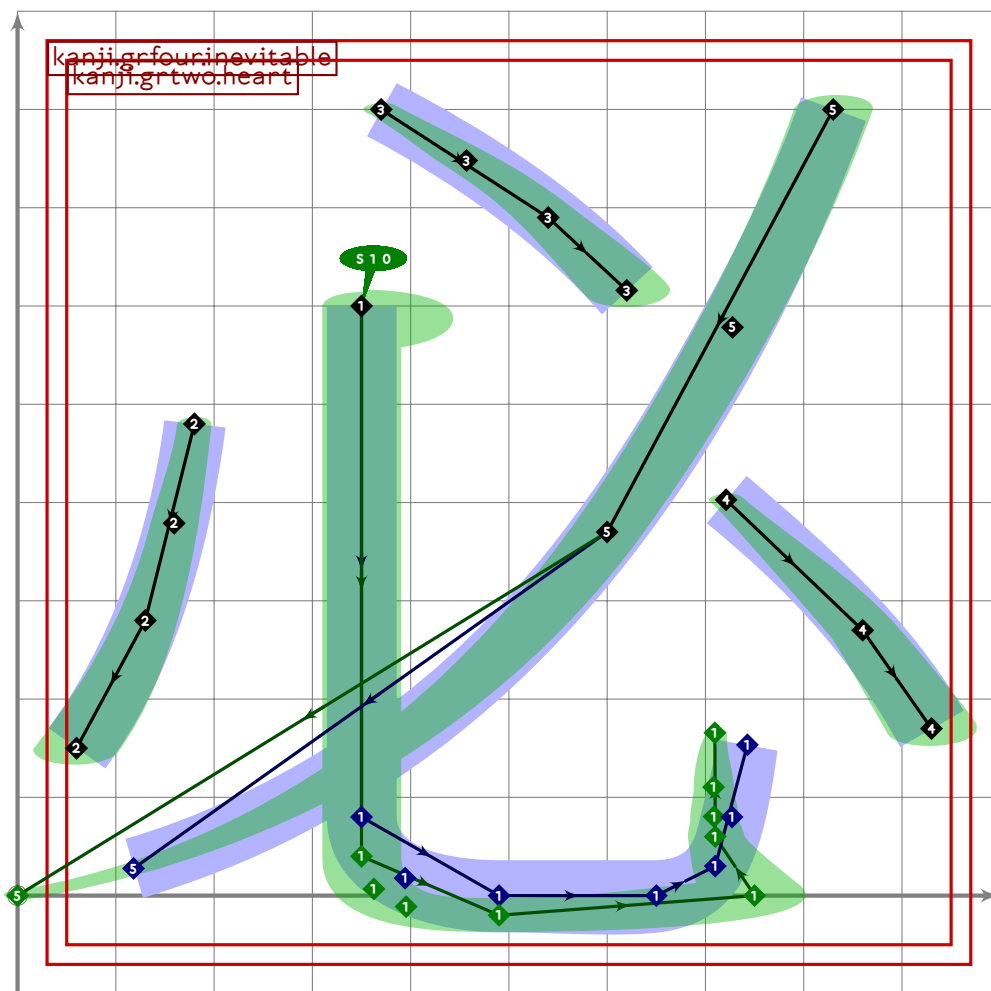
```

474
475 vardef kanji.grfour.husband =
476   push_pbox_toexpand("kanji.grfour.husband");
477   push_stroke((170,610)–(830,610),
478     (1.5,1.5)–(1.5,1.5));
479   set_boserif(0,1,9);
480   push_stroke((80,360)–(920,360),
481     (1.6,1.6)–(1.6,1.6));
482   set_boserif(0,1,9);
483   push_stroke((510,810){down}..(500,440)..(370,180)..{curl 0.5}(50,20),
484     (1.6,1.6)–(1.6,1.6)–(1.4,1.4)–(1.1,1.1));
485   set_boserif(0,0,10);
486   push_stroke(((get_strokep(-1) intersectionpoint get_strokep(0))+(50,0))..
487     (650,180)..(900,-10),
488     (1.1,1.1)–(1.4,1.4)–(1.7,1.7));
489   expand_pbox;
490 enddef;

```



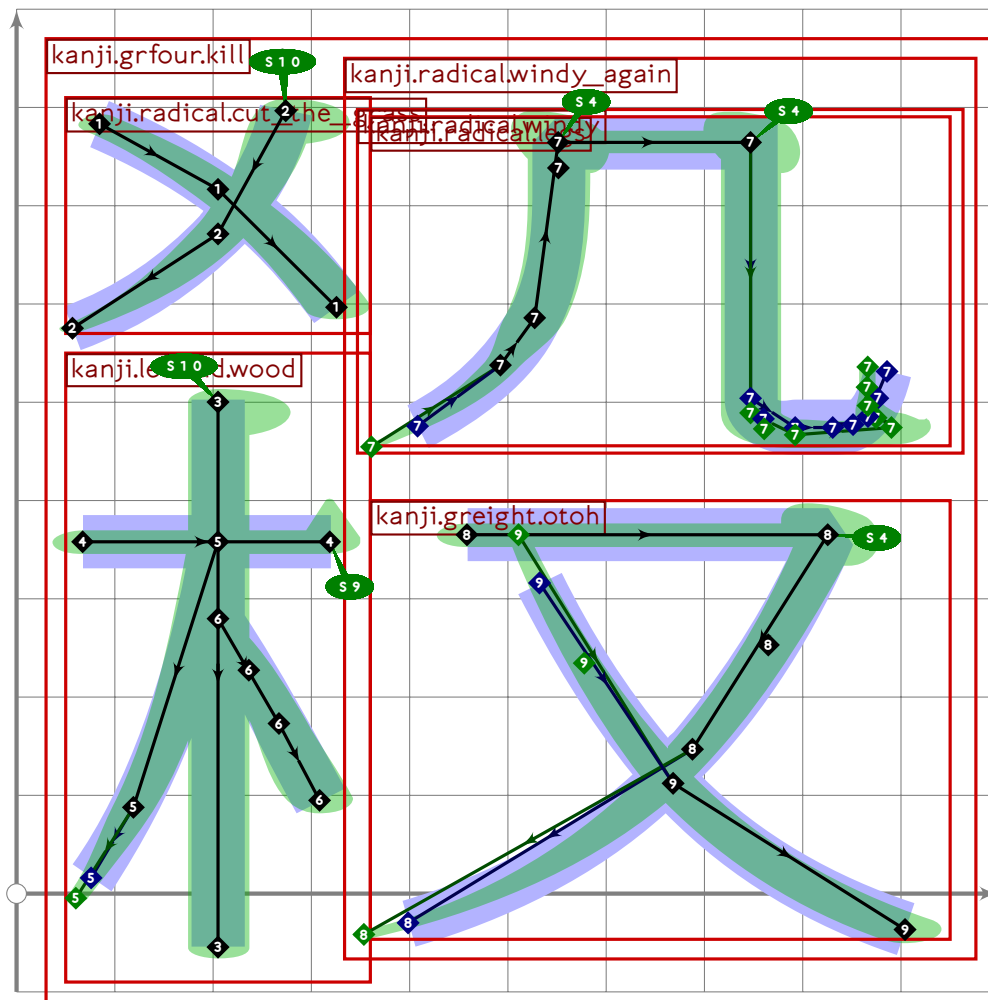
FOUR



```

491
492 vardef kanji.grfour.inevitable =
493   push_pbox_toexpand("kanji.grfour.inevitable");
494   kanji.grtwo.heart;
495   replace_stroke(-1)(subpath (0,1,7) of oldp);
496   replace_stroke(0)(subpath (0,3,2) of oldp);
497   push_stroke((830,800)..tension 1.2..(600,370)..(0,0),
498     (1.6,1.6)–(1.5,1.5)–(0.9,0.9));
499   expand_pbox;
500 enddef;

```



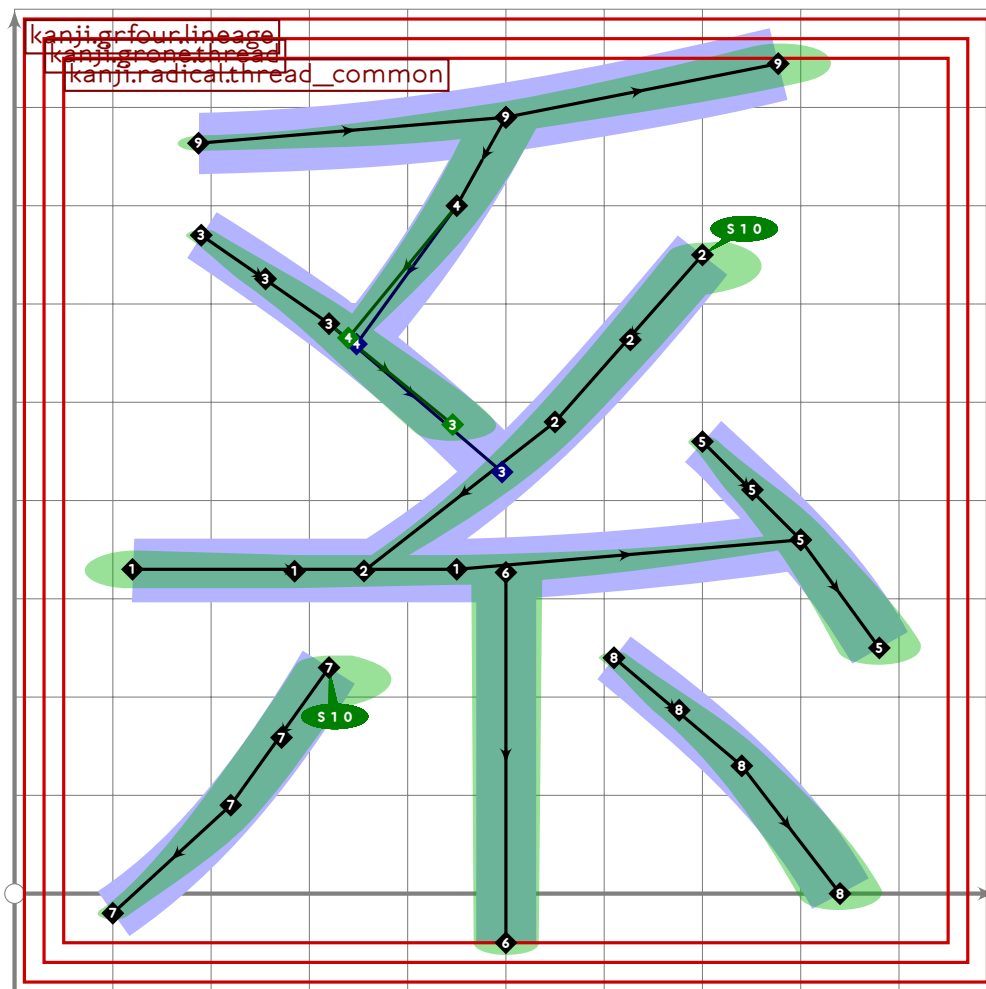
FOUR

```

501
502 vardef kanji.grfour.kill =
503   push_pbox_toexpand("kanji.grfour.kill");
504   build_kanji.level(build_kanji.lr(360,0)
505     (build_kanji.sscale(shifted (0,-40))(build_kanji.tb(600,-20)
506       (kanji.radical.cut_the_grass)
507       (kanji.leftrad.wood)))
508     (kanji.radical.windy_again));
509   expand_pbox;
510 enddef;

```

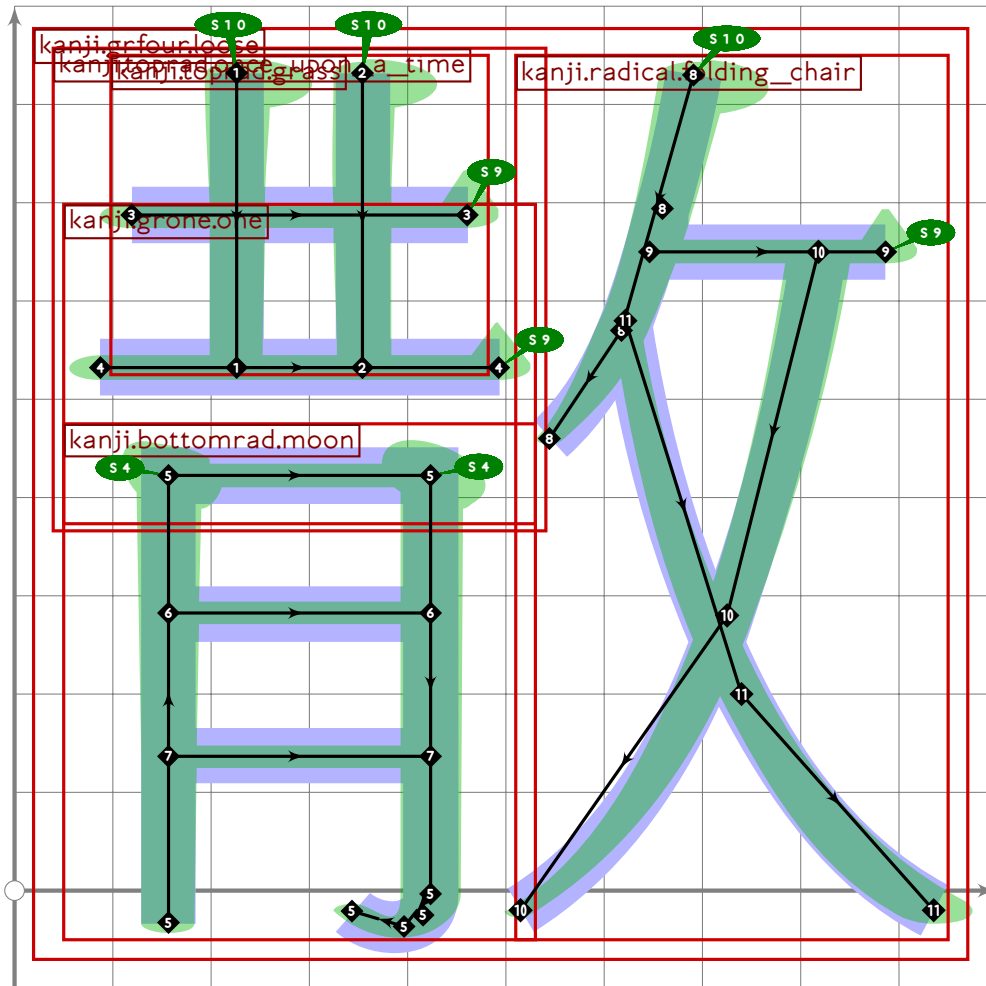
FOUR



```

511
512 vardef kanji.grfour.lineage =
513   push_pbox_toexpand("kanji.grfour.lineage");
514   build_kanji.add_beret(kanji.grone.thread);
515   expand_pbox;
516 enddef;

```



FOUR

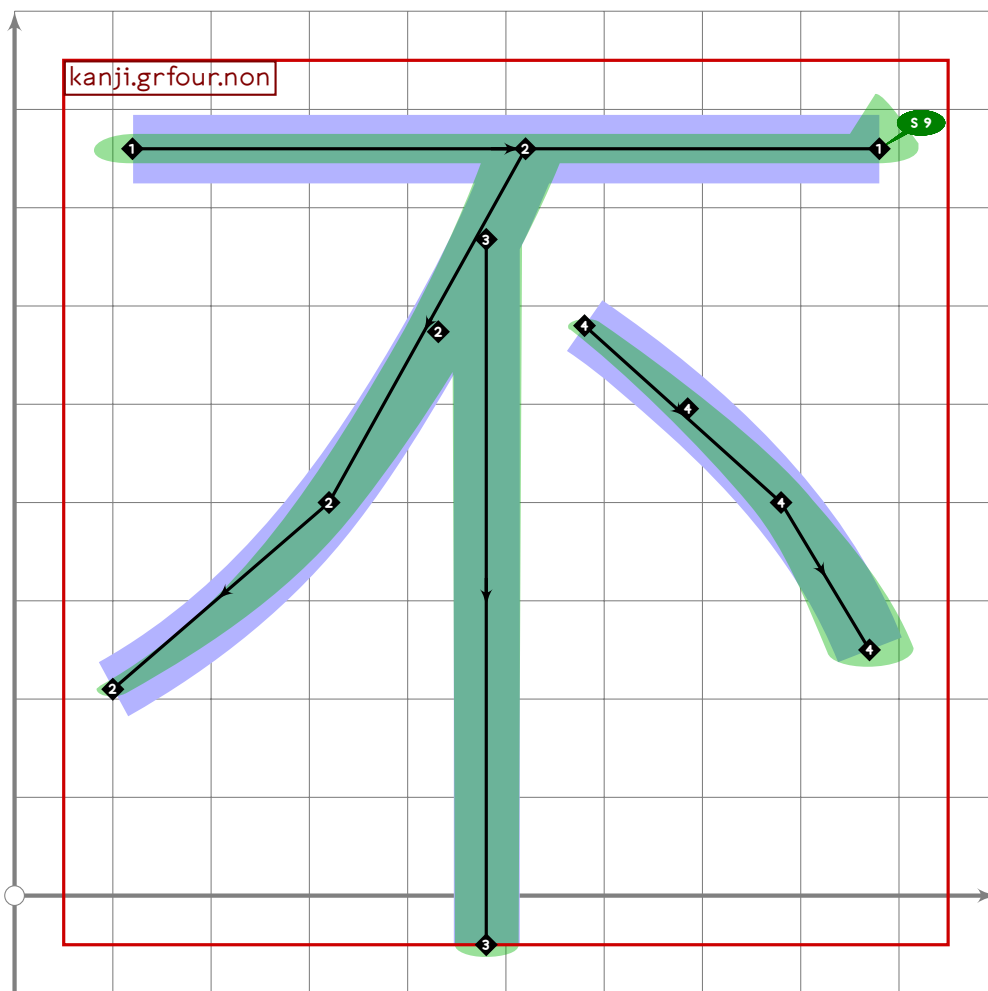
```

517
518 vardef kanji.grfour.loose =
519   push_pbox_toexpand("kanji.grfour.loose");
520   build_kanji.level(build_kanji.lr(520,20)
521     (build_kanji.tb(500,-50)
522       (kanji.toprad.once_upon_a_time)
523       (kanji.bottomrad.moon))
524     (kanji.radical.folding_chair));
525   expand_pbox;
526 enddef;

```

U+4E0D  
tsuku.uni4E0D

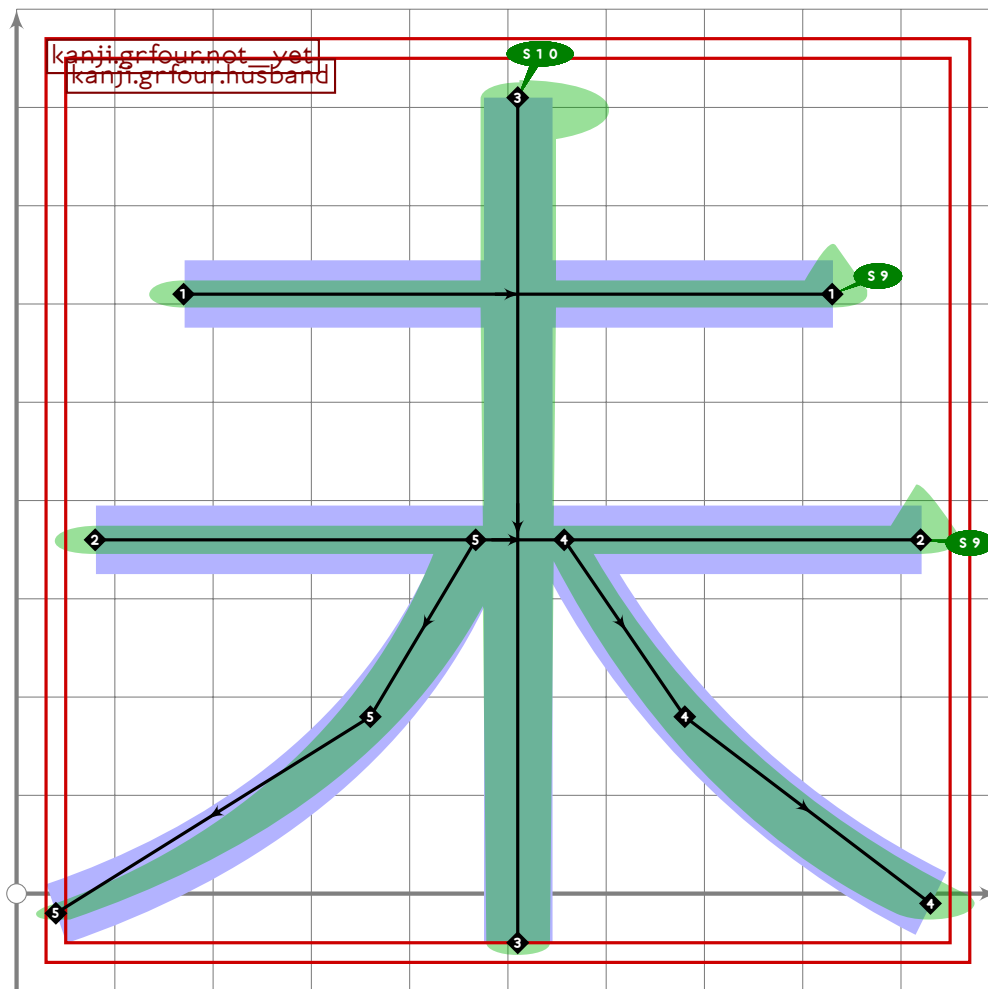
FOUR



```

527
528 vardef kanji.grfour.non =
529   push_pbox_toexpand("kanji.grfour.non");
530   push_stroke((120,760)–(880,760),(1.6,1.6)–(1.6,1.6));
531   set_boserif(0,1,9);
532   push_stroke((520,760)..tension 1.2..(320,400)..(100,210),
533     (1.6,1.6)–(14,14)–(1,1));
534   push_stroke((((480,1000)–(480,0)) intersectionpoint get_stroke(0))–
535     (480,50),
536     (1.5,1.5)–(14,14));
537   push_stroke((580,580)..tension 1.2..(780,400)..(870,250),
538     (1,1)–(14,14)–(17,17));
539   expand_pbox;
540 enddef;

```



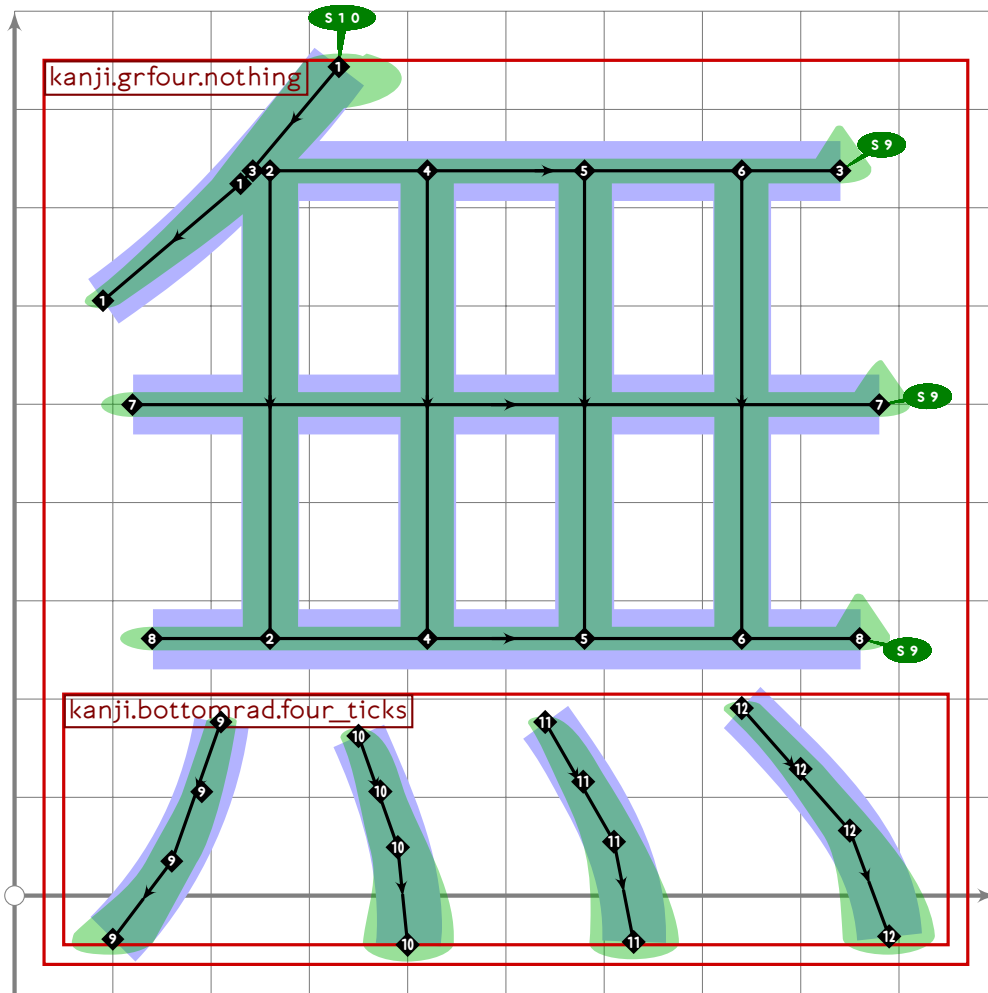
FOUR

```

541
542 vardef kanji.grfour.not_yet =
543   push_pbox_toexpand("kanji.grfour.not_yet");
544   kanji.grfour.husband;
545   begingroup
546     save it;
547     numeric it;
548     it:=xpart (get_stroke(-1) intersectiontimes get_stroke(-2));
549     push_stroke(subpath (it,infinity) of get_stroke(-1) shifted (-10,0),
550       subpath(it,infinity) of get_stroke(-1));
551   endgroup;
552   replace_stroke(-2)((510,810)-(510,50));
553   replace_stroke(-2)((1.6,1.6)-(1.4,1.4));
554   replace_stroke(-1)(oldp shifted (30,0));
555   expand_pbox;
556 enddef;

```

# FOUR



```

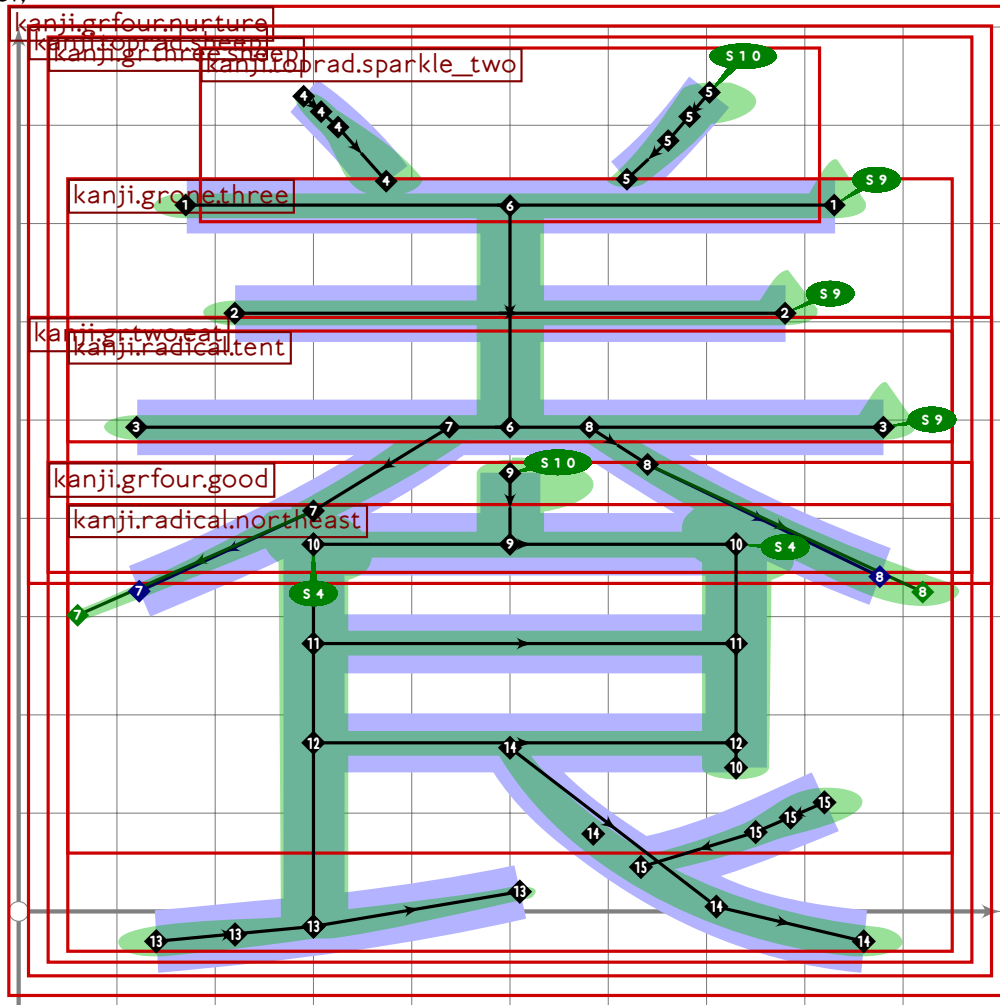
557
558 vardef kanji.grfour.nothing =
559   push_pbox_toexpand("kanji.grfour.nothing");
560   build_kanji.level(build_kanji.tb(230,-50)
561     (push_stroke((330,840){curl 0.1}..(230,660)..(90,480),
562       (1.7,1.7)–(1.5,1.5)–(1.1,1.1));
563     set_boserif(0,0,10);
564     push_stroke((260,680)–(260,-40),
565       (1.39,1.39)–(1.3,1.3));
566     push_stroke(
567       (((0,680)–(1000,680)) intersectionpoint get_stroke(-1))–(840,680),
568       (1.5,1.5)–(1.5,1.5));
569     set_boserif(0,1,9);
570     push_stroke((420,680)–(420,-40),
571       (1.4,1.4)–(1.3,1.3));
572     push_stroke((580,680)–(580,-40),
573       (1.4,1.4)–(1.3,1.3));
574     push_stroke((740,680)–(740,-40),
575       (1.4,1.4)–(1.3,1.3));
576     push_stroke((120,320)–(880,320),
577       (1.5,1.5)–(1.5,1.5));

```

```

578   set_boserif(0,1,9);
579   push_stroke((140,40)-(860,40),
580             (1.5,1.5)-(1.5,1.5));
581   set_boserif(0,1,9))
582   (kanji.bottomrad.four_ticks));
583   expand_pbox;
584 enddef;

```



FOUR

```

585
586 vardef kanji.grfour.nurture =
587   push_pbox_toexpand("kanji.grfour.nurture");
588   build_kanji.tb(460,230)
589     (kanji.toprad.sheep)
590     (kanji.grtwo.eat);
591   replace_strokeq(-8)(subpath (xpart (get_strokeq(-8) intersectiontimes
592     get_strokeq(-12)),infinity) of oldq);
593   replace_strokeq(-8)(subpath (xpart (oldp intersectiontimes
594     get_strokeq(-12)),infinity) of oldp);
595   set_boserif(-8,0,whatever);
596   replace_strokeq(-7)(subpath (xpart (get_strokeq(-7) intersectiontimes
597     get_strokeq(-12)),infinity) of oldq);

```

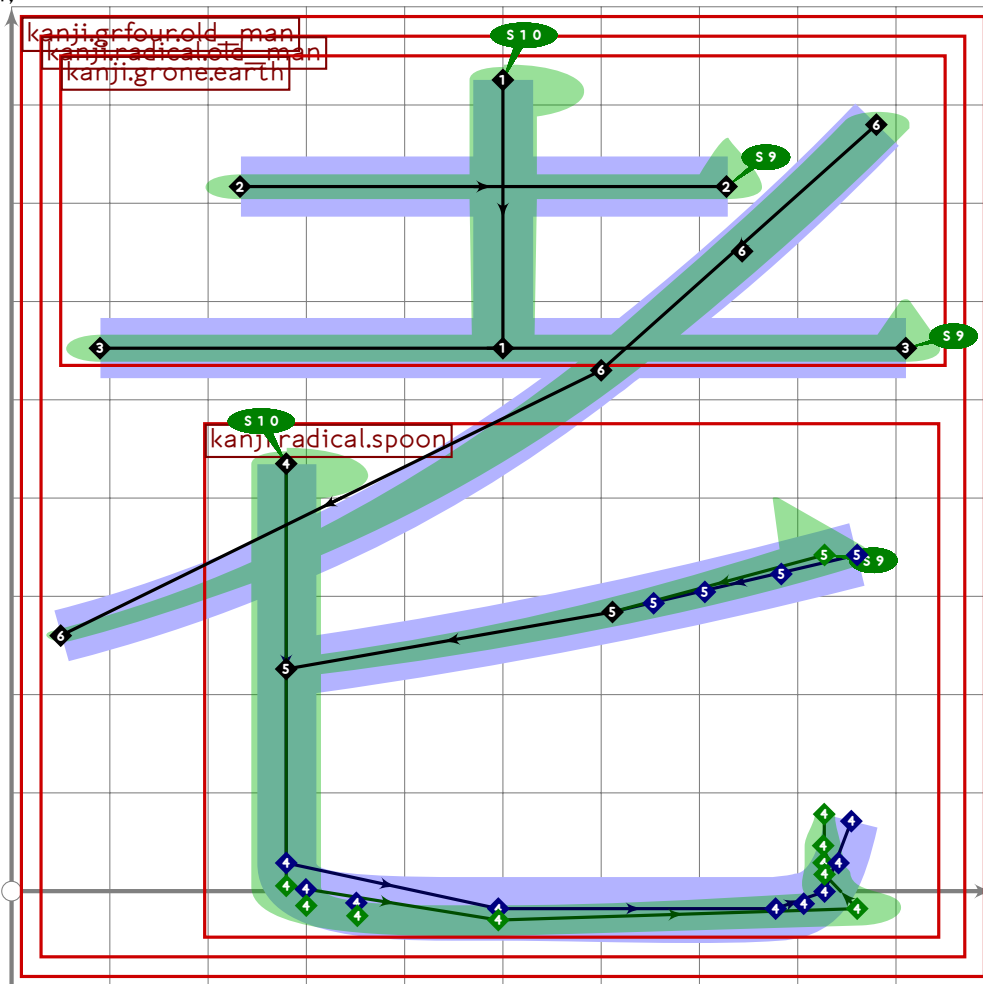


U+8001  
tsuku.uni8001

```

598 replace_strokep(-7)(subpath (xpart (oldp intersectiontimes
599   get_strokep(-12)),infinity) of oldp);
600 expand_pbox;
601 enddef;

```

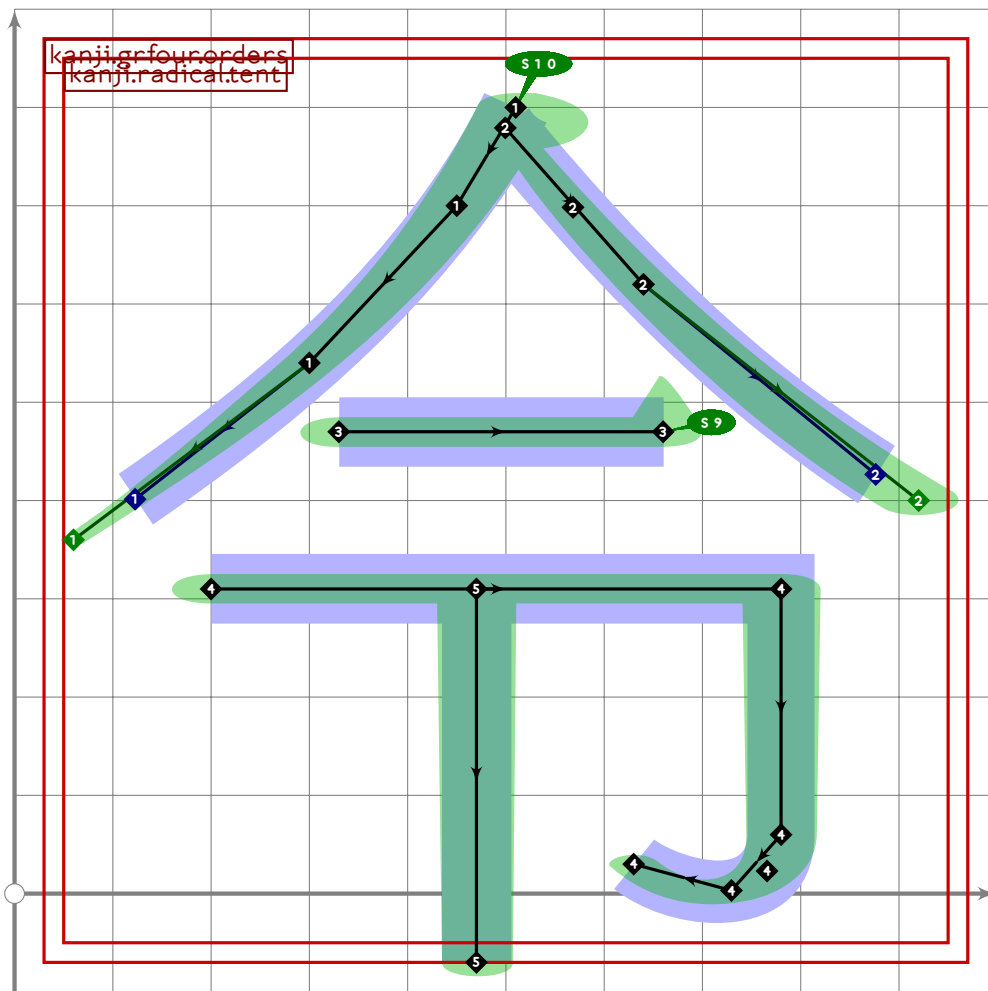


FOUR

```

602
603 vardef kanji.grfour.old_man =
604   push_pbox_toexpand("kanji.grfour.old_man");
605   kanji.radical.old_man(
606     build_kanji.sscale(xyscaled (0.83,1.1) shifted (70,50))
607     (kanji.radical.spoon));
608   expand_pbox;
609 enddef;

```

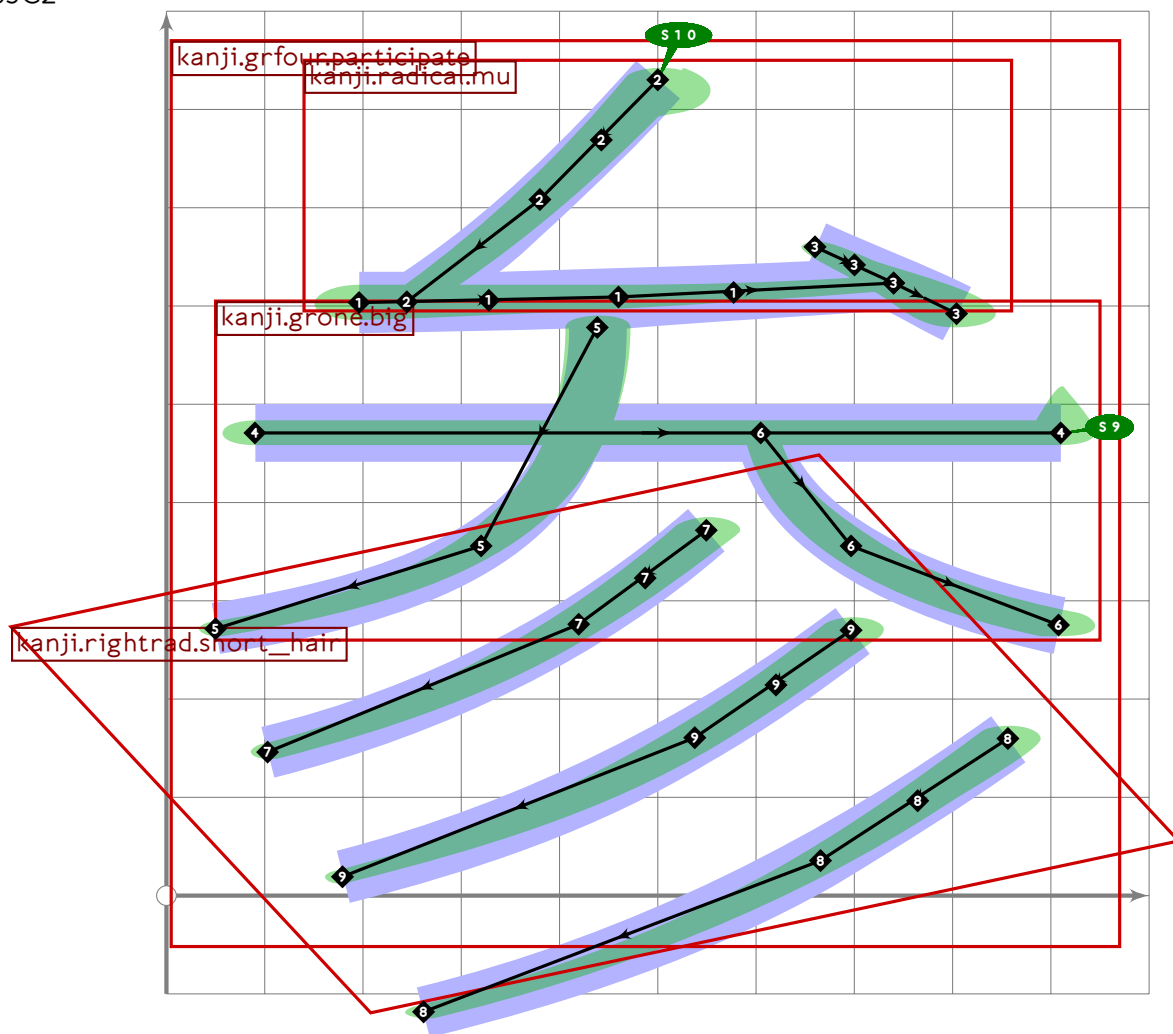


FOUR

```

610
611 vardef kanji.grfour.orders =
612   push_pbox_toexpand("kanji.grfour.orders");
613   kanji.radical.tent;
614   push_stroke((200,280)-(780,280),(1.6,1.6)-(1.6,1.6));
615   build_kanji.add_jtail(0);
616   set_botip(0,1,1);
617   replace_strokep(0)(oldp shifted (0,30));
618   push_stroke((470,310)-(470,-70),(1.6,1.6)-(1.5,1.5));
619   expand_pbox;
620 enddef;

```

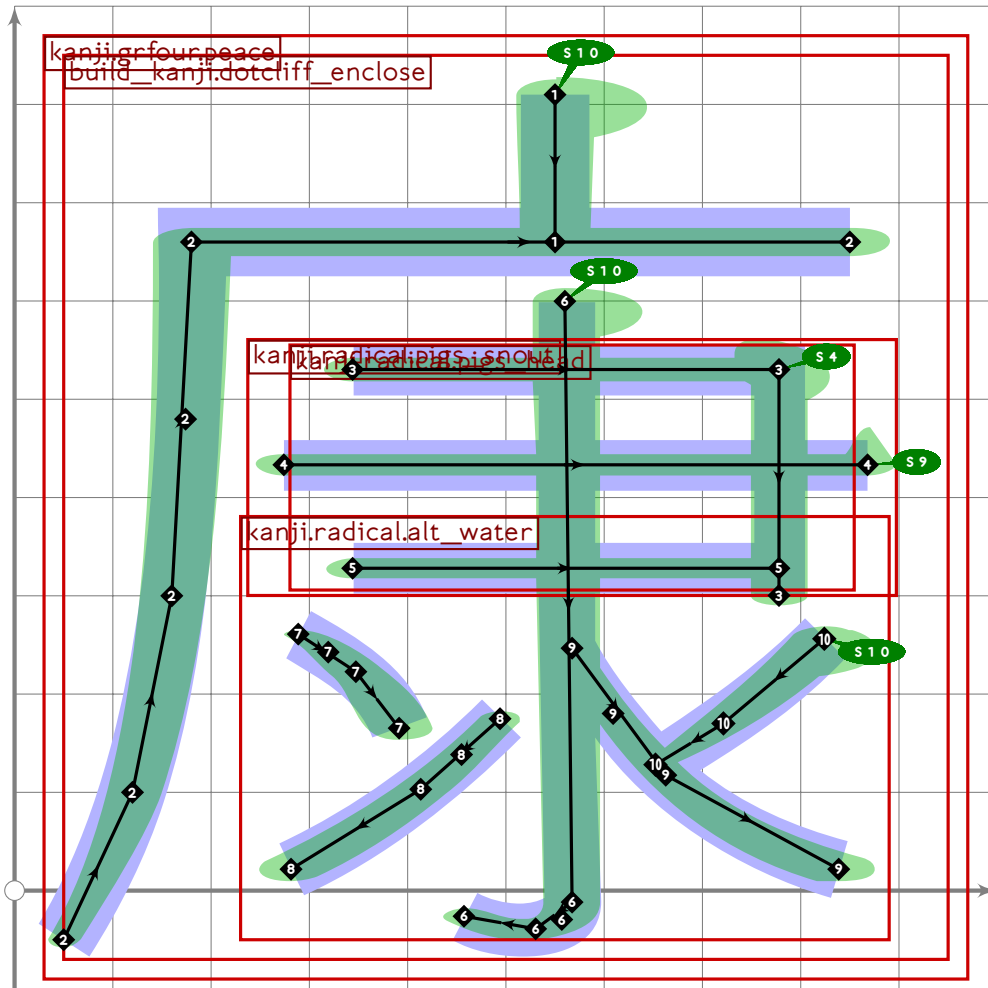


FOUR

```

621
622 vardef kanji.grfour.participate =
623   push_pbox_toexpand("kanji.grfour.participate");
624   build_kanji.level(build_kanji.tcb(600,10)(320,120)
625     (build_kanji.sscale(xscaled 0.8)(kanji.radical.mu))
626     (build_kanji.spread_legs(140)(kanji.grone.big))
627     (build_kanji.sscale(rotated 24 shifted (-60,0))
628       (kanji.rightrad.short_hair)));
629   expand_pbox;
630 enddef;

```



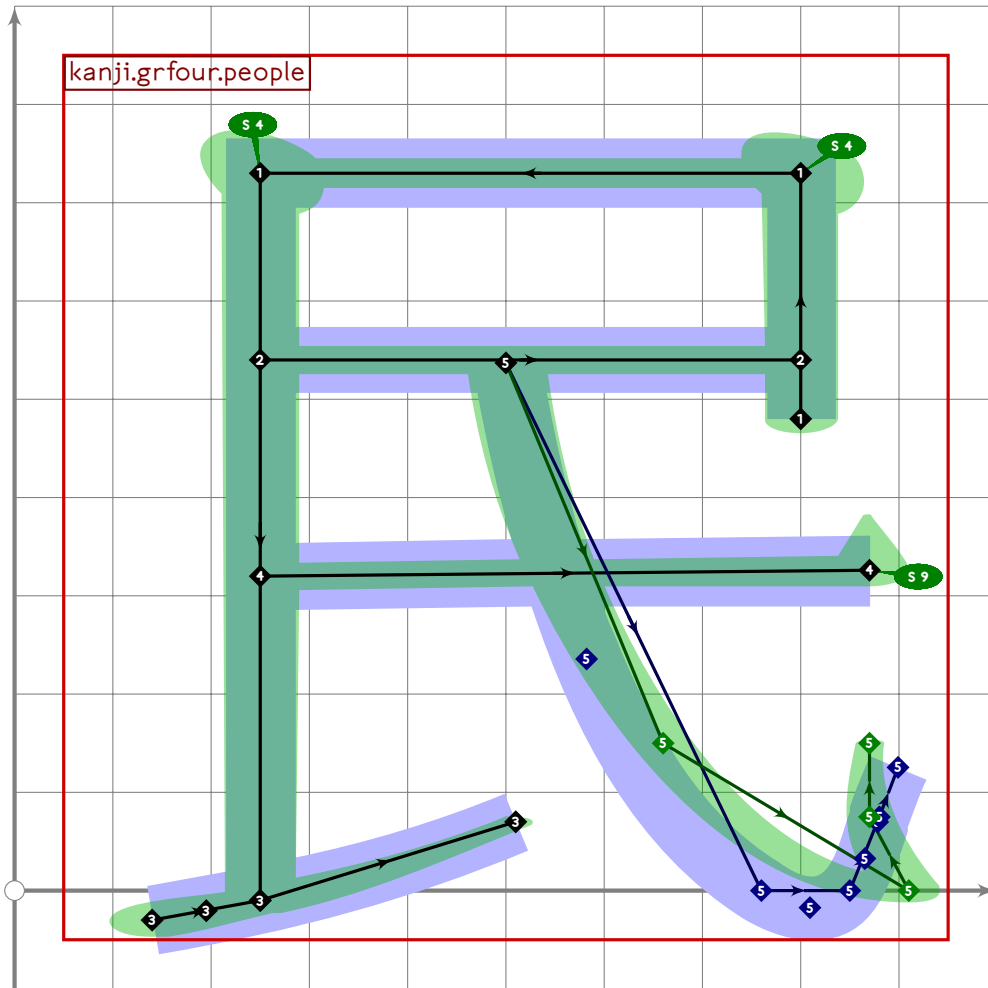
FOUR

```

631
632 vardef kanji.grfour.peace =
633   push_pbox_toexpand("kanji.grfour.peace");
634   build_kanji.dotcliff_enclose(build_kanji.tb(520,0)
635     (tsu_xform(identity shifted (10,-270))
636       (kanji.radical.pigs_snout))
637     (kanji.radical.alt_water);
638   replace_stroke(-4)((500,810)-subpath (1,infinity) of oldp));
639   expand_pbox;
640 enddef;

```

FOUR

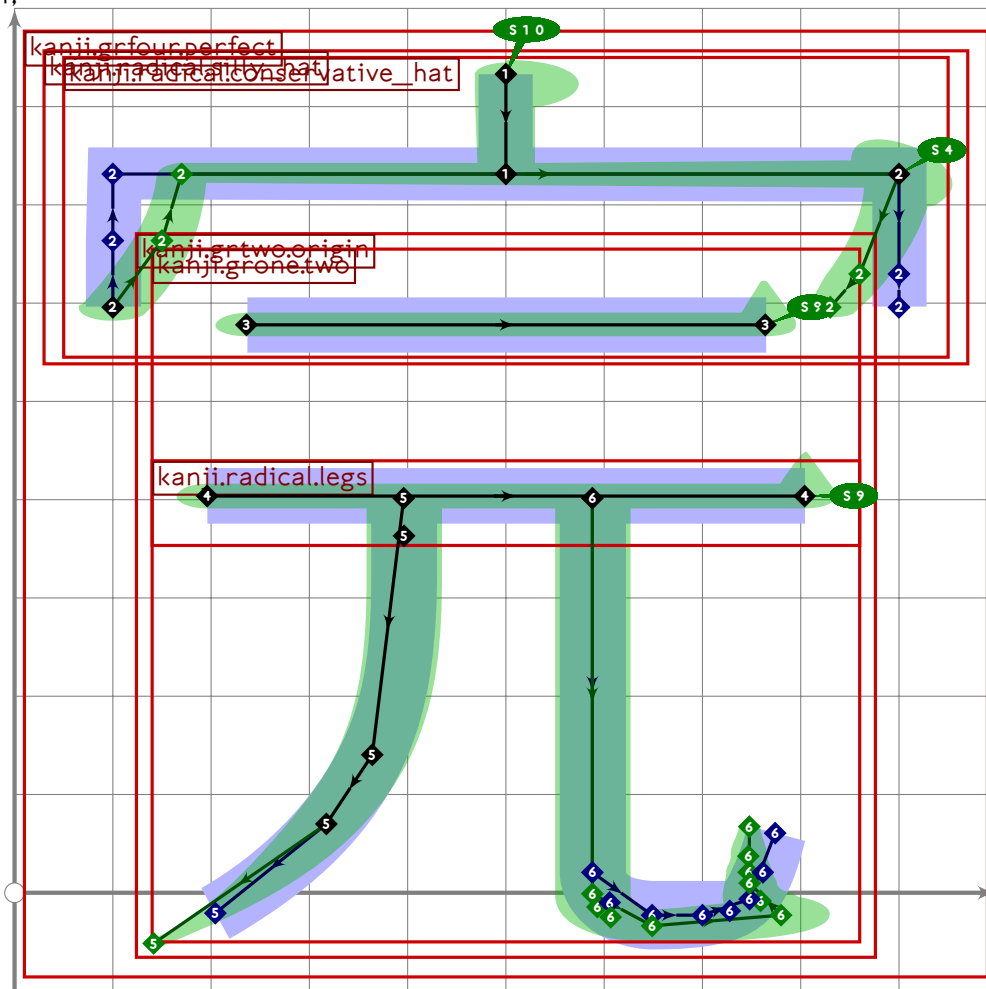


```

641
642 vardef kanji.grfour.people =
643   push_pbox_toexpand("kanji.grfour.people");
644   push_stroke((800,480)–(800,730)–(250,730)–(250,10),
645     (1.5,1.5)–(1.6,1.6)–(1.6,1.6)–(1.5,1.5));
646   set_botip(0,1,1);
647   set_botip(0,2,1);
648   set_boserif(0,1,4);
649   set_boserif(0,2,4);
650   push_stroke((250,540)–(800,540),
651     (1.5,1.5)–(1.5,1.5));
652   push_stroke((140,30)..tension 1.2..(250,10)..(510,70),
653     (1.7,1.7)–(1.5,1.5)–(1,1));
654   push_stroke((250,320)–(870,326),(1.5,1.5)–(1.6,1.6));
655   set_boserif(0,1,9);
656   push_stroke(interpath(mincho,
657     (500,537){dir 280}.tension 1.1..(760,0)..(850,0)..tension 1.5..
658     (880,75)..(910,150),
659     (500,537)..(660,150){right}(910,0){curl 1}..
660     (870,75)..(870,150)),
661     (1.6,1.6)–(1.4,1.4)–(1.4,1.4)–(1.2,1.2)–(0.9,0.9));

```

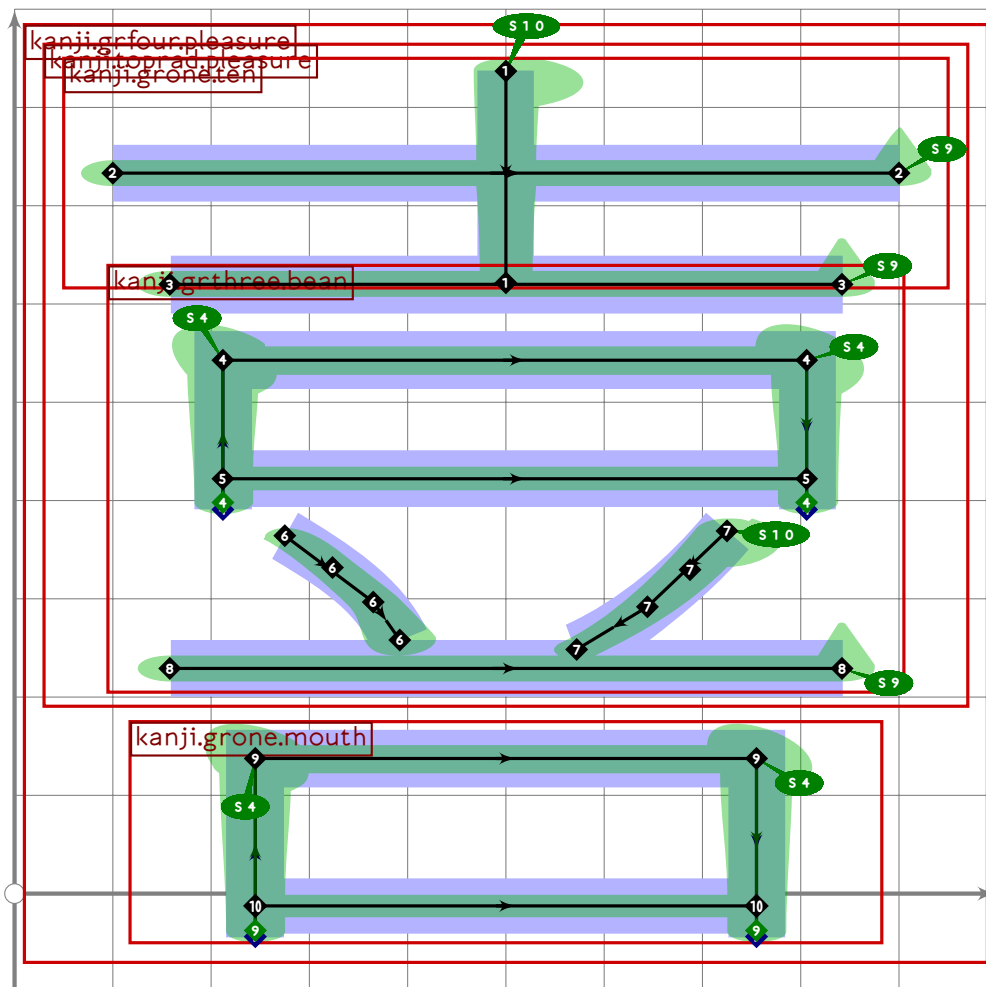
```
662 expand_pbox;
663 endif;
```



FOUR

```
664
665 vardef kanji.grfour.perfect =
666   push_pbox_toexpand("kanji.grfour.perfect");
667   build_kanji.tb(600,110)
668     (kanji.radical.silly_hat)
669     (build_kanji.sscale(xscaled 0.8)(kanji.grtwo.origin));
670   expand_pbox;
671 endif;
```

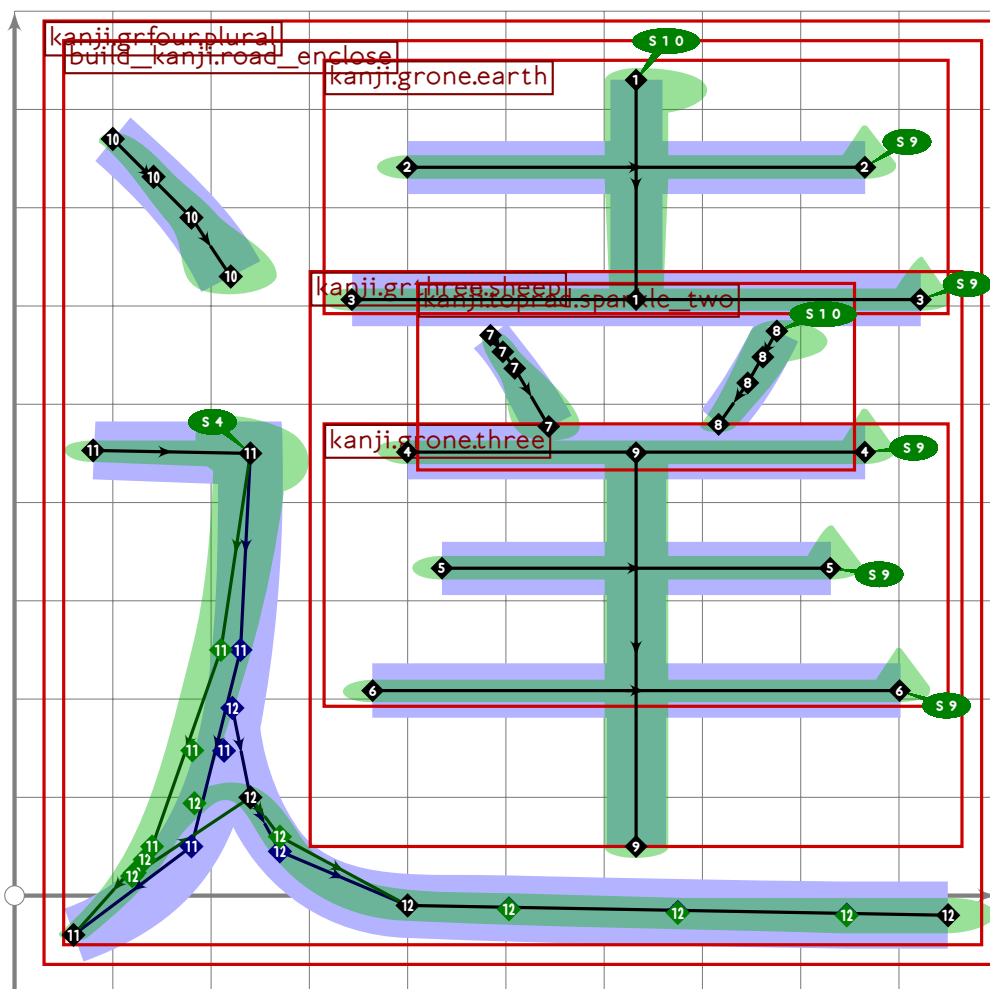
# FOUR



```

672
673 vardef kanji.grfour.pleasure =
674   push_pbox_toexpand("kanji.grfour.pleasure");
675   build_kanji.level(build_kanji.tb(190,-30)
676     (kanji.toprad.pleasure)
677     (build_kanji.sscale(xscaled 0.85)(kanji.grone.mouth)));
678   expand_pbox;
679 enddef;

```



FOUR

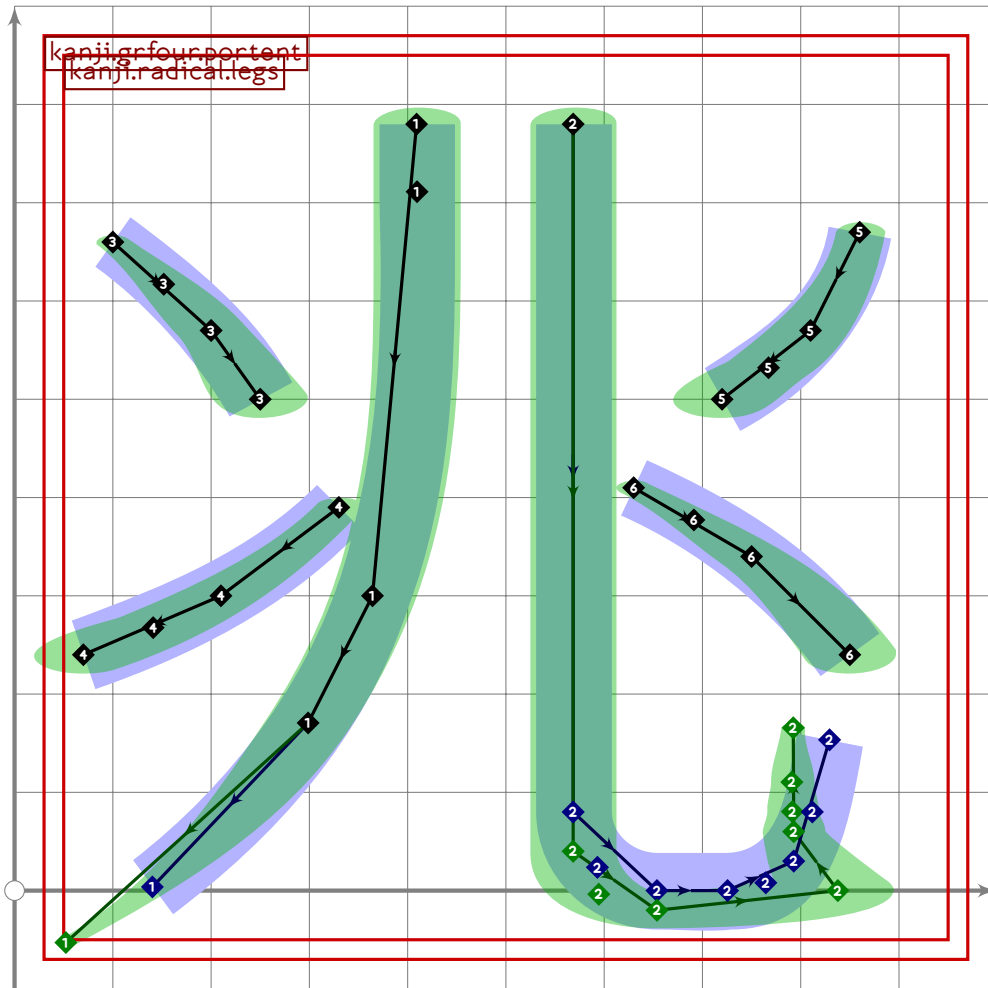
```

680
681 vardef kanji.grfour.plural =
682   push_pbox_toexpand("kanji.grfour.plural");
683   build_kanji.road_enclose(build_kanji.tb(560,0)
684     (kanji.grone.earth)
685     (kanji.grthree.sheep));
686   expand_pbox;
687 enddef;

```



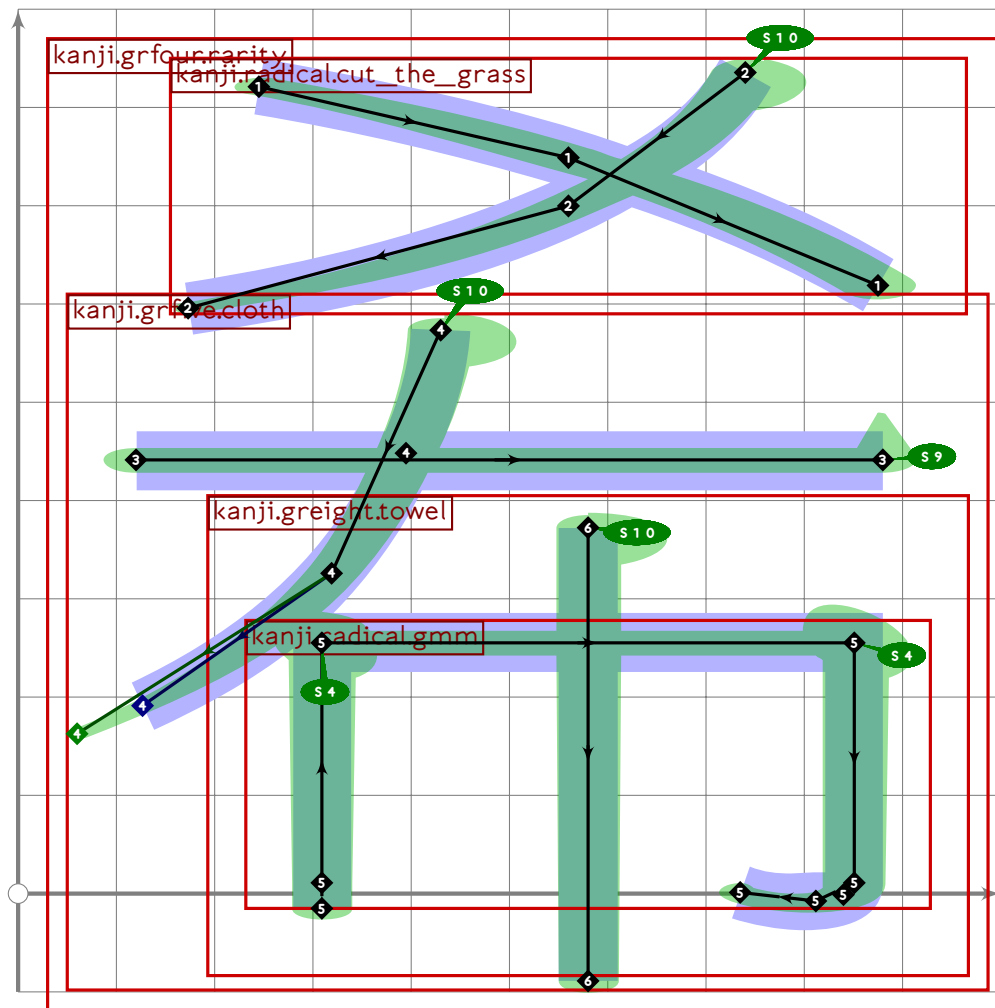
FOUR



```

688
689 vardef kanji.grfour.portent =
690   push_pbox_toexpand("kanji.grfour.portent");
691   build_kanji.spread_legs(-110)(kanji.radical.legs);
692   push_stroke((100,660)..tension 1.2..(200,570)..(250,500),
693     (1,1)–(1.5,1.5)–(1.8,1.8));
694   push_stroke((330,390)..(210,300)..tension 1.2..(70,240),
695     (1.2,1.2)–(1.6,1.6)–(1.9,1.9));
696   push_stroke((860,670)..(810,570)..tension 1.2..(720,500),
697     (1.2,1.2)–(1.6,1.6)–(1.9,1.9));
698   push_stroke((630,410)..tension 1.2..(750,340)..(850,240),
699     (1,1)–(1.5,1.5)–(1.8,1.8));
700   expand_pbox;
701 enddef;

```



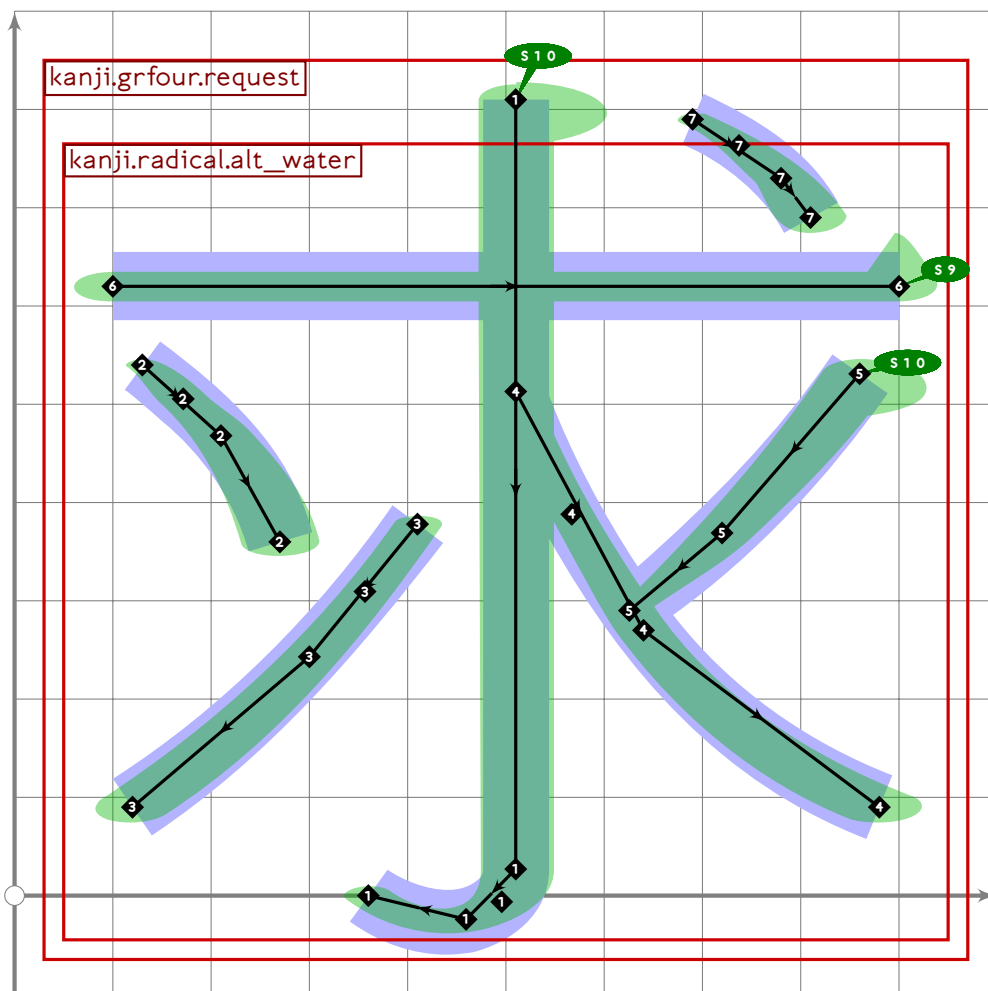
FOUR

```

702
703 vardef kanji.grfour.rarity =
704   push_pbox_toexpand("kanji.grfour.rarity");
705   build_kanji.level(build_kanji.tb(600,20)
706     (build_kanji.sscale(xscaled 0.9 shifted (60,0))
707       (kanji.radical.cut_the_grass))
708     (kanji.grfive.cloth));
709   expand_pbox;
710 enddef;

```

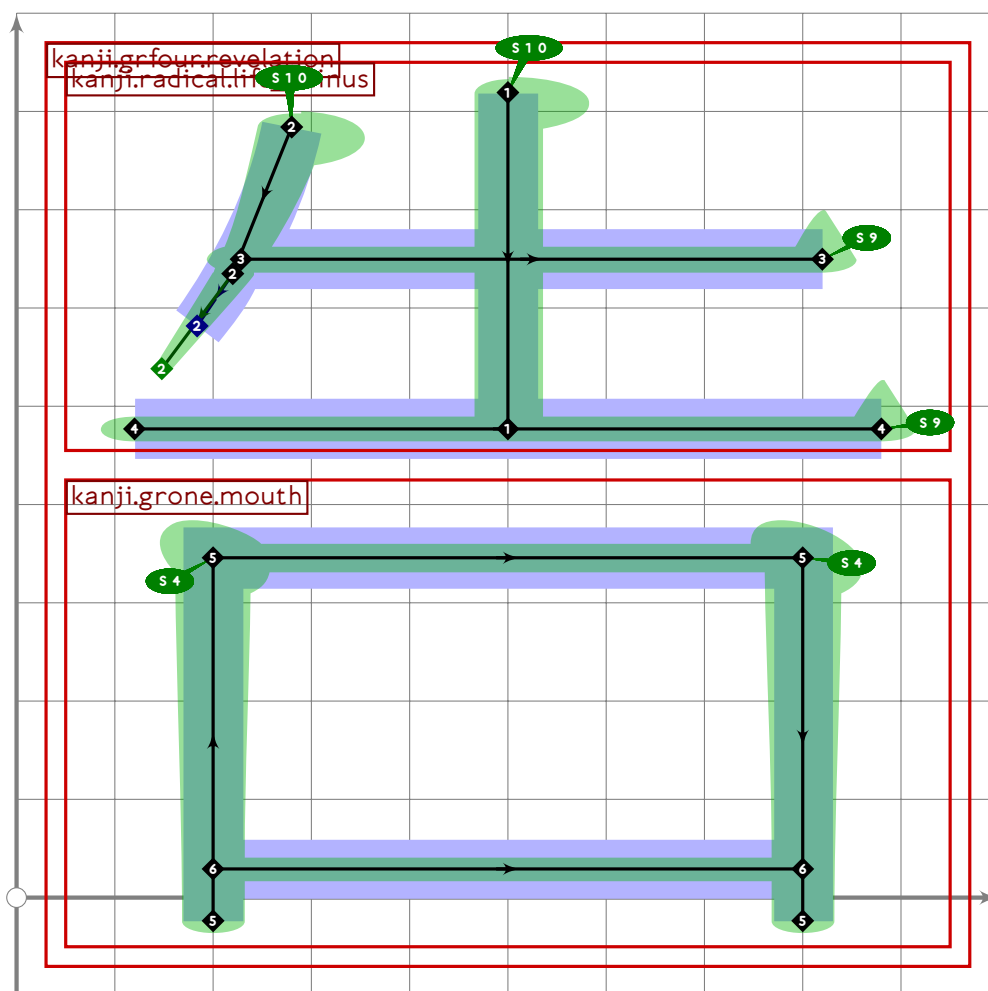
FOUR



```

711
712 vardef kanji.grfour.request =
713   push_pbox_toexpand("kanji.grfour.request");
714   tsu_xform(identity yscaled 0.9)(kanji.radical.alt_water);
715   replace_strokep(-4)((510,810)-(subpath (1,infinity) of oldp));
716   push_stroke((100,620)-(900,620),(1.6,1.6)-(1.6,1.6));
717   set_boserif(0,1,9);
718   push_stroke((690,790)..tension 1.2..(780,730)..(810,690),
719     (1,1)-(14,14)-(1.6,1.6));
720   set_bosize(0,90);
721   expand_pbox;
722 enddef;

```



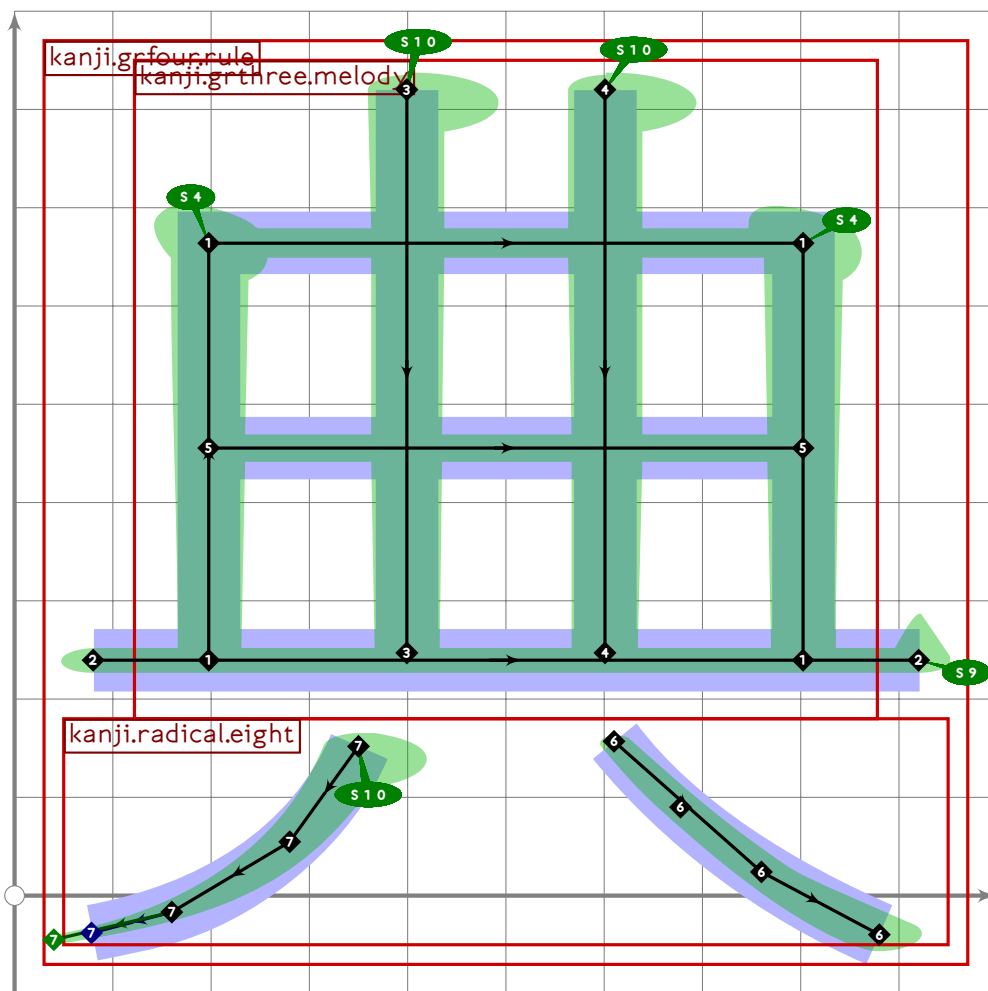
FOUR

```

723
724 vardef kanji.grfour.revelation =
725   push_pbox_toexpand("kanji.grfour.revelation");
726   build_kanji.level(build_kanji.tb(440,-30)
727     (kanji.radical.life_minus)
728     (kanji.grone.mouth));
729   expand_pbox;
730 enddef;

```

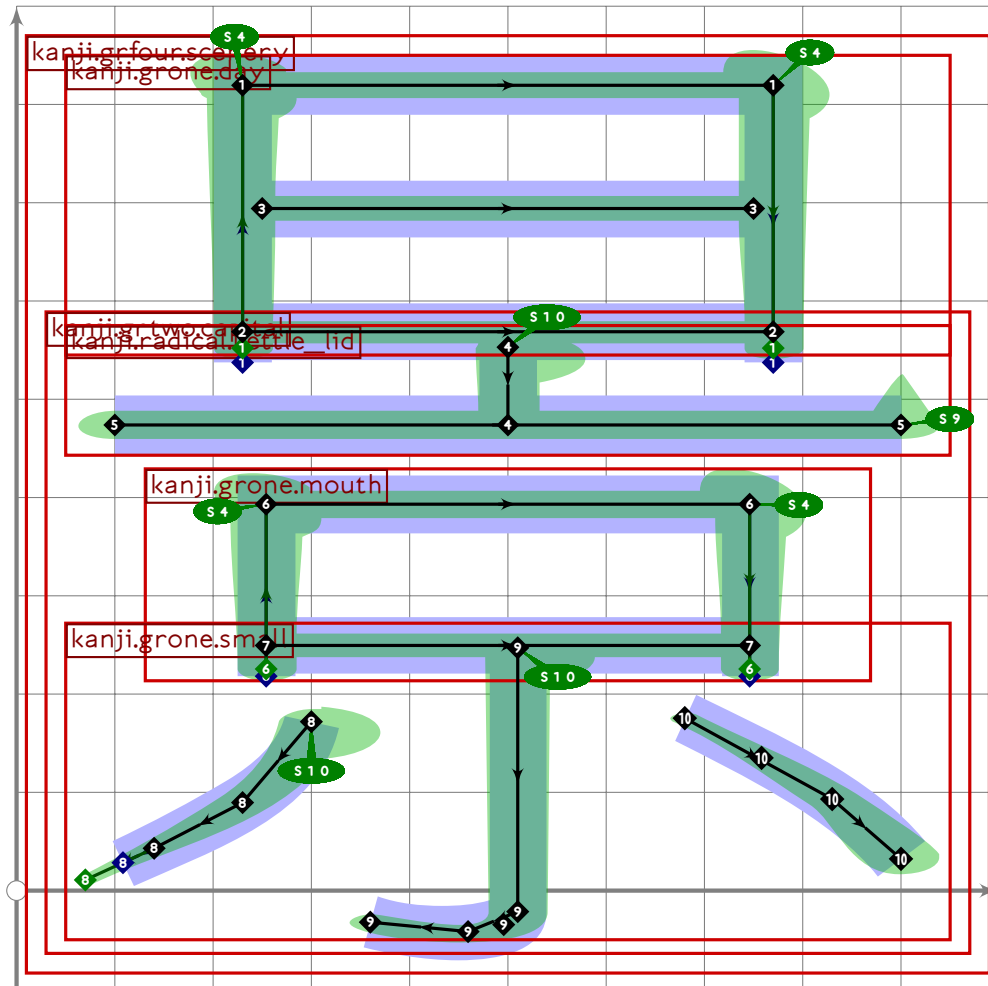
FOUR



```

731
732 vardef kanji.grfour.rule =
733   push_pbox_toexpand("kanji.grfour.rule");
734   build_kanji.level(build_kanji.tb(180,0)
735     (build_kanji.sscale(xscaled 0.84)
736       (kanji.grthree.melody;
737         replace_strokep(-4)((140,30)–(140,600)–(860,600)–(860,30))));
738   pop_hook;
739   replace_strokep(-3)((80,30)–(920,30));
740   set_boserif(-3,1,9))
741   (kanji.radical.eight));
742   expand_pbox;
743   enddef;

```



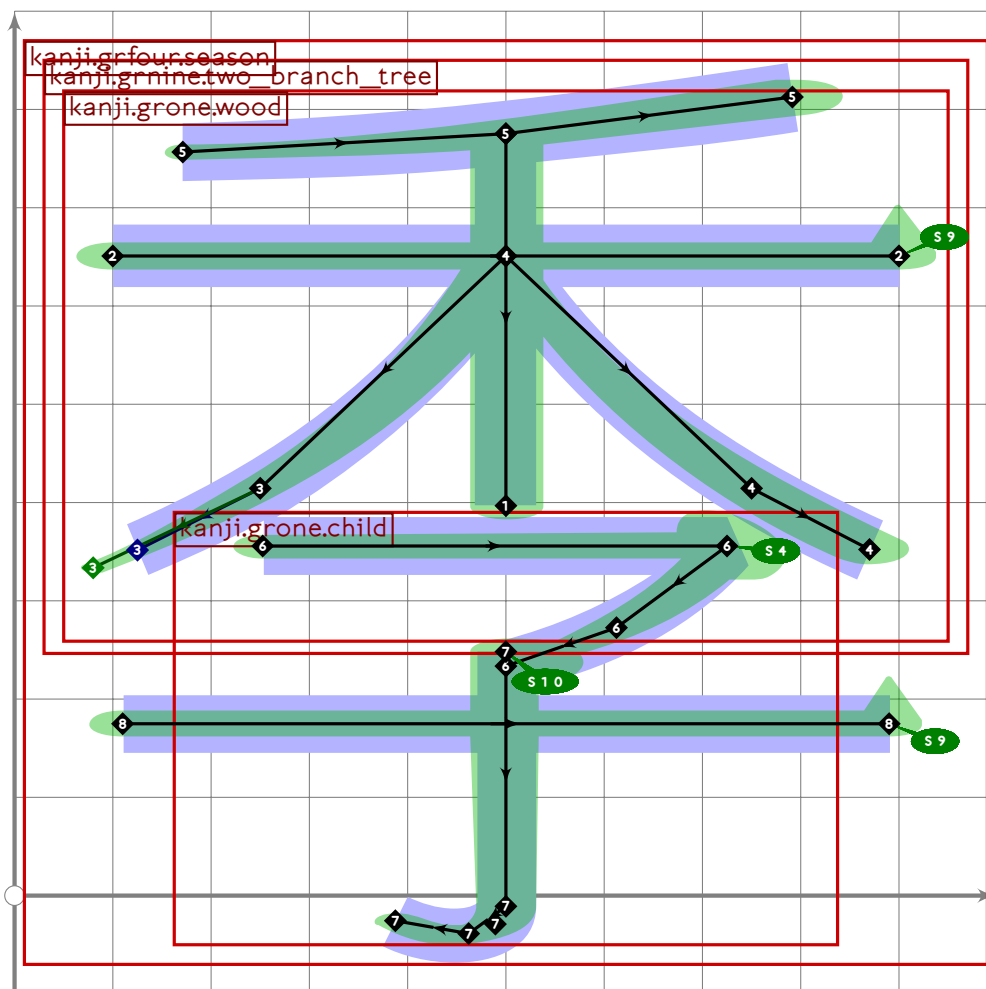
FOUR

```

744
745 vardef kanji.grfour.scenery =
746   push_pbox_toexpand("kanji.grfour.scenery");
747   build_kanji.level(build_kanji.tb(560,30)
748     (kanji.grone.day)
749     (kanji.grtwo.capital));
750   expand_pbox;
751 enddef;

```

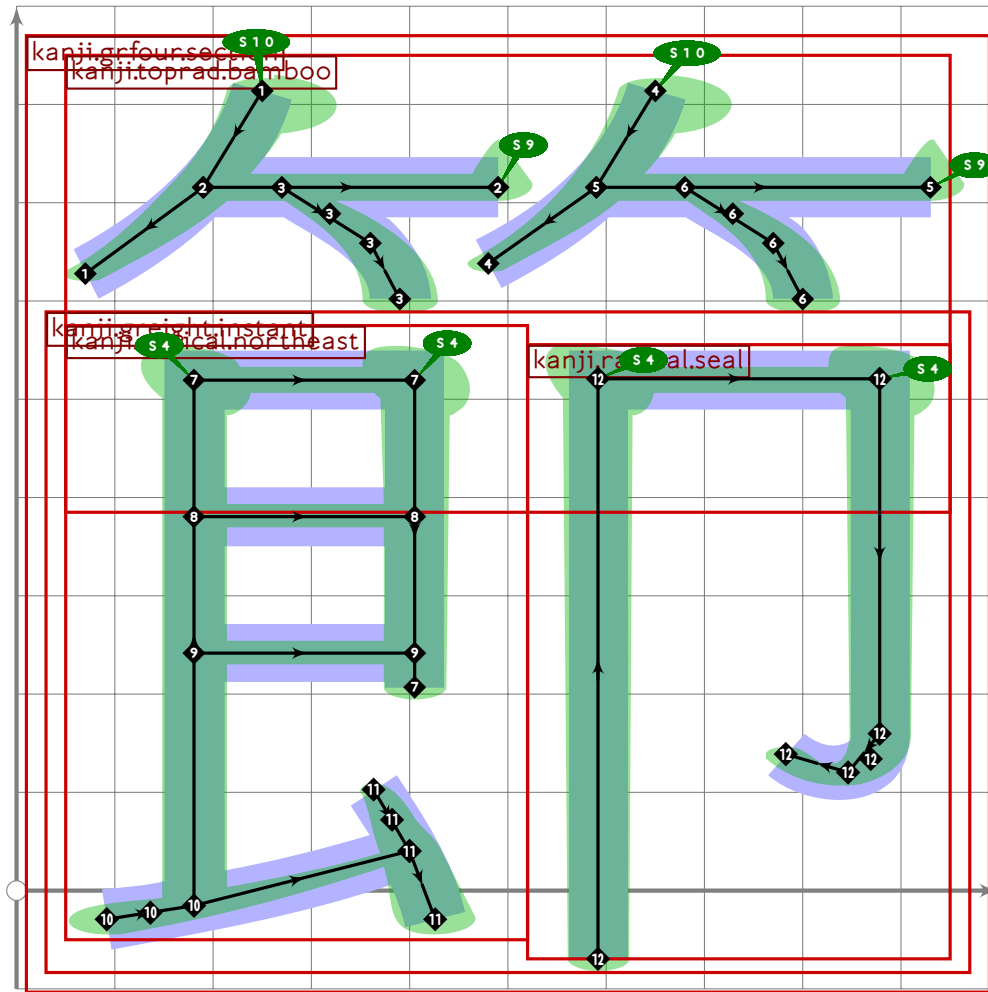
FOUR



```

752
753 vardef kanji.grfour.season =
754   push_pbox_toexpand("kanji.grfour.season");
755   build_kanji.tb(340,100)
756   (kanji.grnine.two_branch_tree;
757     replace_stroke(-4)(subpath (0,0.78) of oldp))
758   (path charsvp;
759     build_kanji.sscale(xscaled 0.75)
760     (kanji.grone.child;
761       charsvp:=get_stroke(0));
762     replace_stroke(0)(charsvp));
763   expand_pbox;
764 enddef;

```



FOUR

```

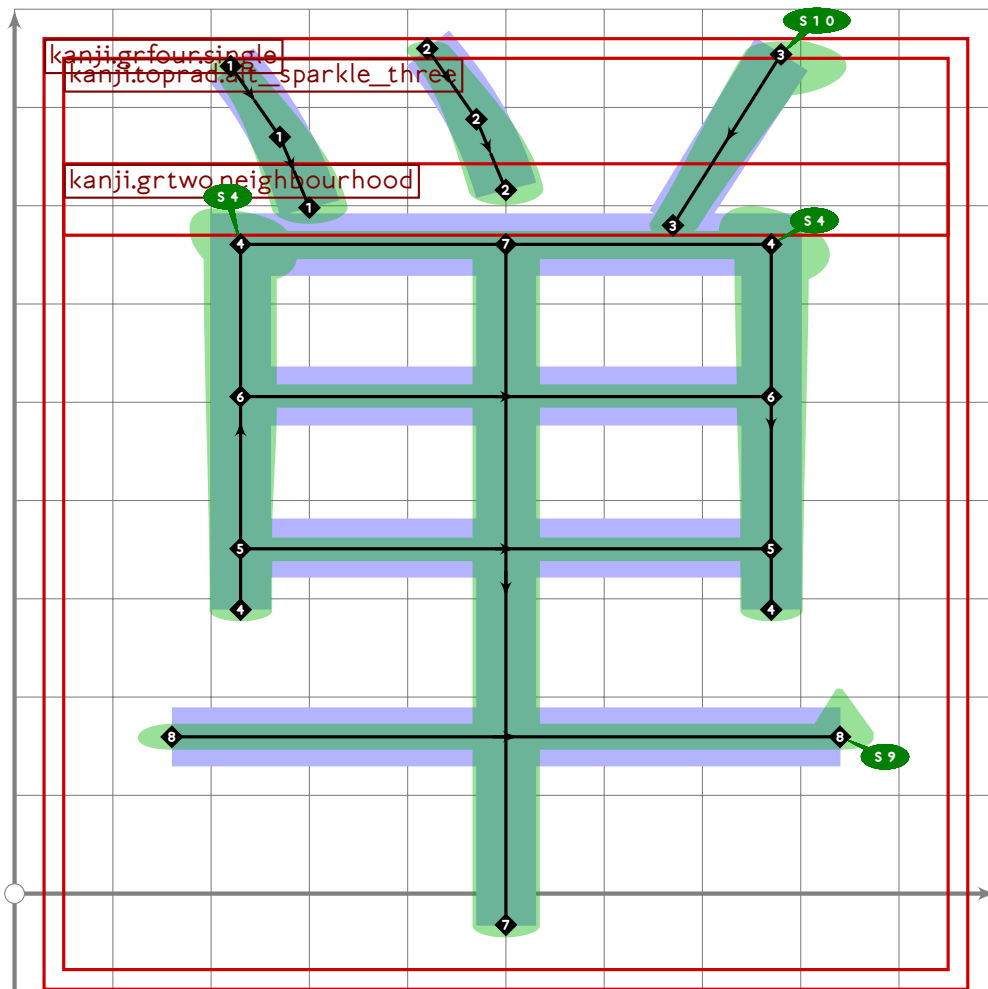
765
766 vardef kanji.grfour.section =
767   push_pbox_toexpand("kanji.grfour.section");
768   build_kanji.level(build_kanji.tb(480,190)
769     (kanji.toprad.bamboo)
770     (kanji.greight.instant));
771   expand_pbox;
772 enddef;

```



U+5358  
tsuku.uni5358

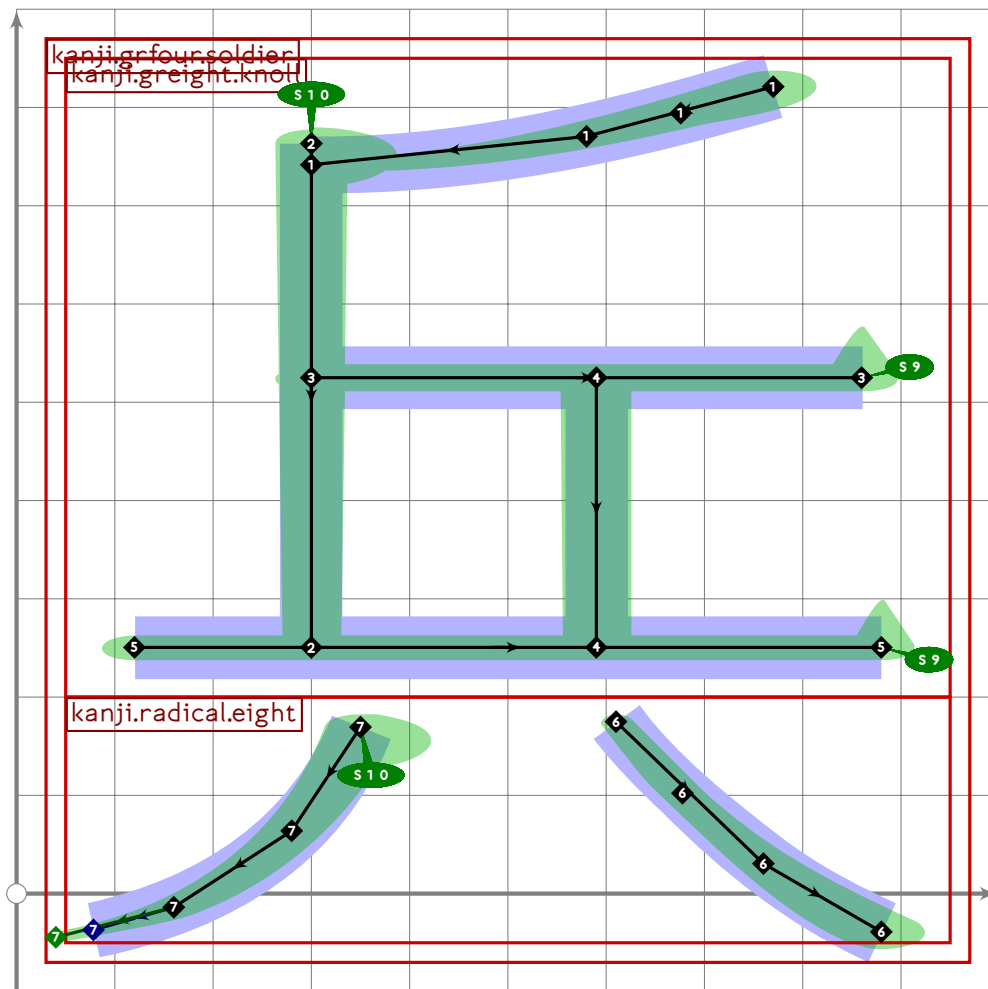
FOUR



```

773
774 vardef kanji.grfour.single =
775   push_pbox_toexpand("kanji.grfour.single");
776   build_kanji.level(build_kanji.tb(720,100)
777     (kanji.toprad.alt_sparkle_three)
778     (build_kanji.sscale(shifted (0,30))(kanji.grtwo.neighbourhood);
779     pop_stroke));
780   expand_pbox;
781 enddef;

```



FOUR

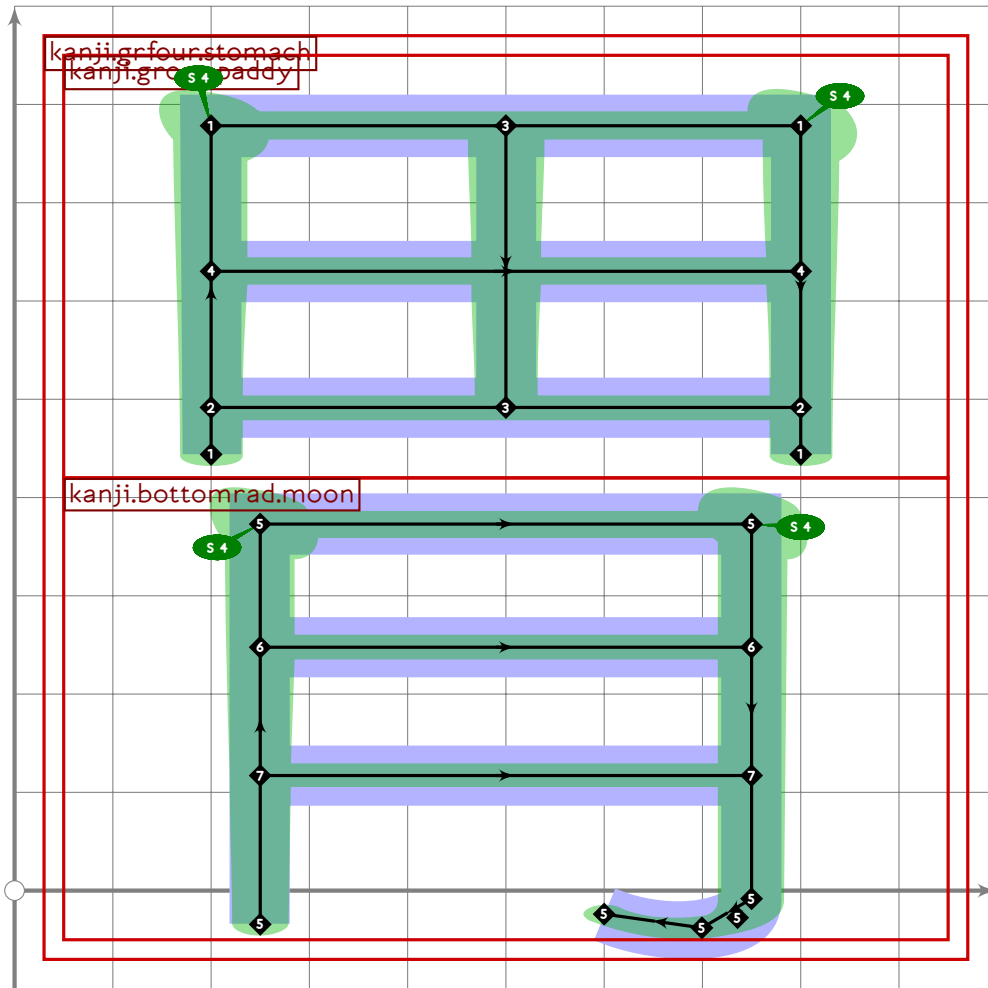
```

782
783 vardef kanji.grfour.soldier =
784   push_pbox_toexpand("kanji.grfour.soldier");
785   build_kanji.level(build_kanji.tb(200,0)
786     (kanji.greight.knoll)
787     (kanji.radical.eight));
788   expand_pbox;
789 enddef;

```

U+80C3  
tsuku.uni80C3

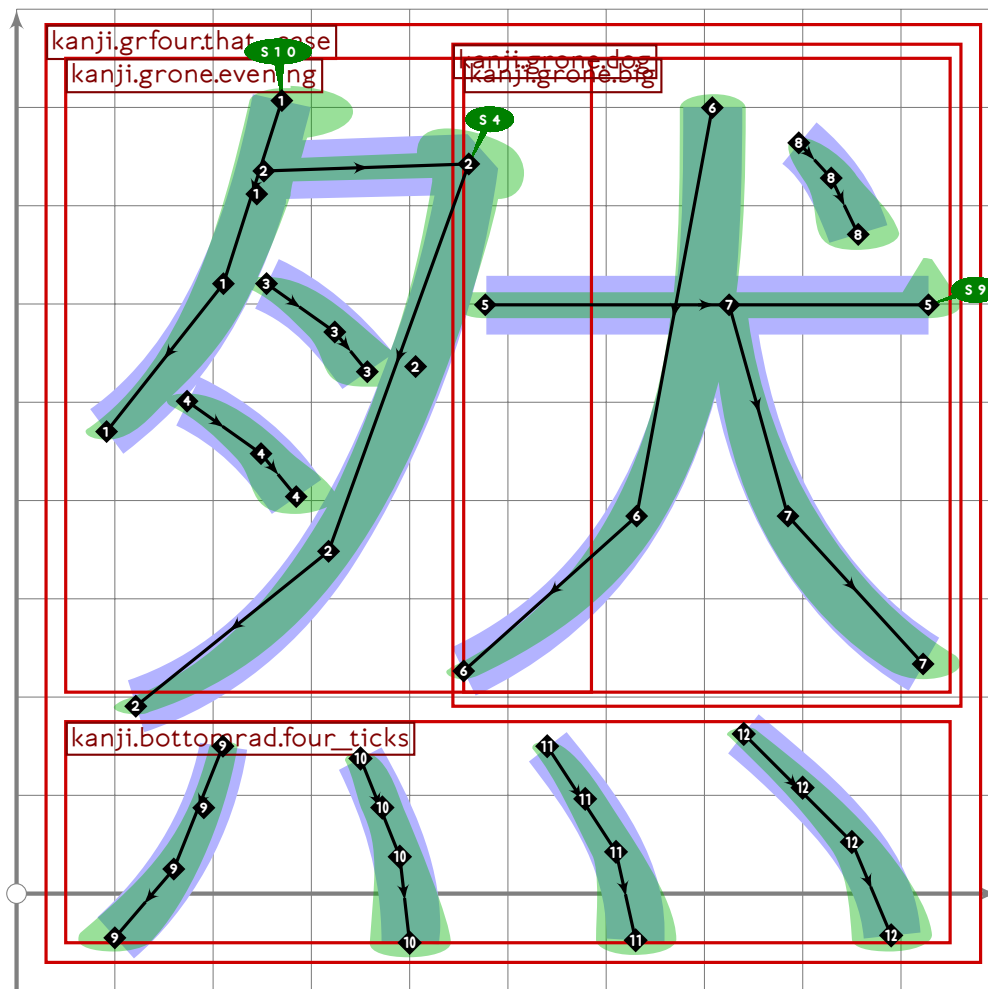
FOUR



```

790
791 vardef kanji.grfour.stomach =
792   push_pbox_toexpand("kanji.grfour.stomach");
793   build_kanji.level(build_kanji.tb(420,0)
794     (kanji.grone.paddy)
795     (kanji.bottomrad.moon));
796   expand_pbox;
797 enddef;

```



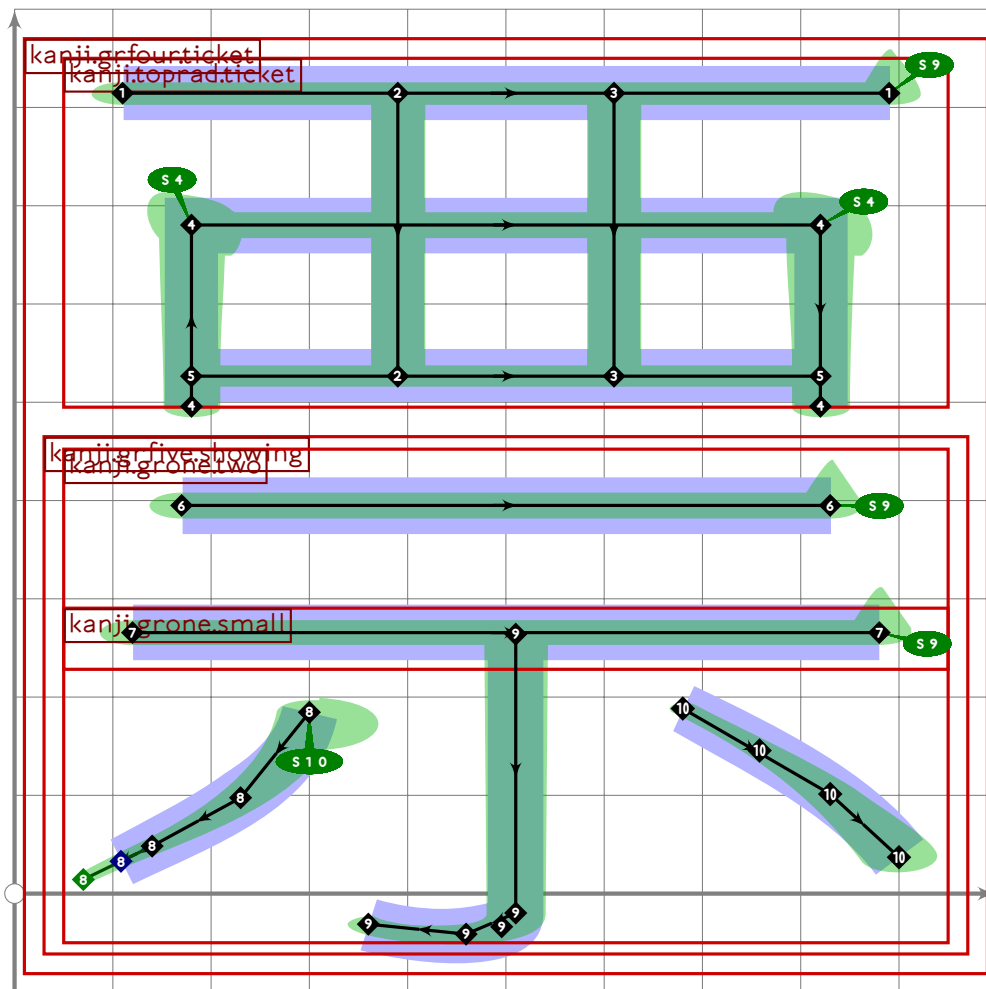
FOUR

```

798
799 vardef kanji.grfour.that_case =
800   path mytp,mytq;
801   push_pbox_toexpand("kanji.grfour.that_case");
802   build_kanji.tb(190,30)
803     (build_kanji.level(build_kanji.lr(520,130)
804       (kanji.grone.evening;
805         mytp=get_strokep(0);
806         mytq=get_strokeq(0);
807         push_stroke(mytp shifted (-point 0.6 of mytp)
808           scaled 0.65 shifted ((-90,120)+point 0.6 of mytp),mytq);
809         replace_strokep(-1)(oldp shifted (-point 0.6 of oldp)
810           scaled 0.60 shifted ((40,50)+point 0.6 of oldp)))
811         (kanji.grone.dog)))
812     (kanji.bottomrad.four_ticks);
813   expand_pbox;
814 enddef;

```

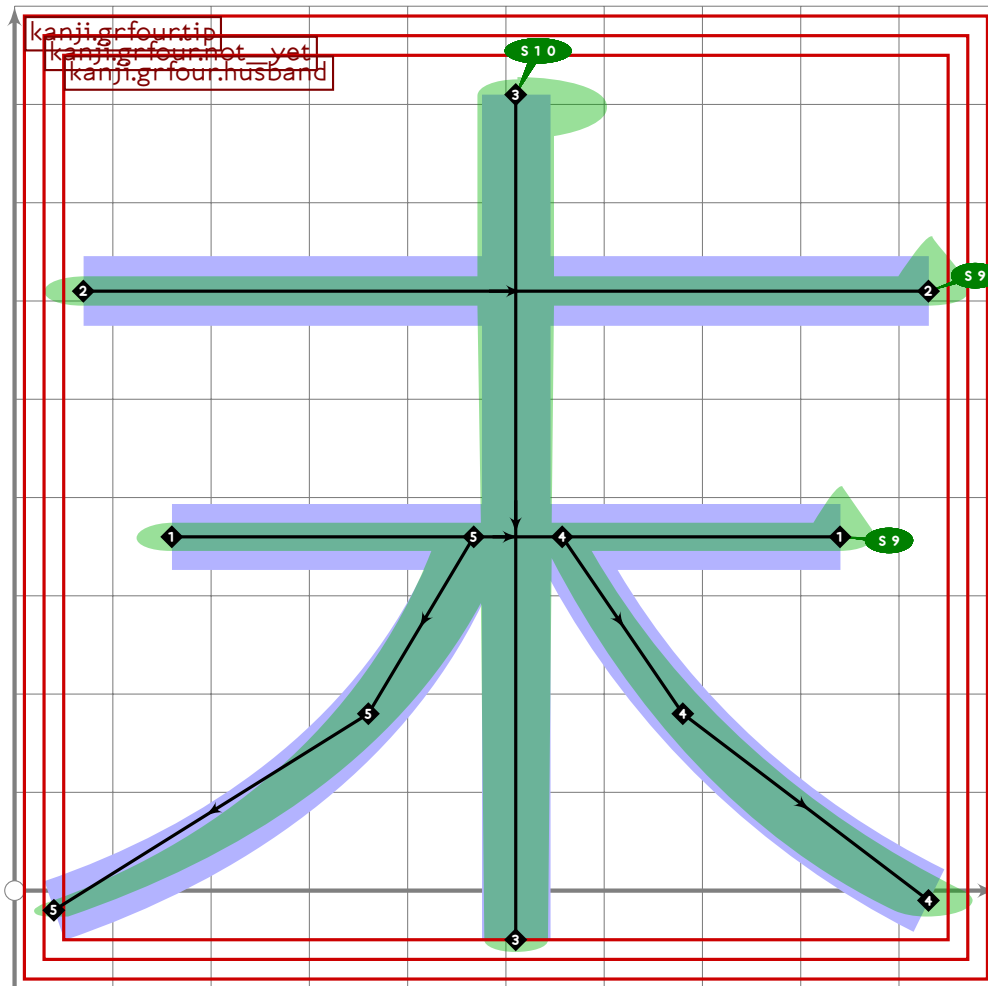
# FOUR



```

815
816 vardef kanji.grfour.ticket =
817   push_pbox_toexpand("kanji.grfour.ticket");
818   build_kanji.tb(480,-30)
819     (kanji.toprad.ticket)
820     (kanji.grfive.showing);
821   expand_pbox;
822 enddef;

```



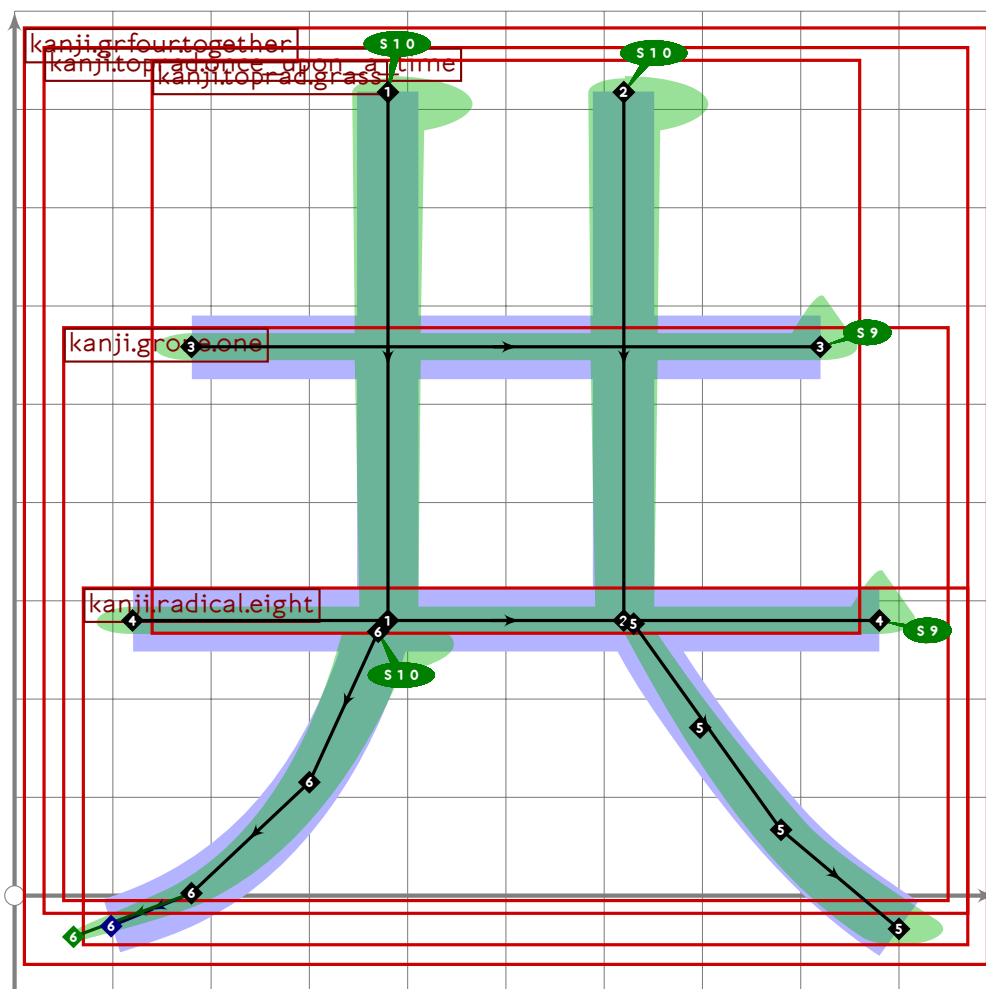
FOUR

```

823
824 vardef kanji.grfour.tip =
825   push_pbox_toexpand("kanji.grfour.tip");
826   kanji.grfour.not_yet;
827   replace_strokep(-3)((70,610)-(930,610));
828   replace_strokep(-4)((160,360)-(840,360));
829   expand_pbox;
830 enddef;

```

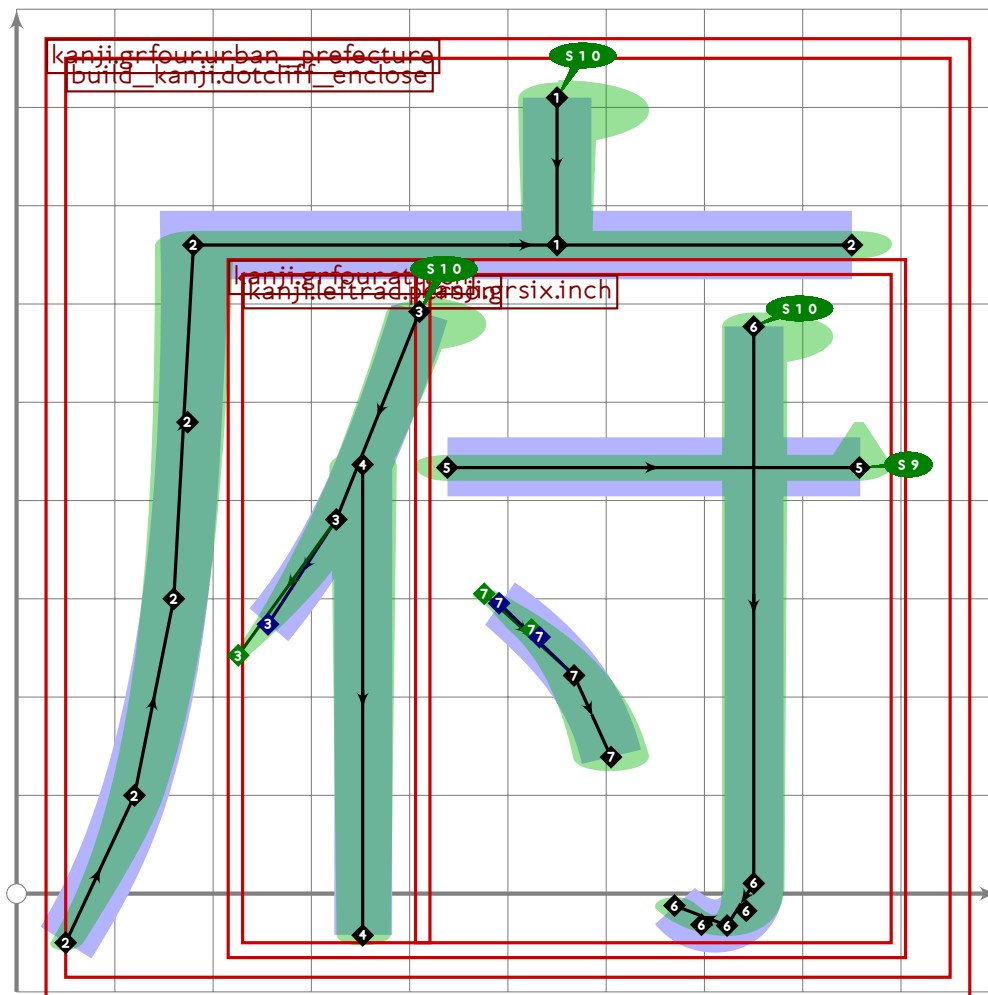
FOUR



```

831
832 vardef kanji.grfourtogether =
833   push_pbox_toexpand("kanji.grfourtogether");
834   build_kanji.level(build_kanji.tb(29046)
835     (kanji.toprad.once_upon_a_time)
836     (tsu_xform(identity shifted (20,0))(kanji.radical.eight)));
837   expand_pbox;
838 enddef;

```



FOUR

```

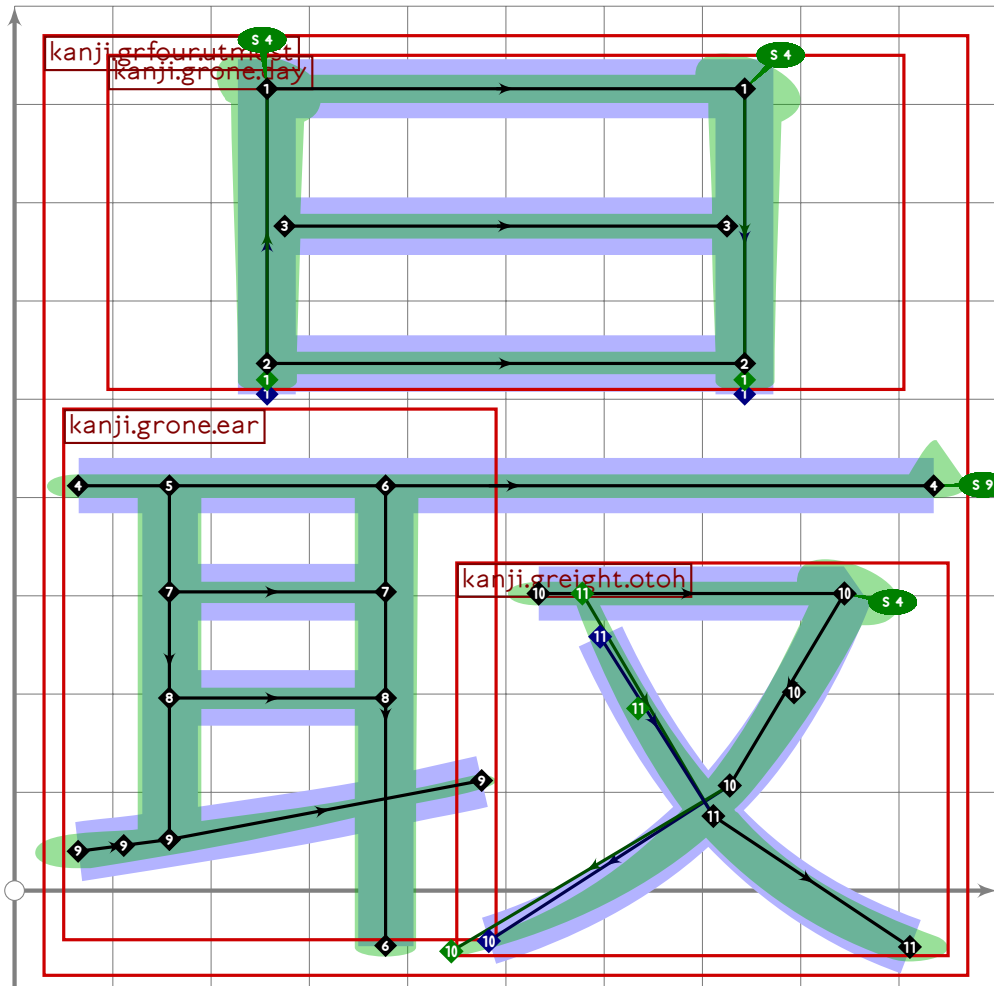
839
840 vardef kanji.grfour.urban_prefecture =
841   push_pbox_toexpand("kanji.grfour.urban_prefecture");
842   build_kanji.dotcliff_enclose(kanji.grfour.attach);
843   expand_pbox;
844 enddef;

```



U+6700  
tsuku.uni6700

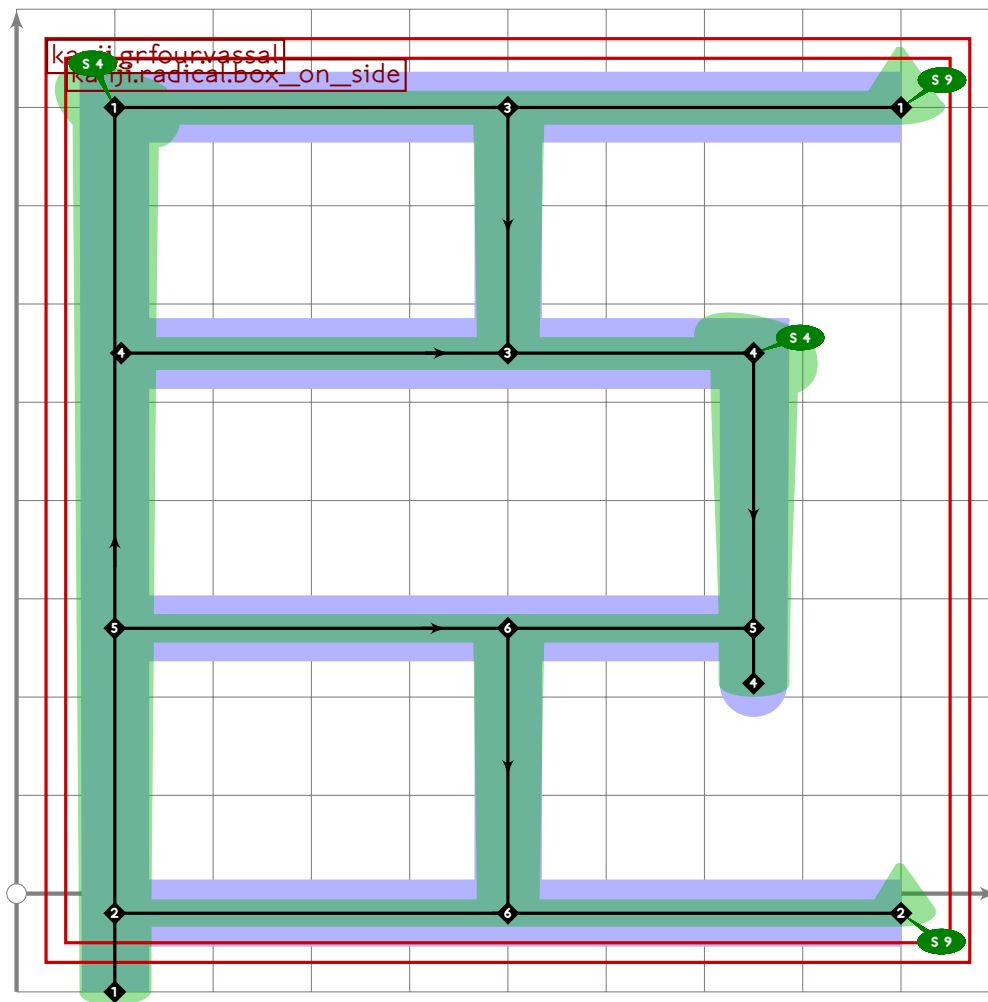
FOUR



```

845
846 vardef kanji.grfour.utmost =
847   push_pbox_toexpand("kanji.grfour.utmost");
848   build_kanji.tb(500,-20)
849     (build_kanji.sscale(xscaled 0.9)(kanji.grone.day))
850     (build_kanji.lr(470,40)
851       (kanji.grone.ear)
852       (tsu_xform(identity yscaled 0.74 shifted (0,-40))
853         (kanji.greight.otoh)));
854   replace_strokep(-7)
855     (point 0 of oldp-(point 0 of oldp xscaled -1 shifted (1000,0)));
856   expand_pbox;
857 enddef;

```



FOUR

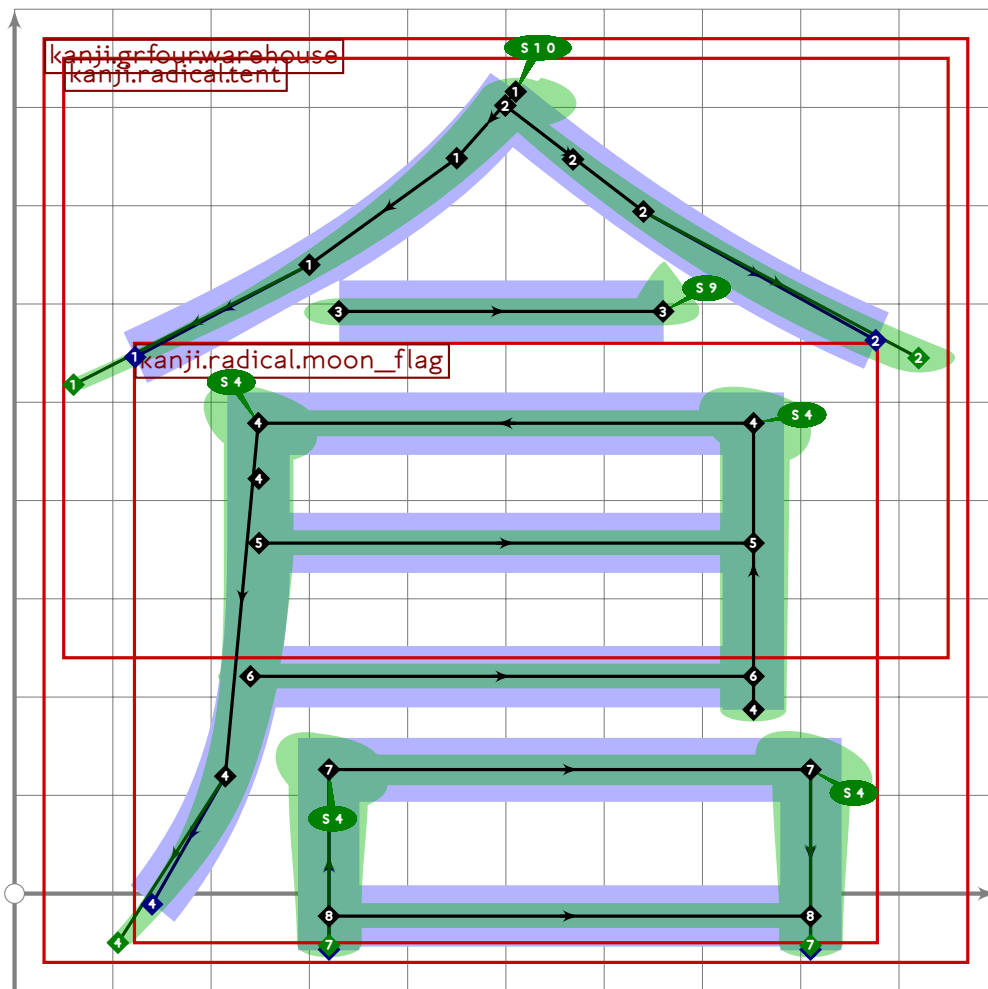
```

858
859 vardef kanji.grfour.vassal =
860   push_pbox_toexpand("kanji.grfour.vassal");
861   kanji.radical.box_on_side;
862   push_stroke((500,800)–(500,550),(1.5,1.5)–(1.4,1.4));
863   build_kanji.box((100,550),(750,270));
864   replace_stroke(-1)(subpath (1.01,infinity) of oldp);
865   replace_stroke(-1)(subpath (1,infinity) of oldq);
866   set_boserif(-1,2,whatever);
867   push_stroke((500,270)–(500,20),(1.5,1.5)–(1.4,1.4));
868   expand_pbox;
869 enddef;

```

U+5009  
tsuku.uni5009

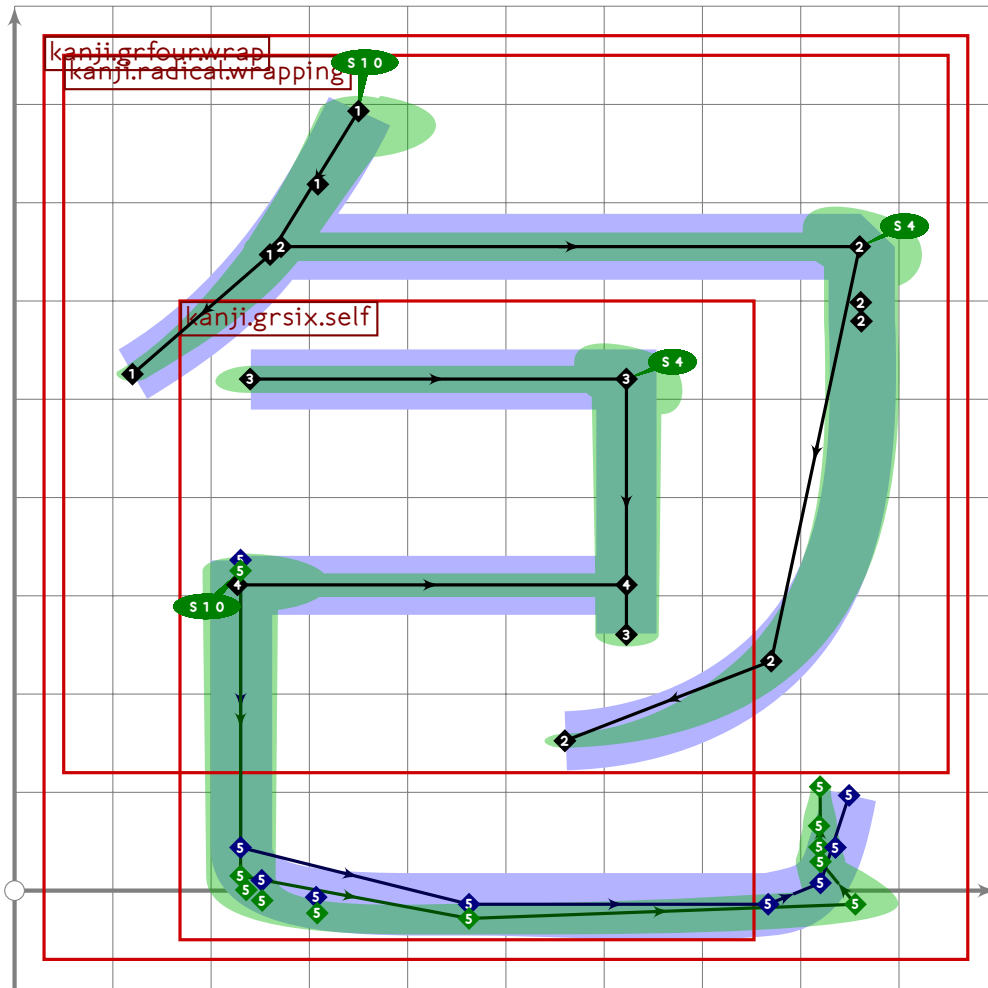
FOUR



```

870
871 vardef kanji.grfour.warehouse =
872   push_pbox_toexpand("kanji.grfour.warehouse");
873   build_kanji.level(build_kanji.tb(400,320)
874     (kanji.radical.tent)
875     (build_kanji.sscale(xscaled 0.84)(kanji.radical.moon_flag);
876     build_kanji.box((320,210),(810,-10)))));
877   expand_pbox;
878 enddef;

```



FOUR

```

879
880 vardef kanji.grfour.wrap =
881   push_pbox_toexpand("kanji.grfour.wrap");
882   build_kanji.tb(360,480)
883     (kanji.radical.wrapping)
884     (save savep,selft;
885       path savep;
886       transform selft[];
887
888       (145,0) transformed selft1=(230,0);
889       (145,1000) transformed selft1=(230,1000);
890       (900,0) transformed selft1=(720,0);
891       (145,0) transformed selft2=(230,0);
892       (145,1000) transformed selft2=(230,1000);
893       (900,0) transformed selft2=(900,0);
894       tsu_xform(selft1)
895       (kanji.grsix.self;
896         savep=get_strokep(0));
897       replace_strokep(0)(savep transformed selft2));
898   expand_pbox;
899 enddef;

```

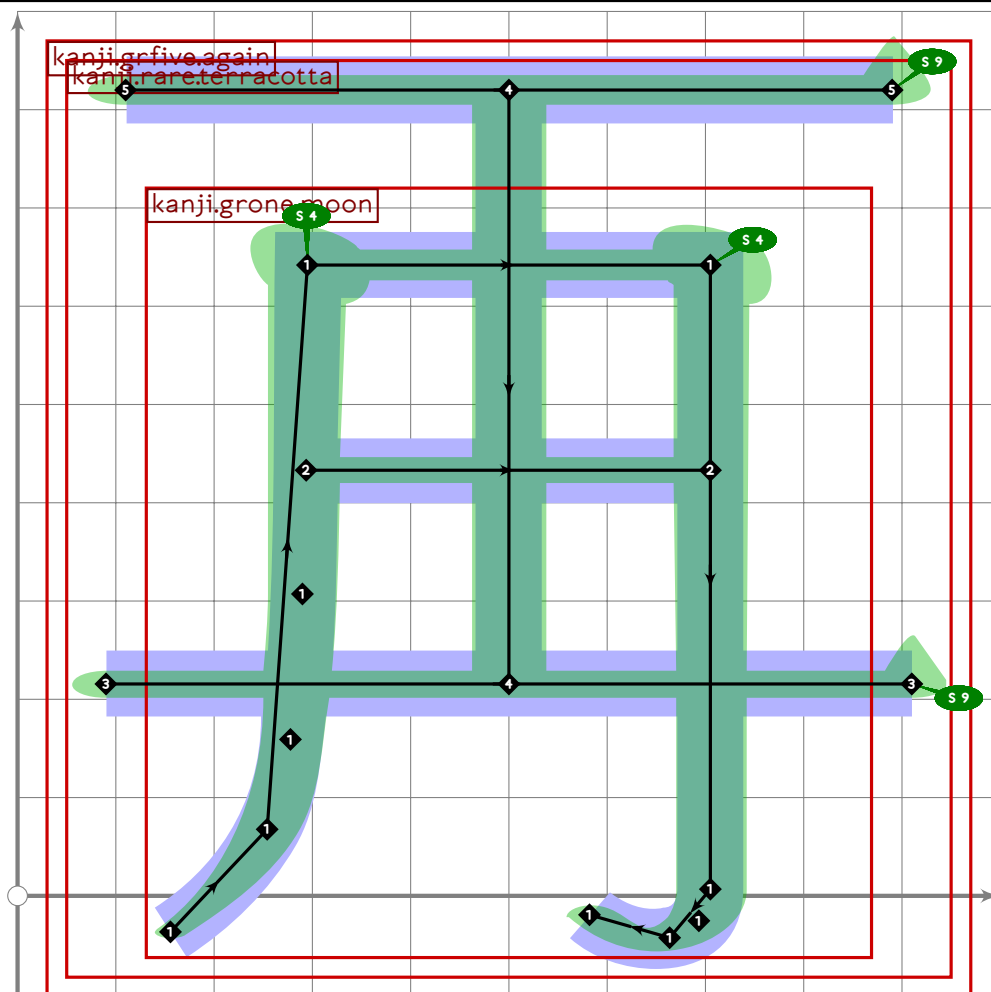
## gradefive.mp

```

1 %
2 % Grade Five kanji used on more than one page
3 % Copyright (C) 2011, 2012, 2013, 2014, 2016, 2017 Matthew Skala
4 %
5-29 [Standard copyright notice]
30
31 inclusion_lock(gradefive);
32
33

```

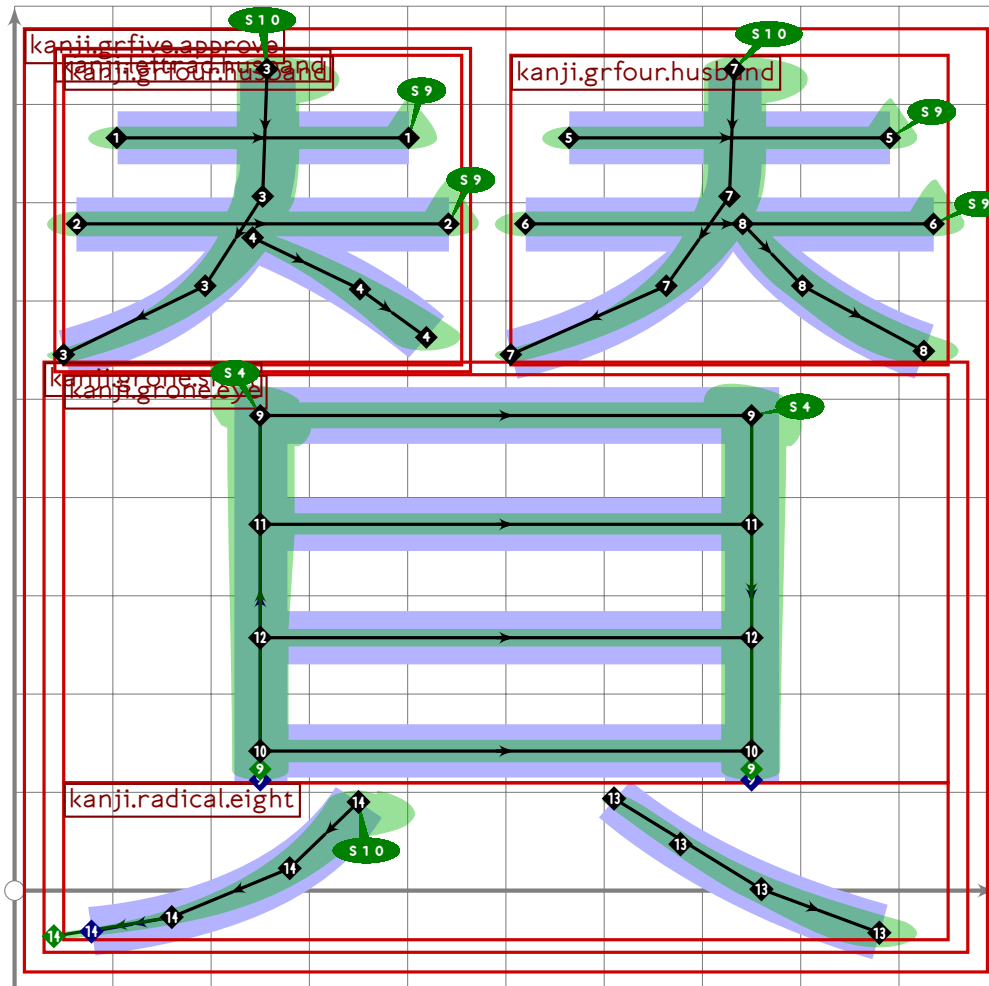
FIVE



```

34
35 vardef kanji.grfive.again =
36   push_pbox_toexpand("kanji.grfive.again");
37   build_kanji.level(
38     kanji.rare.terracotta;
39     set_boserif(0,0,whatever);
40     push_stroke((110,820)-(890,820),(1.6,1.6)-(1.6,1.6));
41     set_boserif(0,1,9));
42   expand_pbox;
43 enddef;

```

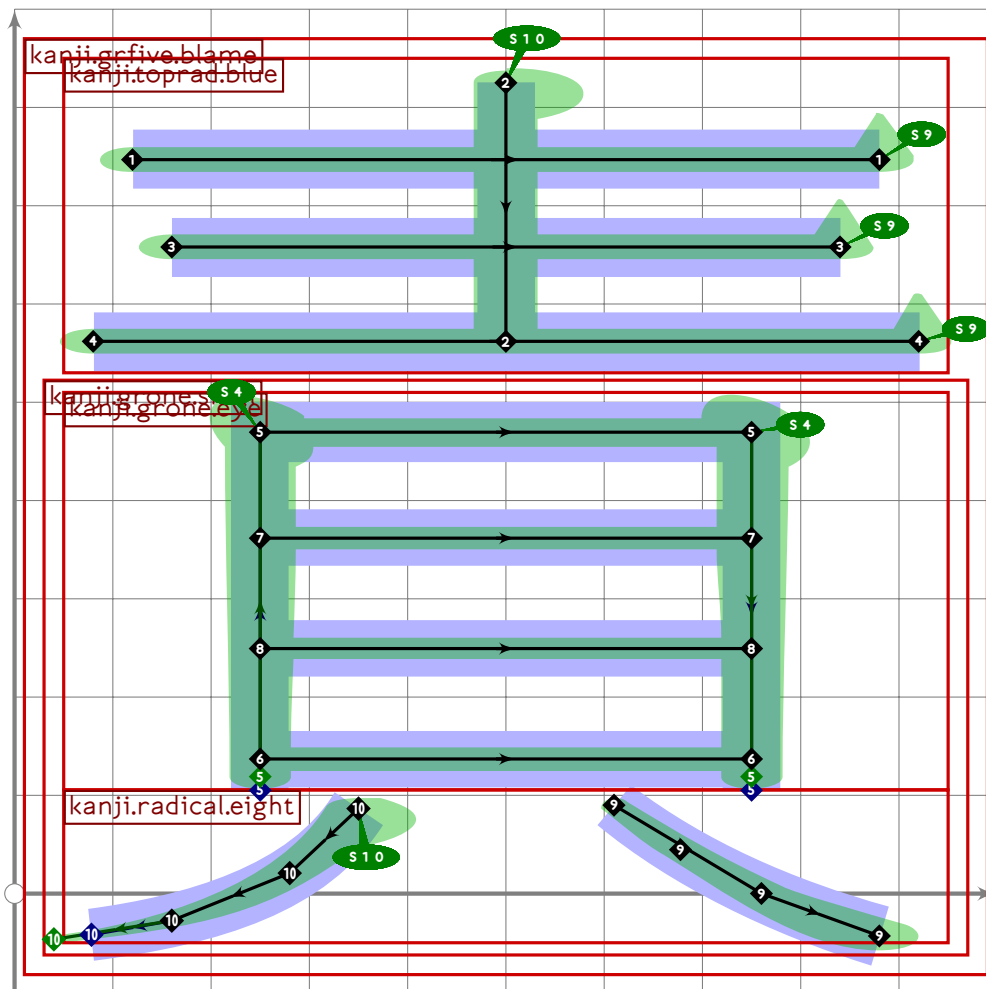


FIVE

```

44
45 vardef kanji.grfive.approve =
46   push_pbox_toexpand("kanji.grfive.approve");
47   build_kanji.level(build_kanji.tb(530,-10)
48     (build_kanji.lr(480,-50)
49       (kanji.leftrad.husband)
50       (kanji.grfour.husband))
51     (kanji.grone.shell));
52   expand_pbox;
53 enddef;

```

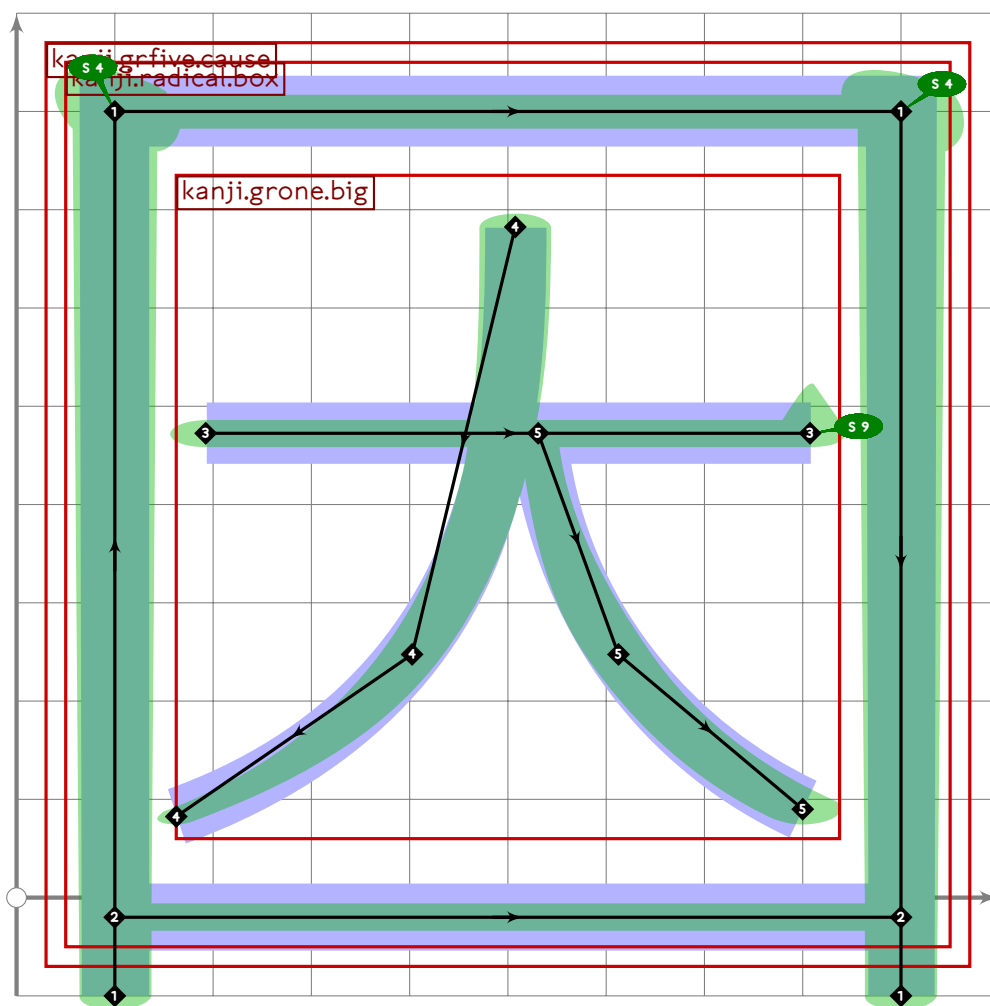


FIVE

```

54
55 vardef kanji.grfive.blame =
56   push_pbox_toexpand("kanji.grfive.blame");
57   build_kanji.level(build_kanji.tb(520,-20)
58     (kanji.toprad.blue)
59     (kanji.grone.shell));
60   expand_pbox;
61 enddef;

```



FIVE

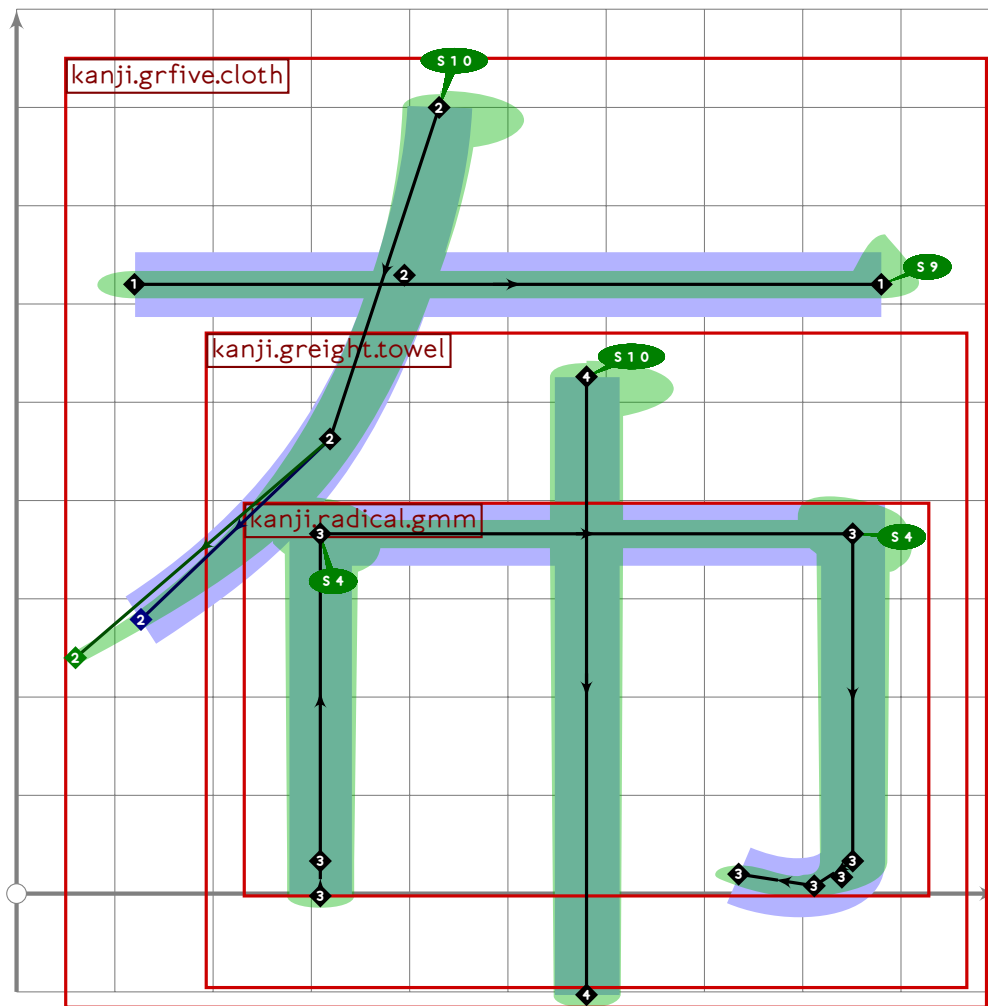
```

62
63 vardef kanji.grfive.cause =
64   push_pbox_toexpand("kanji.grfive.cause");
65   kanji.radical.box;
66   build_kanji.sscale(scaled 0.75)(kanji.grone.big);
67   expand_pbox;
68 enddef;

```



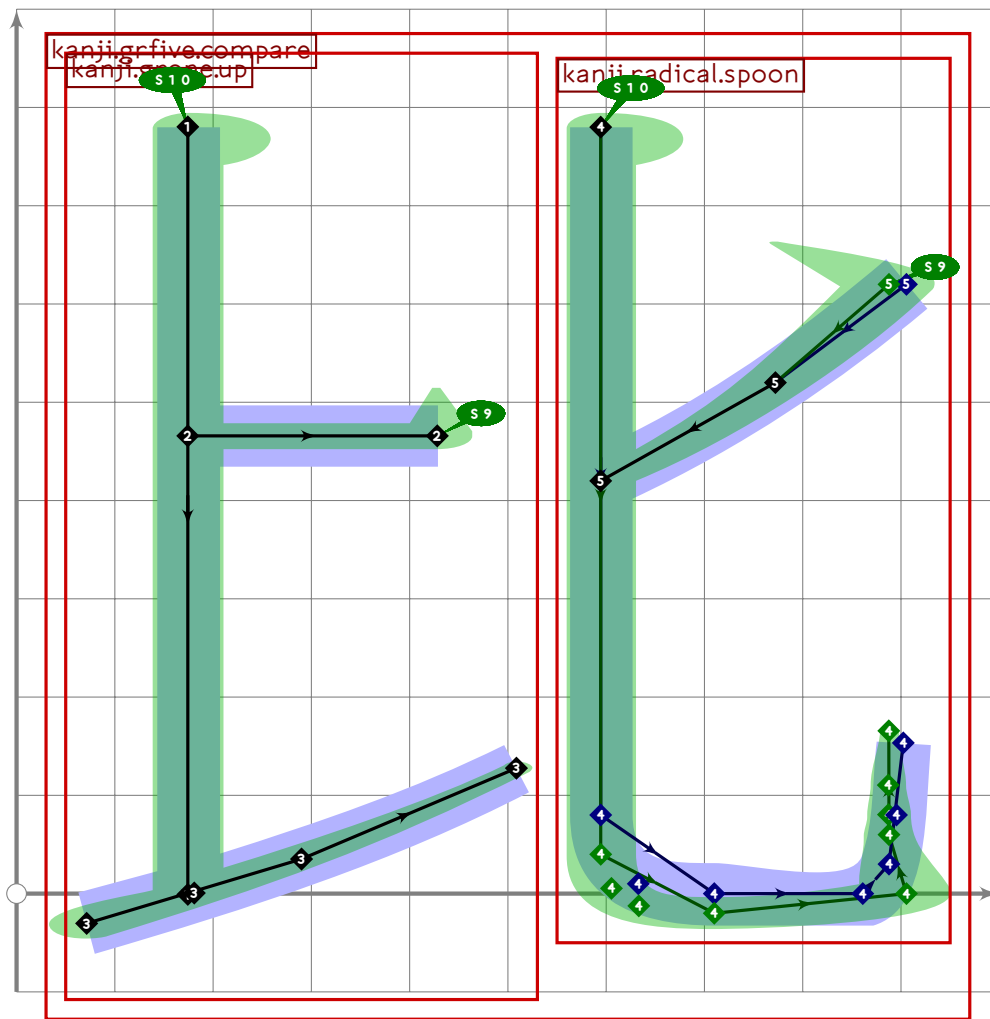
# FIVE



```

69
70 vardef kanji.grfive.cloth =
71   push_pbox_toexpand("kanji.grfive.cloth");
72   build_kanji.level(
73     build_kanji.lean_to((430,240));
74     build_kanji.sscale(xyscaled (0.86,0.74) shifted (80,-160))
75     (kanji.greight.towel);
76   );
77   expand_pbox;
78 enddef;

```



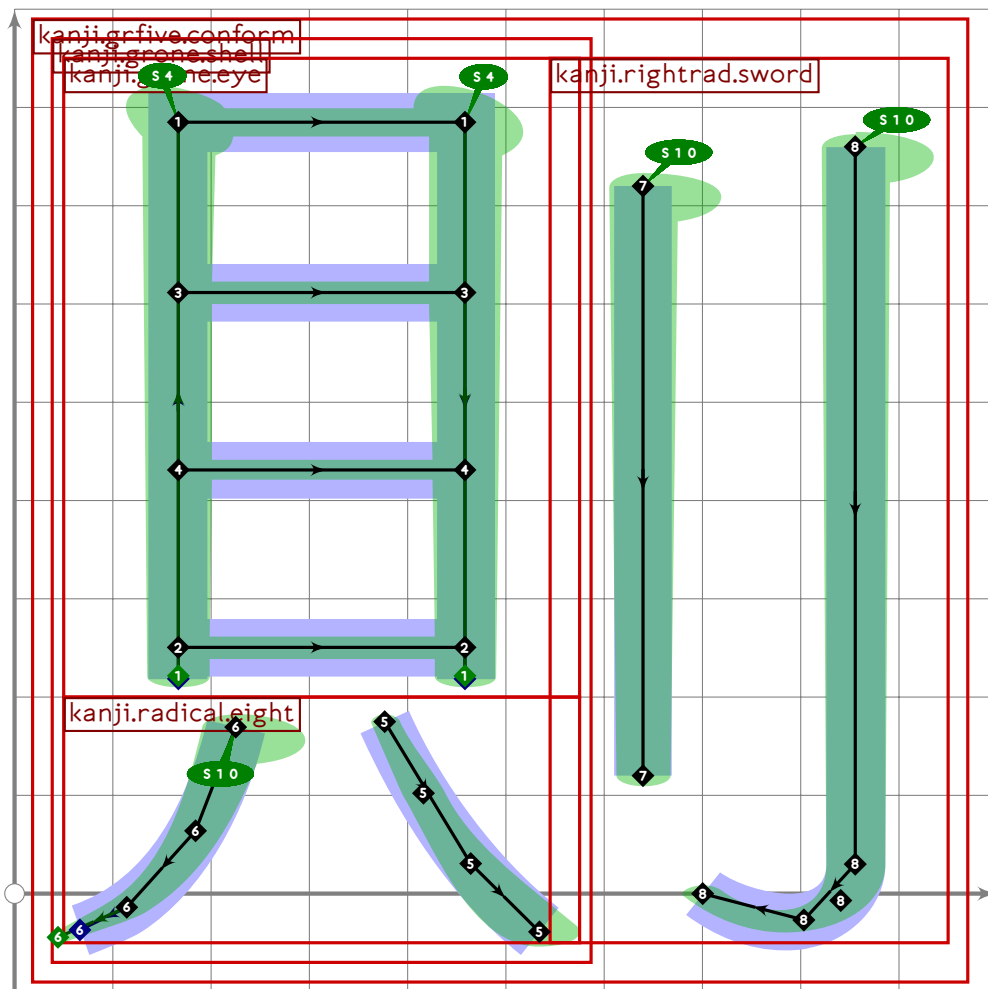
FIVE

```

79
80 vardef kanji.grfive.compare =
81   push_pbox_toexpand("kanji.grfive.compare");
82   build_kanji.level(build_kanji.lr(540,20)
83     (build_kanji.lift_skirt(300,160)
84       (build_kanji.sscale(yscaled 1.07 shifted (0,-27))(kanji.grone.up);
85         replace_strokep(-1)
86           (oldp shifted (-810,0) xscaled 1.7 shifted (810,60));
87         replace_strokep(-2)
88           (oldp shifted (-810,0) xscaled 1.7 shifted (810,0))))
89     (kanji.radical.spoon));
90   expand_pbox;
91 enddef;

```

U+5247  
tsuku.uni5247

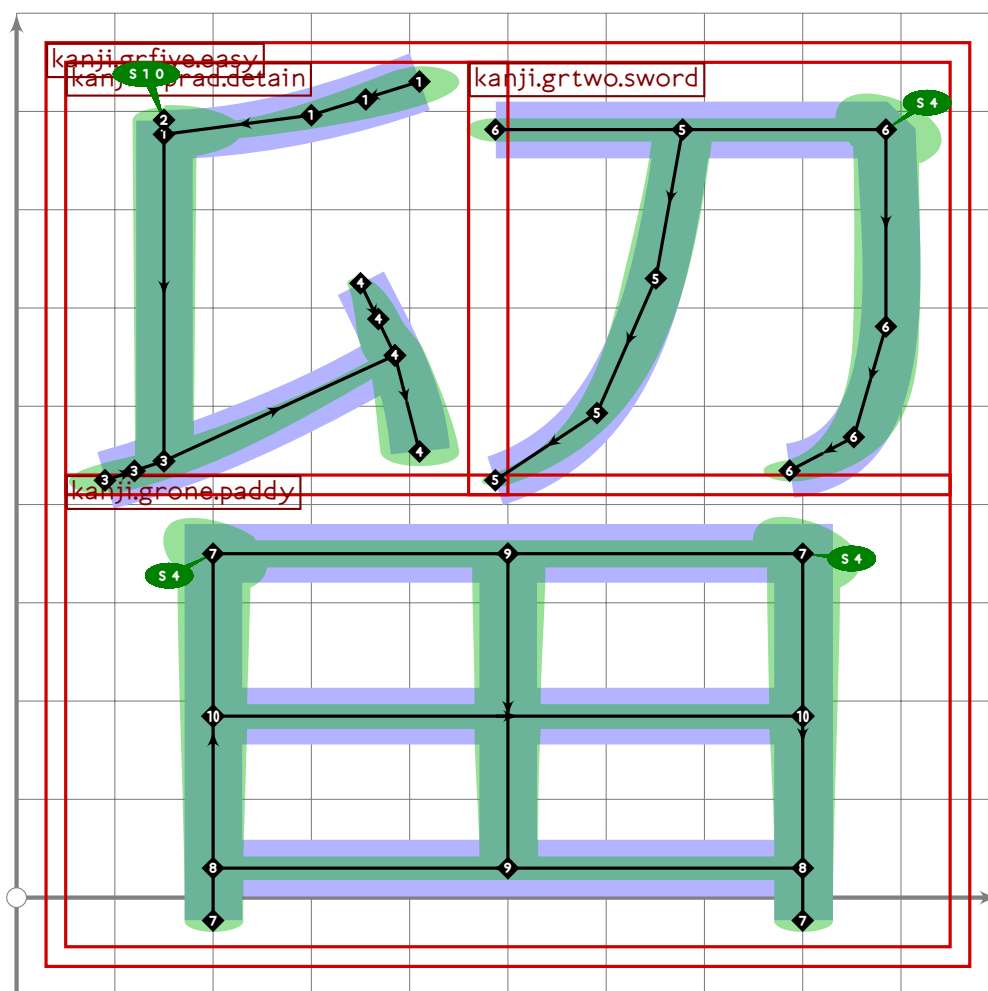


FIVE

```

92
93 vardef kanji.grfive.conform =
94   push_pbox_toexpand("kanji.grfive.conform");
95   build_kanji.level(build_kanji.lr(560,30)
96     (kanji.grone.shell)
97     (kanji.rightrad.sword));
98   expand_pbox;
99 enddef;

```



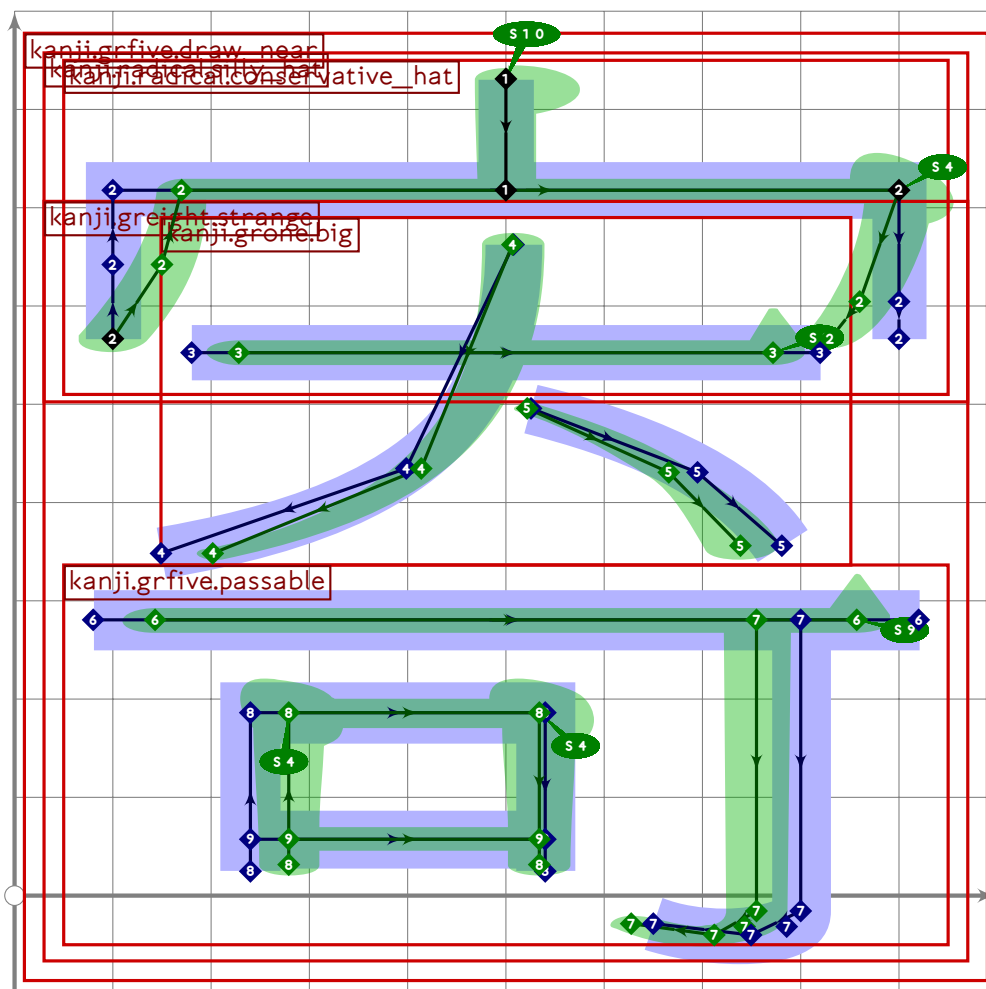
FIVE

```

100
101 vardef kanji.grfive.detain =
102   push_pbox_toexpand("kanji.grfive.easy");
103   build_kanji.level(build_kanji.tb(420,20)
104     (build_kanji.lr(480,40)
105       (kanji.toprad.detain)
106       (kanji.grtwo.sword))
107     (kanji.grone.paddy));
108   expand_pbox;
109 enddef;

```

U+5BC4  
tsuku.uni5BC4

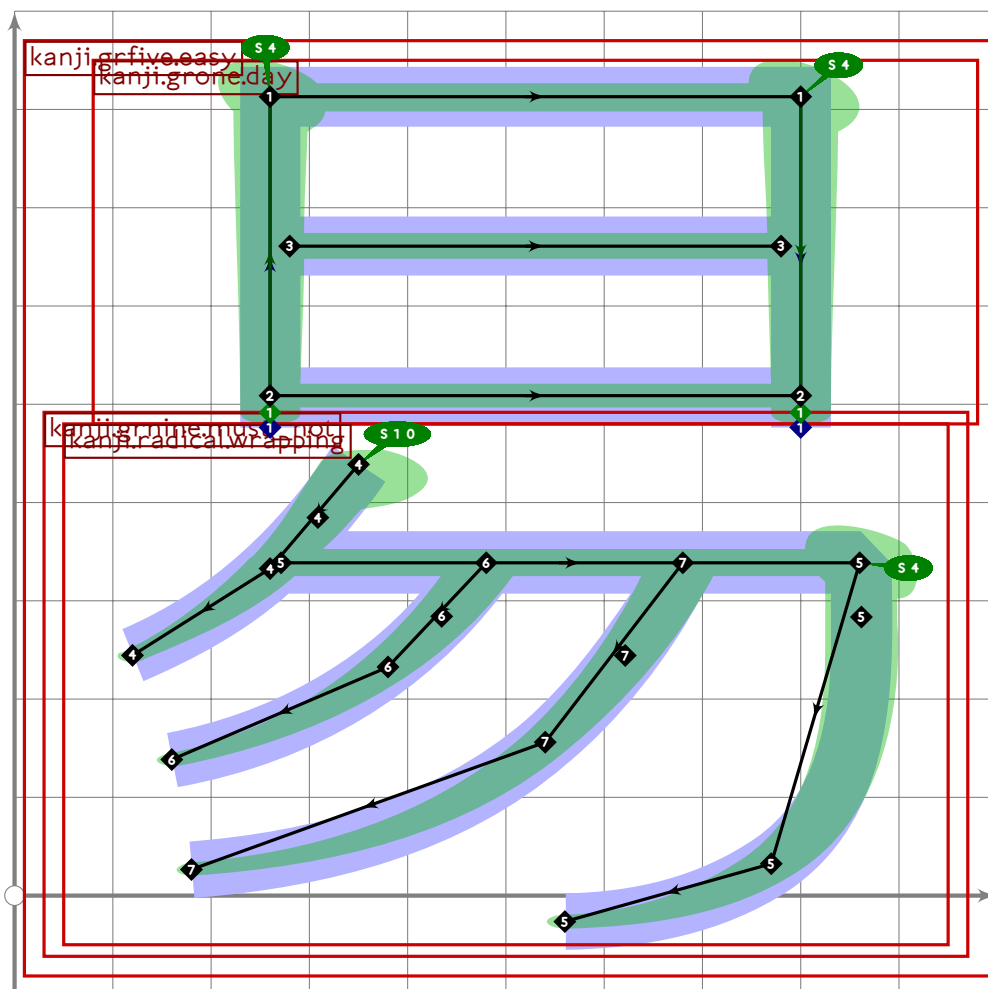


FIVE

```

110
111 vardef kanji.grfive.draw_near =
112   push_pbox_toexpand("kanji.grfive.draw_near");
113   build_kanji.tb(600,180)
114     (kanji.radical.silly_hat)
115     (build_kanji.sscale(xscaled (1-0.15*mincho))(kanji.greight.strange));
116   expand_pbox;
117 enddef;

```



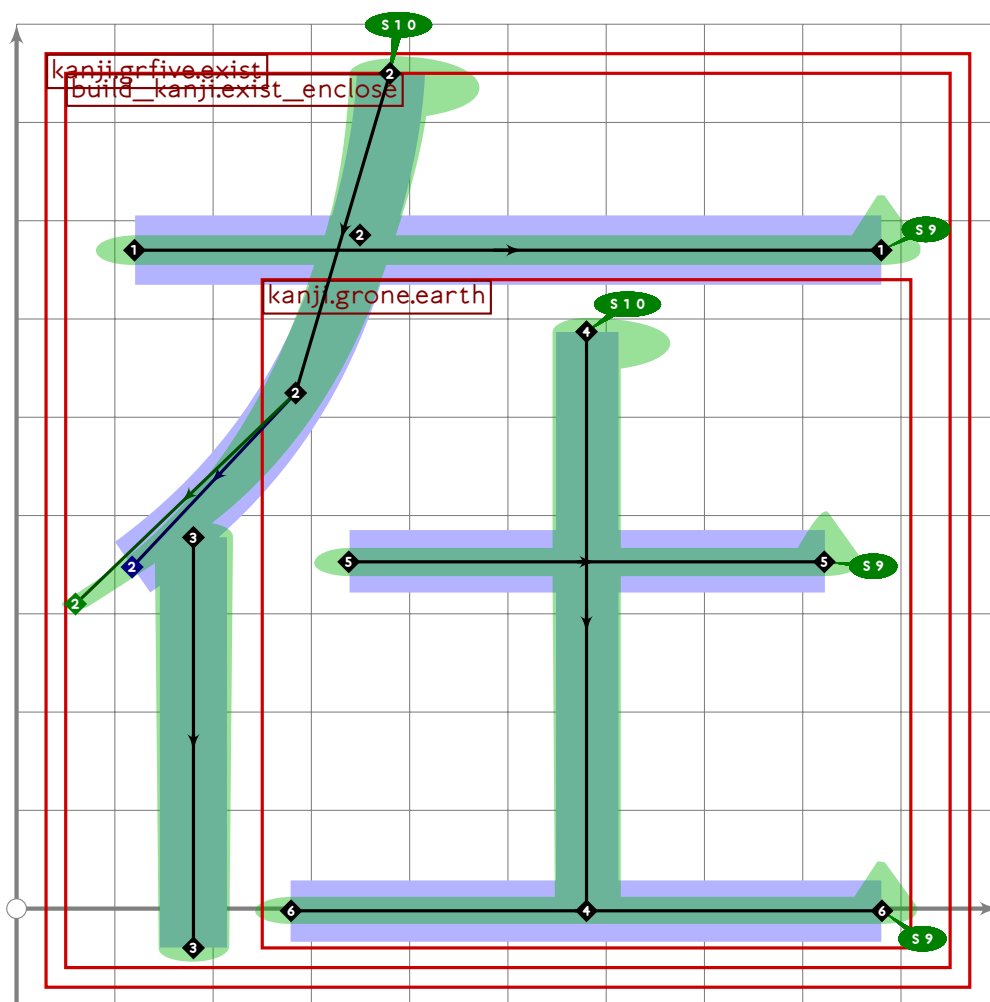
FIVE

```

118
119 vardef kanji.grfive.easy =
120   push_pbox_toexpand("kanji.grfive.easy");
121   build_kanji.tb(480,0)
122     (tsu_xform(identity shifted (30,0))(kanji.grone.day))
123     (kanji.grnine.must_not);
124   expand_pbox;
125 enddef;

```

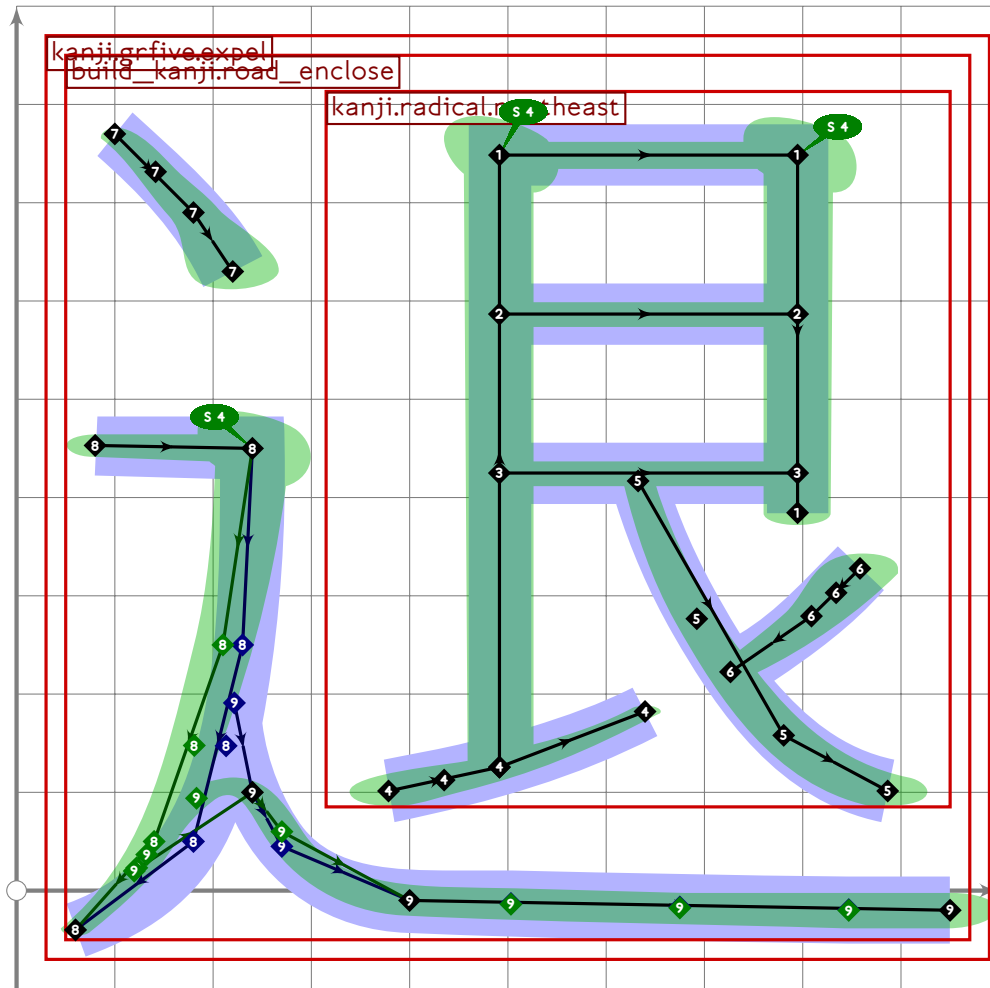
FIVE



```

126
127 vardef kanji.grfive.exist =
128   push_pbox_toexpand("kanji.grfive.exist");
129   build_kanji.exist_enclose(kanji.grone.earth);
130   expand_pbox;
131 enddef;

```



FIVE

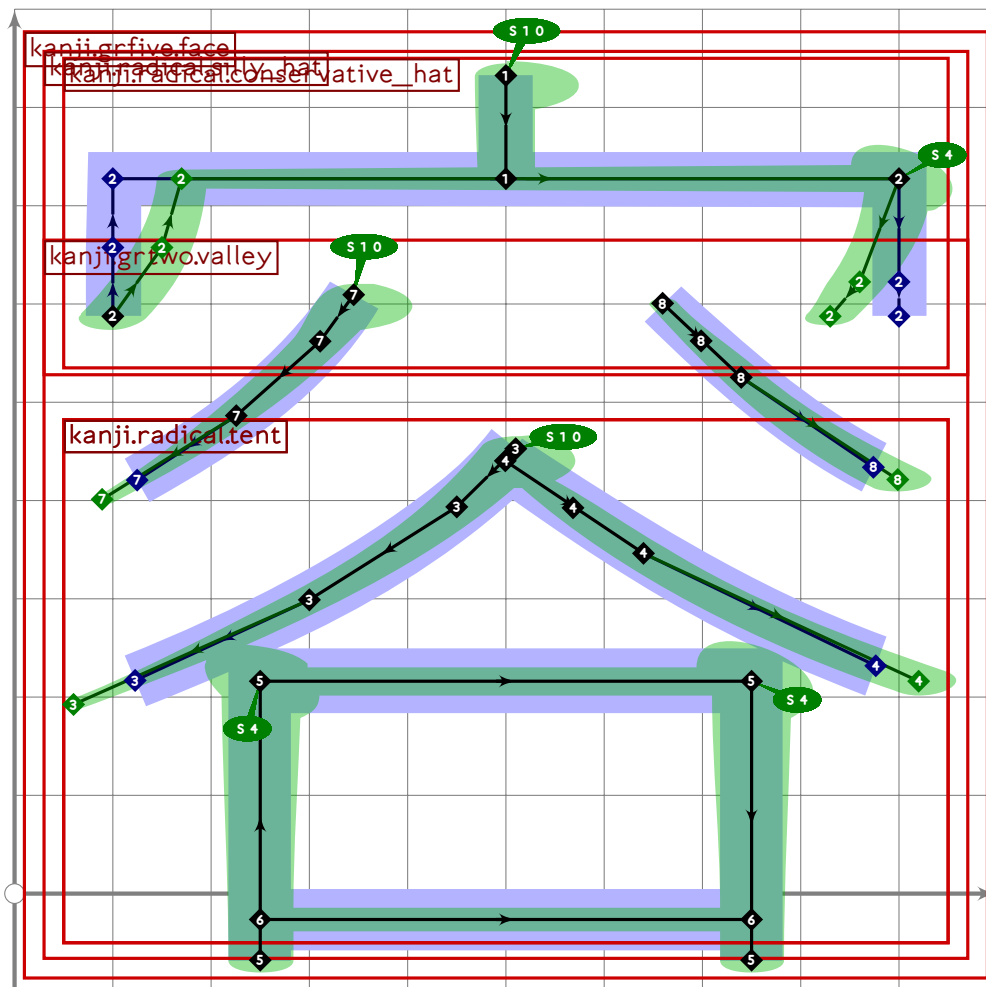
```

132
133 vardef kanji.grfive.expel =
134   push_pbox_toexpand("kanji.grfive.expel");
135   build_kanji.road_enclose(build_kanji.sscale(yscaled 0.91)
136     (kanji.radical.northeast));
137   expand_pbox;
138 enddef;

```



U+5BB9  
tsuku.uni5BB9

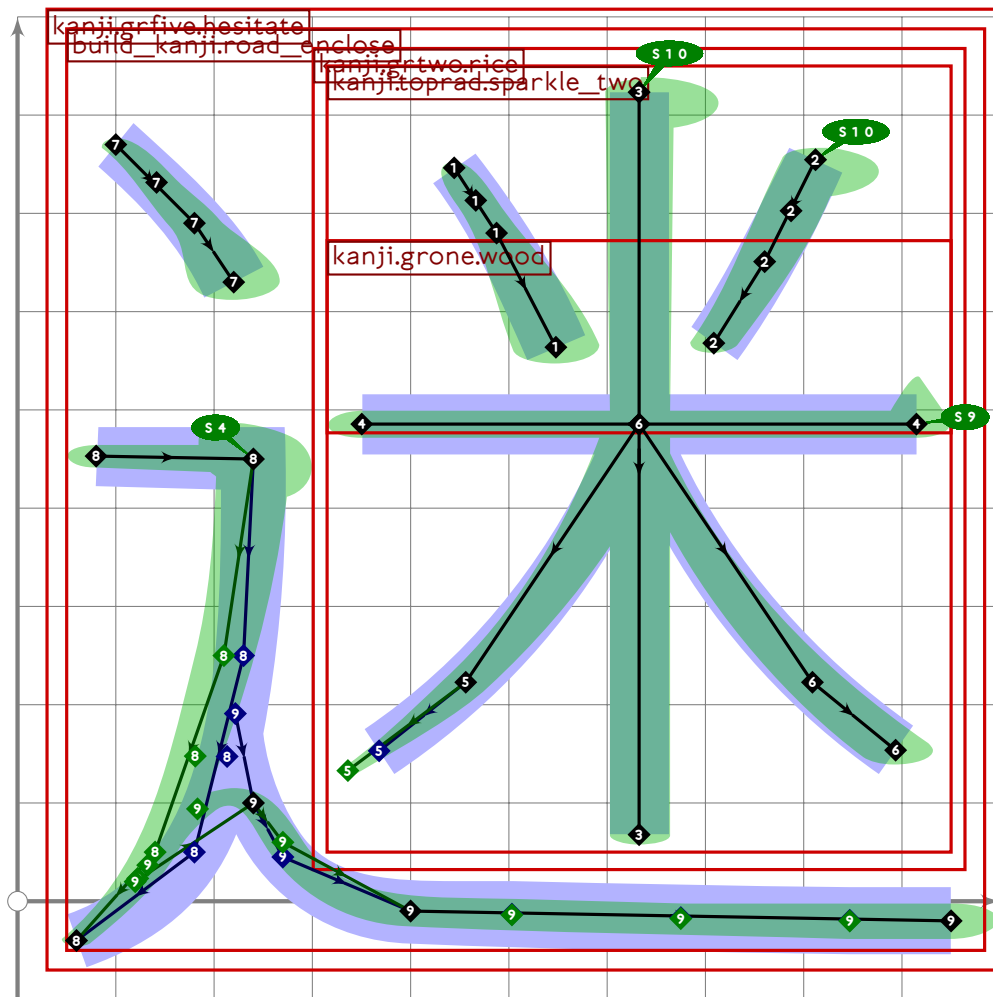


FIVE

```

139
140 vardef kanji.grfive.face =
141   push_pbox_toexpand("kanji.grfive.face");
142   build_kanji.tb(600,130)
143     (kanji.radical.silly_hat)
144     (kanji.grtwo.valley);
145   expand_pbox;
146 enddef;

```



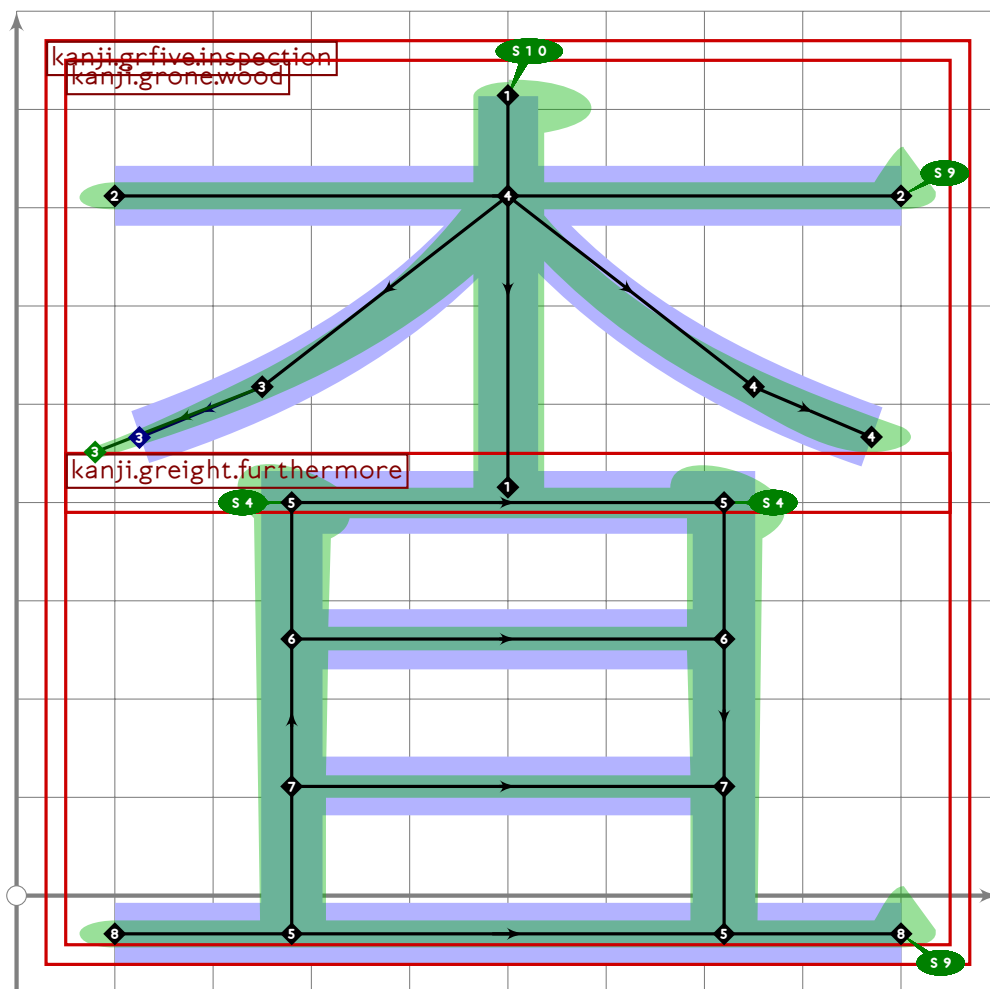
FIVE

```

147
148 vardef kanji.grfive.hesitate =
149   push_pbox_toexpand("kanji.grfive.hesitate");
150   build_kanji.road_enclose(kanji.grtwo.rice);
151   expand_pbox;
152 enddef;

```

U+67FB  
tsuku.uni67FB

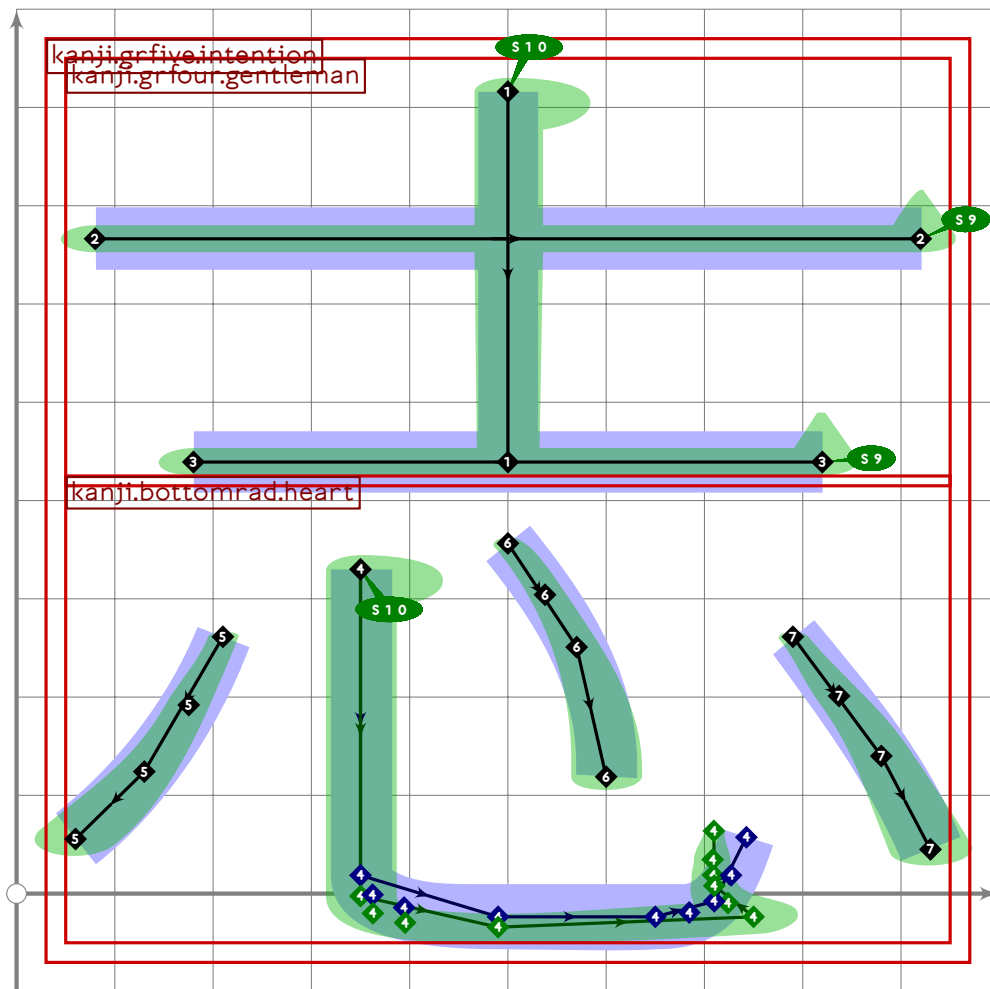


FIVE

```

153
154 vardef kanji.grfive.inspection =
155   push_pbox_toexpand("kanji.grfive.inspection");
156   build_kanji.level(build_kanji.tb(420,60)
157     (kanji.grone.wood)
158     (kanji.greight.furthermore));
159   expand_pbox;
160 enddef;

```



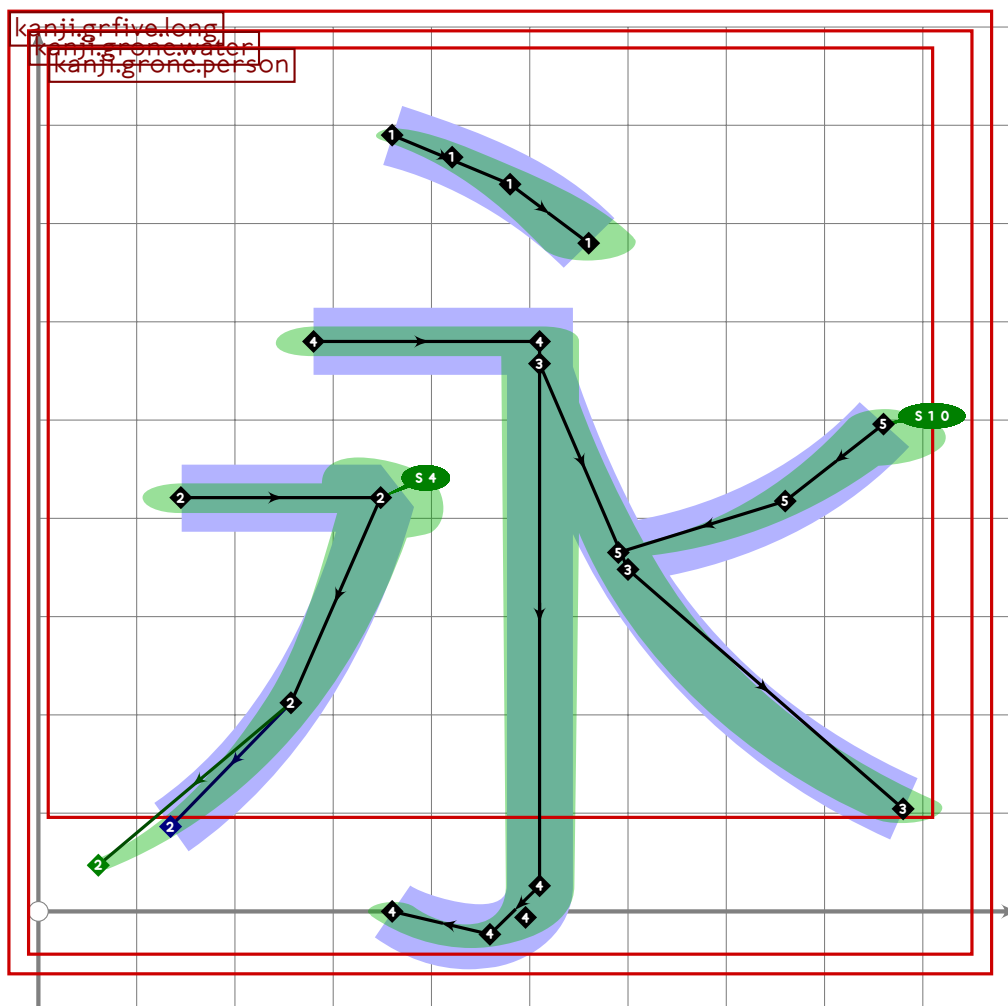
FIVE

```

161
162 vardef kanji.grfive.intention =
163   push_pbox_toexpand("kanji.grfive.intention");
164   build_kanji.level(build_kanji.tb(420,10)
165     (kanji.grfour.gentleman)
166     (kanji.bottomrad.heart));
167   expand_pbox;
168 enddef;

```

U+6C38  
tsuku.uni6C38

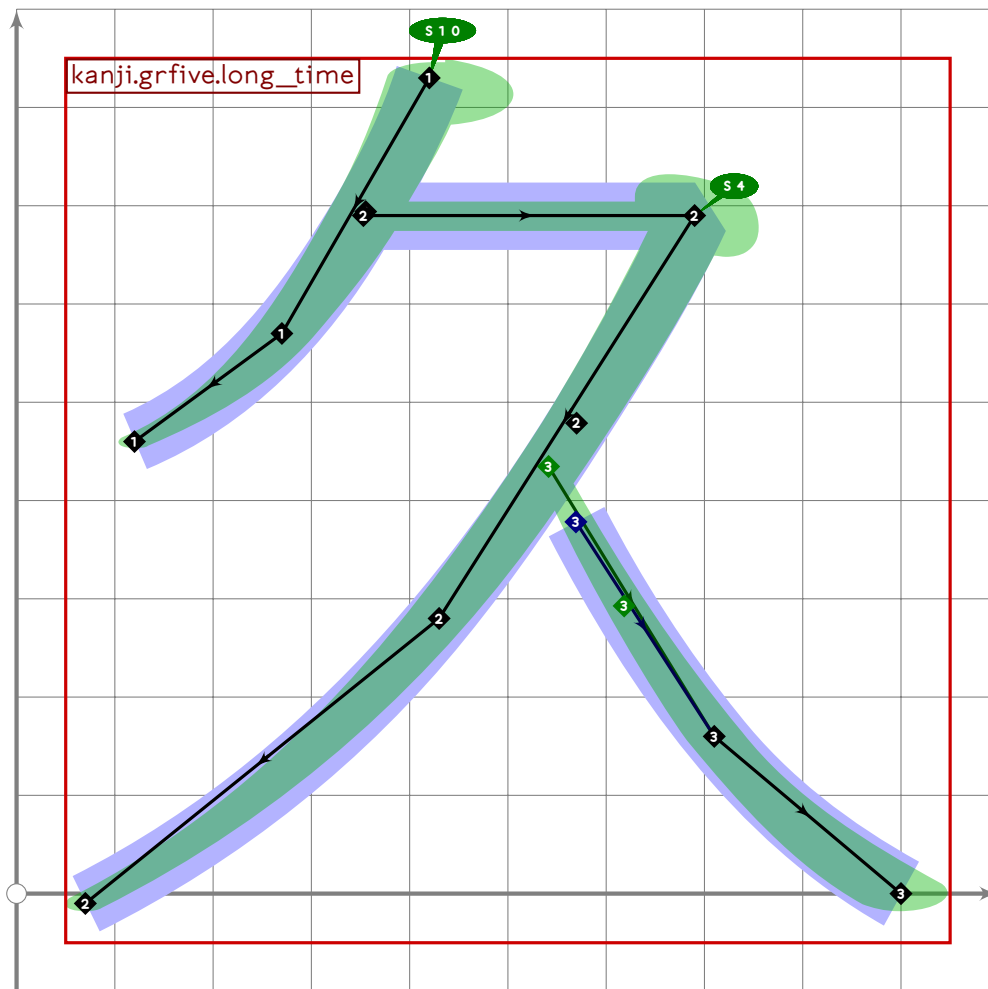


FIVE

```

169
170 vardef kanji.grfive.long =
171   push_pbox_toexpand("kanji.grfive.long");
172   push_stroke((360,790)..tension 1.2..(480,740)..(560,680),
173     (1,1)–(1.5,1.5)–(1.8,1.8));
174   tsu_xform(identity yscaled 0.87)(kanji.grnewwater);
175   replace_strokep(-3)(oldp shifted (0,-40));
176   replace_strokep(-1)((280,580)–(510,580)–(subpath (1,infinity) of oldp));
177   replace_strokeq(-1)((1.6,1.6)–oldq);
178   set_boserif(-1,0,whatever);
179   set_botip(-1,1,1);
180   expand_pbox;
181 enddef;

```



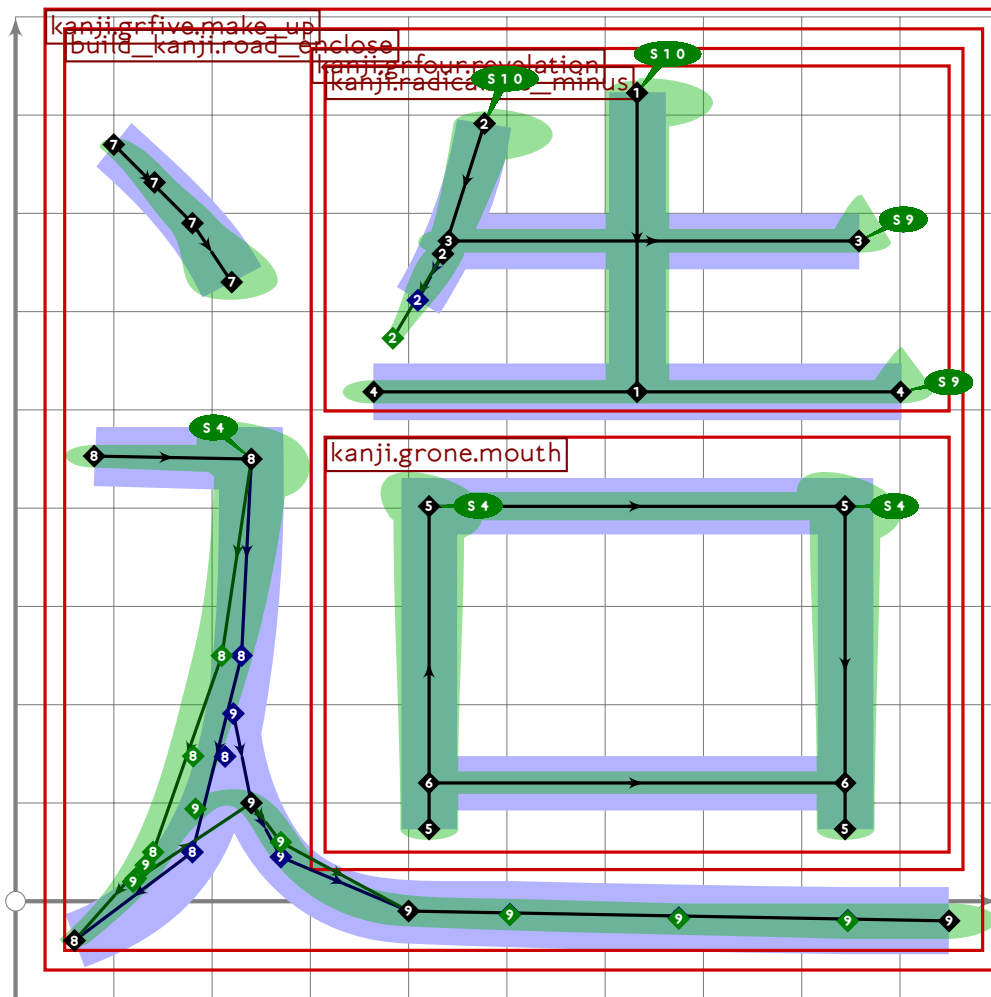
FIVE

```

182
183 vardef kanji.grfive.long_time =
184   push_pbox_toexpand("kanji.grfive.long_time");
185   push_stroke((420,830)..tension 1.2..(270,570)..(120,460),
186     (1.7,1.7)-(1.4,1.4)-(1,1));
187   set_boserif(0,0,10);
188   push_stroke((get_stroke(0) intersectionpoint ((0,690)-(1000,690)))-(
189     (690,690)..tension 1.2..(430,280)..(70,-10),
190     (1.5,1.5)-(1.6,1.6)-(1.4,1.4)-(1.1,1.1));
191   set_boserif(0,14);
192   set_botip(0,1,0);
193   push_stroke((point 1.60 of get_stroke(0))..tension 1.2..
194     (710,160)..(900,0),
195     (0.92,0.92)-(1.3,1.3)-(1.8,1.8));
196   expand_pbox;
197 enddef;

```

U+9020  
tsuku.uni9020

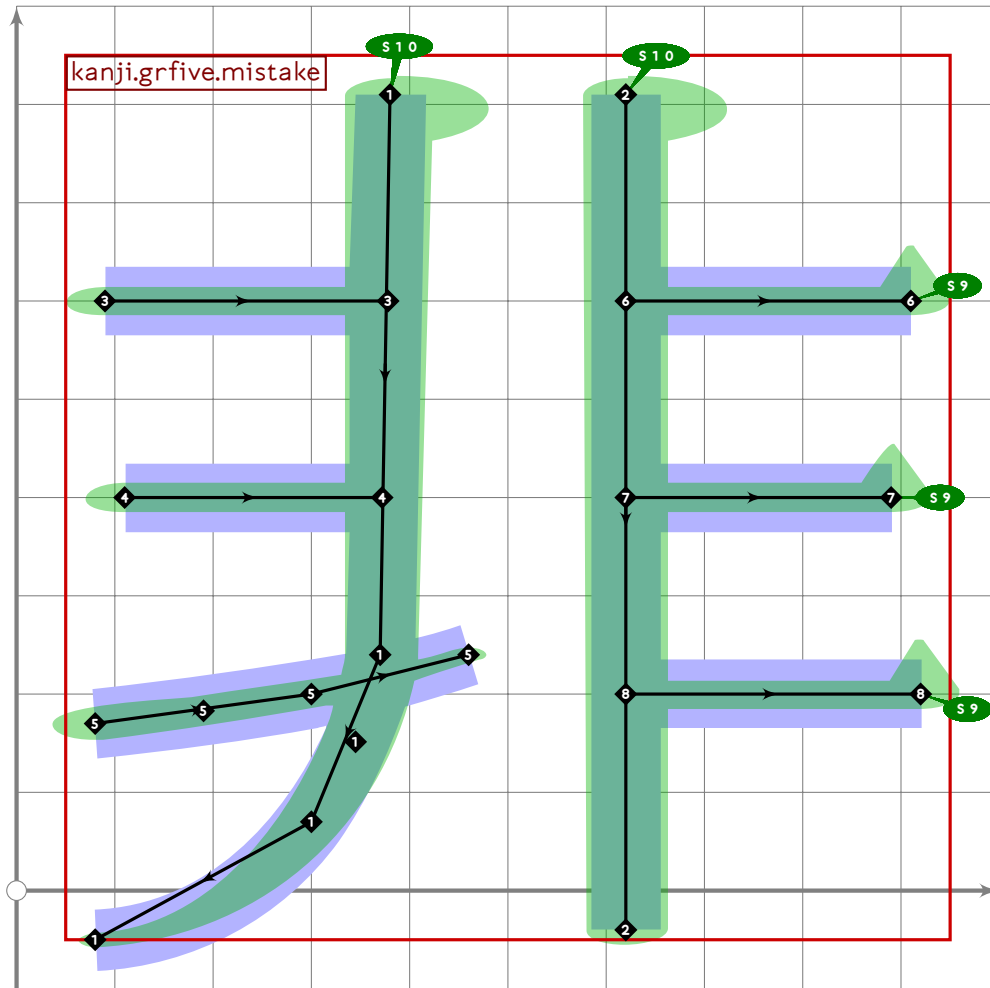


FIVE

```

198
199 vardef kanji.grfive.make_up =
200   push_pbox_toexpand("kanji.grfive.make_up");
201   build_kanji.road_enclose(kanji.grfour.revelation);
202   expand_pbox;
203 enddef;

```



FIVE

```

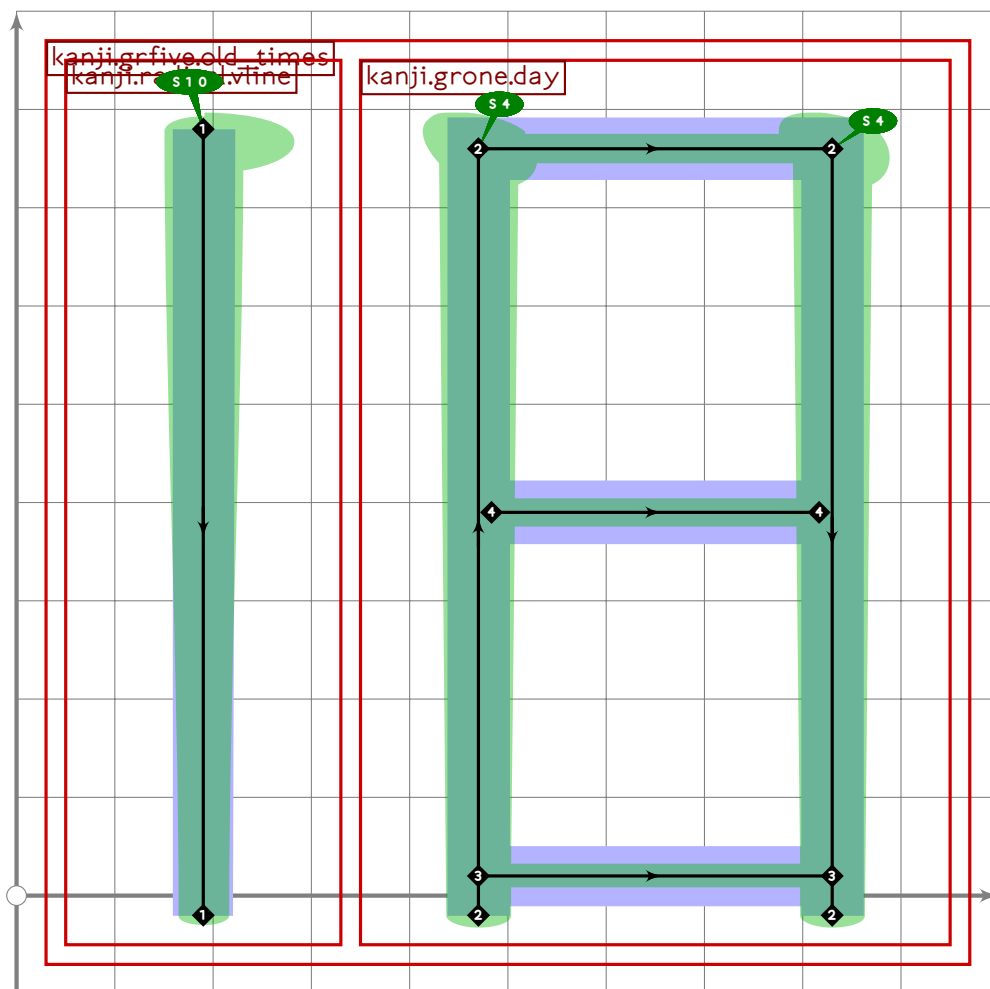
204
205 vardef kanji.grfive.mistake =
206   push_pbox_toexpand("kanji.grfive.mistake");
207   push_stroke((380,810)–(370,240){dir 266}.tension 1.2..(300,70)..(80,-50),
208     (1,7,1,7)–(1,55,1,55)–(1,44,1,44)–(1,1));
209   set_boserif(0,0,10);
210   push_stroke((620,810)–(620,-40),(1,7,1,7)–(1,6,1,6));
211   set_boserif(0,0,10);
212   push_stroke((90,600)–(378,600),(1,6,1,6)–(1,6,1,6));
213   push_stroke((110,400)–(372,400),(1,6,1,6)–(1,6,1,6));
214   push_stroke((80,170)..tension 1.2..(300,200)..(460,240),
215     (1,7,1,7)–(1,5,1,5)–(1,1));
216   push_stroke((620,600)–(910,600),(1,6,1,6)–(1,6,1,6));
217   set_boserif(0,1,9);
218   push_stroke((620,400)–(890,400),(1,6,1,6)–(1,6,1,6));
219   set_boserif(0,1,9);
220   push_stroke((620,200)–(920,200),(1,6,1,6)–(1,6,1,6));
221   set_boserif(0,1,9);
222   expand_pbox;
223 enddef;

```



U+65E7  
tsuku.uni65E7

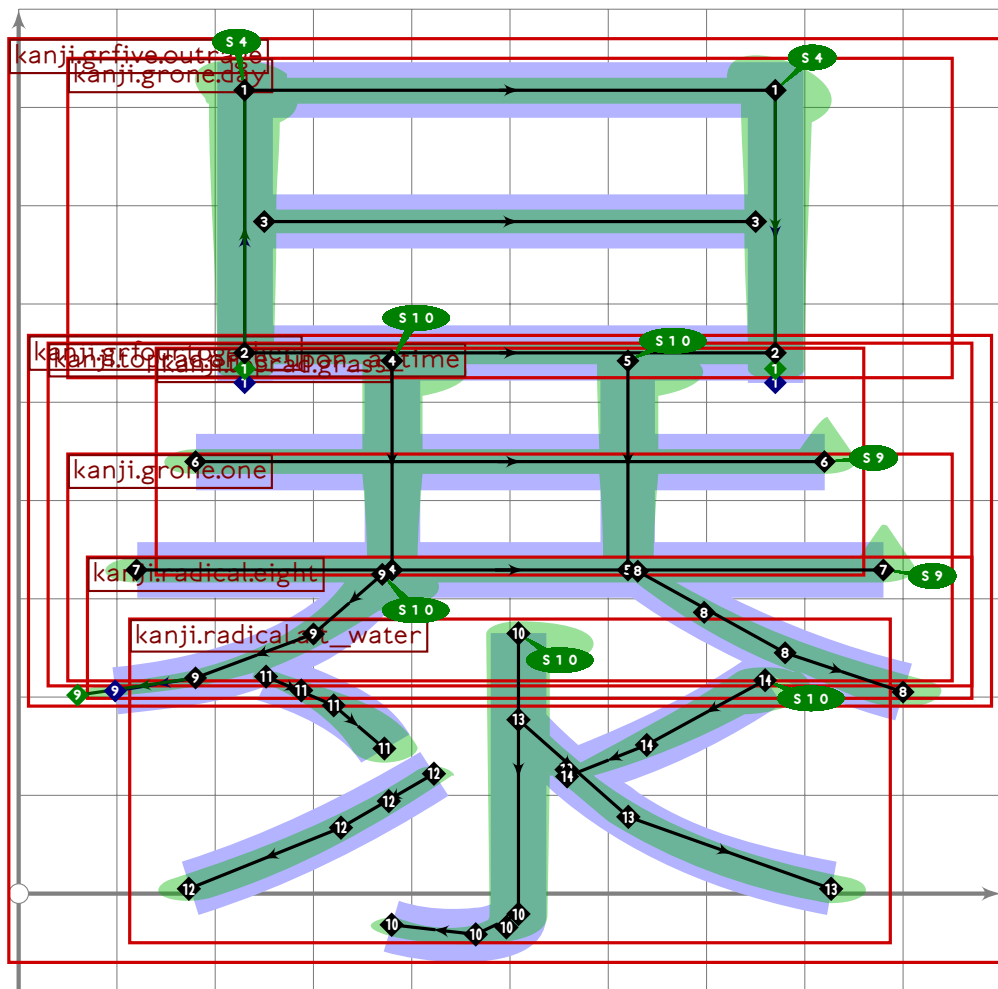
FIVE



```

224
225 vardef kanji.grfive.old_times =
226   push_pbox_toexpand("kanji.grfive.old_times");
227   build_kanji.level(build_kanji.lr(340,-20)
228     (kanji.radical.vline)
229     (kanji.grone.day));
230   expand_pbox;
231 enddef;

```



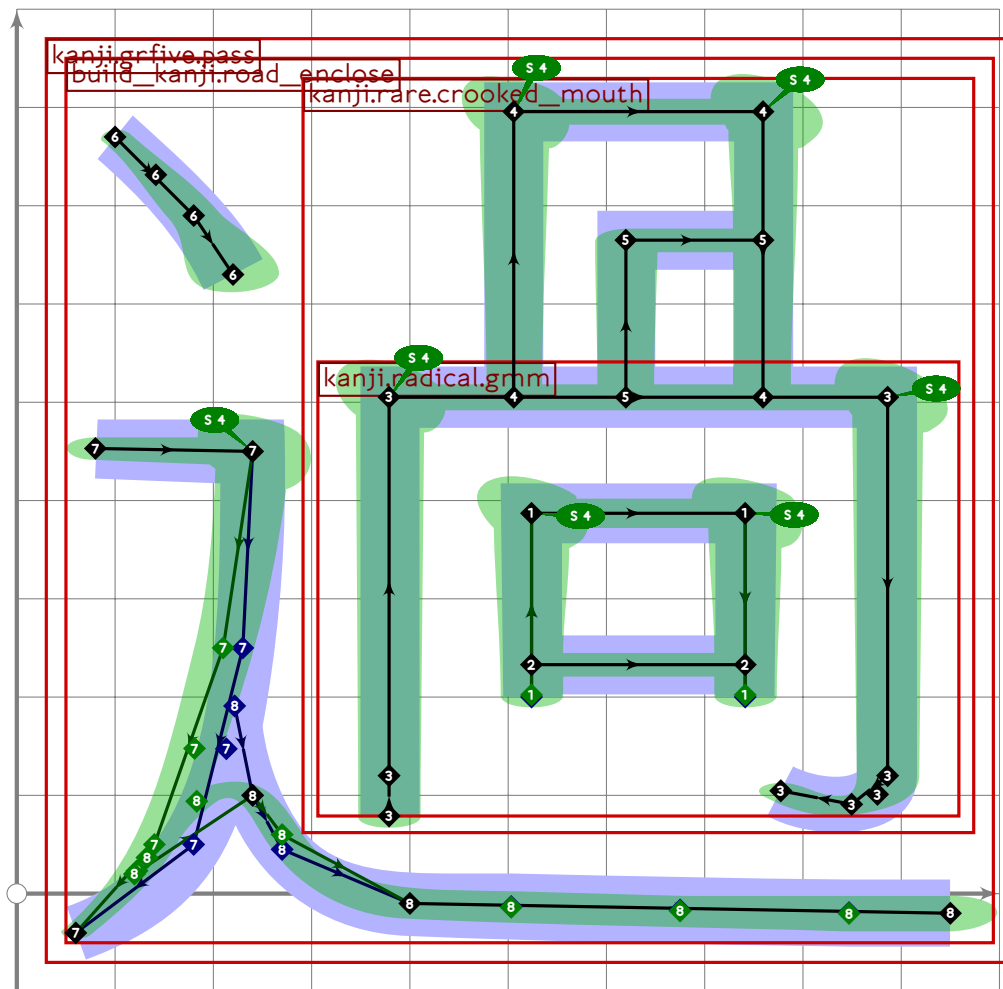
FIVE

```

232
233 vardef kanji.grfive.outrage =
234   push_pbox_toexpand("kanji.grfive.outrage");
235   build_kanji.level(build_kanji.tb(540,30)
236     (kanji.grone.day)
237     (build_kanji.tb(380,120)
238       (kanji.grfour.together)
239       (build_kanji.sscale(xscaled 0.86)(kanji.radical.alt_water);
240         replace_stroke(-3)(oldp shifted (70,90));
241         replace_stroke(0)(oldp shifted (-50,90))));
242   expand_pbox;
243 enddef;

```

U+904E  
tsuku.uni904E

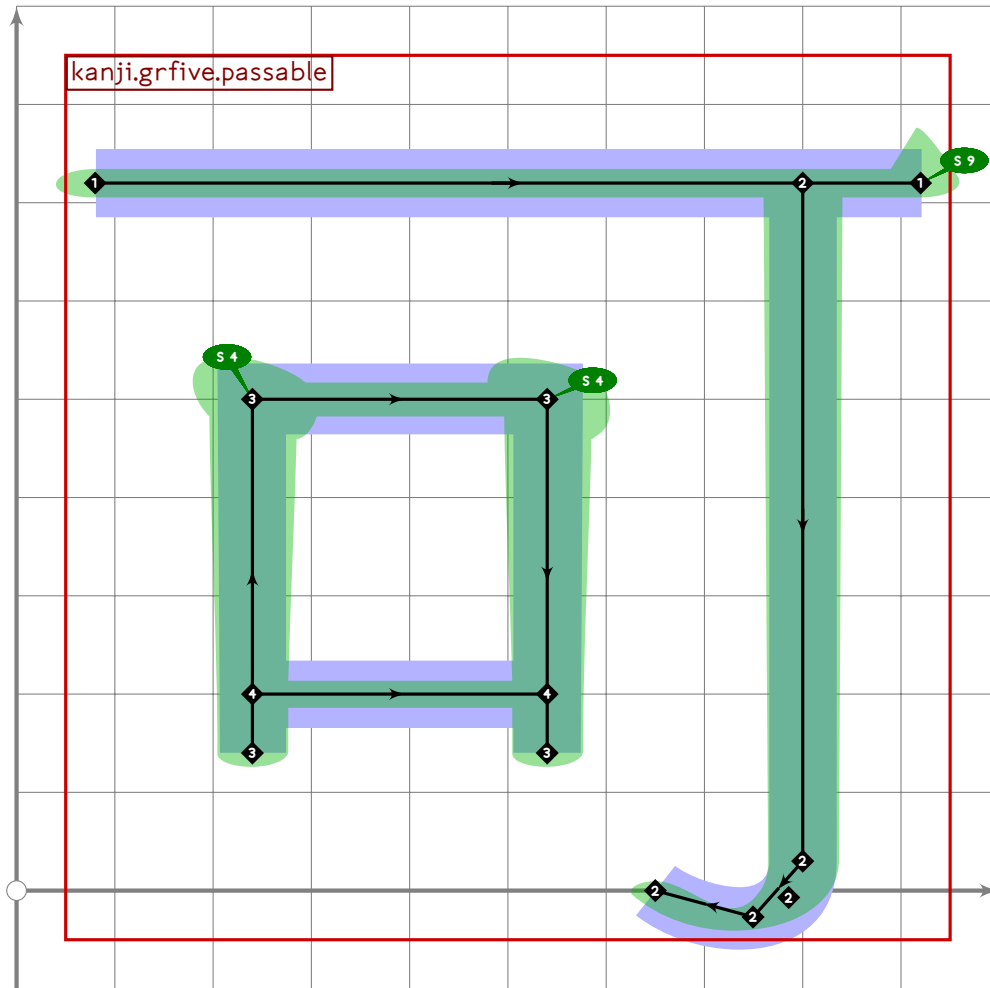


FIVE

```

244
245 vardef kanji.grfive.pass =
246   push_pbox_toexpand("kanji.grfive.pass");
247   build_kanji.road_enclose(build_kanji.sscale
248     (xyscaled (1.07,0.95))
249     (kanji.rare.crooked_mouth));
250   expand_pbox;
251 enddef;

```



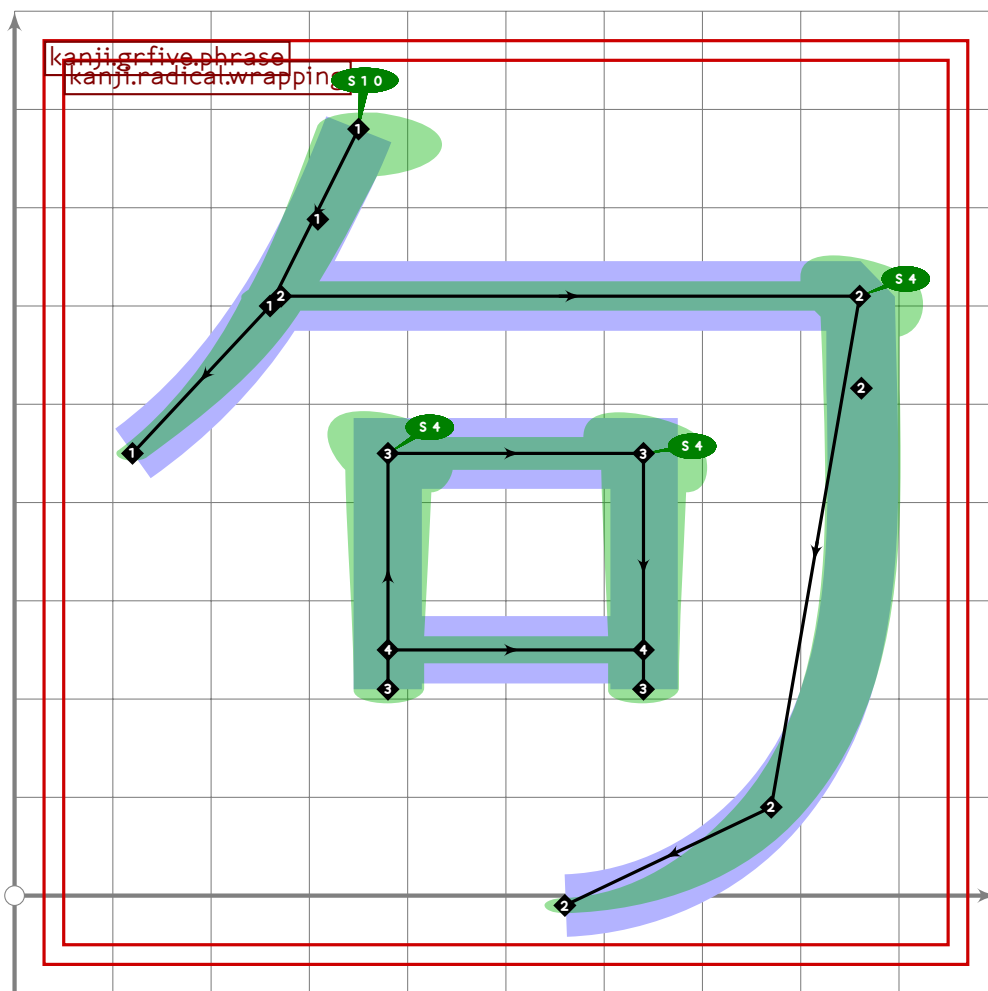
FIVE

```

252
253 vardef kanji.grfive.passable =
254   push_pbox_toexpand("kanji.grfive.passable");
255   push_stroke((80,720)-(920,720),
256     (1.6,1.6)-(1.6,1.6));
257   set_boserif(0,1,9);
258   push_stroke((800,720),
259     (1.6,1.6));
260   build_kanji.add_jtail(0);
261   build_kanji.box((240,500),(540,200));
262   expand_pbox;
263 enddef;

```

U+53E5  
tsuku.uni53E5

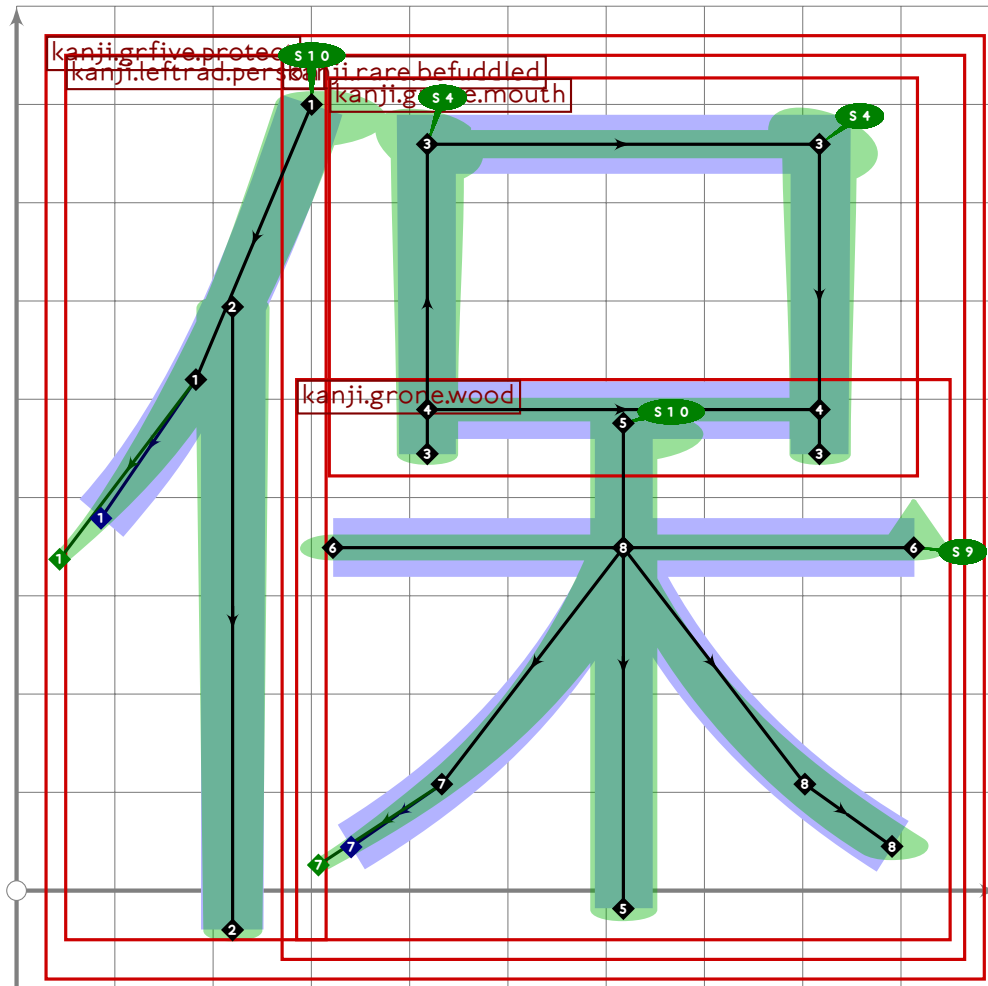


FIVE

```

264
265 vardef kanji.grfive.phrase =
266   push_pbox_toexpand("kanji.grfive.phrase");
267   kanji.radical.wrapping;
268   build_kanji.box((380,450),(640,250));
269   expand_pbox;
270 enddef;

```

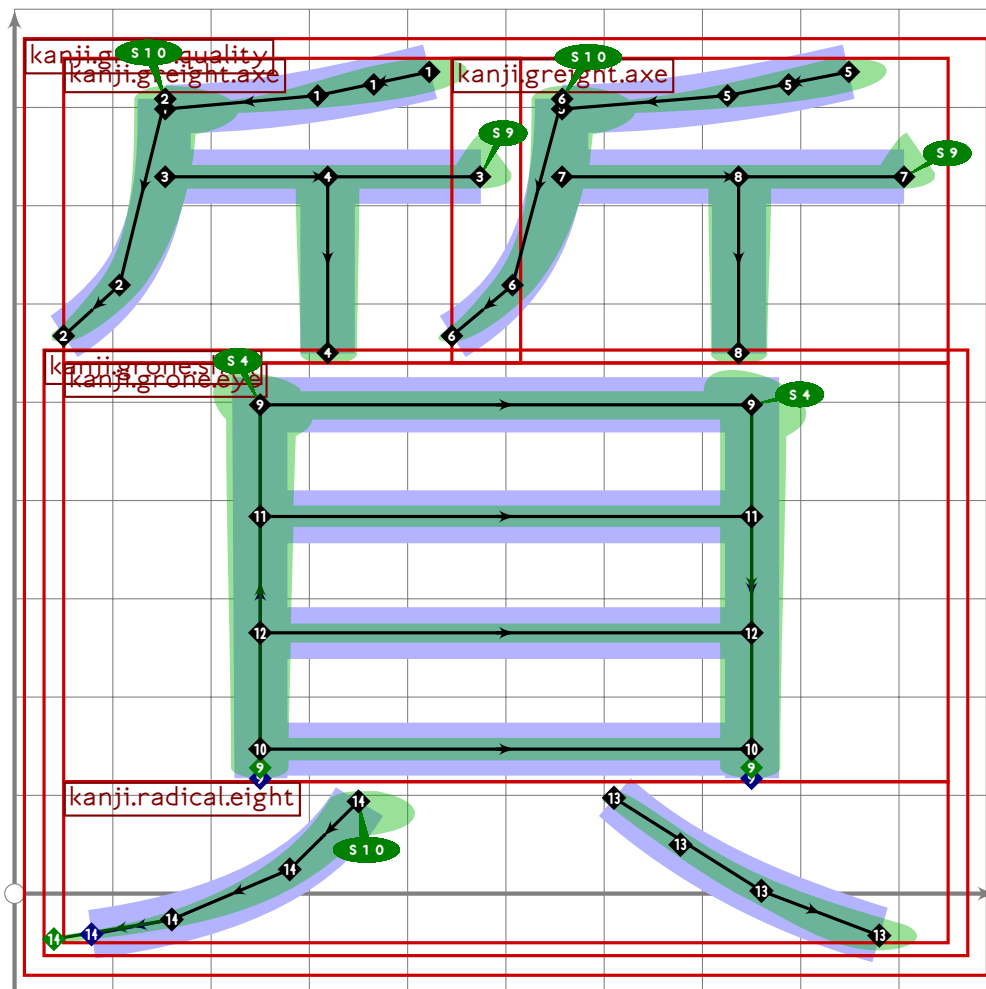


FIVE

```

271
272 vardef kanji.grfive.protect =
273   push_pbox_toexpand("kanji.grfive.protect");
274   build_kanji.lr(300,30)
275     (kanji.leftrad.person)
276     (kanji.rare.befuddled);
277   expand_pbox;
278 enddef;

```

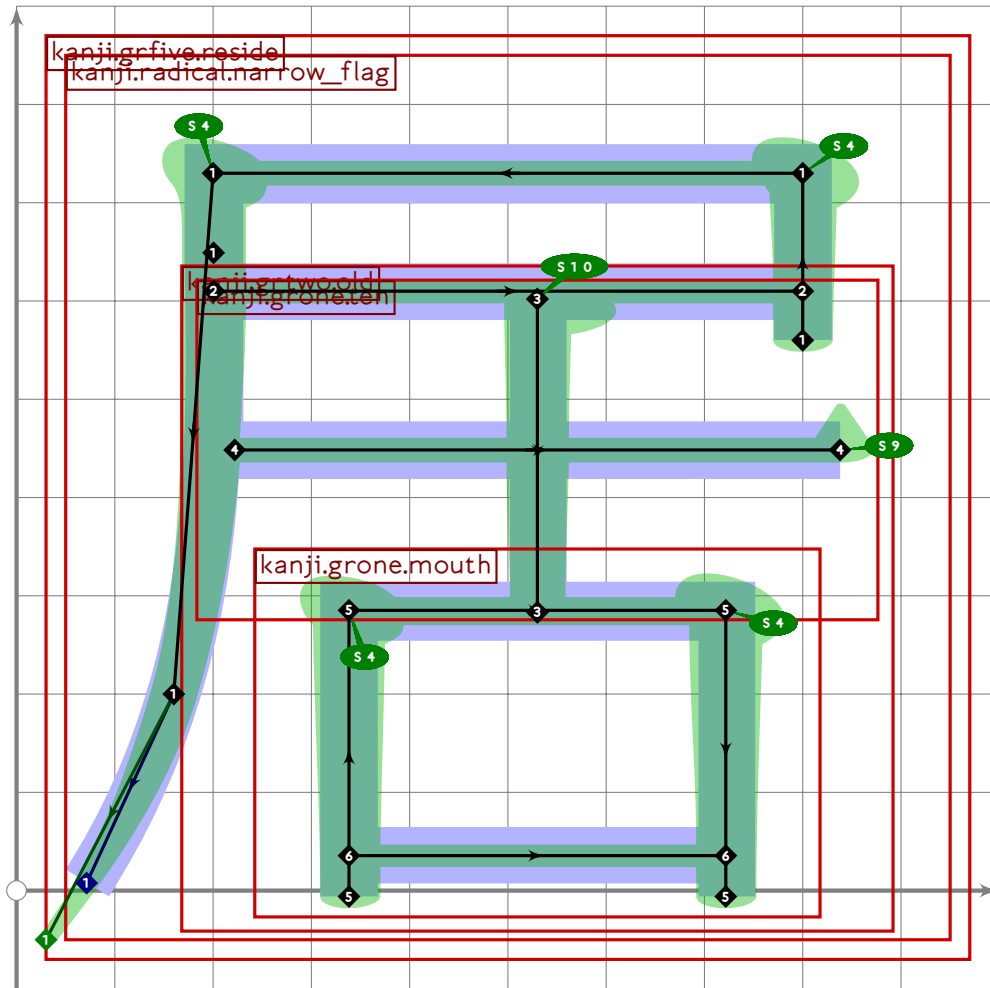


FIVE

```

279
280 vardef kanji.grfive.quality =
281   push_pbox_toexpand("kanji.grfive.quality");
282   build_kanji.level(build_kanji.tb(540,0)
283     (build_kanji.lr(480,70)
284       (kanji.grfive.axe)
285       (kanji.grfive.axe)
286       (kanji.grfive.shell));
287   expand_pbox;
288 enddef;

```



FIVE

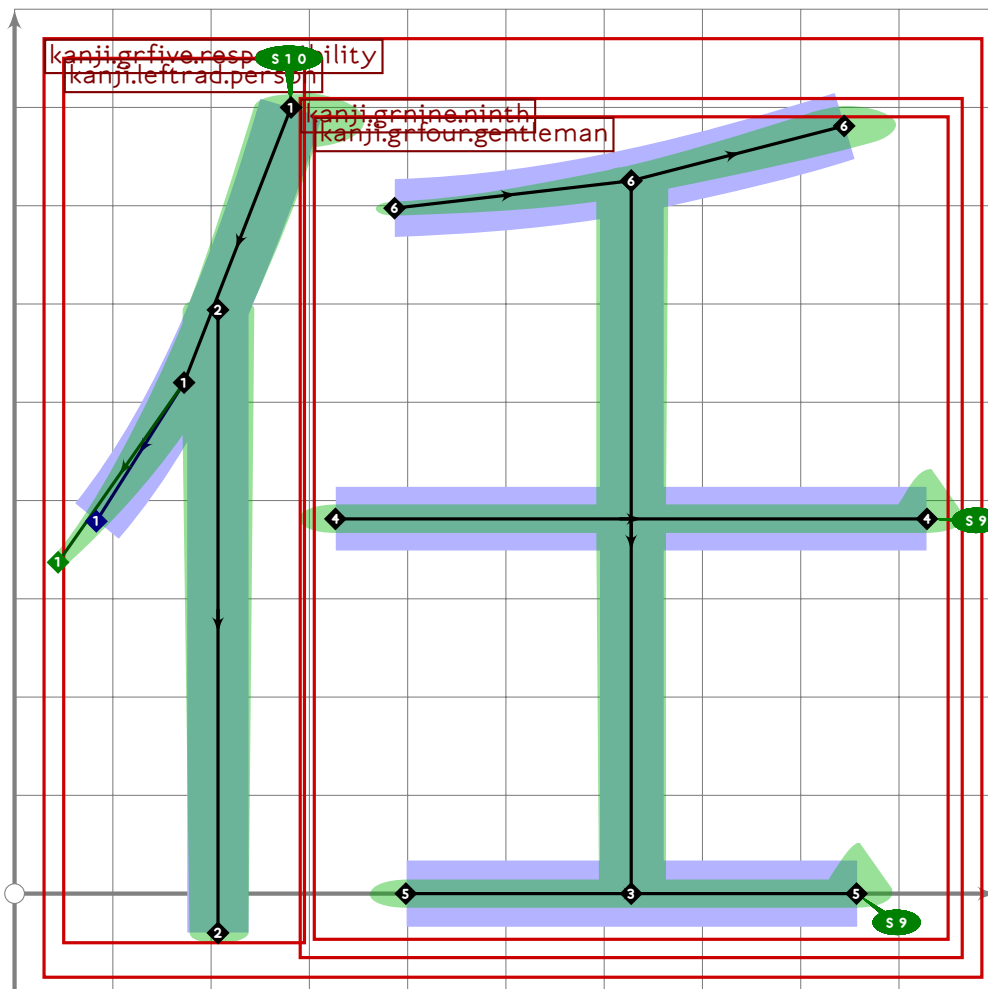
```

289
290 vardef kanji.grfive.reside =
291   push_pbox_toexpand("kanji.grfive.reside");
292   build_kanji.level(
293     kanji.radical.narrow_flag;
294     build_kanji.sscale(xyscaled (0.77,0.72) shifted (30,100))
295     (kanji.grtwo.old));
296   expand_pbox;
297 enddef;

```



U+4EFB  
tsuku.uni4EFB

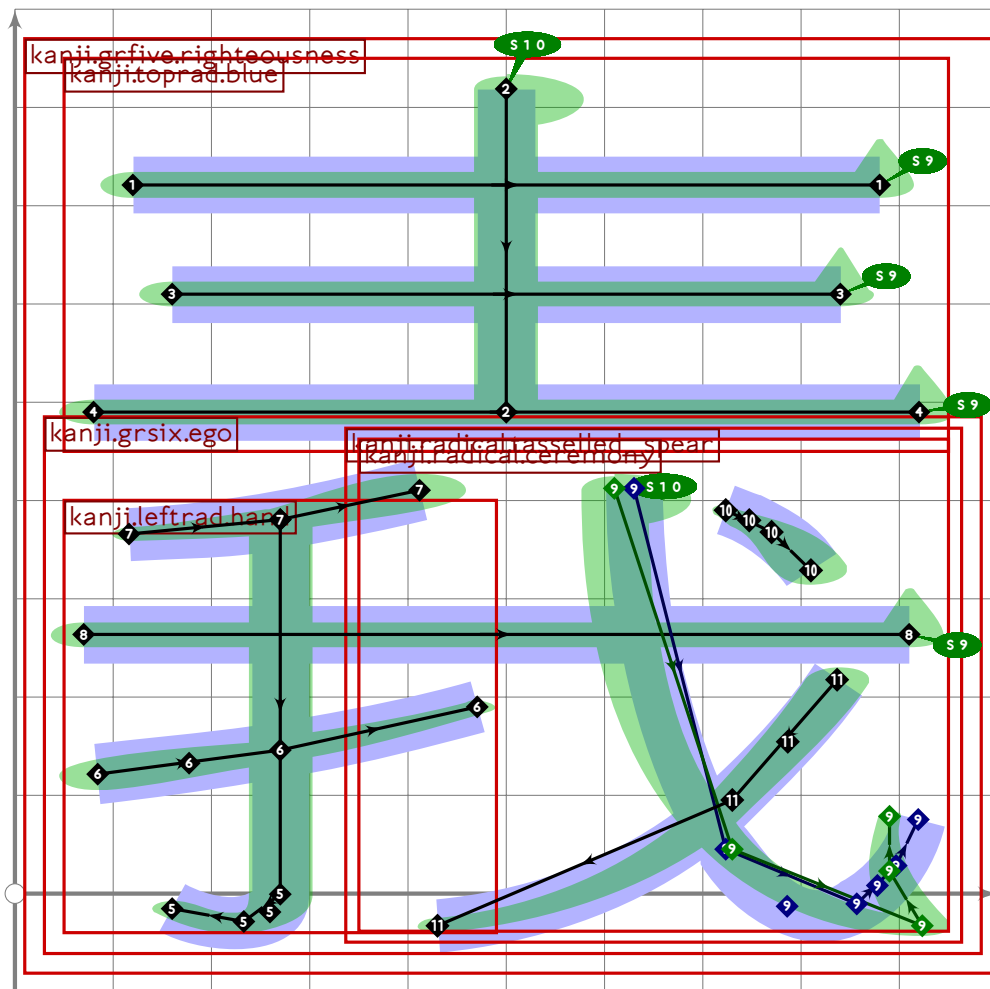


FIVE

```

298
299 vardef kanji.grfive.responsibility =
300   push_pbox_toexpand("kanji.grfive.responsibility");
301   build_kanji.lr(300,-10)
302     (kanji.leftrad.person)
303     (tsu_xform(identity yscaled 0.93)(kanji.grnine.ninth));
304   expand_pbox;
305 enddef;

```



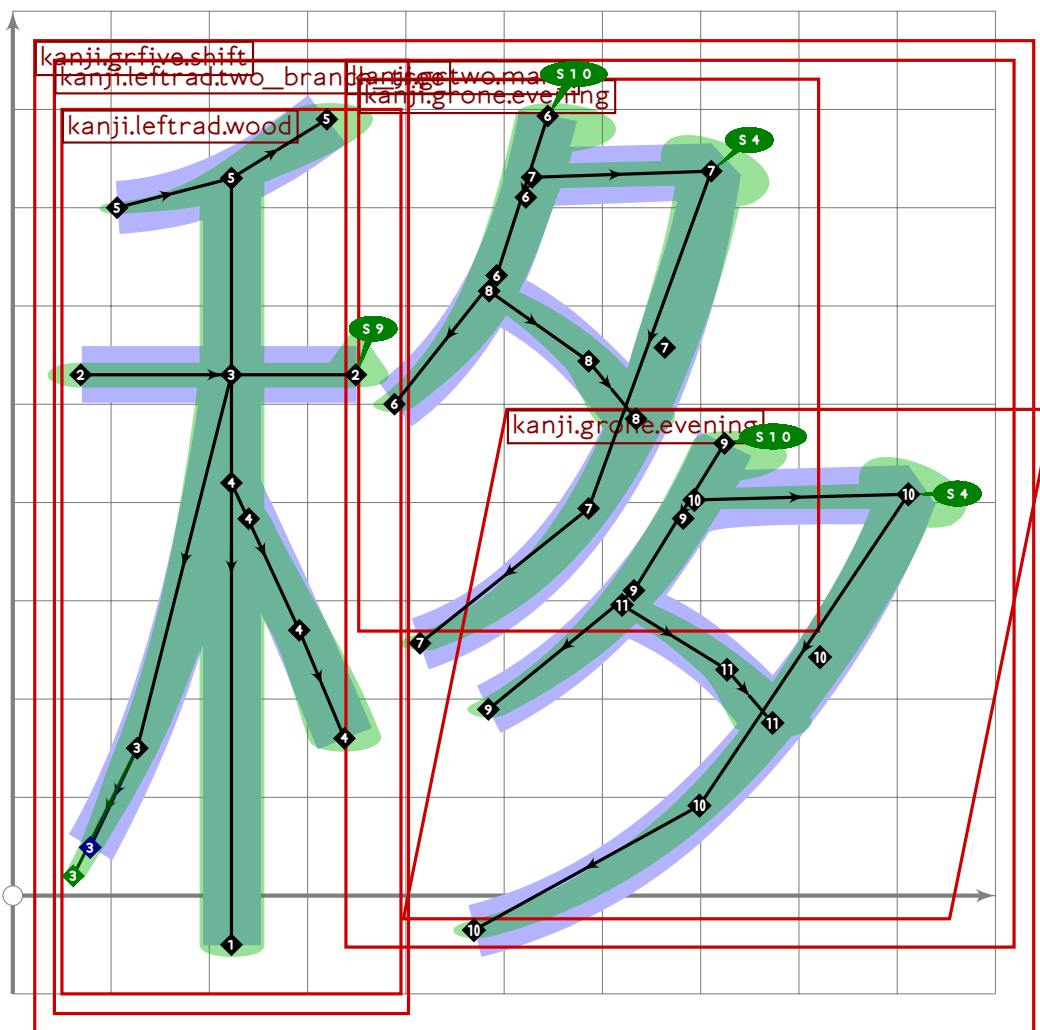
FIVE

```

306
307 vardef kanji.grfive.righteousness =
308   push_pbox_toexpand("kanji.grfive.righteousness");
309   build_kanji.level(build_kanji.tb(460,20)
310     (kanji.toprad.blue)
311     (kanji.grsix.ego));
312   expand_pbox;
313 enddef;

```

U+79FB  
tsuku.uni79FB

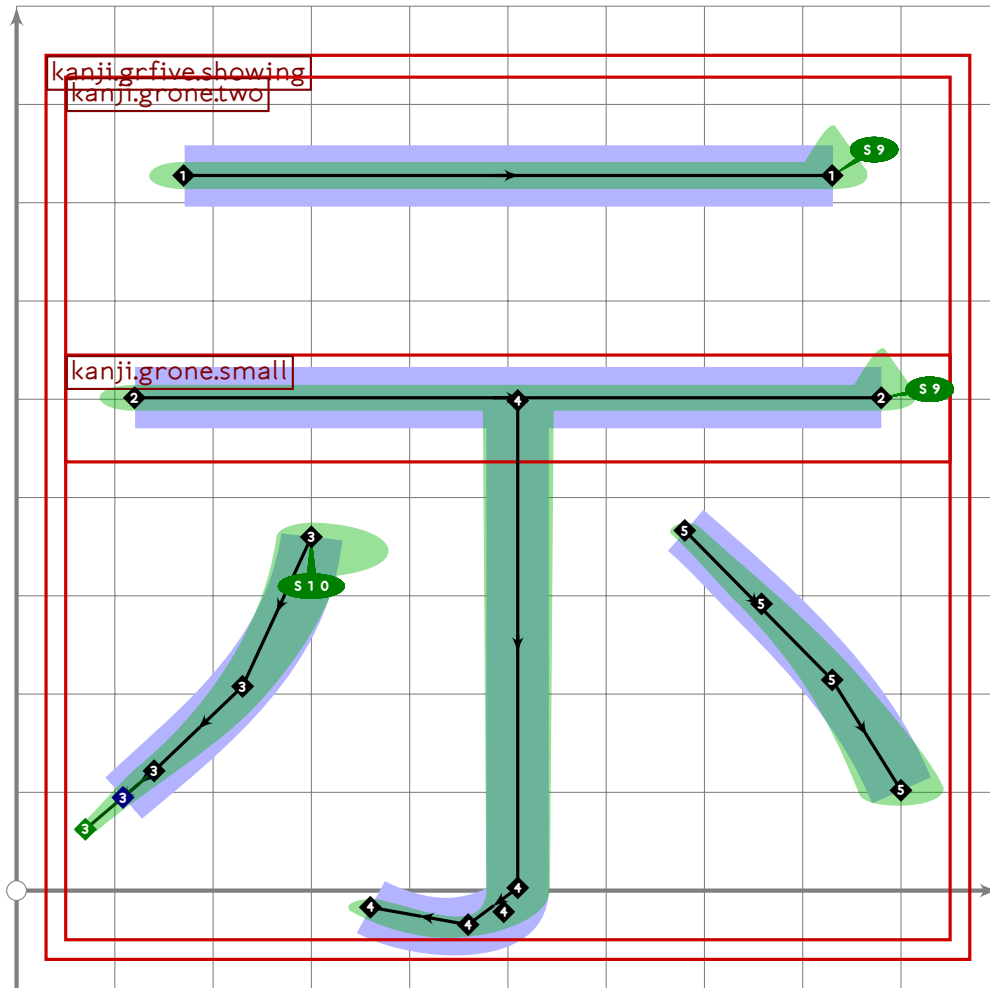


FIVE

```

314
315 vardef kanji.grfive.shift =
316   push_pbox_toexpand("kanji.grfive.shift");
317   build_kanji.level(build_kanji.lr(380,30)
318     (kanji.leftrad.two_branch_tree)
319     (build_kanji.sscale(yscaled 0.96 shifted (0,-20))(kanji.grtwo.many)));
320   expand_pbox;
321 enddef;

```

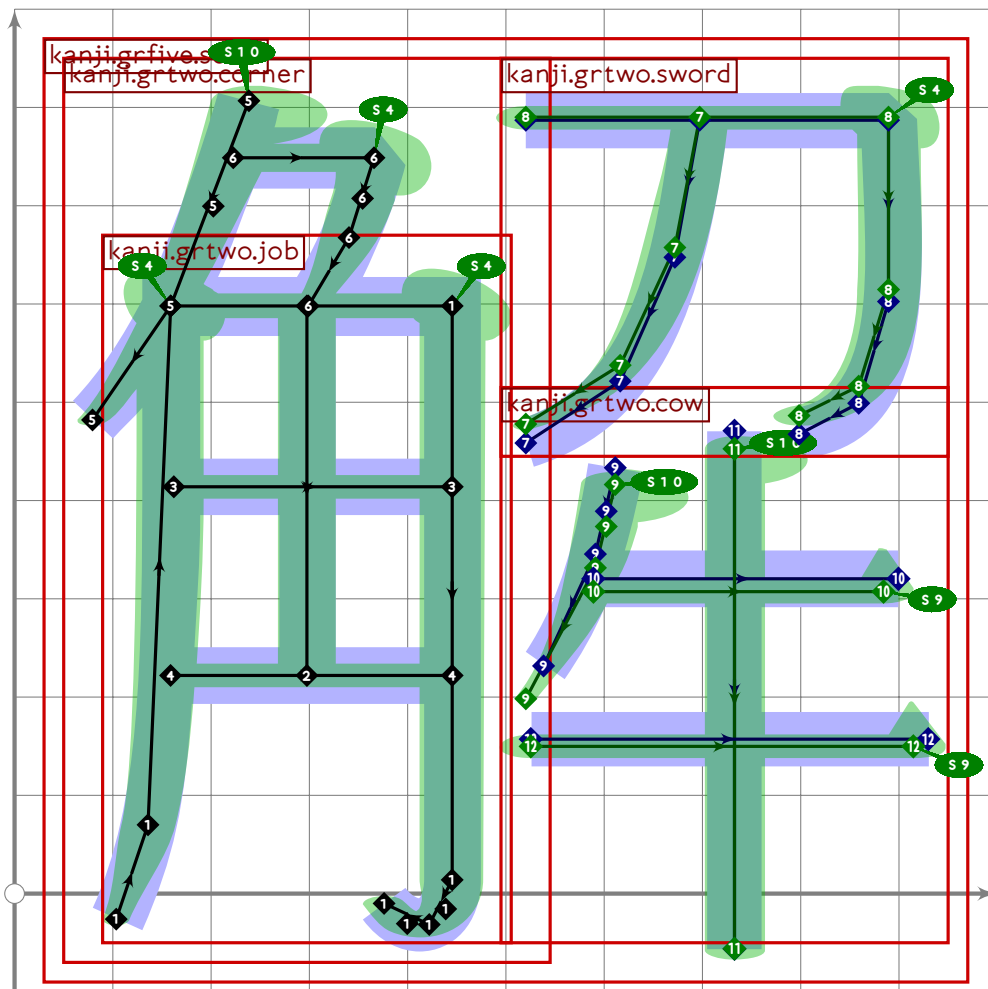


FIVE

```

322
323 vardef kanji.grfive.showing =
324   push_pbox_toexpand("kanji.grfive.showing");
325   build_kanji.level(build_kanji.tb(480,130)
326     (build_kanji.sscale(yscaled 0.9)(kanji.grone.two))
327     (kanji.grone.small));
328   set_boserif(-1,0,whatever);
329   expand_pbox;
330 enddef;

```

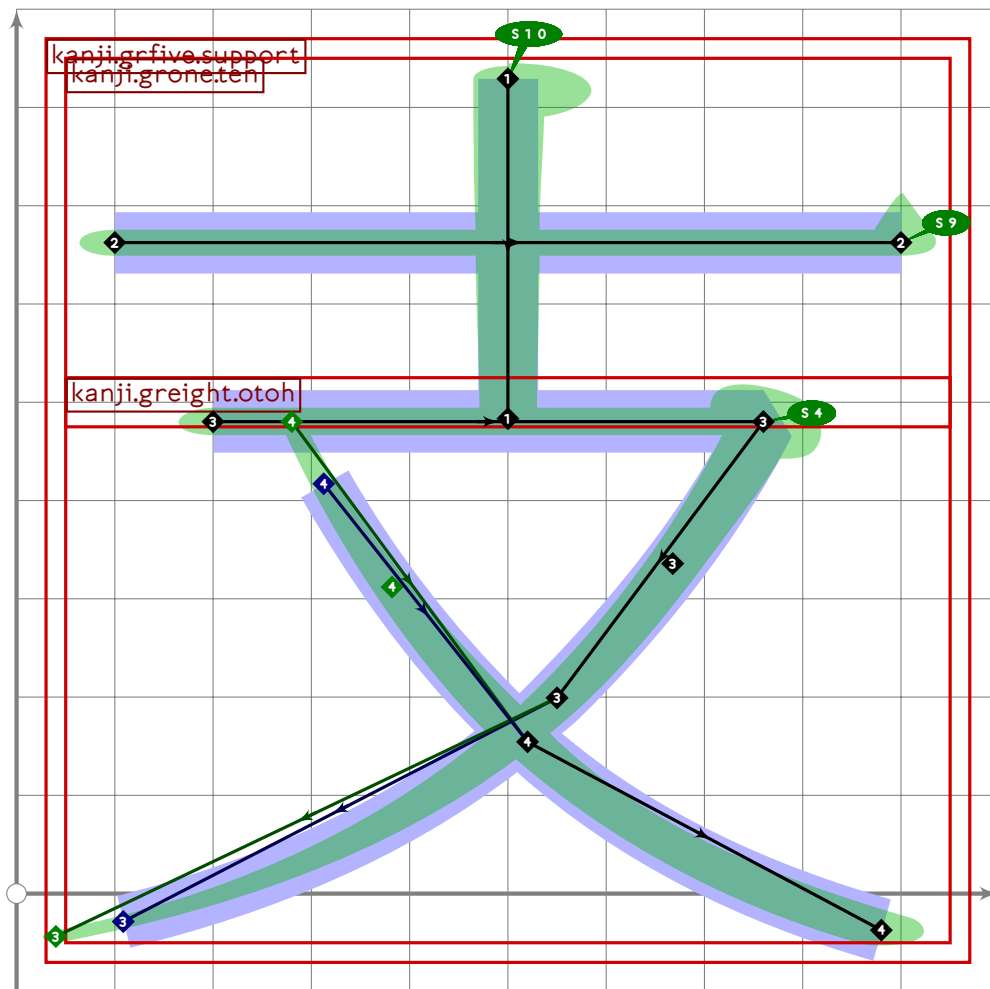


FIVE

```

331
332 vardef kanji.grfive.solve =
333   push_pbox_toexpand("kanji.grfive.solve");
334   build_kanji.lr(520,50)
335     (kanji.grtwo.corner)
336     (build_kanji.level(build_kanji.tb(480,70-40*mincho)
337       (kanji.grtwo.sword)
338       (kanji.grtwo.cow)));
339   expand_pbox;
340 enddef;

```



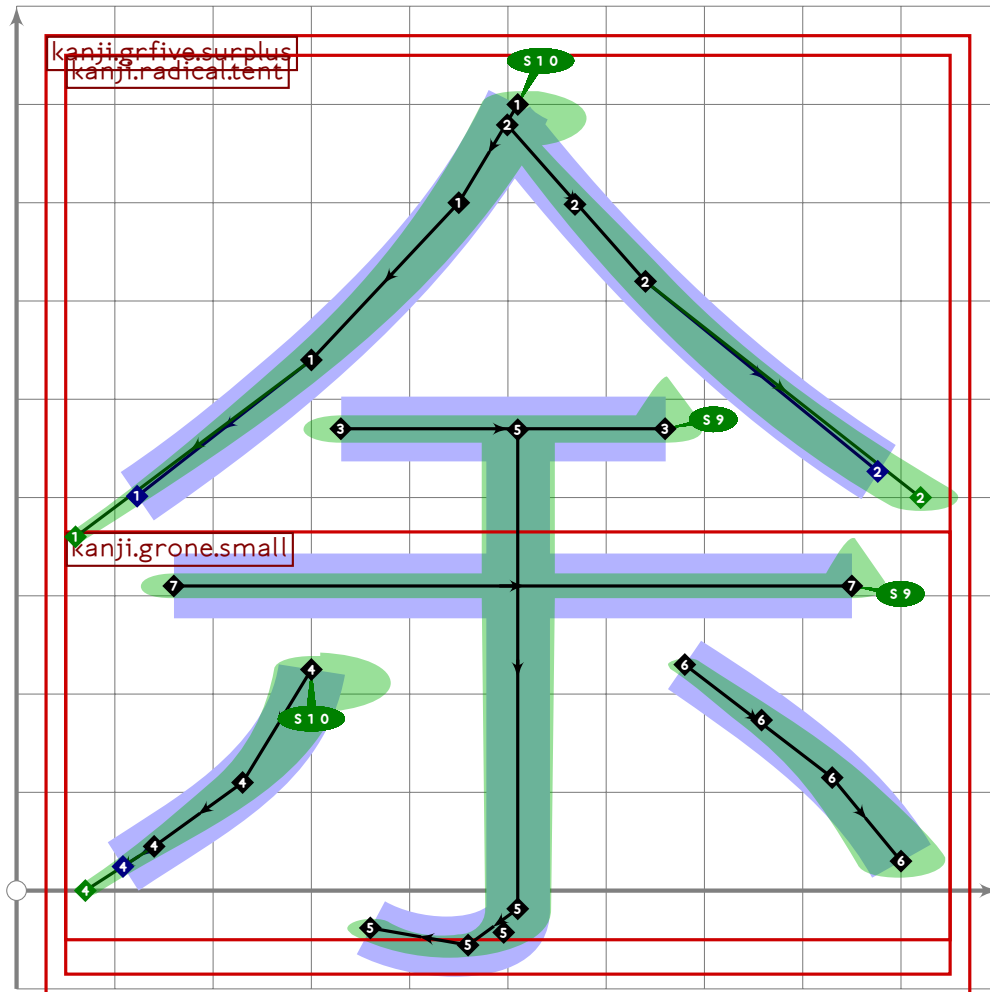
FIVE

```

341
342 vardef kanji.grfive.support =
343   push_pbox_toexpand("kanji.grfive.support");
344   build_kanji.level(build_kanji.tb(500,50)
345     (kanji.grone.ten)
346     (kanji.greight.otoh));
347   expand_pbox;
348 enddef;

```

U+4F59  
tsuku.uni4F59

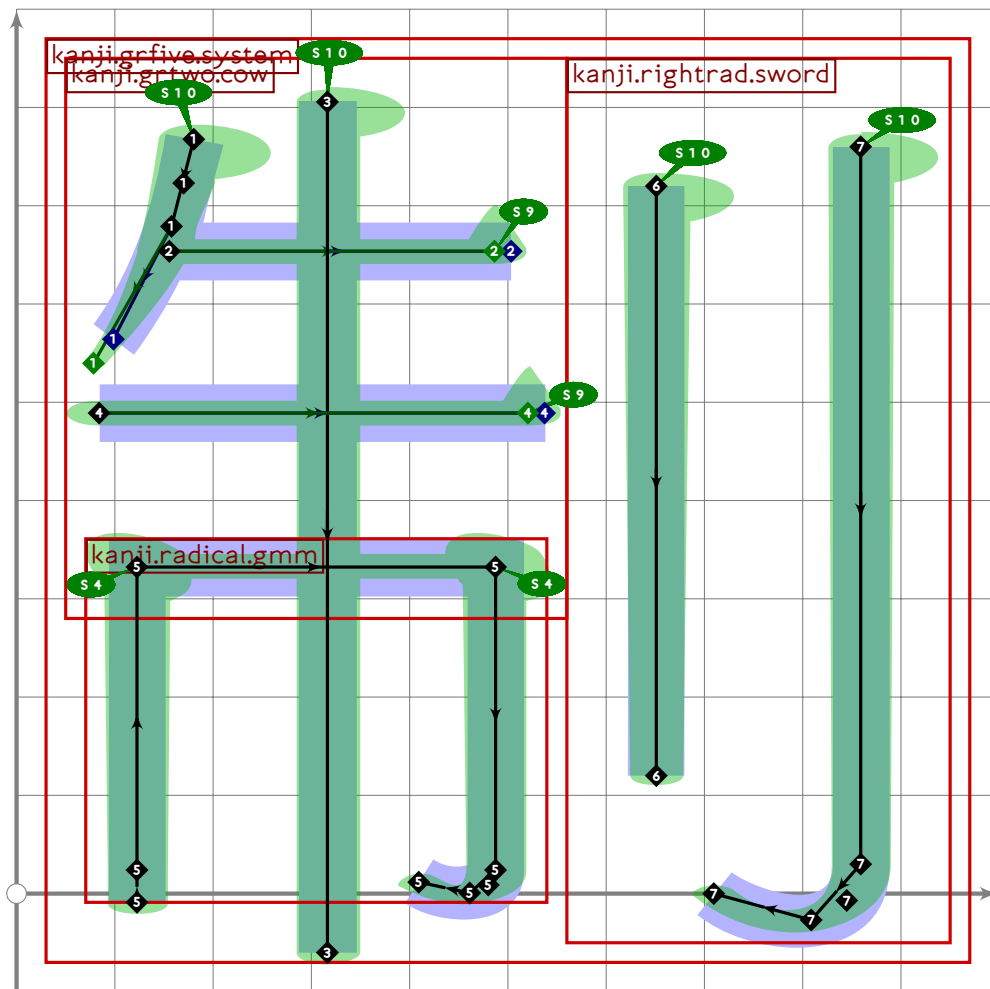


FIVE

```

349
350 vardef kanji.grfive.surplus =
351   push_pbox_toexpand("kanji.grfive.surplus");
352   build_kanji.level(
353     kanji.radical.tent;
354     path saved_path;
355     tsu_xform(identity yscaled 0.5 shifted (0,-60))
356       (kanji.grone.small;saved_path=get_stroke(-1));
357     replace_stroke(-1)(saved_path yscaled 0.65 shifted (0,-38));
358     set_boserif(-1,0,whatever);
359     push_stroke((160,310)-(850,310))((1.5,1.5)-(1.5,1.5));
360     set_boserif(0,1,9);
361   );
362   expand_pbox;
363 enddef;

```



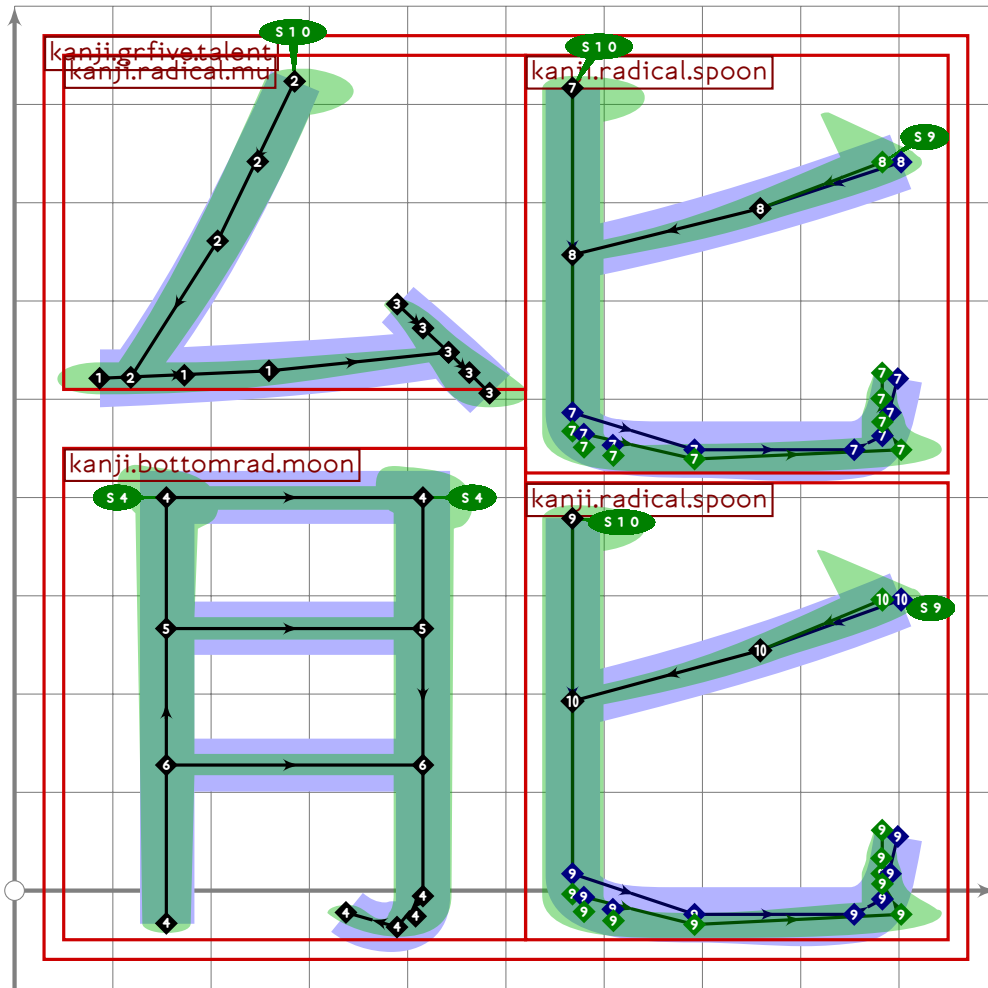
FIVE

```

364
365 vardef kanji.grfive.system =
366   push_pbox_toexpand("kanji.grfive.system");
367   build_kanji.level(build_kanji.lr(560,0)
368     (build_kanji.tb(300,40)
369       (kanji.grtwo.cow)
370         (build_kanji.sscale(xscaled 0.92 shifted (0,100))(kanji.radical.gmm));
371       replace_stroke(-2)(point 0 of oldp-(xpart point 1 of oldp,-60)))
372       (kanji.rightrad.sword));
373   expand_pbox;
374 enddef;

```



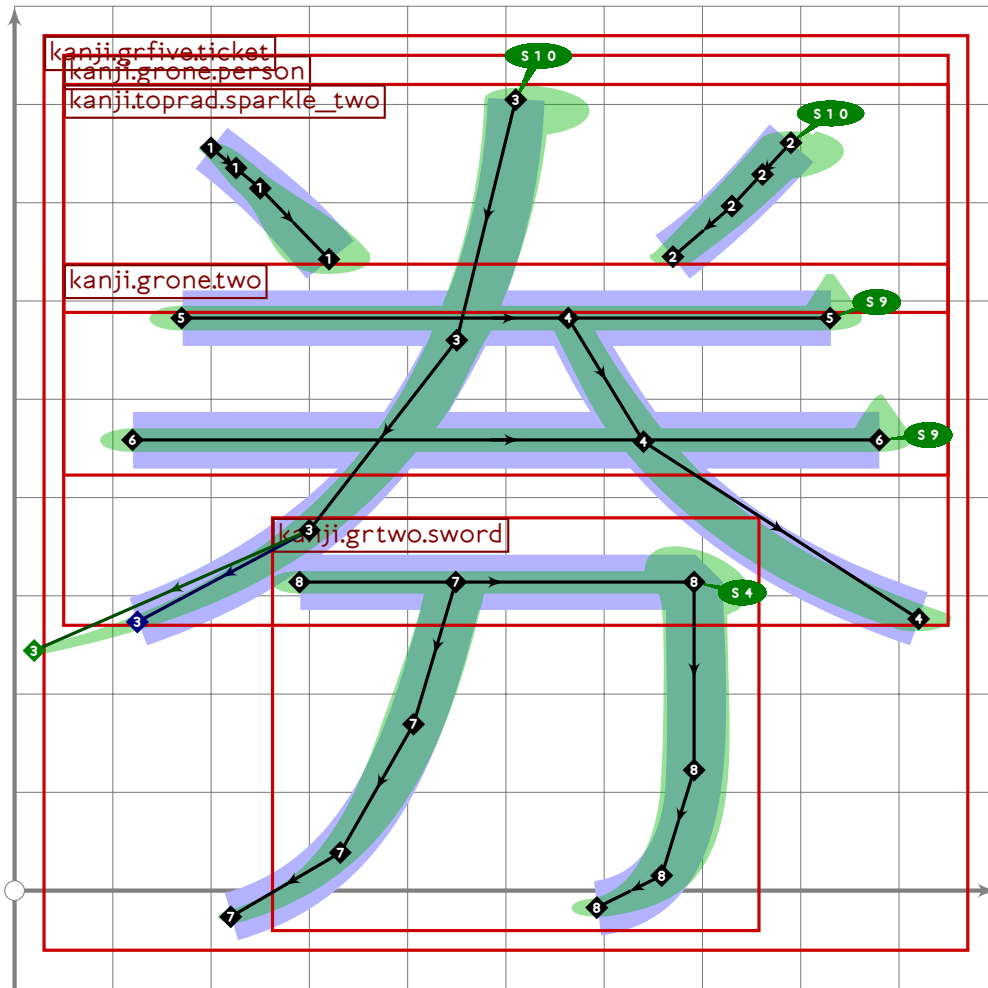


FIVE

```

375
376 vardef kanji.grfive.talent =
377   push_pbox_toexpand("kanji.grfive.talent");
378   build_kanji.level(build_kanji.lr(520,0)
379     (build_kanji.tb(480,-60)
380       (kanji.radical.mu)
381       (kanji.bottomrad.moon))
382     (build_kanji.tb(420,-10)
383       (kanji.radical.spoon)
384       (kanji.radical.spoon)));
385   expand_pbox;
386 enddef;

```



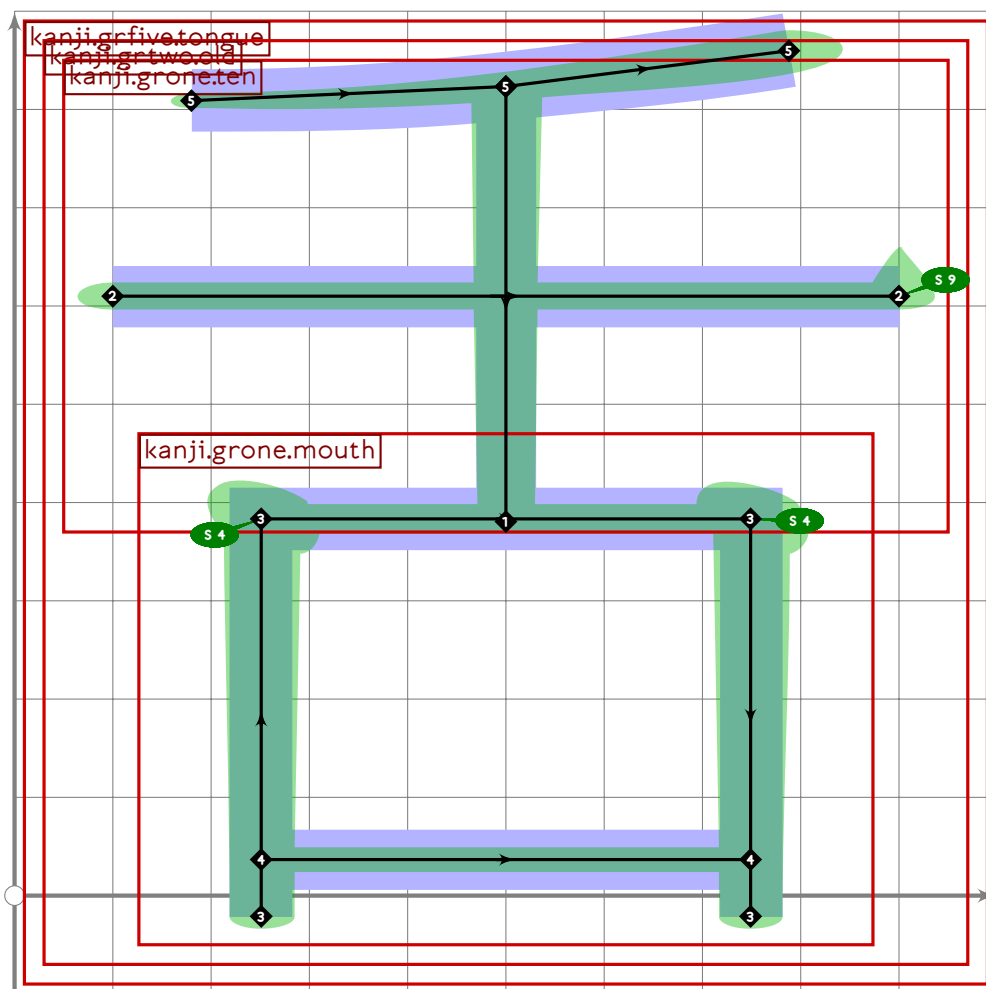
FIVE

```

387
388 vardef kanji.grfive.ticket =
389   push_pbox_toexpand("kanji.grfive.ticket");
390   build_kanji.level(build_kanji.tb(320,100)
391     (build_kanji.sscale(yscaled 0.4 shifted (0,230))
392       (kanji.toprad.sparkle_two);
393       kanji.grone.person;
394       build_kanji.sscale(xyscaled (1,0.37) shifted (0,-40))
395       (kanji.grone.two);
396       replace_strokep(-2)
397       (subpath (xpart (oldp intersectiontimes get_strokep(-1));infinity)
398         of oldp))
399     (build_kanji.sscale(xscaled 0.55 shifted (10,20))
400       (kanji.grtwo.sword);
401       replace_strokep(-1)(oldp slanted 0.05 shifted (-70,0))));
402   expand_pbox;
403 enddef;

```

U+820C  
tsuku.uni820C

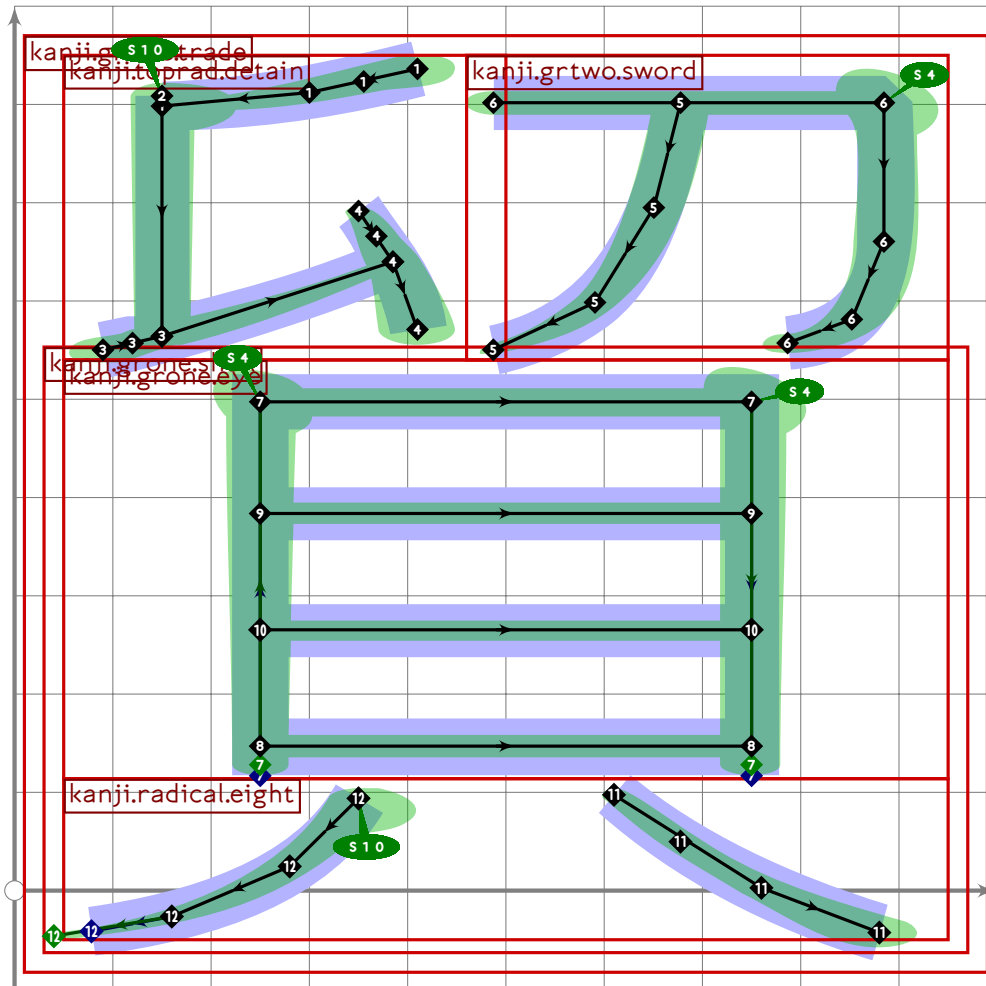


FIVE

```

404
405 vardef kanji.grfive.tongue =
406   push_pbox_toexpand("kanji.grfive.tongue");
407   build_kanji.add_beret(kanji.grtwo.old);
408   expand_pbox;
409 enddef;

```



FIVE

```

410
411 vardef kanji.grfive.trade =
412   push_pbox_toexpand("kanji.grfive.trade");
413   build_kanji.level(build_kanji.tb(540,0)
414     (build_kanji.lr(480,40)
415       (kanji.toprad.detain)
416       (kanji.grtwo.sword))
417     (kanji.grone.shell));
418   expand_pbox;
419 enddef;

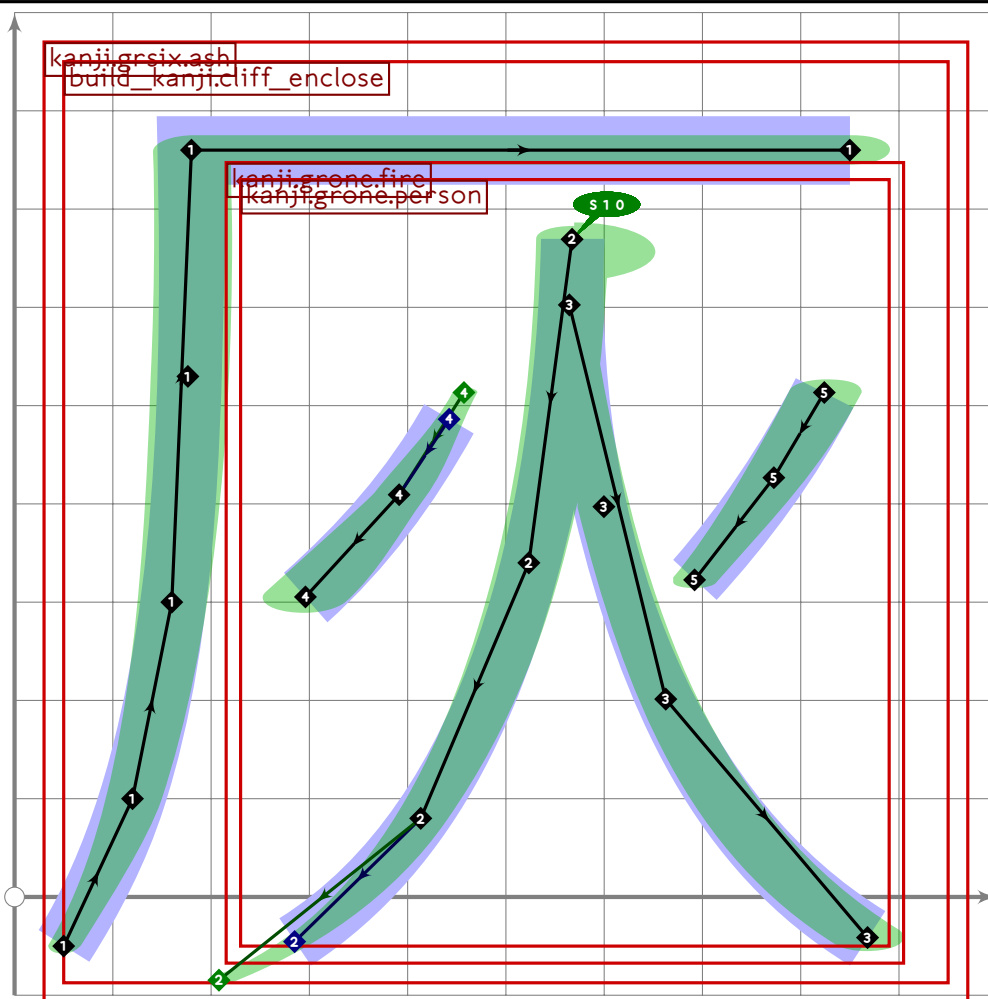
```

## gradesix.mp

```

1 %
2 % Grade Six kanji used on more than one page
3 % Copyright (C) 2011, 2012, 2013, 2016, 2017 Matthew Skala
4 %
5-29 [Standard copyright notice]
30
31 inclusion_lock(gradesix);
32
33

```

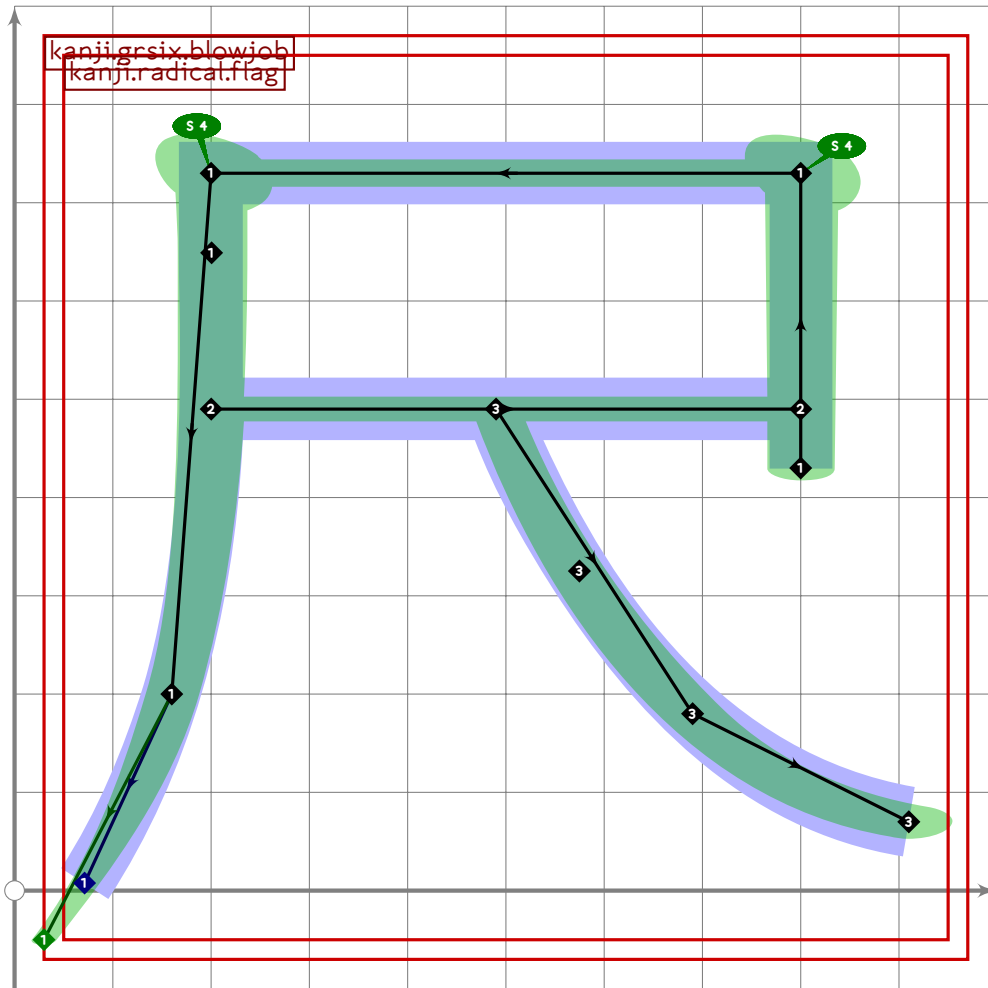


SIX

```

34
35 vardef kanji.grsix.ash =
36   push_pbox_toexpand("kanji.grsix.ash");
37   build_kanji.cliff_enclose(kanji.grone.fire);
38   expand_pbox;
39 enddef;
40

```



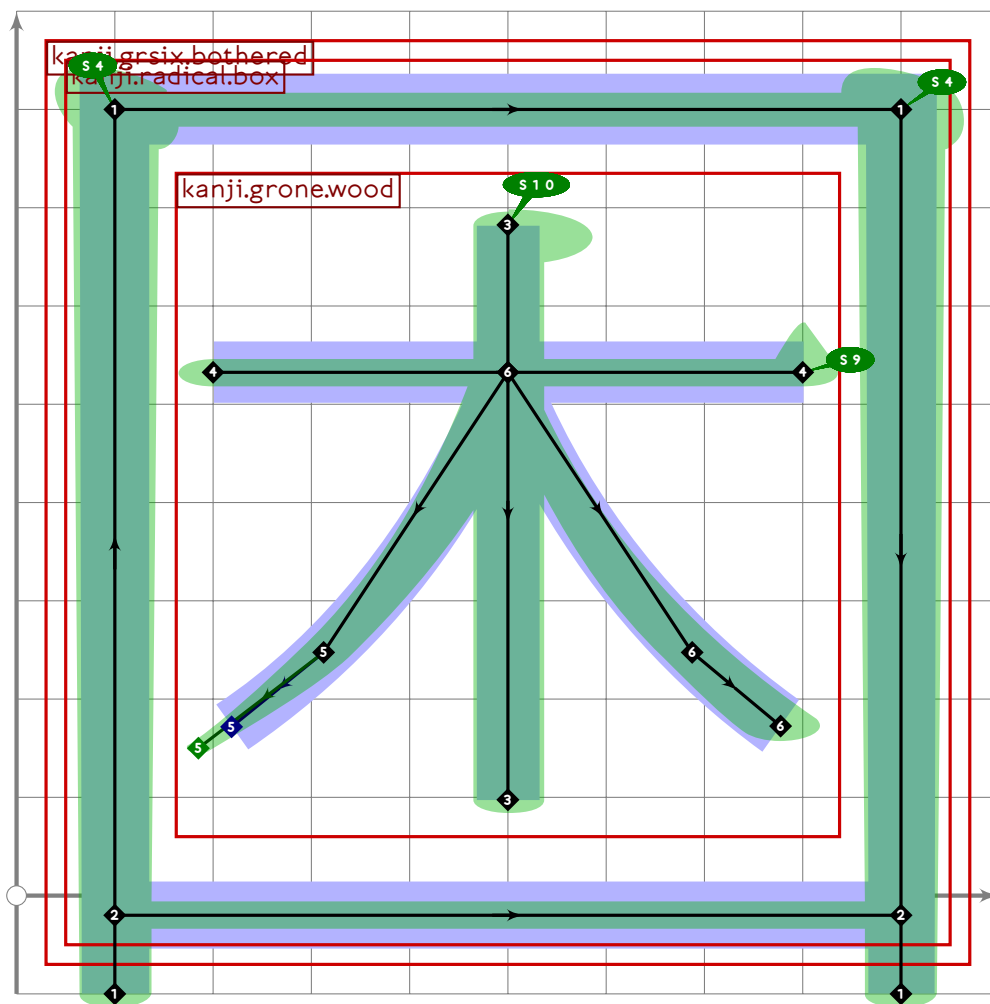
```

41 % the other common word using this kanji is "foot (unit of measure)" but
42 % that is a poor mnemonic because it's ambiguous with "foot (body part)"
43 vardef kanji.grsix.blowjob =
44   push_pbox_toexpand("kanji.grsix.blowjob");
45   kanji.radical.flag;
46   push_stroke((490,490)..tension 1.2..(690,180)..(910,70),
47     (1.2,1.2)–(1.4,1.4)–(1.7,1.7));
48   expand_pbox;
49 enddef;

```

SIX

U+56F0  
tsuku.uni56F0

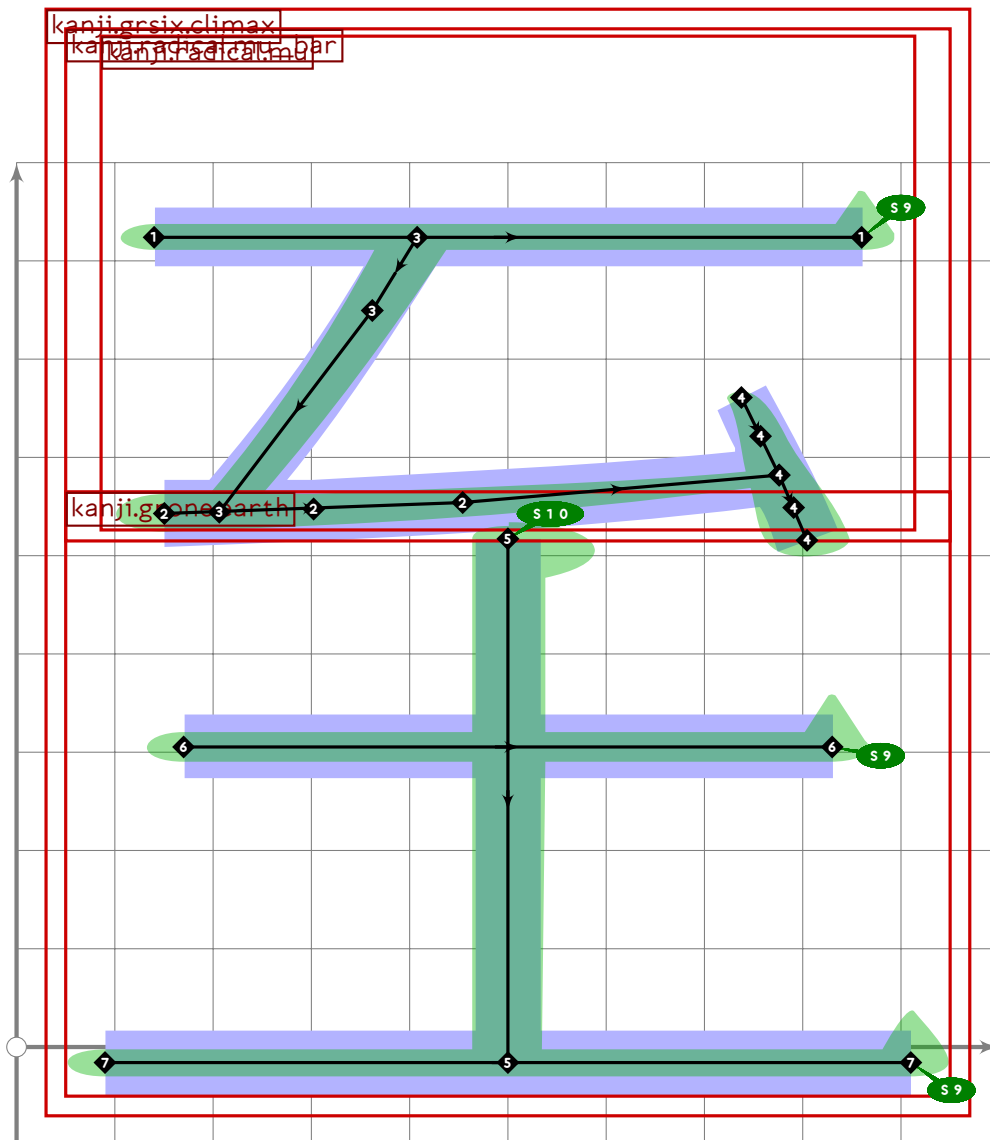


SIX

```

50
51 vardef kanji.grsix.bothered =
52   push_pbox_toexpand("kanji.grsix.bothered");
53   kanji.radical.box;
54   build_kanji.sscale(scaled 0.75)(kanji.grone.wood);
55   expand_pbox;
56 enddef;

```



SIX

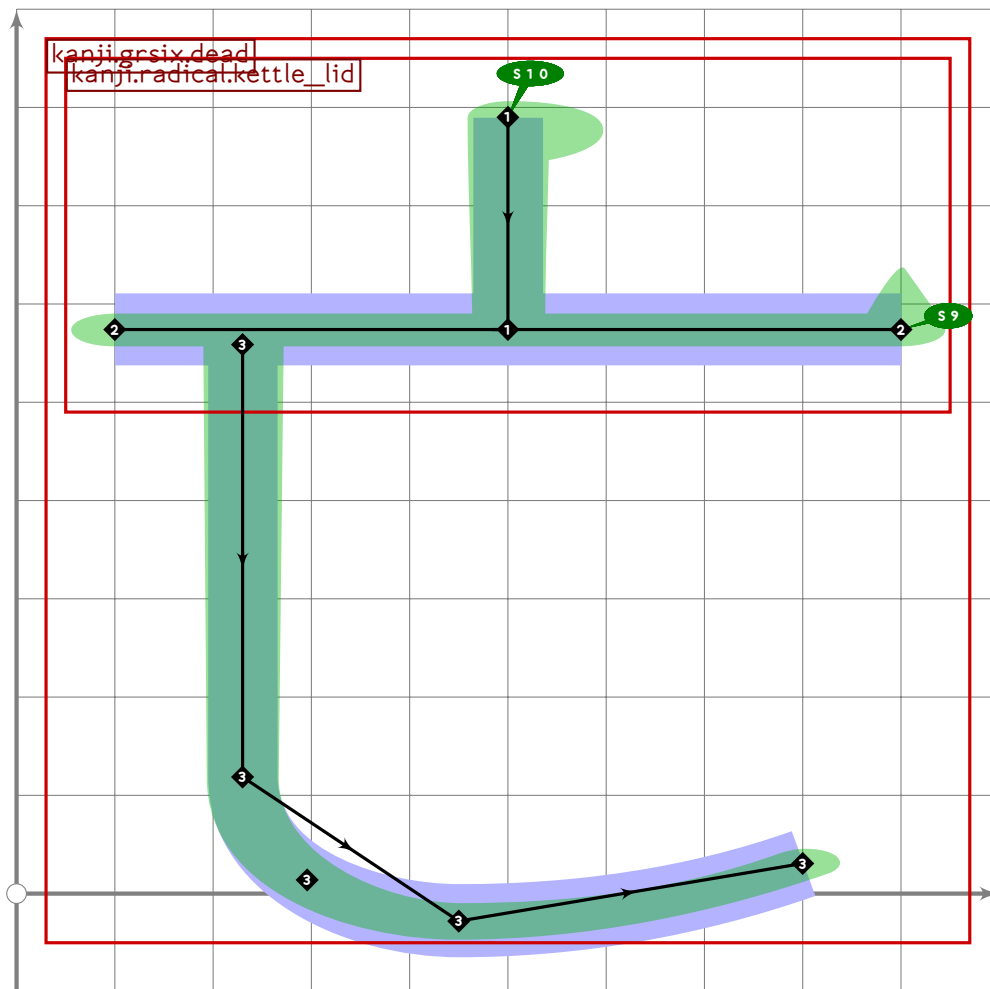
```

57
58 vardef kanji.grsix.climax =
59   push_pbox_toexpand("kanji.grsix.climax");
60   build_kanji.tb(540,50)
61     (kanji.radical.mu_bar)
62     (kanji.grone.earth);
63   expand_pbox;
64 enddef;

```



U+4EA1  
tsuku.uni4EA1

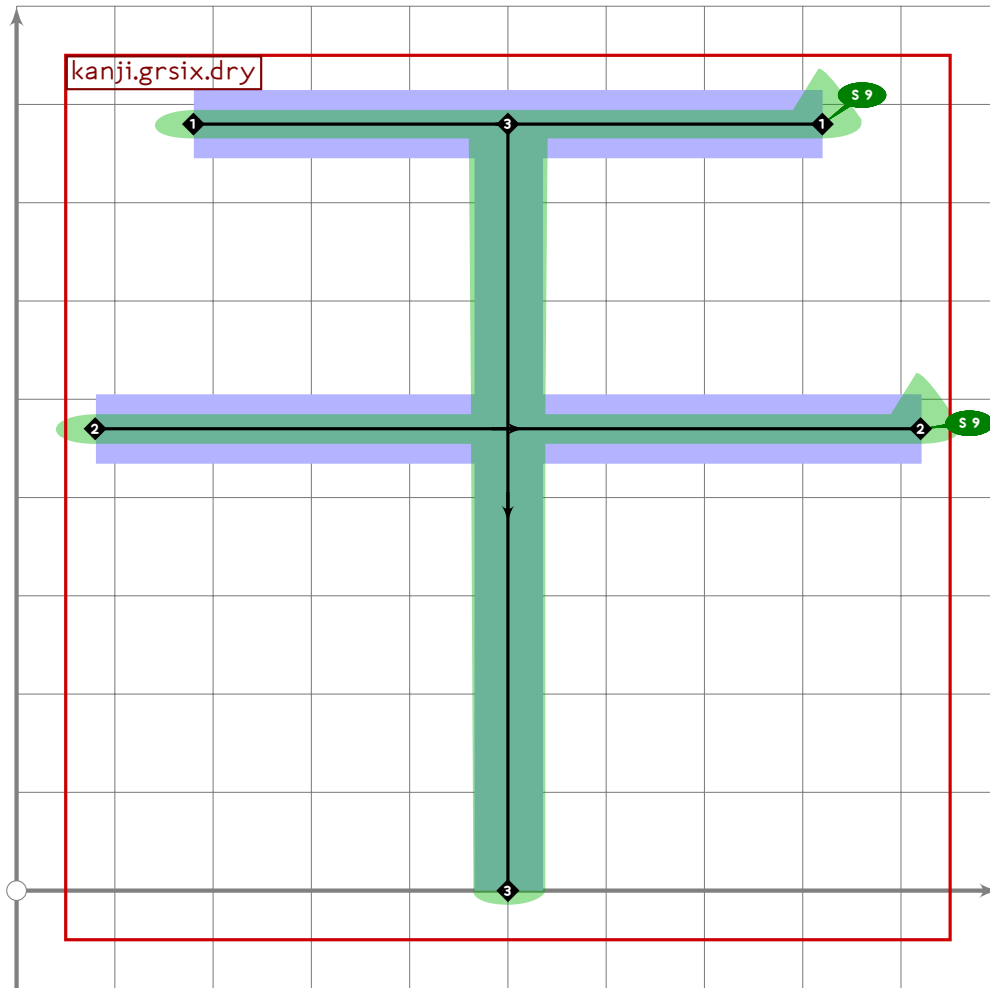


## SIX

```

65
66 vardef kanji.grsix.dead =
67   push_pbox_toexpand("kanji.grsix.dead");
68   build_kanji.level(build_kanji.tb(550,120)
69     (kanji.radical.kettle_lid)
70     (push_stroke((230,780)-(230,180){down}..{right}(450,-20)..(800,60),
71       (1.6,1.6)-(1.5,1.5)-(1.8,1.8)-(1.5,1.5))));
72   expand_pbox;
73 enddef;

```

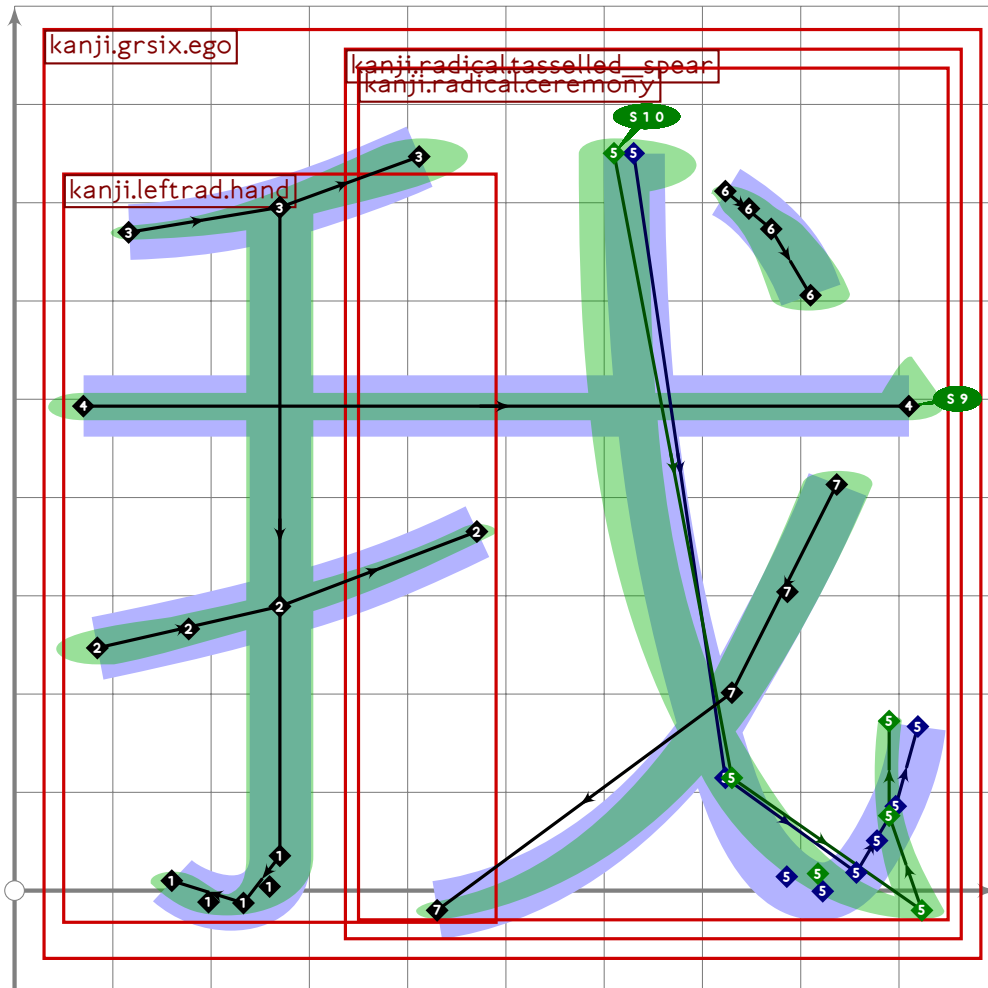


```

74
75 vardef kanji.grsix.dry =
76   push_pbox_toexpand("kanji.grsix.dry");
77   push_stroke((180,780)–(820,780),
78     (1.6,1.6)–(1.6,1.6));
79   set_boserif(0,1,9);
80   push_stroke((80,470)–(920,470),
81     (1.6,1.6)–(1.6,1.6));
82   set_boserif(0,1,9);
83   push_stroke((500,780)–(500,0),
84     (1.6,1.6)–(1.5,1.5));
85   expand_pbox;
86 enddef;

```

SIX

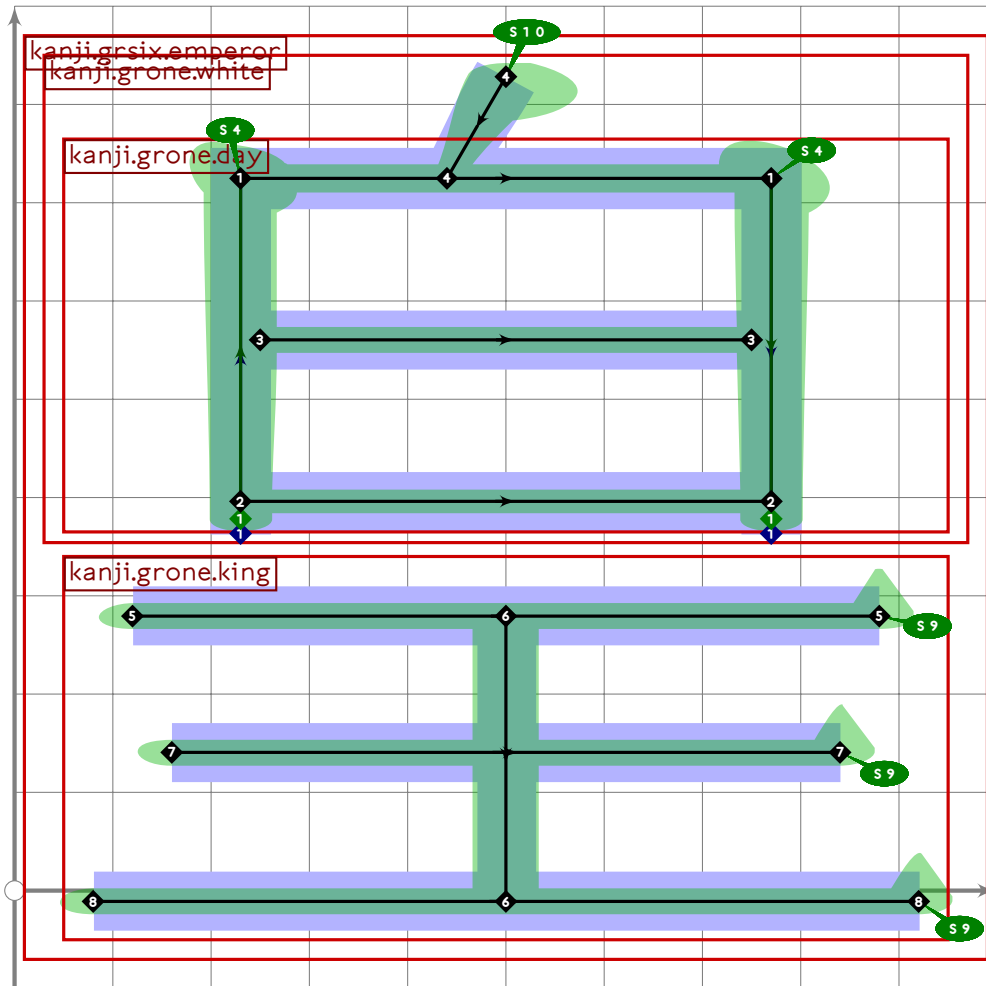


## SIX

```

87
88 vardef kanji.grsix.ego =
89   push_pbox_toexpand("kanji.grsix.ego");
90   build_kanji.level(build_kanji.sscale(yscaled 0.9 shifted (0,-50))
91     (build_kanji.lr(420,140)
92       (build_kanji.add_beret(build_kanji.sscale(yscaled 0.94)
93         (kanji.leftrad.hand;
94           obstacktype[find_whatsoever(otstroke,1)]:=otnull)))
95       (build_kanji.sscale(yscaled 1.07 shifted (0,60))
96         (kanji.radical.tasselled_spear));
97   replace_stroke(-3)((70,560)-(910,560)));
98   expand_pbox;
99 enddef;

```



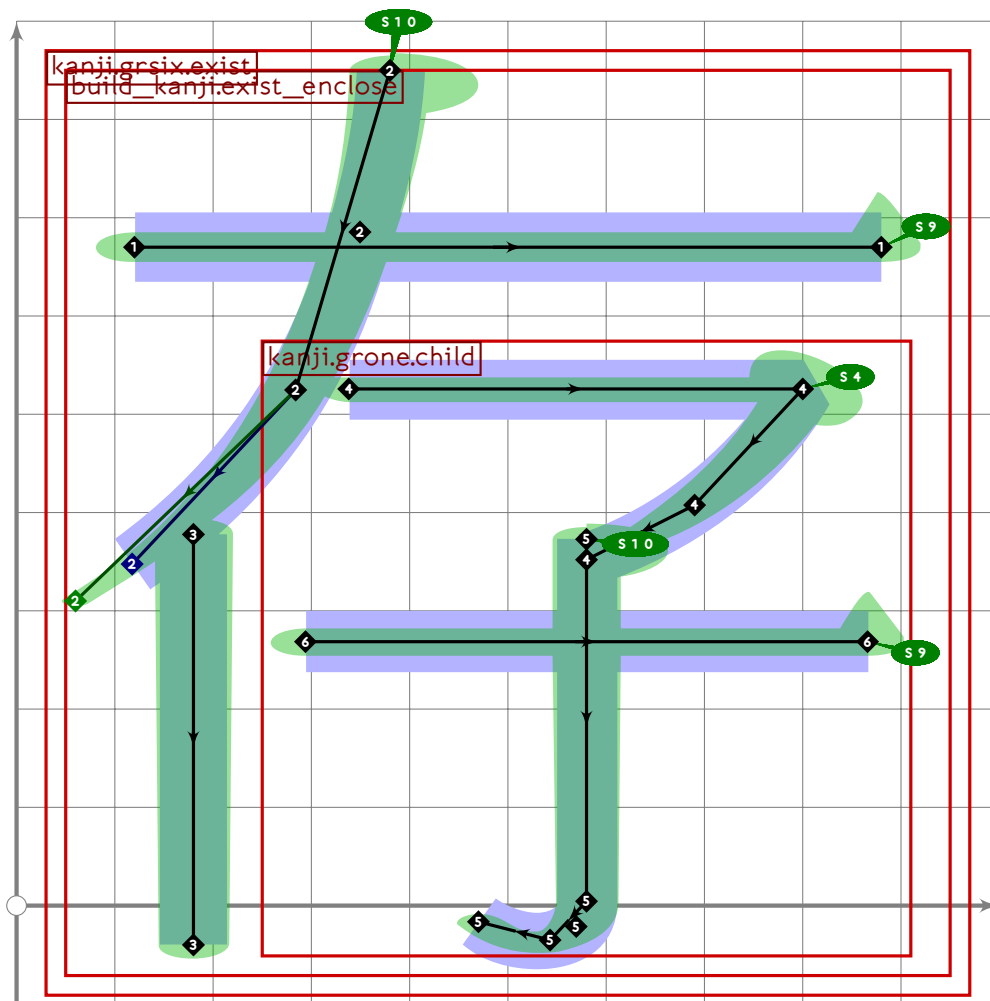
```

100
101 vardef kanji.grsix.emperor =
102   push_pbox_toexpand("kanji.grsix.emperor");
103   build_kanji.tb(350;-20)
104     (kanji.grone.white)
105     (kanji.grone.king);
106   expand_pbox;
107 enddef;

```

SIX

U+5B58  
tsuku.uni5B58

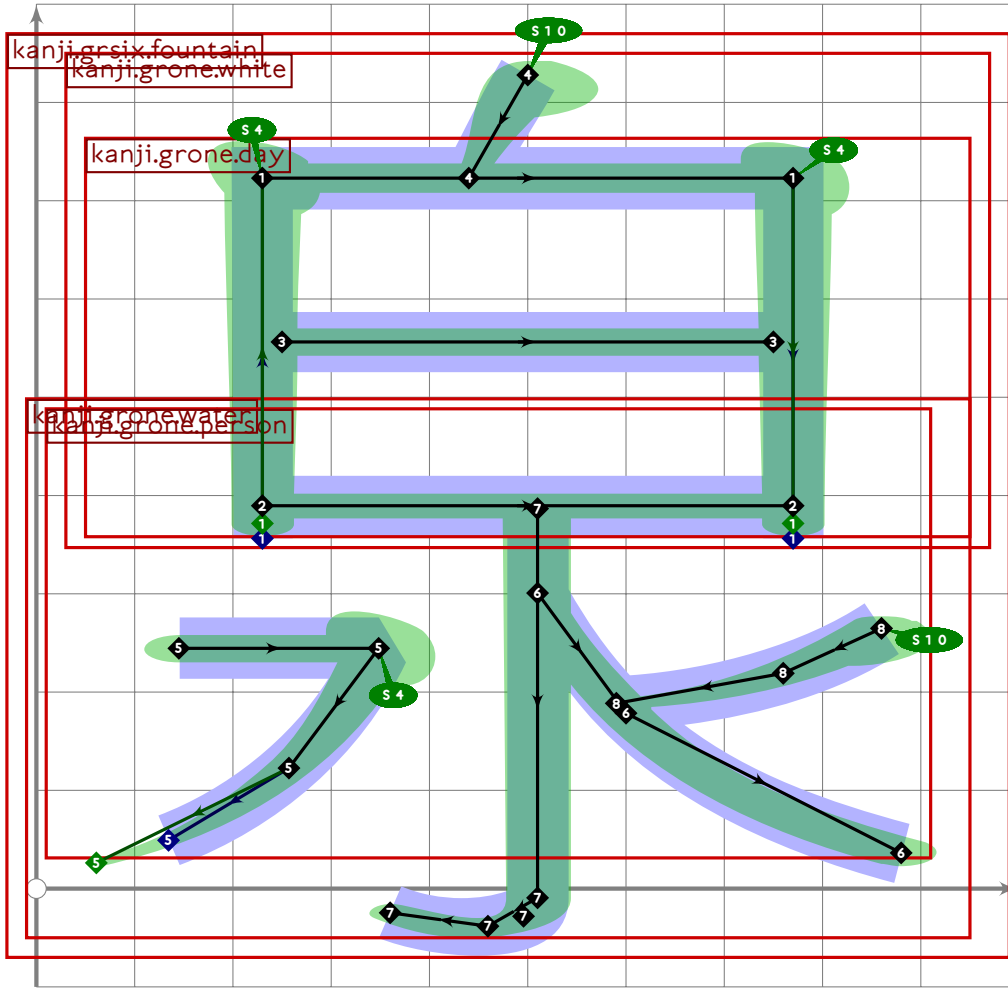


## SIX

```

108
109 vardef kanji.grsix.exist =
110   push_pbox_toexpand("kanji.grsix.exist");
111   build_kanji.exist_enclose(
112     build_kanji.sscale(xyscaled (1,0.92) shifted (0,-50))
113     (kanji.grone.child));
114   expand_pbox;
115 enddef;

```



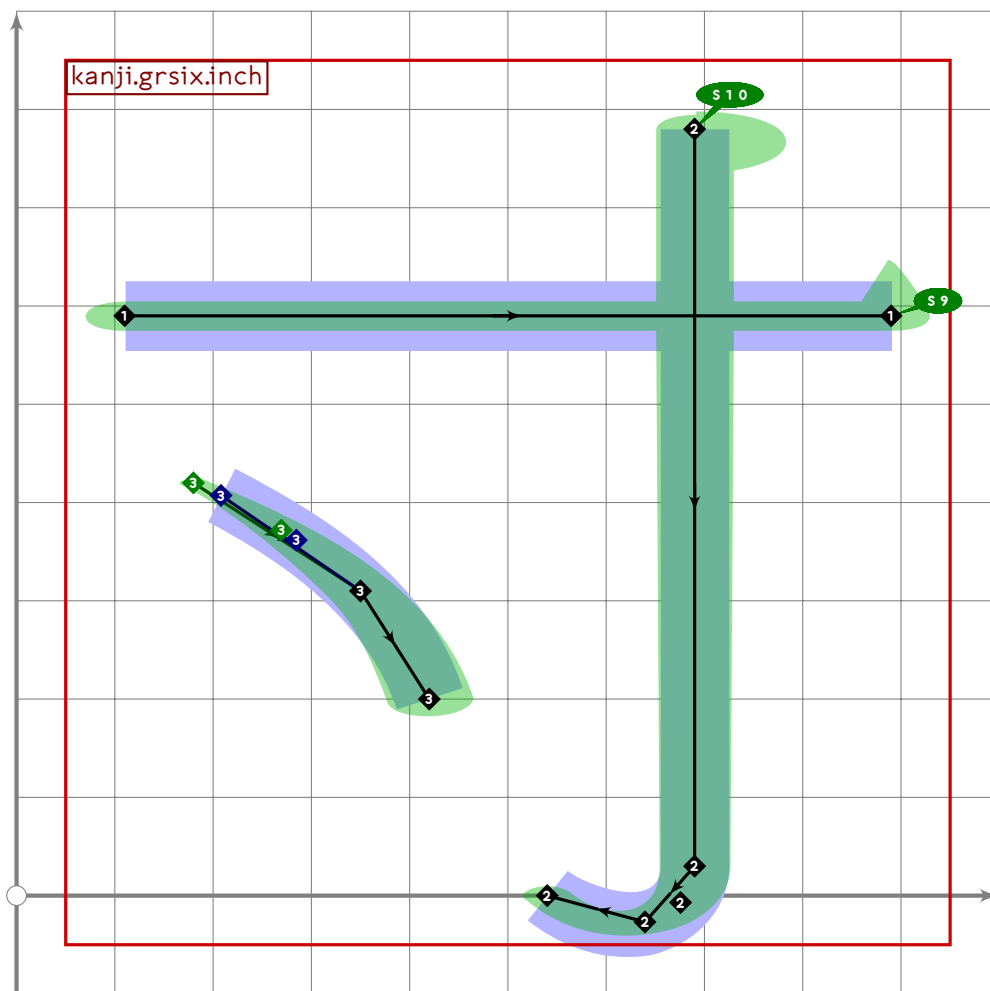
```

116
117 vardef kanji.grsix.fountain =
118   push_pbox_toexpand("kanji.grsix.fountain");
119   build_kanji.level(build_kanji.tb(380,54)
120     (kanji.grone.white)
121     (kanji.grone.water;
122       set_boserif(-1,0,whatever)));
123   expand_pbox;
124 enddef;

```

SIX

U+5BF8  
tsuku.uni5BF8

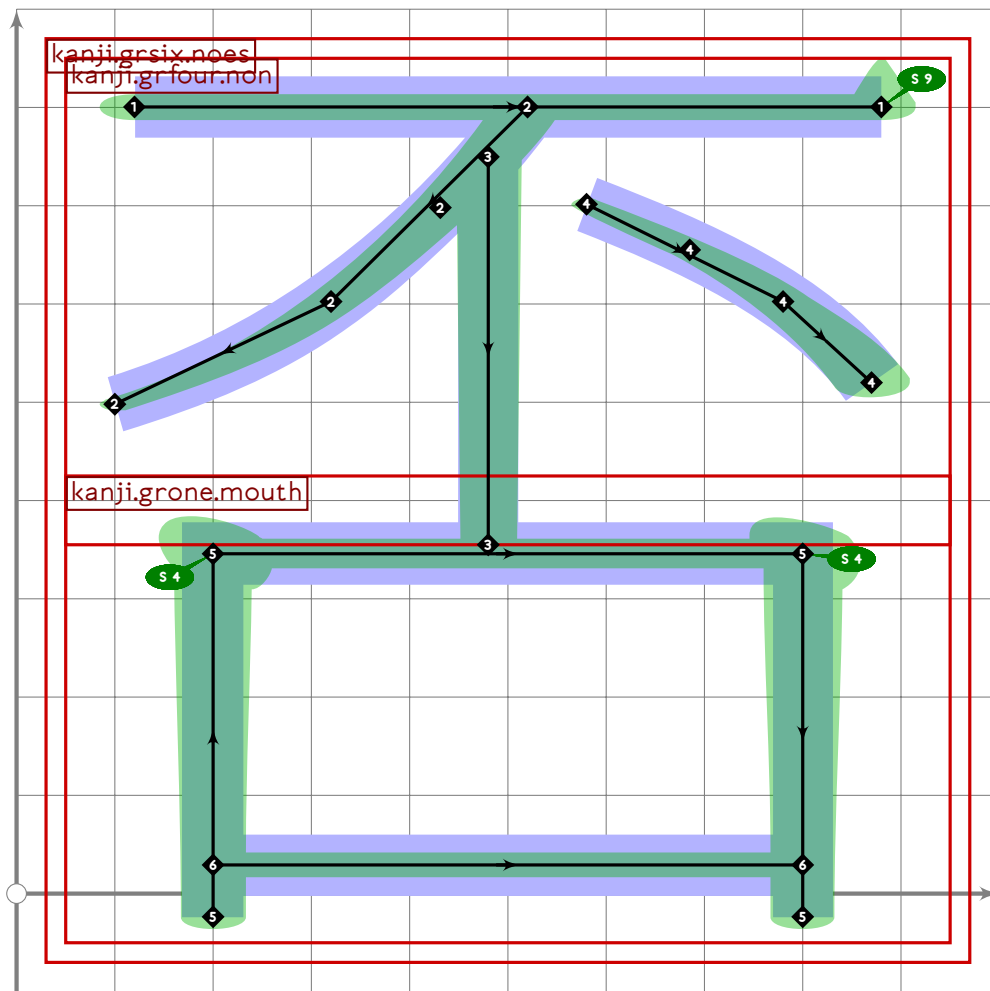


## SIX

```

125
126 vardef kanji.grsix.inch =
127   push_pbox_toexpand("kanji.grsix.inch");
128   push_stroke((110,590)–(890,590),(1.6,1.6)–(1.6,1.6));
129   set_boserif(0,1,9);
130   push_stroke((690,780),(1.6,1.6));
131   build_kanji.add_jtail(0);
132   set_boserif(0,0,10);
133   push_stroke((180,420)..tension 1.2..(350,310)..(420,200),
134     (0,9,0,9)–(1.5,1.5)–(1.7,1.7));
135   expand_pbox;
136 enddef;

```



```

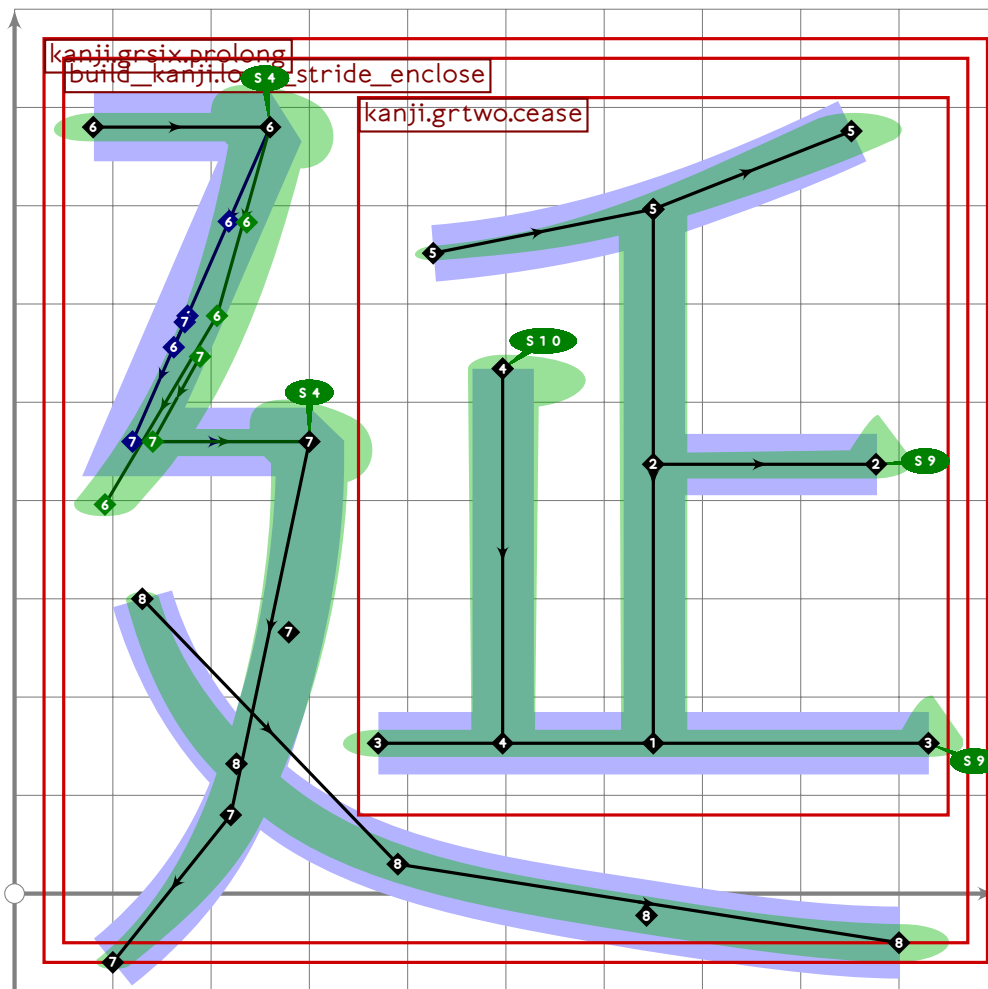
137
138 vardef kanji.grsix.noes =
139   push_pbox_toexpand("kanji.grsix.noes");
140   build_kanji.level(build_kanji.tb(390,70)
141     (kanji.grfour.non)
142     (kanji.grone.mouth));
143   expand_pbox;
144 enddef;

```

SIX



U+5EF6  
tsuku.uni5EF6

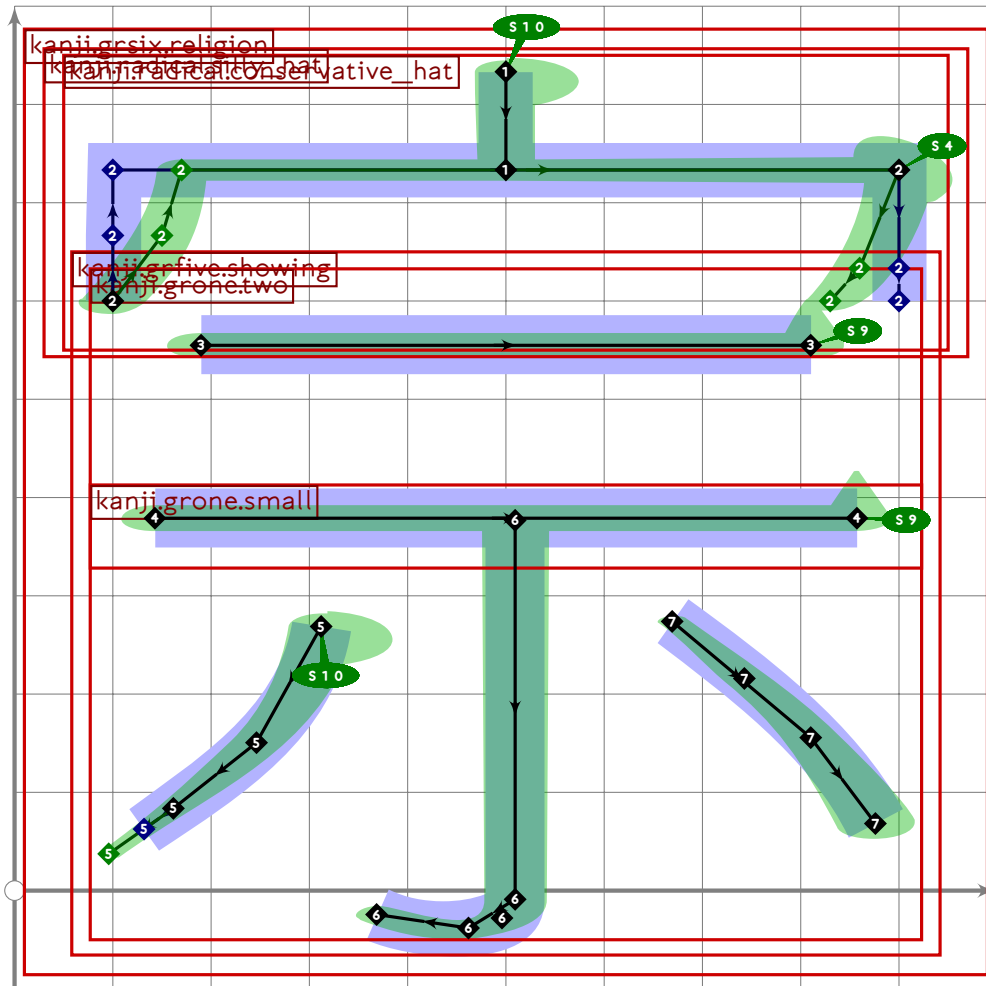


## SIX

```

145
146 vardef kanji.grsix.prolong =
147   push_pbox_toexpand("kanji.grsix.prolong");
148   build_kanji.long_stride_enclose(false)
149   (build_kanji.add_beret(kanji.grtwo.cease));
150   expand_pbox;
151 enddef;

```

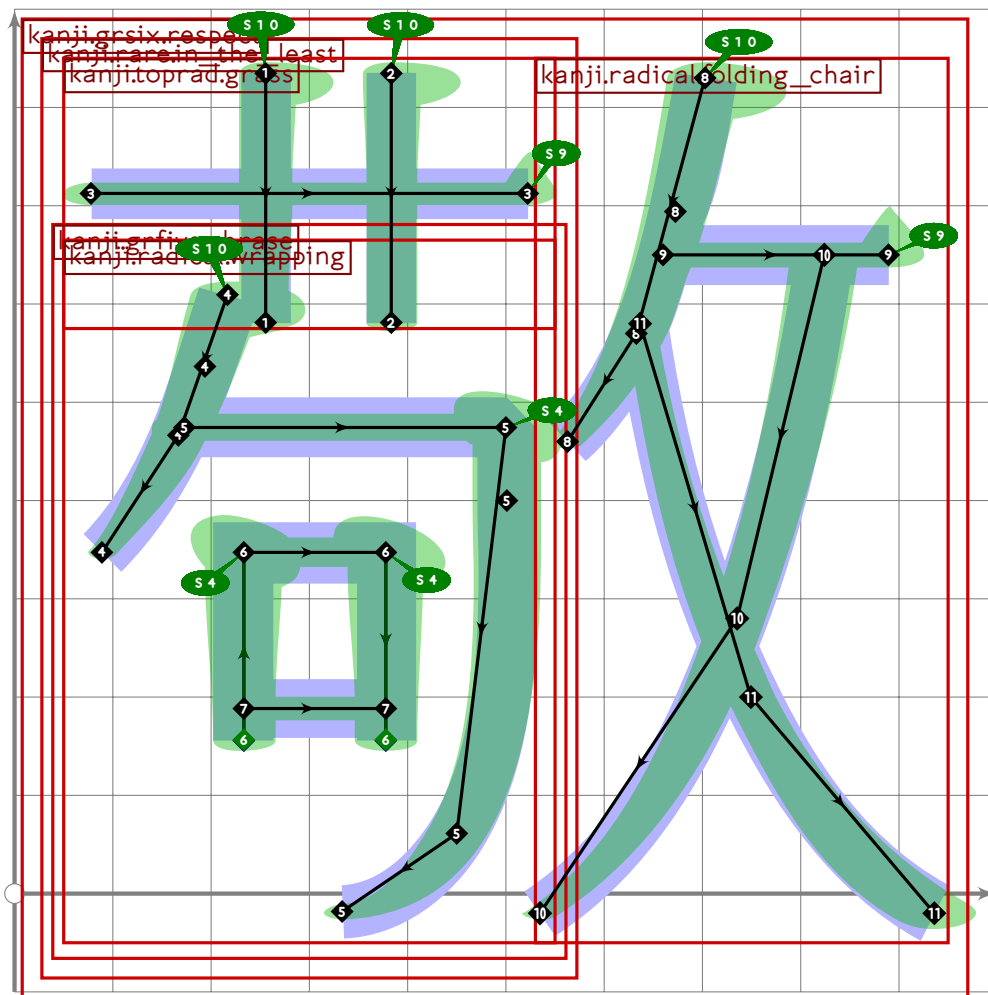


```

152
153 vardef kanji.grsix.religion =
154   push_pbox_toexpand("kanji.grsix.religion");
155   build_kanji.tb(600,100)
156   (kanji.radical.silly_hat)
157   (build_kanji.sscale(xscaled 0.94)(kanji.grfive.showing));
158   expand_pbox;
159 enddef;

```

SIX

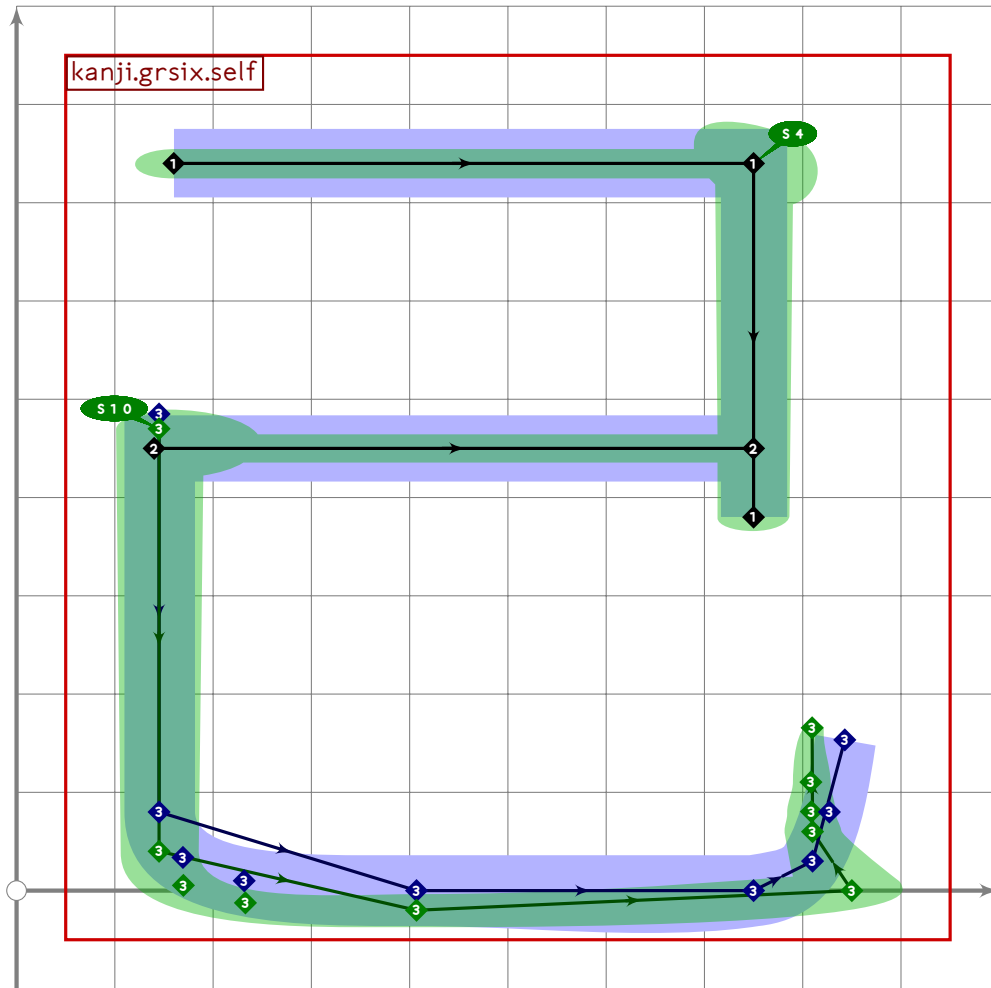


## SIX

```

160
161 vardef kanji.grsix.respect =
162   push_pbox_toexpand("kanji.grsix.respect");
163   build_kanji.lr(540,20)
164     (kanji.rare.in_the_least)
165     (kanji.radical.folding_chair);
166   expand_pbox;
167 enddef;

```

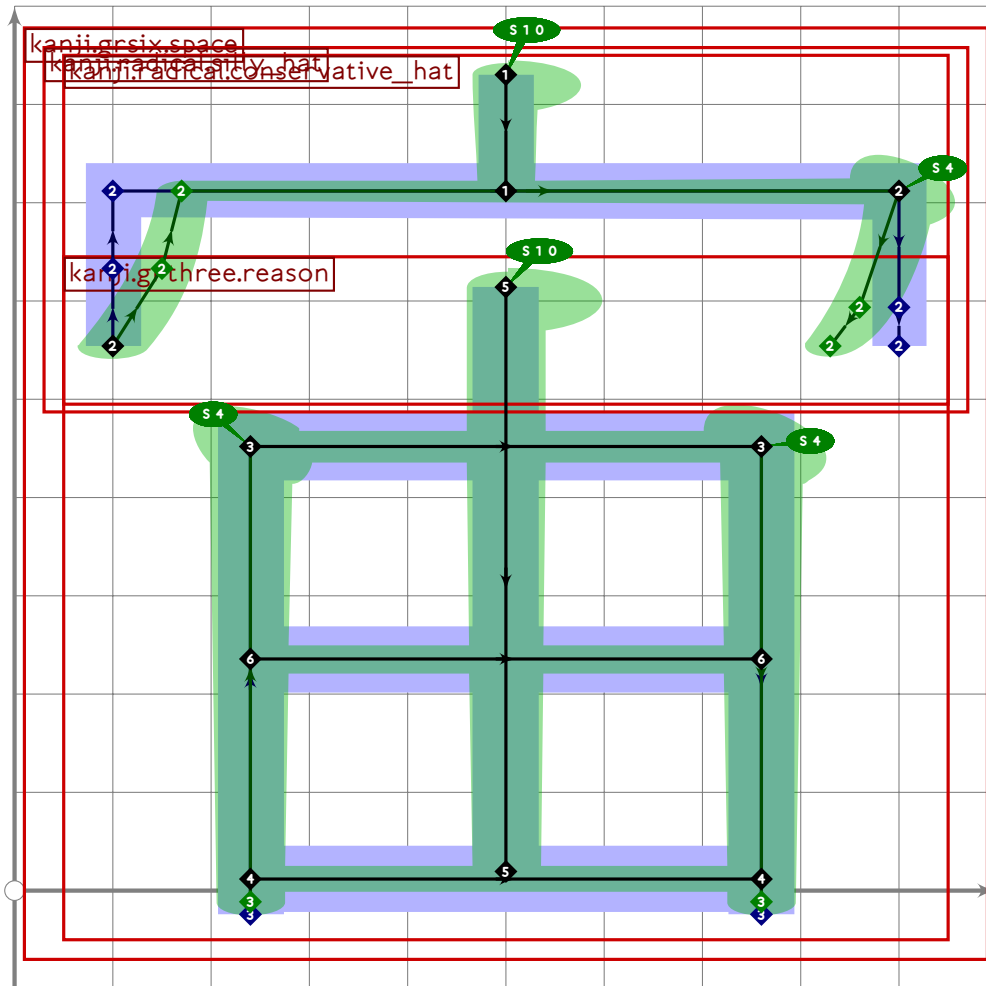


```

168
169 vardef kanji.grsix.self =
170   push_pbox_toexpand("kanji.grsix.self");
171   push_stroke((160,740)–(750,740)–(750,380),
172     (1.6,1.6)–(1.6,1.6)–(1.5,1.5));
173   set_botip(0,1,1);
174   set_boserif(0,1,4);
175   push_stroke((140,450)–(750,450),
176     (1.5,1.5)–(1.5,1.5));
177   push_stroke((145,485–15*mincho),(1.7,1.7));
178   set_boserif(0,0,10);
179   build_kanji.add_ltail(0);
180   expand_pbox;
181 enddef;

```

SIX

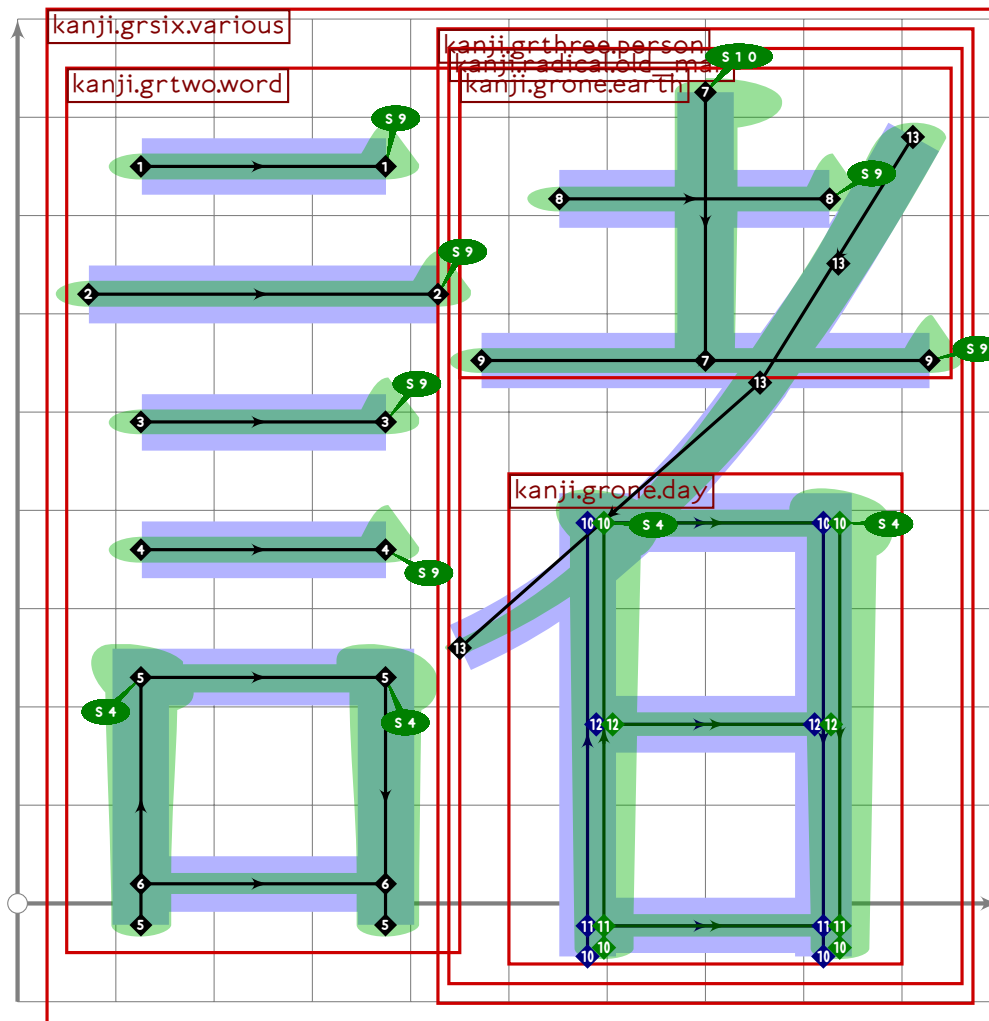


## SIX

```

182
183 vardef kanji.grsix.space =
184   push_pbox_toexpand("kanji.grsix.space");
185   build_kanji.tb(570,150)
186     (kanji.radical.silly_hat)
187     (kanji.grthree.reason);
188   expand_pbox;
189 enddef;

```



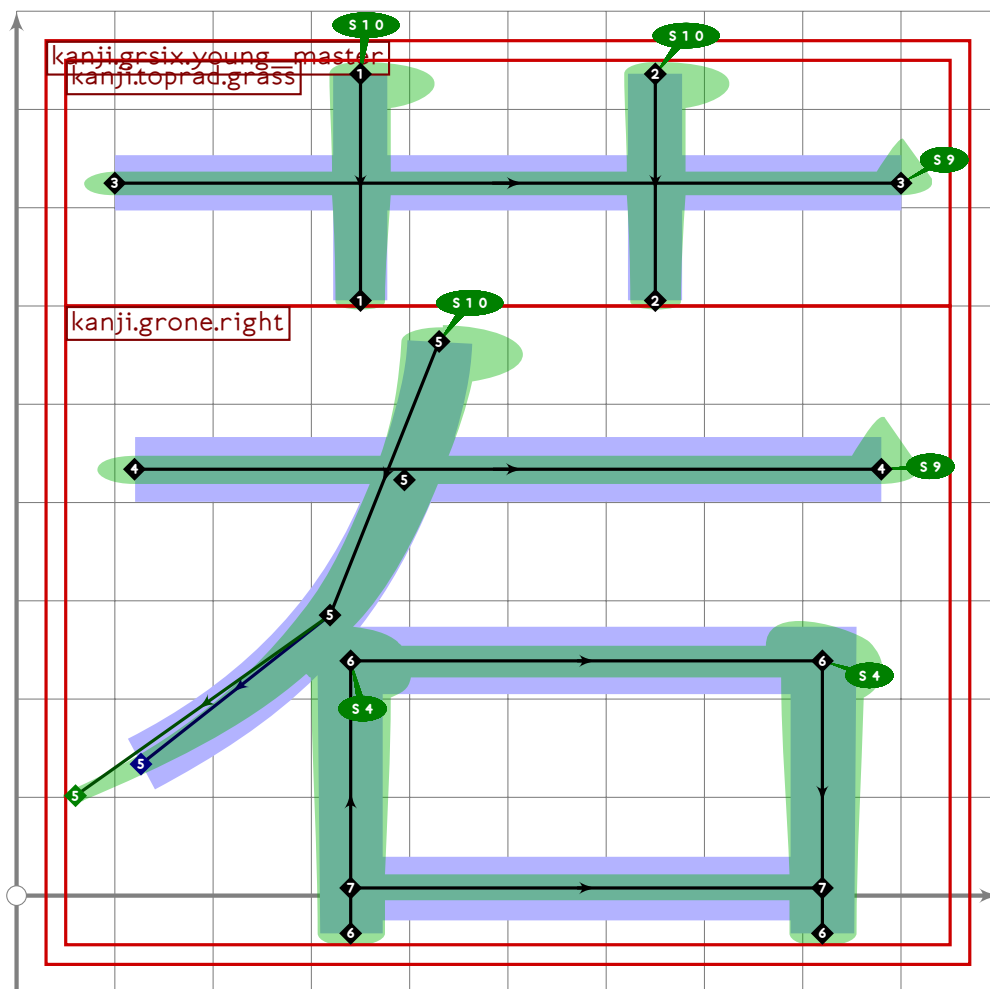
```

190
191 vardef kanji.grsix.various =
192   push_pbox_toexpand("kanji.grsix.various");
193   build_kanji.level(build_kanji.lr(450,0)
194     (kanji.grtwo.word)
195     (kanji.grthree.person));
196   expand_pbox;
197 enddef;

```

SIX

U+82E5  
tsuku.uni82E5



SIX

```

198
199 vardef kanji.grsix.young_master =
200   push_pbox_toexpand("kanji.grsix.young_master");
201   build_kanji.tb(600,0)
202     (kanji.toprad.grass)
203     (kanji.grone.right);
204   expand_pbox;
205 enddef;

```