作りましょう 0.7

パラメタ方式フォントファミリ
校とプリティプリントのソース

Tsukurimashou 0.7

Parametric Font Family
Proofs and pretty-printed source code

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Proofs and pretty-printed source code for Tsukurimashou
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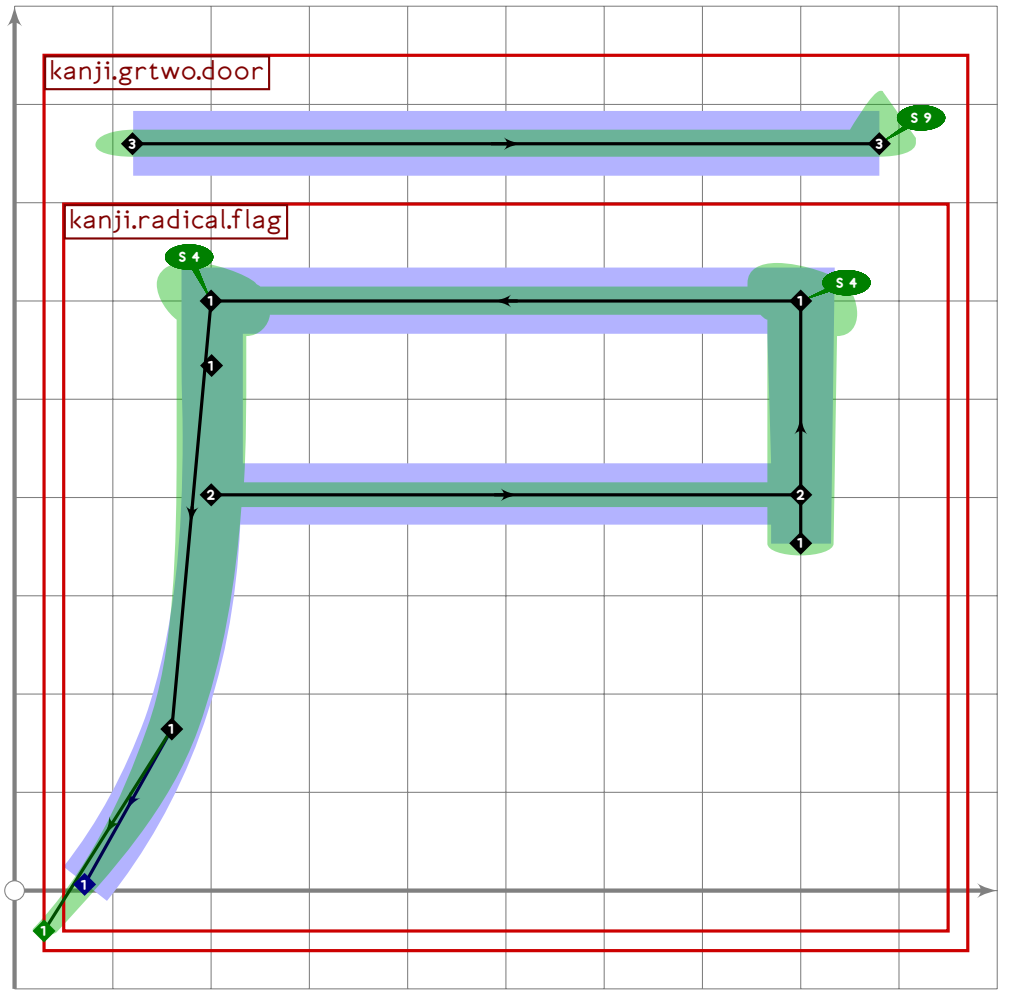
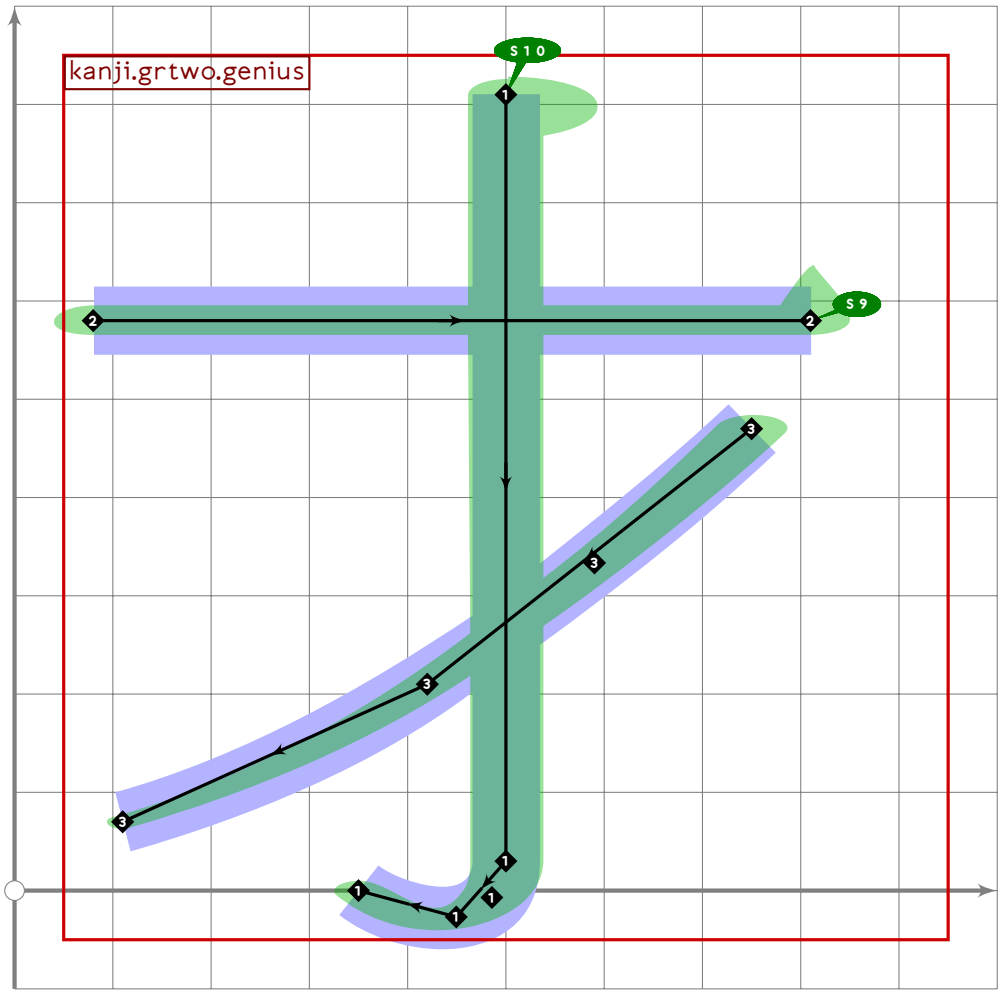
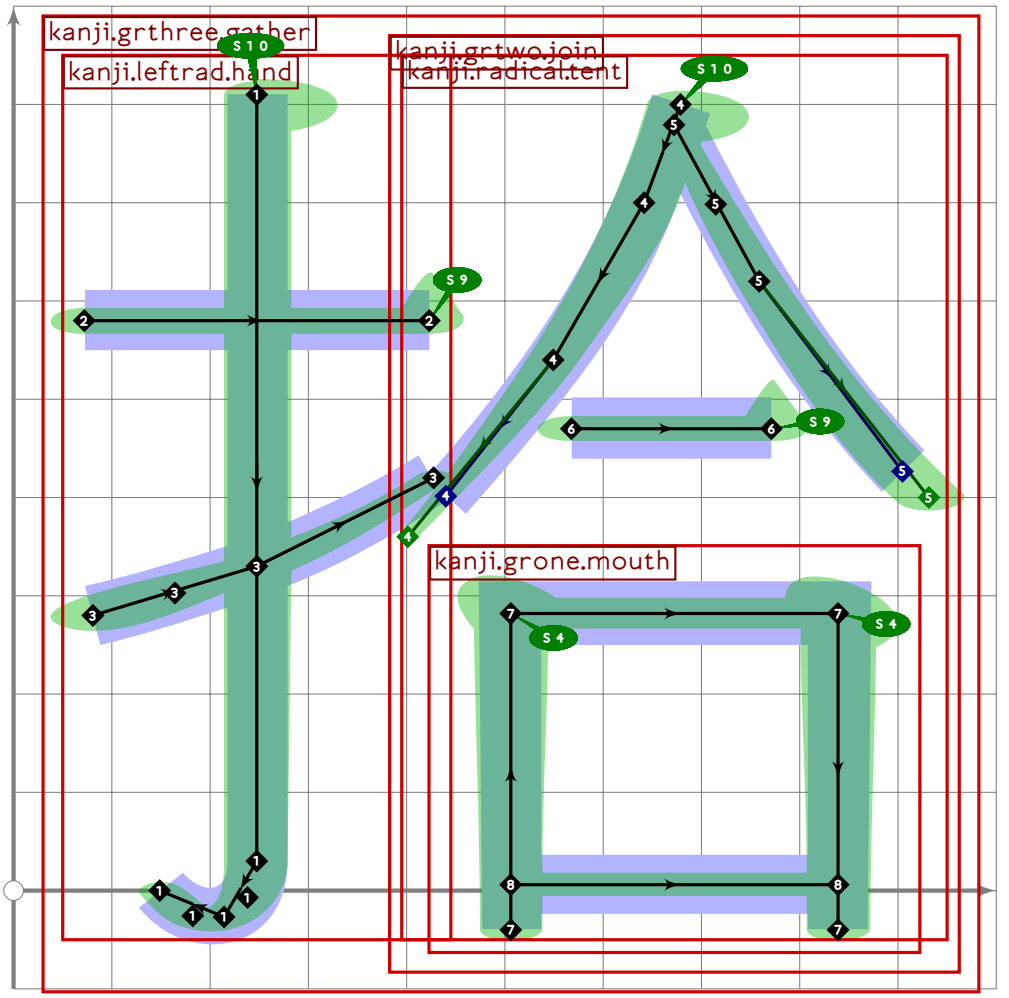
```
%
% Unicode page 62 (Kanji) for Tsukurimashou
% Copyright (C) 2011, 2012, 2013 Matthew Skala
%
[Standard copyright notice]

---

beginfont

% AUTODEPS
input buildkanji.mp;
input gradeeight.mp;
input gradefive.mp;
input gradefour.mp;
input gradeone.mp;
input gradethree.mp;
input gradetwo.mp;
input leftrad.mp;
input radical.mp;
input toprad.mp;

do_late_includes;

---
```



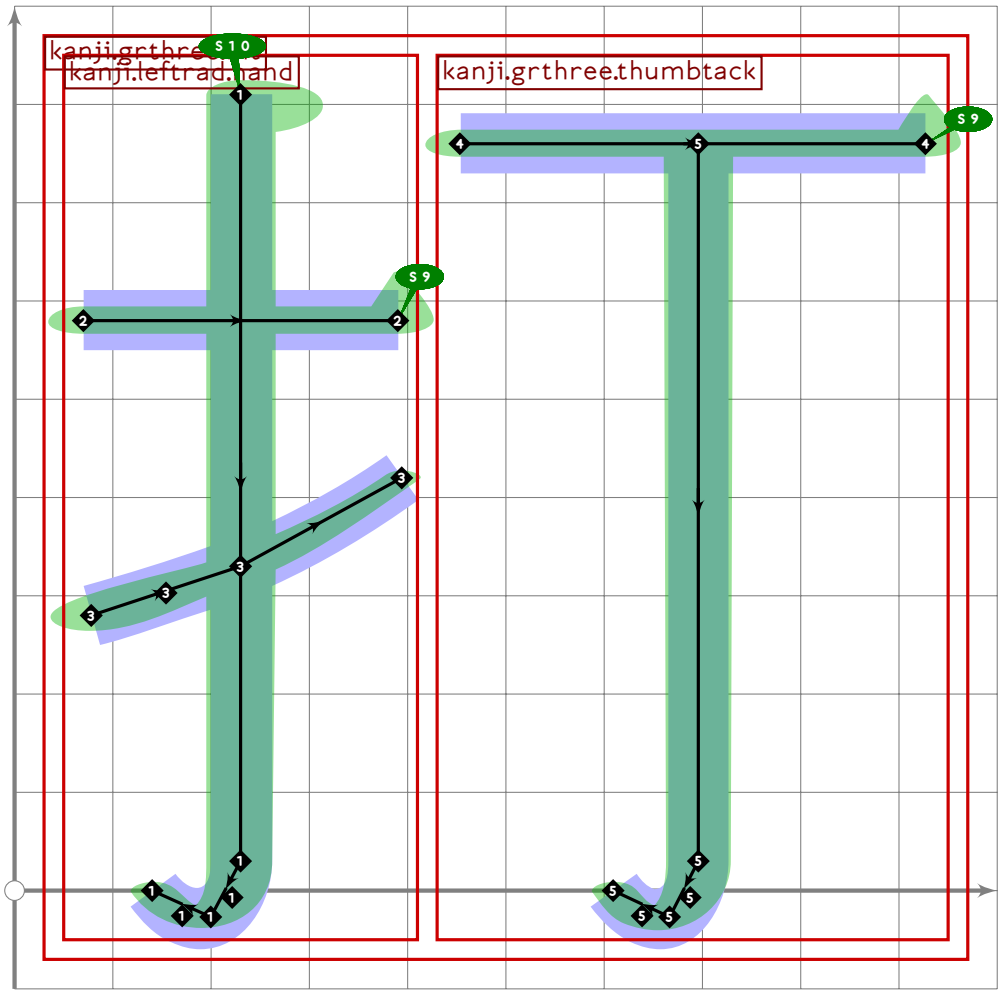

```
50
51 vardef kanji.grtwo.door =
52   push_pbox_toexpand("kanji.grtwo.door");
53   tsu_xform(identity yscaled (600/730))(kanji.radical.flag);
54   push_stroke((120,760)--(880,760),(1.6,1.6));
55   set_boserif(0,1,9);
56   set_bosize(0,95);
57   expand_pbox;
58 enddef;
```




```
vardef kanji.grtwo.genius =
  push_pbox_toexpand("kanji.grtwo.genius");
  push_stroke((500,810),(1.6,1.6));
  build_kanji.add_jtail(0);
  set_boserif(0,0,10);
  push_stroke((80,580)--(810,580),(1.6,1.6)--(1.6,1.6));
  set_boserif(0,1,9);
  push_stroke((750,470)..tension 1.2..(420,210)..(110,70),
    (1.5,1.5)--(1.2,1.2)--(1,1));
  expand_pbox;
enddef;
```

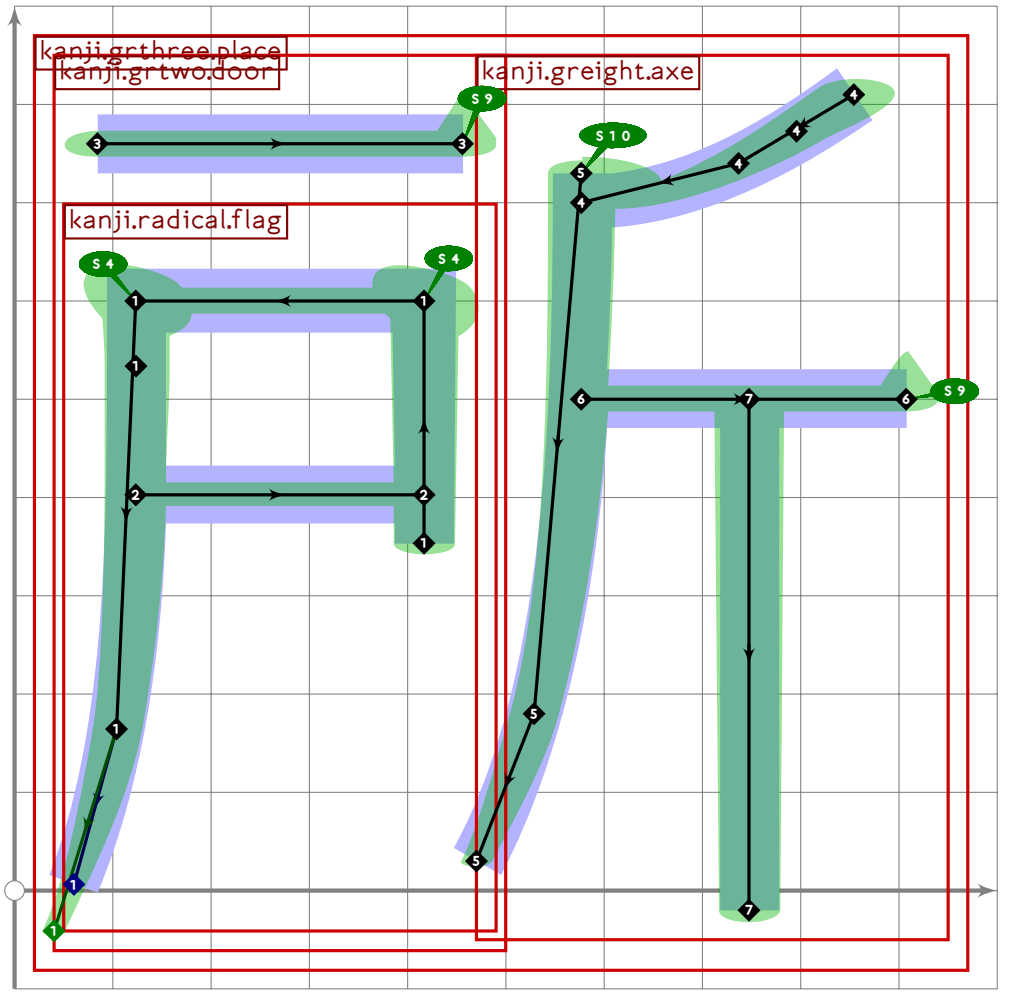



```
73
74 vardef  kanji.grthree.gather =
75   push_pbox_toexpand("kanji.grthree.gather");
76   build_kanji.level(build_kanji.lr(420,50)
77     (kanji.leftrad.hand)
78     (kanji.grtwo.join));
79   expand_pbox;
80 enddef;
```

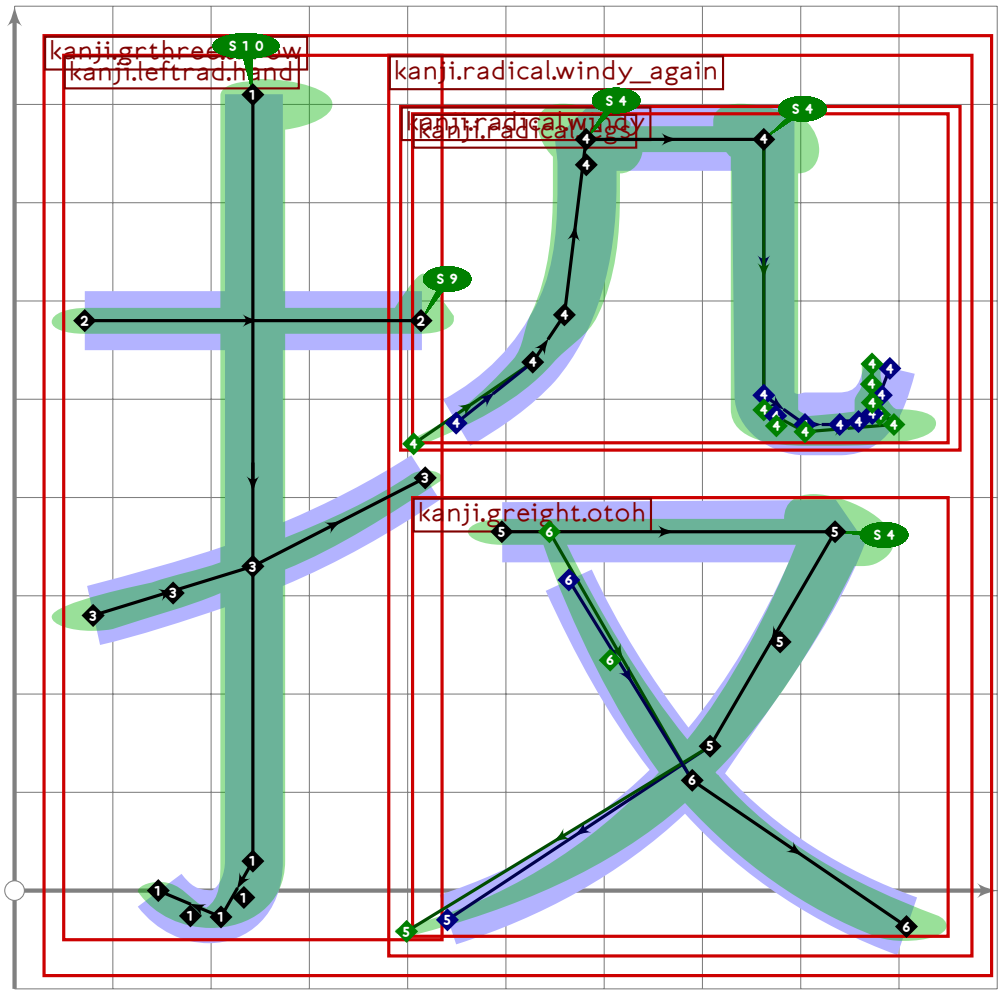



```
81
82 vardef kanji.grthree.hit =
83   push_pbox_toexpand("kanji.grthree.hit");
84   build_kanji.level(build_kanji.lr(420,-20)
85     (kanji.leftrad.hand)
86     (kanji.grthree.thumbtack));
87   expand_pbox;
88 enddef;
```

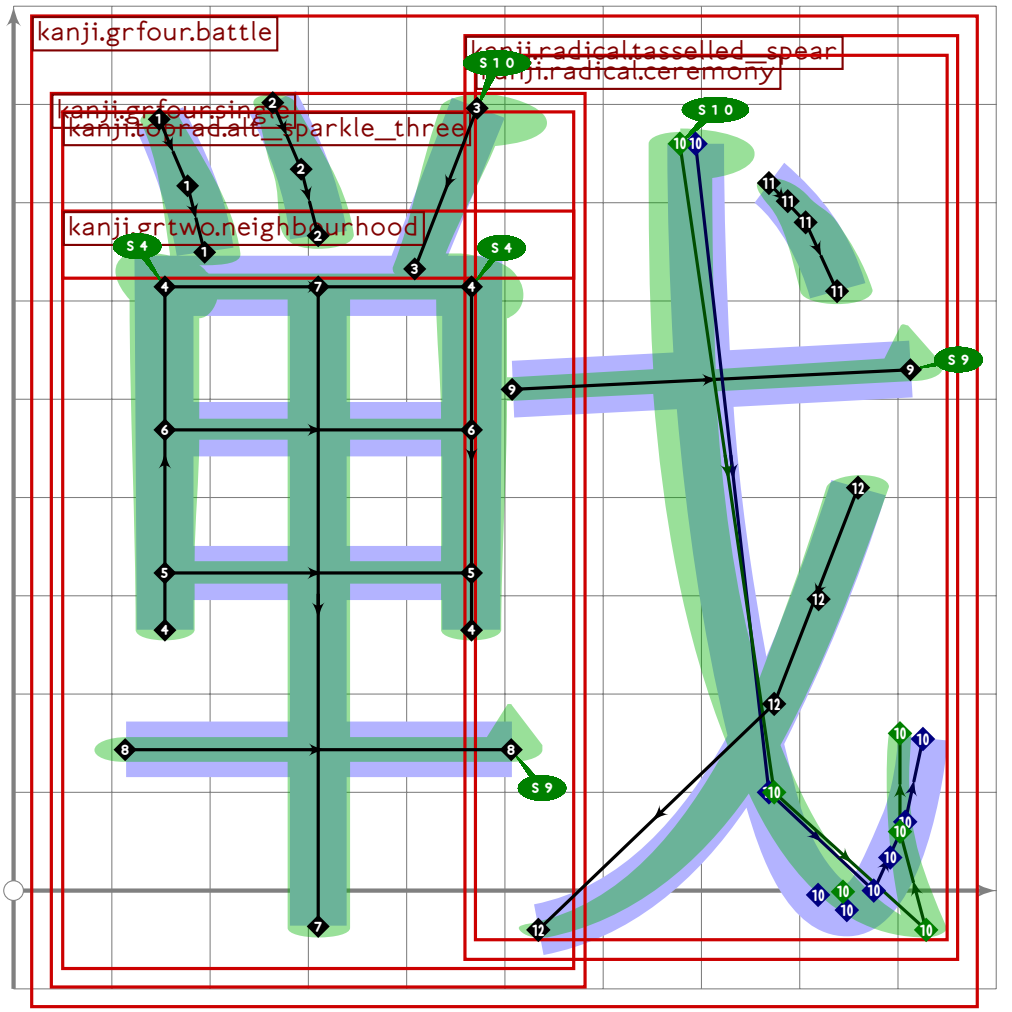
U+6240
tsuku.uni6240



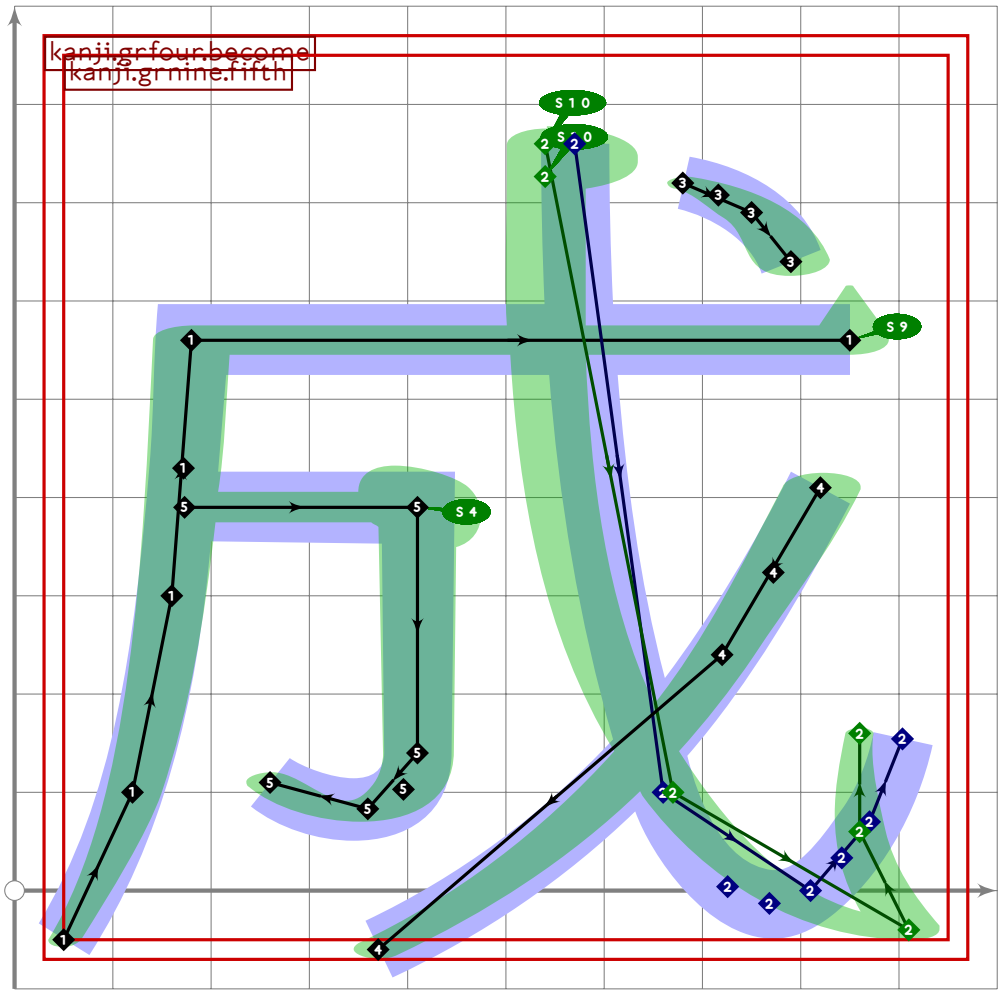

```
89
90 vardef kanji.grthree.place =
91   push_pbox_toexpand("kanji.grthree.place");
92   build_kanji.level(build_kanji.lr(480,20)
93     (kanji.grtwo.door)
94     (kanji.greight.axe));
95   expand_pbox;
96 enddef;
```



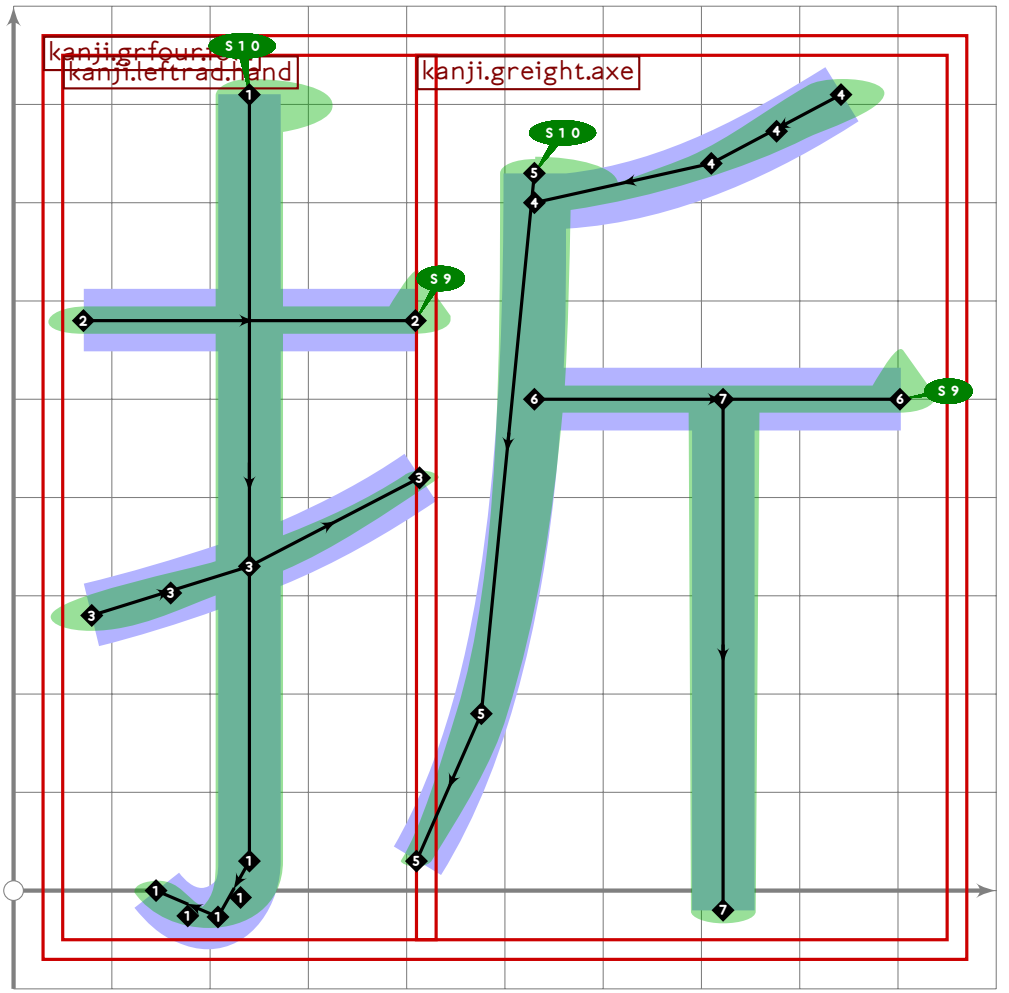

```
97
98 vardef kanji.grthree.throw =
99   push_pbox_toexpand("kanji.grthree.throw");
100  build_kanji.level(build_kanji.lr(420,30)
101    (kanji.leftrad.hand)
102    (kanji.radical.windy_again));
103  expand_pbox;
104 enddef;
105
106 ---------------------------------------------------------------------------
```



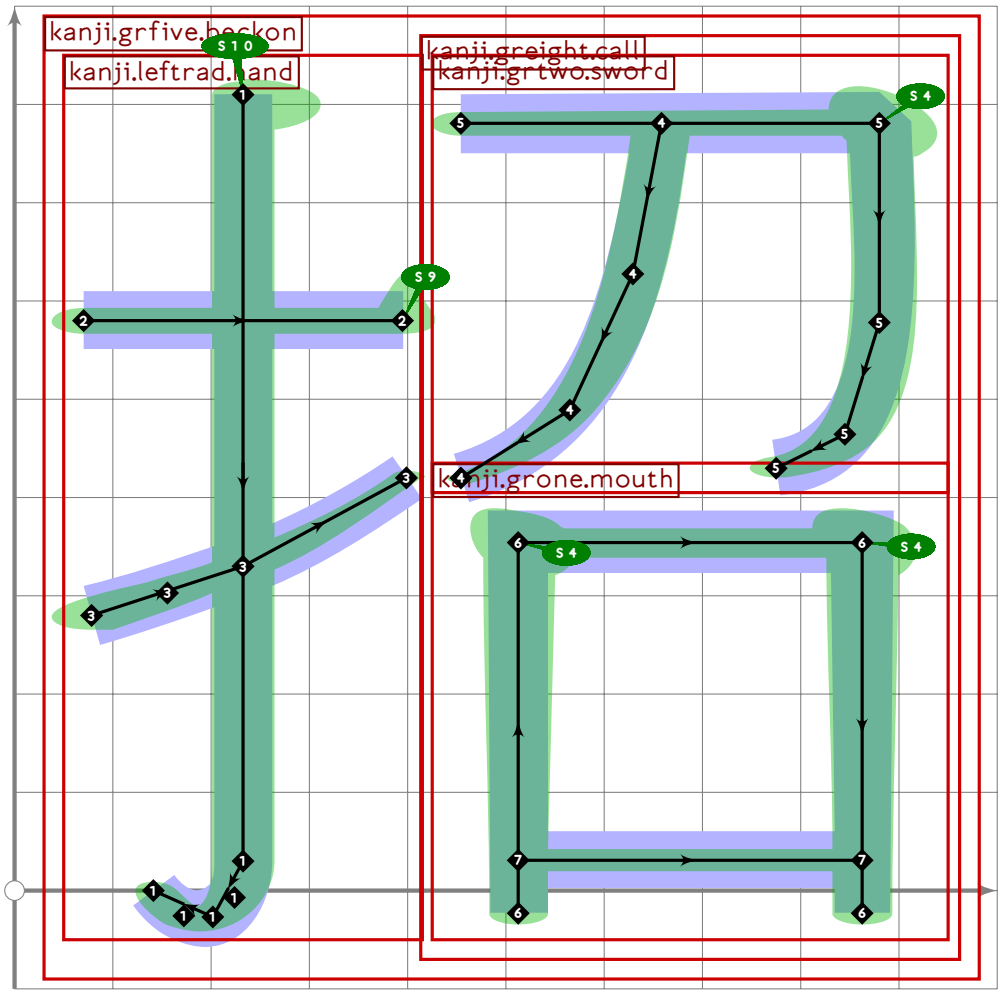

```
107
108 vardef kanji.grfour.battle =
109   push_pbox_toexpand("kanji.grfour.battle");
110   build_kanji.level(build_kanji.lr(520,100)
111     (build_kanji.sscale(yscaled 0.94 shifted (0,-30))(kanji.grfour.single))
112     (kanji.radical.tasselled_spear));
113   expand_pbox;
114 enddef;
```



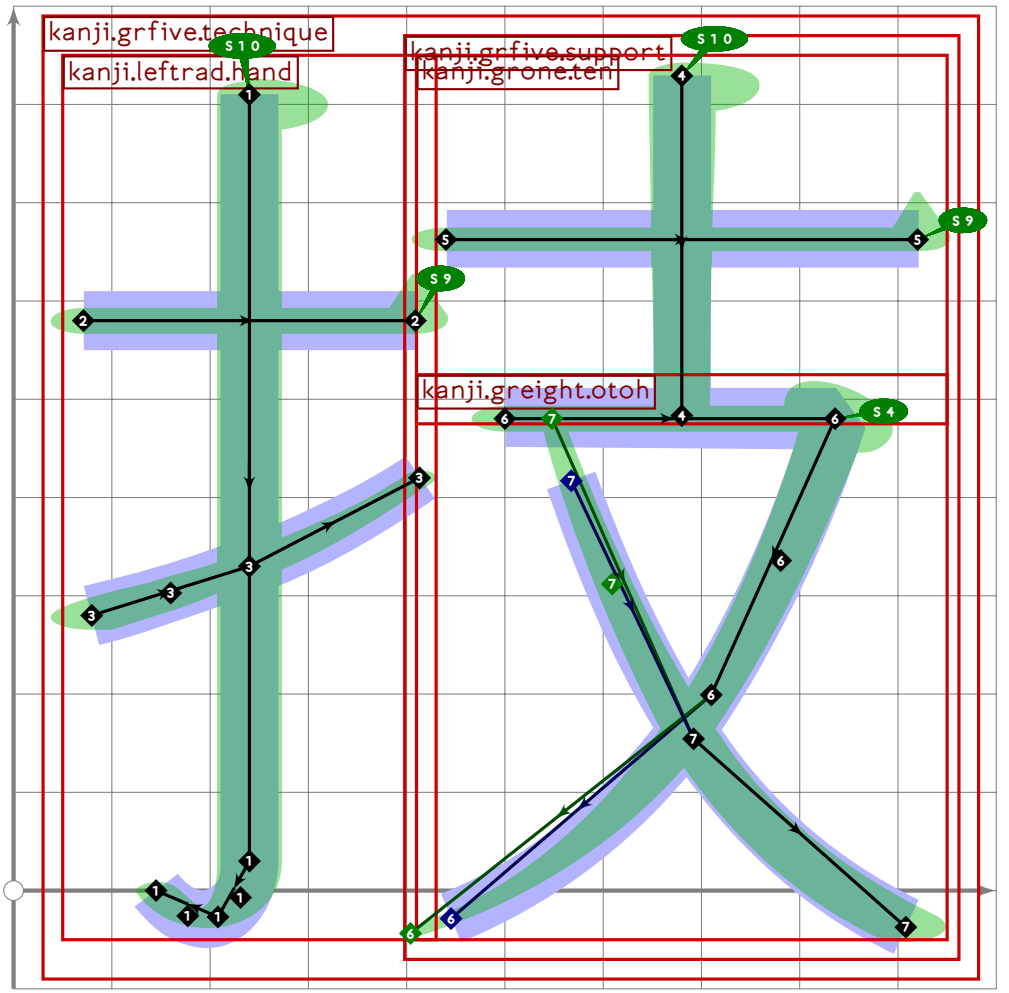

```
115
116 vardef  kanji.grfour.become =
117   push_pbox_toexpand("kanji.grfour.become");
118   kanji.grnine.fifth;
119   push_stroke((173,280)–(410,280),
120     (1.6,1.6)–(1.6,1.6));
121   build_kanji.add_jtail(0);
122   replace_strokep(0)(oldp  shifted  (0,110));
123   set_boserif(0,1,4);
124   set_botip(0,1,1);
125   expand_pbox;
126 enddef;
```



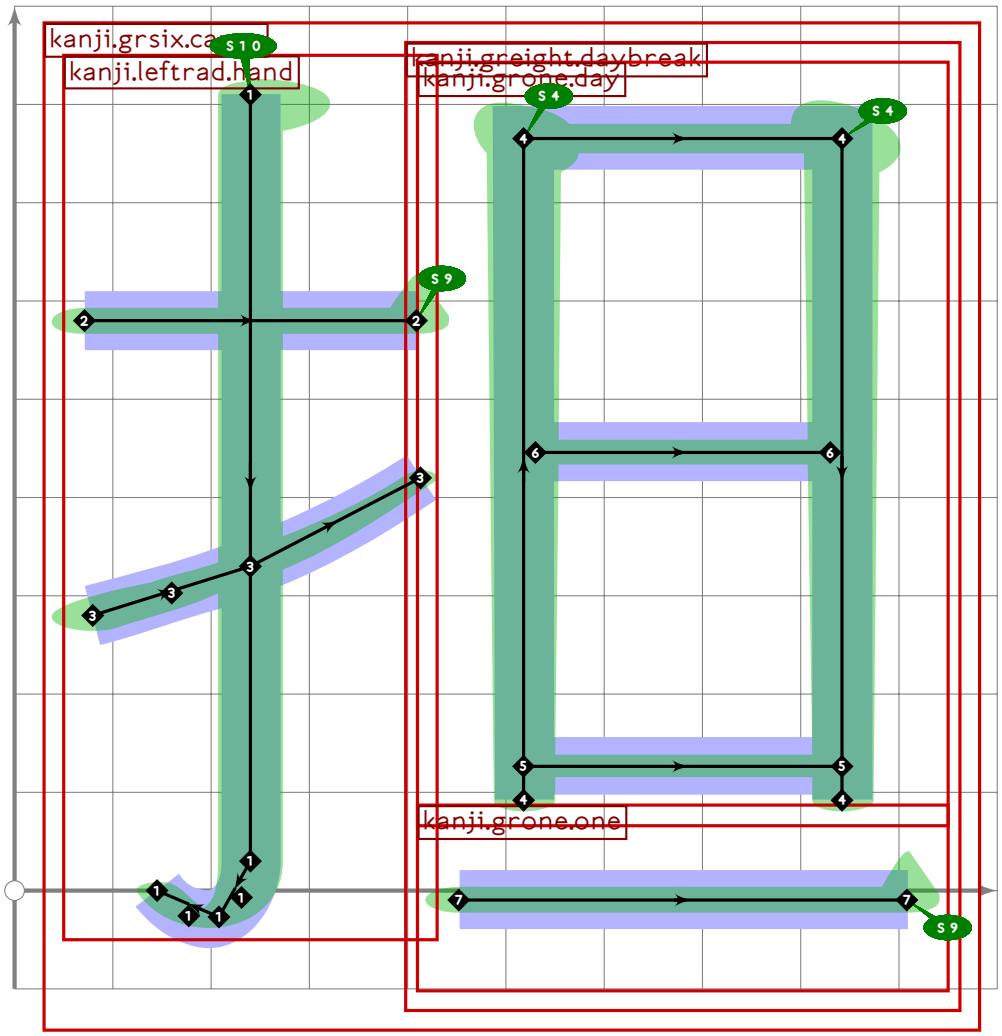

```
127
128 vardef  kanji.grfour.fold =
129   push_pbox_toexpand("kanji.grfour.fold");
130   build_kanji.level(build_kanji.lr(420,20)
131     (kanji.leftrad.hand)
132     (kanji.greight.axe));
133   expand_pbox;
134 enddef;
135
136 ---------------------------------------------------------------------------
```



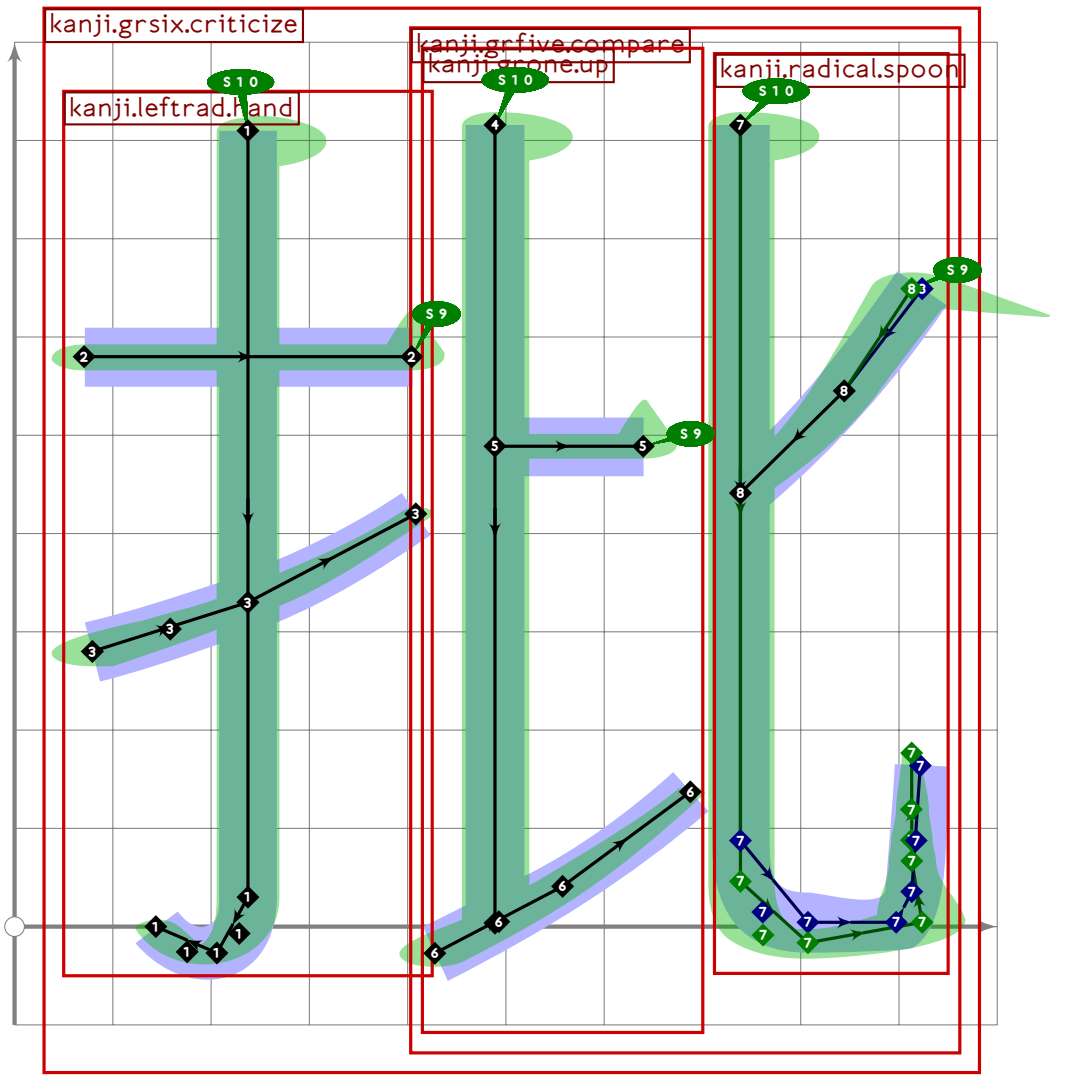

```
137
138 vardef  kanji.grfive.beckon =
139   push_pbox_toexpand("kanji.grfive.beckon");
140   build_kanji.level(build_kanji.lr(420,-10)
141     (kanji.leftrad.hand)
142     (kanji.greight.call));
143   expand_pbox;
144 enddef;
```



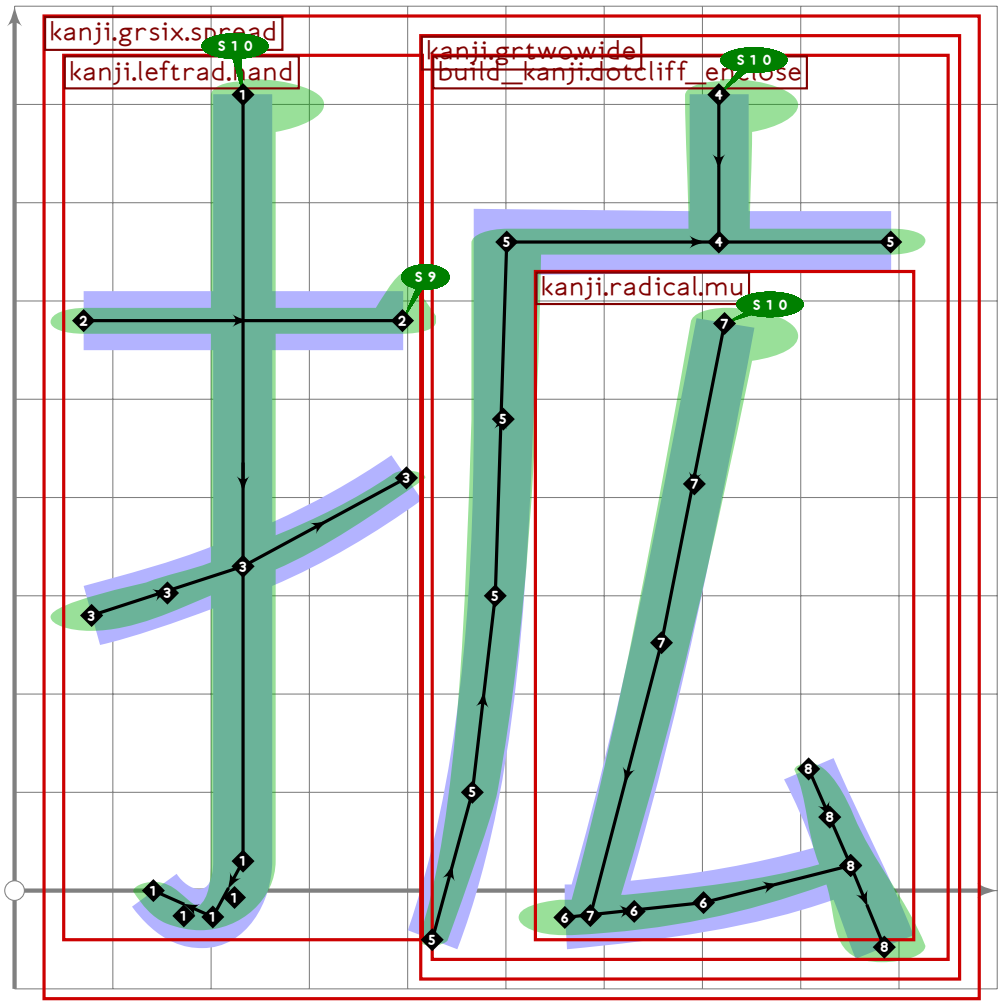

```
145
146 vardef  kanji.grfive.technique =
147   push_pbox_toexpand("kanji.grfive.technique");
148   build_kanji.level(build_kanji.lr(420,20)
149     (kanji.leftrad.hand)
150     (kanji.grfive.support));
151   expand_pbox;
152 enddef;
153
154 ---------------------------------------------------------------------------
```



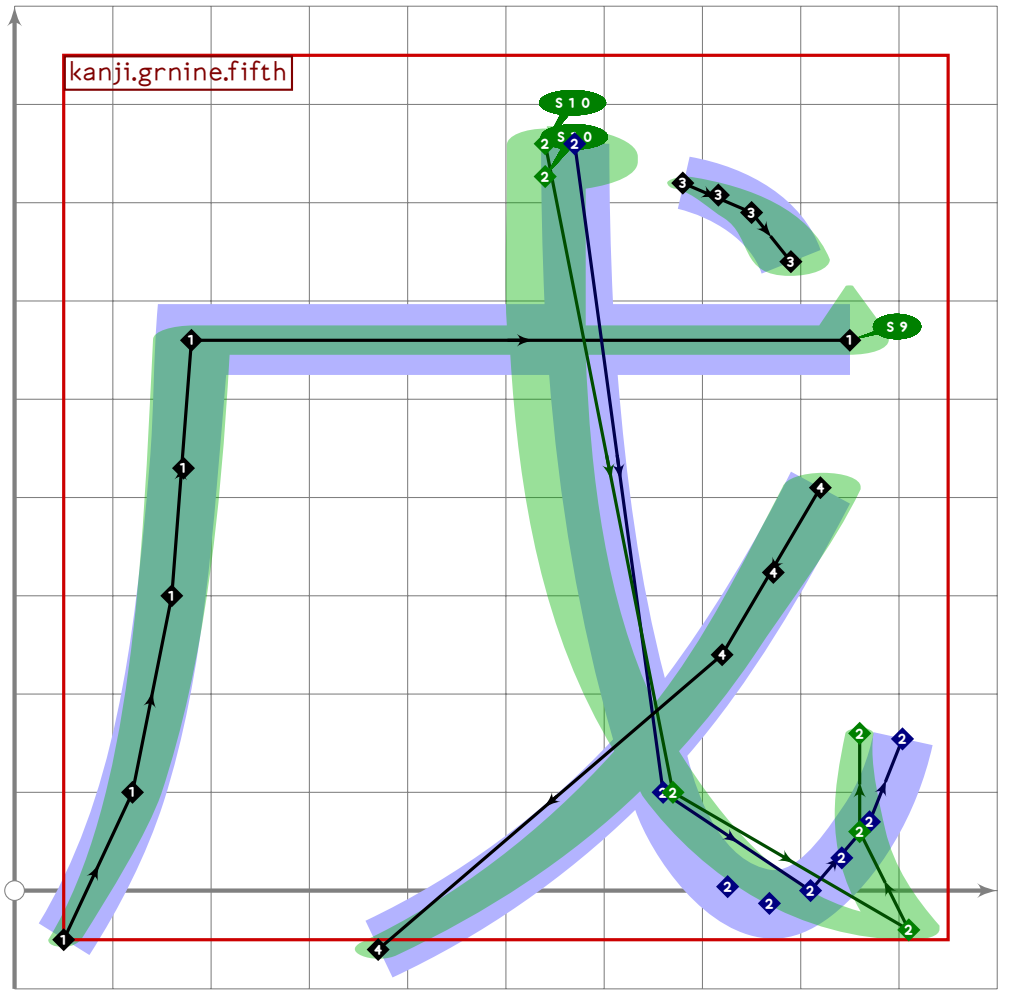

```
155
156 vardef kanji.grsix.carry =
157   push_pbox_toexpand("kanji.grsix.carry");
158   build_kanji.level(build_kanji.lr(420,20)
159     (kanji.leftrad.hand)
160     (kanji.greight.daybreak));
161   expand_pbox;
162 enddef;
```




```
163
164 vardef kanji.grsix.criticize =
165   push_pbox_toexpand("kanji.grsix.criticize");
166   build_kanji.level(build_kanji.lr(420,10)
167     (kanji.leftrad.hand)
168     (build_kanji.sscale(yscaled 1.04 shifted (0,20))
169       (kanji.grfive.compare)));
170   expand_pbox;
171 enddef;
```

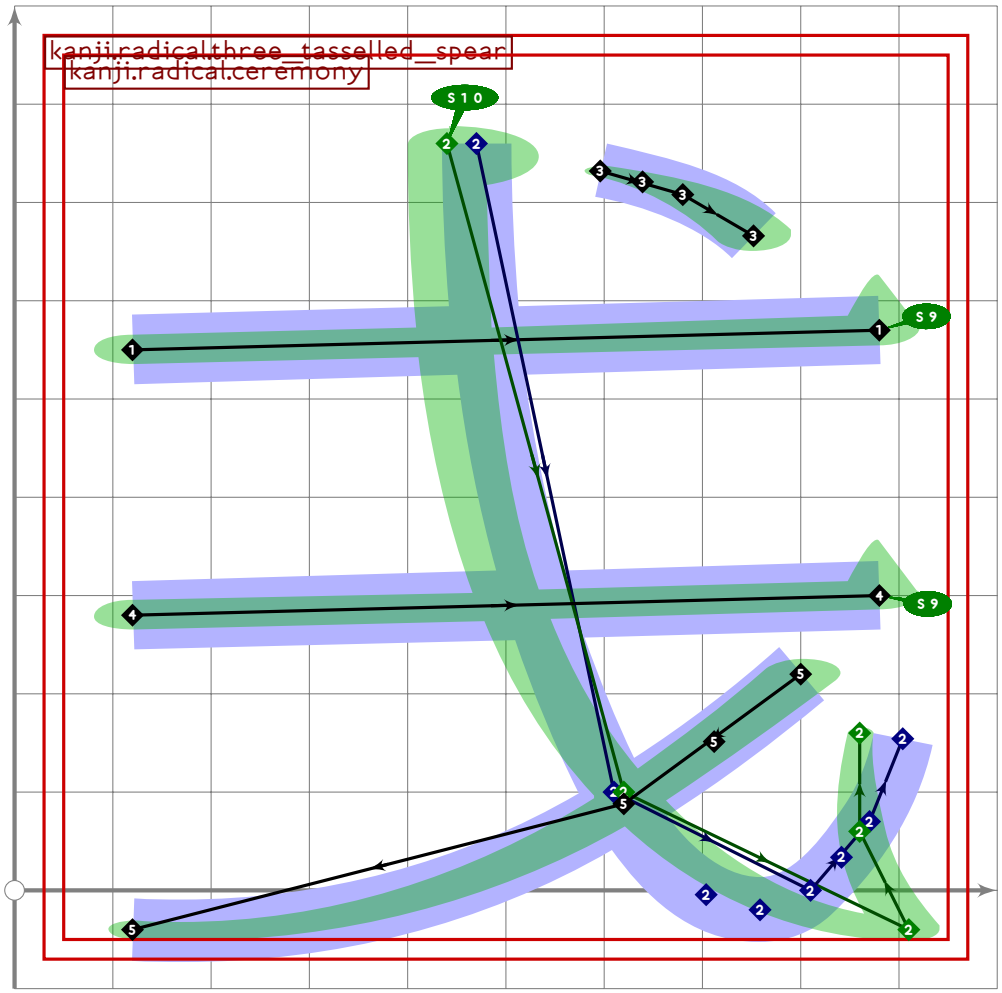



```
172
173 vardef  kanji.grsix.spread =
174   push_pbox_toexpand("kanji.grsix.spread");
175   build_kanji.level(build_kanji.lr(420,-10)
176     (kanji.leftrad.hand)
177     (kanji.grtwo.wide));
178   expand_pbox;
179 enddef;
180
181 ---------------------------------------------------------------------------
```



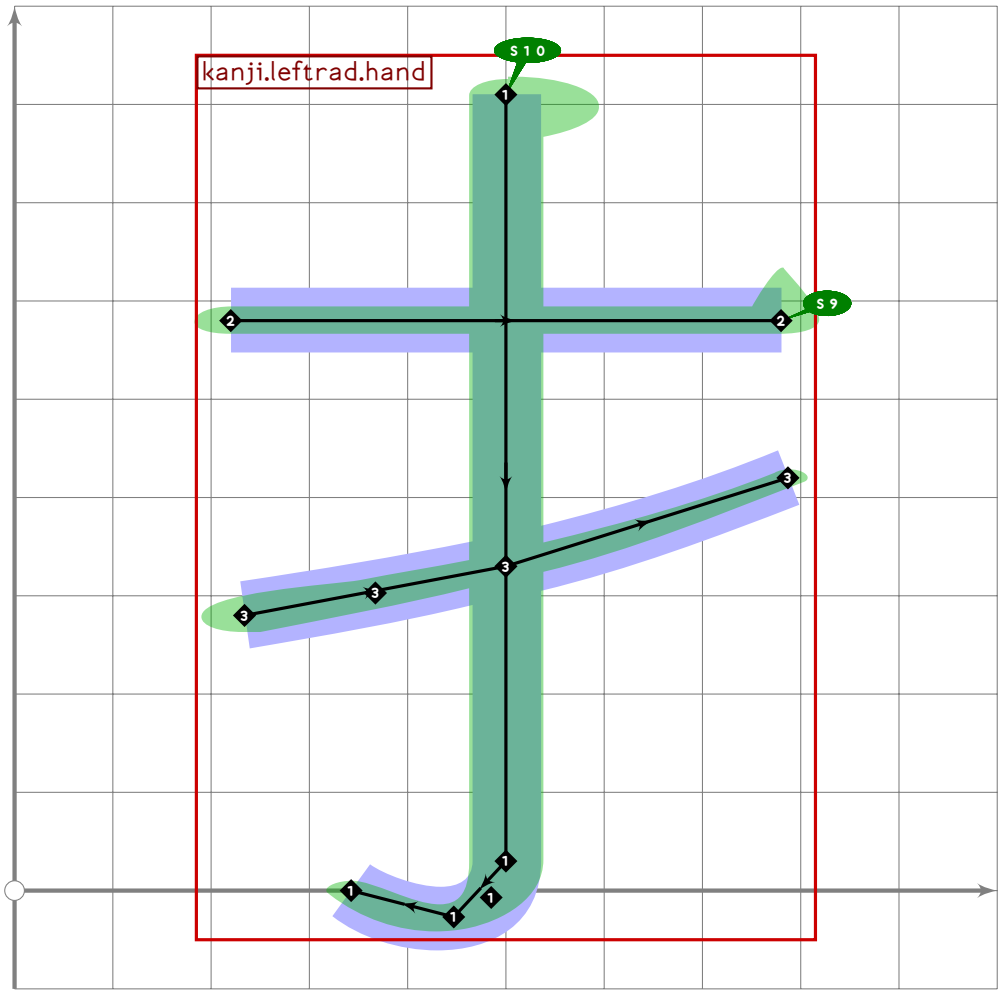

```
182
183 vardef kanji.grnine.fifth =
184   push_pbox_toexpand("kanji.grnine.fifth");
185   push_stroke((50,-50)..(120,100)..(160,300)..tension 1.2..(180,560)
186       --(850,560),
187     (1,1)--(1.3,1.3)--(1.5,1.5)--(1.6,1.6)--(1.6,1.6));
188   set_botip(0,3,1);
189   set_boserif(0,4,9);
190   push_stroke(interpath(mincho,
191       (570,760){down}..(660,100)..(810,0)..tension 1.5..
192         (870,70)..{curl 0.3}(910,200),
193       (540,760){down}..(670,100)..{right}(910,-40){curl 1}..
194         (860,60)..(860,160)),
195     (1.6,1.6)--(1.4,1.4)--(1.4,1.4)--(1.2,1.2)--(0.9,0.9));
196   set_boserif(0,0,10);
197   push_stroke((680,720)..tension 1.2..(750,690)..(790,640),
198     (1,1)..(1.5,1.5)--(1.7,1.7));
199   set_bosize(0,90);
200   push_stroke((820,410)..tension 1.2..(720,240)..(370,-60),
201     (1.6,1.6)--(1.4,1.4)--(1.2,1.2));
202   expand_pbox;
```

```
enddef;

% ka/hoko "tasselled spear radical"
begintsuglyph("uni6208",8);                                    [see page 707]
  kanji.radical.tasselled_spear;
  tsu_render;
endtsuglyph;

% bo/tsuchinoe "fifth class or calendar sign"
begintsuglyph("uni620A",10);                                   [see page 2244]
  kanji.grnine.fifth;
  tsu_render;
endtsuglyph;
```



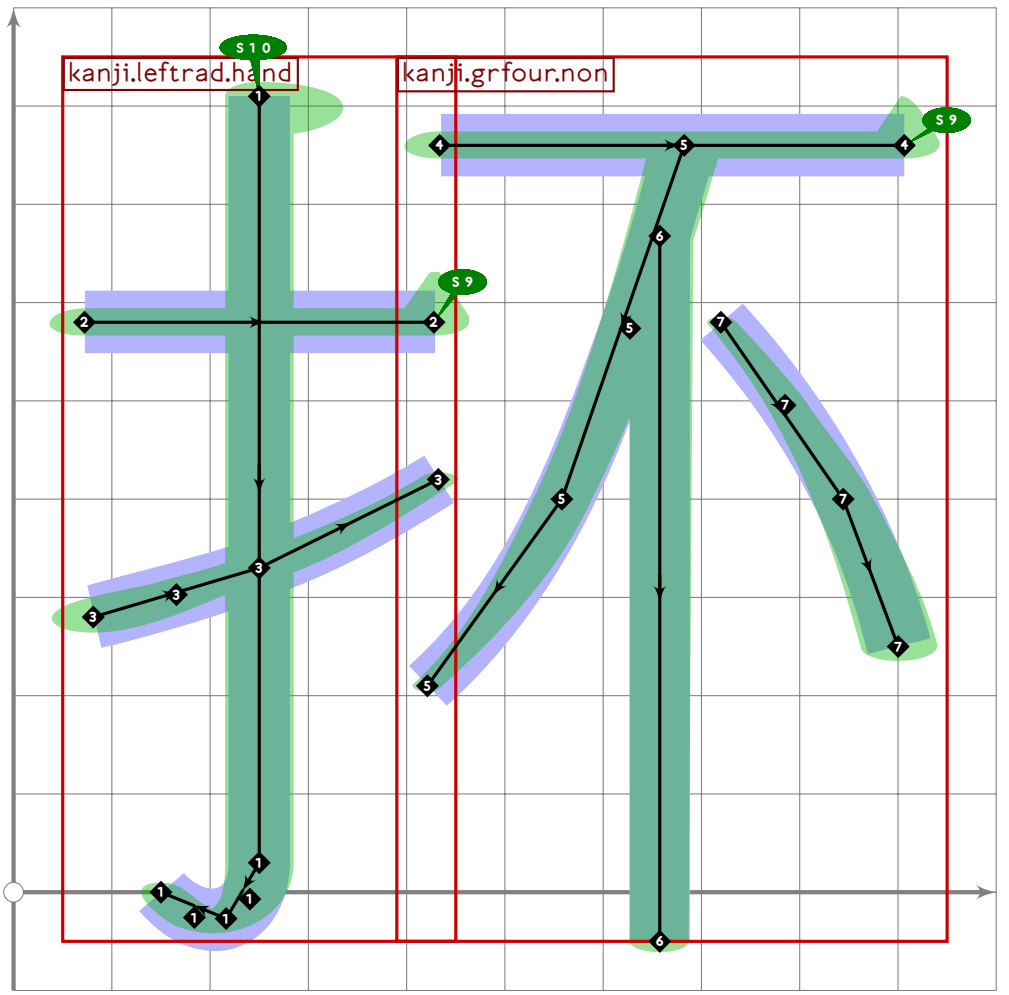

```
% Chinese-only character, and they draw it with two crossbars, but
% it's always three when it occurs as part of a Japanese character
begintsuglyph("uni620B",11);
  kanji.radical.three_tasselled_spear;
  obstacktype[find_whatever(otstroke,-2)]:=otnull;
```

```
  tsu_render;
endtsuglyph;

% sei/na (as in "naru") "become"
begintsuglyph("uni6210",16);                                    [see page 2237]
  kanji.grfour.become;
  tsu_render;
endtsuglyph;

% kai/imashi "precept"
begintsuglyph("uni6212",18);                                     [see page 755]
  kanji.greight.precept;
  tsu_render;
endtsuglyph;

% sen/ikusa "battle"
begintsuglyph("uni6226",38);                                    [see page 2236]
  kanji.grfour.battle;
  tsu_render;
endtsuglyph;

% ko/to "door"
begintsuglyph("uni6238",56);                                    [see page 2230]
  kanji.grtwo.door;
  tsu_render;
endtsuglyph;

% sho/tokoro "place"
begintsuglyph("uni6240",64);                                    [see page 2234]
  kanji.grthree.place;
  tsu_render;
endtsuglyph;

% te "hand"
begintsuglyph("uni624B",75);                                     [see page 439]
  kanji.grone.hand;
  tsu_render;
endtsuglyph;

```




```
% hand radical
begintsuglyph("uni624C",76);
  build_kanji.sscale(xscaled 0.7)(kanji.leftrad.hand);
  tsu_render;
endtsuglyph;

% sai "genius" or "years of age"
begintsuglyph("uni624D",77);                                  [see page 2231]
  kanji.grtwo.genius;
  tsu_render;
endtsuglyph;

% da/u "hit"
begintsuglyph("uni6253",83);                                  [see page 2233]
  kanji.grthree.hit;
  tsu_render;
endtsuglyph;

% hi "criticize"
begintsuglyph("uni6279",121);                                 [see page 2242]
  kanji.grsix.criticize;
```

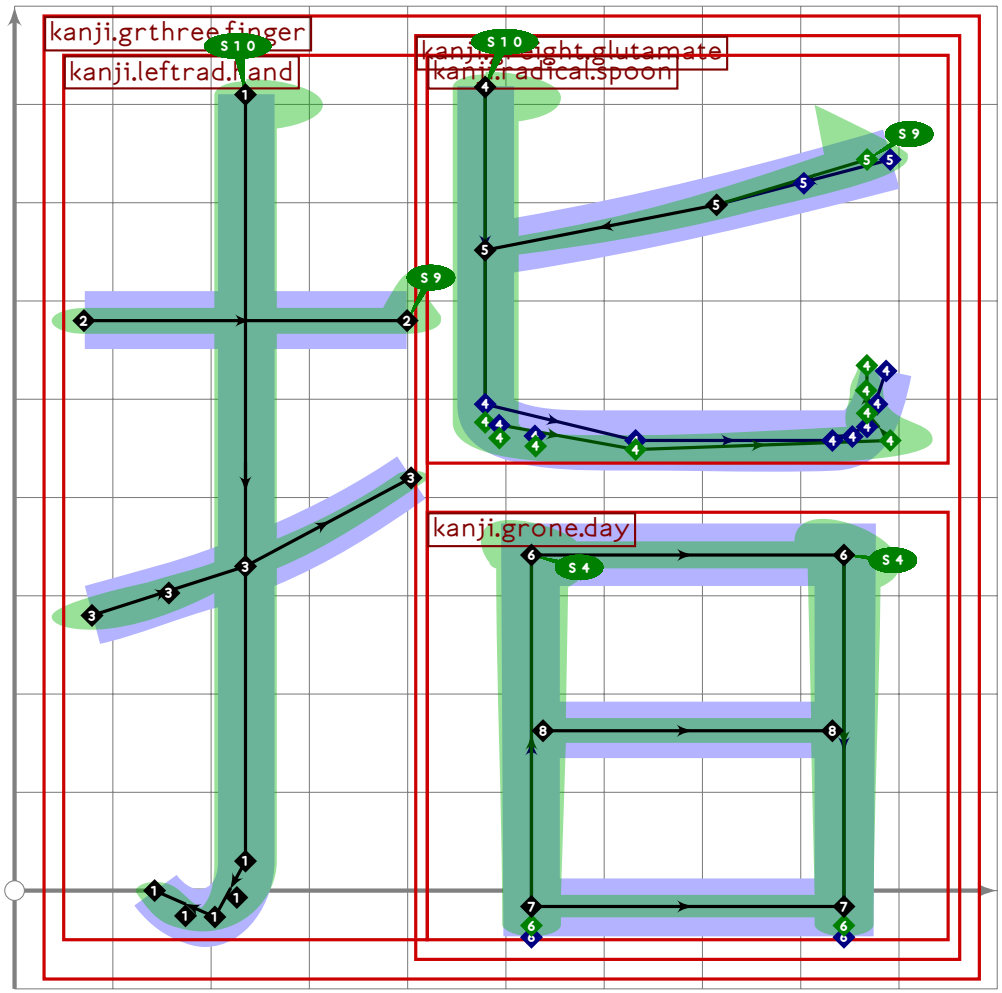
```
  tsu_render;
endtsuglyph;

% gi/waza "technique"
begintsuglyph("uni6280",128);                                    [see page 2240]
  kanji.grfive.technique;
  tsu_render;
endtsuglyph;

% tou/na "throw"
begintsuglyph("uni6295",149);                                    [see page 2235]
  kanji.grthree.throw;
  tsu_render;
endtsuglyph;
```




```
% extra:  hou/nado "etcetera"
begintsuglyph("uni6294",148);
  build_kanji.level(build_kanji.lr(420,60)
    (kanji.leftrad.hand)
    (kanji.grfour.non));
  tsu_render;
```

```
endtsuglyph;

% satsu/o "fold" (o as in origami)
begintsuglyph("uni6298",152);                                   [see page 2238]
  kanji.grfour.fold;
  tsu_render;
endtsuglyph;

% tan/katsu "carry"
begintsuglyph("uni62C5",197);                                   [see page 2241]
  kanji.grsix.carry;
  tsu_render;
endtsuglyph;

% shou/mane "beckon" (as in manekineko)
begintsuglyph("uni62DB",219);                                   [see page 2239]
  kanji.grfive.beckon;
  tsu_render;
endtsuglyph;

% kaku/hiro "spread"
begintsuglyph("uni62E1",225);                                   [see page 2243]
  kanji.grsix.spread;
  tsu_render;
endtsuglyph;

% shuu/hiro "gather"
begintsuglyph("uni62FE",254);                                   [see page 2232]
  kanji.grthree.gather;
  tsu_render;
endtsuglyph;

---

endfont;

---
```

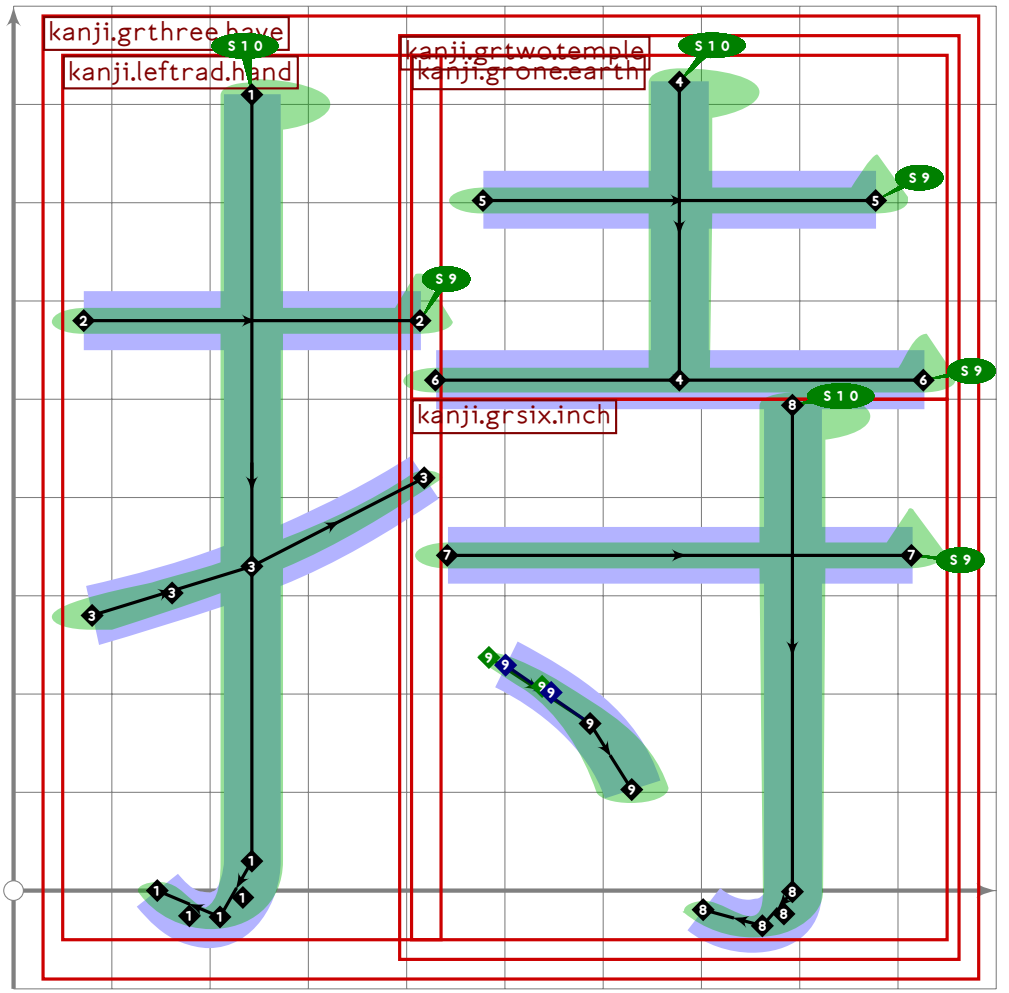
```
%
% Unicode page 63 (Kanji) for Tsukurimashou
% Copyright (C) 2011, 2012 Matthew Skala
%
[Standard copyright notice]

---

beginfont

% AUTODEPS
input buildkanji.mp;
input gradeeight.mp;
input gradefive.mp;
input gradeone.mp;
input gradesix.mp;
input gradetwo.mp;
input leftrad.mp;
input radical.mp;
input toprad.mp;

do_late_includes;

---
```



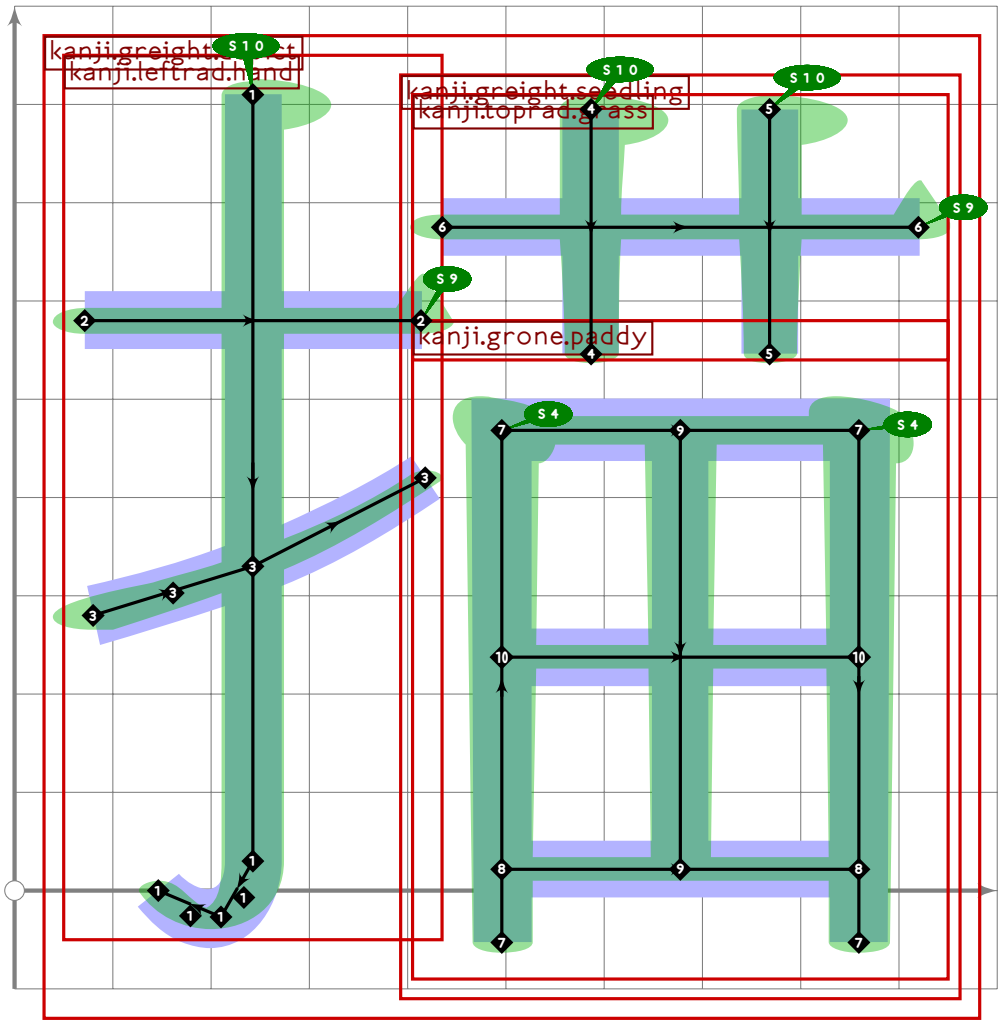

```
49
50 vardef kanji.grthree.finger =
51   push_pbox_toexpand("kanji.grthree.finger");
52   build_kanji.level(build_kanji.lr(420,0)
53     (kanji.leftrad.hand)
54     (kanji.greight.glutamate));
55   expand_pbox;
56 enddef;
```

U+6301
tsuku.uni6301

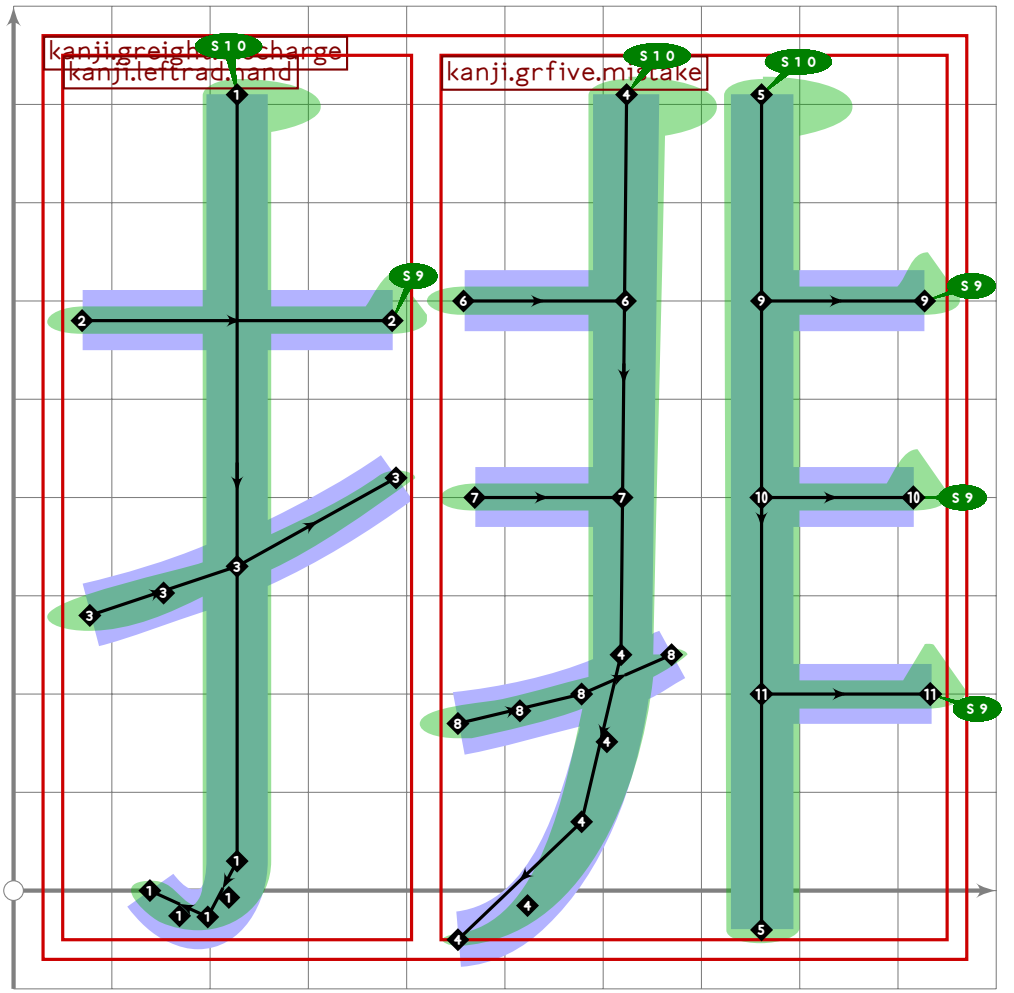
63




```
57
58 vardef  kanji.grthree.have =
59   push_pbox_toexpand("kanji.grthree.have");
60   build_kanji.level(build_kanji.lr(420,30)
61     (kanji.leftrad.hand)
62     (kanji.grtwo.temple));
63   expand_pbox;
64 enddef;
65
66 ---------------------------------------------------------------------
```



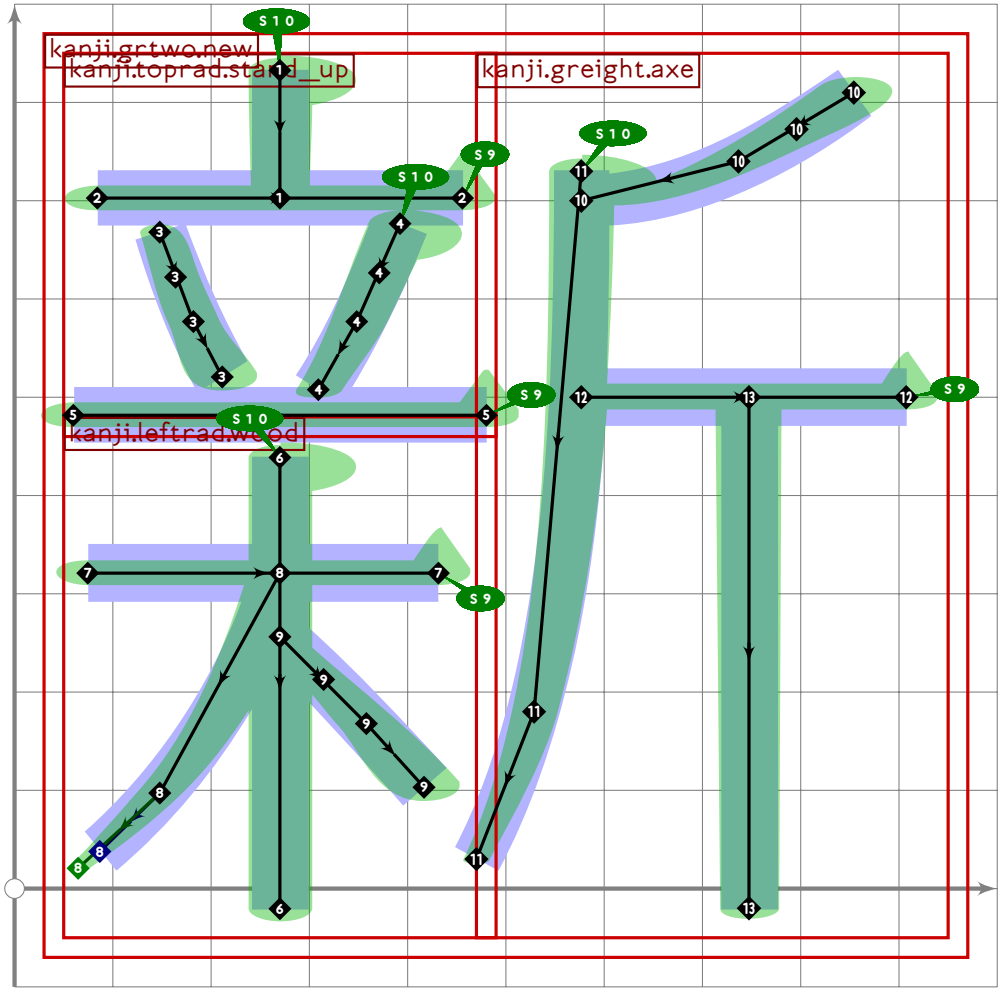

```
vardef kanji.greight.depict =
  push_pbox_toexpand("kanji.greight.depict");
  build_kanji.level(build_kanji.lr(420,30)
    (kanji.leftrad.hand)
    (build_kanji.sscale(shifted (0,-40))(kanji.greight.seedling)));
  expand_pbox;
enddef;
```



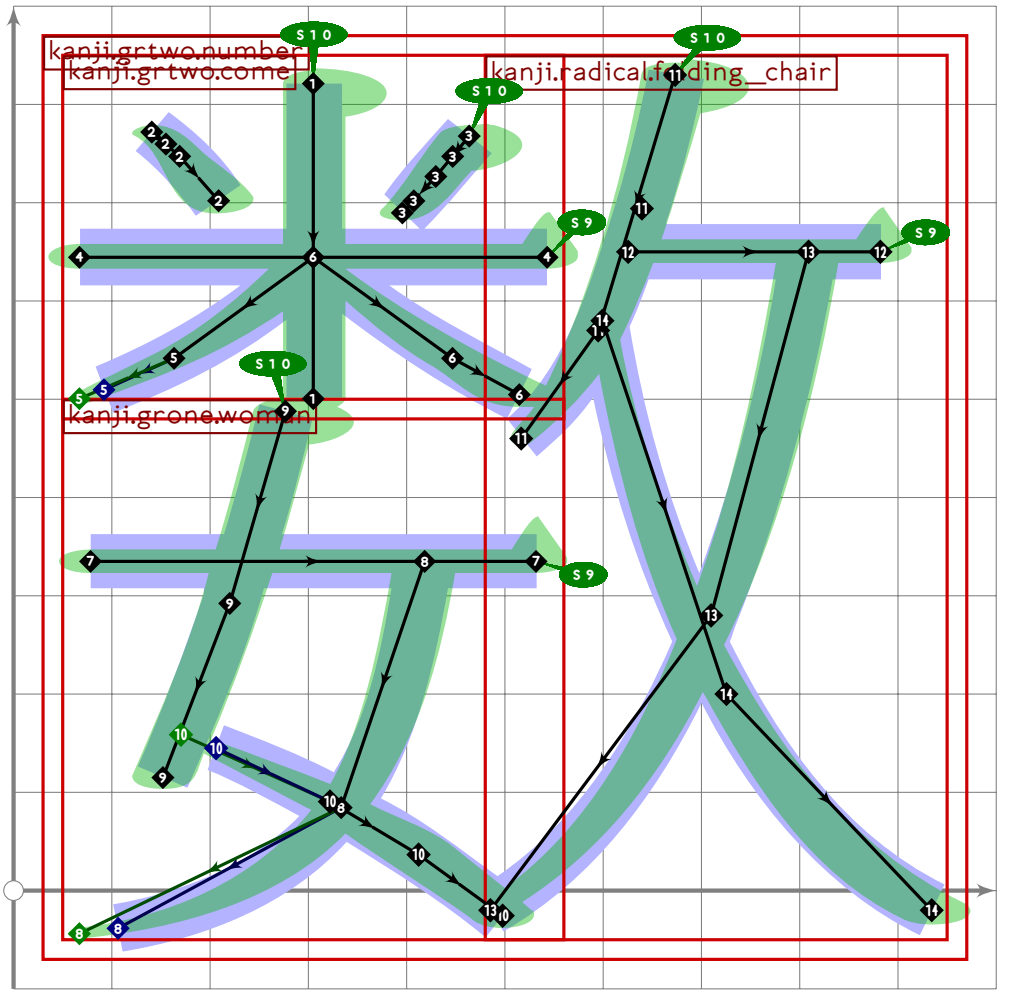

```
75
76 vardef kanji.greight.discharge =
77   push_pbox_toexpand("kanji.greight.discharge");
78   build_kanji.level(build_kanji.lr(420,-30)
79     (kanji.leftrad.hand)
80     (kanji.grfive.mistake));
81   expand_pbox;
82 enddef;
83
84 ---------------------------------------------------------------
85
86 % ji/mo "have"
87 begintsuglyph("uni6301",1);                          [see page 2252]
88   kanji.grthree.have;
89   tsu_render;
90 endtsuglyph;
91
92 % shi/yubi "finger"
93 begintsuglyph("uni6307",7);                          [see page 2251]
94   kanji.grthree.finger;
95   tsu_render;
```

```
endtsuglyph;

% hai "discharge"
begintsuglyph("uni6392",146);                                  [see page 2254]
  kanji.greight.discharge;
  tsu_render;
endtsuglyph;

% byou/ega "depict"
begintsuglyph("uni63CF",207);                                  [see page 2253]
  kanji.greight.depict;
  tsu_render;
endtsuglyph;

---

endfont;

---
```

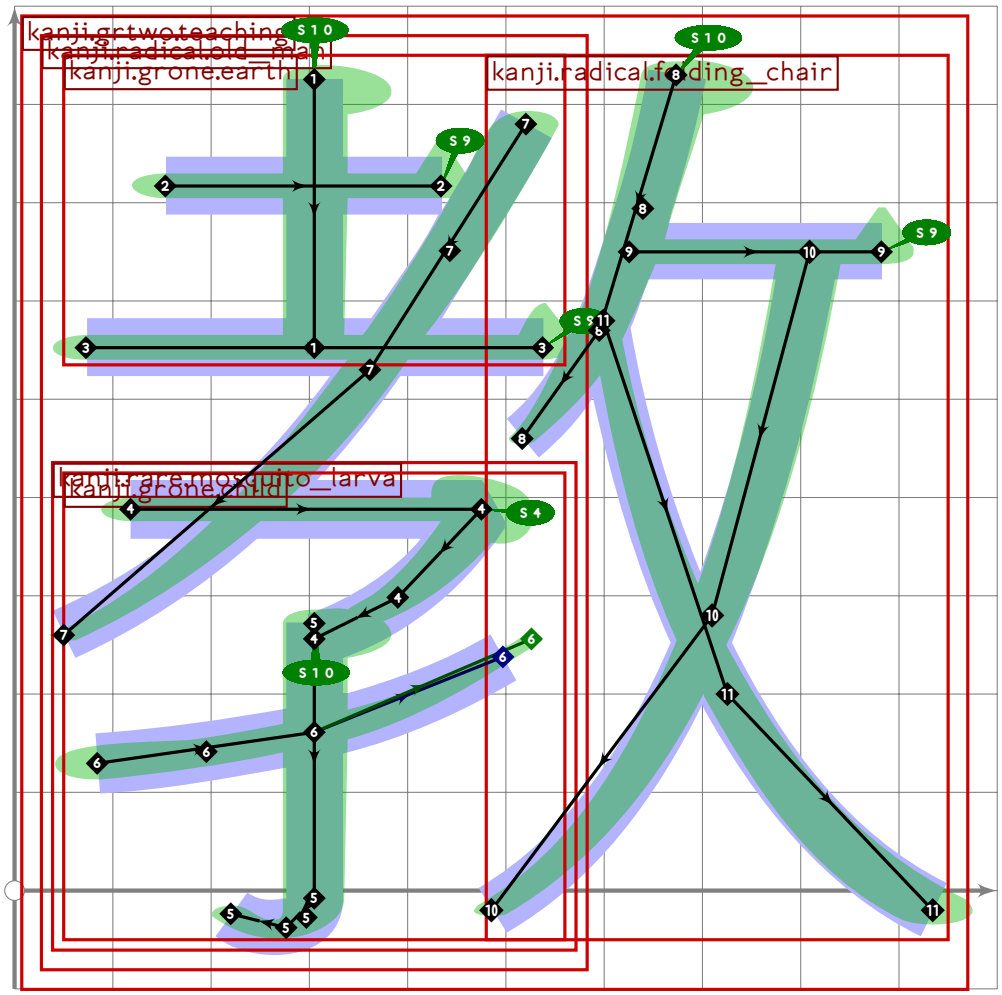
```
%
% Unicode page 65 (Kanji) for Tsukurimashou
% Copyright (C) 2011, 2012, 2013 Matthew Skala
%
[Standard copyright notice]

---

beginfont

% AUTODEPS
input bottomrad.mp;
input buildkanji.mp;
input gradeeight.mp;
input gradefive.mp;
input gradefour.mp;
input gradenine.mp;
input gradeone.mp;
input gradesix.mp;
input gradetwo.mp;
input leftrad.mp;
input radical.mp;
input rare.mp;
input toprad.mp;

do_late_includes;

---
```




```
53
54 vardef kanji.grtwo.new =
55   push_pbox_toexpand("kanji.grtwo.new");
56   build_kanji.level(build_kanji.lr(480,20)
57     (build_kanji.tb(470,20)
58         (kanji.toprad.stand_up)
59         (kanji.leftrad.wood))
60     (kanji.greight.axe));
61   expand_pbox;
62 enddef;
```

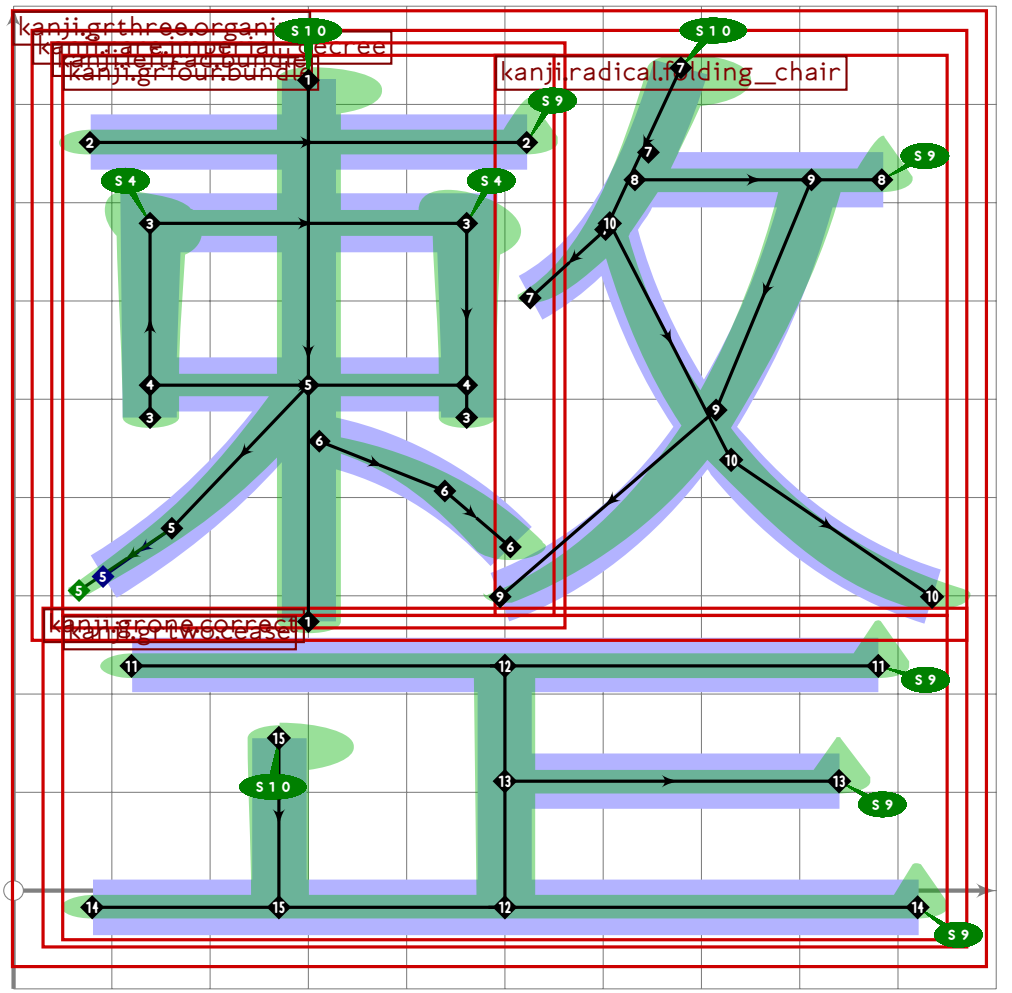



```
vardef kanji.grtwo.number =
  push_pbox_toexpand("kanji.grtwo.number");
  build_kanji.level(build_kanji.lr(520,80)
    (build_kanji.tb(490,20)
        (kanji.grtwo.come;
         set_bosize(-5,0);
         replace_strokep(-4)(oldp shifted (0,80));
         replace_strokeq(-4)((1.2,1.2)--(1.4,1.4)--(1.7,1.7));
         set_boserif(-4,0,whatever);
         replace_strokep(-3)(oldp shifted (0,60)))
        (kanji.grone.woman))
    (kanji.radical.folding_chair));
  expand_pbox;
enddef;
```

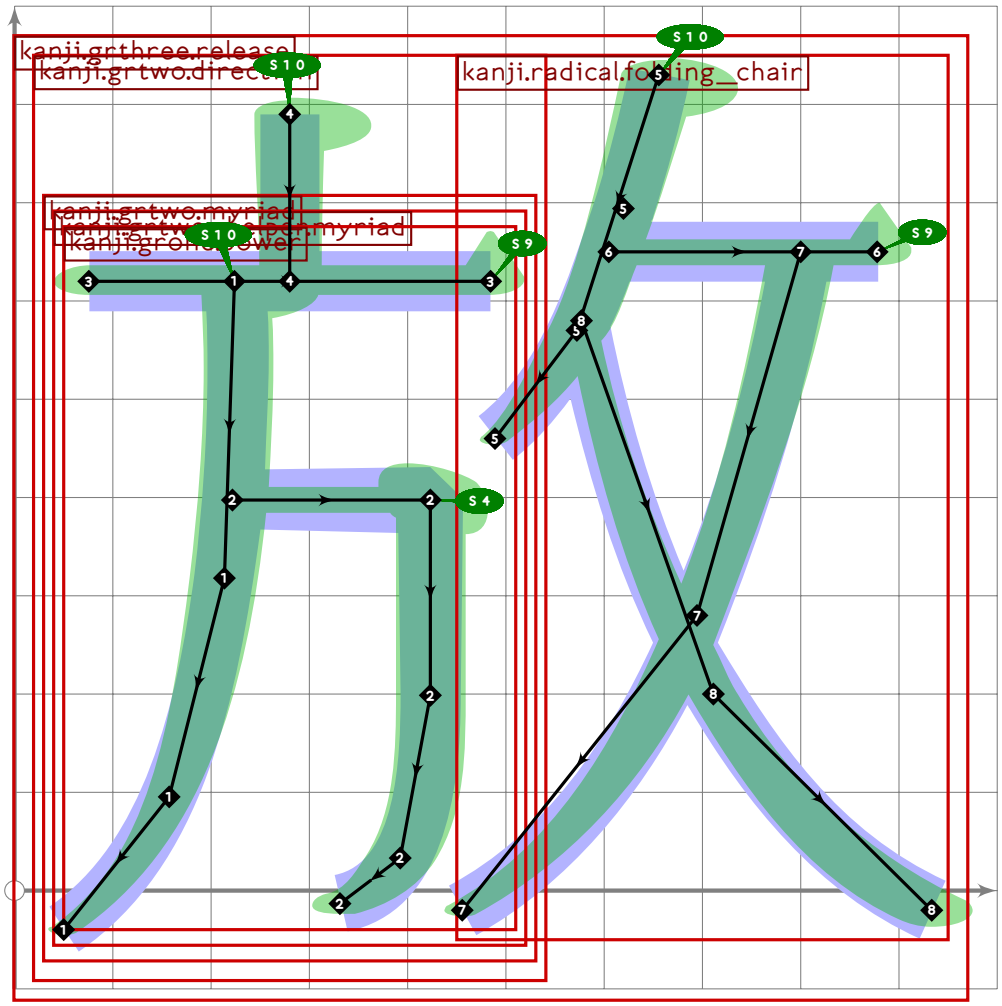



```
78
79 vardef kanji.grtwo.teaching =
80   push_pbox_toexpand("kanji.grtwo.teaching");
81   build_kanji.level(build_kanji.lr(520,80)
82     (kanji.radical.old_man(kanji.rare.mosquito_larva))
83     (kanji.radical.folding_chair));
84   expand_pbox;
85 enddef;
86
87 ---------------------------------------------------------
```

U+6574
tsuku.uni6574

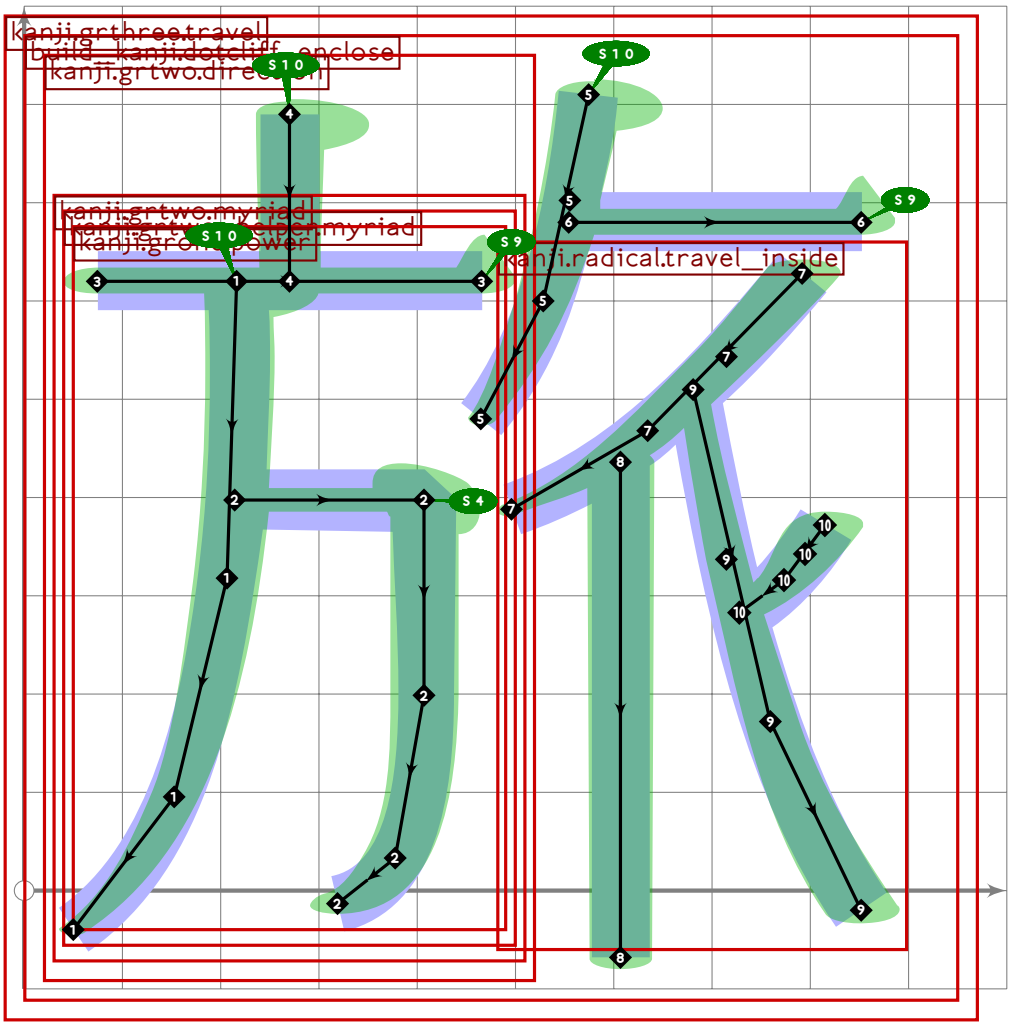



```
88
89 vardef kanji.grthree.organize =
90   push_pbox_toexpand("kanji.grthree.organize");
91   build_kanji.level(build_kanji.tb(280,0)
92     (kanji.rare.imperial_decree)
93     (kanji.grone.correct));
94   expand_pbox;
95 enddef;
```

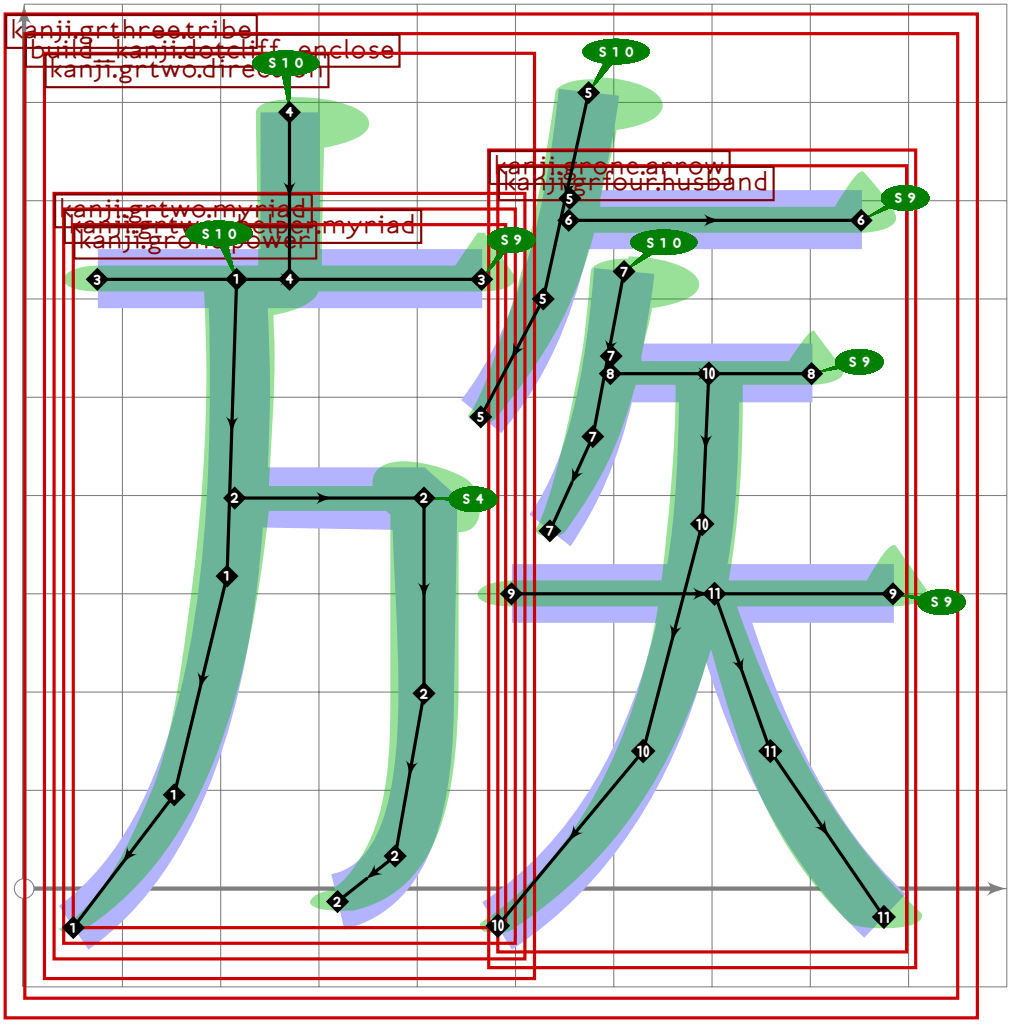



```
96
97 vardef  kanji.grthree.release =
98   push_pbox_toexpand("kanji.grthree.release");
99   build_kanji.level(build_kanji.lr(480,60)
100     (kanji.grtwo.direction)
101     (kanji.radical.folding_chair));
102   expand_pbox;
103 enddef;
```

U+65C5
tsuku.uni65C5

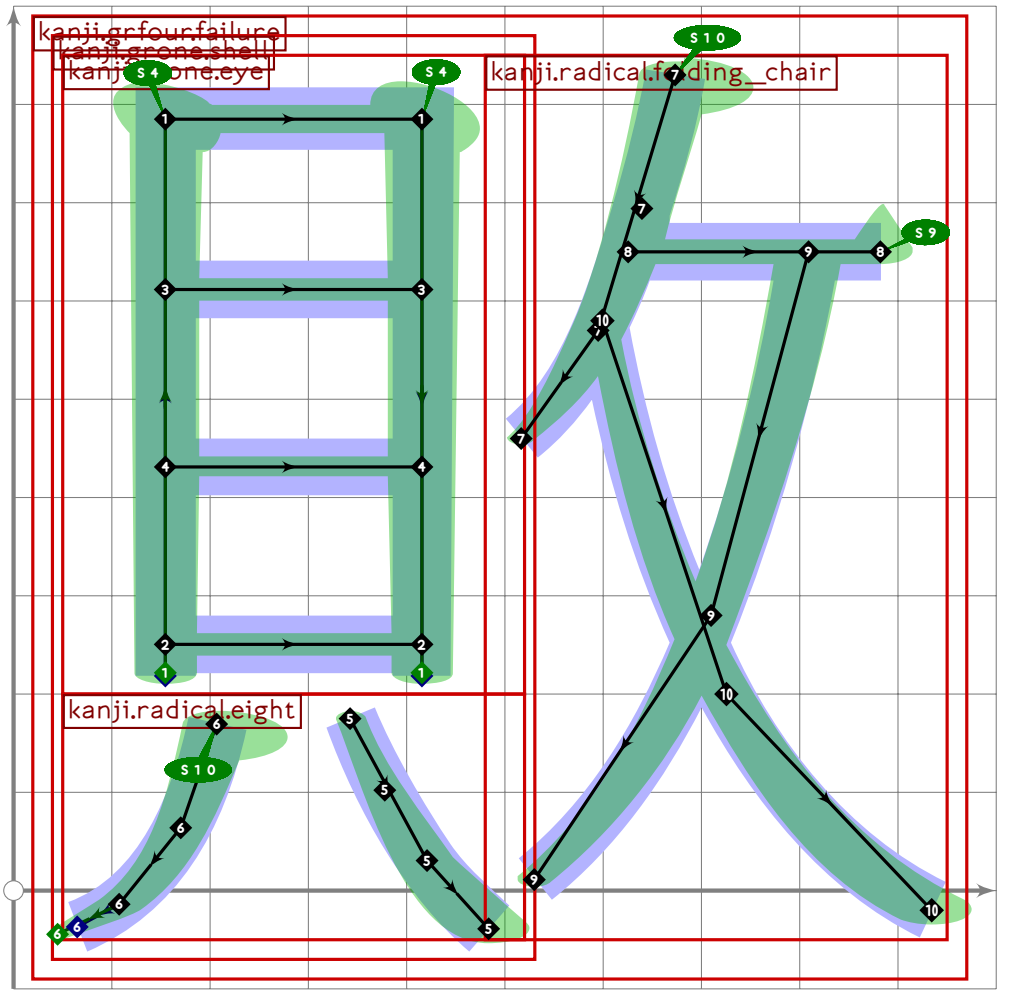



```
104
105 vardef  kanji.grthree.travel =
106   push_pbox_toexpand("kanji.grthree.travel");
107   build_kanji.level(build_kanji.flag_enclose(0.8,0.8)
108     (kanji.radical.travel_inside));
109   expand_pbox;
110 enddef;
```

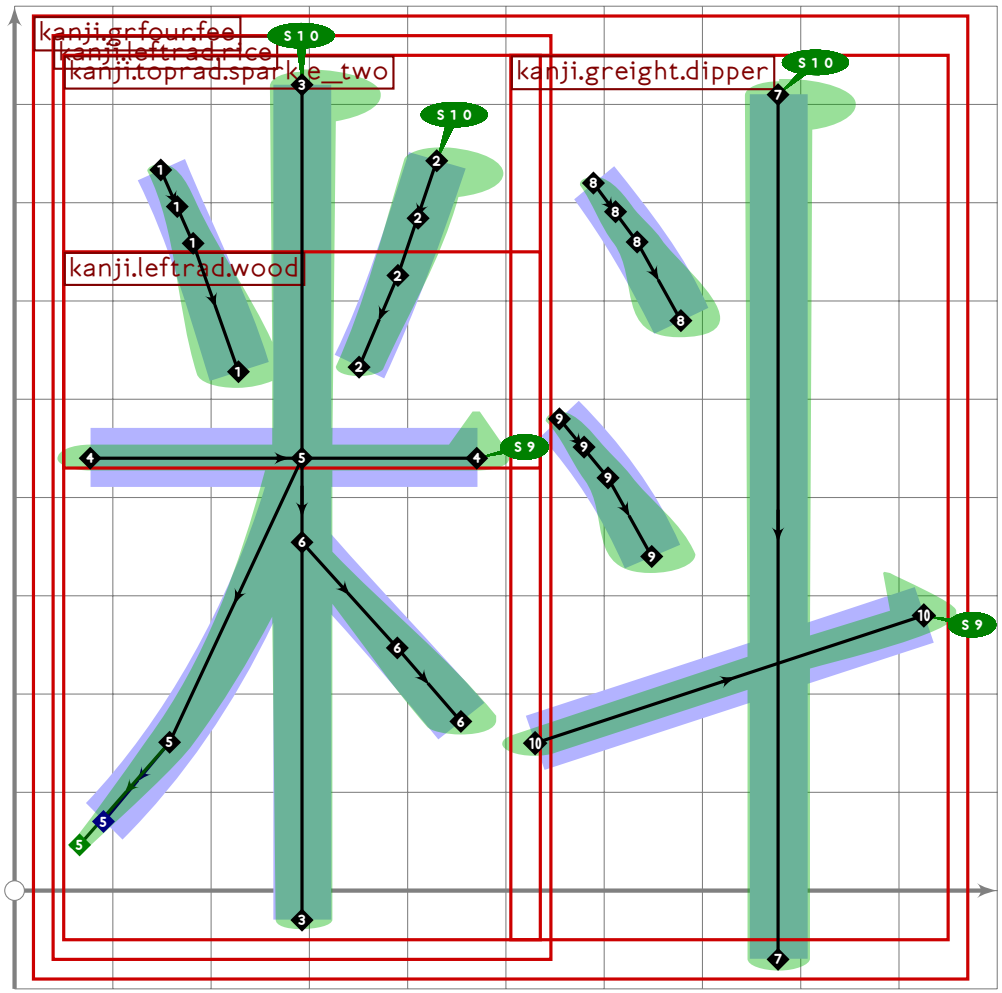



```
111
112 vardef kanji.grthree.tribe =
113   push_pbox_toexpand("kanji.grthree.tribe");
114   build_kanji.level(build_kanji.flag_enclose(0.8,0.8)(
115     kanji.grtwo.arrow;
116     replace_strokep(-4)(oldp shifted (-500,0)
117       xscaled 0.86 shifted (500,0));
118     replace_strokep(-3)(oldp shifted (-500,0)
119       xscaled 0.86 shifted (500,0))));
120   expand_pbox;
121 enddef;
122
123 ---------------------------------------------------------------------
```

U+6557
tsuku.uni6557

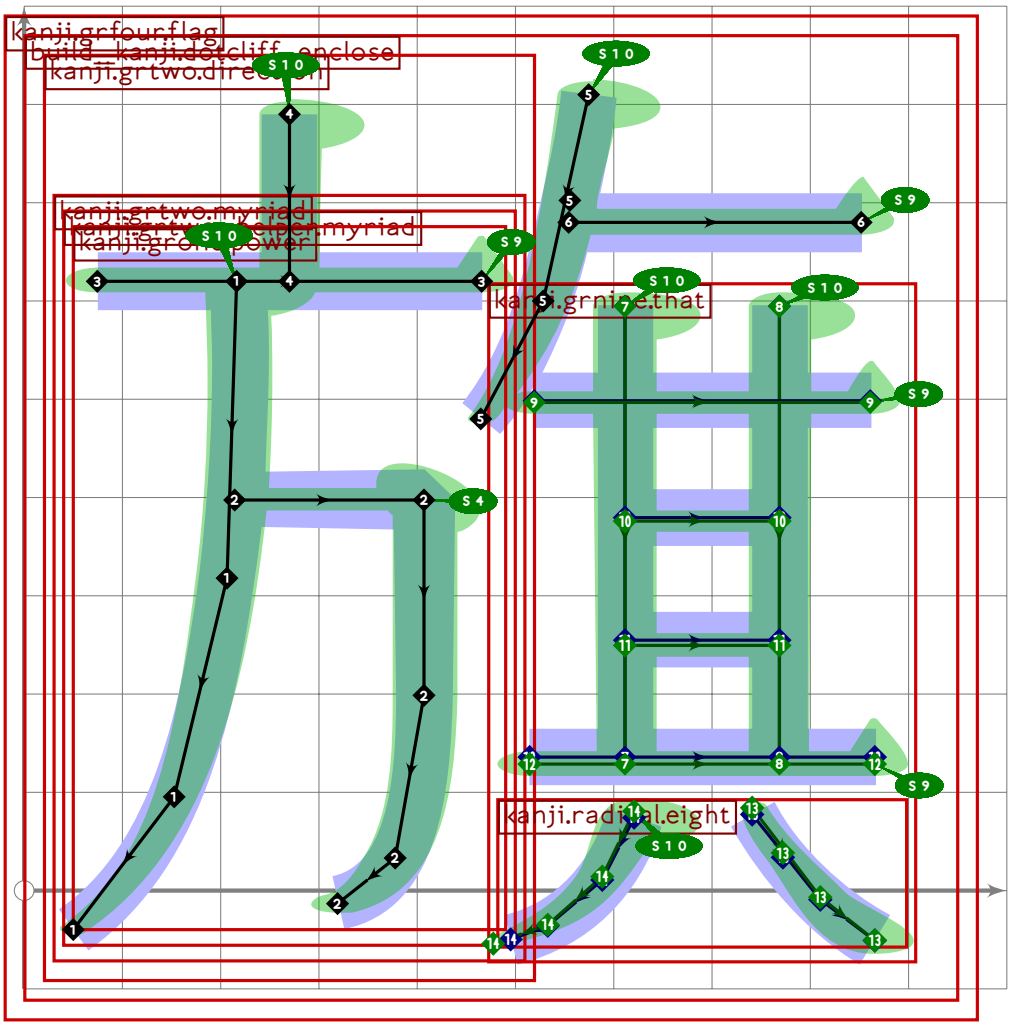



```
124
125 vardef kanji.grfour.failure =
126   push_pbox_toexpand("kanji.grfour.failure");
127   build_kanji.level(build_kanji.lr(500,40)
128     (kanji.grone.shell)
129     (kanji.radical.folding_chair;
130       replace_strokep(-1)(subpath (0,length(oldp)-0.17) of oldp)));
131   expand_pbox;
132 enddef;
```

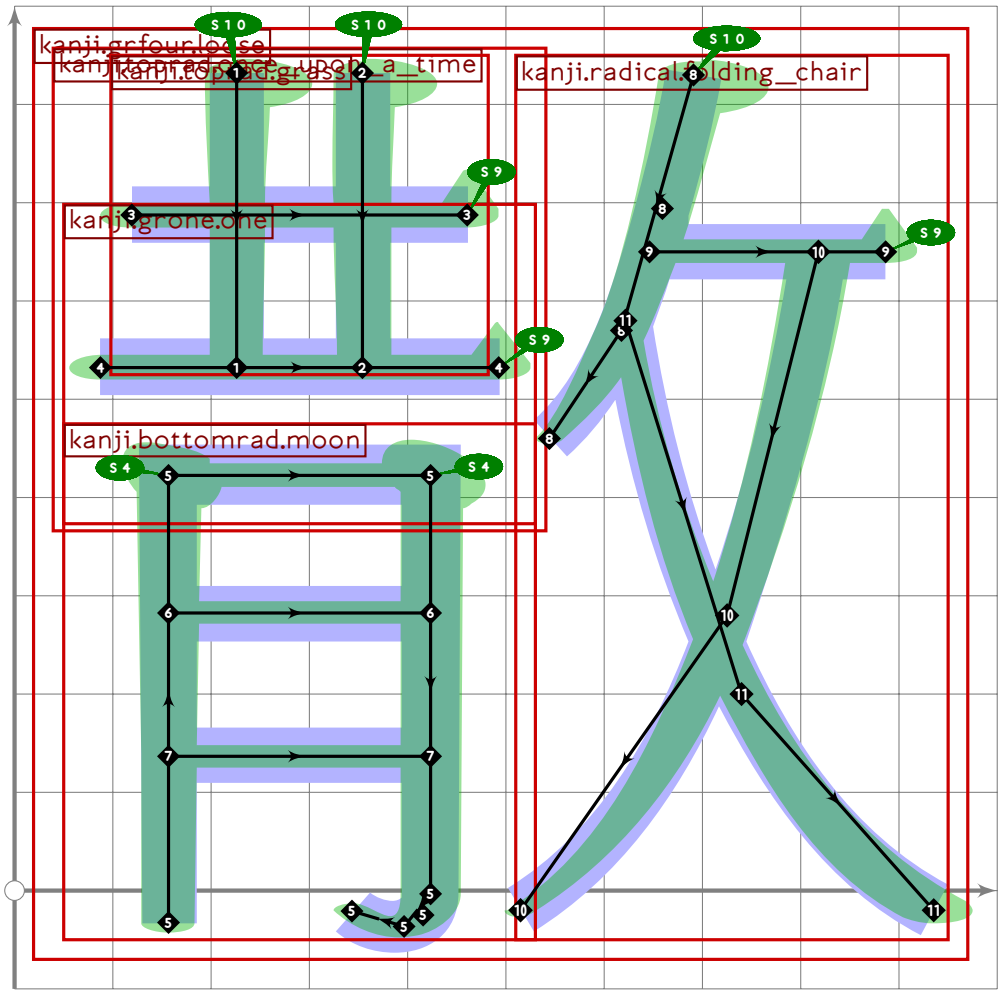



```
133
134 vardef kanji.grfour.fee =
135   push_pbox_toexpand("kanji.grfour.fee");
136   build_kanji.level(build_kanji.lr(520,30)
137     (kanji.leftrad.rice)
138     (kanji.greight.dipper));
139   expand_pbox;
140 enddef;
```

U+65D7
tsuku.uni65D7

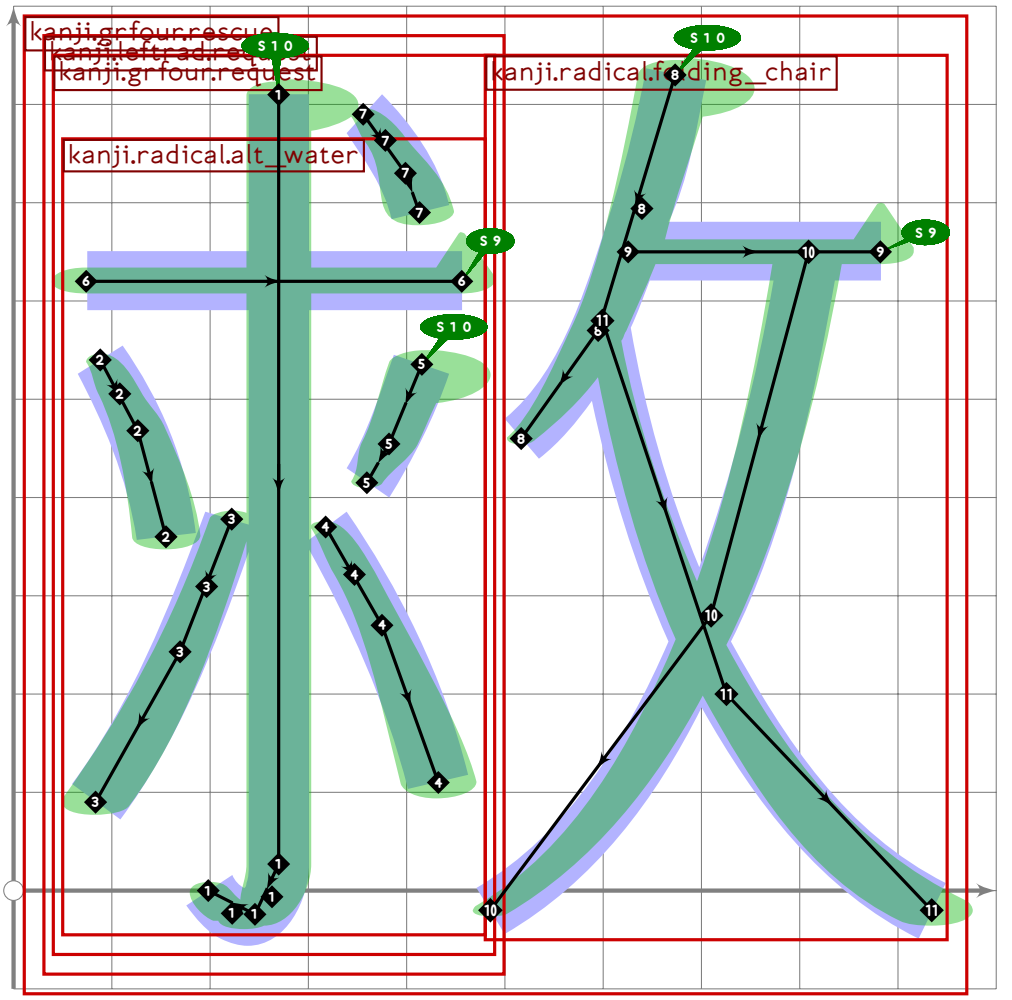



```
141
142 vardef  kanji.grfour.flag =
143   push_pbox_toexpand("kanji.grfour.flag");
144   build_kanji.level(build_kanji.flag_enclose(0.8,0.75)
145     (kanji.grnine.that));
146   expand_pbox;
147 enddef;
```

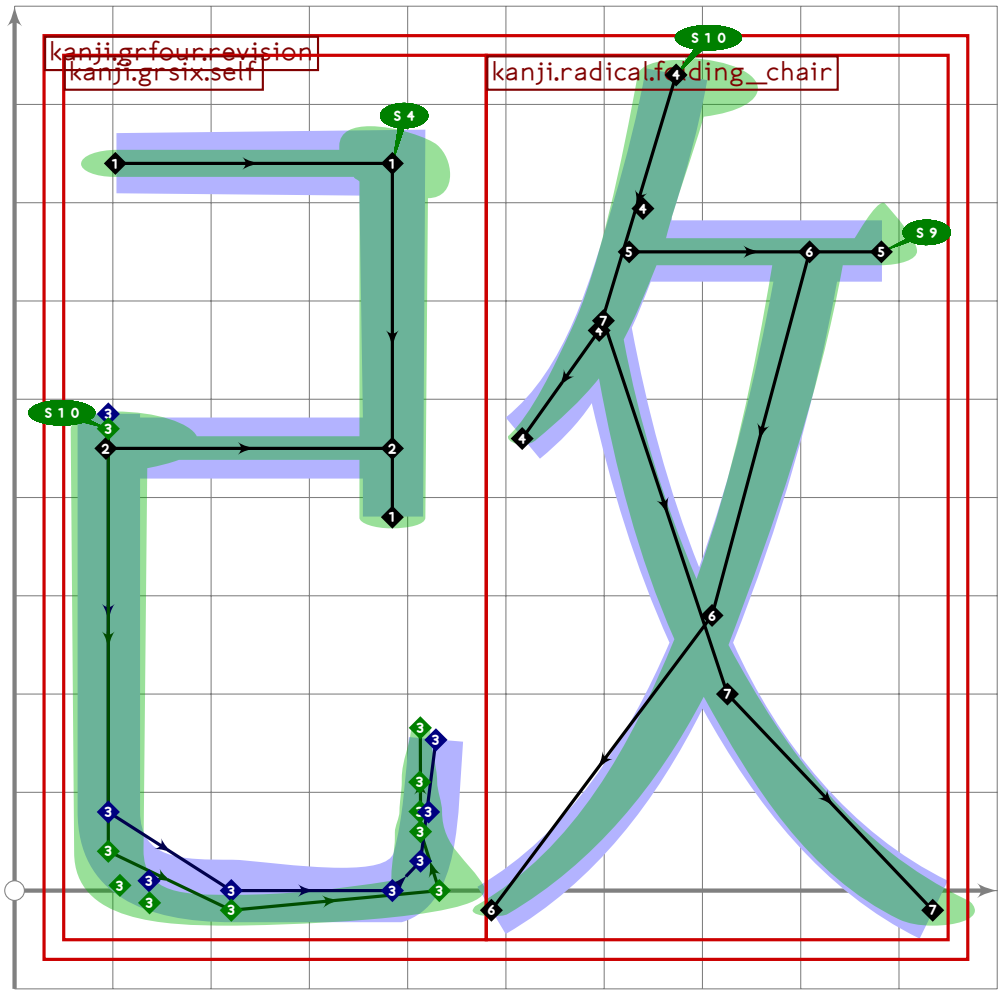



```
148
149 vardef kanji.grfour.loose =
150   push_pbox_toexpand("kanji.grfour.loose");
151   build_kanji.level(build_kanji.lr(520,20)
152     (build_kanji.tb(500,-50)
153         (kanji.toprad.once_upon_a_time)
154         (kanji.bottomrad.moon))
155     (kanji.radical.folding_chair));
156   expand_pbox;
157 enddef;
```

U+6551
tsuku.uni6551



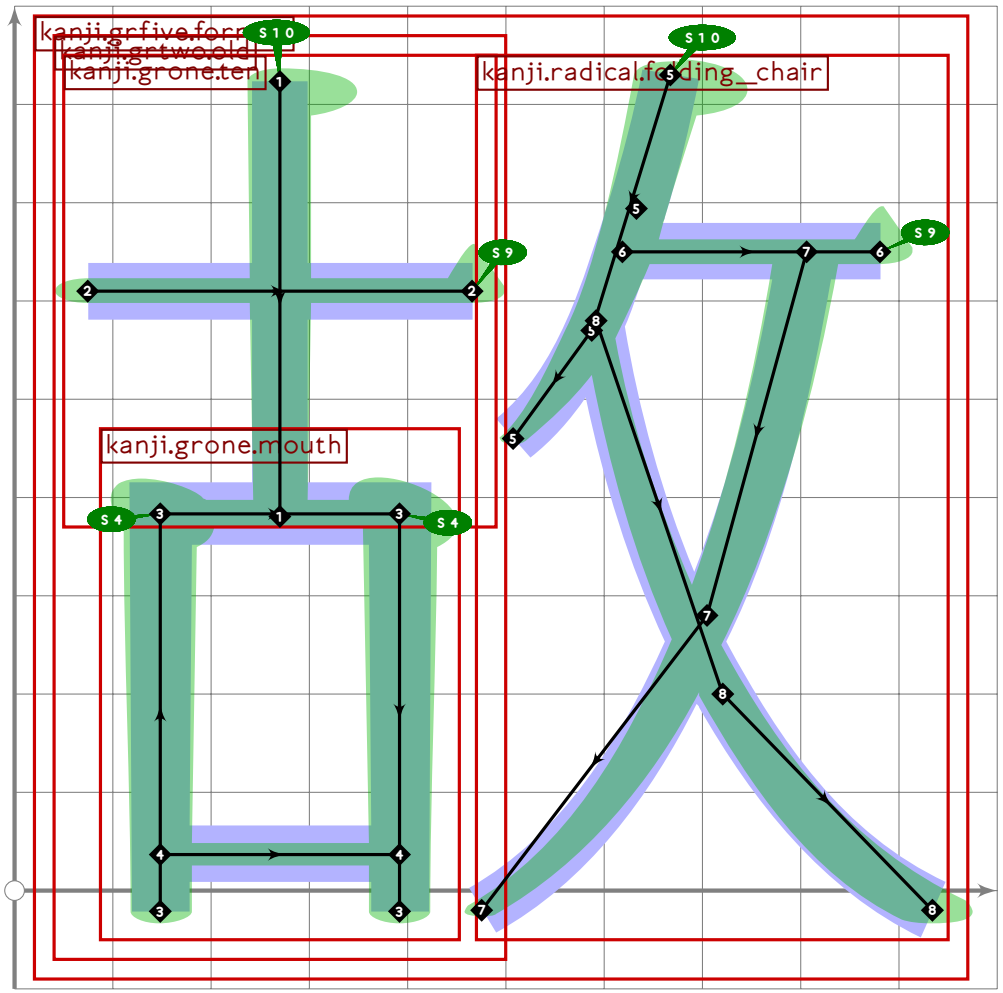

```
158
159 vardef  kanji.grfour.rescue =
160   push_pbox_toexpand("kanji.grfour.rescue");
161   build_kanji.level(build_kanji.lr(480,0)
162     (kanji.leftrad.request)
163     (kanji.radical.folding_chair));
164   expand_pbox;
165 enddef;
```



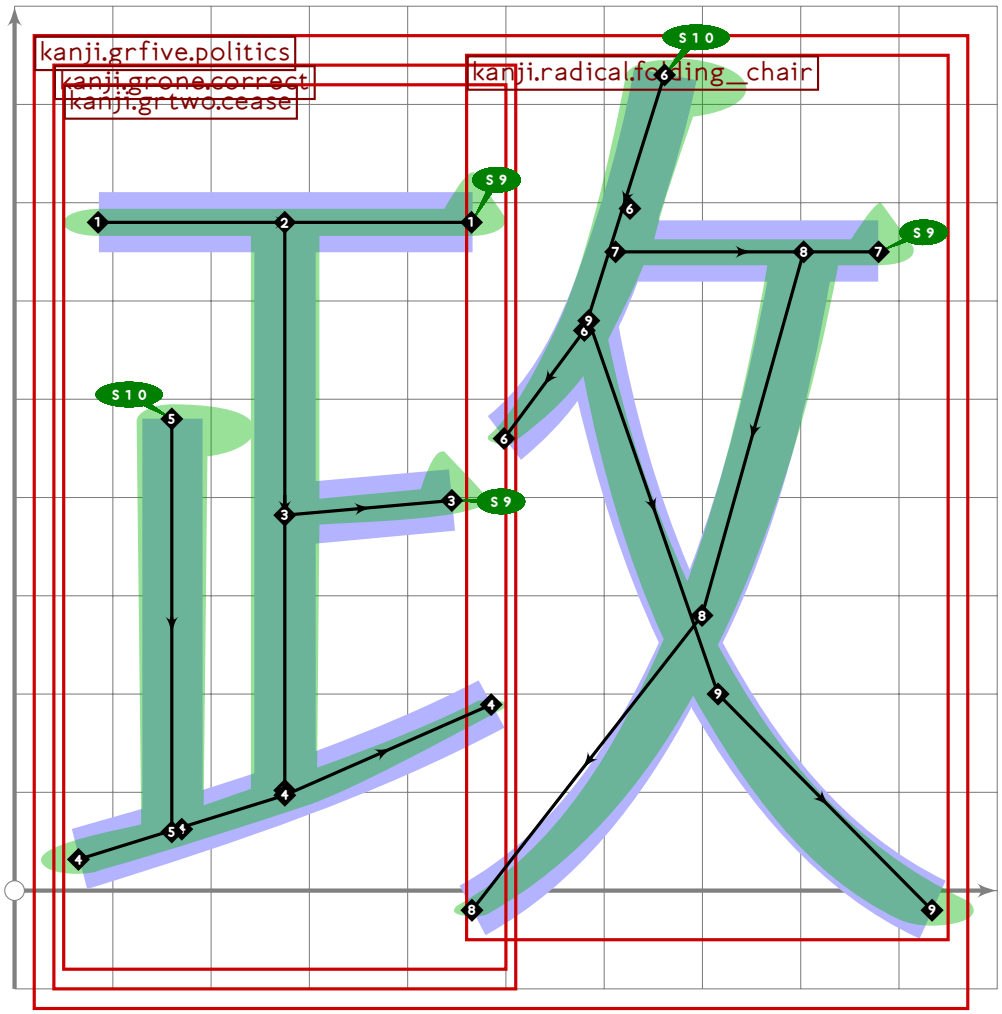

```
vardef kanji.grfour.revision =
  push_pbox_toexpand("kanji.grfour.revision");
  build_kanji.level(build_kanji.lr(480,0)
    (kanji.grsix.self)
    (kanji.radical.folding_chair));
  expand_pbox;
enddef;
```

U+6545
tsuku.uni6545

65



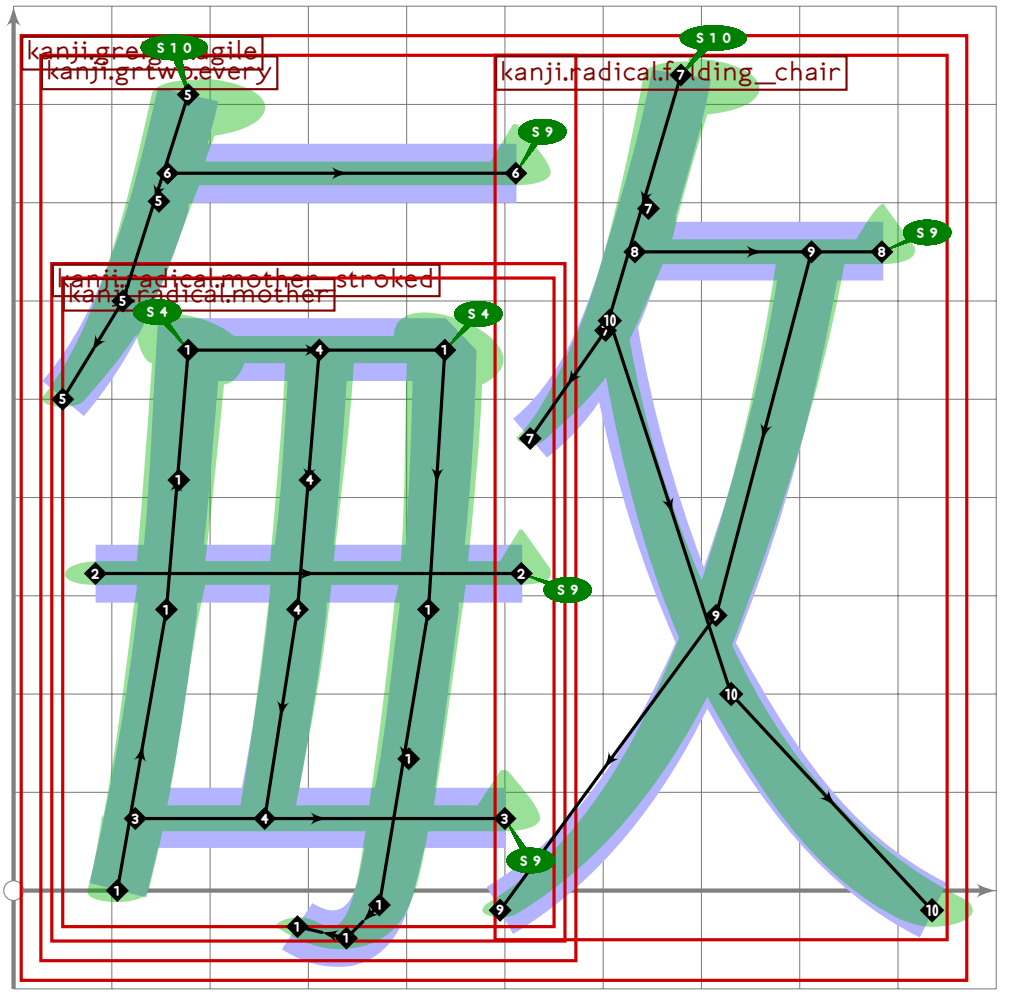

```
176
177 vardef kanji.grfive.former =
178   push_pbox_toexpand("kanji.grfive.former");
179   build_kanji.level(build_kanji.lr(480,20)
180     (kanji.grtwo.old)
181     (kanji.radical.folding_chair));
182   expand_pbox;
183 enddef;
```



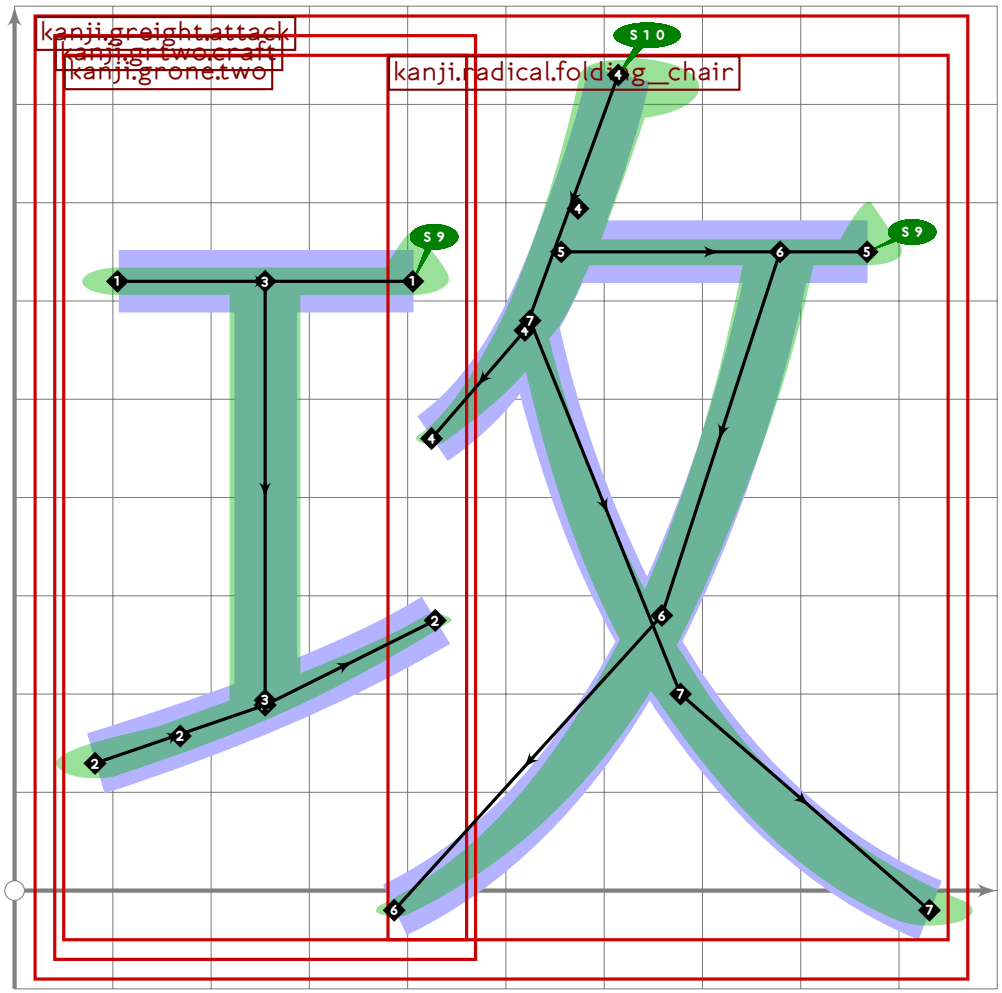

```
vardef kanji.grfive.politics =
  push_pbox_toexpand("kanji.grfive.politics");
  build_kanji.level(build_kanji.lr(480,40)
    (build_kanji.sscale(shifted (0,-30))(build_kanji.lift_skirt(500,200)
        (kanji.grone.correct)))
    (kanji.radical.folding_chair));
  expand_pbox;
enddef;
```

U+654F
tsuku.uni654F

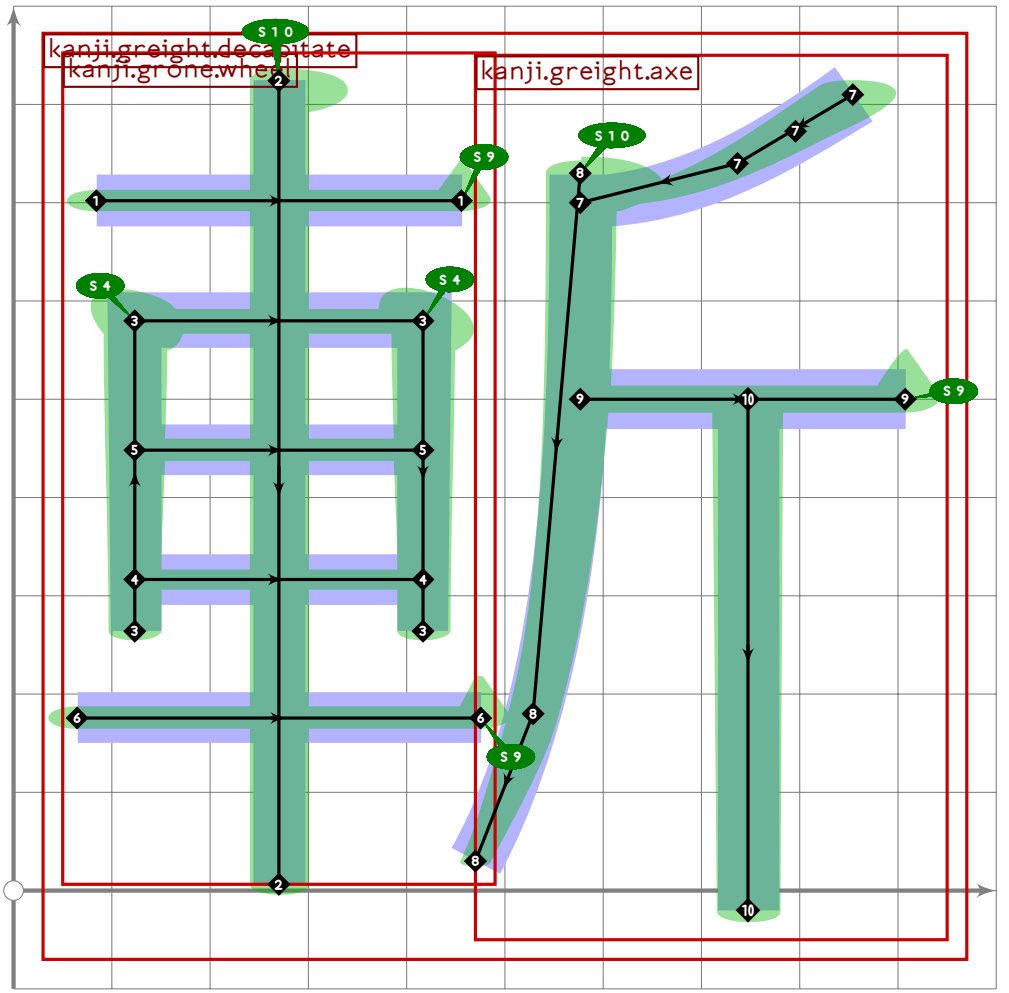
65



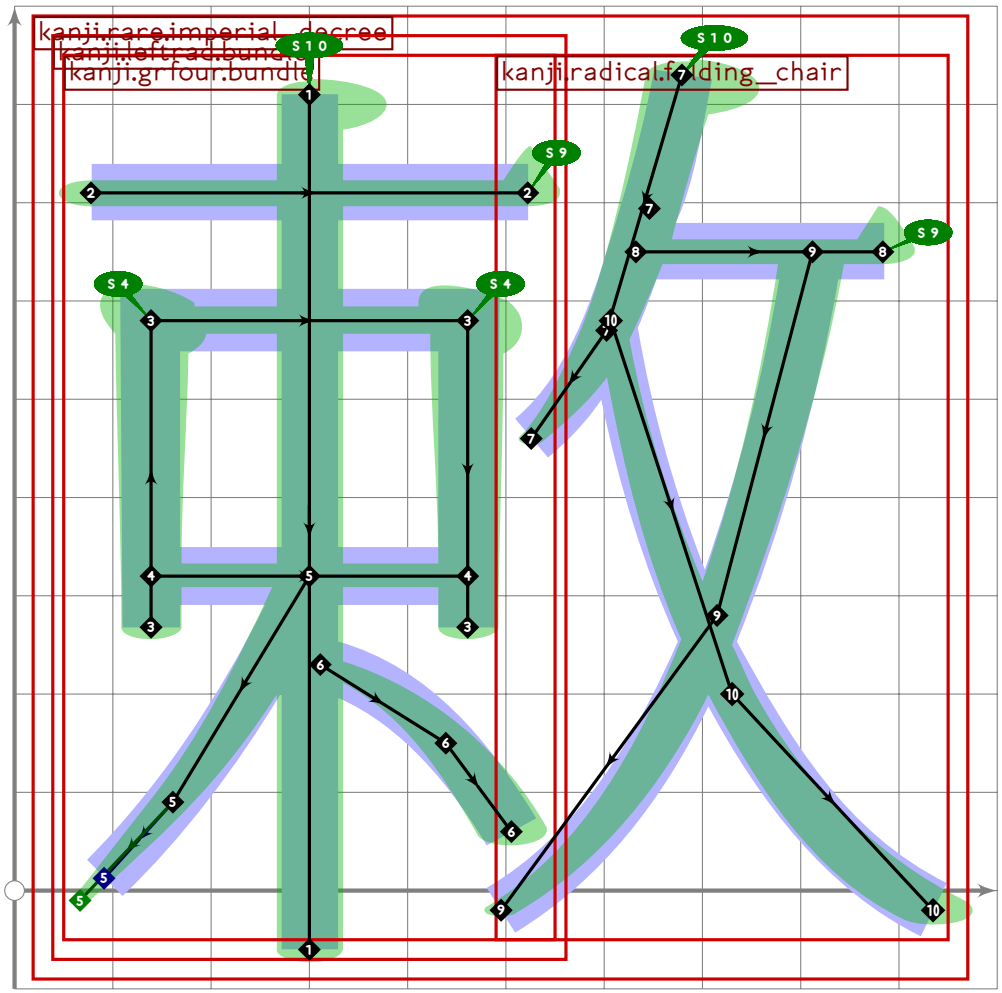

```
195
196 vardef kanji.greight.agile =
197   push_pbox_toexpand("kanji.greight.agile");
198   build_kanji.level(build_kanji.lr(520,60)
199     (kanji.grtwo.every)
200     (kanji.radical.folding_chair));
201   expand_pbox;
202 enddef;
```




```
203
204 vardef  kanji.greight.attack =
205   push_pbox_toexpand("kanji.greight.attack");
206   build_kanji.level(build_kanji.lr(420,80)
207     (build_kanji.lift_skirt(400,250)(kanji.grtwo.craft))
208     (kanji.radical.folding_chair));
209   expand_pbox;
210 enddef;
```



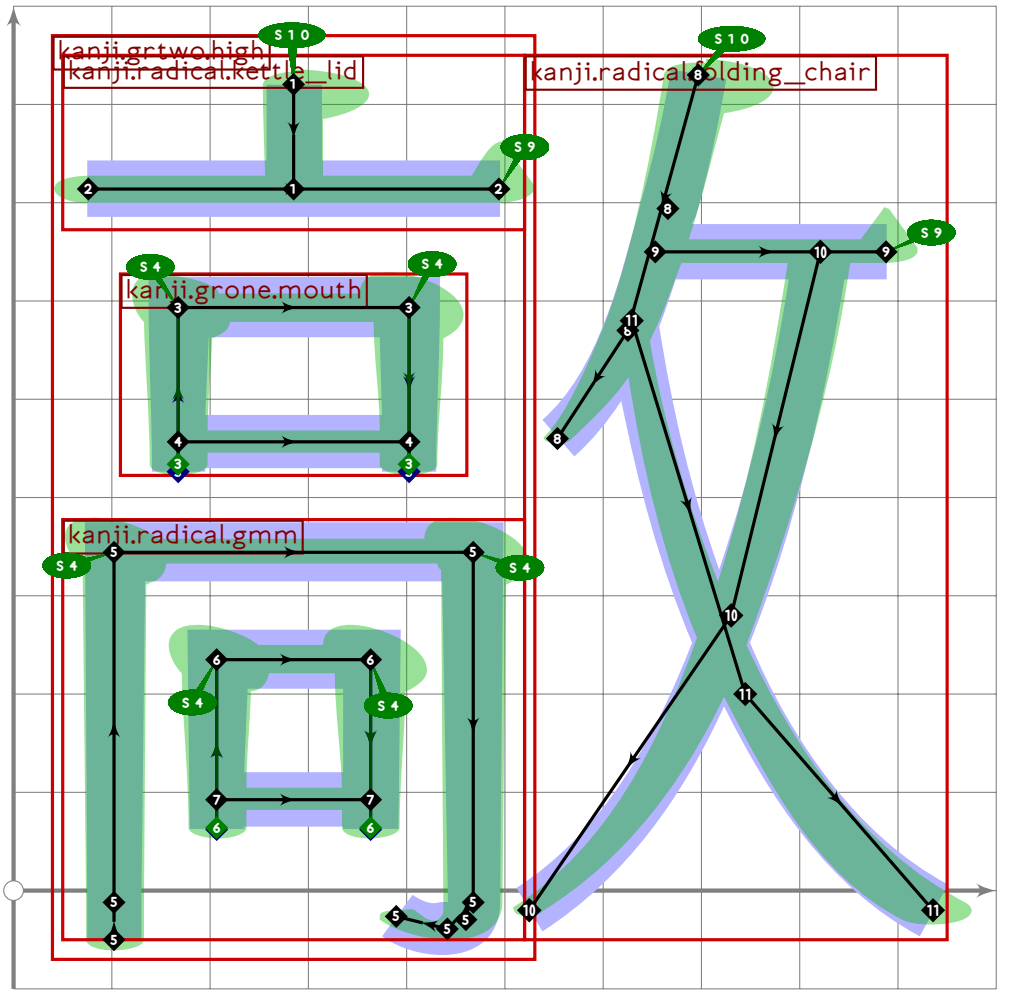

```
211
212 vardef kanji.greight.decapitate =
213   push_pbox_toexpand("kanji.greight.decapitate");
214   build_kanji.lr(480,20)
215     (build_kanji.sscale(yscaled 0.94 shifted (0,30))
216         (kanji.grone.wheel))
217     (kanji.greight.axe);
218   expand_pbox;
219 enddef;
220
221
```




```
vardef kanji.rare.imperial_decree =
  push_pbox_toexpand("kanji.rare.imperial_decree");
  build_kanji.level(build_kanji.lr(520,60)
    (kanji.leftrad.bundle)
    (kanji.radical.folding_chair));
  expand_pbox;
enddef;

---

vardef kanji.leftrad.bundle =
  push_pbox_toexpand("kanji.leftrad.bundle");
  kanji.grfour.bundle;
  replace_strokep(0)((520,230)..(750,150)..(870,60));
  expand_pbox;
enddef;

---

% shi/sasa "support"
```

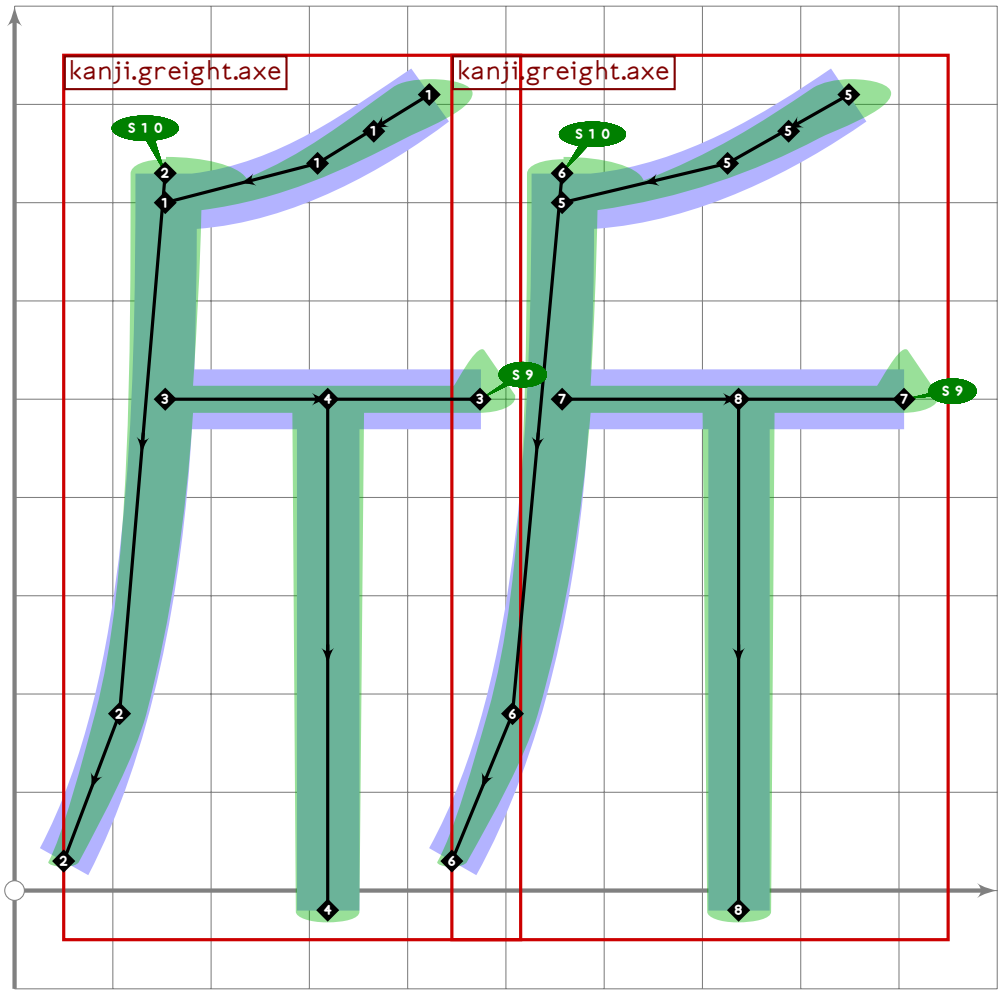
```
begintsuglyph("uni652F",47);                                    [see page 647]
  kanji.grfive.support;
  tsu_render;
endtsuglyph;

% "folding chair" radical
begintsuglyph("uni6535",53);                                    [see page 689]
  kanji.radical.folding_chair;
  tsu_render;
endtsuglyph;

% kai/arata "revision"
begintsuglyph("uni6539",57);                                    [see page 2269]
  kanji.grfour.revision;
  tsu_render;
endtsuglyph;

% kou/se attack
begintsuglyph("uni653B",59);                                    [see page 2273]
  kanji.greight.attack;
  tsu_render;
endtsuglyph;

% hou/hana "release"
begintsuglyph("uni653E",62);                                    [see page 2261]
  kanji.grthree.release;
  tsu_render;
endtsuglyph;

% sei/matsurigoto politics
begintsuglyph("uni653F",63);                                    [see page 2271]
  kanji.grfive.politics;
  tsu_render;
endtsuglyph;

% ko/yue "former"
begintsuglyph("uni6545",69);                                    [see page 2270]
  kanji.grfive.former;
  tsu_render;
endtsuglyph;

% bin/satoi "agile"
begintsuglyph("uni654F",79);                                    [see page 2272]
  kanji.greight.agile;
  tsu_render;
endtsuglyph;

% kyuu/suku "rescue"
```

```
begintsuglyph("uni6551",81);                                    [see page 2268]
  kanji.grfour.rescue;
  tsu_render;
endtsuglyph;

% choku/imashi "imperial decree"
begintsuglyph("uni6555",85);                                    [see page 2275]
  kanji.rare.imperial_decree;
  tsu_render;
endtsuglyph;

% hai/yabu "failure"
begintsuglyph("uni6557",87);                                    [see page 2264]
  kanji.grfour.failure;
  tsu_render;
endtsuglyph;

% kyou/oshi "teaching"
begintsuglyph("uni6559",89);                                    [see page 2259]
  kanji.grtwo.teaching;
  tsu_render;
endtsuglyph;

% san/chi "loose"
begintsuglyph("uni6563",99);                                    [see page 2267]
  kanji.grfour.loose;
  tsu_render;
endtsuglyph;

% kei/uyama "respect"
begintsuglyph("uni656C",108);                                    [see page 659]
  kanji.grsix.respect;
  tsu_render;
endtsuglyph;

% suu/kazu "number"
begintsuglyph("uni6570",112);                                   [see page 2258]
  kanji.grtwo.number;
  tsu_render;
endtsuglyph;

```




```
% extra: kou/tata "beat or hit"
begintsuglyph("uni6572",114);
  build_kanji.level(build_kanji.lr(520,0)
    (kanji.grtwo.high)
    (kanji.radical.folding_chair));
  tsu_render;
endtsuglyph;

% sei/totono "organize"
begintsuglyph("uni6574",116);                                [see page 2260]
  kanji.grthree.organize;
  tsu_render;
endtsuglyph;

% bun/fumi "sentence"
begintsuglyph("uni6587",135);                                [see page 463]
  kanji.grone.sentence;
  tsu_render;
endtsuglyph;

% to/masu "dipper"
```

```
begintsuglyph("uni6597",151);                                    [see page 734]
  kanji.greight.dipper;
  tsu_render;
endtsuglyph;

% ryou "fee" (also "cooking" in compound words)
begintsuglyph("uni6599",153);                                    [see page 2265]
  kanji.grfour.fee;
  tsu_render;
endtsuglyph;

% kin/ono "axe"
begintsuglyph("uni65A4",164);                                    [see page 728]
  kanji.greight.axe;
  tsu_render;
endtsuglyph;
```



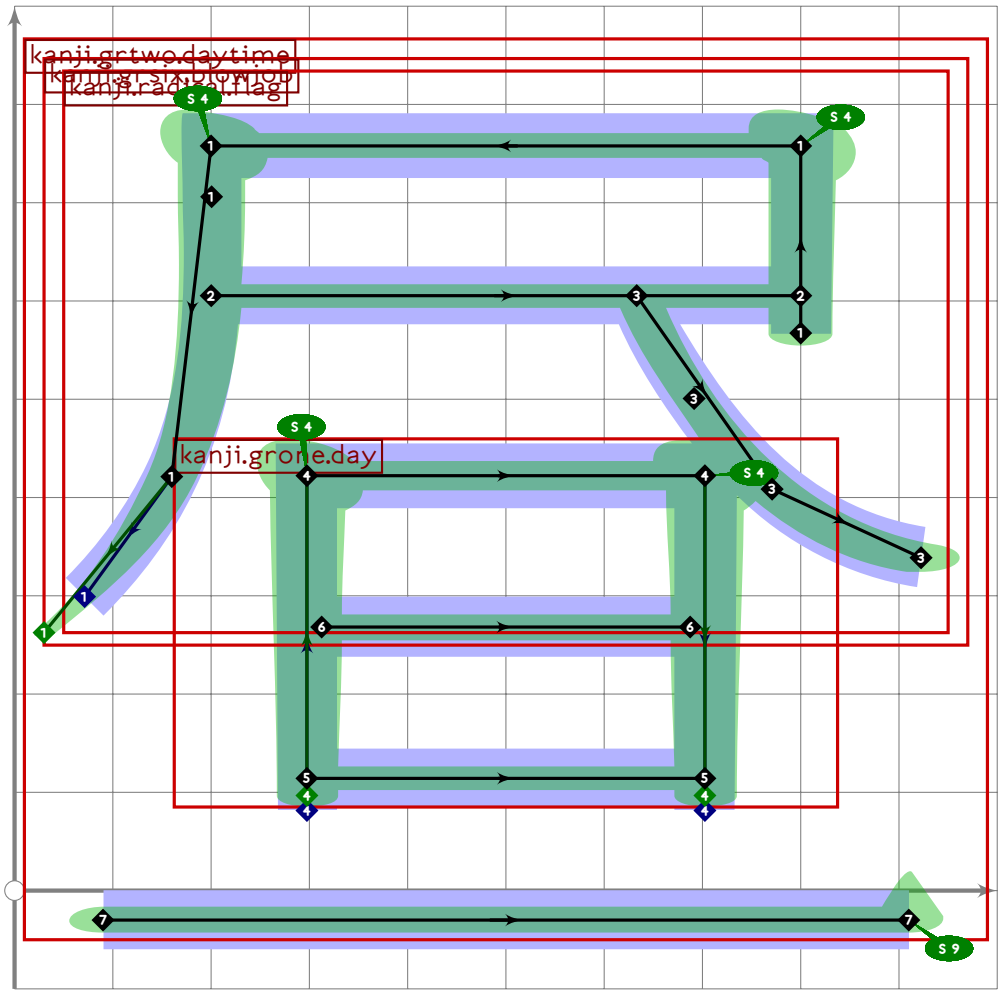

```
% extra
begintsuglyph("uni65A6",166);
  build_kanji.level(build_kanji.lr(480,70)
    (kanji.greight.axe)
```

```
    (kanji.greight.axe));
  tsu_render;
endtsuglyph;

% zan/ki "decapitate
begintsuglyph("uni65AC",172);                                    [see page 2274]
  kanji.greight.decapitate;
  tsu_render;
endtsuglyph;

% shin/atara "new"
begintsuglyph("uni65B0",176);                                    [see page 2257]
  kanji.grtwo.new;
  tsu_render;
endtsuglyph;

% hou/kata "direction" or "how to do it"
begintsuglyph("uni65B9",185);                                     [see page 493]
  kanji.grtwo.direction;
  tsu_render;
endtsuglyph;

% needed for "play"
begintsuglyph("uni65BF",191);                                     [see page 840]
  kanji.rare.swim;
  tsu_render;
endtsuglyph;

% ryo/tabi "travel"
begintsuglyph("uni65C5",197);                                    [see page 2262]
  kanji.grthree.travel;
  tsu_render;
endtsuglyph;

% zoku "tribe"
begintsuglyph("uni65CF",207);                                    [see page 2263]
  kanji.grthree.tribe;
  tsu_render;
endtsuglyph;

% ki/hata "flag"
begintsuglyph("uni65D7",215);                                    [see page 2266]
  kanji.grfour.flag;
  tsu_render;
endtsuglyph;

% hi/nichi "day"
begintsuglyph("uni65E5",229);                                     [see page 423]
```

```
  kanji.grone.day;
  tsu_render;
endtsuglyph;

% tan/aki "daybreak"
begintsuglyph("uni65E6",230);                                    [see page 731]
  kanji.greight.daybreak;
  tsu_render;
endtsuglyph;

% kyuu/furu "old times"
begintsuglyph("uni65E7",231);                                    [see page 641]
  kanji.grfive.old_times;
  tsu_render;
endtsuglyph;

% shi/mune/uma "vaguely good" or "uma" in "umami"
begintsuglyph("uni65E8",232);                                    [see page 741]
  kanji.greight.glutamate;
  tsu_render;
endtsuglyph;

% hayaku "early"
begintsuglyph("uni65E9",233);                                    [see page 427]
  kanji.grone.early;
  tsu_render;
endtsuglyph;

```

```
endfont;

```

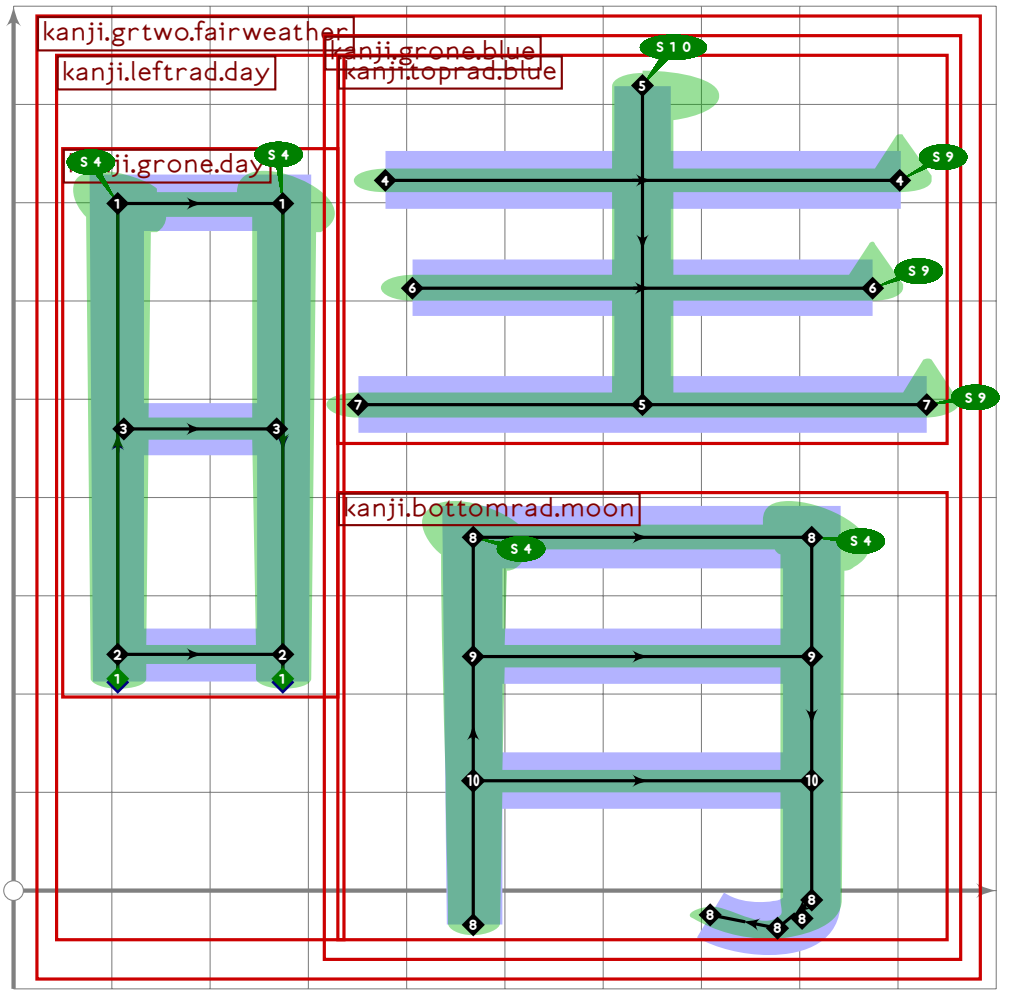
```
%
% Unicode page 66 (Kanji) for Tsukurimashou
% Copyright (C) 2011, 2012, 2013 Matthew Skala
%
[Standard copyright notice]

---

beginfont

% AUTODEPS
input bottomrad.mp;
input buildkanji.mp;
input gradeeight.mp;
input gradefive.mp;
input gradefour.mp;
input gradenine.mp;
input gradeone.mp;
input gradesix.mp;
input gradethree.mp;
input gradetwo.mp;
input leftrad.mp;
input radical.mp;
input rare.mp;
input toprad.mp;

do_late_includes;

---
```



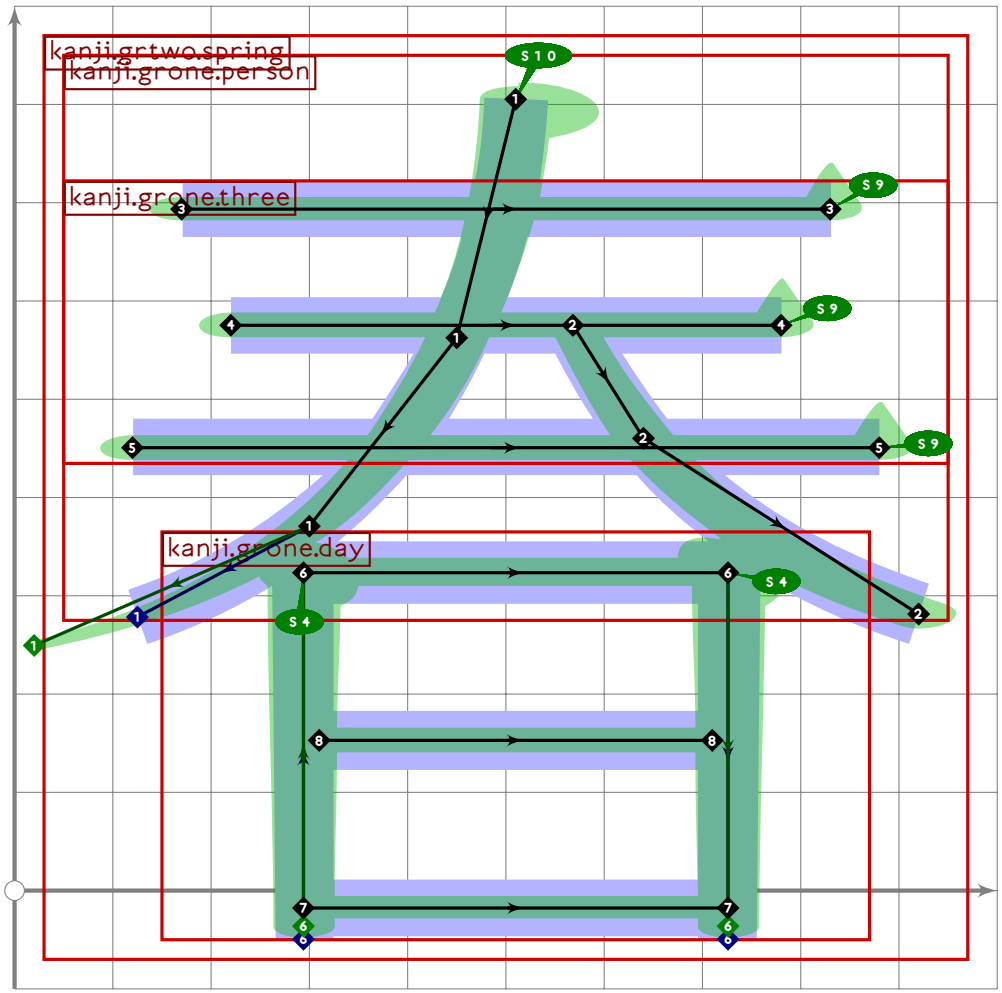

```
54
55 vardef kanji.grtwo.daytime =
56   push_pbox_toexpand("kanji.grtwo.daytime");
57   build_kanji.level(build_kanji.sscale(yscaled 0.9 shifted (0,30))
58     (build_kanji.tb(360,290)
59       (build_kanji.spread_legs(280)(kanji.grsix.blowjob))
60       (build_kanji.sscale(scaled 0.75)(kanji.grone.day)));
61     push_stroke((90,-30)--(910,-30),(1.6,1.6)--(1.6,1.6));
62     set_boserif(0,1,9));
63   expand_pbox;
64 enddef;
```

U+6674
tsuku.uni6674

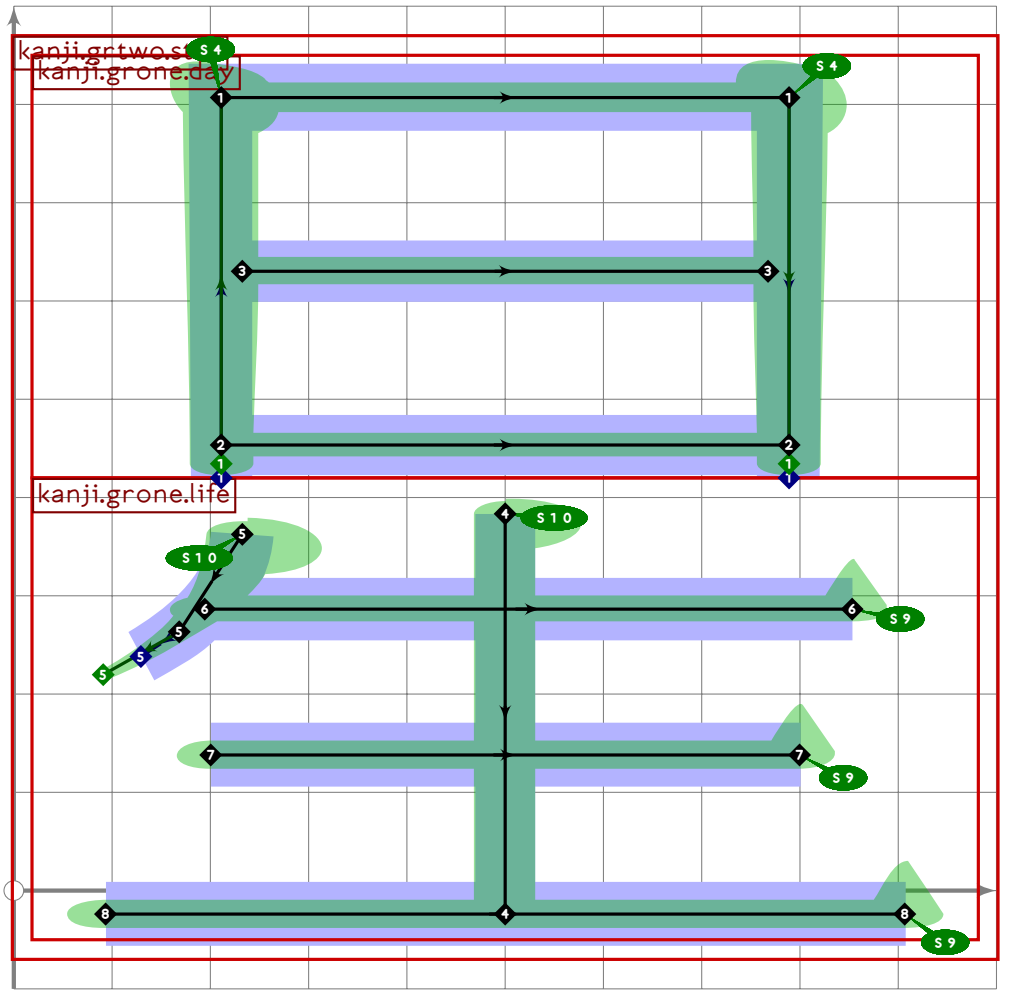
66



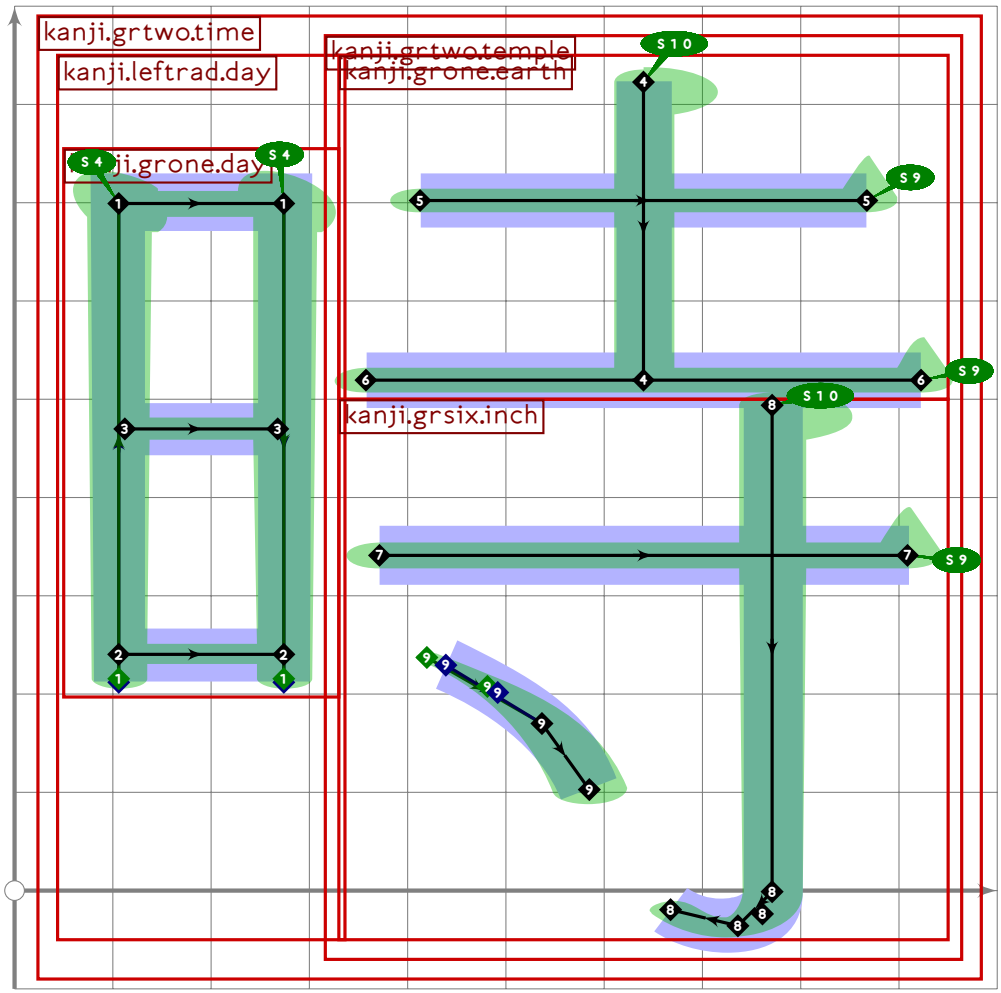

```
65
66 vardef kanji.grtwo.fairweather =
67   push_pbox_toexpand("kanji.grtwo.fairweather");
68   build_kanji.lr(330,0)
69     (kanji.leftrad.day)
70     (kanji.grone.blue);
71   expand_pbox;
72 enddef;
```



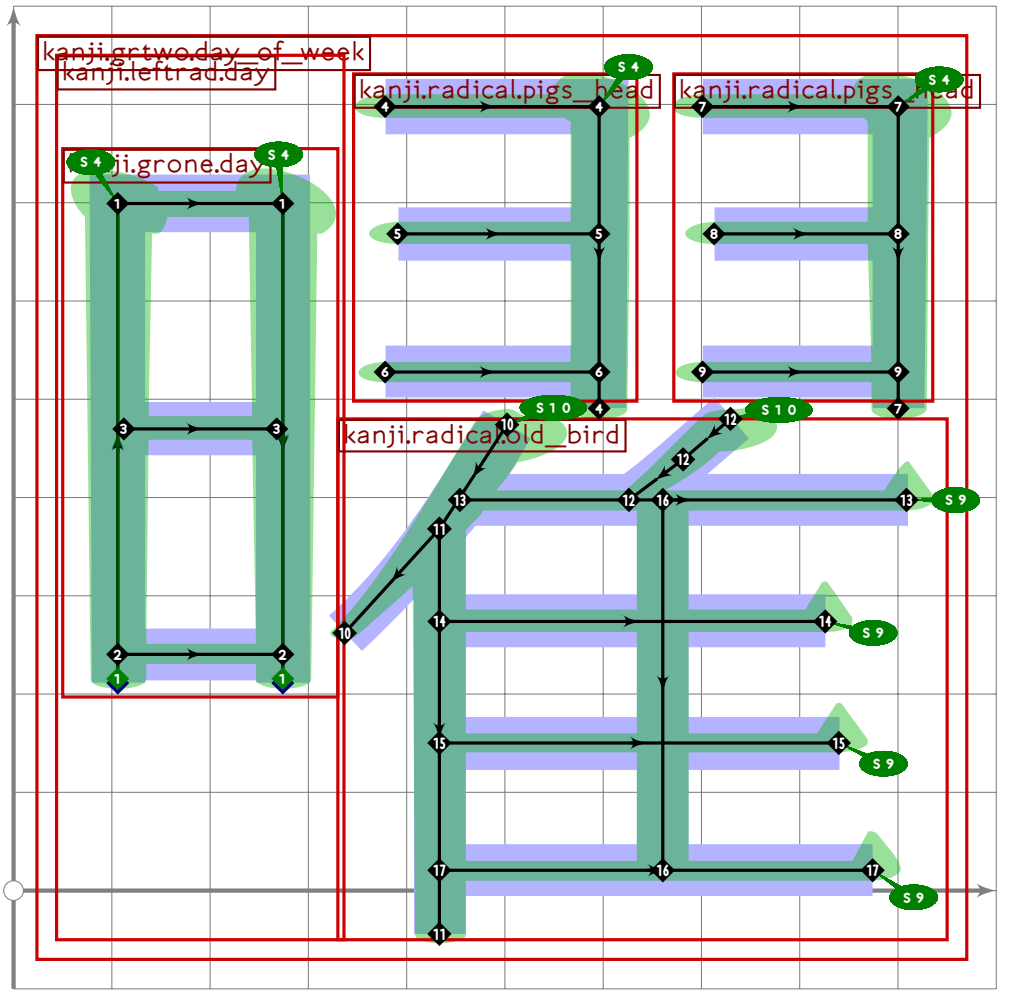

```
73
74 vardef kanji.grtwo.spring =
75   push_pbox_toexpand("kanji.grtwo.spring");
76   build_kanji.tb(320,90)
77     (kanji.grone.person;
78      build_kanji.sscale(xyscaled (1,0.5) shifted (0,30))
79        (kanji.grone.three);
80      replace_strokep(-3)
81        (subpath (xpart (oldp intersectiontimes get_strokep(-1)),infinity)
82         of oldp))
83     (build_kanji.sscale(xscaled 0.8 shifted (10,0))
84       (kanji.grone.day));
85   expand_pbox;
86 enddef;
```



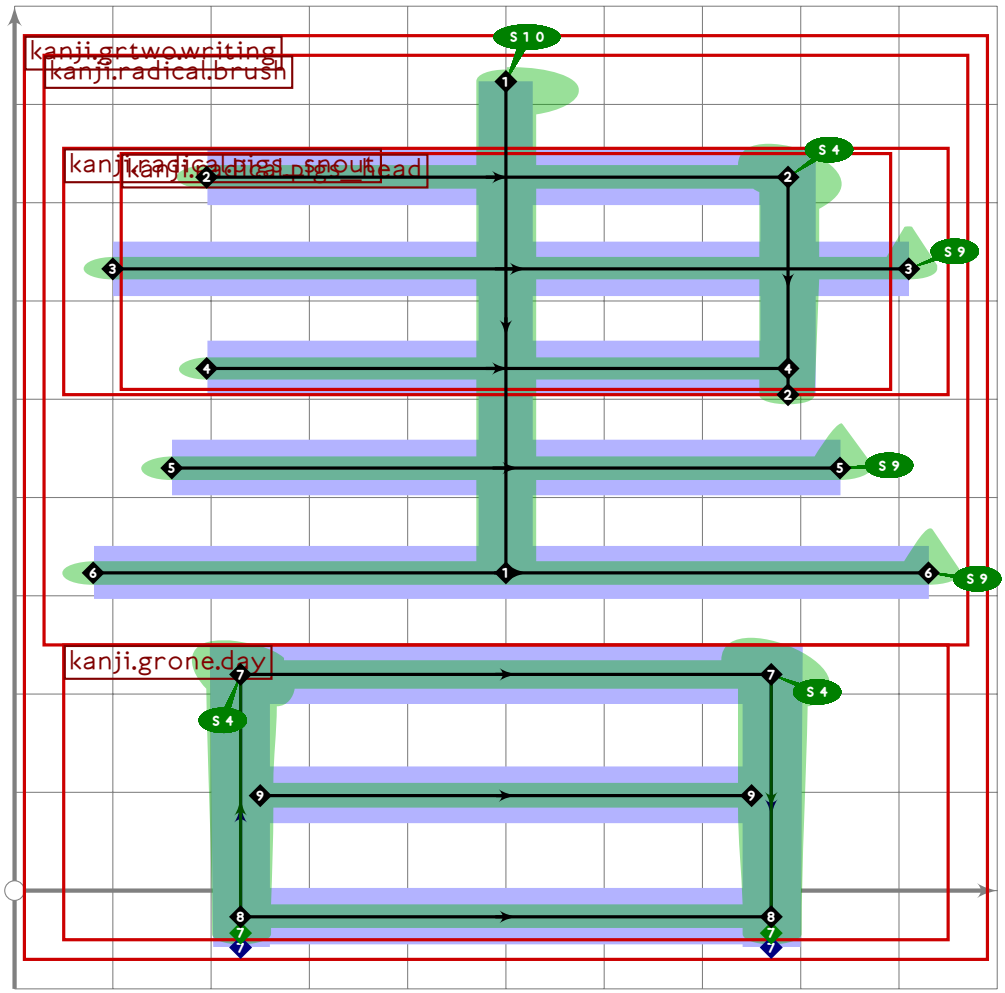

```
87
88 vardef kanji.grtwo.star =
89   push_pbox_toexpand("kanji.grtwo.star");
90   build_kanji.sscale(xscaled 1.07)(build_kanji.tb(420,0)
91     (kanji.grone.day)
92     (kanji.grone.life));
93   expand_pbox;
94 enddef;
```




```
95
96 vardef kanji.grtwo.time =
97   push_pbox_toexpand("kanji.grtwo.time");
98   build_kanji.lr(330,0)
99     (kanji.leftrad.day)
100    (kanji.grtwo.temple);
101  expand_pbox;
102 enddef;
```

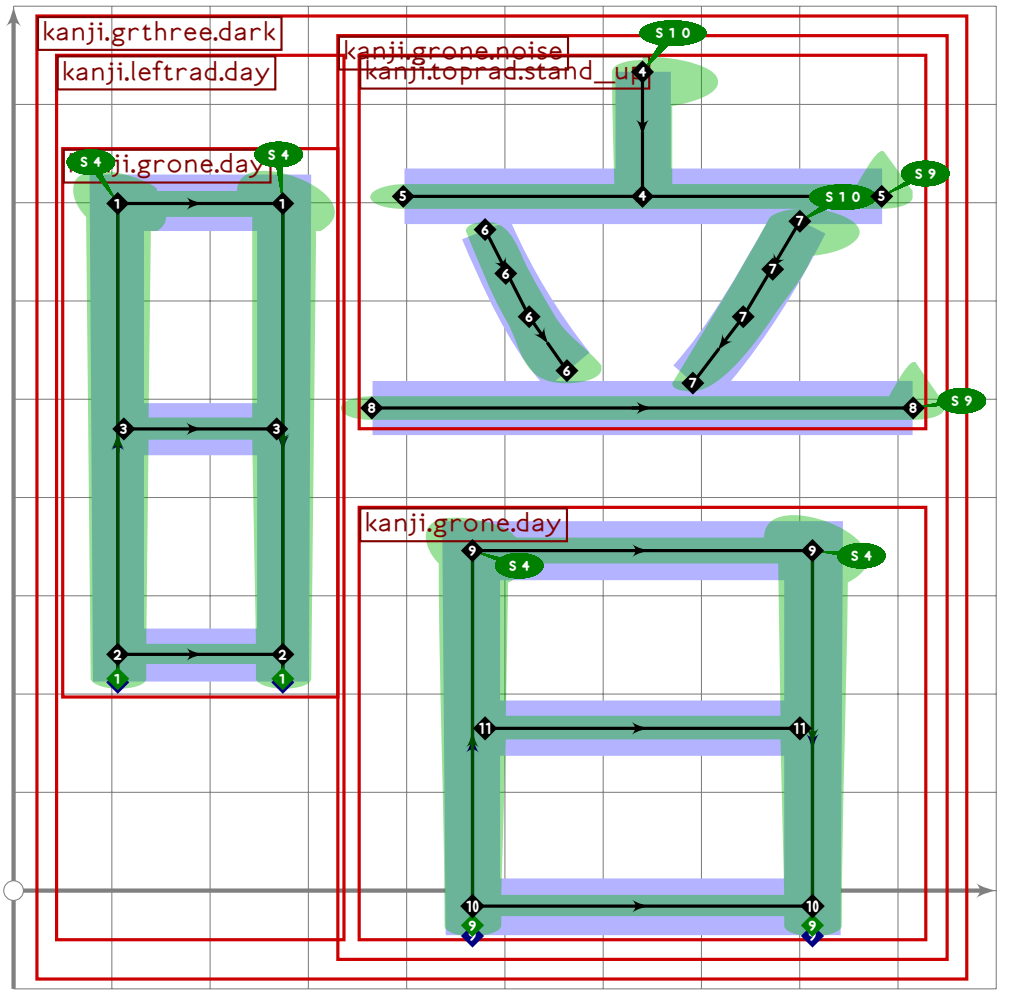



```
103
104 vardef kanji.grtwo.day_of_week =
105   push_pbox_toexpand("kanji.grtwo.day_of_week");
106   build_kanji.level(build_kanji.lr(330,0)
107     (kanji.leftrad.day)
108     (build_kanji.tb(480,0)
109         (build_kanji.lr(520,-10)
110             (build_kanji.sscale(scaled 0.9)
111                 (kanji.radical.pigs_head))
112             (build_kanji.sscale(scaled 0.9)
113                 (kanji.radical.pigs_head)))
114         (kanji.radical.old_bird)));
115   expand_pbox;
116 enddef;
117
```

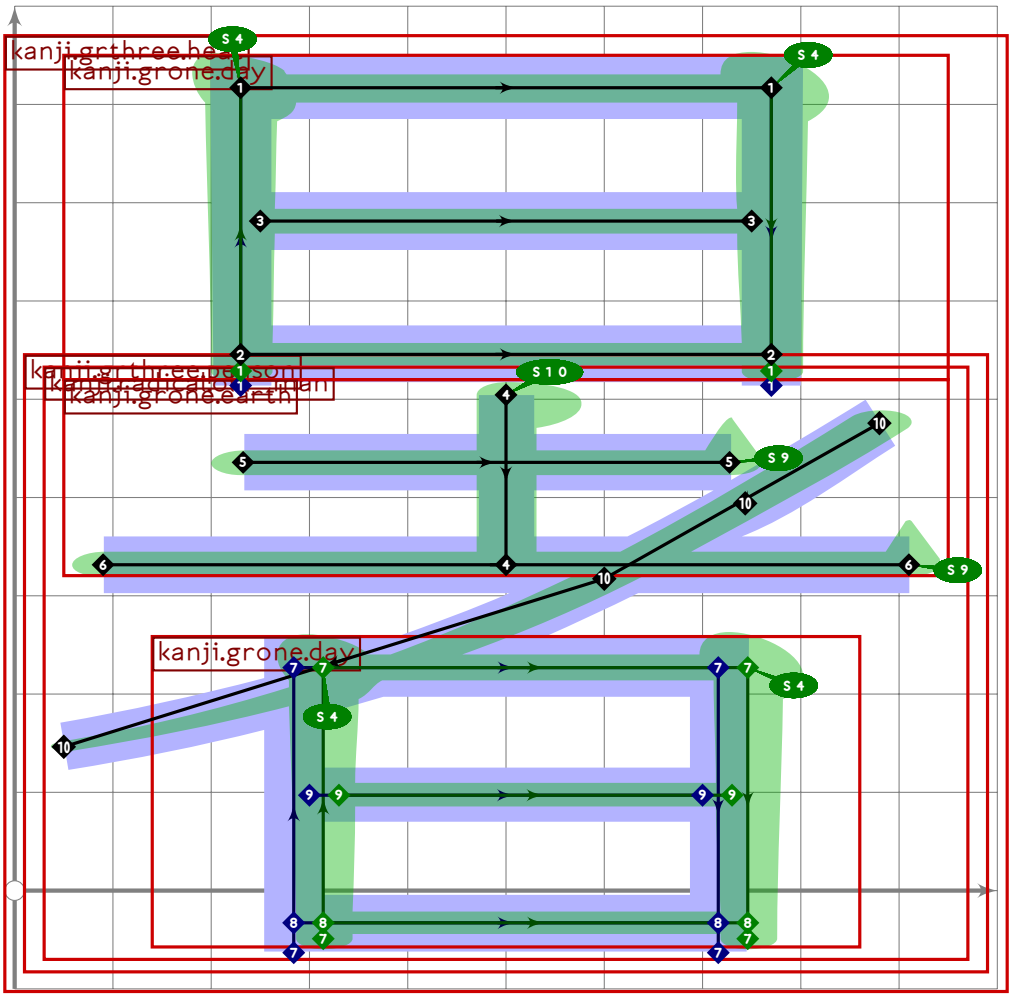



```
% "write" is a reserved word
vardef kanji.grtwo.writing =
  push_pbox_toexpand("kanji.grtwo.writing");
  build_kanji.tb(250,0)
    (kanji.radical.brush;
     replace_strokep(-5)((point 0 of oldp)-
       (oldp intersectionpoint get_strokep(0))))
    (kanji.grone.day);
  expand_pbox;
enddef;

```

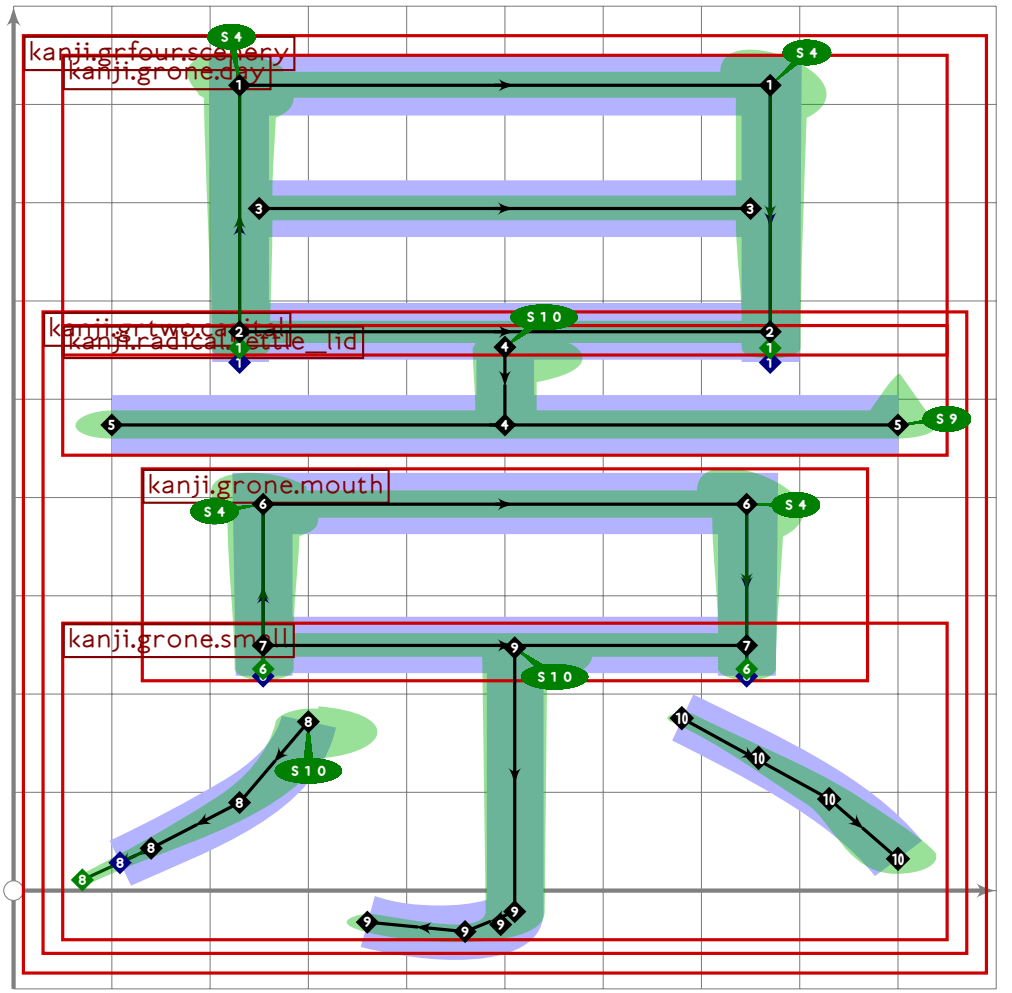
U+6697
tsuku.uni6697



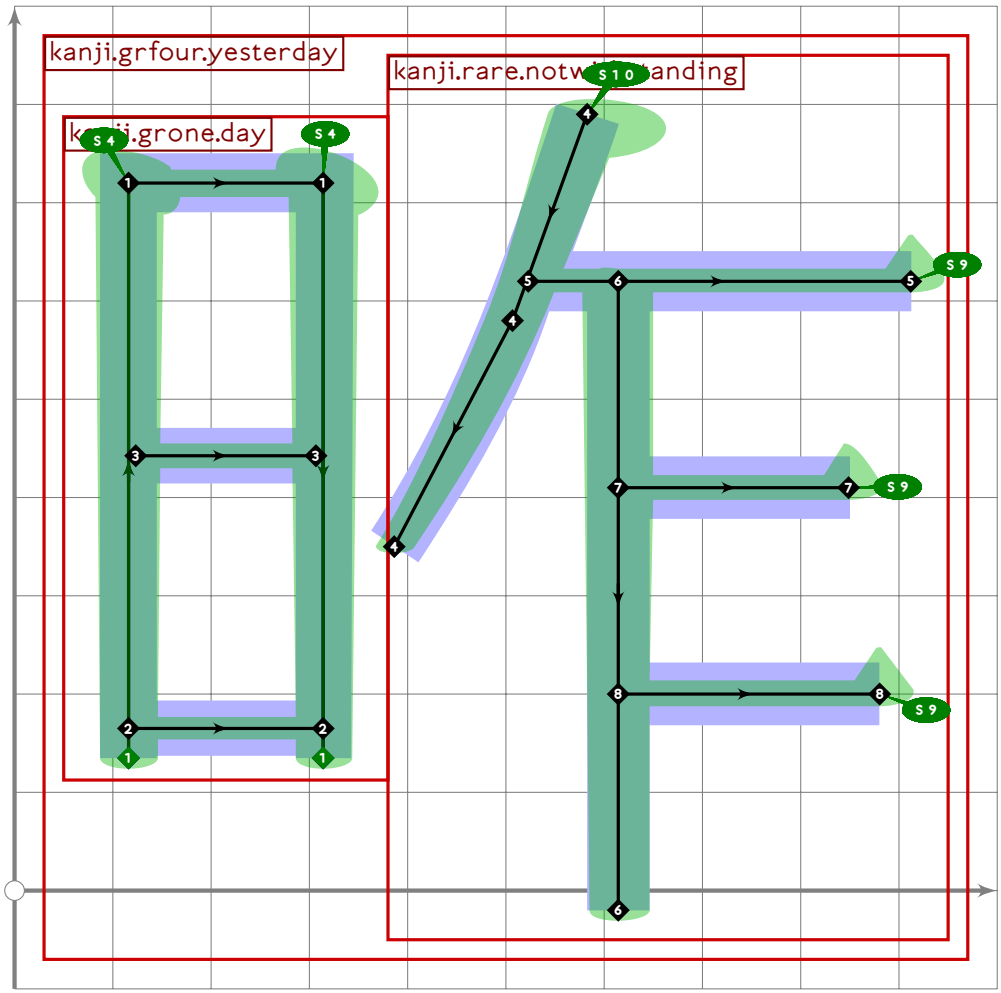

```
130
131 vardef  kanji.grthree.dark =
132   push_pbox_toexpand("kanji.grthree.dark");
133   build_kanji.lr(330,0)
134     (kanji.leftrad.day)
135     (kanji.grone.noise);
136   expand_pbox;
137 enddef;
```



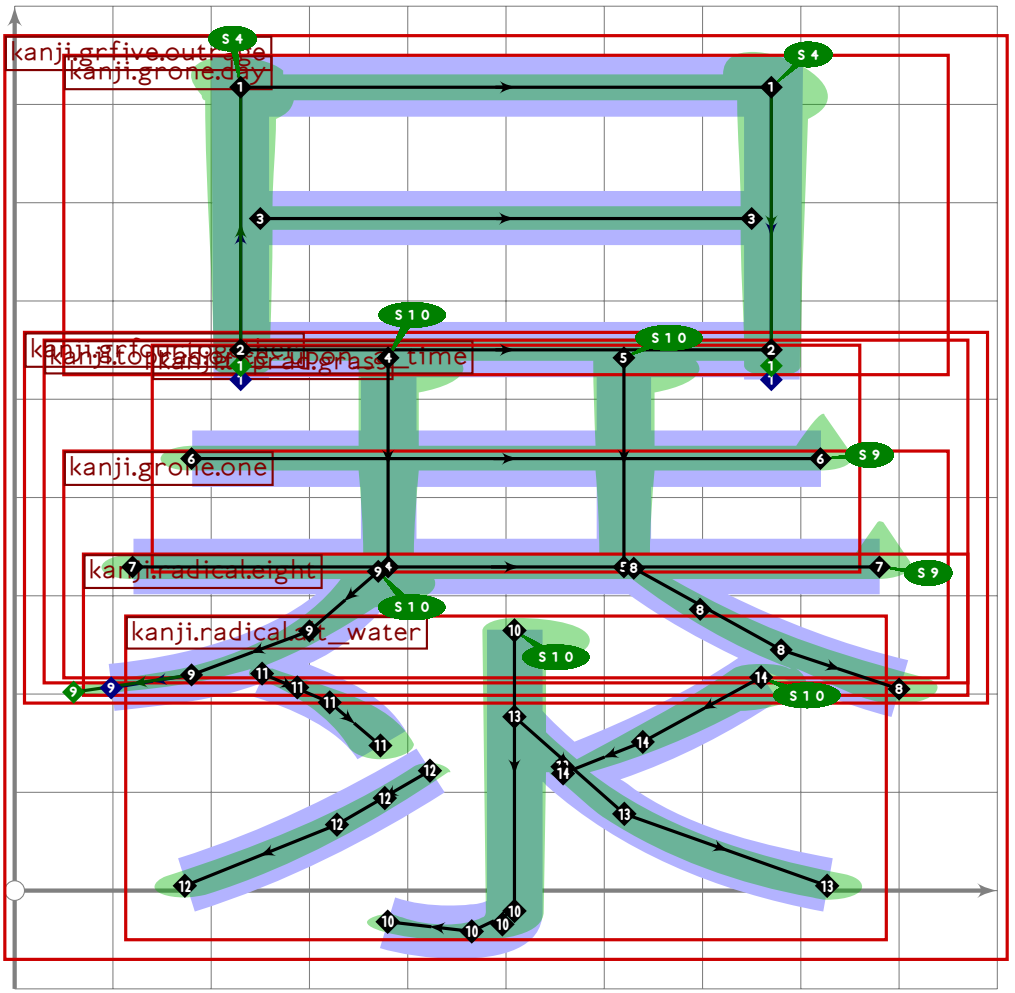

```
vardef  kanji.grthree.heat =
  push_pbox_toexpand("kanji.grthree.heat");
  build_kanji.tb(520,0)
    (kanji.grone.day)
    (kanji.grthree.person);
  expand_pbox;
enddef;
```



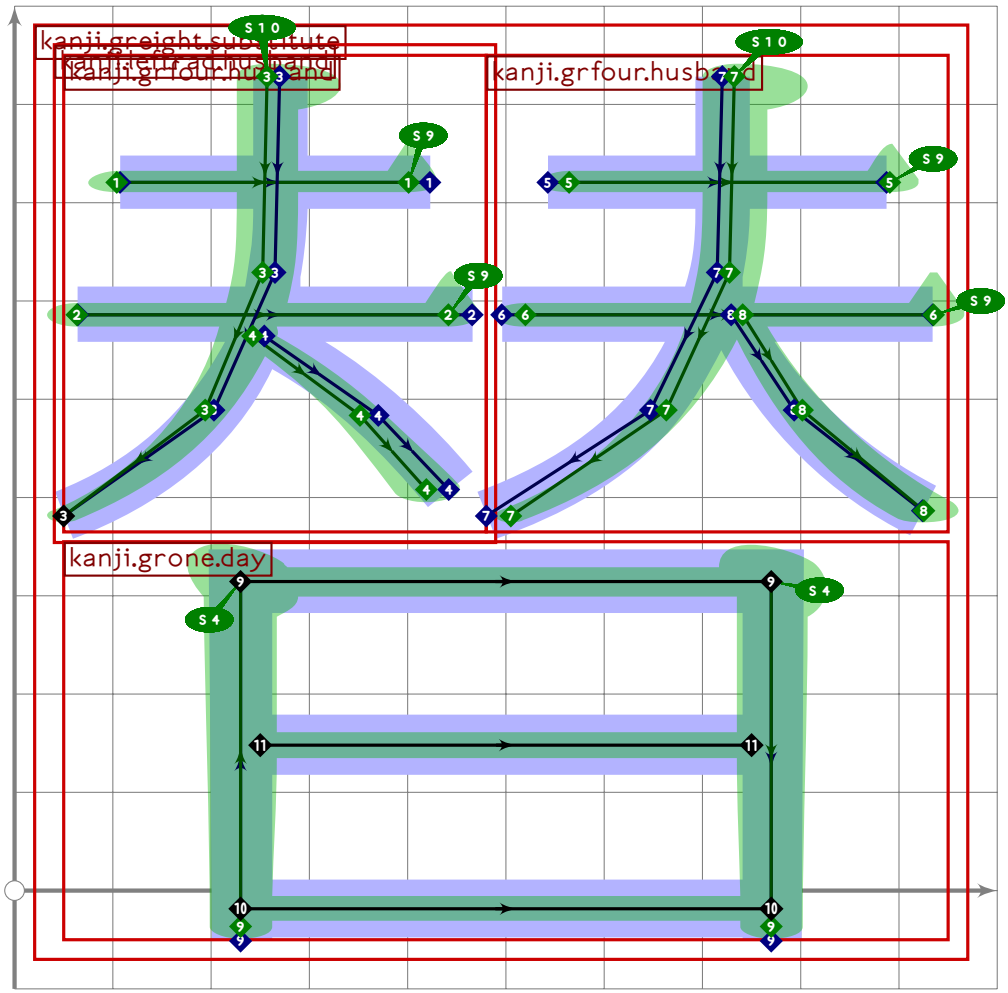

```
148
149 vardef kanji.grfour.scenery =
150   push_pbox_toexpand("kanji.grfour.scenery");
151   build_kanji.level(build_kanji.tb(560,30)
152     (kanji.grone.day)
153     (kanji.grtwo.capital));
154   expand_pbox;
155 enddef;
```




```
156
157 vardef kanji.grfour.yesterday =
158   push_pbox_toexpand("kanji.grfour.yesterday");
159   build_kanji.lr(380,0)
160     (tsu_xform(identity shifted (0,-600) yscaled 0.75 shifted (0,600))
161         (kanji.grone.day))
162     (kanji.rare.notwithstanding);
163   expand_pbox;
164 enddef;
165
166 ---------------------------------------------------------------------------
```




```
vardef kanji.grfive.outrage =
  push_pbox_toexpand("kanji.grfive.outrage");
  build_kanji.level(build_kanji.tb(540,30)
    (kanji.grone.day)
    (build_kanji.tb(380,120)
      (kanji.grfour.together)
      (build_kanji.sscale(xscaled 0.86)(kanji.radical.alt_water);
       replace_strokep(-3)(oldp shifted (70,90));
       replace_strokep(0)(oldp shifted (-50,90)))));
  expand_pbox;
enddef;
```




```
vardef kanji.greight.substitute =
  push_pbox_toexpand("kanji.greight.substitute");
  build_kanji.tb(360,-10)
    (build_kanji.lr(480,-50*mincho)
        (kanji.leftrad.husband)
        (kanji.grfour.husband))
    (kanji.grone.day);
  expand_pbox;
enddef;
```

```
% shou/sakan "prosperity"
begintsuglyph("uni660C",12);                                  [see page 788]
  kanji.grnine.prosperity;
  tsu_render;
endtsuglyph;

% mei/aka "light"
begintsuglyph("uni660E",14);                                  [see page 515]
```

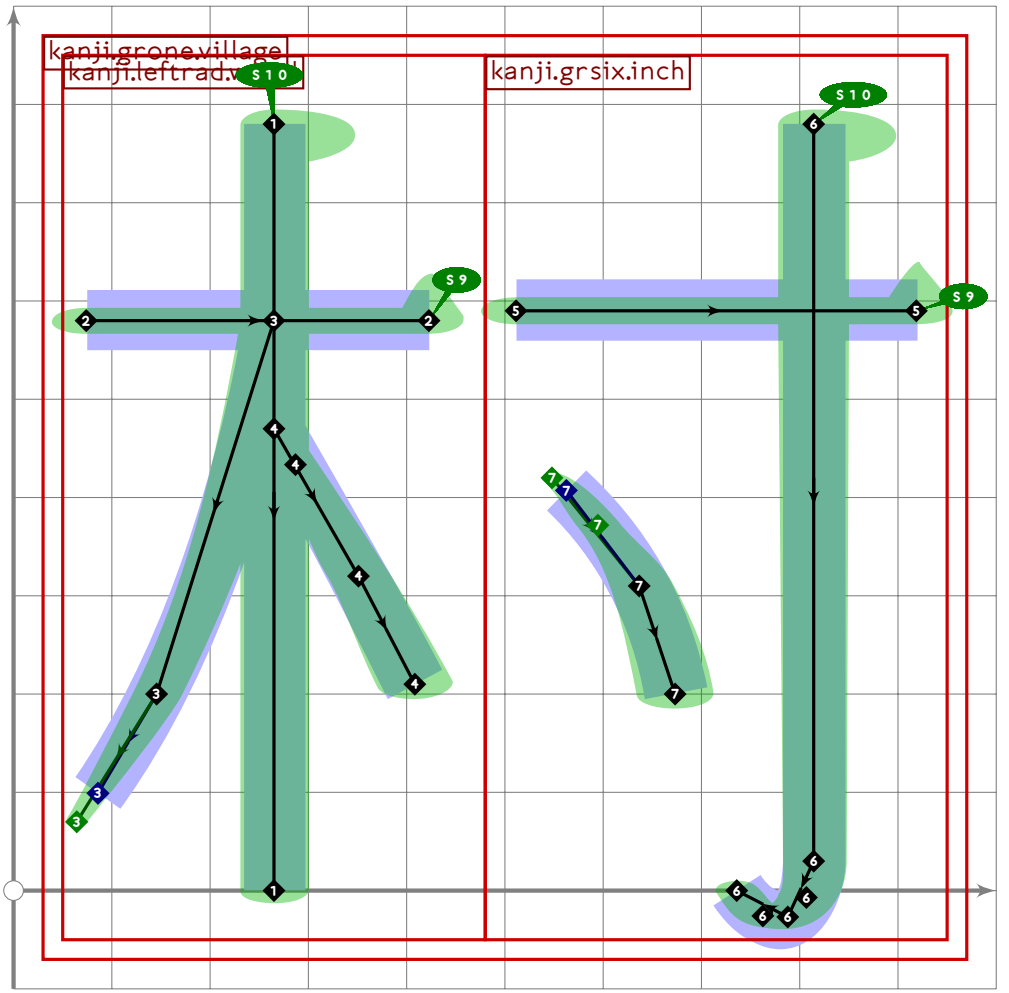
```
  kanji.grtwo.light;
  tsu_render;
endtsuglyph;

% eki/yasi/yasu "easy"
begintsuglyph("uni6613",19);                                    [see page 637]
  kanji.grfive.easy;
  tsu_render;
endtsuglyph;

% seki/mukashi "once upon a time"
begintsuglyph("uni6614",20);                                    [see page 585]
  kanji.grthree.once_upon_a_time;
  tsu_render;
endtsuglyph;

% you "sun" or "open" (rare, but part of other chars)
begintsuglyph("uni661C",28);                                    [see page 839]
  kanji.rare.sun;
  tsu_render;
endtsuglyph;

% sei/hoshi "star"
begintsuglyph("uni661F",31);                                    [see page 2286]
  kanji.grtwo.star;
  tsu_render;
endtsuglyph;

% shun/haru "spring (season)"
begintsuglyph("uni6625",37);                                    [see page 2285]
  kanji.grtwo.spring;
  tsu_render;
endtsuglyph;

% saku "yesterday"
begintsuglyph("uni6628",40);                                    [see page 2293]
  kanji.grfour.yesterday;
  tsu_render;
endtsuglyph;

% shou "shining"
begintsuglyph("uni662D",45);                                    [see page 591]
  kanji.grthree.shining;
  tsu_render;
endtsuglyph;

% ze/kore "righteousness"
begintsuglyph("uni662F",47);                                    [see page 761]
```

```
  kanji.greight.righteousness;
  tsu_render;
endtsuglyph;

% chuu/hiro "daytime"
begintsuglyph("uni663C",60);                                    [see page 2283]
  kanji.grtwo.daytime;
  tsu_render;
endtsuglyph;

% jo/toki "time"
begintsuglyph("uni6642",66);                                    [see page 2287]
  kanji.grtwo.time;
  tsu_render;
endtsuglyph;

% kei "scenery"
begintsuglyph("uni666F",111);                                   [see page 2292]
  kanji.grfour.scenery;
  tsu_render;
endtsuglyph;

% sei/ha "fair or clear weather"
begintsuglyph("uni6674",116);                                   [see page 2284]
  kanji.grtwo.fairweather;
  tsu_render;
endtsuglyph;

% sho/atsu "heat"
begintsuglyph("uni6691",145);                                   [see page 2291]
  kanji.grthree.heat;
  tsu_render;
endtsuglyph;

% an/kura "dark"
begintsuglyph("uni6697",151);                                   [see page 2290]
  kanji.grthree.dark;
  tsu_render;
endtsuglyph;

% bou/aba "outrage"
begintsuglyph("uni66B4",180);                                   [see page 2294]
  kanji.grfive.outrage;
  tsu_render;
endtsuglyph;

% you "day of week"
begintsuglyph("uni66DC",220);                                   [see page 2288]
```

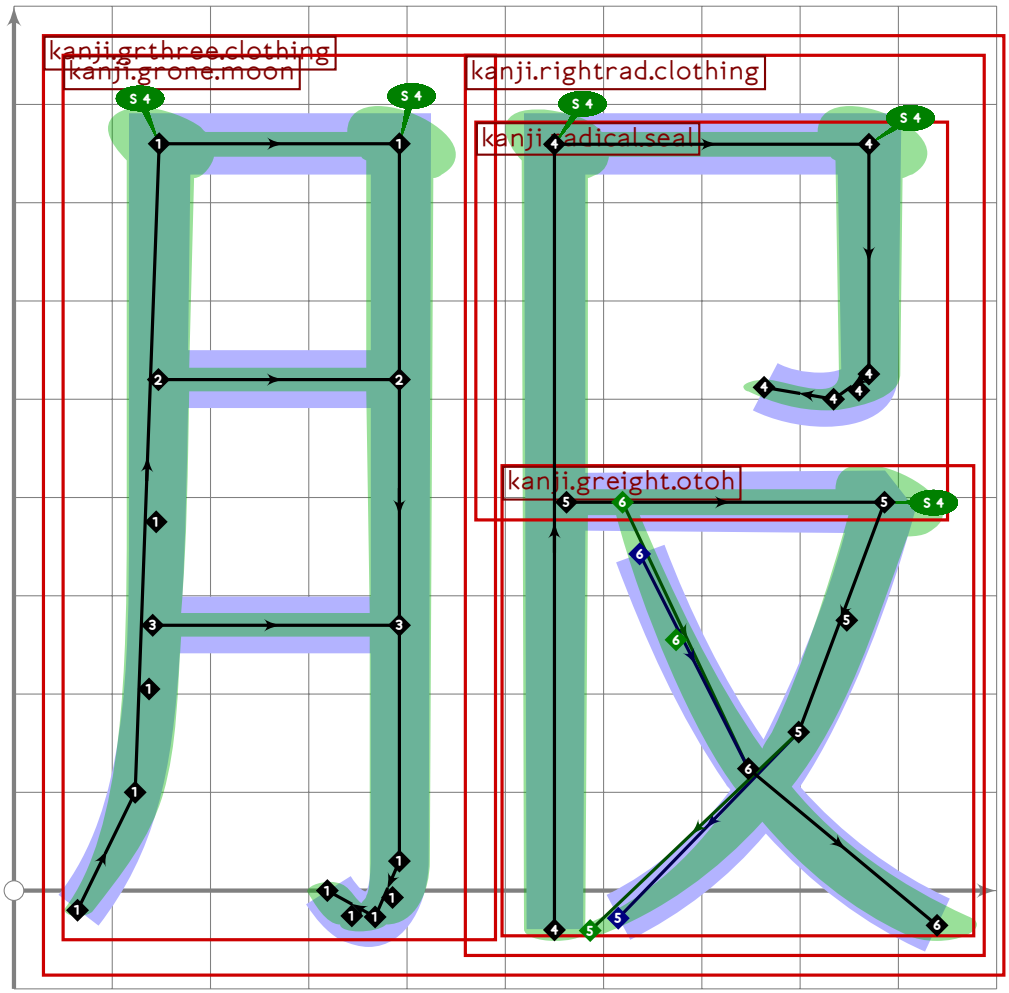
```
  kanji.grtwo.day_of_week;
  tsu_render;
endtsuglyph;

% kyoku/ma "melody"
begintsuglyph("uni66F2",242);                                    [see page 582]
  kanji.grthree.melody;
  tsu_render;
endtsuglyph;

% kou/sara "night watch"
begintsuglyph("uni66F4",244);                                    [see page 751]
  kanji.greight.night_watch;
  tsu_render;
endtsuglyph;

% sho/ka "writing"
begintsuglyph("uni66F8",248);                                    [see page 2289]
  kanji.grtwo.writing;
  tsu_render;
endtsuglyph;

% tai/ka "substitute"
begintsuglyph("uni66FF",255);                                    [see page 2295]
  kanji.greight.substitute;
  tsu_render;
endtsuglyph;

---

endfont;

---
```

```
%
% Unicode page 67 (Kanji) for Tsukurimashou
% Copyright (C) 2011, 2012, 2013 Matthew Skala
%
[Standard copyright notice]

---

beginfont

% AUTODEPS
input bottomrad.mp;
input buildkanji.mp;
input gradeeight.mp;
input gradefour.mp;
input gradenine.mp;
input gradeone.mp;
input gradesix.mp;
input gradethree.mp;
input gradetwo.mp;
input leftrad.mp;
input radical.mp;
input rare.mp;
input rightrad.mp;

do_late_includes;

---
```

U+6751
tsuku.uni6751

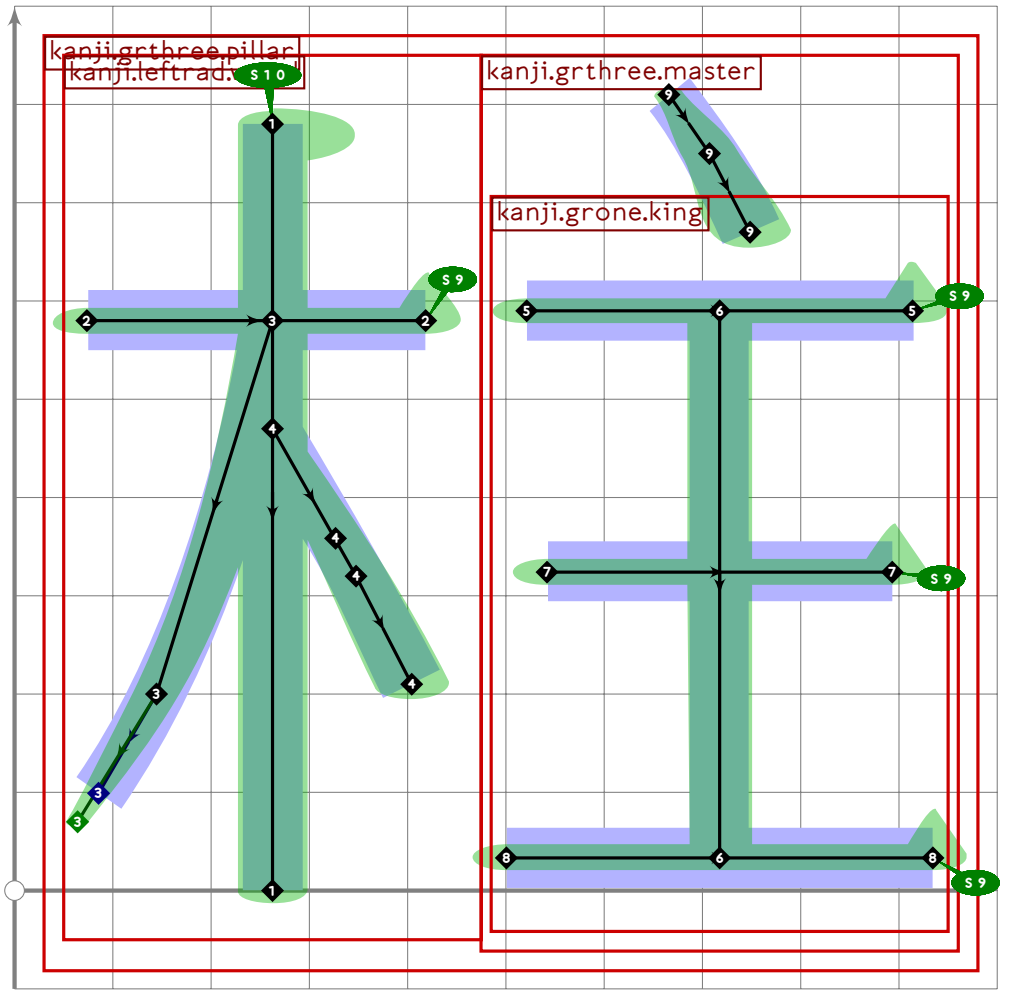



```
vardef  kanji.grone.village =
  push_pbox_toexpand("kanji.grone.village");
  build_kanji.lr(480,0)
    (kanji.leftrad.wood)
    (kanji.grsix.inch);
  expand_pbox;
enddef;
```

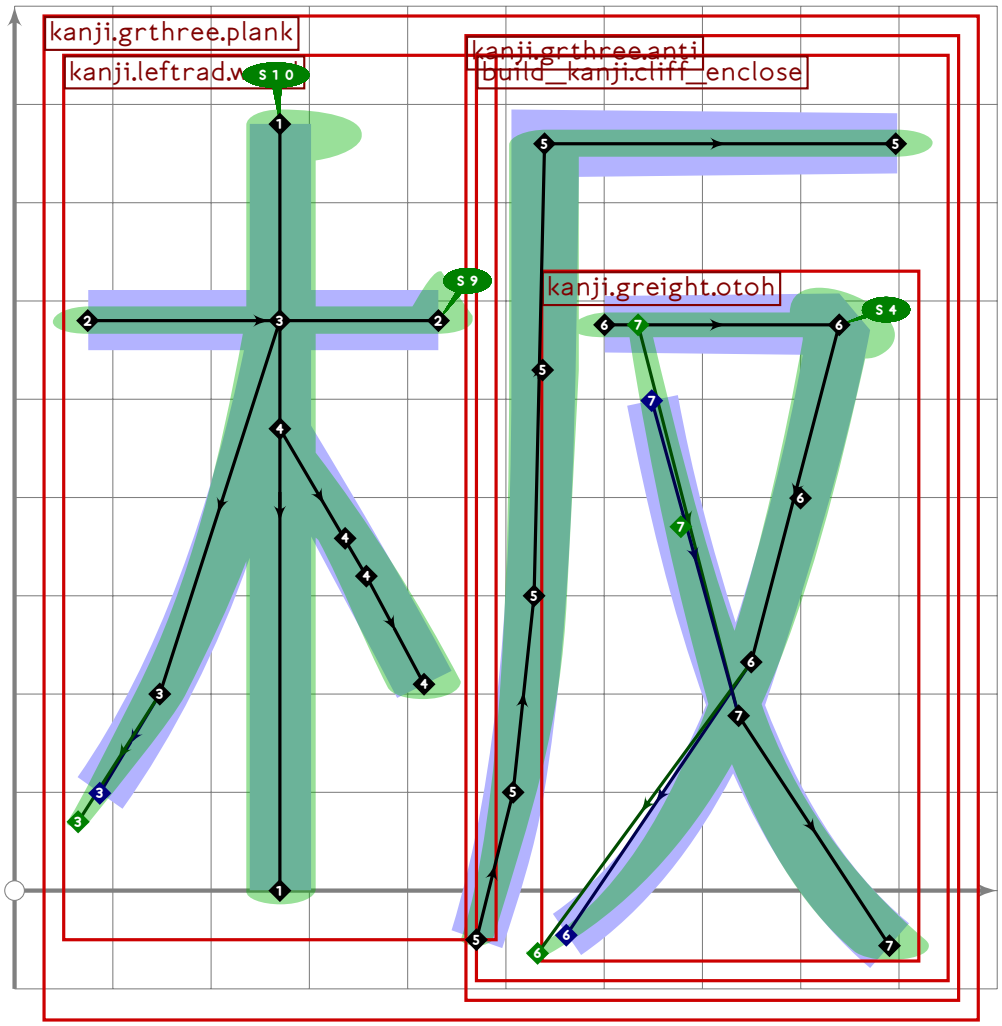



```
63
64 vardef kanji.grthree.clothing =
65   push_pbox_toexpand("kanji.grthree.clothing");
66   build_kanji.level(build_kanji.lr(480,20)
67     (kanji.grone.moon)
68     (kanji.rightrad.clothing));
69   expand_pbox;
70 enddef;
```

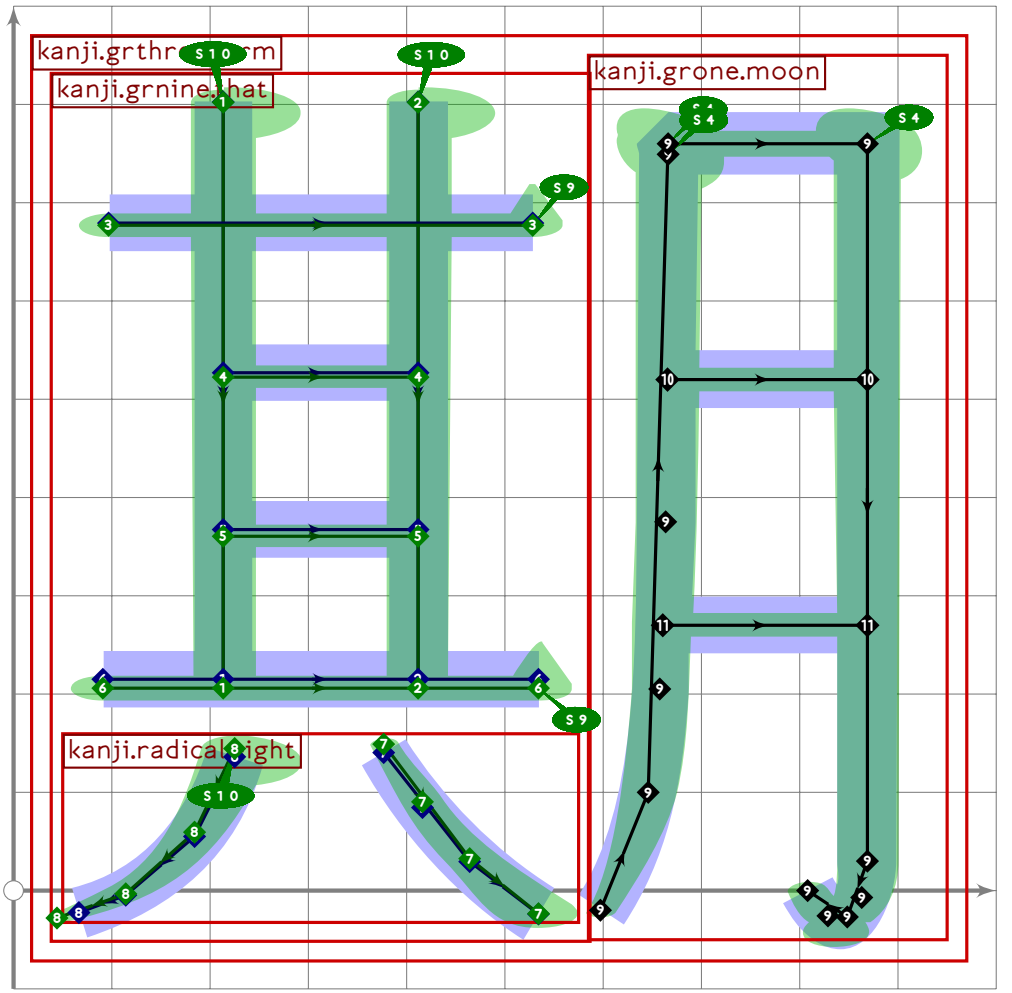
U+67F1
tsuku.uni67F1



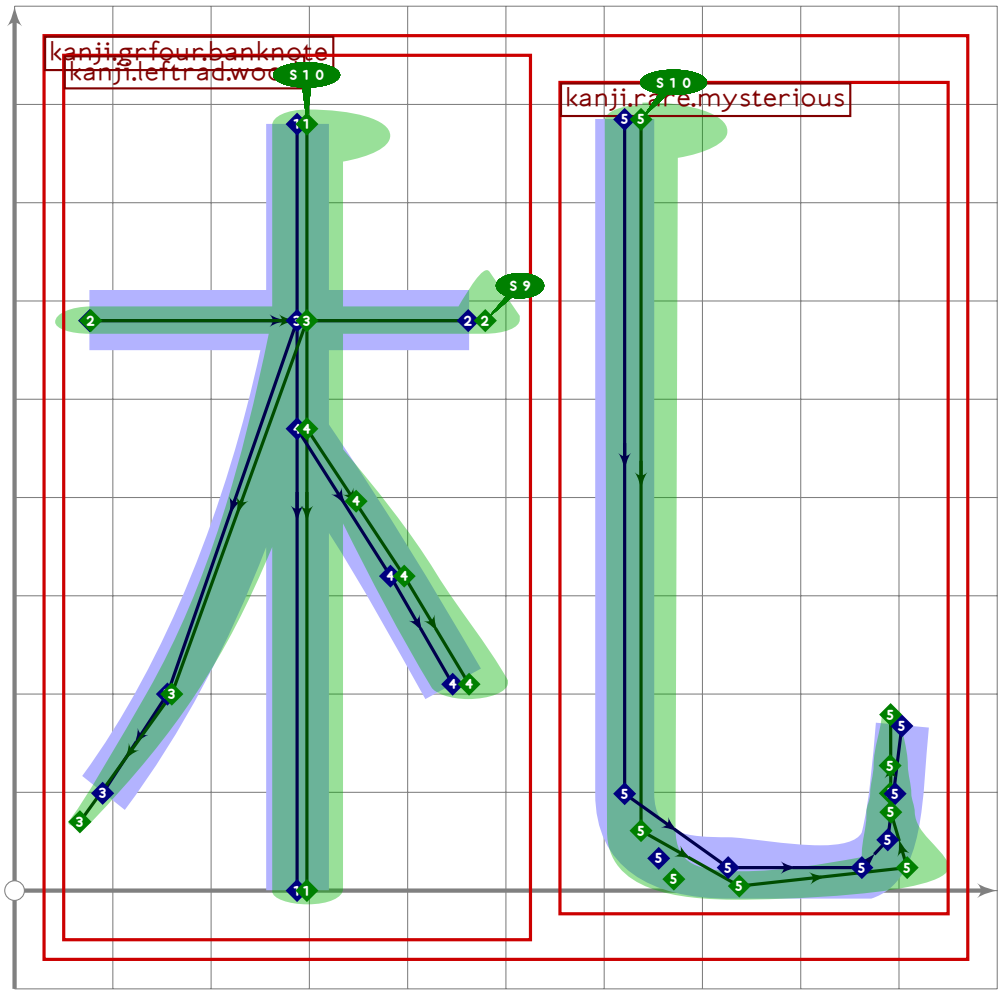

```
71
72 vardef kanji.grthree.pillar =
73   push_pbox_toexpand("kanji.grthree.pillar");
74   build_kanji.lr(480,-10)
75     (kanji.leftrad.wood)
76     (kanji.grthree.master);
77   expand_pbox;
78 enddef;
```




```
79
80 vardef  kanji.grthree.plank =
81   push_pbox_toexpand("kanji.grthree.plank");
82   build_kanji.lr(480,20)
83     (kanji.leftrad.wood)
84     (kanji.grthree.anti);
85   expand_pbox;
86 enddef;
```

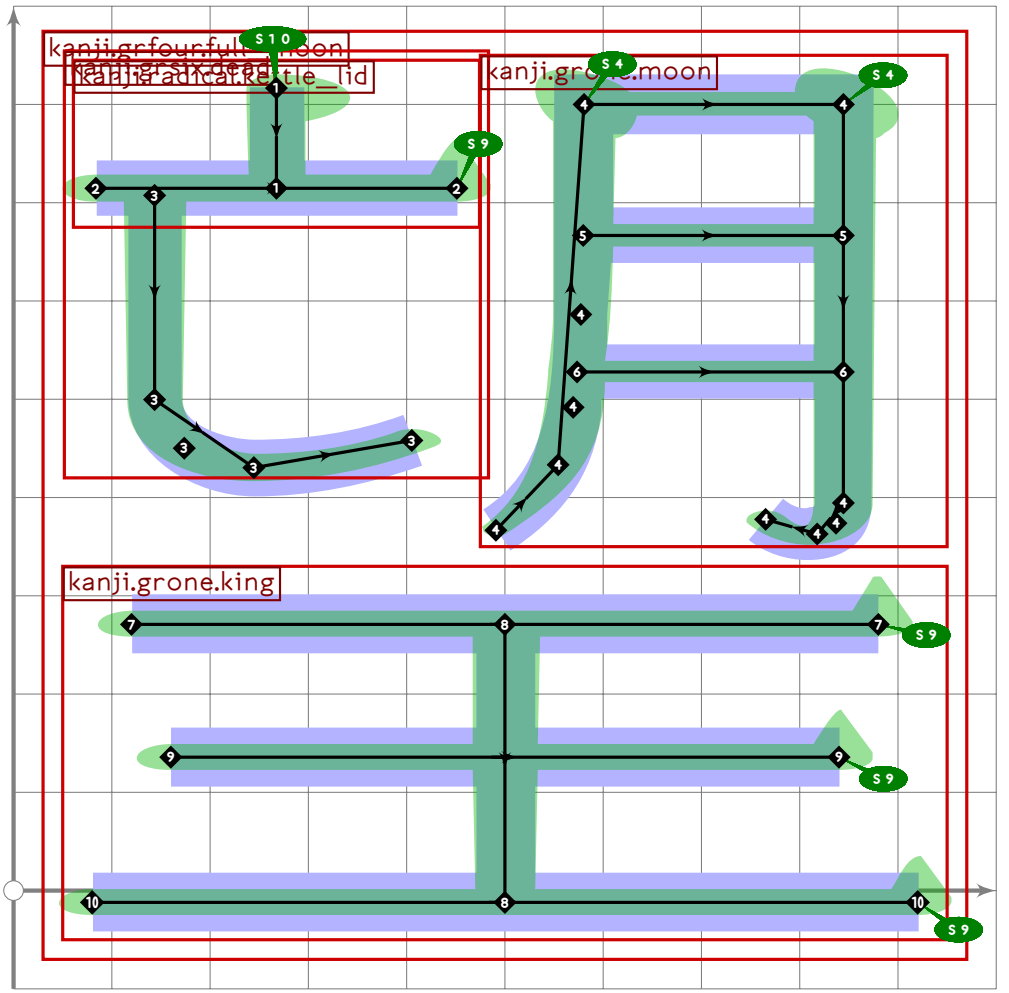



```
87
88 vardef  kanji.grthree.term =
89   push_pbox_toexpand("kanji.grthree.term");
90   build_kanji.lr(580,-10)
91     (build_kanji.sscale(yscaled  0.96)(kanji.grnine.that))
92     (kanji.grone.moon);
93   expand_pbox;
94 enddef;
95
96 ---------------------------------------------------------------
```

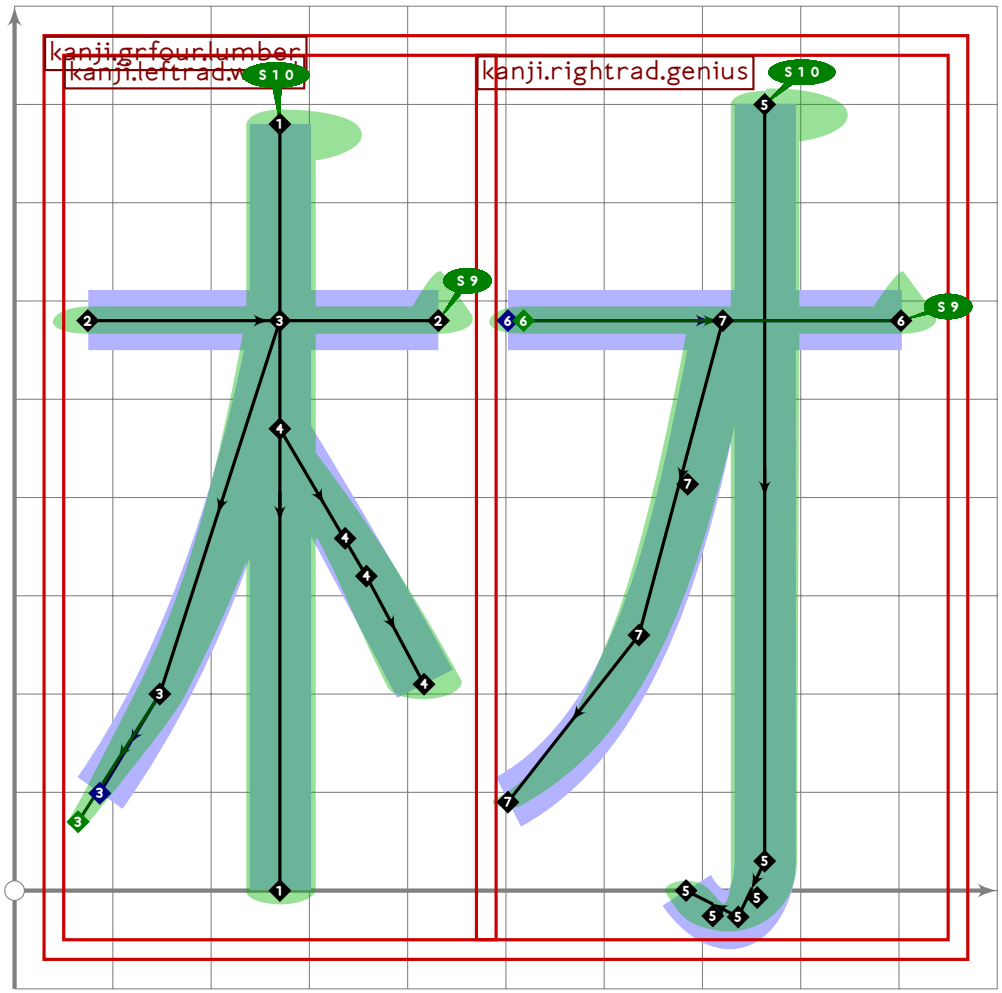



```
97
98 vardef  kanji.grfour.banknote =
99   push_pbox_toexpand("kanji.grfour.banknote");
100  build_kanji.lr(540+20*mincho,-30)
101    (kanji.leftrad.wood)
102    (build_kanji.sscale(yscaled  0.94)(kanji.rare.mysterious));
103  expand_pbox;
104 enddef;
```

U+671B
tsuku.uni671B

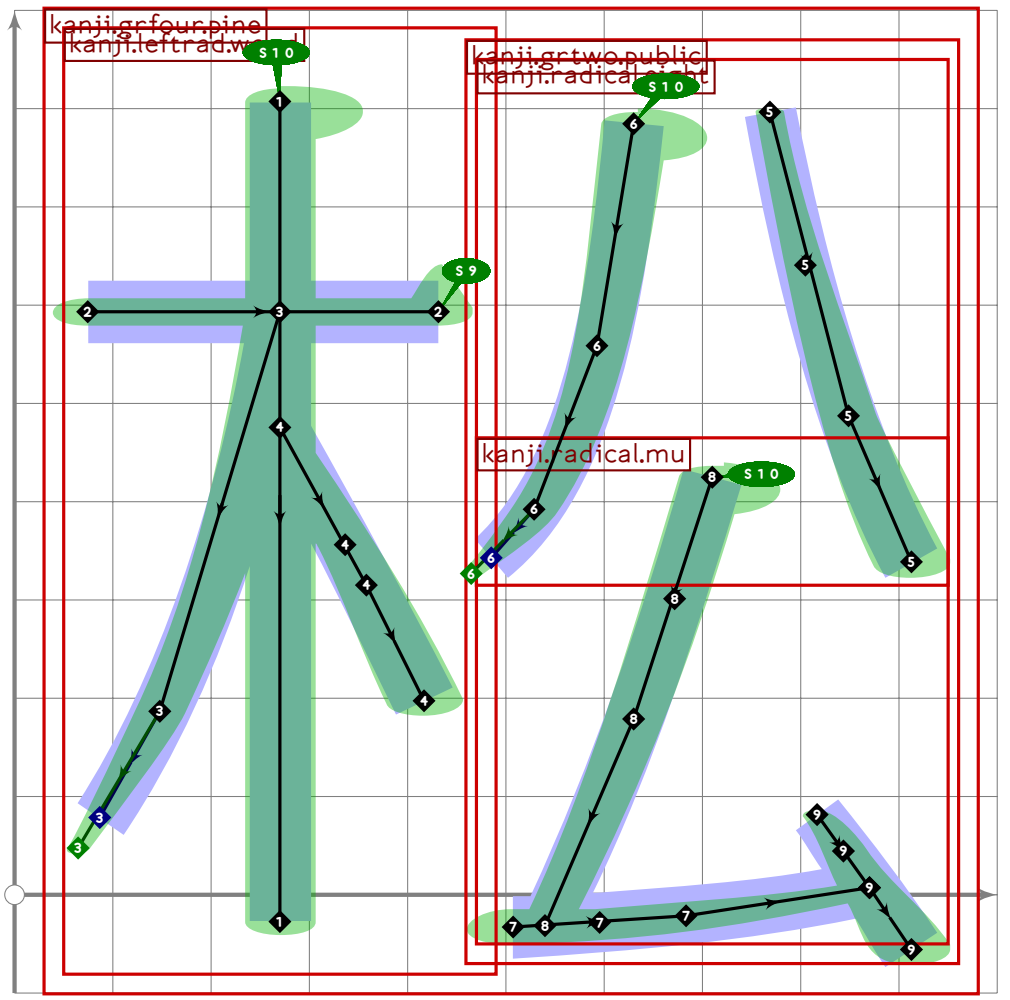



```
105
106 vardef kanji.grfour.full_moon =
107   push_pbox_toexpand("kanji.grfour.full_moon");
108   build_kanji.tb(340,-20)
109     (build_kanji.lr(480,10)
110         (build_kanji.sscale(xyscaled (0.95,0.85) shifted (0,60))
111             (kanji.grsix.dead))
112         (kanji.grone.moon))
113     (kanji.grone.king);
114   expand_pbox;
115 enddef;
```

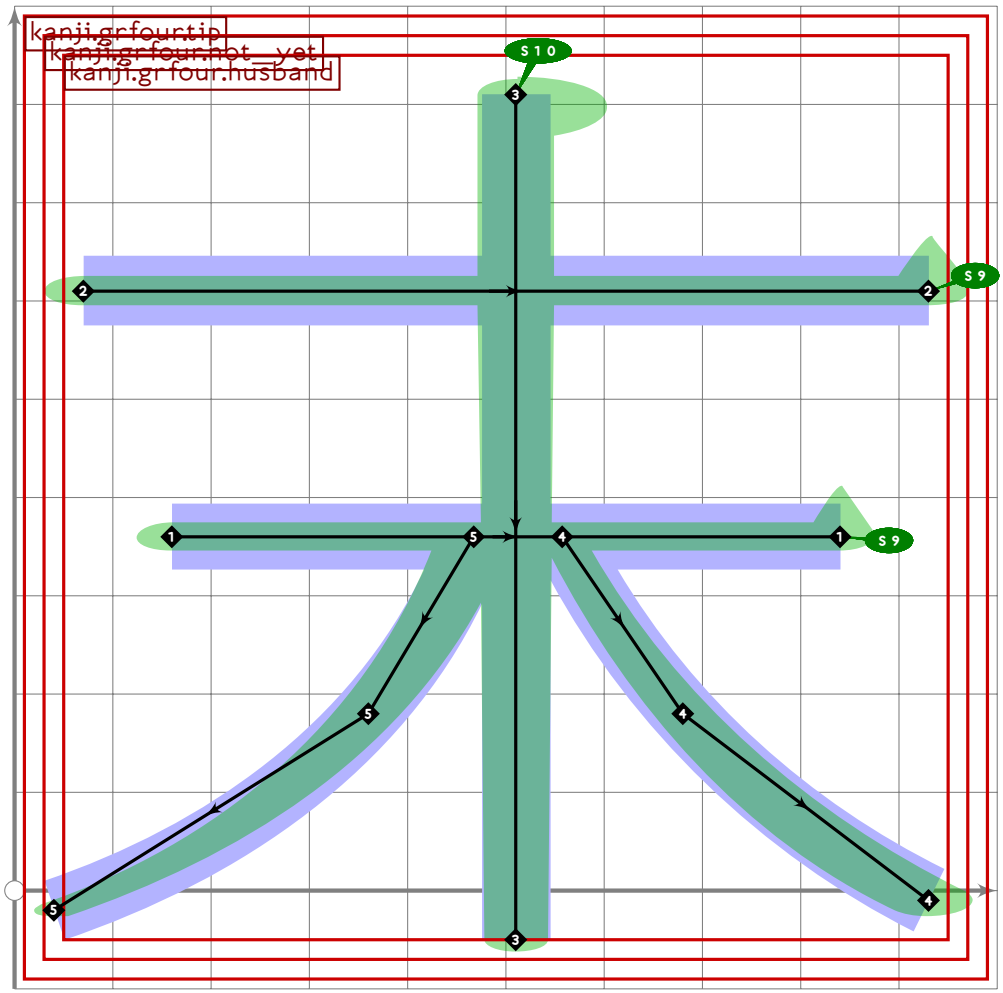



```
116
117 vardef  kanji.grfour.lumber =
118   push_pbox_toexpand("kanji.grfour.lumber");
119   build_kanji.lr(480,20)
120     (kanji.leftrad.wood)
121     (kanji.rightrad.genius);
122   expand_pbox;
123 enddef;
```

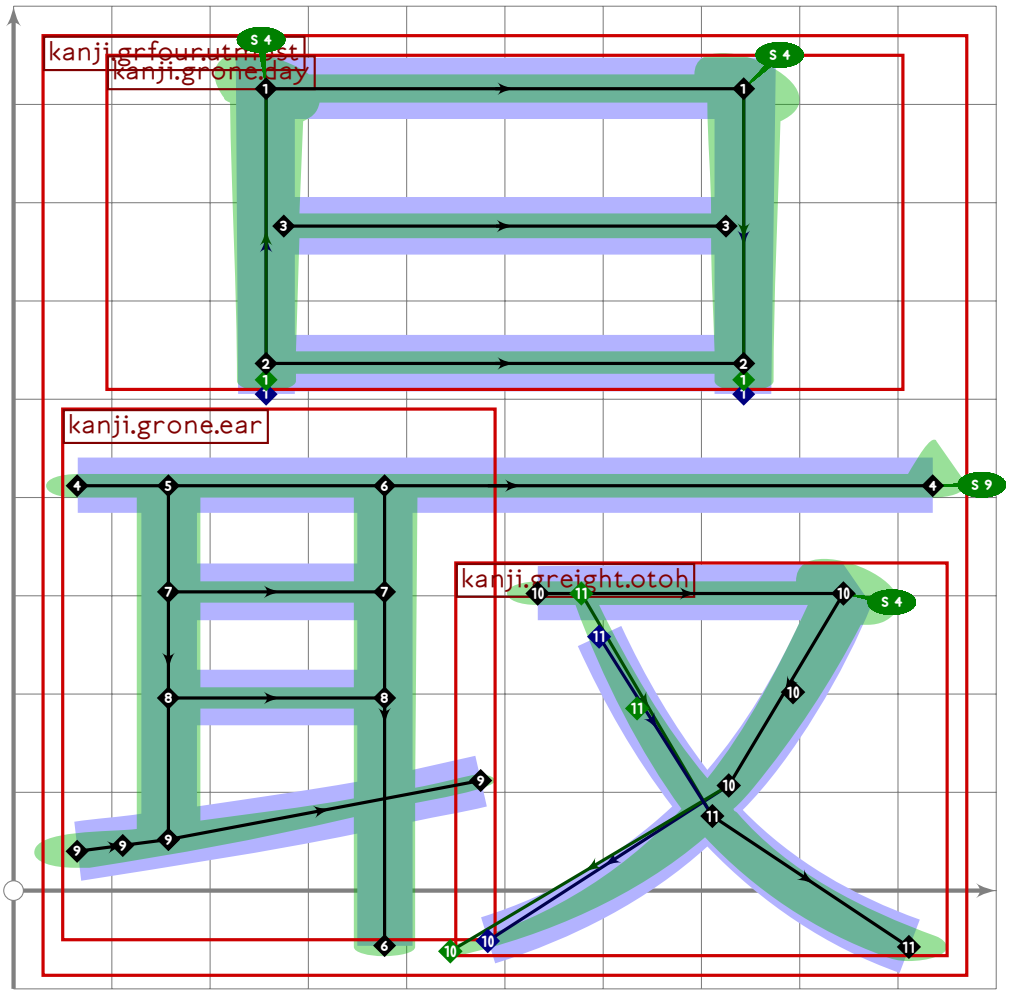
U+677E
tsuku.uni677E



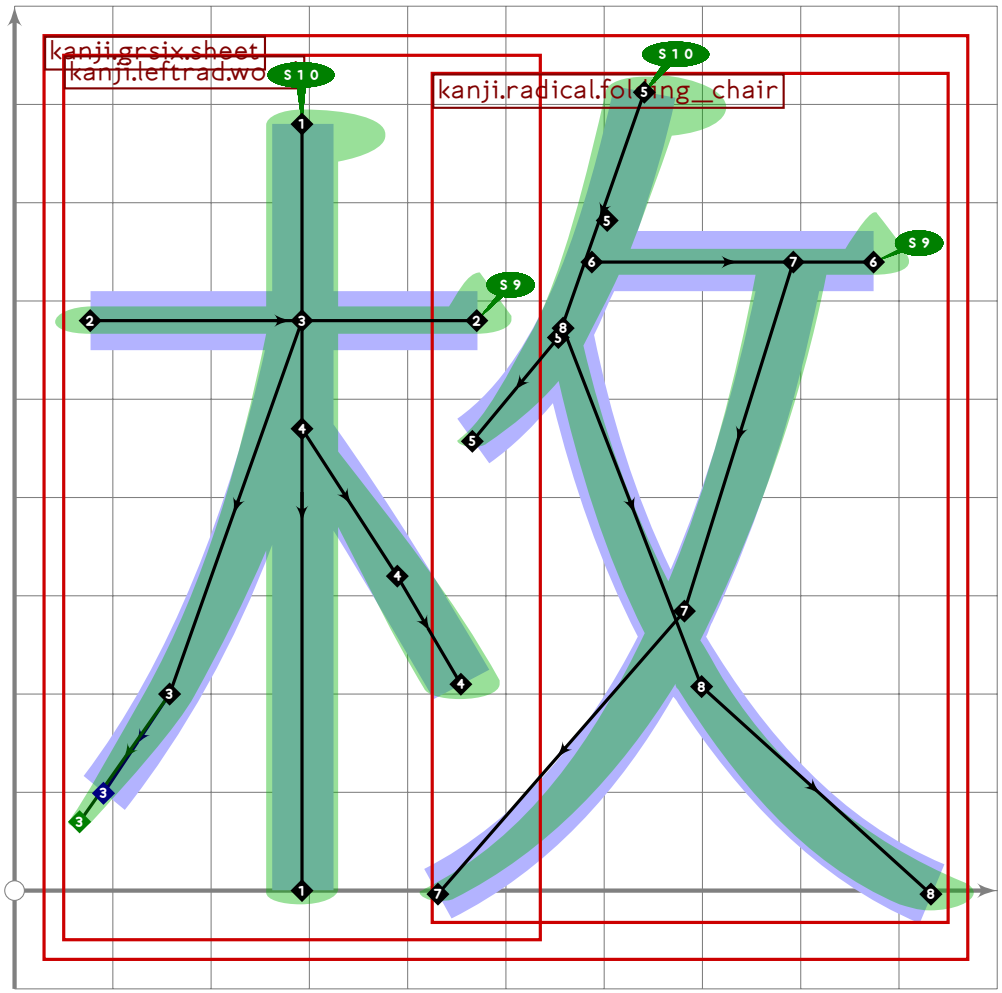

```
124
125 vardef  kanji.grfour.pine =
126   push_pbox_toexpand("kanji.grfour.pine");
127   build_kanji.lr(480,20)
128     (build_kanji.sscale(yscaled  1.07)(kanji.leftrad.wood))
129     (kanji.grtwo.public);
130   expand_pbox;
131 enddef;
```




```
132
133 vardef kanji.grfour.tip =
134   push_pbox_toexpand("kanji.grfour.tip");
135   kanji.grfour.not_yet;
136   replace_strokep(-3)((70,610)–(930,610));
137   replace_strokep(-4)((160,360)–(840,360));
138   expand_pbox;
139 enddef;
```

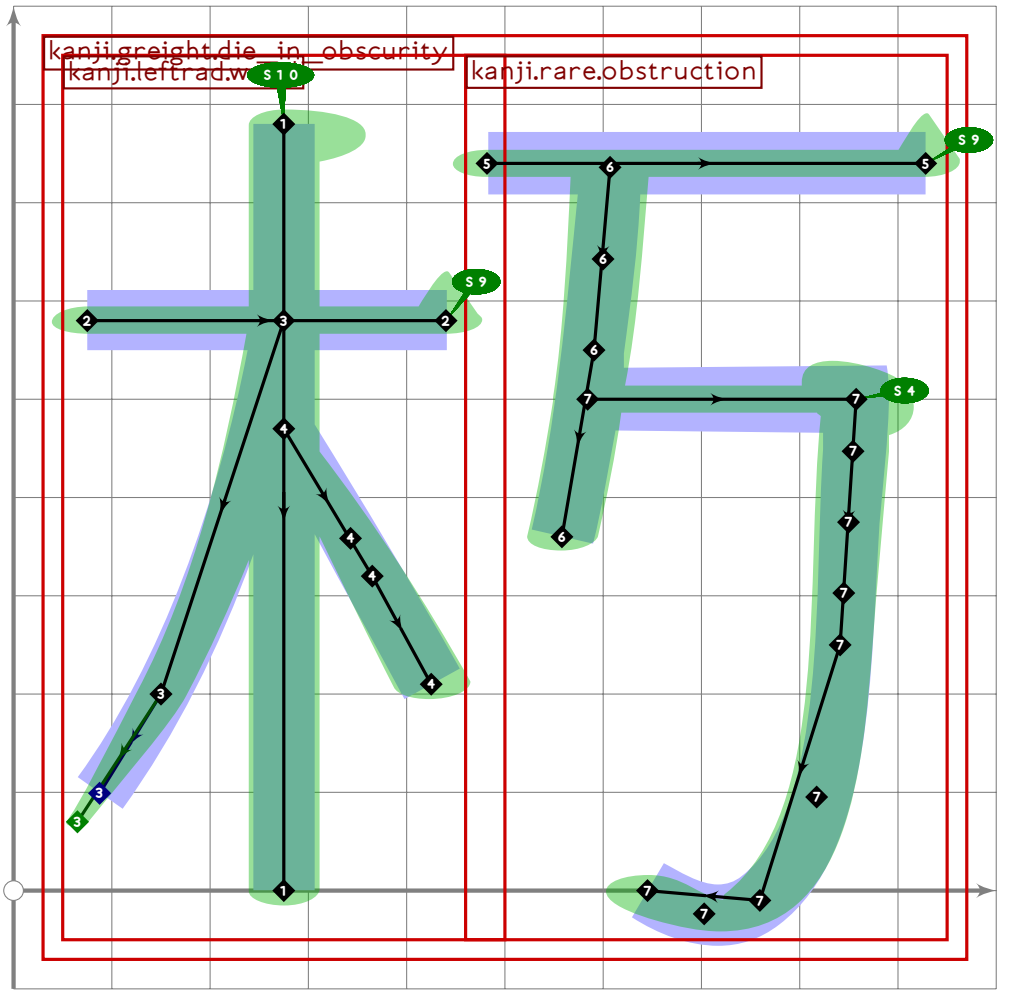



```
140
141 vardef kanji.grfour.utmost =
142   push_pbox_toexpand("kanji.grfour.utmost");
143   build_kanji.tb(500,-20)
144     (build_kanji.sscale(xscaled 0.9)(kanji.grone.day))
145     (build_kanji.lr(470,40)
146         (kanji.grone.ear)
147         (tsu_xform(identity yscaled 0.74 shifted (0,-40))
148             (kanji.greight.otoh));
149      replace_strokep(-7)
150         (point 0 of oldp--(point 0 of oldp xscaled -1 shifted (1000,0))));
151   expand_pbox;
152 enddef;
153
154 ---------------------------------------------------------------------------
```

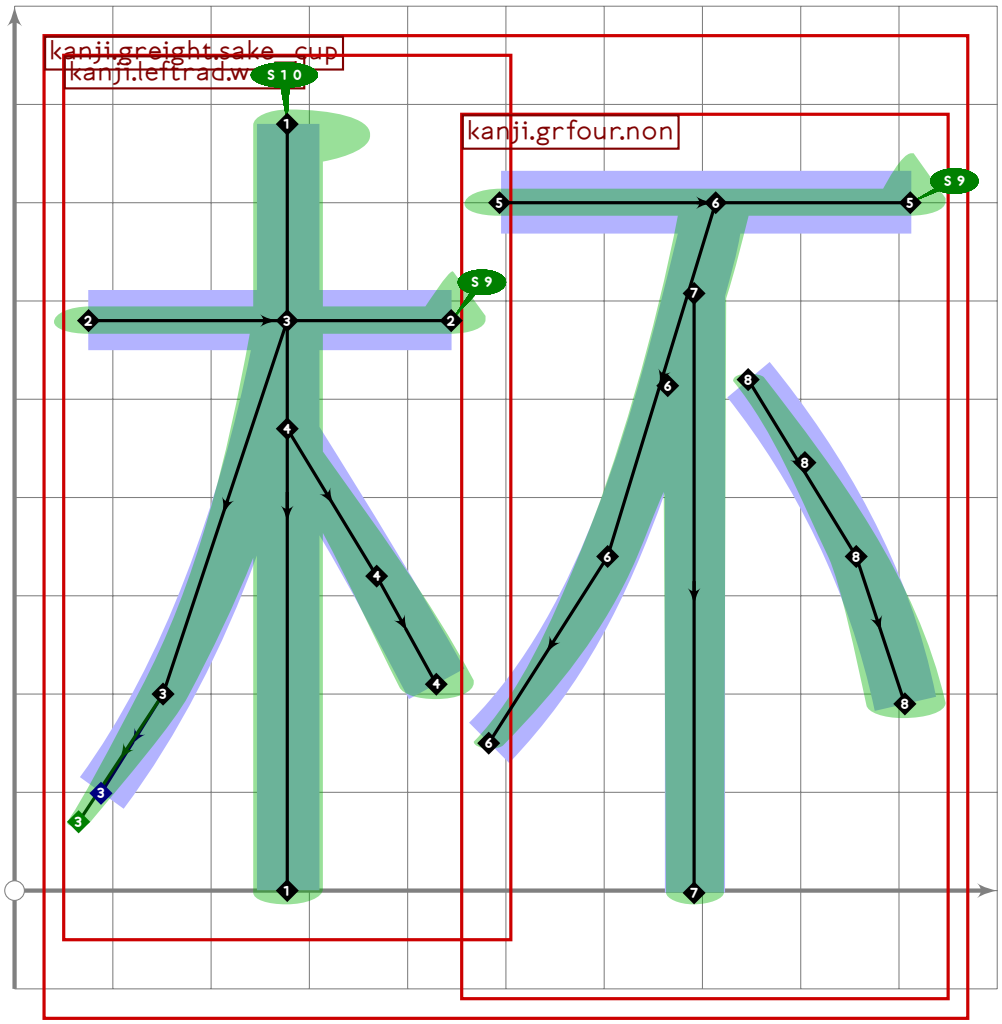



```
vardef kanji.grsix.sheet =
  push_pbox_toexpand("kanji.grsix.sheet");
  build_kanji.lr(480,110)
    (kanji.leftrad.wood)
    (build_kanji.sscale(yscaled 0.96)(kanji.radical.folding_chair));
  expand_pbox;
enddef;
```

U+673D
tsuku.uni673D




```
165
166 vardef kanji.greight.die_in_obscurity =
167   push_pbox_toexpand("kanji.greight.die_in_obscurity");
168   build_kanji.lr(480,40)
169     (kanji.leftrad.wood)
170     (kanji.rare.obstruction);
171   expand_pbox;
172 enddef;
```




```
173
174 vardef kanji.greight.sake_cup =
175   push_pbox_toexpand("kanji.greight.sake_cup");
176   build_kanji.lr(480,50)
177     (kanji.leftrad.wood)
178     (build_kanji.sscale(shifted (0,-60))(kanji.grfour.non));
179   replace_strokep(-1)(subpath (0,0.85) of oldp);
180   expand_pbox;
181 enddef;
182
183 ---------------------------------------------------------------------------
184
185 % sai/motto "utmost"
186 begintsuglyph("uni6700",0);                                  [see page 2310]
187   kanji.grfour.utmost;
188   tsu_render;
189 endtsuglyph;
190
191 % tsuki/getsu "moon"
192 begintsuglyph("uni6708",8);                                  [see page 446]
```

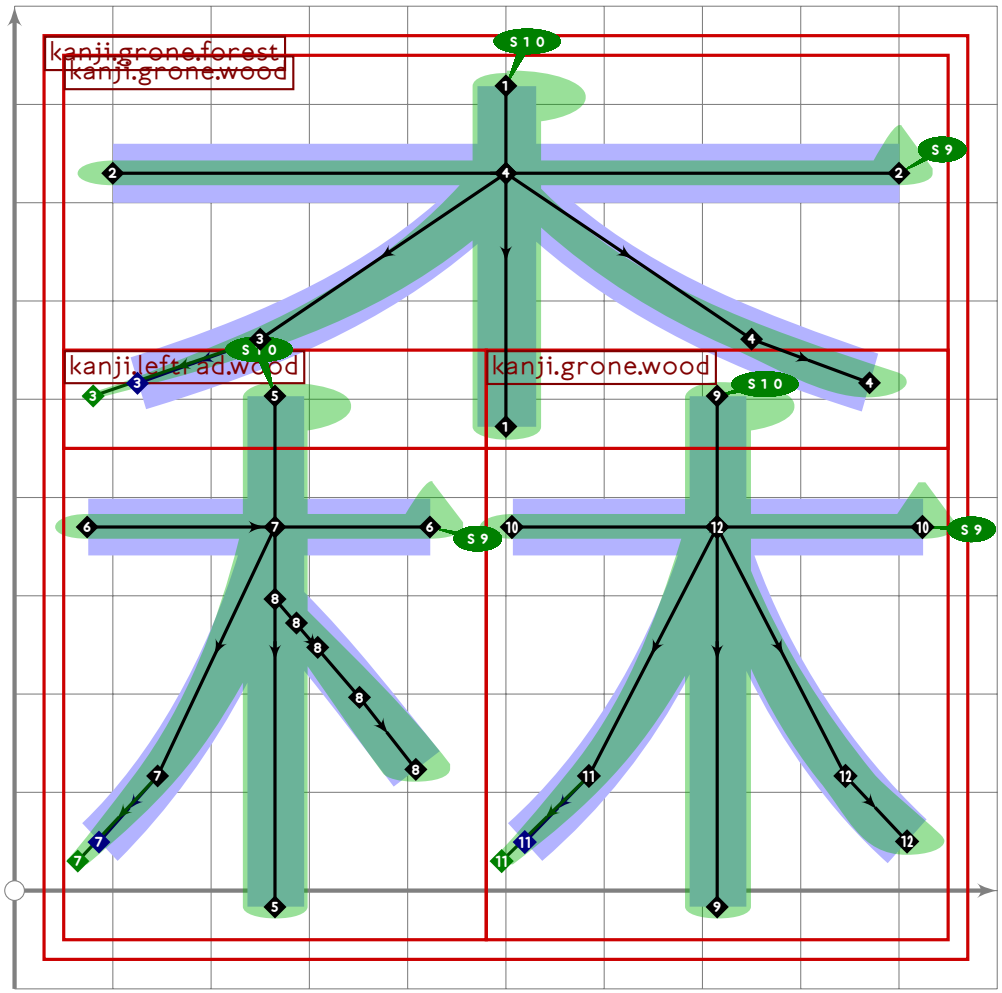
```
  kanji.grone.moon;
  tsu_render;
endtsuglyph;

% yuu/a "to have"
begintsuglyph("uni6709",9);                                    [see page 568]
  kanji.grthree.existence;
  tsu_render;
endtsuglyph;

% fuku as in "sailor fuku"
begintsuglyph("uni670D",13);                                   [see page 2301]
  kanji.grthree.clothing;
  tsu_render;
endtsuglyph;

% bou/nozo "full moon" (and many other things by analogy)
begintsuglyph("uni671B",27);                                   [see page 2306]
  kanji.grfour.full_moon;
  tsu_render;
endtsuglyph;

% chou/asa "morning"
begintsuglyph("uni671D",29);                                   [see page 524]
  kanji.grtwo.morning;
  tsu_render;
endtsuglyph;

% ki "term" (limited time)
begintsuglyph("uni671F",31);                                   [see page 2304]
  kanji.grthree.term;
  tsu_render;
endtsuglyph;

% ki "wood"
begintsuglyph("uni6728",40);                                   [see page 480]
  kanji.grone.wood;
  tsu_render;
endtsuglyph;

% mi/ima "not yet", also zodiac sign of the ram
begintsuglyph("uni672A",42);                                   [see page 625]
  kanji.grfour.not_yet;
  tsu_render;
endtsuglyph;

% matsu/sue "tip"
begintsuglyph("uni672B",43);                                   [see page 2309]
```

```
  kanji.grfour.tip;
  tsu_render;
endtsuglyph;

% hon "book"
begintsuglyph("uni672C",44);                                    [see page 418]
  kanji.grone.book;
  tsu_render;
endtsuglyph;

% setsu/fuda "banknote"
begintsuglyph("uni672D",45);                                    [see page 2305]
  kanji.grfour.banknote;
  tsu_render;
endtsuglyph;

% kyuu/ku "die in obscurity"
begintsuglyph("uni673D",61);                                    [see page 2312]
  kanji.greight.die_in_obscurity;
  tsu_render;
endtsuglyph;

% son/mura "village"
begintsuglyph("uni6751",81);                                    [see page 2300]
  kanji.grone.village;
  tsu_render;
endtsuglyph;

% zai/ki "lumber"
begintsuglyph("uni6750",80);                                    [see page 2307]
  kanji.grfour.lumber;
  tsu_render;
endtsuglyph;

% soku/taba "bundle"
begintsuglyph("uni675F",95);                                    [see page 604]
  kanji.grfour.bundle;
  tsu_render;
endtsuglyph;

% ku/rai "come"
begintsuglyph("uni6765",101);                                   [see page 489]
  kanji.grtwo.come;
  tsu_render;
endtsuglyph;

% hai/sakazuki "sake cup"
begintsuglyph("uni676F",111);                                   [see page 2313]
```

```
  kanji.greight.sake_cup;
  tsu_render;
endtsuglyph;

% tou/higashi "east"
begintsuglyph("uni6771",113);                                    [see page 494]
  kanji.grtwo.east;
  tsu_render;
endtsuglyph;

% shou/matsu "pine"
begintsuglyph("uni677E",126);                                    [see page 2308]
  kanji.grfour.pine;
  tsu_render;
endtsuglyph;

% han/ita "plank"
begintsuglyph("uni677F",127);                                    [see page 2303]
  kanji.grthree.plank;
  tsu_render;
endtsuglyph;

% rin/hayashi "grove"
begintsuglyph("uni6797",151);                                    [see page 438]
  kanji.grone.grove;
  tsu_render;
endtsuglyph;

% mai "sheet" (counter for thin flat things)
begintsuglyph("uni679A",154);                                    [see page 2311]
  kanji.grsix.sheet;
  tsu_render;
endtsuglyph;

% ka/ha "fruit" or "result"
begintsuglyph("uni679C",156);                                    [see page 615]
  kanji.grfour.fruit;
  tsu_render;
endtsuglyph;

% bou/soregashi "a certain" (person, or whatever)
begintsuglyph("uni67D0",208);                                    [see page 726]
  kanji.greight.a_certain;
  tsu_render;
endtsuglyph;

% chuu/hashira "pillar"
begintsuglyph("uni67F1",241);                                    [see page 2302]
```

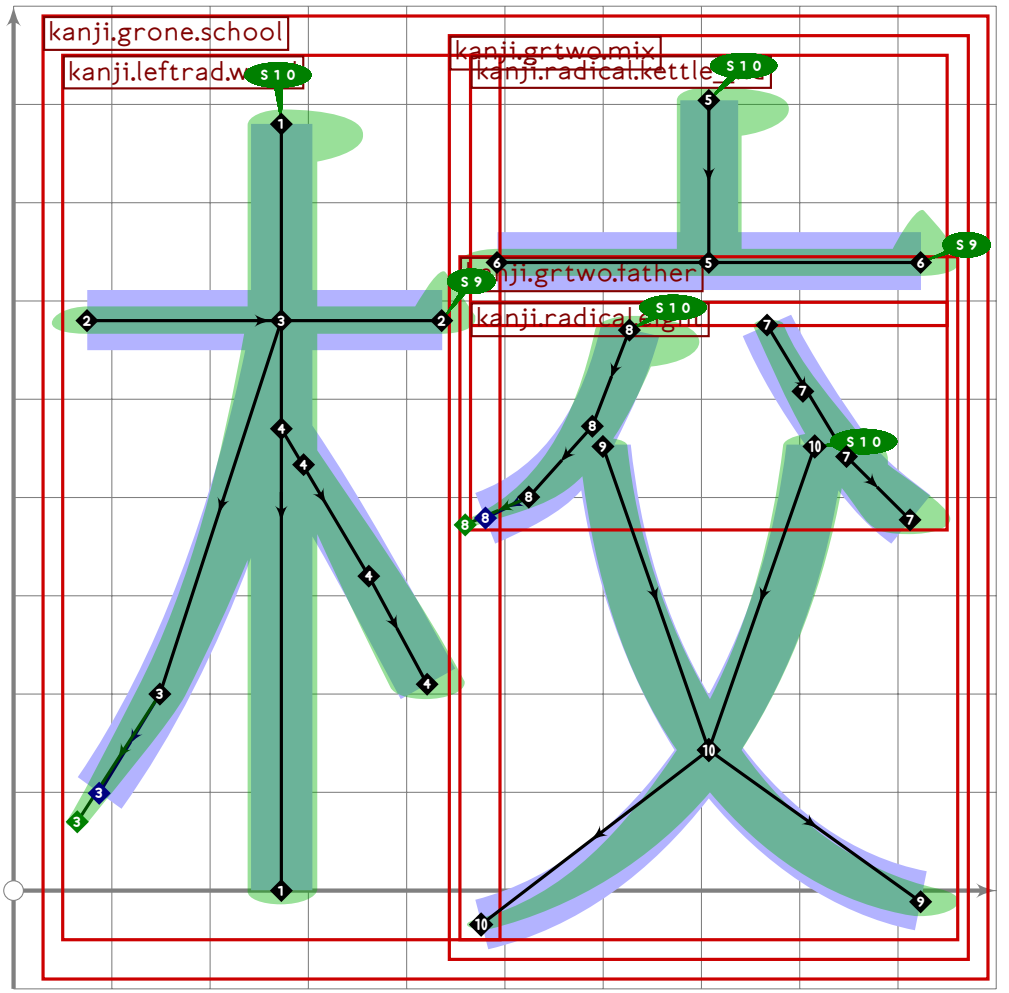
```
  kanji.grthree.pillar;
  tsu_render;
endtsuglyph;

---

endfont;

---
```

```
%
% Unicode page 68 (Kanji) for Tsukurimashou
% Copyright (C) 2011, 2012, 2013 Matthew Skala
%
[Standard copyright notice]

---

beginfont

% AUTODEPS
input buildkanji.mp;
input gradeeight.mp;
input gradeone.mp;
input gradethree.mp;
input gradetwo.mp;
input leftrad.mp;
input radical.mp;
input toprad.mp;

do_late_includes;

---
```

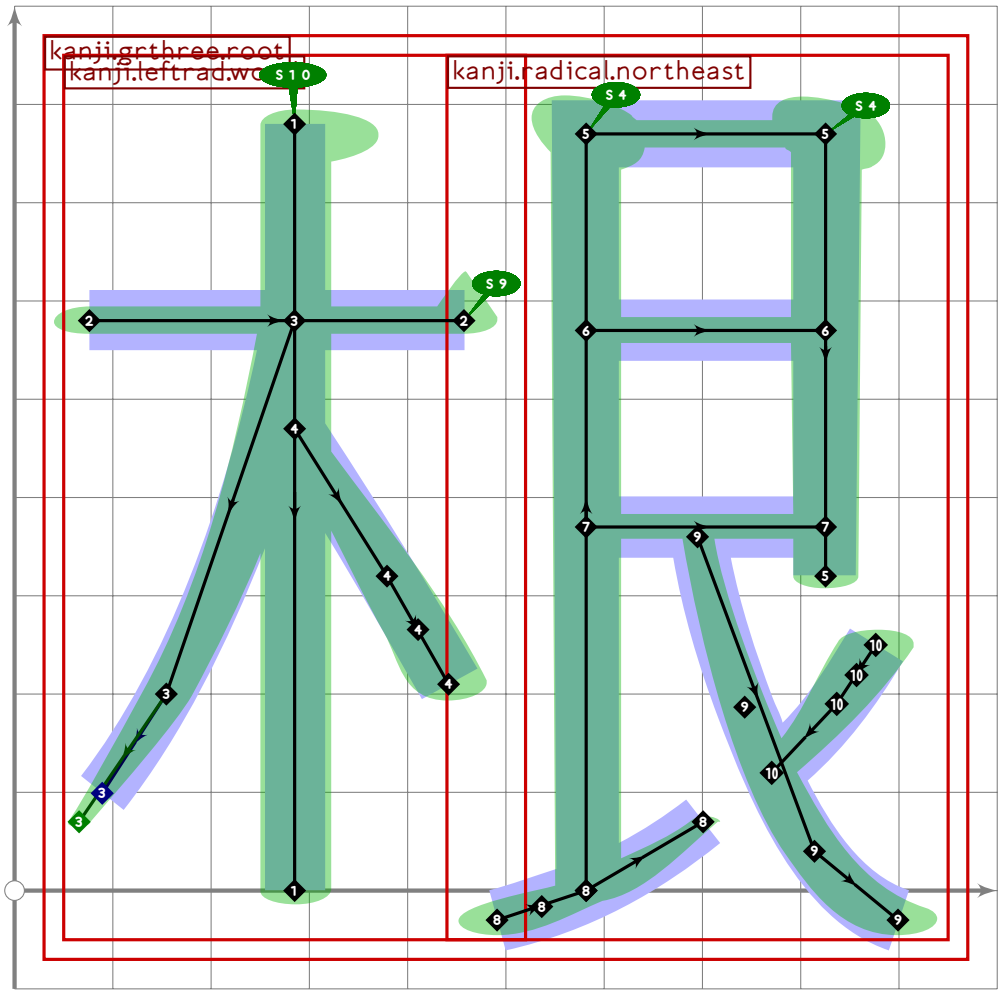



```
48
49 vardef  kanji.grone.forest =
50   push_pbox_toexpand("kanji.grone.forest");
51   build_kanji.tb(500,100)
52     (kanji.grone.wood)
53     (build_kanji.lr(480,0)
54         (kanji.leftrad.wood)
55         (kanji.grone.wood));
56   expand_pbox;
57 enddef;
```

U+6821
tsuku.uni6821

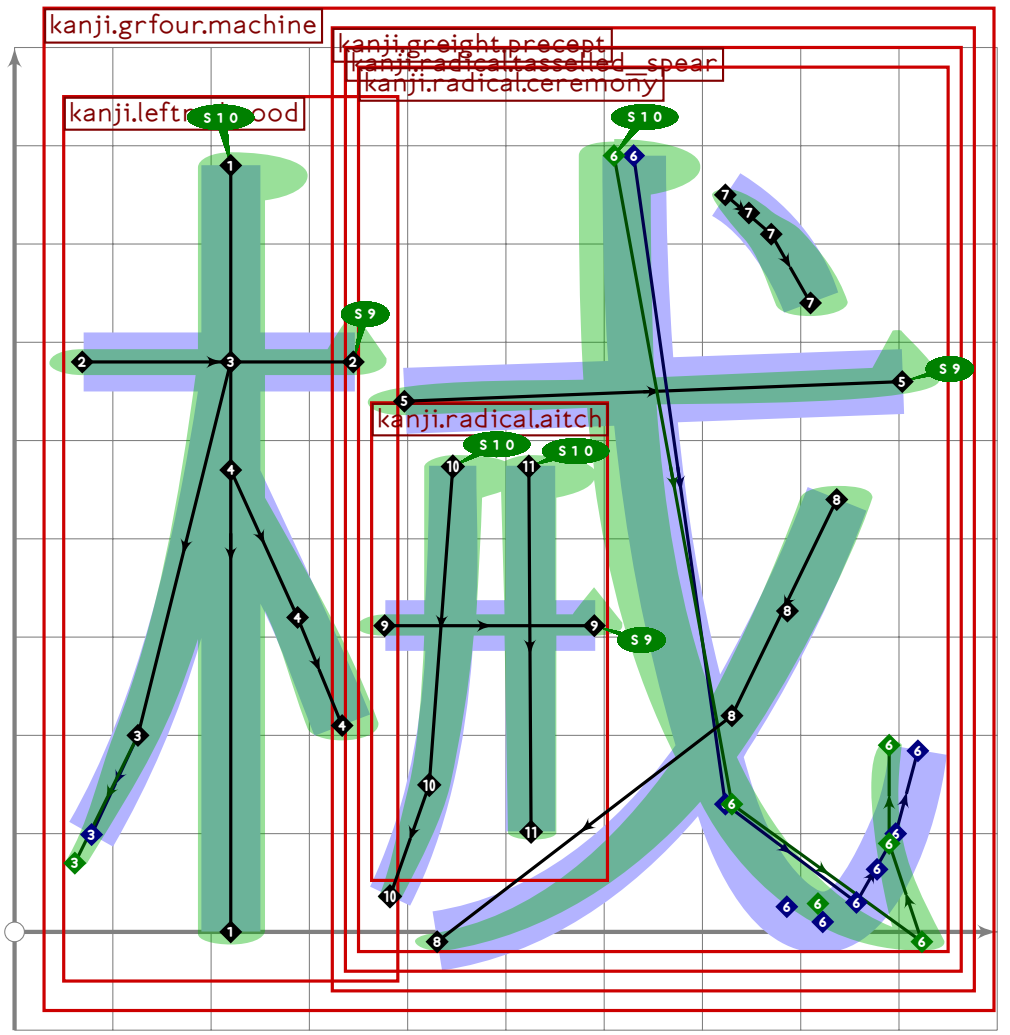



```
58
59 vardef  kanji.grone.school =
60   push_pbox_toexpand("kanji.grone.school");
61   build_kanji.lr(480,30)
62     (kanji.leftrad.wood)
63     (kanji.grtwo.mix);
64   expand_pbox;
65 enddef;
66
67 ---------------------------------------------------------------
```

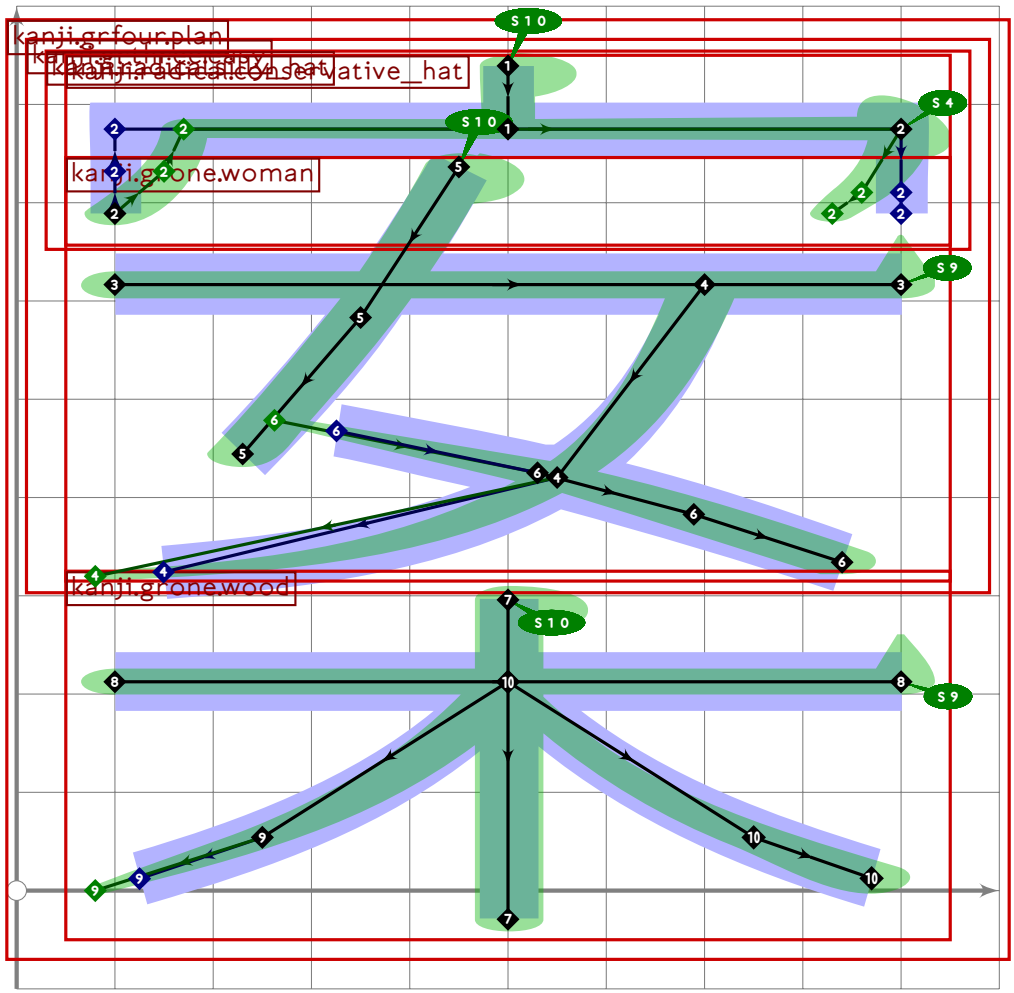



```
68
69 vardef kanji.grthree.root =
70   push_pbox_toexpand("kanji.grthree.root");
71   build_kanji.lr(480,80)
72     (kanji.leftrad.wood)
73     (kanji.radical.northeast);
74   expand_pbox;
75 enddef;
76
77 ---------------------------------------------------------------------------
```

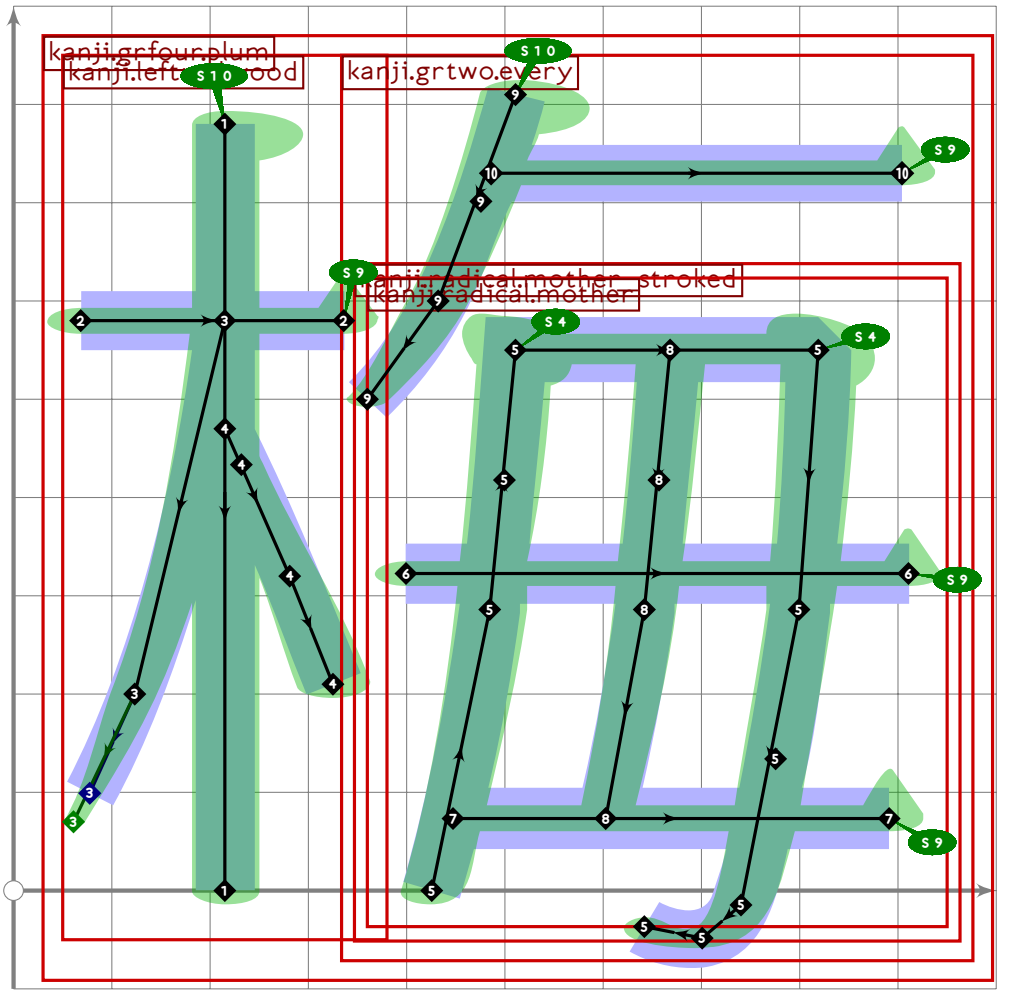
U+68B0
tsuku.uni68B0



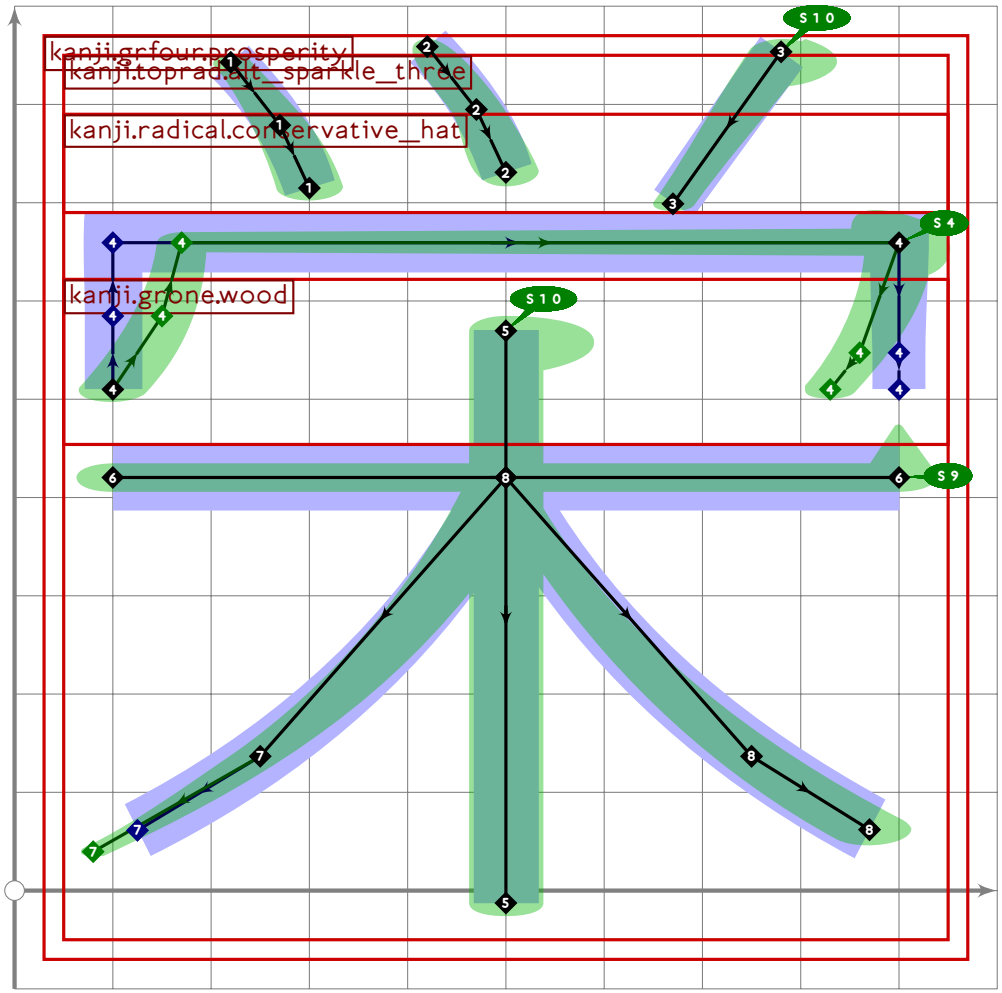

```
78
79 vardef  kanji.grfour.machine =
80   push_pbox_toexpand("kanji.grfour.machine");
81   build_kanji.lr(370,40)
82     (kanji.leftrad.wood)
83     (build_kanji.sscale(shifted  (0,30))(kanji.greight.precept));
84   expand_pbox;
85 enddef;
```




```
86
87 vardef  kanji.grfour.plan =
88   push_pbox_toexpand("kanji.grfour.plan");
89   build_kanji.tb(320,10)
90     (kanji.grthree.easy)
91     (kanji.grone.wood);
92   expand_pbox;
93 enddef;
```



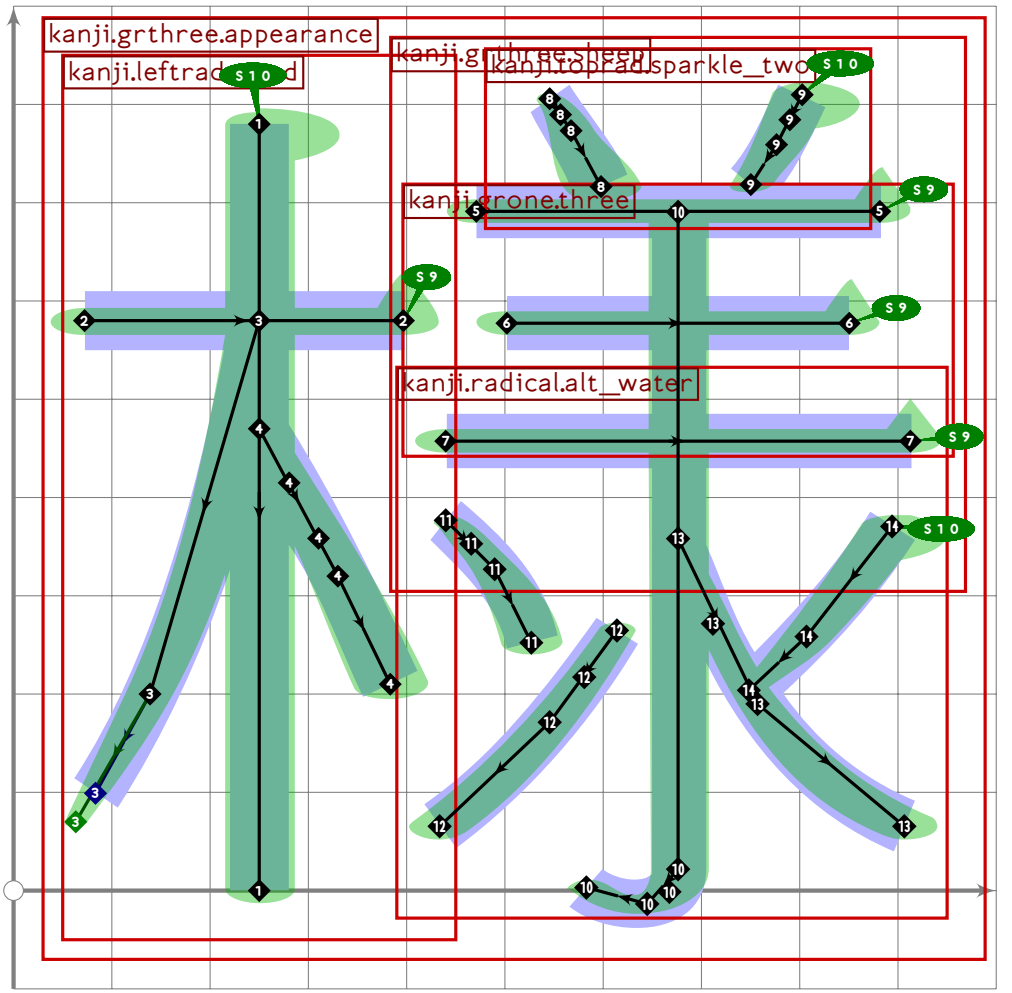

```
94
95 vardef  kanji.grfour.plum =
96   push_pbox_toexpand("kanji.grfour.plum");
97   build_kanji.lr(370,20)
98     (kanji.leftrad.wood)
99     (kanji.grtwo.every);
100  expand_pbox;
101 enddef;
```



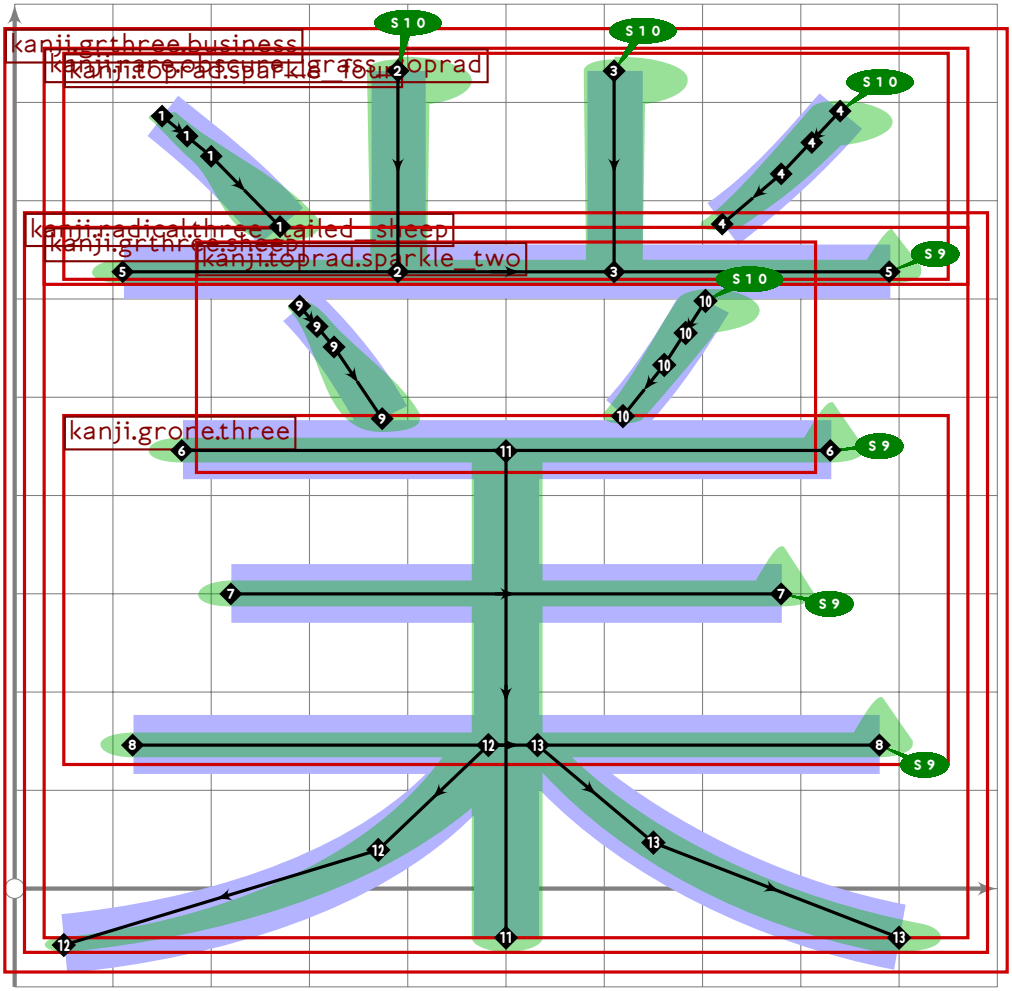

```
102
103 vardef kanji.grfour.prosperity =
104   push_pbox_toexpand("kanji.grfour.prosperity");
105   build_kanji.tb(740,100)
106     (kanji.toprad.alt_sparkle_three)
107     (build_kanji.tb(580,180)
108         (kanji.radical.conservative_hat)
109         (kanji.grone.wood));
110   expand_pbox;
111 enddef;
112
113 ---------------------------------------------------------------------
114
115 % ei/saka "prosperity"
116 begintsuglyph("uni6804",4);                          [see page 2325]
117   kanji.grfour.prosperity;
118   tsu_render;
119 endtsuglyph;
120
121 % kou "school"
122 begintsuglyph("uni6821",33);                         [see page 2320]
```

```
  kanji.grone.school;
  tsu_render;
endtsuglyph;

% kon/ne "root"
begintsuglyph("uni6839",57);                                    [see page 2321]
  kanji.grthree.root;
  tsu_render;
endtsuglyph;

% an/tsukue "plan"
begintsuglyph("uni6848",72);                                    [see page 2323]
  kanji.grfour.plan;
  tsu_render;
endtsuglyph;

% bai/ume "plum"
begintsuglyph("uni6885",133);                                   [see page 2324]
  kanji.grfour.plum;
  tsu_render;
endtsuglyph;

% kai/kase "machine"
begintsuglyph("uni68B0",176);                                   [see page 2322]
  kanji.grfour.machine;
  tsu_render;
endtsuglyph;

% shin/mori "forest"
begintsuglyph("uni68EE",238);                                   [see page 2319]
  kanji.grone.forest;
  tsu_render;
endtsuglyph;

---

endfont;

---
```

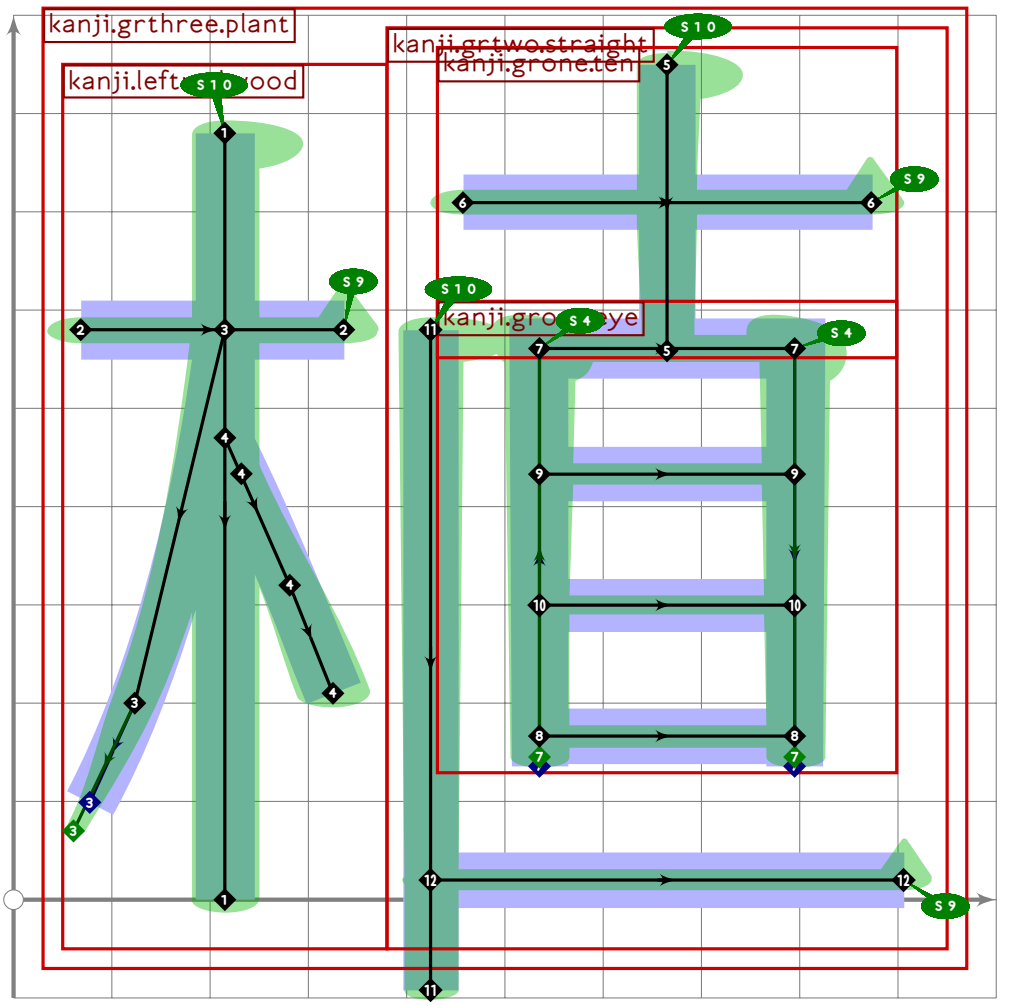
```
%
% Unicode page 69 (Kanji) for Tsukurimashou
% Copyright (C) 2011, 2012 Matthew Skala
%
[Standard copyright notice]

---

beginfont

% AUTODEPS
input buildkanji.mp;
input gradeone.mp;
input gradesix.mp;
input gradethree.mp;
input gradetwo.mp;
input leftrad.mp;
input radical.mp;
input rare.mp;
input toprad.mp;

do_late_includes;

---

```




```
% this is "sama," the honorific, also "you" as in "you ni"
vardef kanji.grthree.appearance =
  push_pbox_toexpand("kanji.grthree.appearance");
  build_kanji.lr(420,60)
    (kanji.leftrad.wood)
    (build_kanji.level(build_kanji.sscale(yscaled 0.95)(
       build_kanji.tb(420,240)
         (build_kanji.sscale(shifted (10,0))(kanji.grthree.sheep))
         (kanji.radical.alt_water);
       replace_strokep(-4)
         ((point 0 of get_strokep(-5))--subpath (1,infinity) of oldp);
       set_boserif(-4,0,whatever);
       set_bosize(-5,0))));
  expand_pbox;
enddef;
```



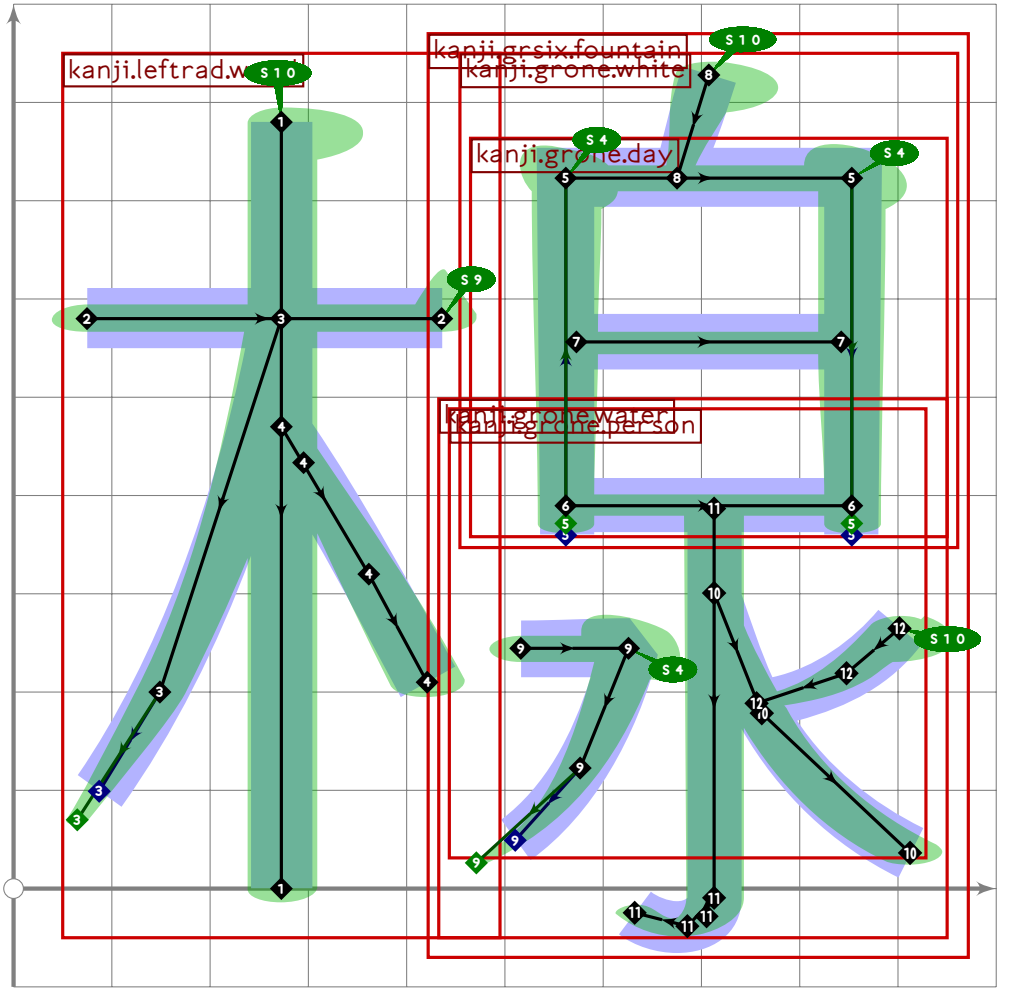

```
65
66 vardef kanji.grthree.business =
67   push_pbox_toexpand("kanji.grthree.business");
68   build_kanji.tb(620,0)
69     (kanji.rare.obscure_grass_toprad)
70     (kanji.radical.three_tailed_sheep);
71   expand_pbox;
72 enddef;
```




```
73
74 vardef kanji.grthree.plant =
75   push_pbox_toexpand("kanji.grthree.plant");
76   build_kanji.lr(380,0)
77     (kanji.leftrad.wood)
78     (kanji.grtwo.straight);
79   expand_pbox;
80 enddef;
81
82 ---------------------------------------------------------------------------
83
84 vardef kanji.radical.three_tailed_sheep =
85   push_pbox_toexpand("kanji.radical.three_tailed_sheep");
86   kanji.grthree.sheep;
87   push_stroke(
88     (510,615){down}..(500,260)..(370,70)..{curl 0.5}(50,-60),
89     (1.6,1.6)--(1.4,1.4)--(1.1,1.1));
90   push_stroke(((get_strokep(0) intersectionpoint get_strokep(-4))+(50,0))..
91       (650,80)..(900,-50),
92     (1.1,1.1)--(1.4,1.4)--(1.7,1.7));
93   replace_strokep(-1)(subpath
```

```
    (xpart (oldp intersectiontimes get_strokep(-5)),infinity) of oldp);
  expand_pbox;
enddef;

---

% shoku/u "plant"
begintsuglyph("uni690D",13);                                    [see page 2330]
  kanji.grthree.plant;
  tsu_render;
endtsuglyph;

% kyou/waza "business"
begintsuglyph("uni696D",109);                                   [see page 2329]
  kanji.grthree.business;
  tsu_render;
endtsuglyph;

% gaku/tano "music" or "fun"
begintsuglyph("uni697D",125);                                    [see page 504]
  kanji.grtwo.fun;
  tsu_render;
endtsuglyph;
```

U+697E
tsuku.uni697E



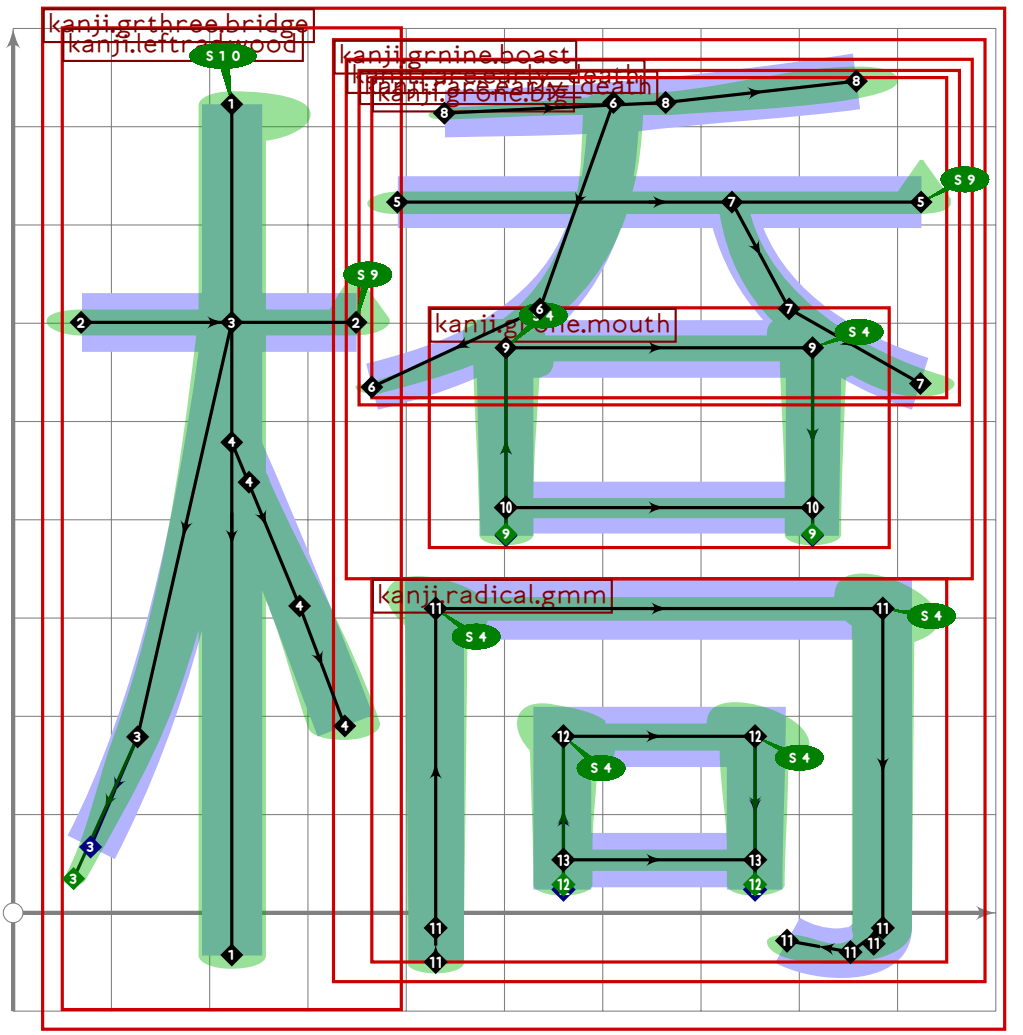

```
% hanzou "container for pouring water"
begintsuglyph("uni697E",126);
  build_kanji.lr(480,30)
    (kanji.leftrad.wood)
    (kanji.grsix.fountain);
  tsu_render;
endtsuglyph;

% you/sama "honorific suffix with difficult literal meaning"
begintsuglyph("uni69D8",216);
  kanji.grthree.appearance;
  tsu_render;
endtsuglyph;

endfont;
```

[see page 2328]

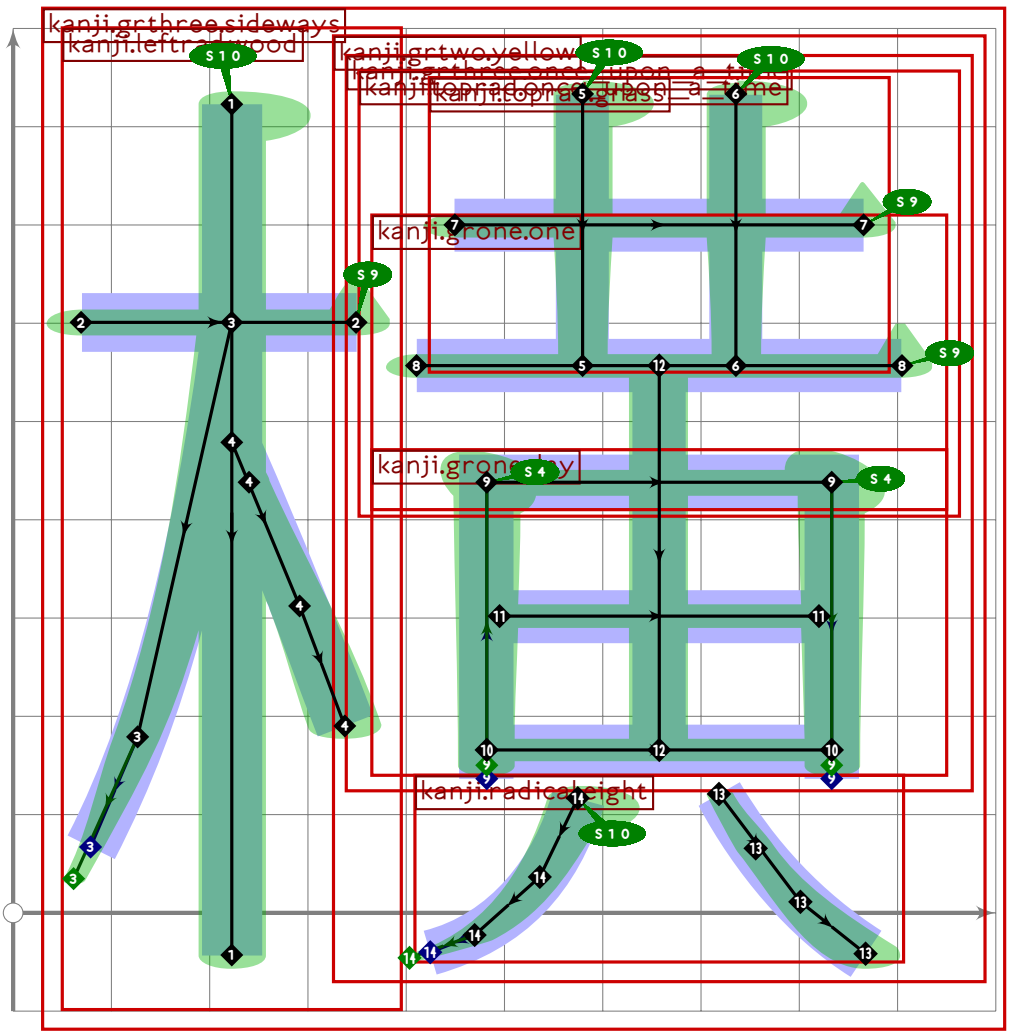
tsuku-6a.mp


```
%
% Unicode page 6A (Kanji) for Tsukurimashou
% Copyright (C) 2011, 2012, 2013 Matthew Skala
%
[Standard copyright notice]

---

beginfont

% AUTODEPS
input buildkanji.mp;
input gradeeight.mp;
input gradefive.mp;
input gradefour.mp;
input gradenine.mp;
input gradeone.mp;
input gradethree.mp;
input gradetwo.mp;
input leftrad.mp;
input radical.mp;
input rare.mp;
input toprad.mp;

do_late_includes;

---
```

U+6A4B
tsuku.uni6A4B

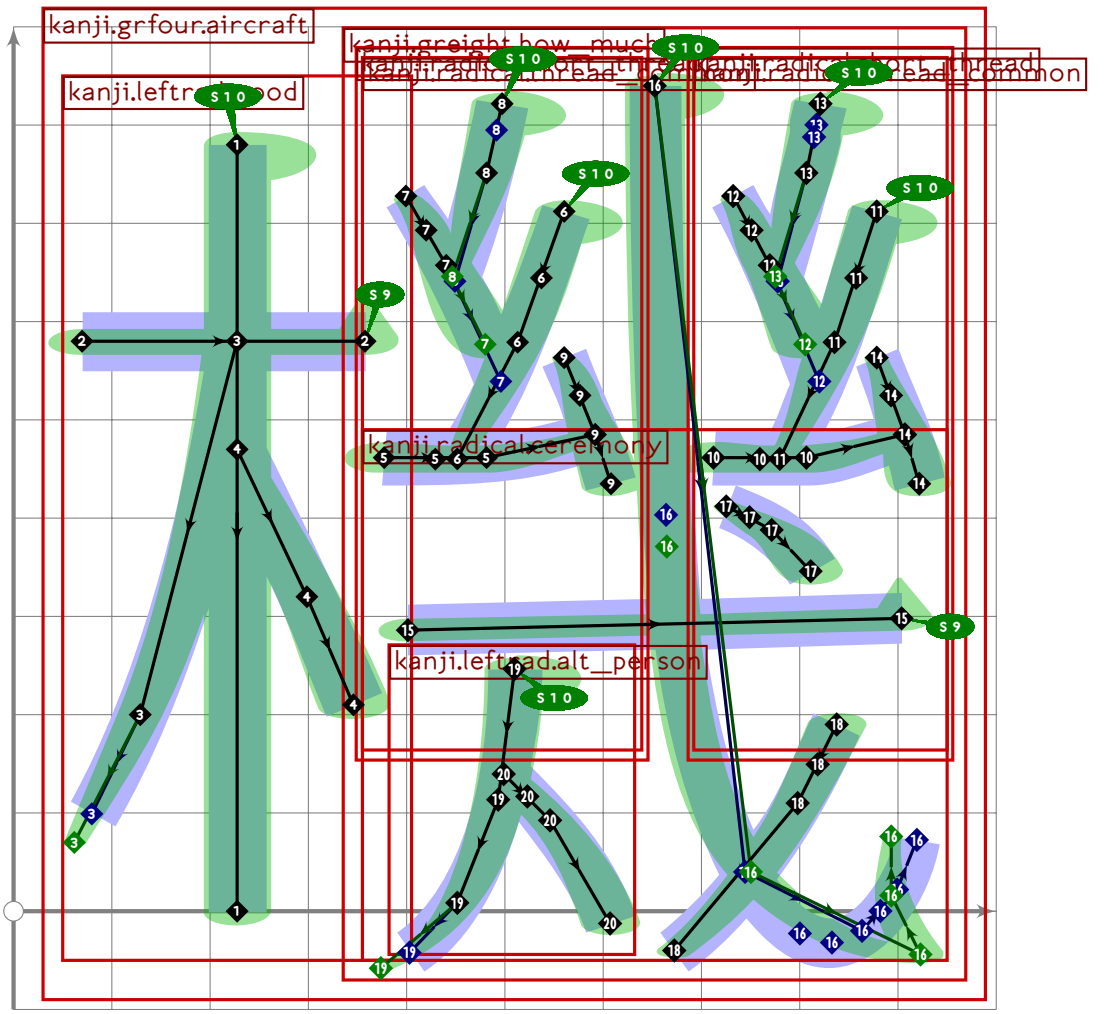



```
52
53 vardef  kanji.grthree.bridge =
54   push_pbox_toexpand("kanji.grthree.bridge");
55   build_kanji.lr(380,30)
56     (build_kanji.sscale(yscaled  1.11)(kanji.leftrad.wood))
57     (kanji.grnine.boast);
58   expand_pbox;
59 enddef;
```

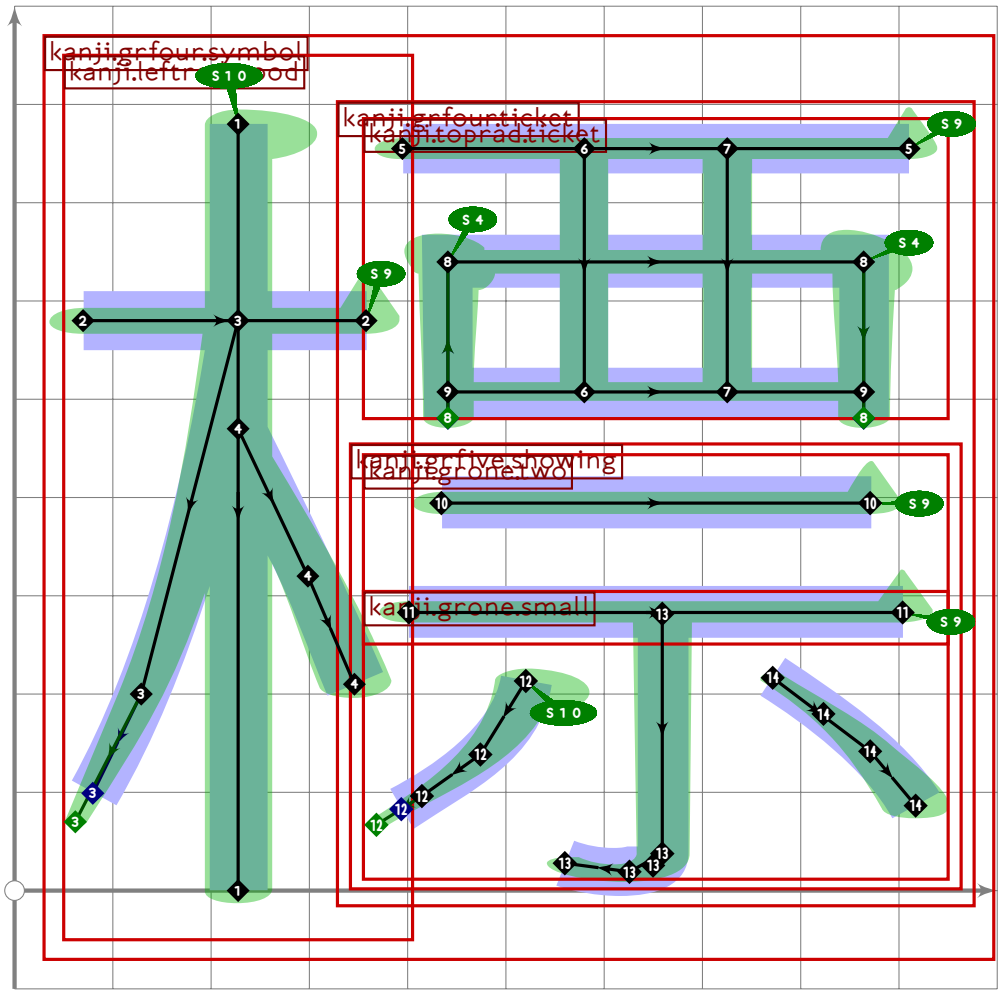



```
60
61 vardef  kanji.grthree.sideways =
62   push_pbox_toexpand("kanji.grthree.sideways");
63   build_kanji.lr(380,30)
64     (build_kanji.sscale(yscaled  1.11)(kanji.leftrad.wood))
65     (kanji.grtwo.yellow);
66   expand_pbox;
67 enddef;
68
69 ---------------------------------------------------------------
```

U+6A5F
tsuku.uni6A5F




```
70
71 vardef  kanji.grfour.aircraft =
72   push_pbox_toexpand("kanji.grfour.aircraft");
73   build_kanji.lr(380,50)
74     (kanji.leftrad.wood)
75     (kanji.greight.how_much);
76   expand_pbox;
77 enddef;
```



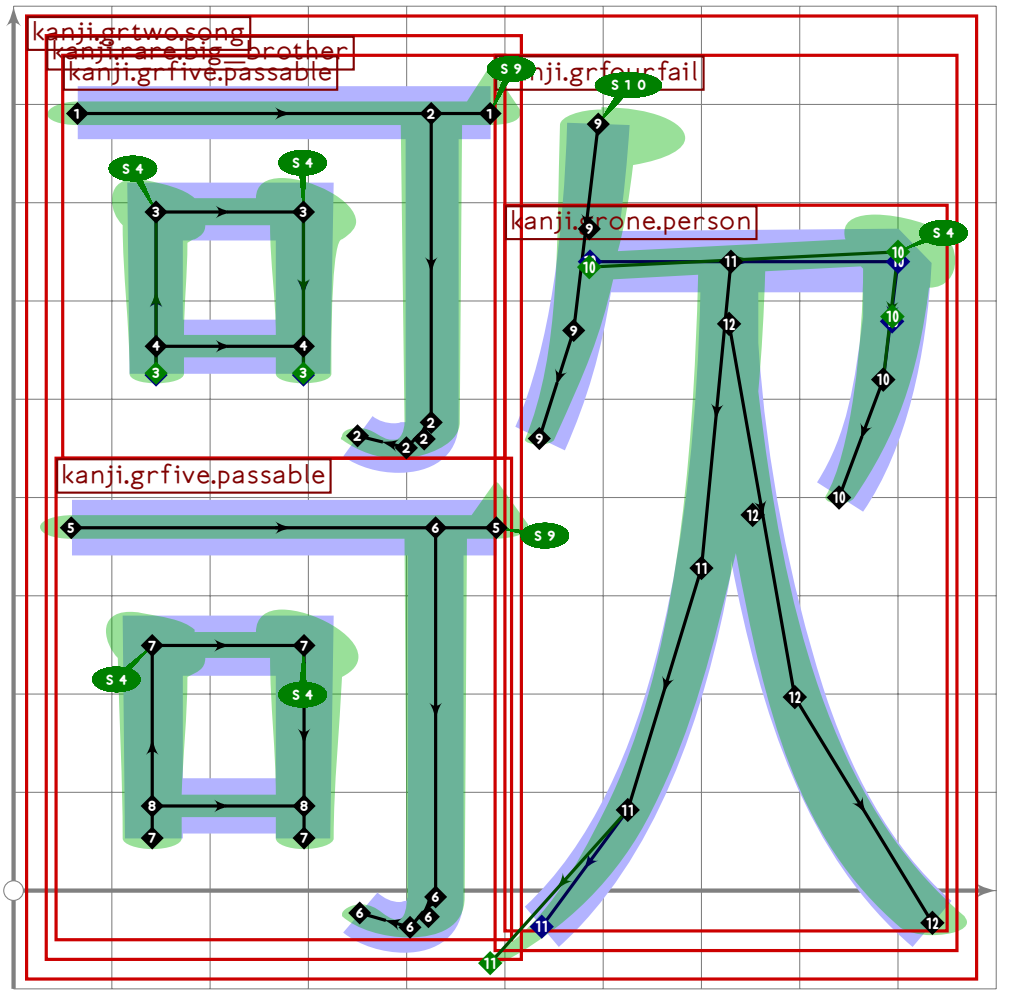

```
78
79 vardef kanji.grfour.symbol =
80   push_pbox_toexpand("kanji.grfour.symbol");
81   build_kanji.lr(380,50)
82     (kanji.leftrad.wood)
83     (build_kanji.sscale(yscaled 0.86)(kanji.grfour.ticket));
84   expand_pbox;
85 enddef;
86
87 ---------------------------------------------------------------------
88
89 % hyou/shirobe "symbol"
90 begintsuglyph("uni6A19",25);                              [see page 2337]
91   kanji.grfour.symbol;
92   tsu_render;
93 endtsuglyph;
94
95 % ou/yoku "sideways"
96 begintsuglyph("uni6A2A",42);                              [see page 2335]
97   kanji.grthree.sideways;
98   tsu_render;
```

```
endtsuglyph;

% kyou/hashi "bridge"
begintsuglyph("uni6A4B",75);                                    [see page 2334]
  kanji.grthree.bridge;
  tsu_render;
endtsuglyph;

% ki/hata "aircraft"
begintsuglyph("uni6A5F",95);                                    [see page 2336]
  kanji.grfour.aircraft;
  tsu_render;
endtsuglyph;

---

endfont;

---
```

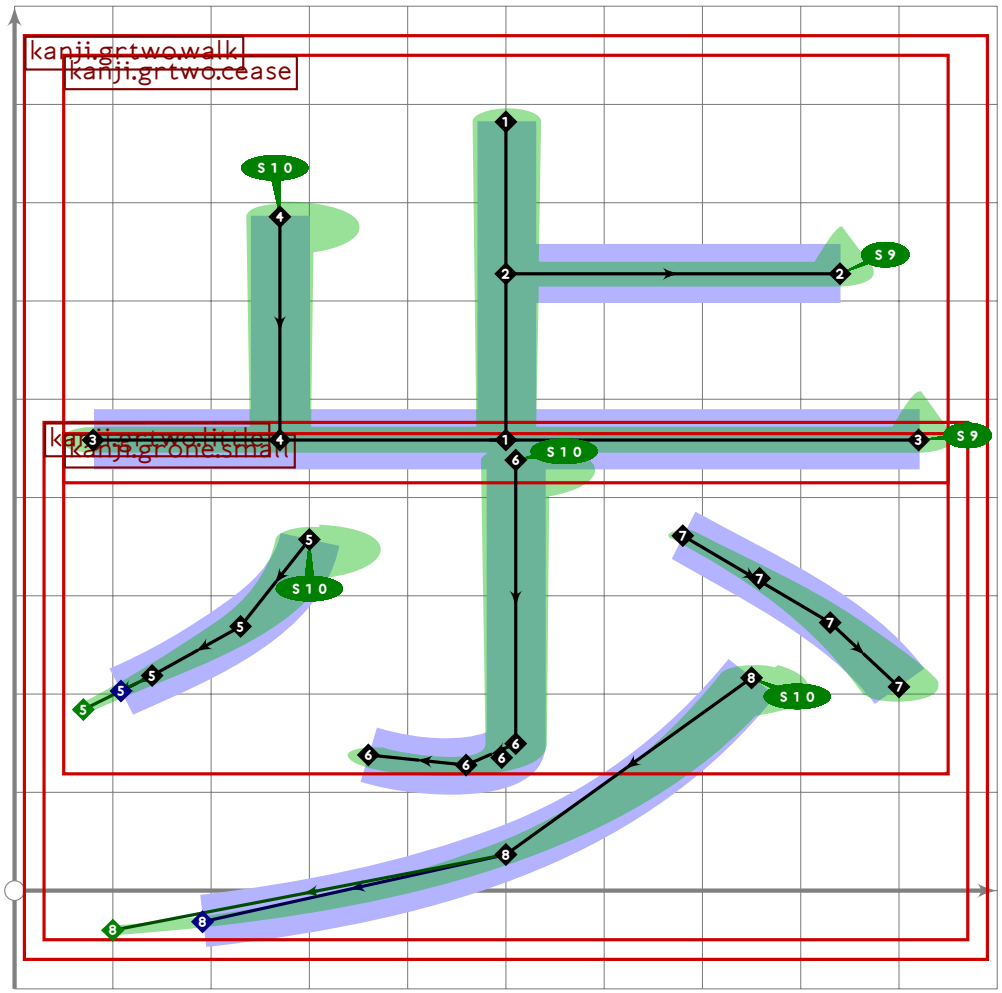
tsuku-6b.mp


```
%
% Unicode page 6B (Kanji) for Tsukurimashou
% Copyright (C) 2011, 2012, 2013 Matthew Skala
%
[Standard copyright notice]

---

beginfont

% AUTODEPS
input buildkanji.mp;
input gradeeight.mp;
input gradefive.mp;
input gradefour.mp;
input gradeone.mp;
input gradethree.mp;
input gradetwo.mp;
input leftrad.mp;
input radical.mp;
input rare.mp;
input toprad.mp;

do_late_includes;

---
```

U+6B4C
tsuku.uni6B4C

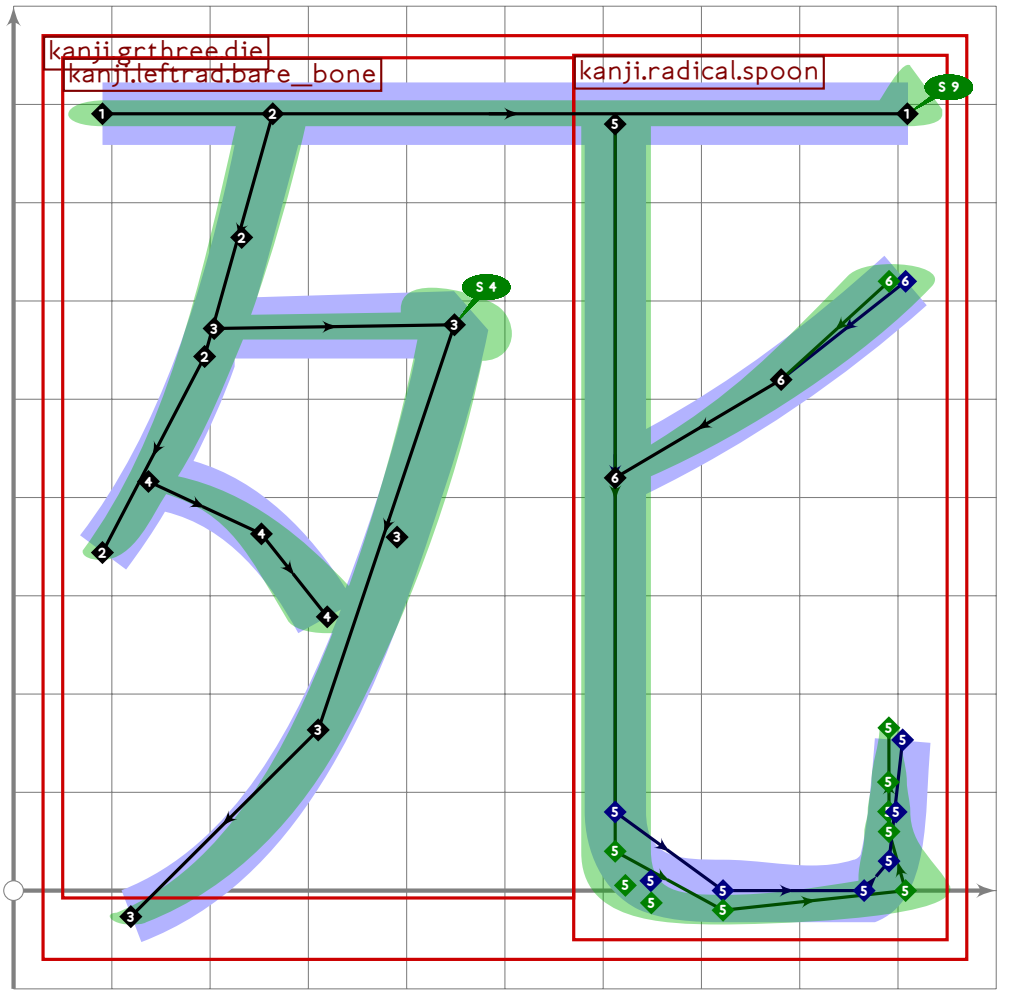



```
51
52 vardef kanji.grtwo.song =
53   push_pbox_toexpand("kanji.grtwo.song");
54   build_kanji.lr(500,0)
55     (kanji.rare.big_brother)
56     (kanji.grfour.fail);
57   expand_pbox;
58 enddef;
```

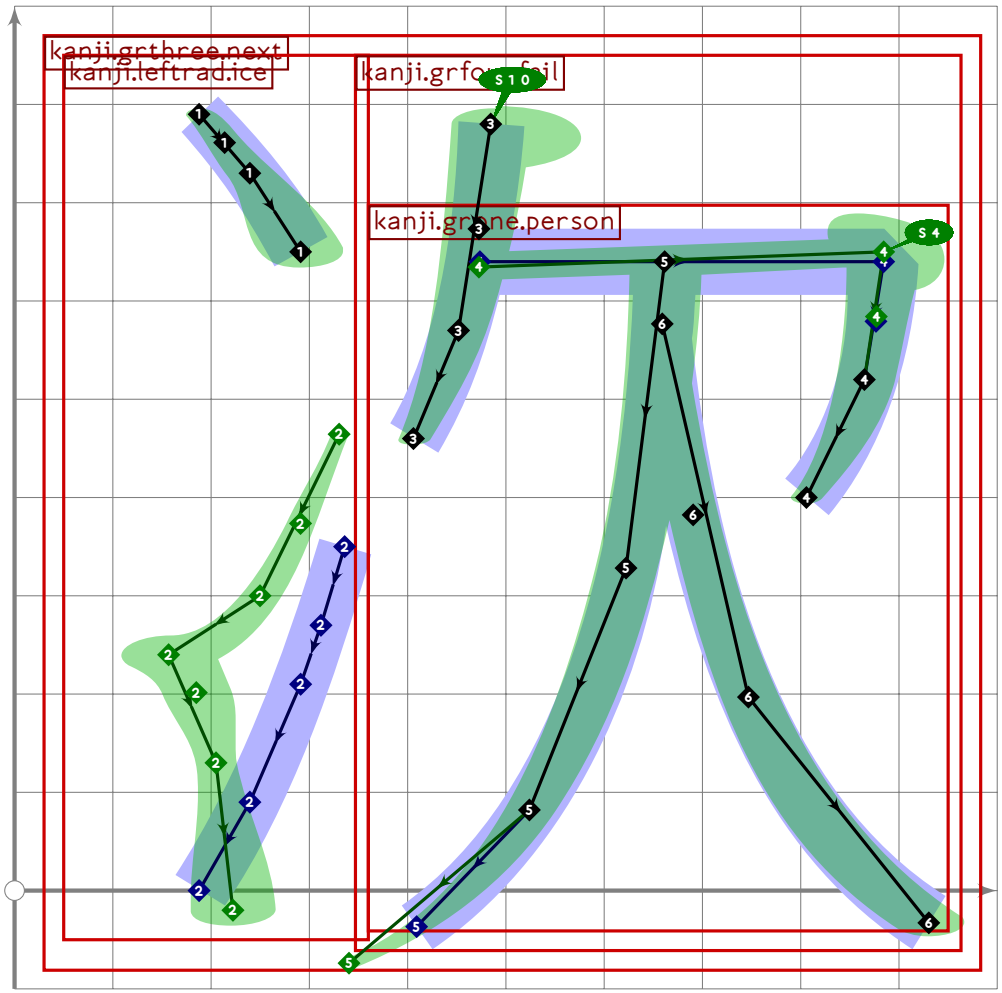



```
vardef kanji.grtwo.walk =
  push_pbox_toexpand("kanji.grtwo.walk");
  build_kanji.level(build_kanji.tb(440,50)
    (kanji.grtwo.cease)
    (kanji.grtwo.little));
  expand_pbox;
enddef;
```

U+6B7B
tsuku.uni6B7B

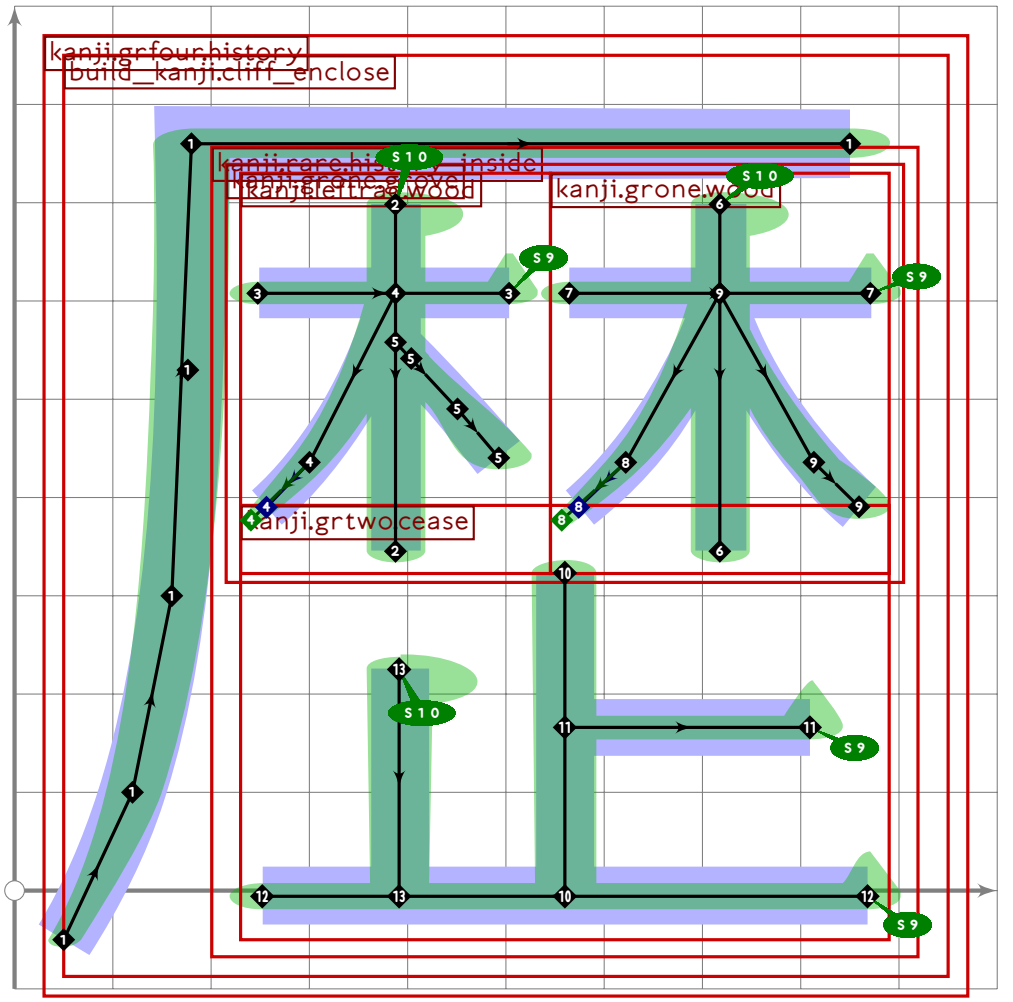



```
69
70 vardef kanji.grthree.die =
71   push_pbox_toexpand("kanji.grthree.die");
72   build_kanji.level(build_kanji.lr(570,0)
73     (tsu_xform(identity shifted (0,-800) yscaled 0.95 shifted (0,800))
74       (kanji.leftrad.bare_bone))
75     (kanji.radical.spoon));
76   set_boserif(-1,0,whatever);
77   set_boserif(0,0,whatever);
78   replace_strokep(-5)((point 0 of oldp)-
79     (1000-xpart point 0 of oldp,ypart point 1 of oldp));
80   expand_pbox;
81 enddef;
```

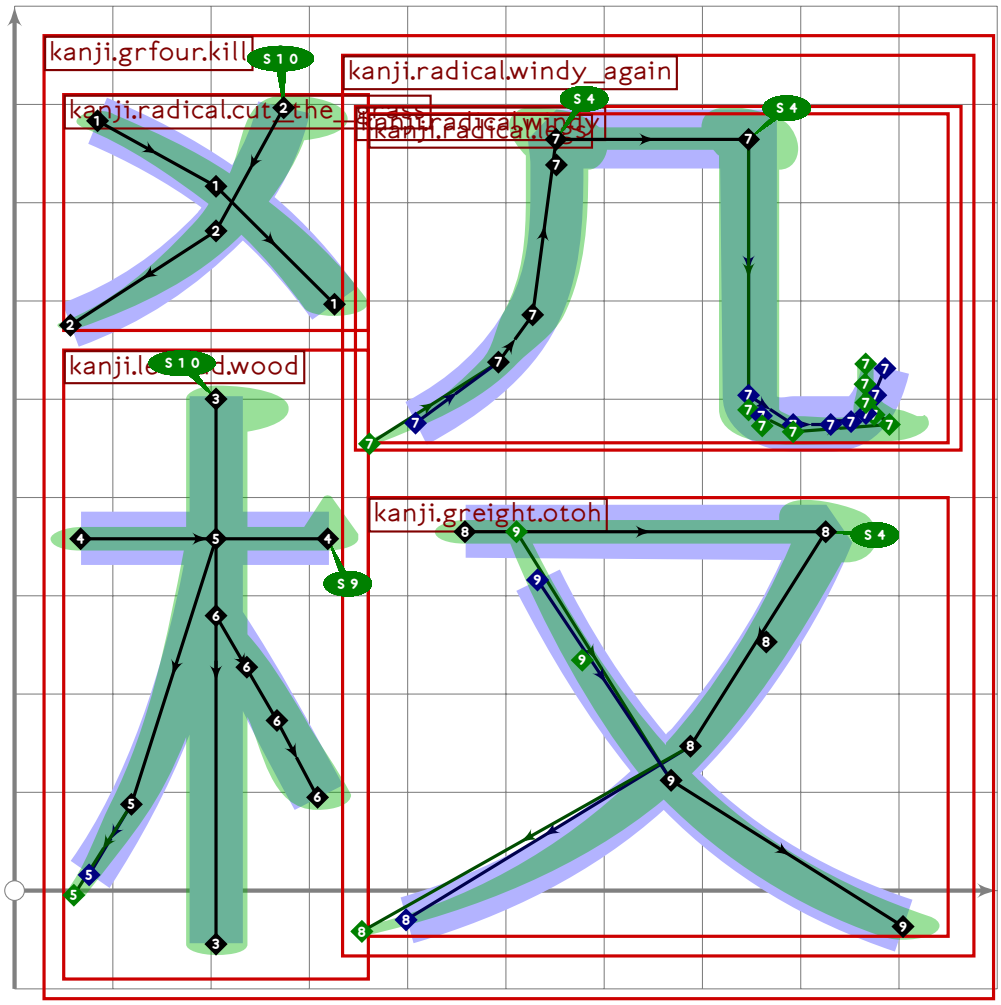



```
vardef kanji.grthree.next =
  push_pbox_toexpand("kanji.grthree.next");
  build_kanji.lr(360,0)
    (kanji.leftrad.ice)
    (kanji.grfour.fail);
  expand_pbox;
enddef;
```

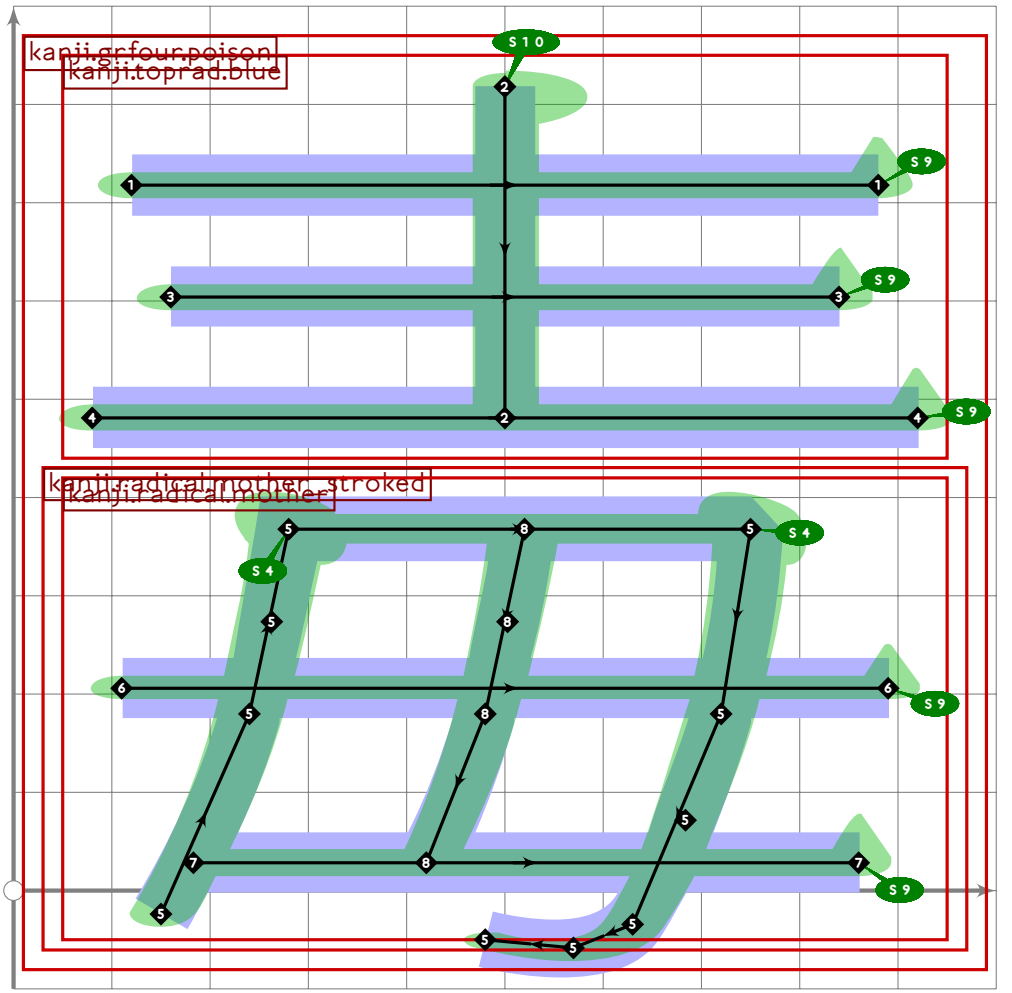
U+6B74
tsuku.uni6B74




```
92
93 vardef kanji.grfour.history =
94   push_pbox_toexpand("kanji.grfour.history");
95   build_kanji.cliff_enclose(kanji.rare.history_inside);
96   expand_pbox;
97 enddef;
```

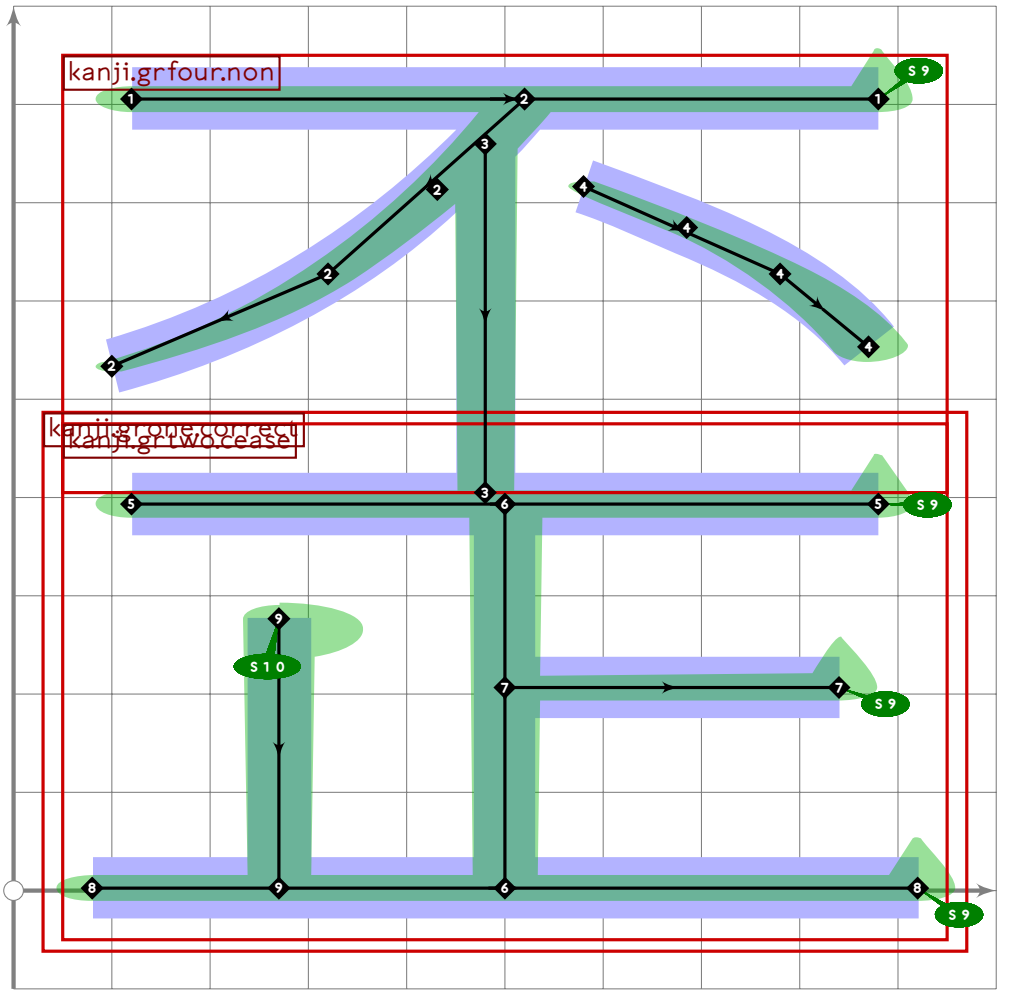



```
98
99 vardef  kanji.grfour.kill =
100   push_pbox_toexpand("kanji.grfour.kill");
101   build_kanji.level(build_kanji.lr(360,0)
102     (build_kanji.sscale(shifted  (0,-40))(build_kanji.tb(600,-20)
103         (kanji.radical.cut_the_grass)
104         (kanji.leftrad.wood)))
105     (kanji.radical.windy_again));
106   expand_pbox;
107 enddef;
```




```
108
109 vardef kanji.grfour.poison =
110   push_pbox_toexpand("kanji.grfour.poison");
111   build_kanji.level(build_kanji.tb(430,-20)
112     (kanji.toprad.blue)
113     (kanji.radical.mother_stroked));
114   expand_pbox;
115 enddef;
116
117 ---------------------------------------------------------------------
118
119 % ketsu/ka/akubi "fail" or "yawn"
120 begintsuglyph("uni6B20",32);                                [see page 613]
121   kanji.grfour.fail;
122   tsu_render;
123 endtsuglyph;
124
125 % ji/tsugi "next"
126 begintsuglyph("uni6B21",33);                                [see page 2343]
127   kanji.grthree.next;
128   tsu_render;
```

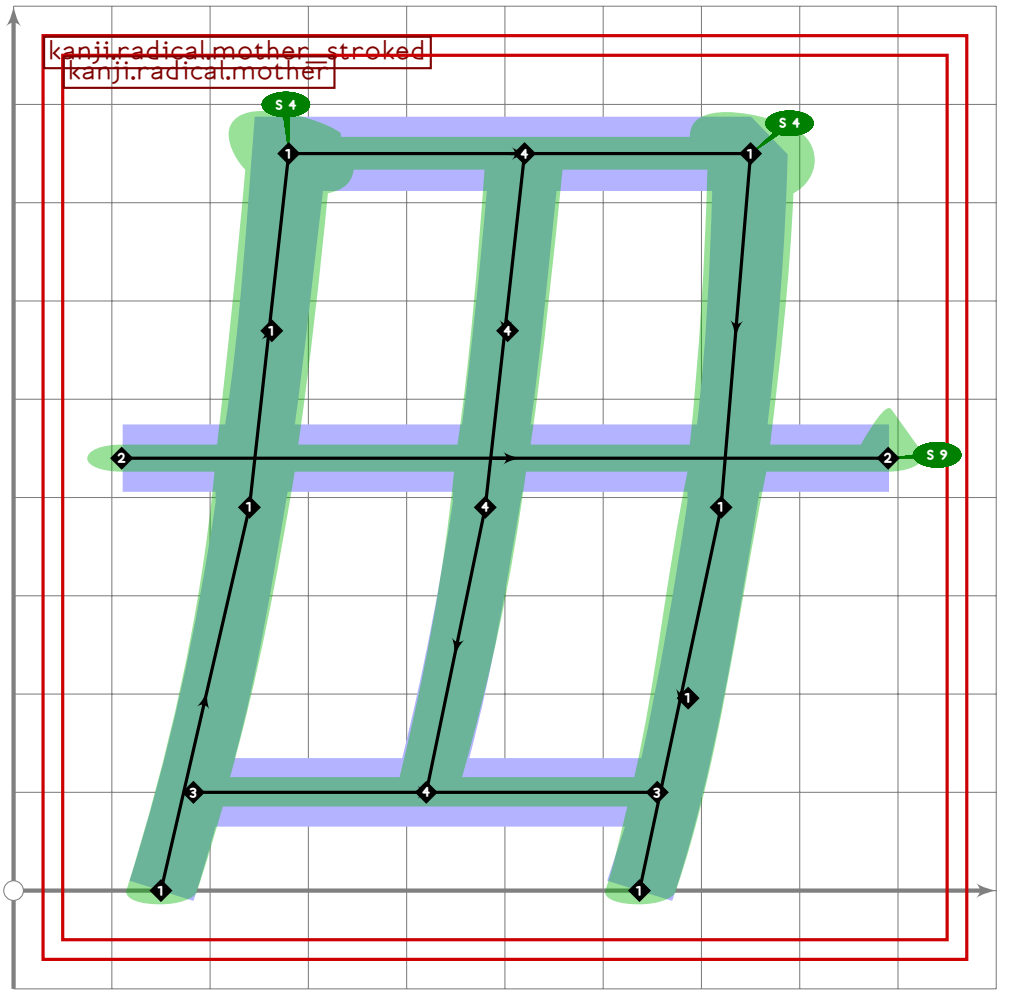
```
endtsuglyph;

% ka/uta "song"
begintsuglyph("uni6B4C",76);                                    [see page 2340]
  kanji.grtwo.song;
  tsu_render;
endtsuglyph;

% shi/toma "stop"
begintsuglyph("uni6B62",98);                                    [see page 486]
  kanji.grtwo.cease;
  tsu_render;
endtsuglyph;

% sei/tada/machi "correct"
begintsuglyph("uni6B63",99);                                    [see page 422]
  kanji.grone.correct;
  tsu_render;
endtsuglyph;

% ho/aruku "walk"
begintsuglyph("uni6B69",105);                                   [see page 2341]
  kanji.grtwo.walk;
  tsu_render;
endtsuglyph;
```




```
% extra: wai/iga "warp"
begintsuglyph("uni6B6A",106);
  build_kanji.tb(440,70)
    (kanji.grfour.non)
    (kanji.grone.correct);
  tsu_render;
endtsuglyph;

% shi/ha "tooth"
begintsuglyph("uni6B6F",111);                                  [see page 595]
  kanji.grthree.tooth;
  tsu_render;
endtsuglyph;

% reki "history"
begintsuglyph("uni6B74",116);                                  [see page 620]
  kanji.grfour.history;
  tsu_render;
endtsuglyph;

% gatsu "bare bone radical"
```

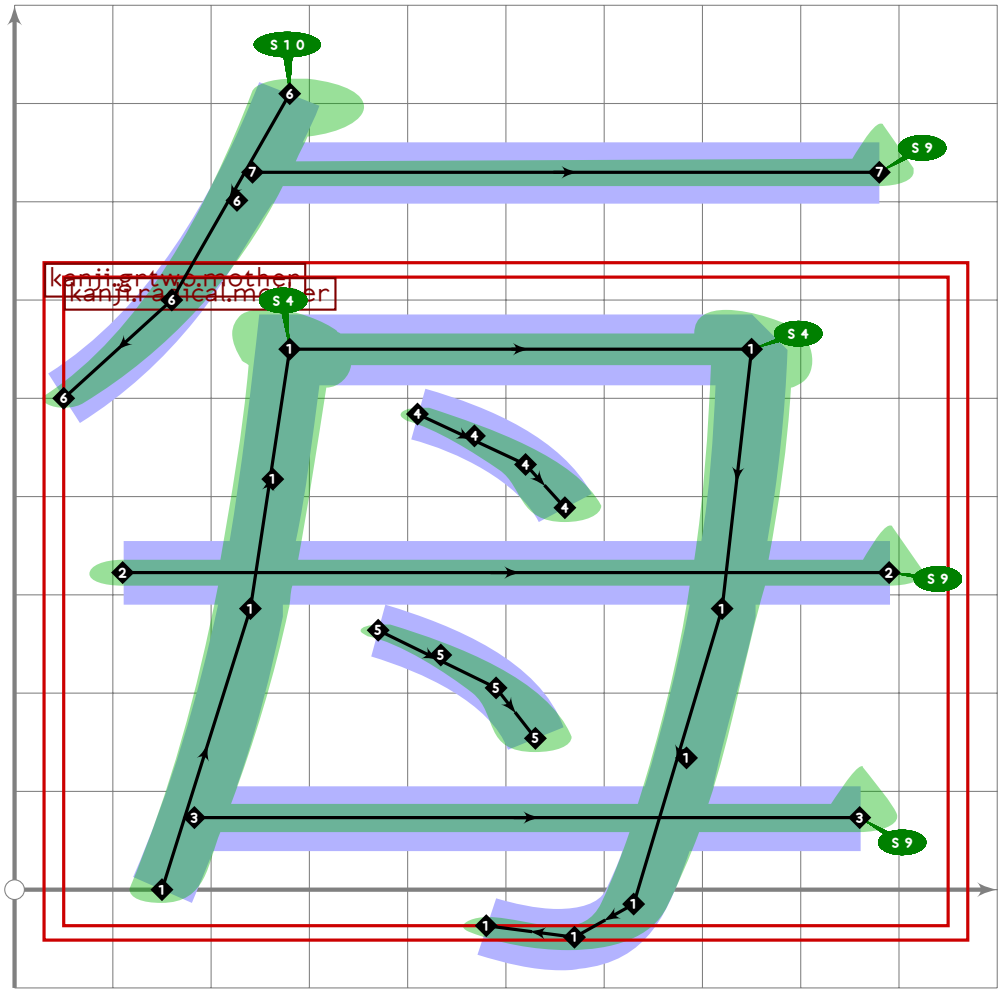
```
begintsuglyph("uni6B79",121);                                    [see page 669]
  kanji.leftrad.bare_bone;
  tsu_render;
endtsuglyph;

% shi "die"
begintsuglyph("uni6B7B",123);                                    [see page 2342]
  kanji.grthree.die;
  tsu_render;
endtsuglyph;

% shu/mata "windy again radical"
begintsuglyph("uni6BB3",179);                                    [see page 713]
  kanji.radical.windy_again;
  tsu_render;
endtsuglyph;

% satsu/koro "kill"
begintsuglyph("uni6BBA",186);                                    [see page 2345]
  kanji.grfour.kill;
  tsu_render;
endtsuglyph;

% extra: mother radical, stroked version
begintsuglyph("uni6BCB",203);                                    [see page 694]
  kanji.radical.mother_stroked;
  tsu_render;
endtsuglyph;
```

U+6BCC
tsuku.uni6BCC




```
% further variation
begintsuglyph("uni6BCC",204);
  kanji.radical.mother_stroked;
  replace_strokep(-3)(subpath (0,xpart (oldp intersectiontimes
    ((500,0)--(1000,0)))) of oldp);
  replace_strokeq(-3)(subpath (0,length get_strokep(-3)) of oldq);
  replace_strokep(-1)((183,100)--(655,100));
  set_boserif(-1,1,whatever);
  tsu_render;
endtsuglyph;

% bo/haha "mother"
begintsuglyph("uni6BCD",205);                                [see page 525]
  kanji.grtwo.mother;
  tsu_render;
endtsuglyph;

% mai/goto "every"
begintsuglyph("uni6BCE",206);                                [see page 497]
  kanji.grtwo.every;
  tsu_render;
```

```
endtsuglyph;
```




```
% extra, closely related to previous
begintsuglyph("uni6BCF",207);
  tsu_xform(identity yscaled (550/750))
    (kanji.grtwo.mother);
  push_stroke((280,810)..tension 1.2..(160,600)..(50,500),
    (1.7,1.7)--(1.5,1.5)--(1.2,1.2));
  set_boserif(0,0,10);
  set_bosize(0,90);
  push_stroke((get_strokep(0) intersectionpoint ((0,730)--(1000,730)))--
      (880,730),
    (1.5,1.5)--(1.6,1.6));
  set_boserif(0,1,9);
  set_bosize(0,90);
  tsu_render;
endtsuglyph;

% doku "poison"
begintsuglyph("uni6BD2",210);
  kanji.grfour.poison;
```

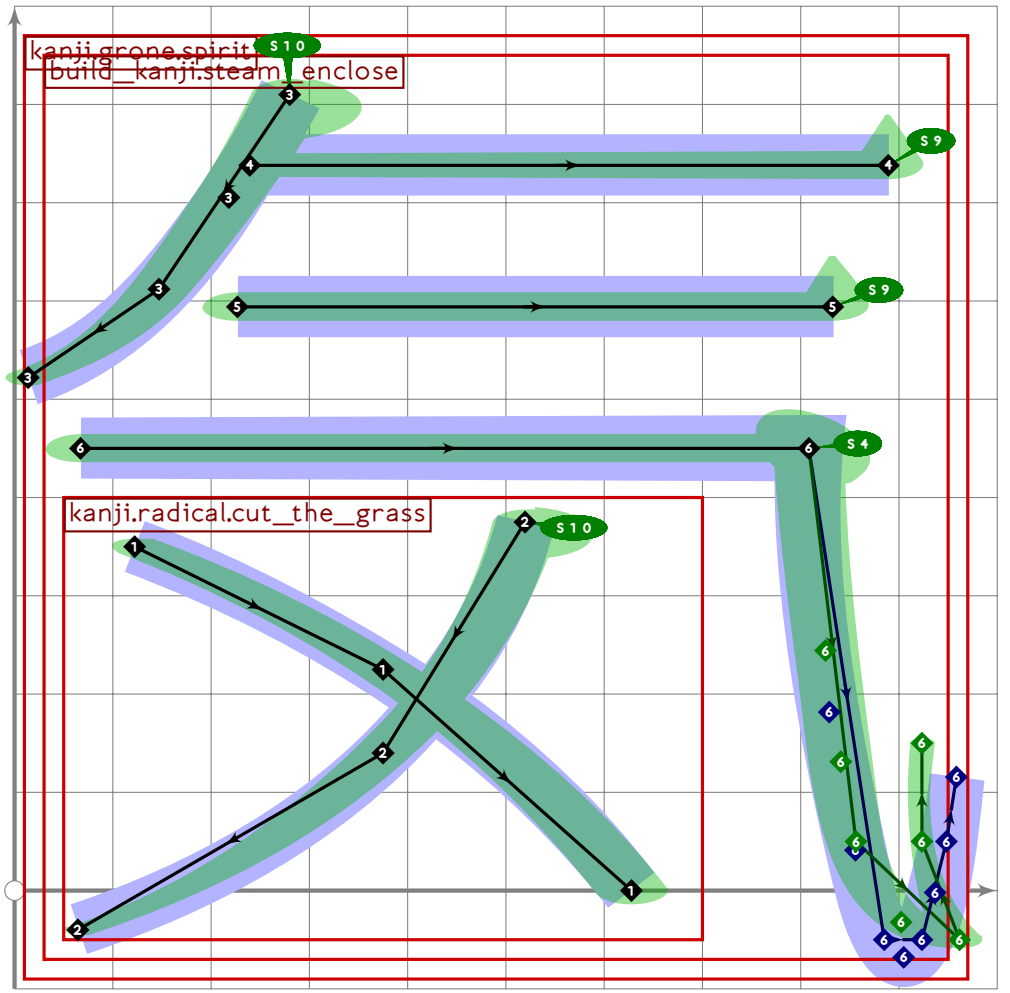
[see page 2346]

```
  tsu_render;
endtsuglyph;

% hi/kura "compare"
begintsuglyph("uni6BD4",212);                                  [see page 635]
  kanji.grfive.compare;
  tsu_render;
endtsuglyph;

% mou/ke "hair"
begintsuglyph("uni6BDB",219);                                  [see page 507]
  kanji.grtwo.hair;
  tsu_render;
endtsuglyph;

---

endfont;

---
```

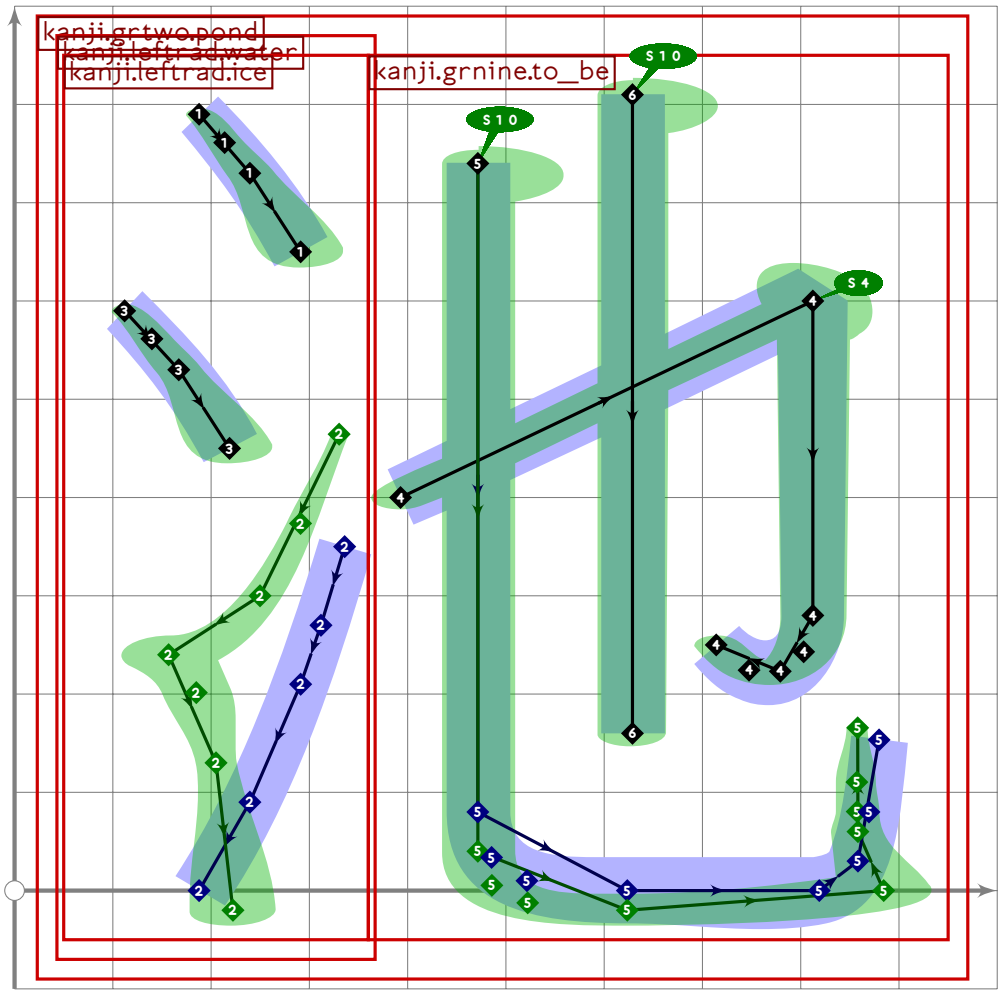
tsuku-6c.mp

```
%
% Unicode page 6C (Kanji) for Tsukurimashou
% Copyright (C) 2011, 2012 Matthew Skala
%
[Standard copyright notice]

---

beginfont

% AUTODEPS
input bottomrad.mp;
input buildkanji.mp;
input gradeeight.mp;
input gradefive.mp;
input gradefour.mp;
input gradenine.mp;
input gradeone.mp;
input gradesix.mp;
input gradethree.mp;
input gradetwo.mp;
input leftrad.mp;
input radical.mp;
input rare.mp;
input toprad.mp;

do_late_includes;

---
```

U+6C17
tsuku.uni6C17

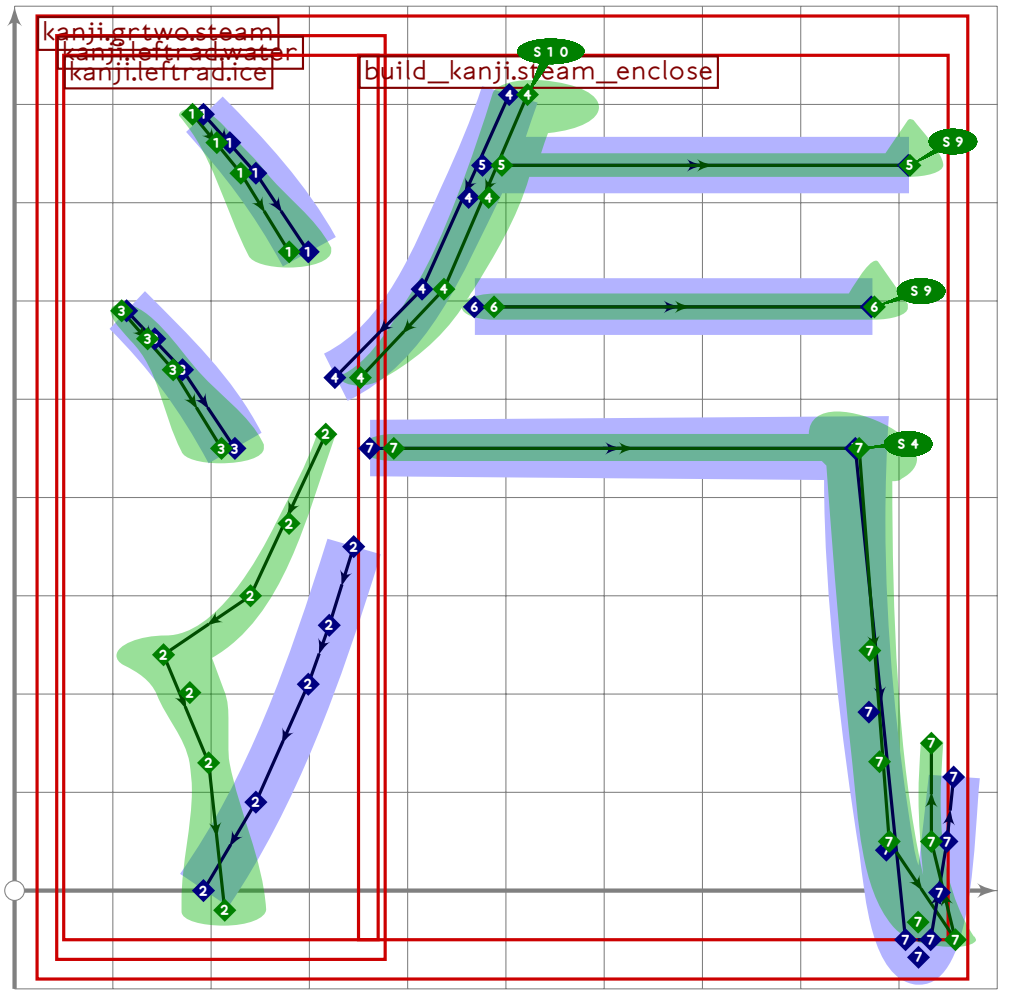



```
54
55 vardef kanji.grone.spirit =
56   push_pbox_toexpand("kanji.grone.spirit");
57   build_kanji.steam_enclose((700,400))
58     (kanji.radical.cut_the_grass);
59   expand_pbox;
60 enddef;
61
62 ---------------------------------------------------------------
```



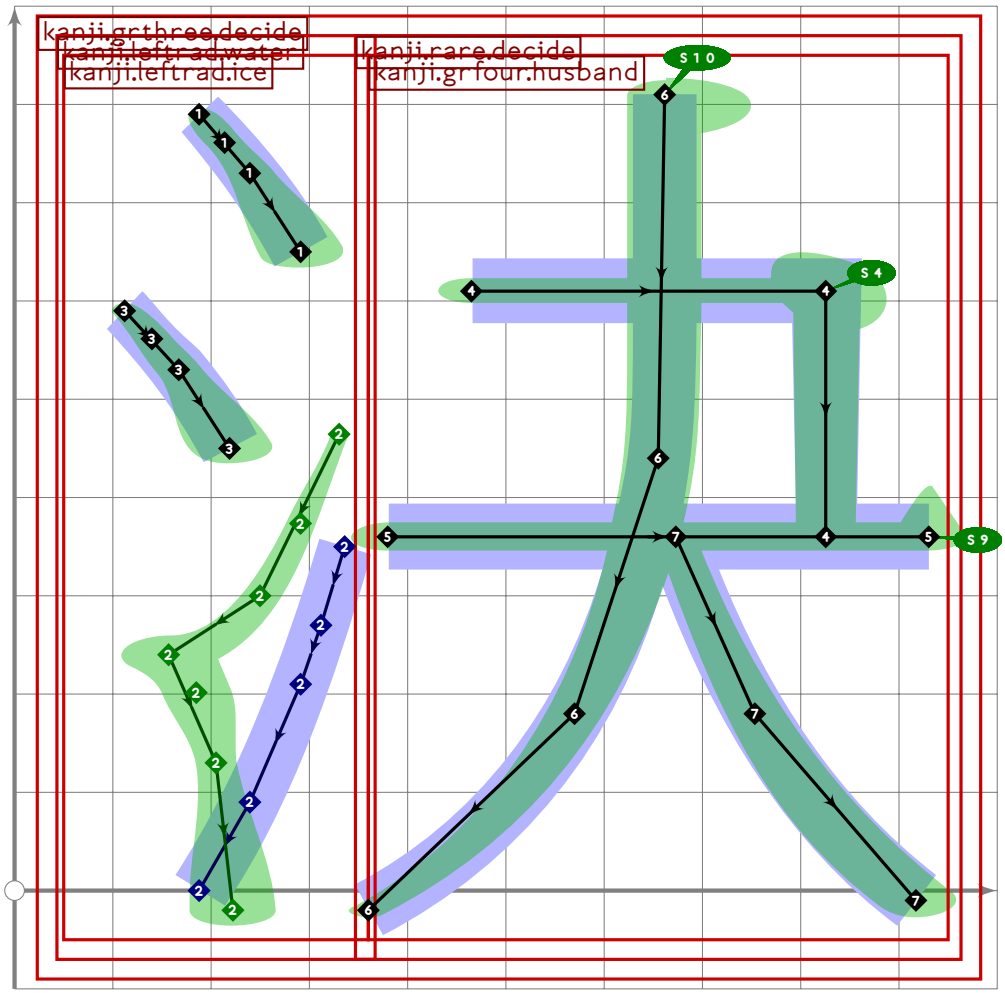

```
63
64 vardef kanji.grtwo.pond =
65   push_pbox_toexpand("kanji.grtwo.pond");
66   build_kanji.lr(360,0)
67     (kanji.leftrad.water)
68     (kanji.grnine.to_be);
69   expand_pbox;
70 enddef;
```

U+6C7D
tsuku.uni6C7D



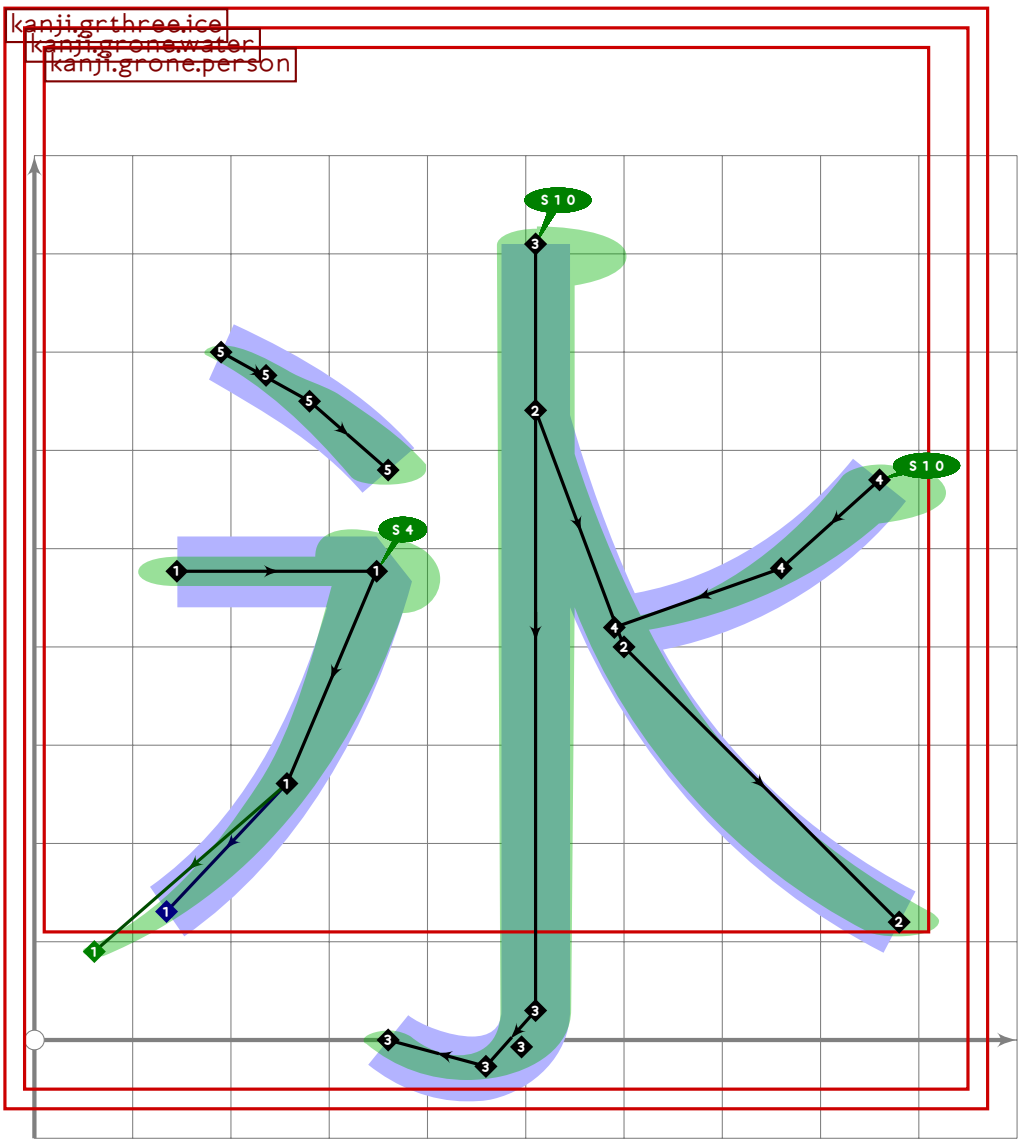
6C

```
vardef kanji.grtwo.steam =
  push_pbox_toexpand("kanji.grtwo.steam");
  build_kanji.lr(360,20-50*mincho)
    (kanji.leftrad.water)
    (build_kanji.steam_enclose((700,400))());
  expand_pbox;
enddef;
```

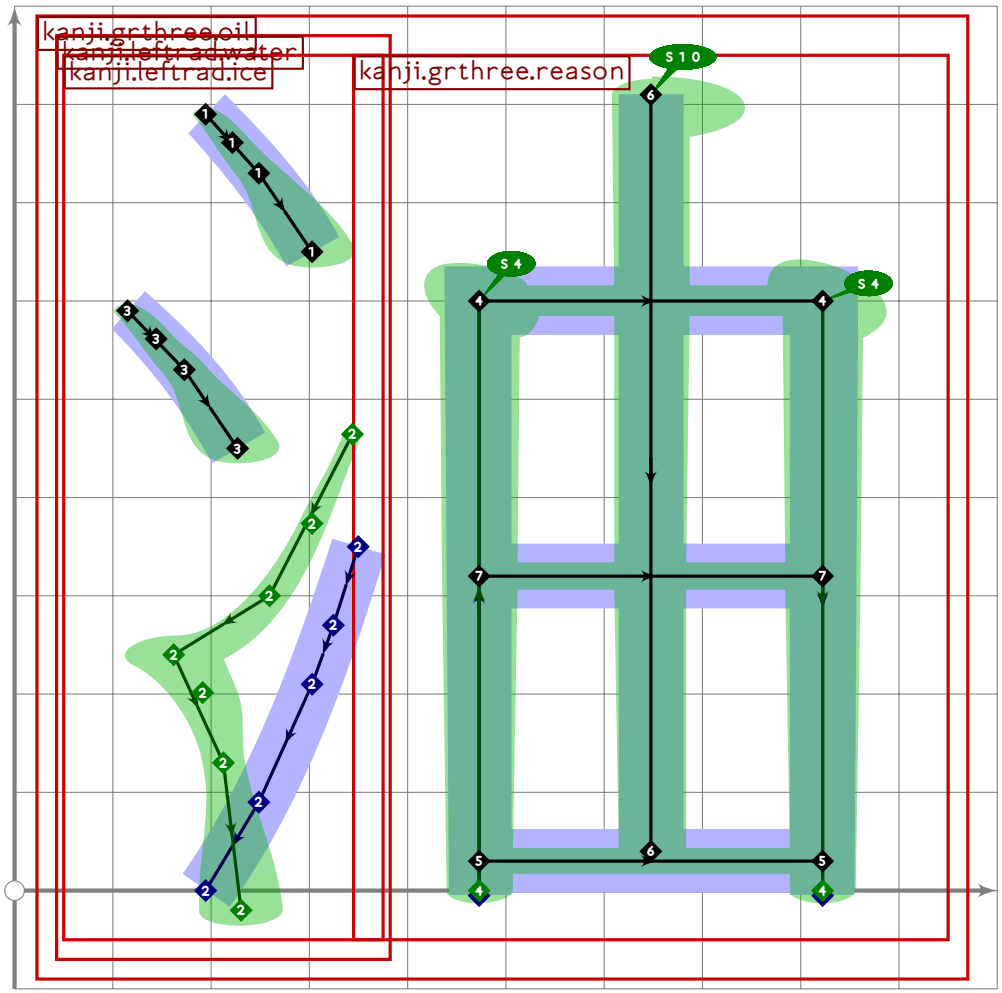



```
81
82 vardef  kanji.grthree.decide =
83   push_pbox_toexpand("kanji.grthree.decide");
84   build_kanji.lr(360,0)
85     (kanji.leftrad.water)
86     (kanji.rare.decide);
87   expand_pbox;
88 enddef;
```

U+6C37
tsuku.uni6C37

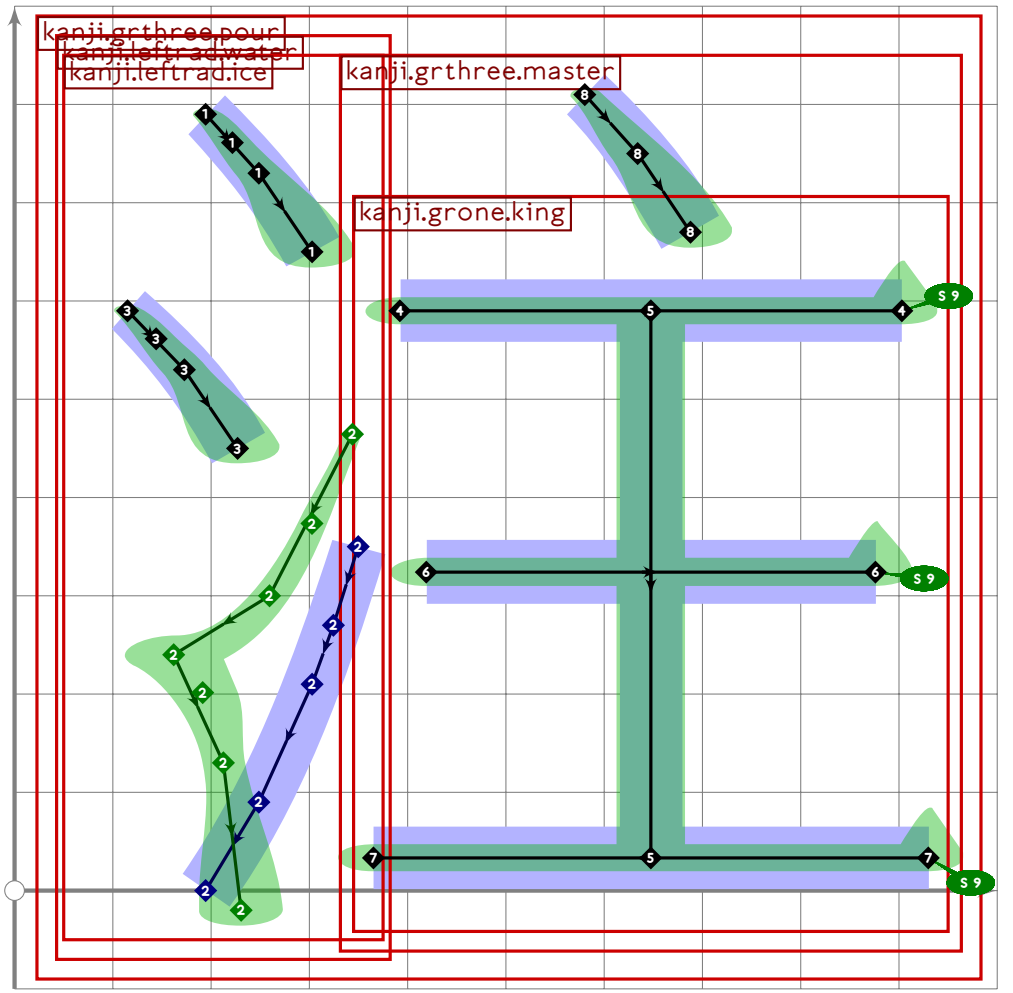



```
89
90 vardef kanji.grthree.ice =
91   push_pbox_toexpand("kanji.grthree.ice");
92   kanji.grone.water;
93   replace_strokep(-3)(oldp yscaled 0.9);
94   push_stroke((190,700)..tension 1.2..(280,650)..(360,580),
95     (1,1)-(1.4,1.4)-(1.6,1.6));
96   expand_pbox;
97 enddef;
```



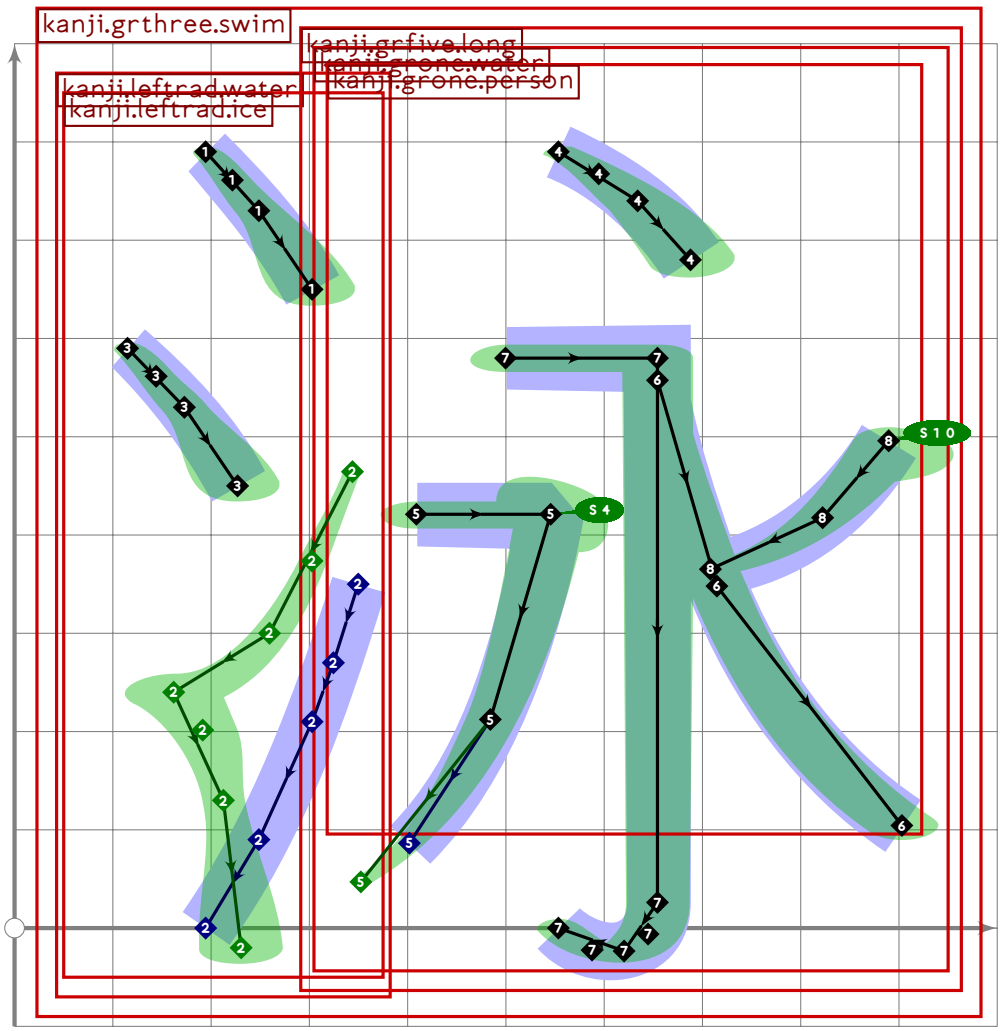

```
98
99 vardef kanji.grthree.oil =
100   push_pbox_toexpand("kanji.grthree.oil");
101   build_kanji.lr(360,30)
102     (kanji.leftrad.water)
103     (kanji.grthree.reason);
104   expand_pbox;
105 enddef;
```

U+6CE8
tsuku.uni6CE8



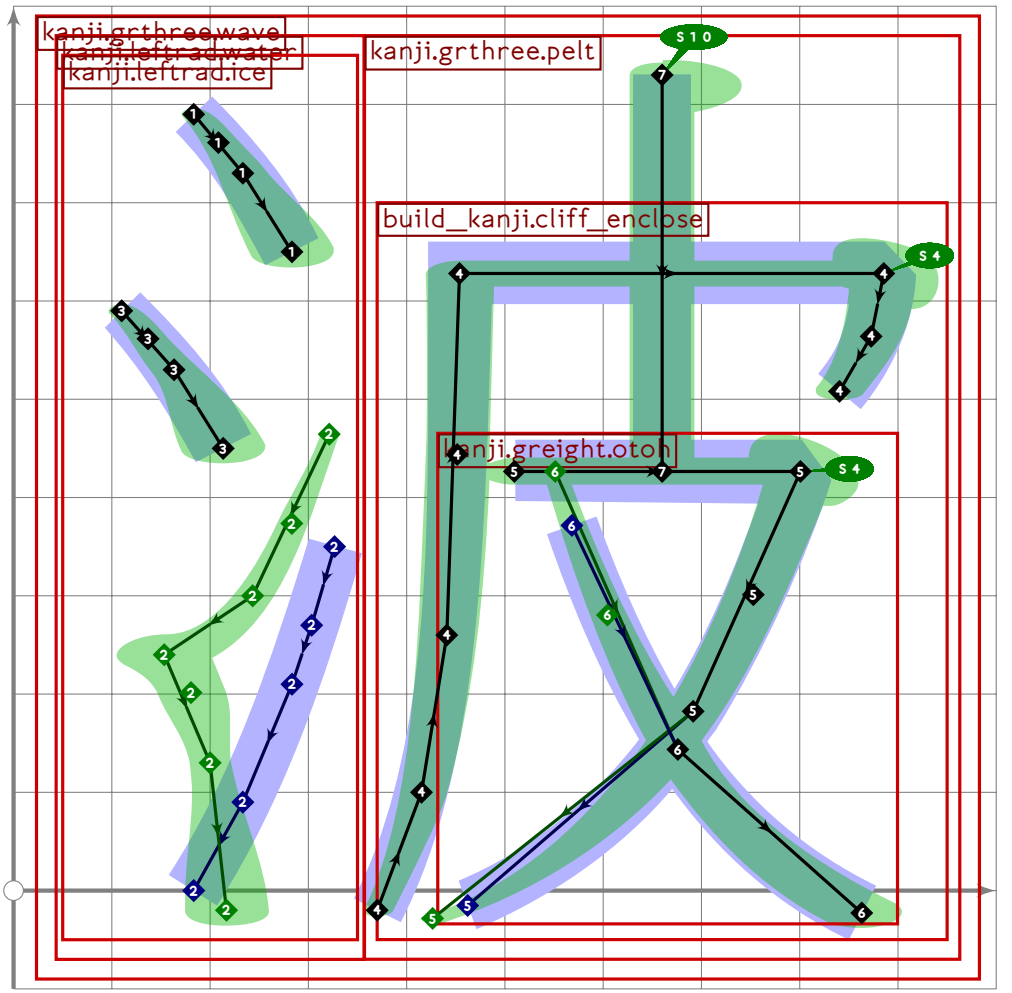
6C

```
106
107 vardef  kanji.grthree.pour =
108   push_pbox_toexpand("kanji.grthree.pour");
109   build_kanji.lr(360,30)
110     (kanji.leftrad.water)
111     (kanji.grthree.master);
112   expand_pbox;
113 enddef;
```

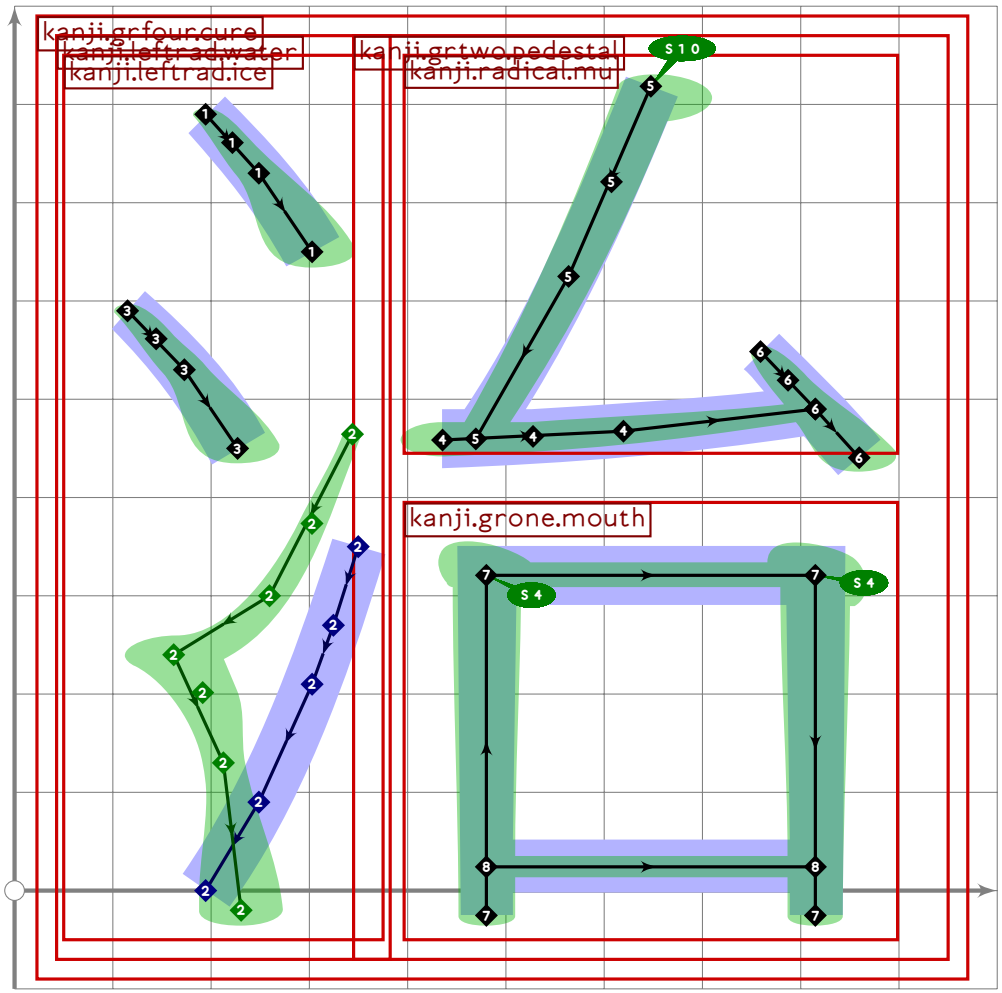



```
114
115 vardef kanji.grthree.swim =
116   push_pbox_toexpand("kanji.grthree.swim");
117   build_kanji.lr(360,30)
118     (kanji.leftrad.water)
119     (kanji.grfive.long);
120   expand_pbox;
121 enddef;
```

U+6CE2
tsuku.uni6CE2

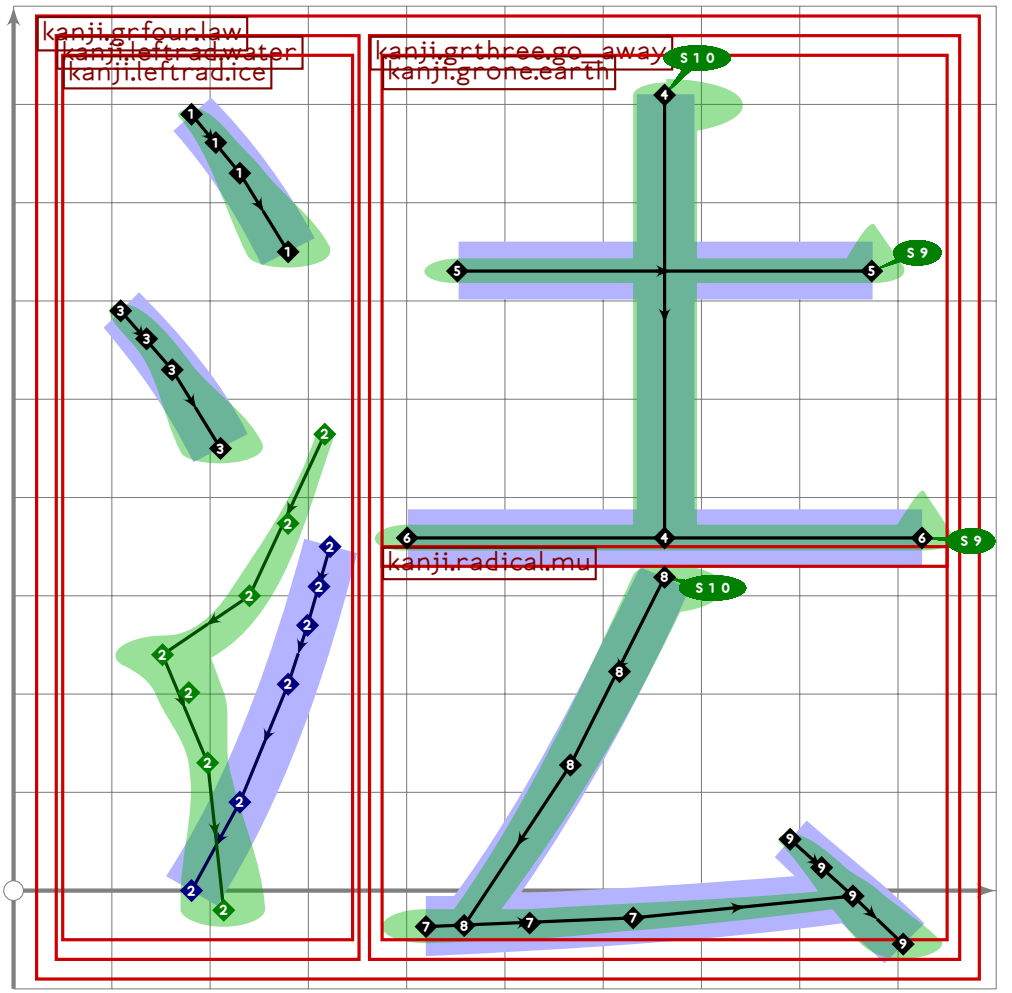



```
122
123 vardef kanji.grthree.wave =
124   push_pbox_toexpand("kanji.grthree.wave");
125   build_kanji.lr(360,-20)
126     (kanji.leftrad.water)
127     (tsu_xform(identity shifted (0,20))(kanji.grthree.pelt));
128   expand_pbox;
129 enddef;
130
131 ---------------------------------------------------------------
```

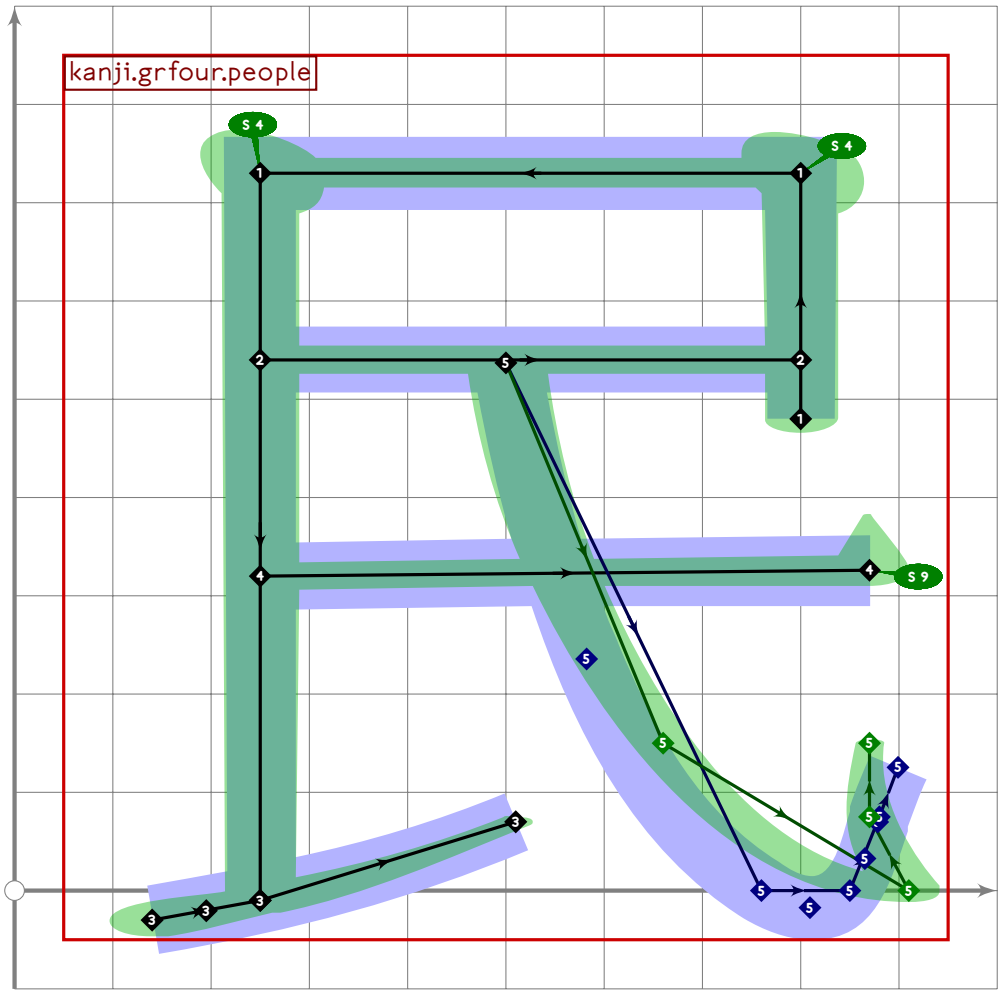



```
132
133 vardef  kanji.grfour.cure =
134   push_pbox_toexpand("kanji.grfour.cure");
135   build_kanji.lr(360,30)
136     (kanji.leftrad.water)
137     (kanji.grtwo.pedestal);
138   expand_pbox;
139 enddef;
```

U+6CD5
tsuku.uni6CD5

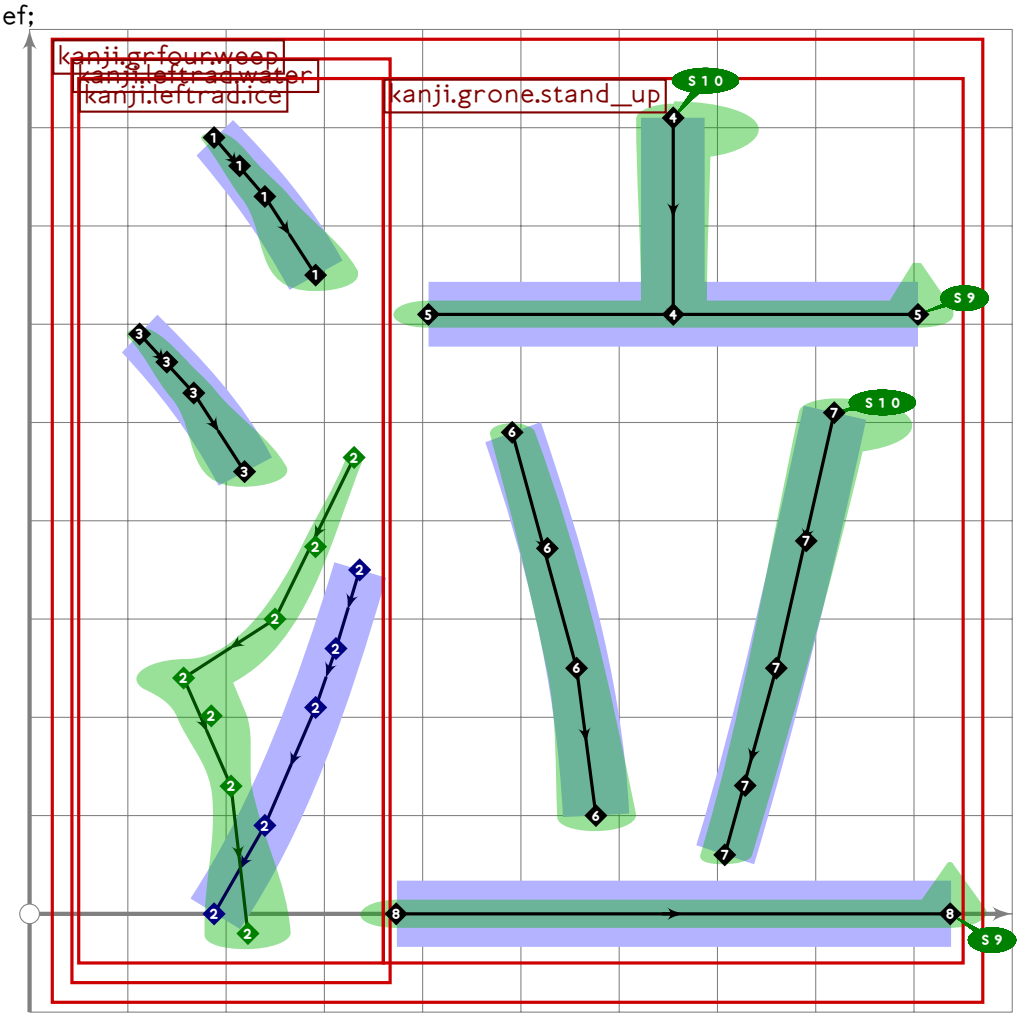



```
140
141 vardef kanji.grfour.law =
142   push_pbox_toexpand("kanji.grfour.law");
143   build_kanji.lr(360,-30)
144     (kanji.leftrad.water)
145     (kanji.grthree.go_away);
146   expand_pbox;
147 enddef;
```

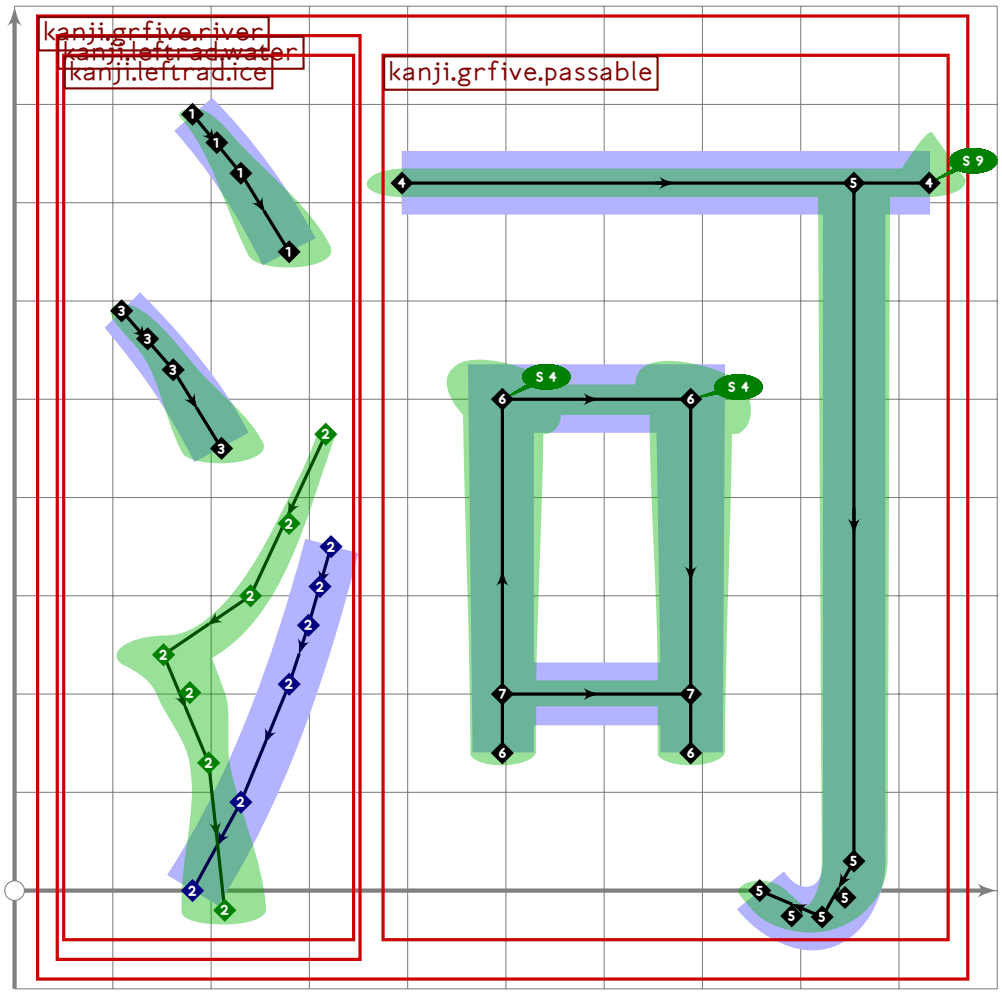



```
148
149 vardef kanji.grfour.people =
150   push_pbox_toexpand("kanji.grfour.people");
151   push_stroke((800,480)--(800,730)--(250,730)--(250,-10),
152     (1.5,1.5)--(1.6,1.6)--(1.6,1.6)--(1.5,1.5));
153   set_botip(0,1,1);
154   set_botip(0,2,1);
155   set_boserif(0,1,4);
156   set_boserif(0,2,4);
157   push_stroke((250,540)--(800,540),
158     (1.5,1.5)--(1.5,1.5));
159   push_stroke((140,-30)..tension 1.2..(250,-10)..(510,70),
160     (1.7,1.7)--(1.5,1.5)--(1,1));
161   push_stroke((250,320)--(870,326),(1.5,1.5)--(1.6,1.6));
162   set_boserif(0,1,9);
163   push_stroke(interpath(mincho,
164       (500,537){dir 280}..tension 1.1..(760,0)..(850,0)..tension 1.5..
165         (880,75)..(910,150),
166       (500,537)..(660,150)..{right}(910,0){curl 1}..
167         (870,75)..(870,150)),
168     (1.6,1.6)--(1.4,1.4)--(1.4,1.4)--(1.2,1.2)--(0.9,0.9));
```

```
169   expand_pbox;
170 enddef;
```

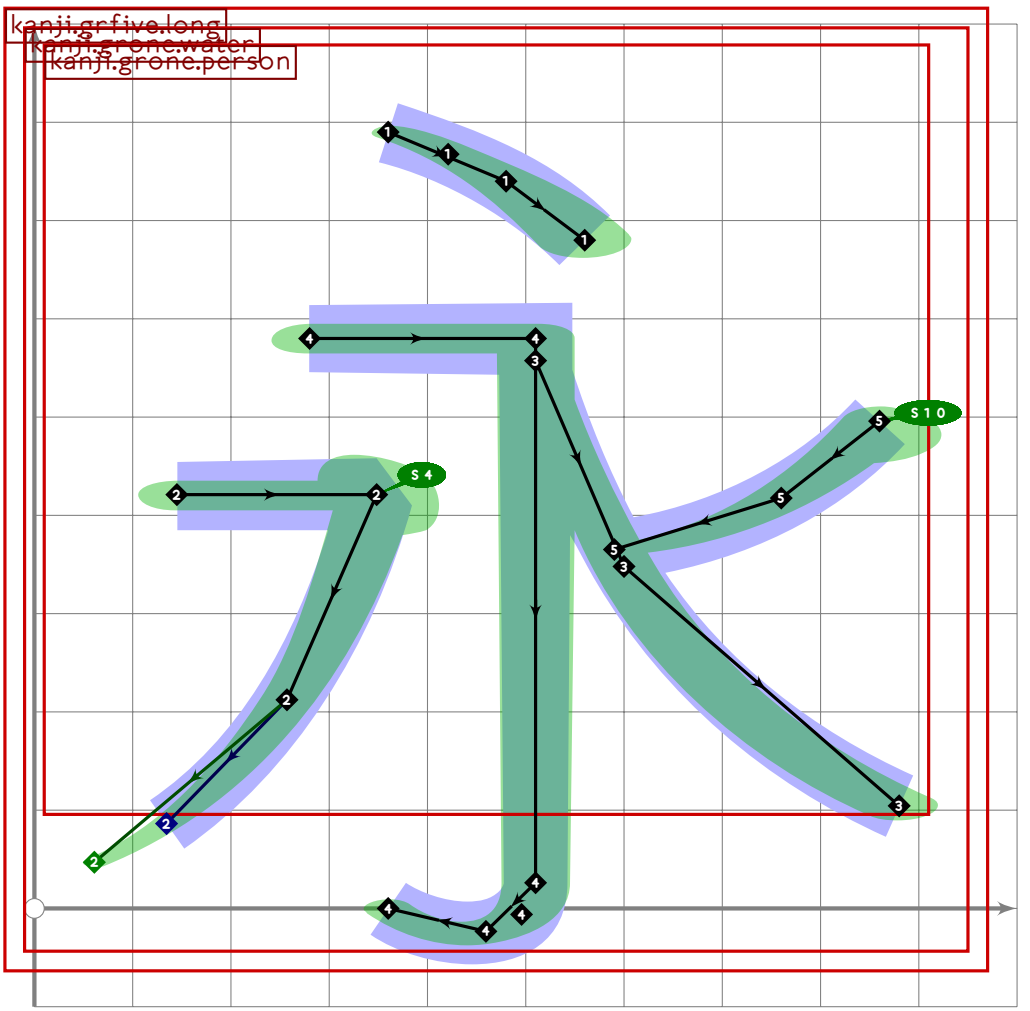



```
171
172 vardef  kanji.grfour.weep =
173   push_pbox_toexpand("kanji.grfour.weep");
174   build_kanji.lr(360,0)
175     (kanji.leftrad.water)
176     (kanji.grone.stand_up);
177   expand_pbox;
178 enddef;
179
180 ---------------------------------------------------------------------------
```

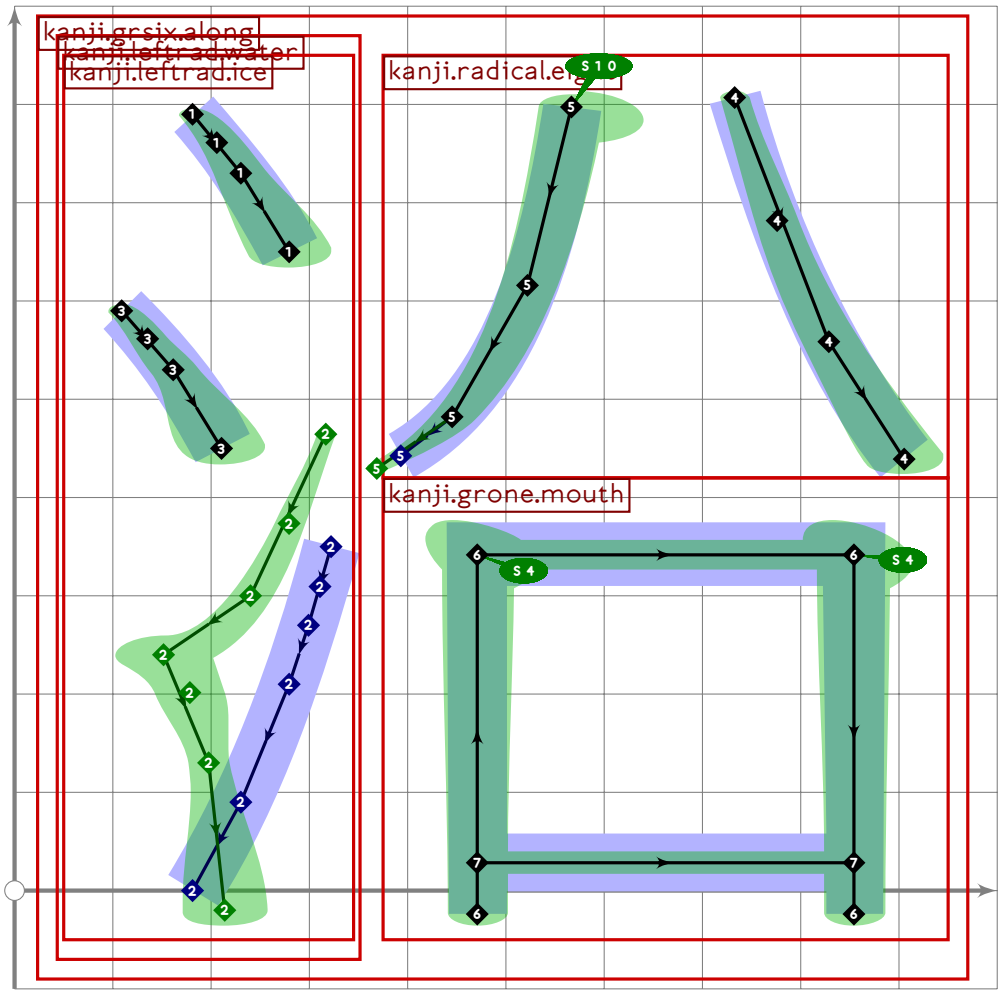



```
181
182 vardef kanji.grfive.river =
183   push_pbox_toexpand("kanji.grfive.river");
184   build_kanji.lr(360,-30)
185     (kanji.leftrad.water)
186     (kanji.grfive.passable);
187   expand_pbox;
188 enddef;
```

U+6C38
tsuku.uni6C38

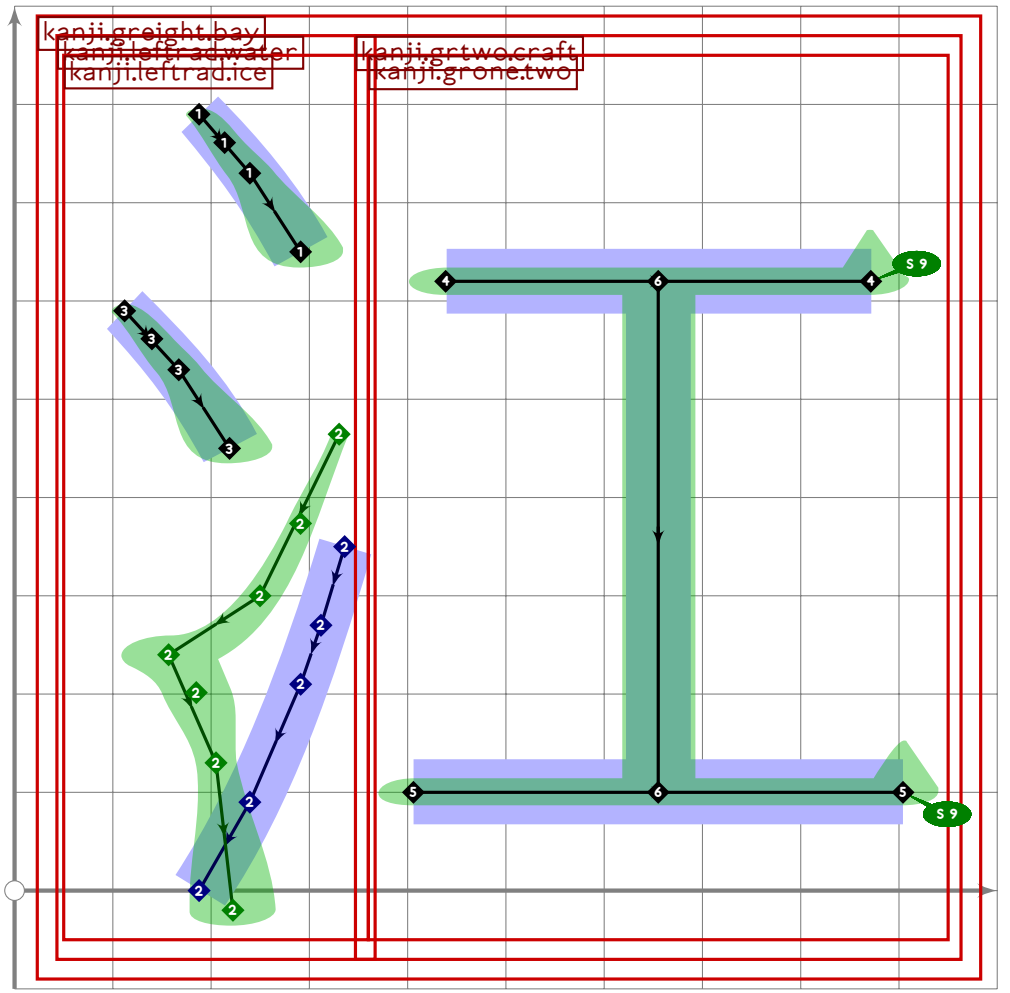



```
189
190 vardef kanji.grfive.long =
191   push_pbox_toexpand("kanji.grfive.long");
192   push_stroke((360,790)..tension 1.2..(480,740)..(560,680),
193     (1,1)-(1.5,1.5)-(1.8,1.8));
194   tsu_xform(identity yscaled 0.87)(kanji.grone.water);
195   replace_strokep(-3)(oldp shifted (0,-40));
196   replace_strokep(-1)((280,580)-(510,580)-(subpath (1,infinity) of oldp));
197   replace_strokeq(-1)((1.6,1.6)-oldq);
198   set_boserif(-1,0,whatever);
199   set_botip(-1,1,1);
200   expand_pbox;
201 enddef;
202
203 ---------------------------------------------------------------------------
```

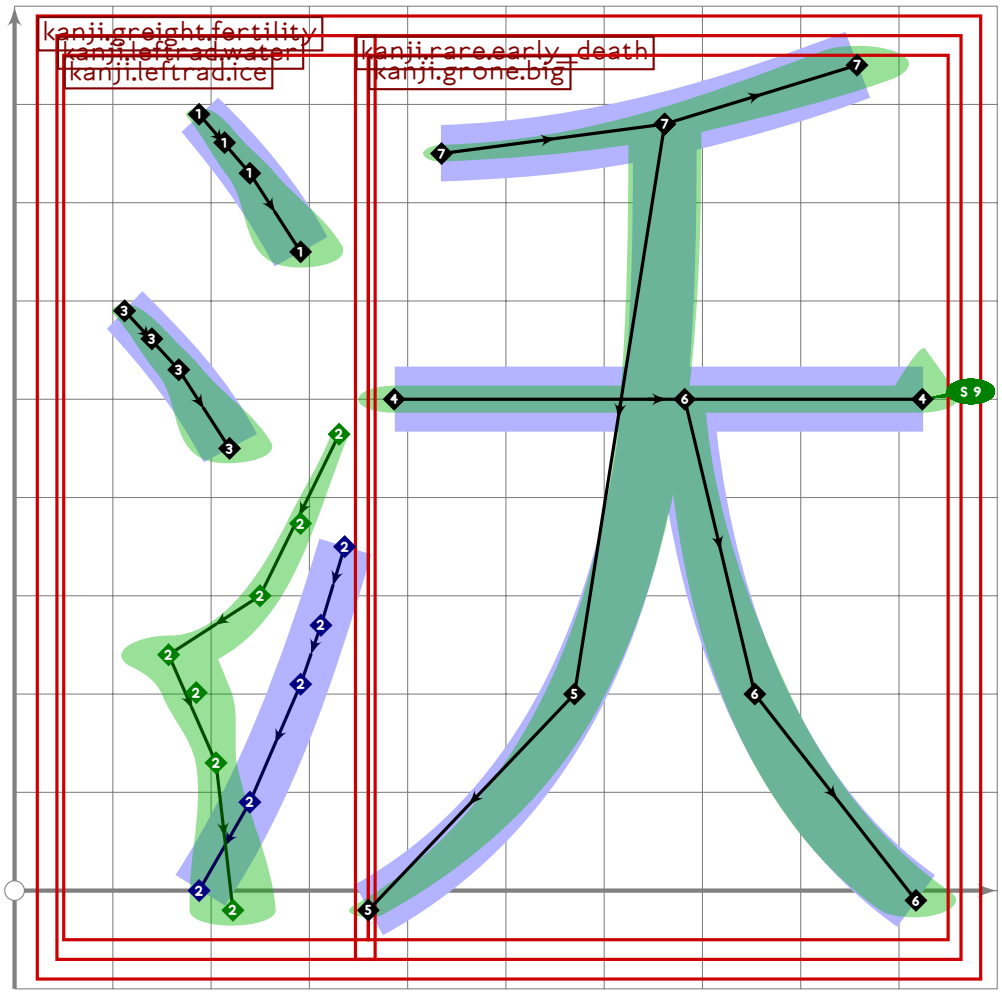



```
vardef kanji.grsix.along =
  push_pbox_toexpand("kanji.grsix.along");
  build_kanji.level(build_kanji.lr(360,-30)
    (kanji.leftrad.water)
    (build_kanji.tb(420,0)
        (kanji.radical.eight)
        (kanji.grone.mouth)));
  expand_pbox;
enddef;
```

U+6C5F
tsuku.uni6C5F

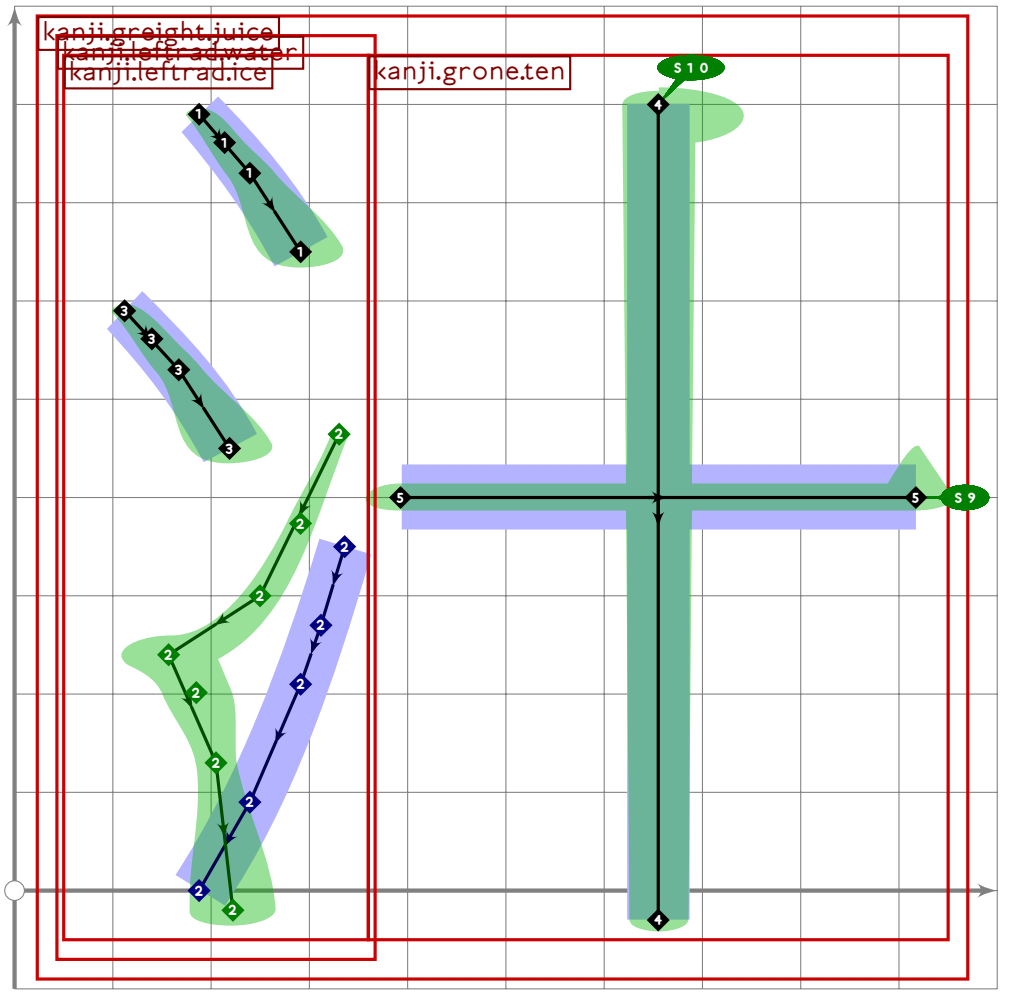



```
216
217 vardef  kanji.greight.bay =
218   push_pbox_toexpand("kanji.greight.bay");
219   build_kanji.lr(360,0)
220     (kanji.leftrad.water)
221     (kanji.grtwo.craft);
222   expand_pbox;
223 enddef;
```



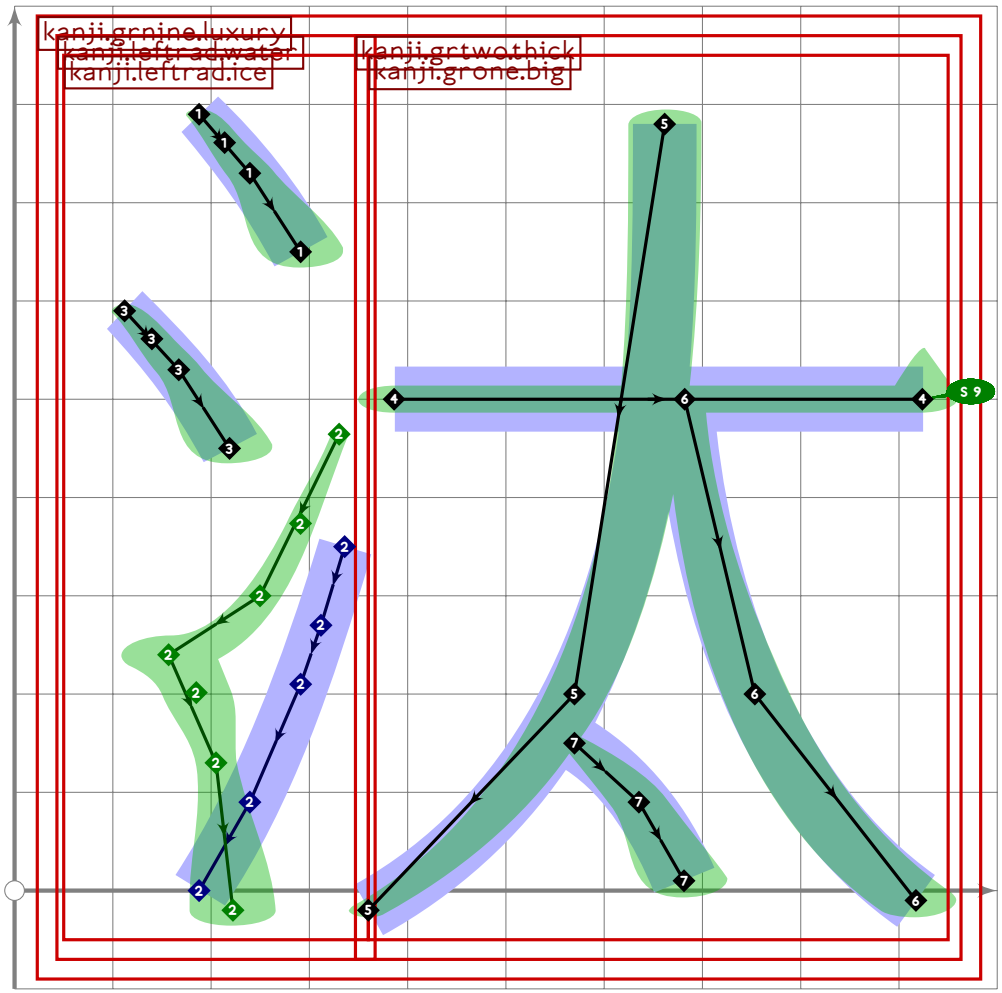

```
224
225 vardef kanji.greight.fertility =
226   push_pbox_toexpand("kanji.greight.fertility");
227   build_kanji.lr(360,0)
228     (kanji.leftrad.water)
229     (kanji.rare.early_death);
230   expand_pbox;
231 enddef;
```

U+6C41
tsuku.uni6C41



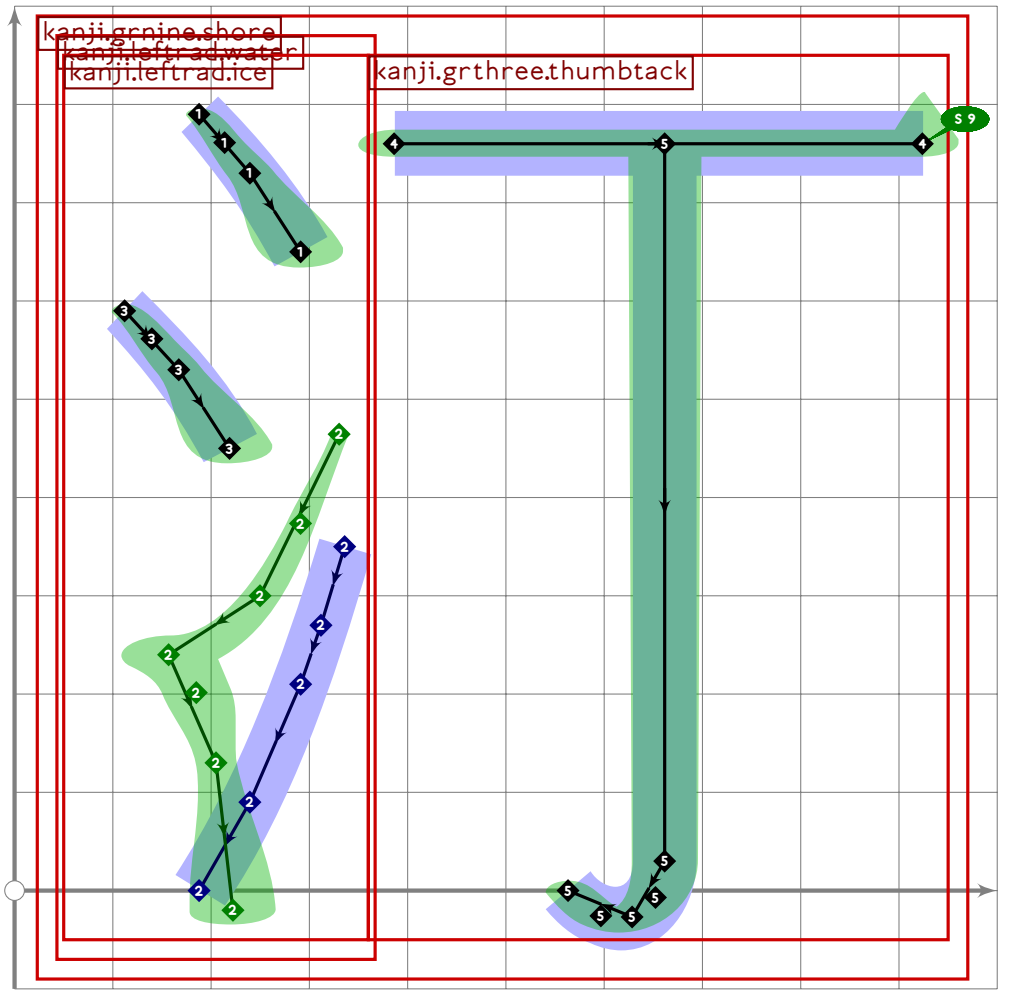
6C

```
vardef kanji.greight.juice =
  push_pbox_toexpand("kanji.greight.juice");
  build_kanji.lr(360,0)
    (kanji.leftrad.water)
    (kanji.grone.ten);
  expand_pbox;
enddef;
```



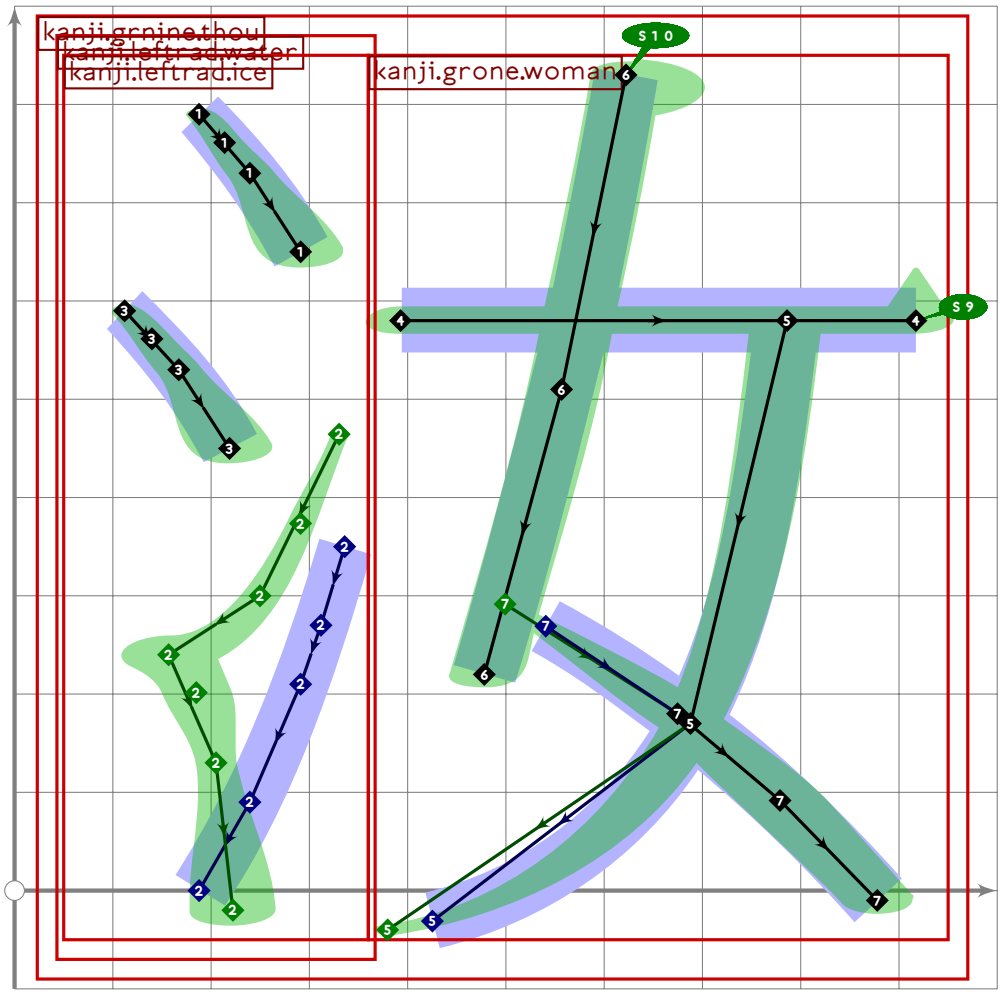

```
vardef kanji.grnine.luxury =
  push_pbox_toexpand("kanji.grnine.luxury");
  build_kanji.lr(360,0)
    (kanji.leftrad.water)
    (kanji.grtwo.thick);
  expand_pbox;
enddef;
```

U+6C40
tsuku.uni6C40

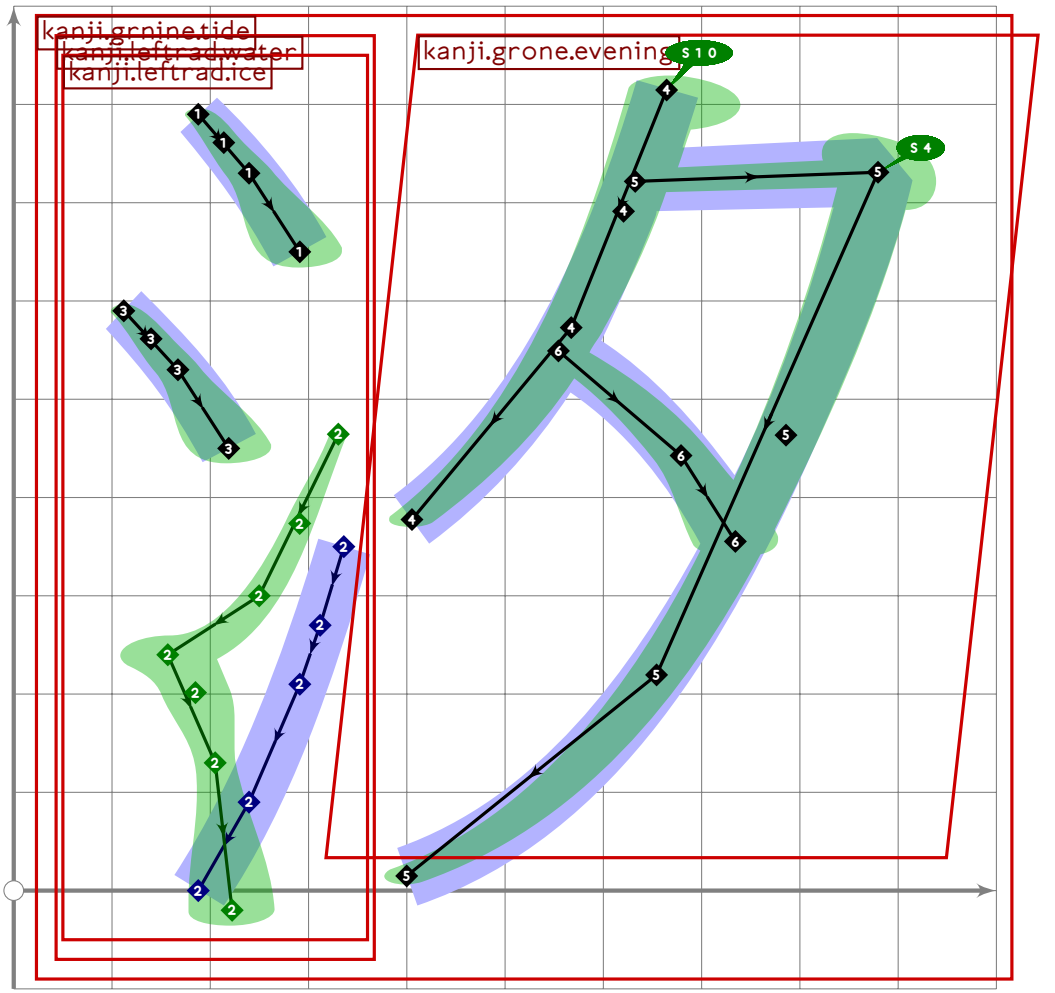


6C

```
250
251 vardef  kanji.grnine.shore =
252   push_pbox_toexpand("kanji.grnine.shore");
253   build_kanji.lr(360,0)
254     (kanji.leftrad.water)
255     (kanji.grthree.thumbtack);
256   expand_pbox;
257 enddef;
```

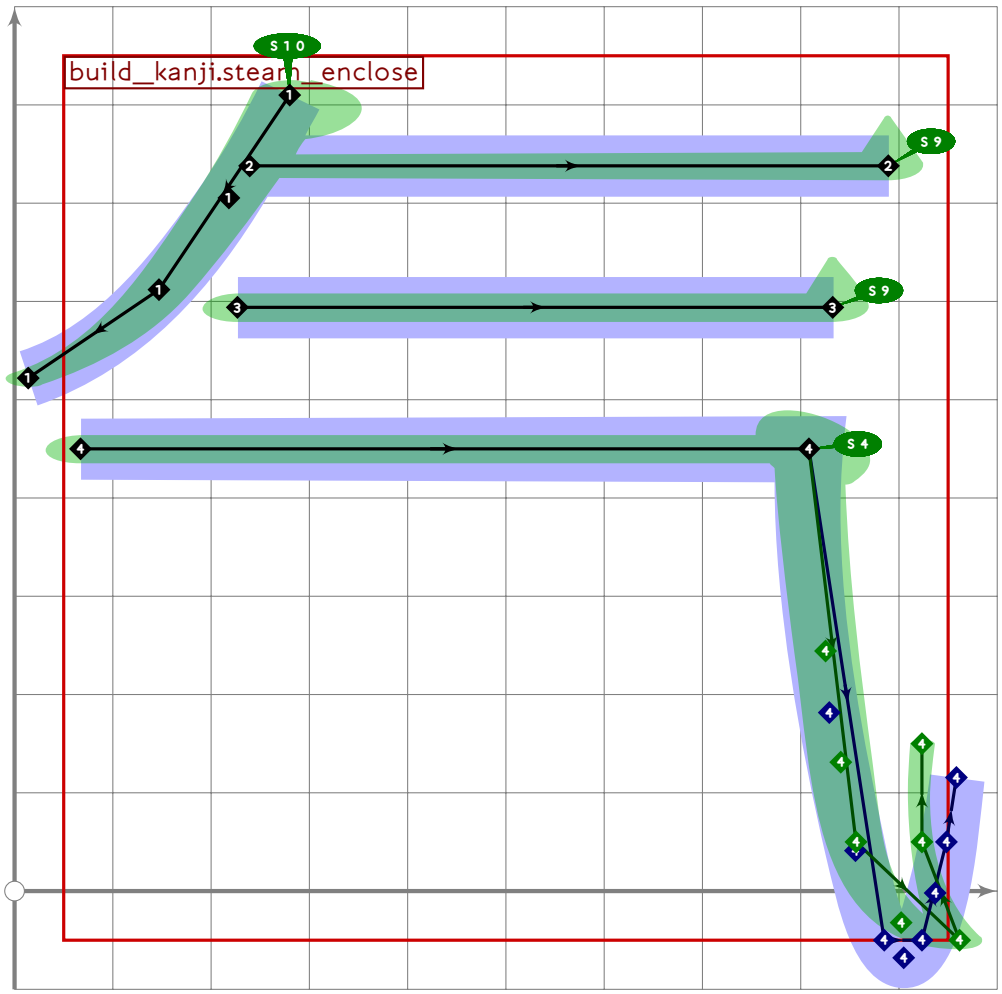



```
258
259 vardef  kanji.grnine.thou =
260   push_pbox_toexpand("kanji.grnine.thou");
261   build_kanji.lr(360,0)
262     (kanji.leftrad.water)
263     (kanji.grone.woman);
264   expand_pbox;
265 enddef;
```



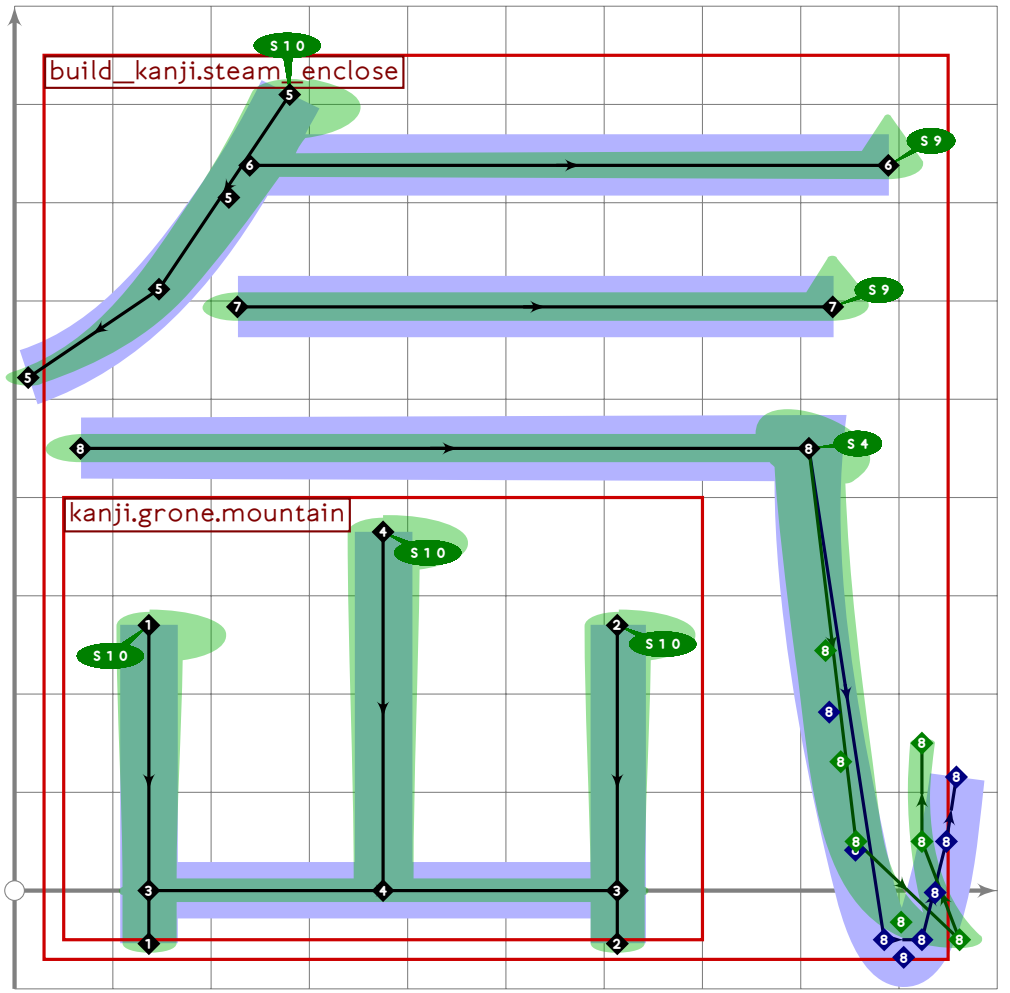

```
266
267 vardef kanji.grnine.tide =
268   push_pbox_toexpand("kanji.grnine.tide");
269   build_kanji.lr(360,0)
270     (kanji.leftrad.water)
271     (tsu_xform(identity xyscaled (1.07,0.93) slanted 0.17 shifted (-60,80))
272       (kanji.grone.evening));
273   expand_pbox;
274 enddef;
275
276 ---------------------------------------------------------------------------
277
278 % shi/uji "clan"
279 begintsuglyph("uni6C0F",15);                                  [see page 607]
280   kanji.grfour.clan;
281   tsu_render;
282 endtsuglyph;
283
284 % tai/fumoto "name of an ancient tribe"
285 begintsuglyph("uni6C10",16);                                  [see page 809]
286   kanji.rare.cruithne;
```

```
  tsu_render;
endtsuglyph;

% min/tami "people" (but not min as in minna "everybody")
begintsuglyph("uni6C11",17);                                    [see page 2365]
  kanji.grfour.people;
  tsu_render;
endtsuglyph;
```

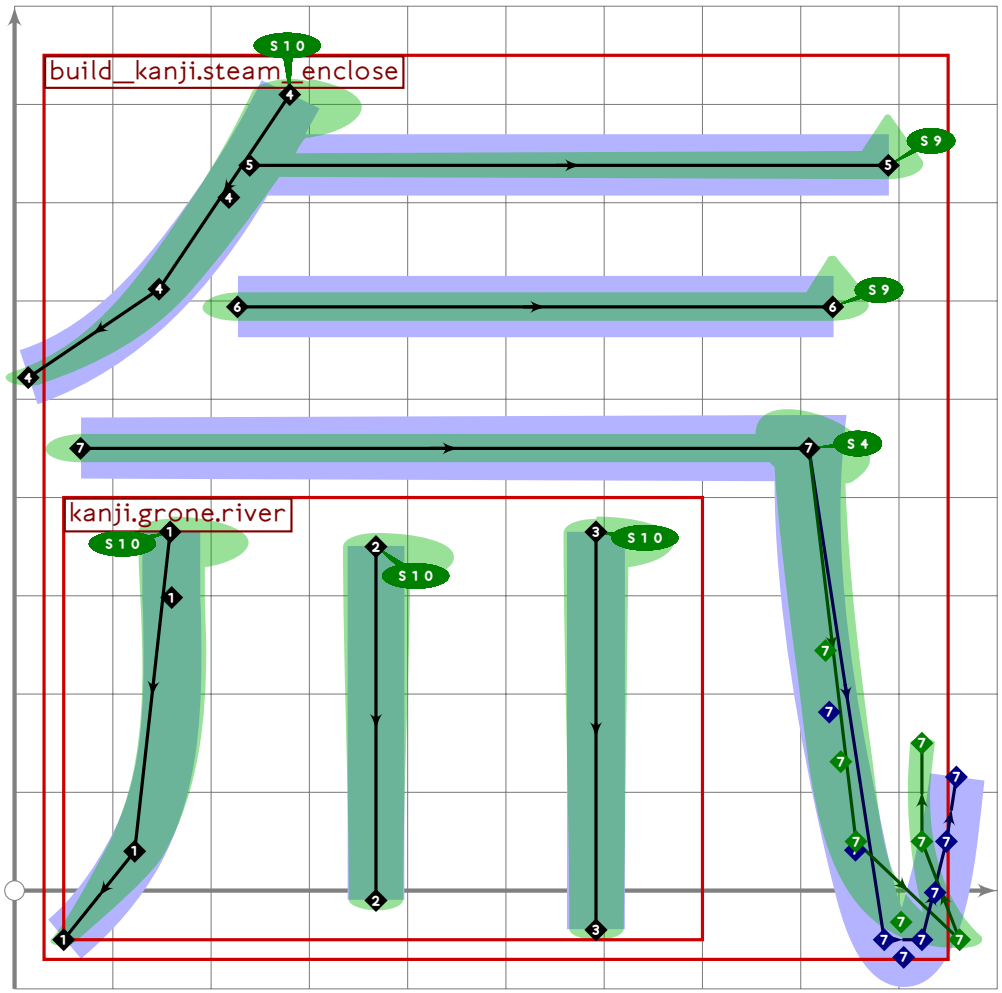



```
% sei/tada/machi "correct"
begintsuglyph("uni6C14",20);
  build_kanji.steam_enclose((700,400))();
  tsu_render;
endtsuglyph;

% ki/iki "spirit"
begintsuglyph("uni6C17",23);                                    [see page 2354]
  kanji.grone.spirit;
  tsu_render;
endtsuglyph;
```

U+6C19
tsuku.uni6C19

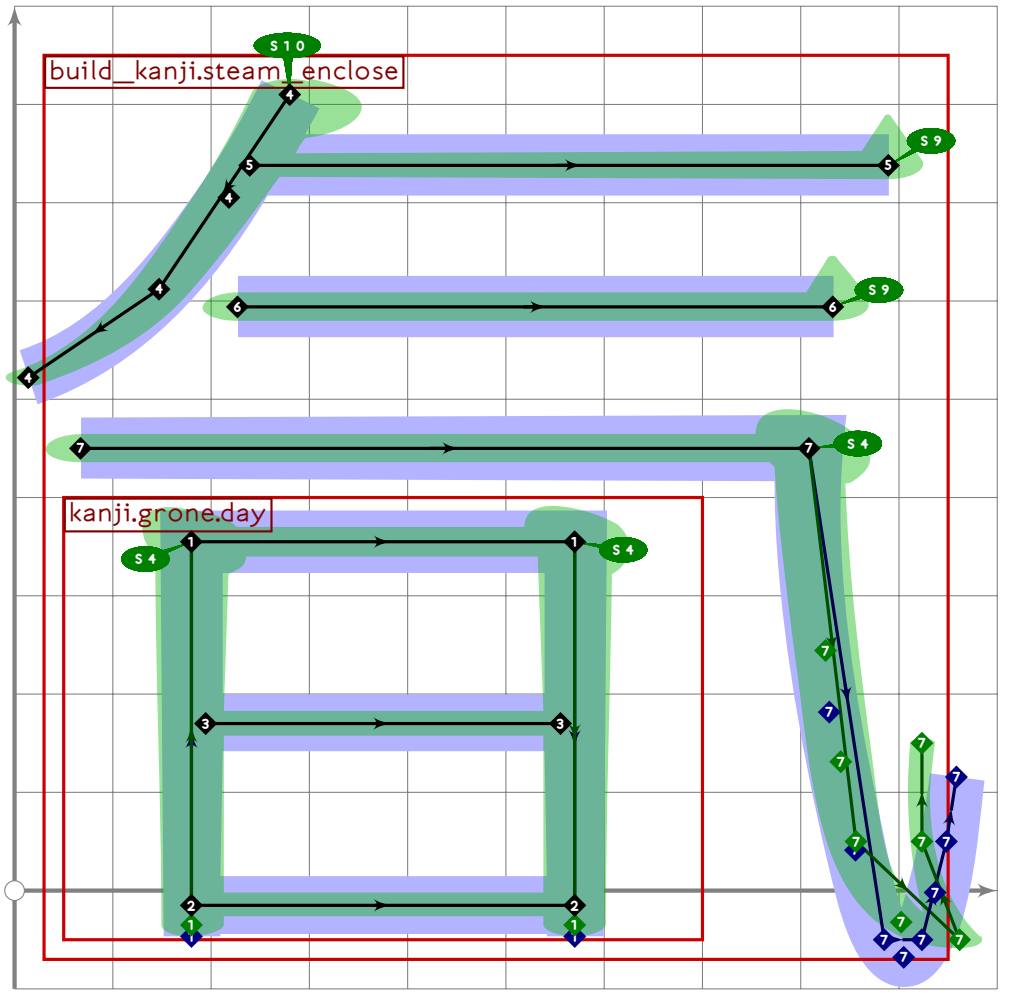



```
% extra
begintsuglyph("uni6C19",25);
  build_kanji.steam_enclose((700,400))(kanji.grone.mountain);
  tsu_render;
endtsuglyph;

```

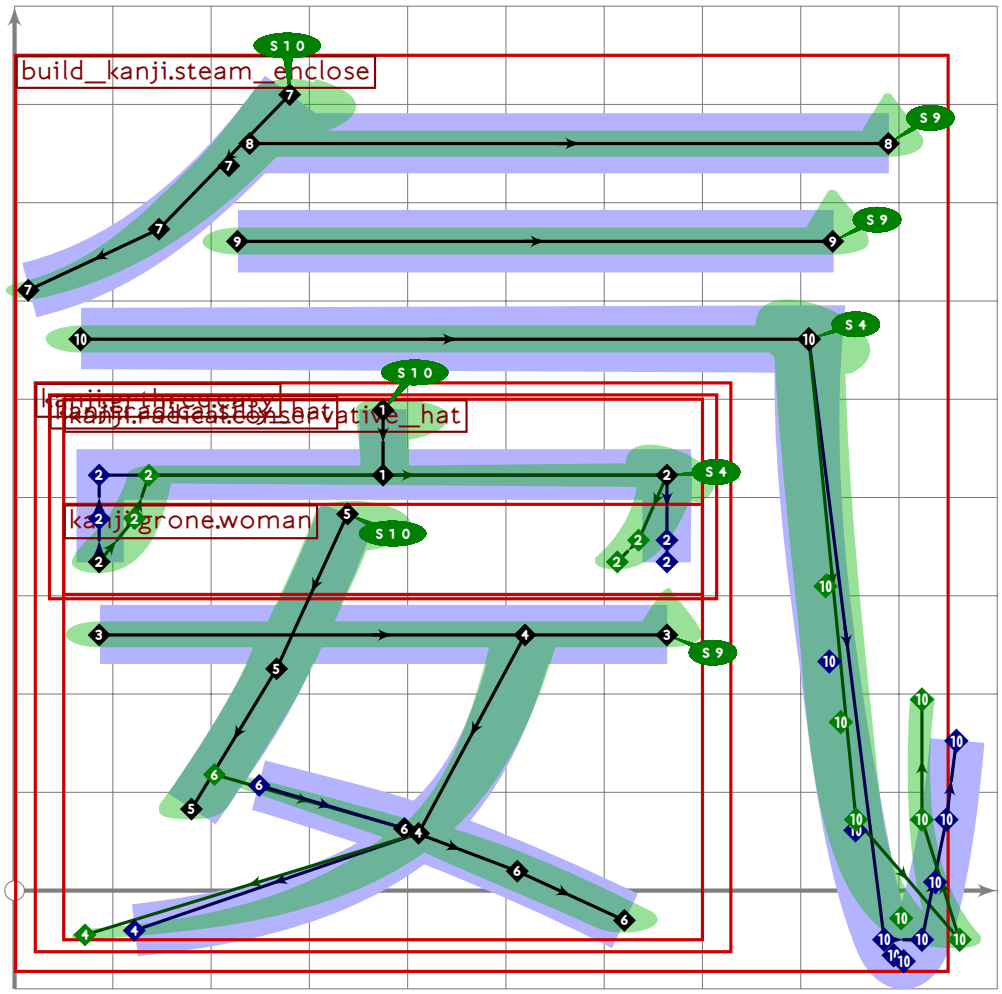



```
% extra
begintsuglyph("uni6C1A",26);
  build_kanji.steam_enclose((700,400))(kanji.grone.river);
  tsu_render;
endtsuglyph;

```

U+6C1C
tsuku.uni6C1C

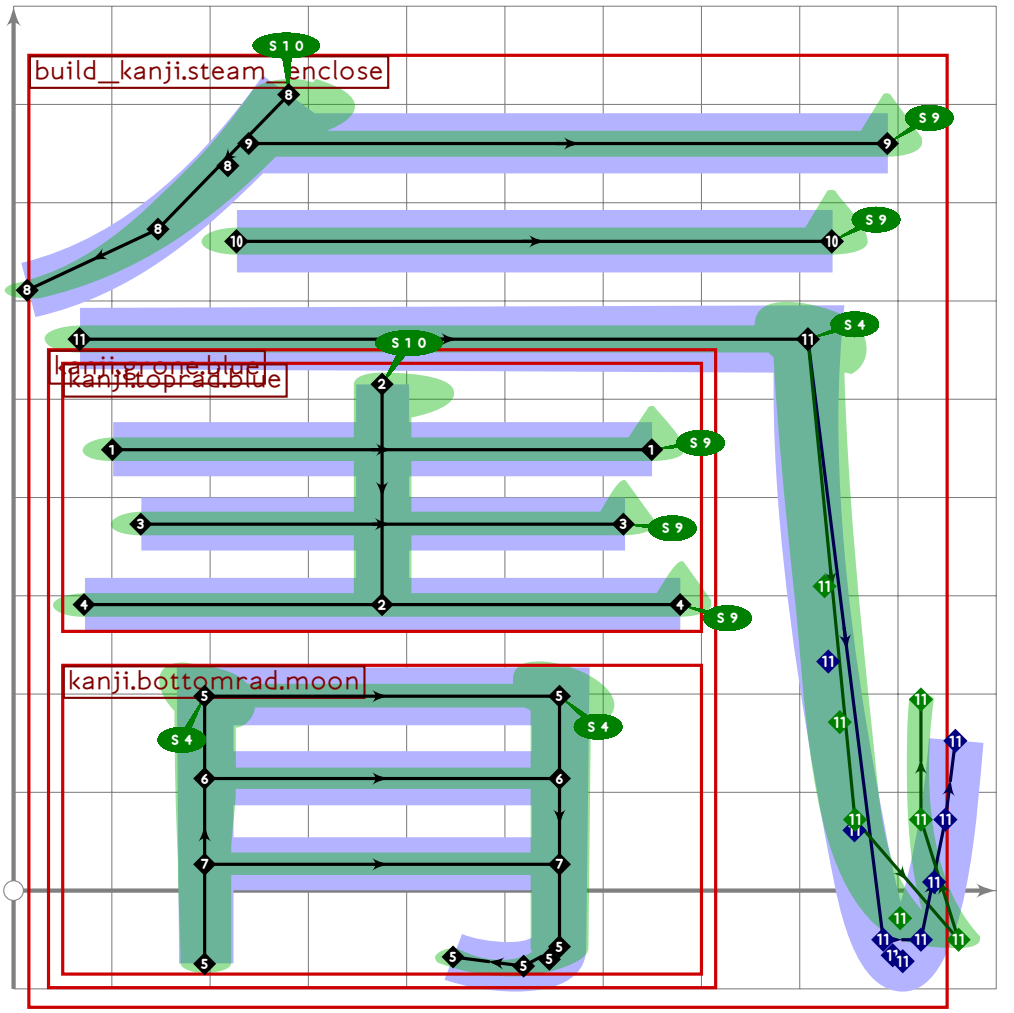



```
% extra
begintsuglyph("uni6C1C",28);
  build_kanji.steam_enclose((700,400))(kanji.grone.day);
  tsu_render;
endtsuglyph;

```



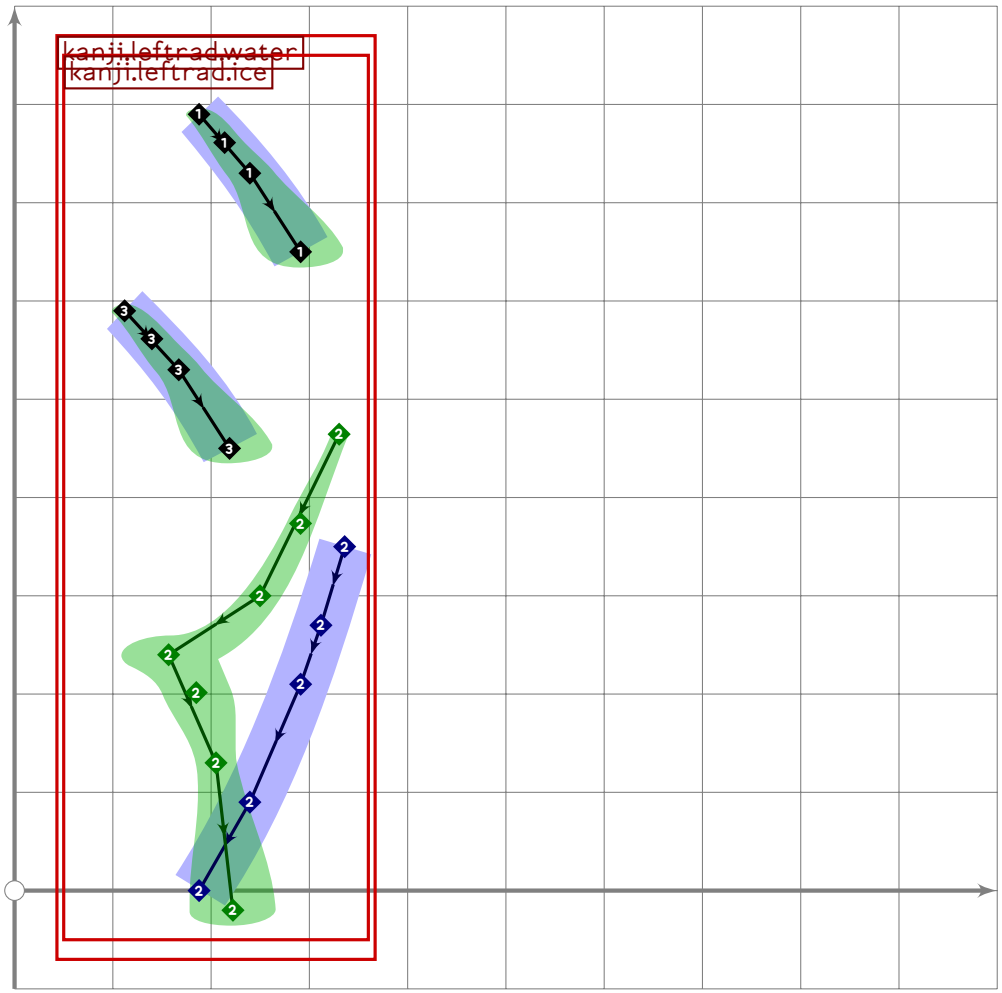

```
% extra
begintsuglyph("uni6C28",40);
  build__kanji.steam__enclose((700,500))(kanji.grthree.easy);
  tsu__render;
endtsuglyph;

```

U+6C30
tsuku.uni6C30




```
% extra
begintsuglyph("uni6C30",48);
  build_kanji.steam_enclose((700,500))
    (build_kanji.sscale(yscaled 1.13)(kanji.grone.blue));
  tsu_render;
endtsuglyph;

% sui/mizu "water"
begintsuglyph("uni6C34",52);
  kanji.grone.water;
  tsu_render;
endtsuglyph;
```

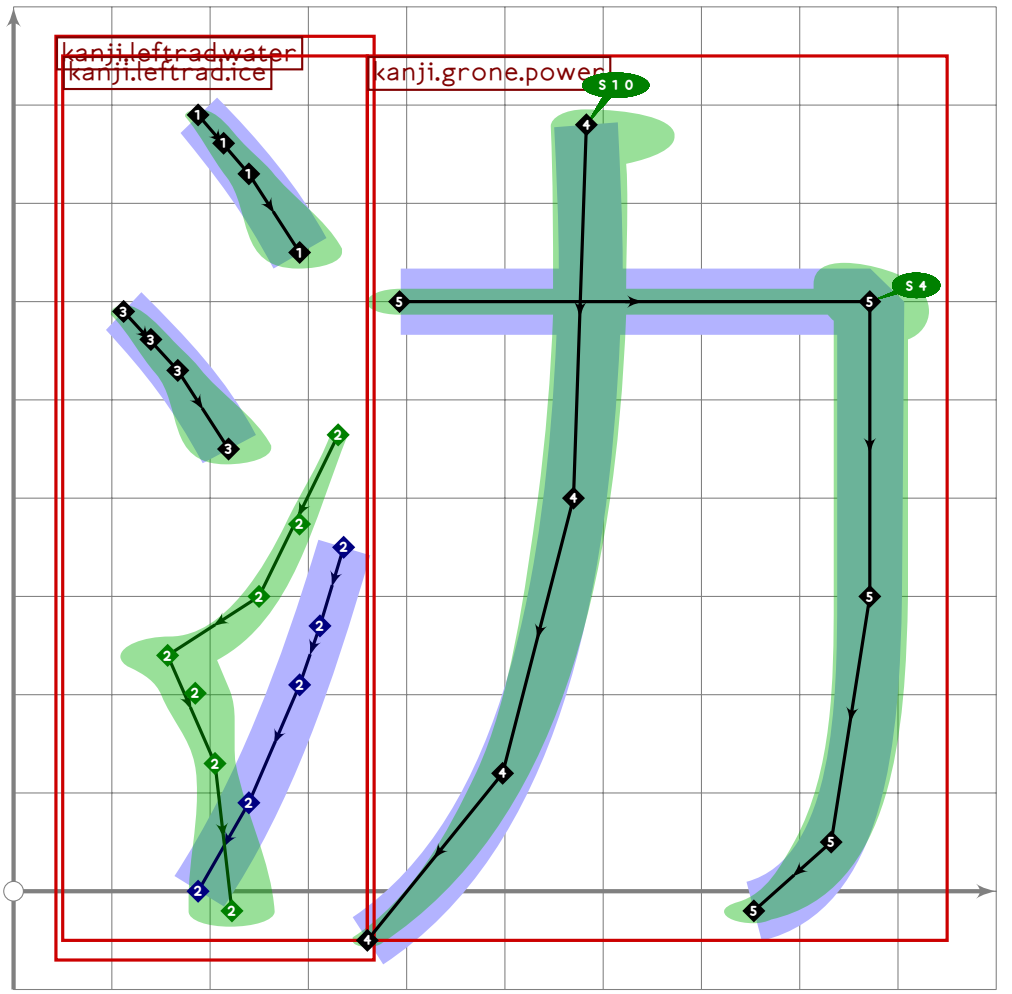
[see page 476]



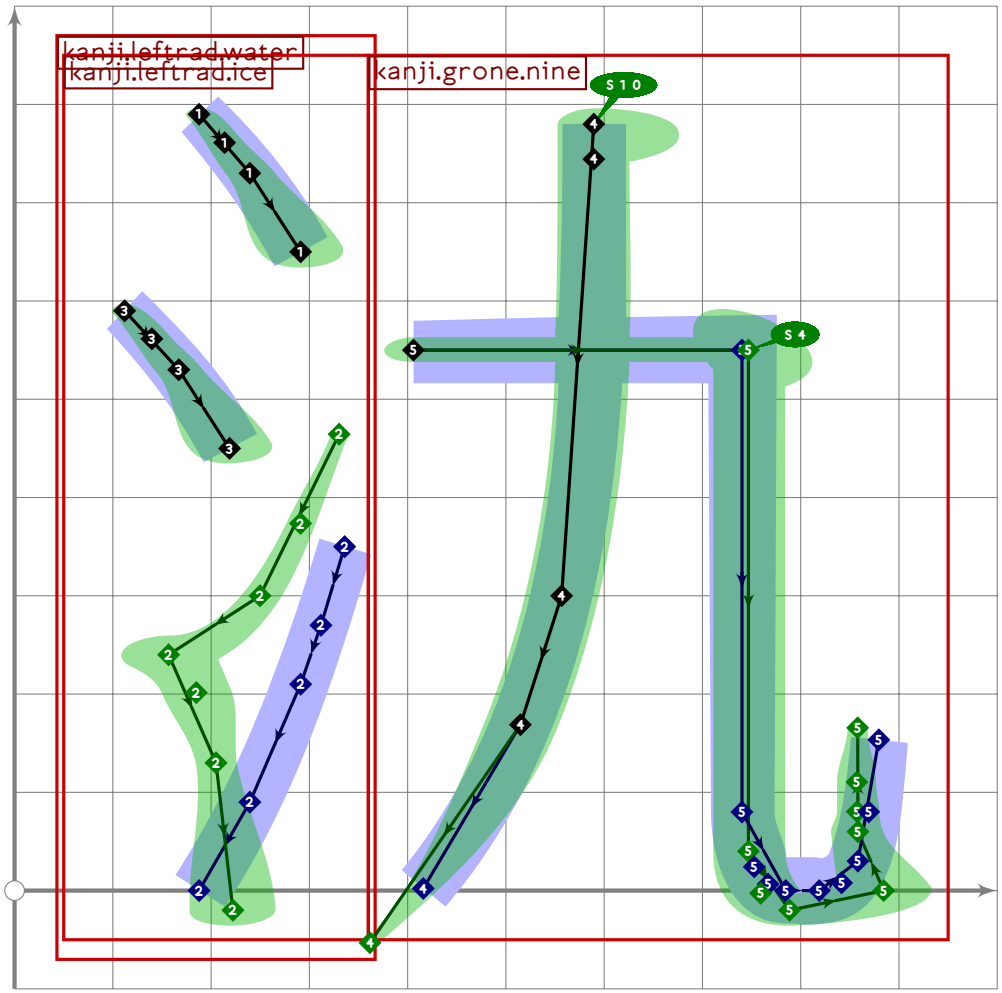

```
% extra "water side radical"
begintsuglyph("uni6C35",53);
  build_kanji.lr(360,0)
    (kanji.leftrad.water)
    ();
  tsu_render;
endtsuglyph;

% hyou/koori "ice"
begintsuglyph("uni6C37",55);                                  [see page 2358]
  kanji.grthree.ice;
  tsu_render;
endtsuglyph;

% ei/naga "long"
begintsuglyph("uni6C38",56);                                  [see page 2368]
  kanji.grfive.long;
  tsu_render;
endtsuglyph;

% water radical variant
```

```
begintsuglyph("uni6C3A",58);
  kanji.radical.alt_water;
  tsu_render;
endtsuglyph;
```

[see page 679]



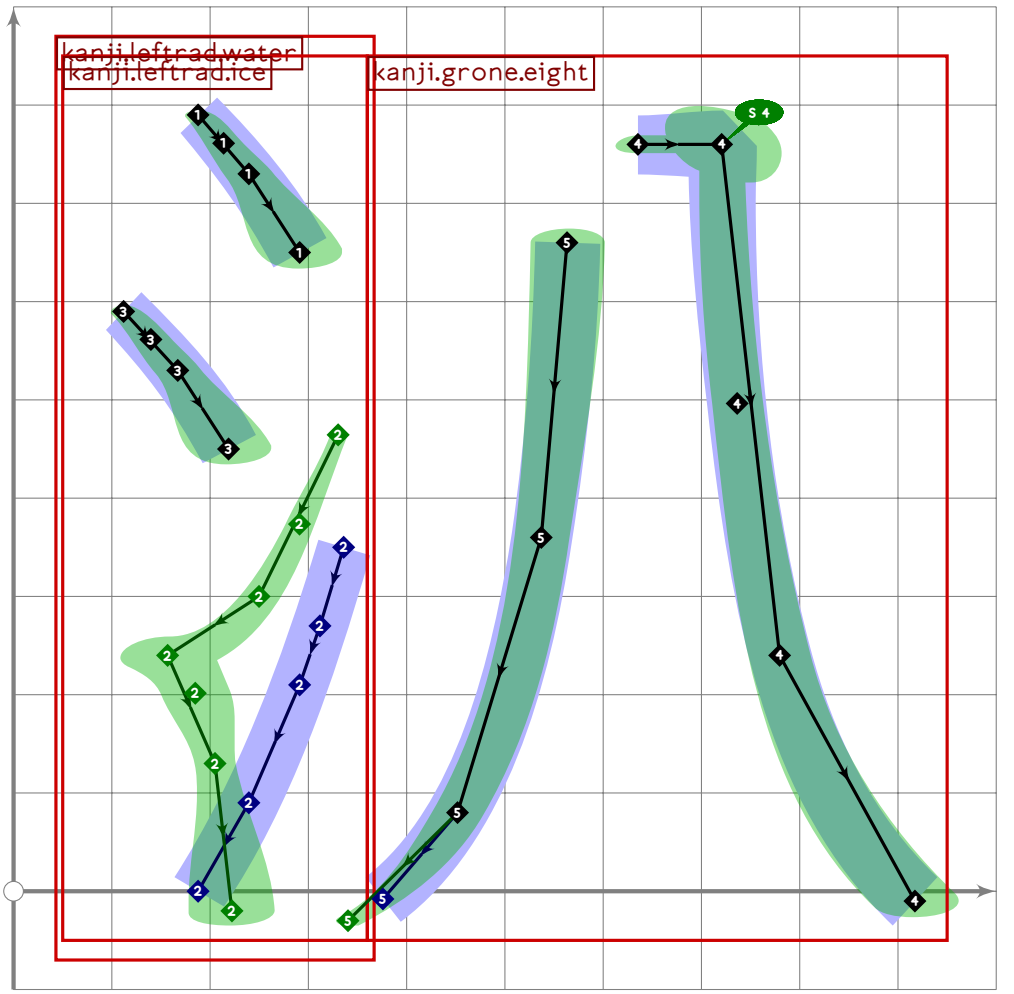

```
% extra
begintsuglyph("uni6C3B",59);
  build_kanji.lr(360,0)
    (kanji.leftrad.water)
    (kanji.grone.power);
  tsu_render;
endtsuglyph;
```



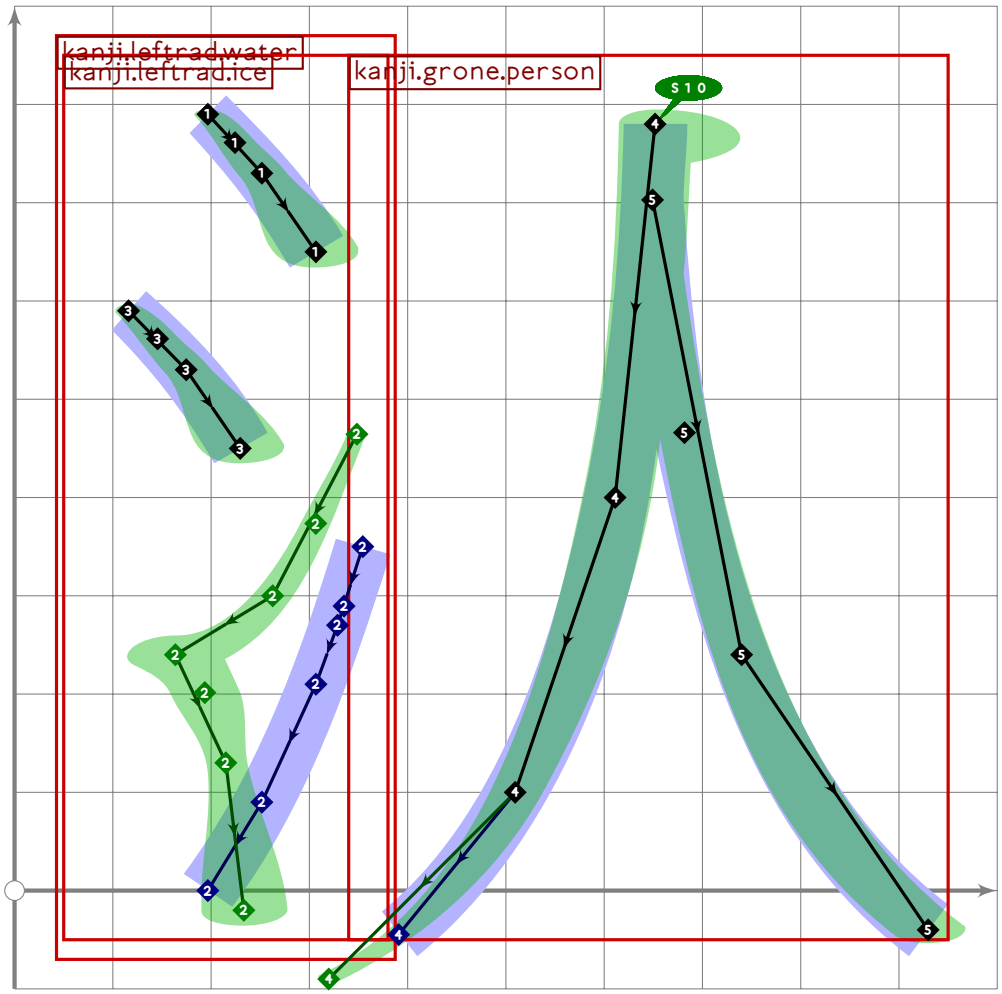

```
% extra
begintsuglyph("uni6C3F",63);
  build_kanji.lr(360,0)
    (kanji.leftrad.water)
    (kanji.grone.nine);
  tsu_render;
endtsuglyph;

% tei/migiwa "shore"
begintsuglyph("uni6C40",64);                                [see page 2374]
  kanji.grnine.shore;
  tsu_render;
endtsuglyph;

% juu/shiru "juice" or "soup"
begintsuglyph("uni6C41",65);                                [see page 2372]
  kanji.greight.juice;
  tsu_render;
endtsuglyph;

% gyuu/moto "request"
```

```
400 begintsuglyph("uni6C42",66);
401   kanji.grfour.request;
402   tsu_render;
403 endtsuglyph;
404
```

[see page 629]

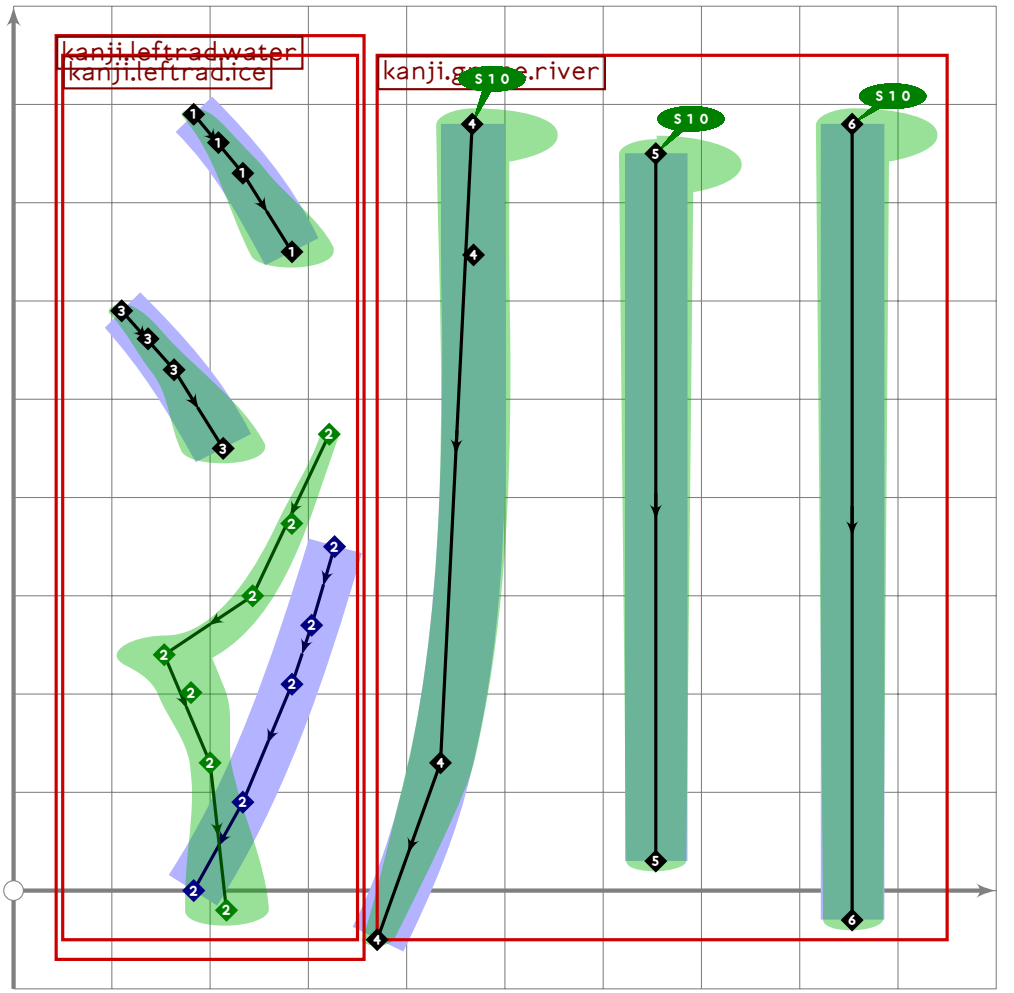



```
405 % extra
406 begintsuglyph("uni6C43",67);
407   build_kanji.lr(360,0)
408     (kanji.leftrad.water)
409     (kanji.grone.eight);
410   tsu_render;
411 endtsuglyph;
412
```

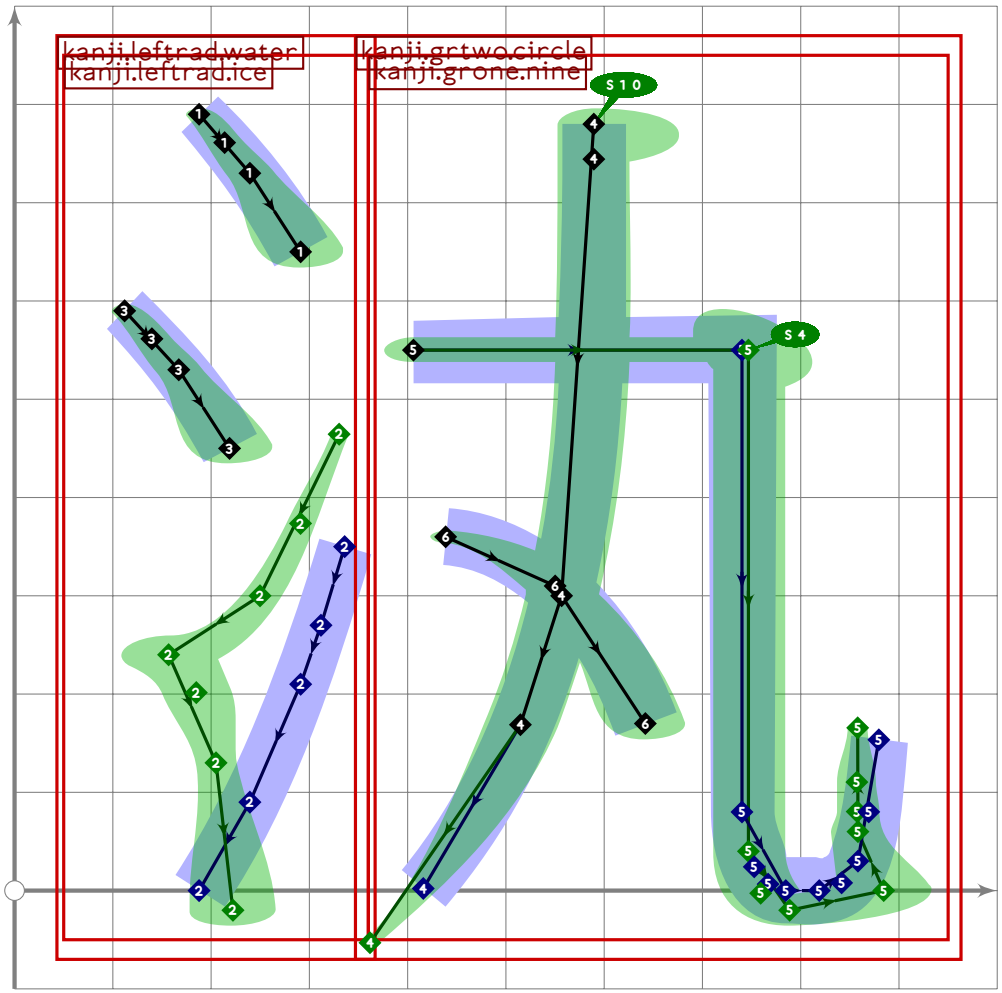



```
% extra
begintsuglyph("uni6C44",68);
  build_kanji.lr(360,40)
    (kanji.leftrad.water)
    (kanji.grone.person);
  tsu_render;
endtsuglyph;

```

U+6C4C
tsuku.uni6C4C

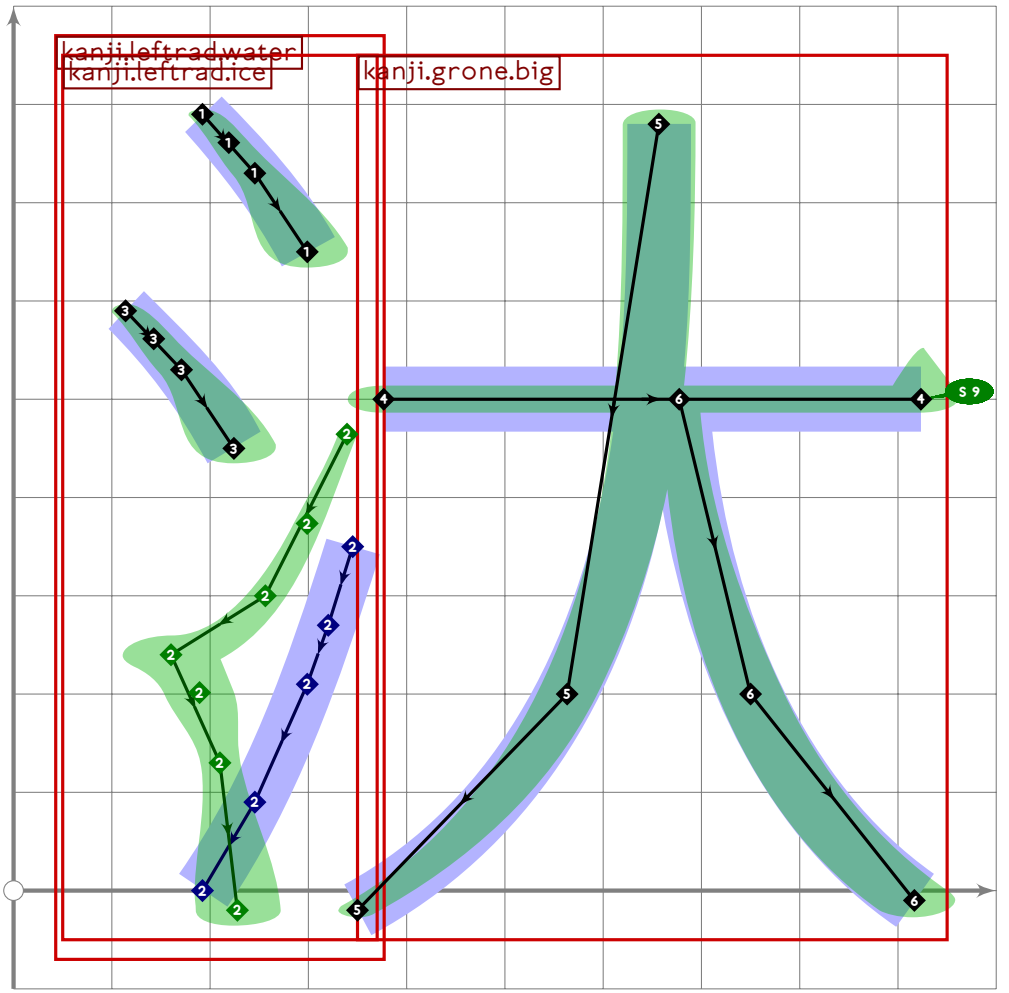



```
% extra
begintsuglyph("uni6C4C",76);
  build_kanji.lr(360,-20)
    (kanji.leftrad.water)
    (kanji.grone.river);
  tsu_render;
endtsuglyph;

```



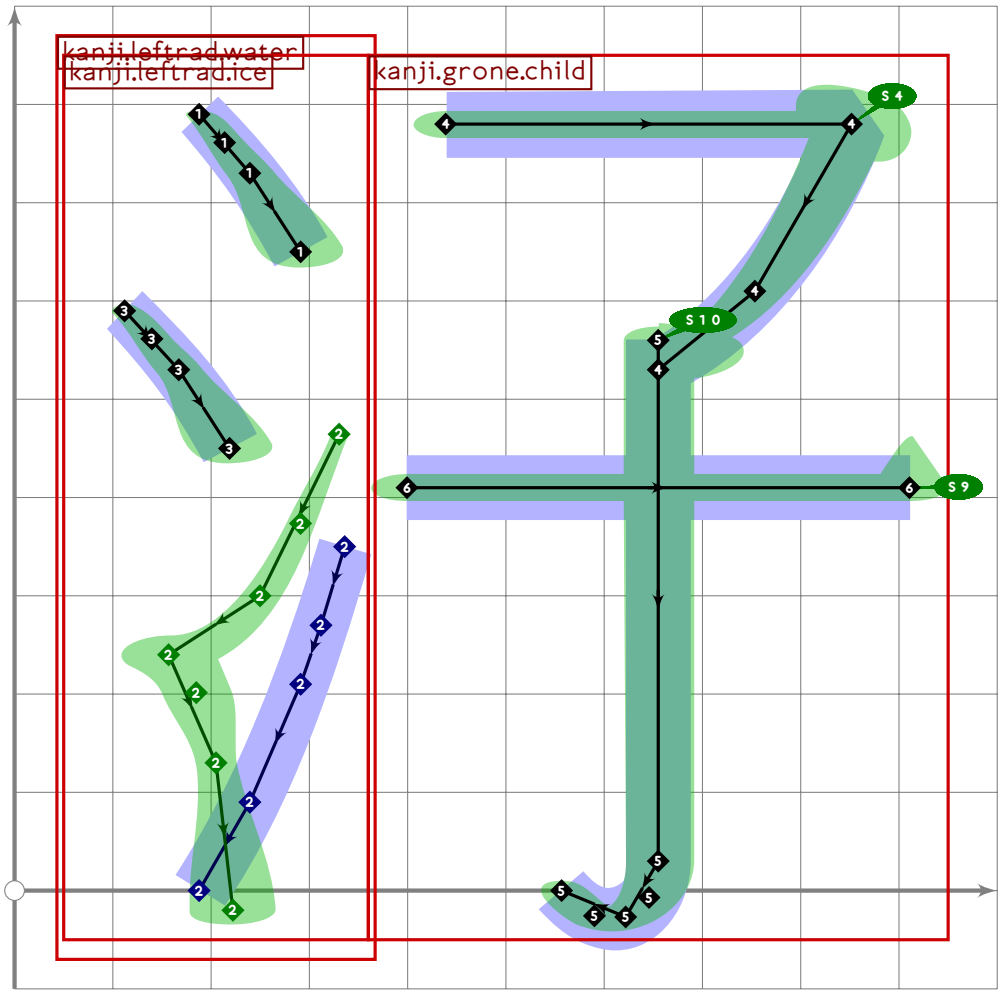

```
% extra
begintsuglyph("uni6C4D",77);
  build_kanji.lr(360,0)
    (kanji.leftrad.water)
    (kanji.grtwo.circle);
  tsu_render;
endtsuglyph;

```

U+6C4F
tsuku.uni6C4F



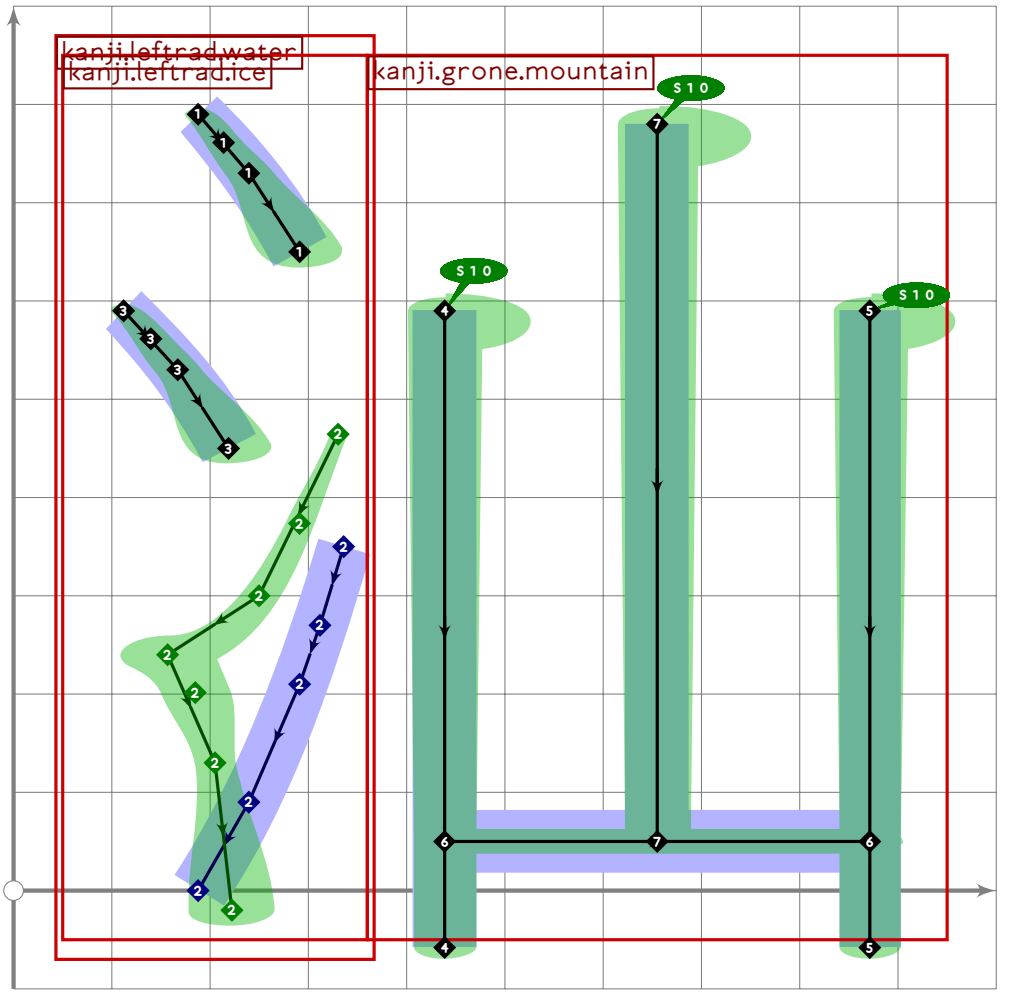

```
% extra
begintsuglyph("uni6C4F",79);
  build_kanji.lr(360,20)
    (kanji.leftrad.water)
    (kanji.grone.big);
  tsu_render;
endtsuglyph;

% seki/shio "tide"
begintsuglyph("uni6C50",80);
  kanji.grnine.tide;
  tsu_render;
endtsuglyph;

```

[see page 2376]

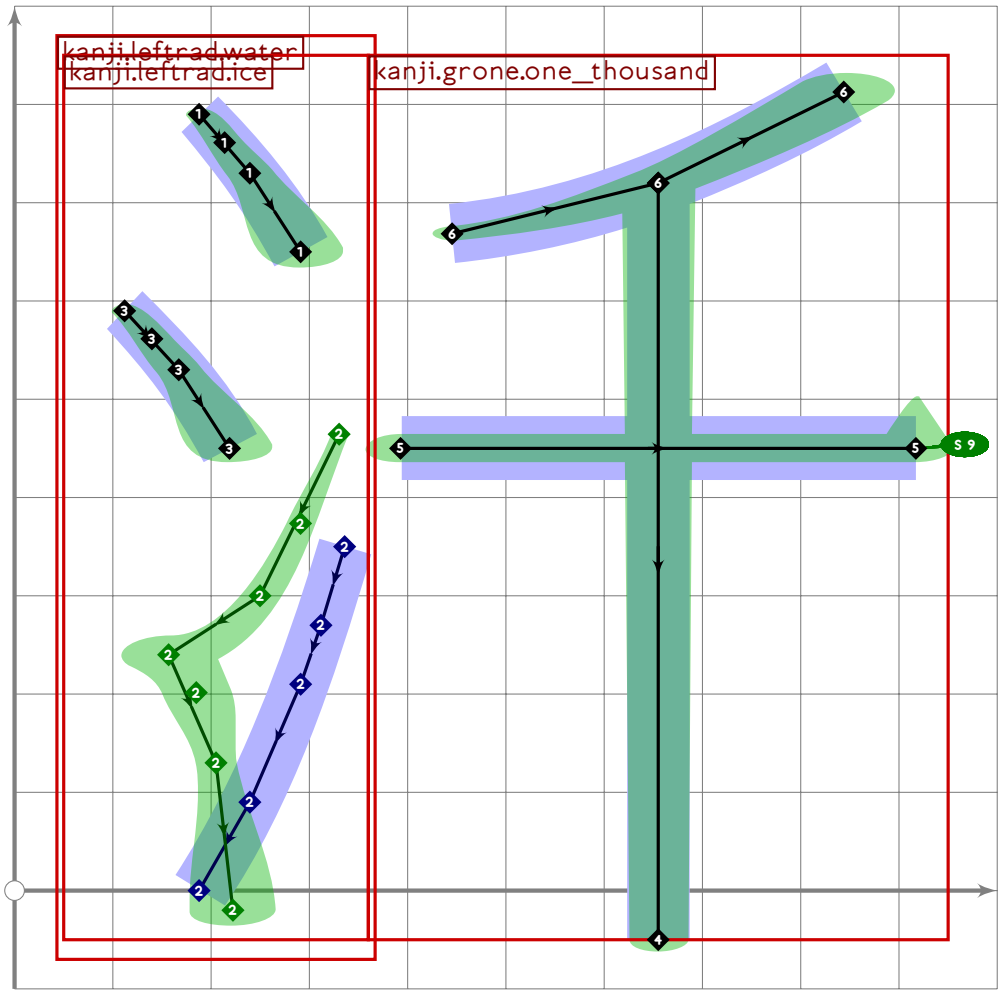



```
% extra
begintsuglyph("uni6C53",83);
  build_kanji.lr(360,0)
    (kanji.leftrad.water)
    (kanji.grone.child);
  tsu_render;
endtsuglyph;

```

U+6C55
tsuku.uni6C55



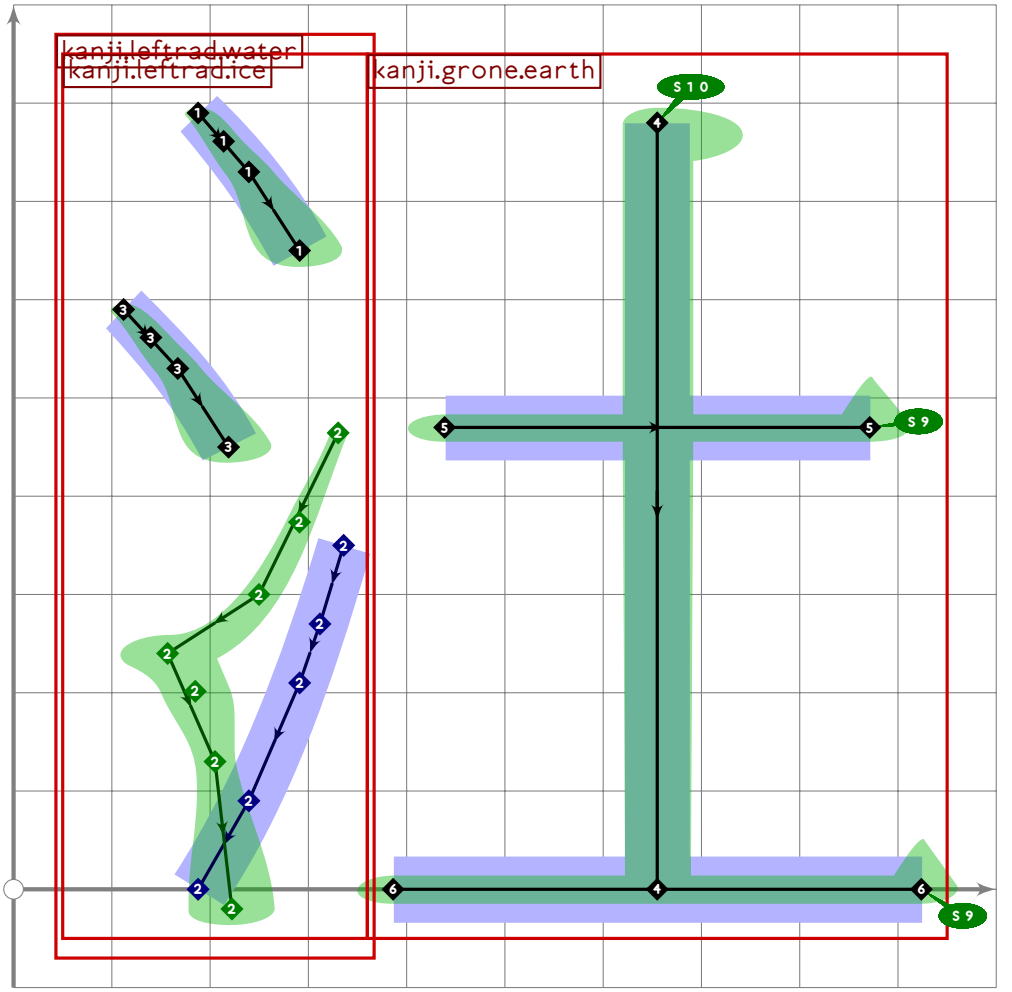

```
% extra "fish swimming"
begintsuglyph("uni6C55",85);
  build_kanji.lr(360,0)
    (kanji.leftrad.water)
    (kanji.grone.mountain);
  tsu_render;
endtsuglyph;

```



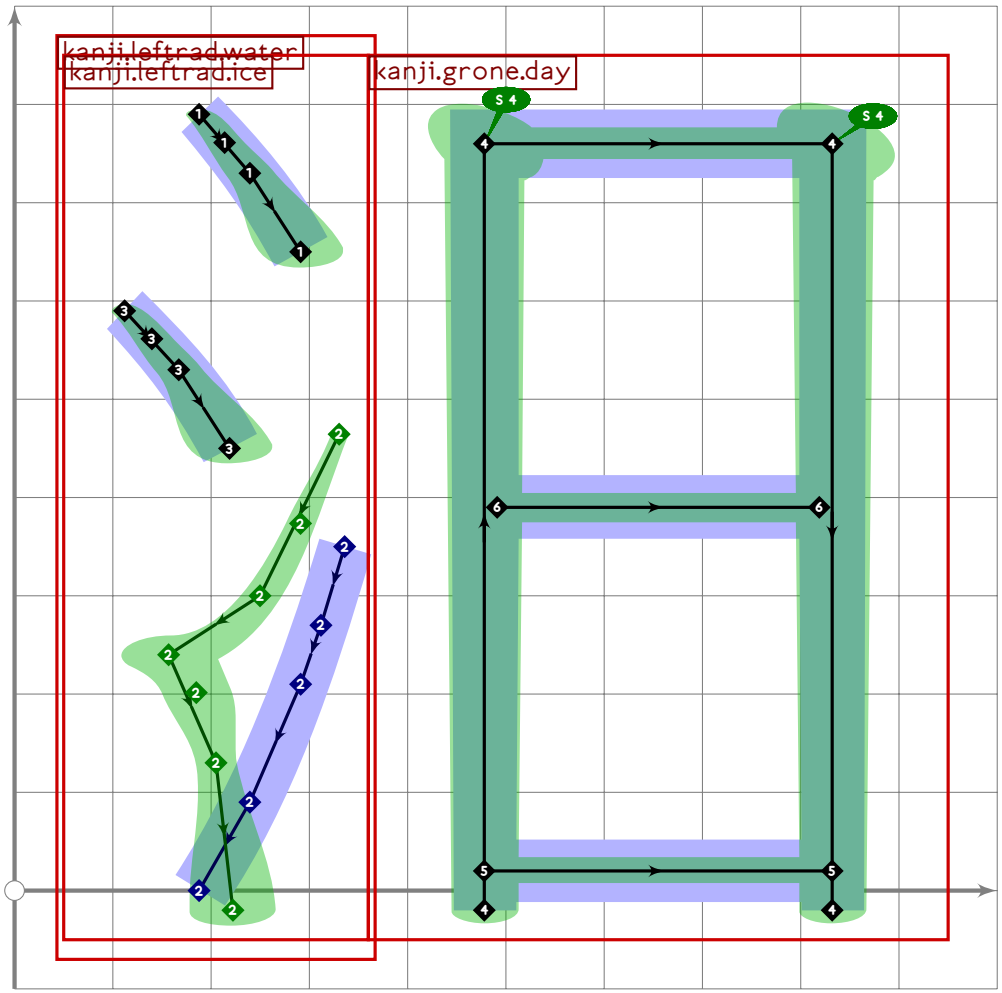

```
% extra
begintsuglyph("uni6C58",88);
  build_kanji.lr(360,0)
    (kanji.leftrad.water)
    (kanji.grone.one_thousand);
  tsu_render;
endtsuglyph;

% jo/nanji "thou"
begintsuglyph("uni6C5D",93);                                  [see page 2375]
  kanji.grnine.thou;
  tsu_render;
endtsuglyph;

% kou/e "bay" ("e" in "Edo")
begintsuglyph("uni6C5F",95);                                  [see page 2370]
  kanji.greight.bay;
  tsu_render;
endtsuglyph;

% chi/ike "pond"
```

```
488 begintsuglyph("uni6C60",96);
489   kanji.grtwo.pond;
490   tsu_render;
491 endtsuglyph;
492
```

[see page 2355]

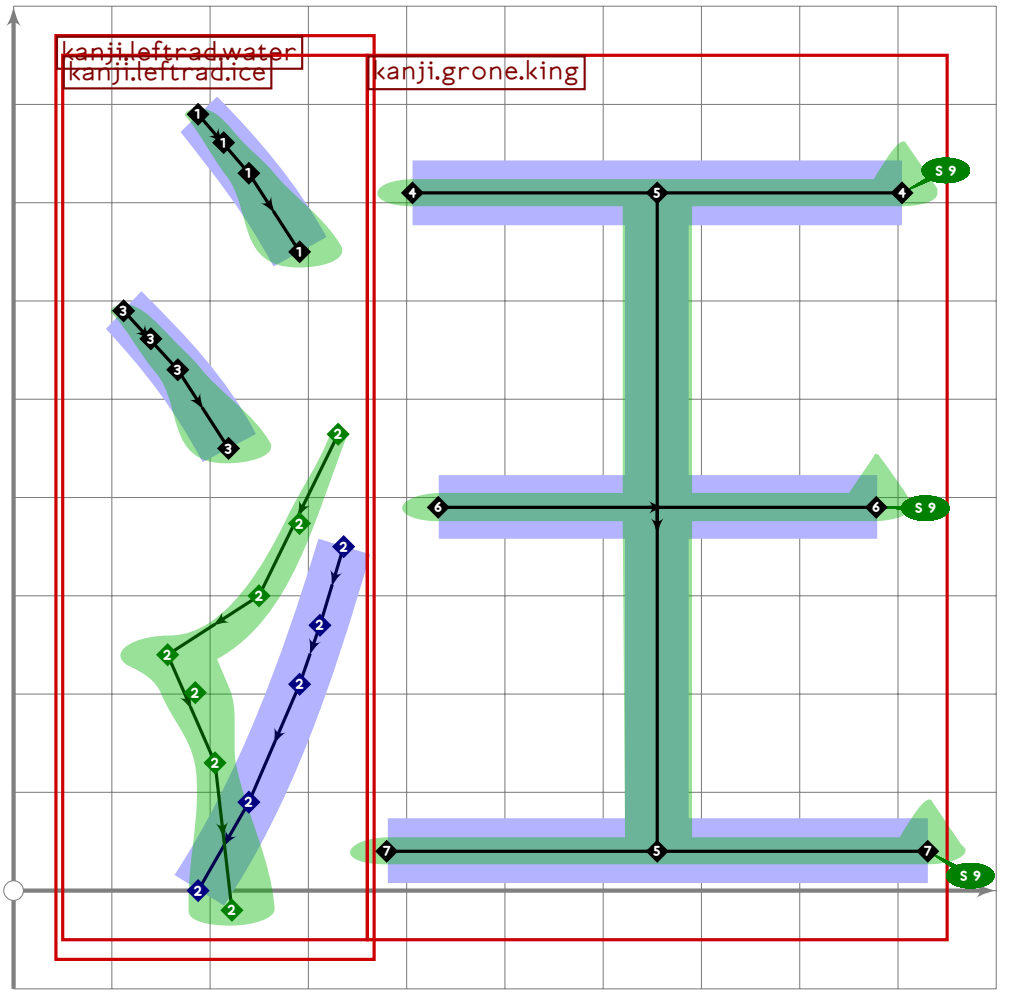



```
493 % extra
494 begintsuglyph("uni6C62",98);
495   build_kanji.lr(360,0)
496     (kanji.leftrad.water)
497     (kanji.grone.earth);
498   tsu_render;
499 endtsuglyph;
500
```

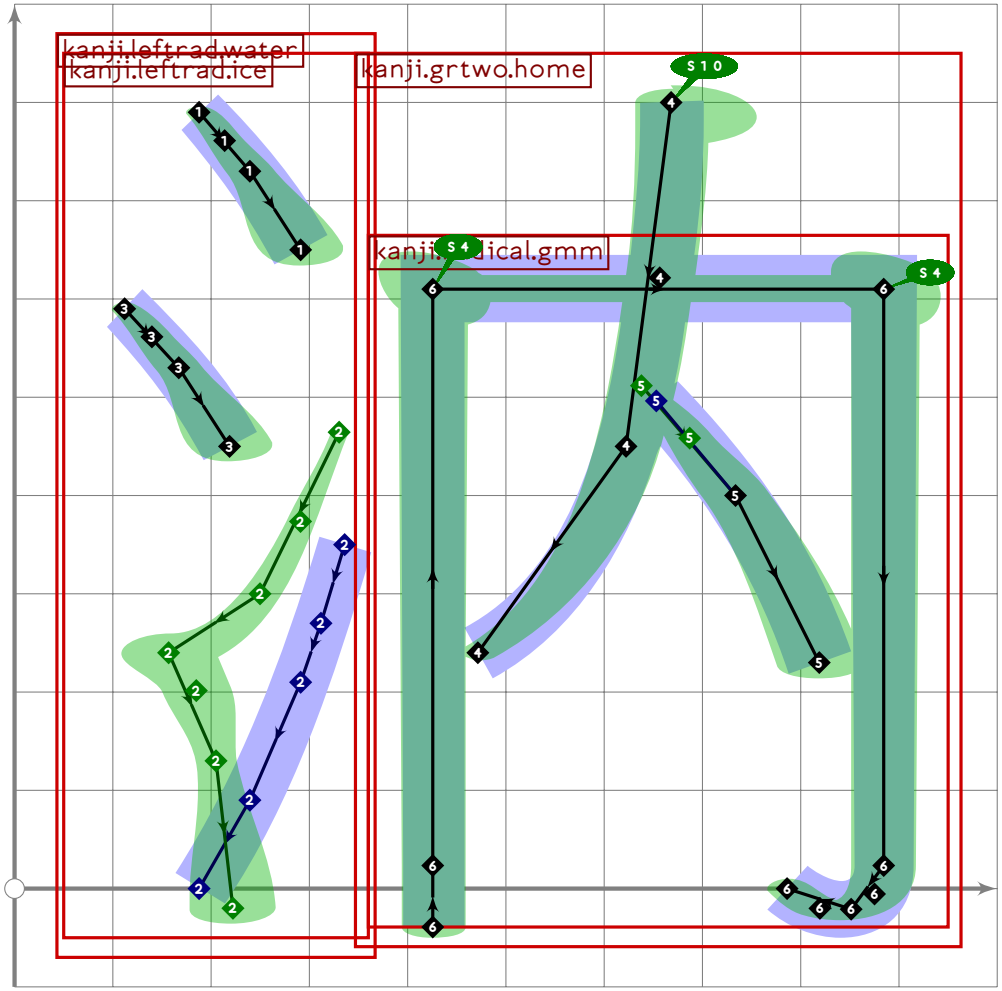



```
% extra
begintsuglyph("uni6C68",104);
  build_kanji.lr(360,0)
    (kanji.leftrad.water)
    (kanji.grone.day);
  tsu_render;
endtsuglyph;

```

U+6C6A
tsuku.uni6C6A



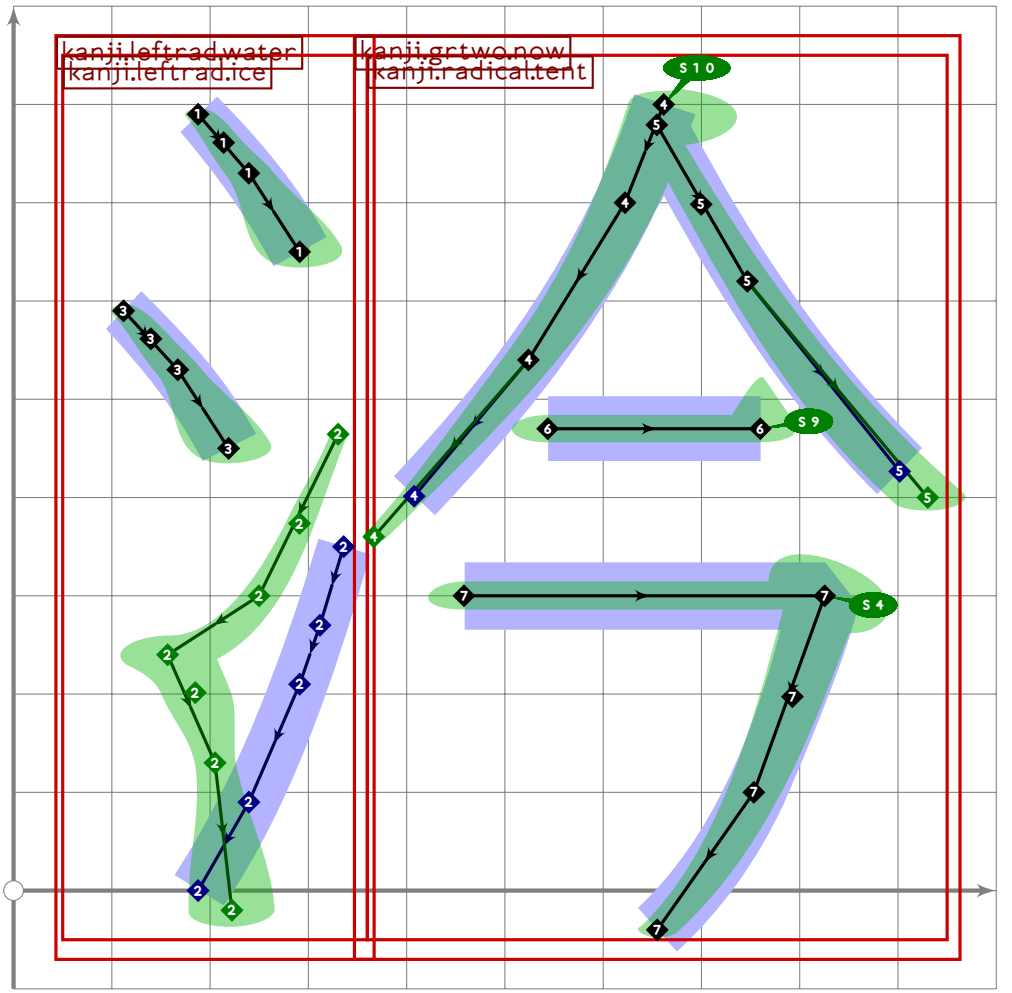

```
% extra
begintsuglyph("uni6C6A",106);
  build_kanji.lr(360,0)
    (kanji.leftrad.water)
    (kanji.grone.king);
  tsu_render;
endtsuglyph;

```



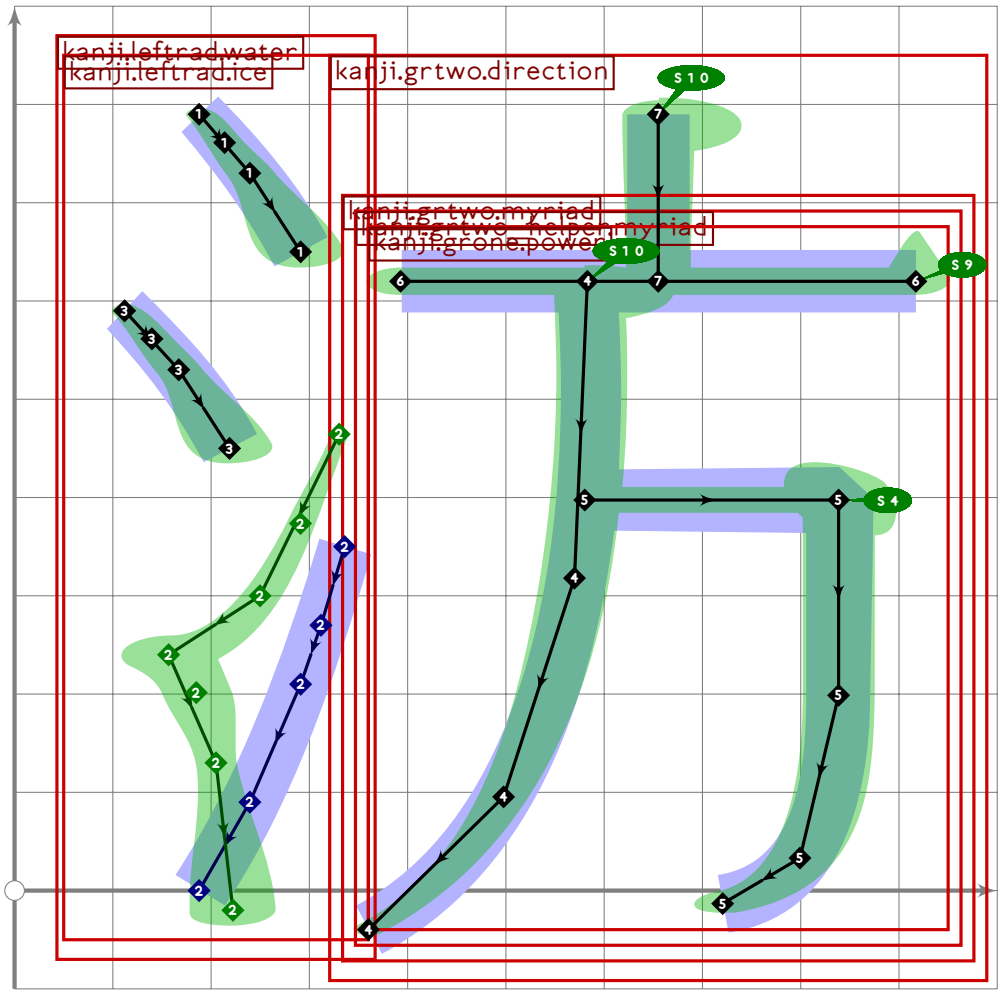

```
% extra
begintsuglyph("uni6C6D",109);
  build_kanji.lr(360,0)
    (kanji.leftrad.water)
    (kanji.grtwo.home);
  tsu_render;
endtsuglyph;

% ta/ogo "luxury"
begintsuglyph("uni6C70",112);
  kanji.grnine.luxury;
  tsu_render;
endtsuglyph;

```

[see page 2373]

U+6C75
tsuku.uni6C75



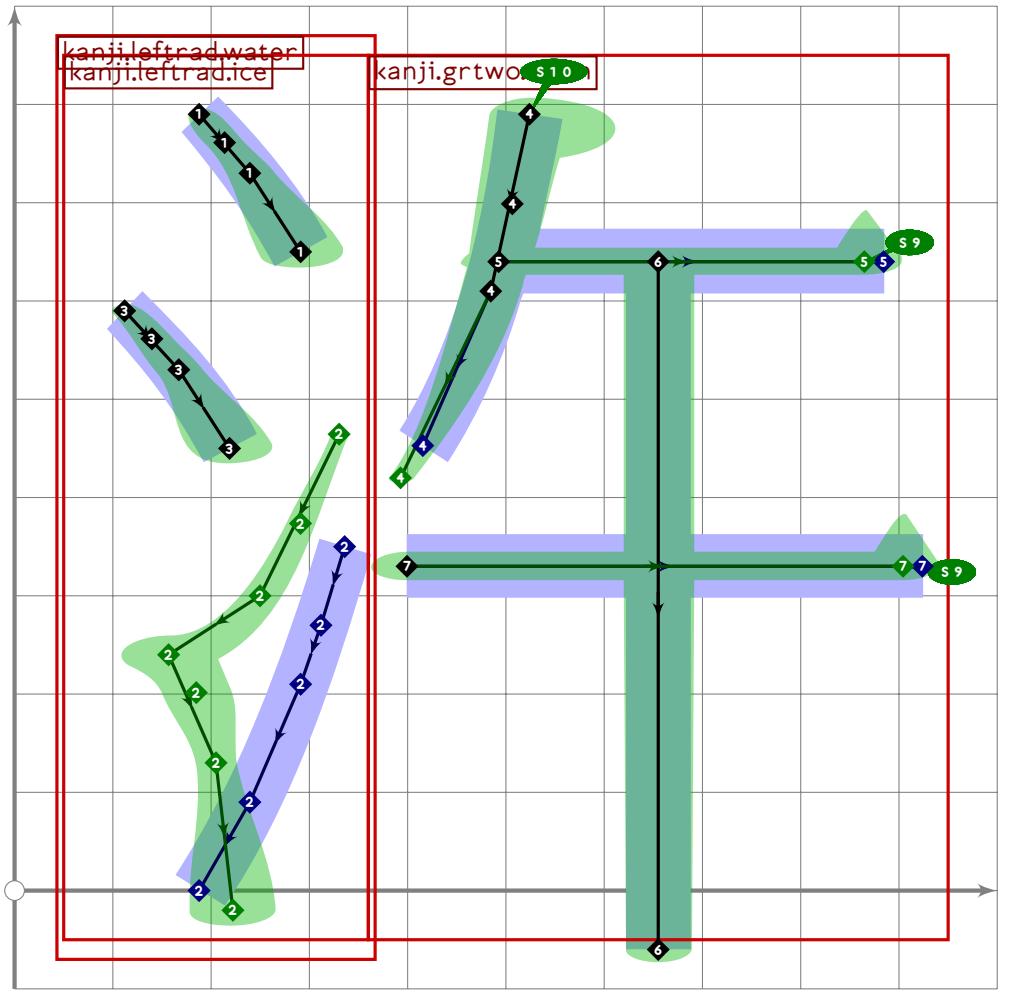

```
% extra
begintsuglyph("uni6C75",117);
  build_kanji.lr(360,0)
    (kanji.leftrad.water)
    (kanji.grtwo.now);
  tsu_render;
endtsuglyph;

```




```
% extra
begintsuglyph("uni6C78",120);
  build_kanji.lr(360,0)
    (kanji.leftrad.water)
    (kanji.grtwo.direction);
  tsu_render;
endtsuglyph;

% ketsu/ki "decide"
begintsuglyph("uni6C7A",122);
  kanji.grthree.decide;
  tsu_render;
endtsuglyph;
```

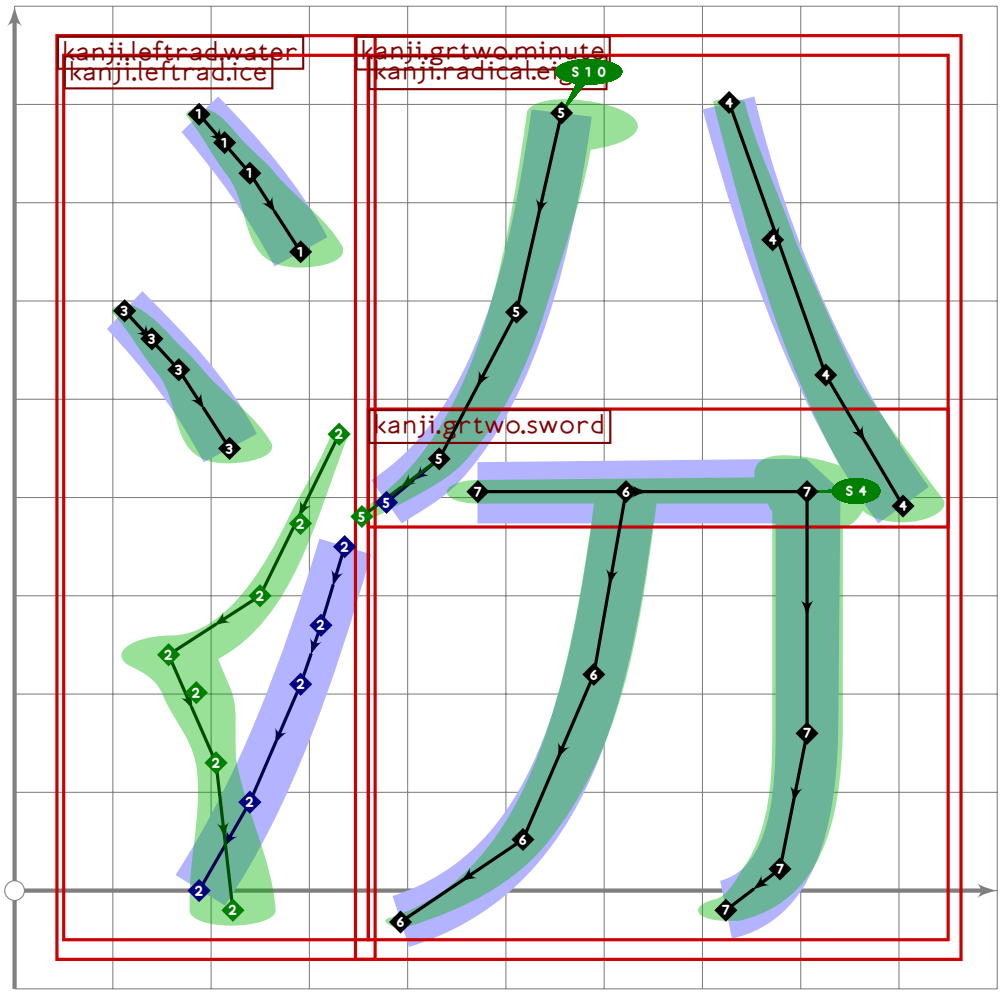
[see page 2357]

U+6C7B
tsuku.uni6C7B




```
553 % extra
554 begintsuglyph("uni6C7B",123);
555   build_kanji.lr(360,0)
556     (kanji.leftrad.water)
557     (kanji.grtwo.noon);
558   tsu_render;
559 endtsuglyph;
560
561 % ki "steam"
562 begintsuglyph("uni6C7D",125);
563   kanji.grtwo.steam;
564   tsu_render;
565 endtsuglyph;
566
```

[see page 2356]

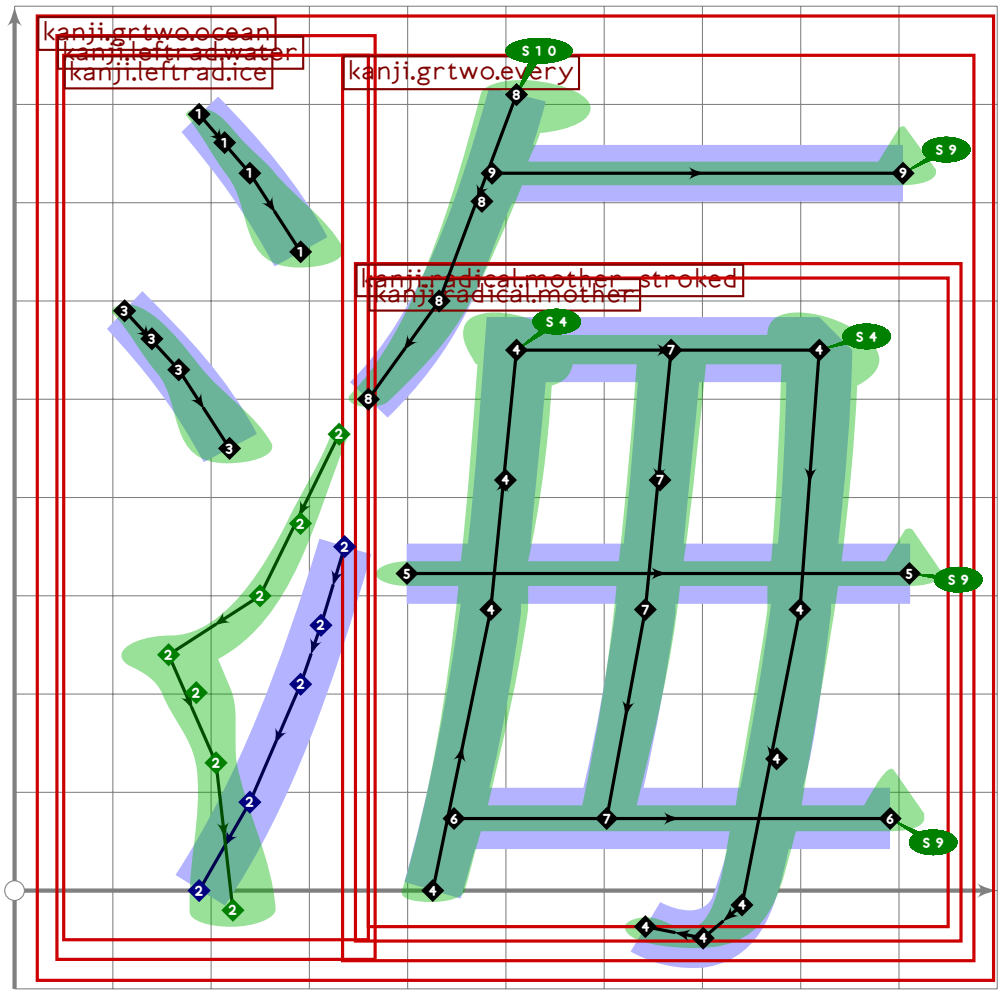



```
% extra "name of a Chinese river"
begintsuglyph("uni6C7E",126);
  build_kanji.lr(360,0)
    (kanji.leftrad.water)
    (kanji.grtwo.minute);
  tsu_render;
endtsuglyph;

% you/soso "fertility"
begintsuglyph("uni6C83",131);                                  [see page 2371]
  kanji.greight.fertility;
  tsu_render;
endtsuglyph;

% ka/kawa "river"
begintsuglyph("uni6CB3",179);                                  [see page 2367]
  kanji.grfive.river;
  tsu_render;
endtsuglyph;

% yu/abura "oil"
```

```
begintsuglyph("uni6CB9",185);                                    [see page 2359]
  kanji.grthree.oil;
  tsu_render;
endtsuglyph;

% ji/osa "cure"
begintsuglyph("uni6CBB",187);                                    [see page 2363]
  kanji.grfour.cure;
  tsu_render;
endtsuglyph;

% en/so "along"
begintsuglyph("uni6CBF",191);                                    [see page 2369]
  kanji.grsix.along;
  tsu_render;
endtsuglyph;

% sen/izumi "spring" or "fountain" (not the season)
begintsuglyph("uni6CC9",201);                                     [see page 656]
  kanji.grsix.fountain;
  tsu_render;
endtsuglyph;

% hou/nori "law"
begintsuglyph("uni6CD5",213);                                    [see page 2364]
  kanji.grfour.law;
  tsu_render;
endtsuglyph;

% ha/nami "wave" (or Poland)
begintsuglyph("uni6CE2",226);                                    [see page 2362]
  kanji.grthree.wave;
  tsu_render;
endtsuglyph;

% kyuu/na "weep"
begintsuglyph("uni6CE3",227);                                    [see page 2366]
  kanji.grfour.weep;
  tsu_render;
endtsuglyph;

% chuu/soso "pour"
begintsuglyph("uni6CE8",232);                                    [see page 2360]
  kanji.grthree.pour;
  tsu_render;
endtsuglyph;

% ei/oyo "swim"
```

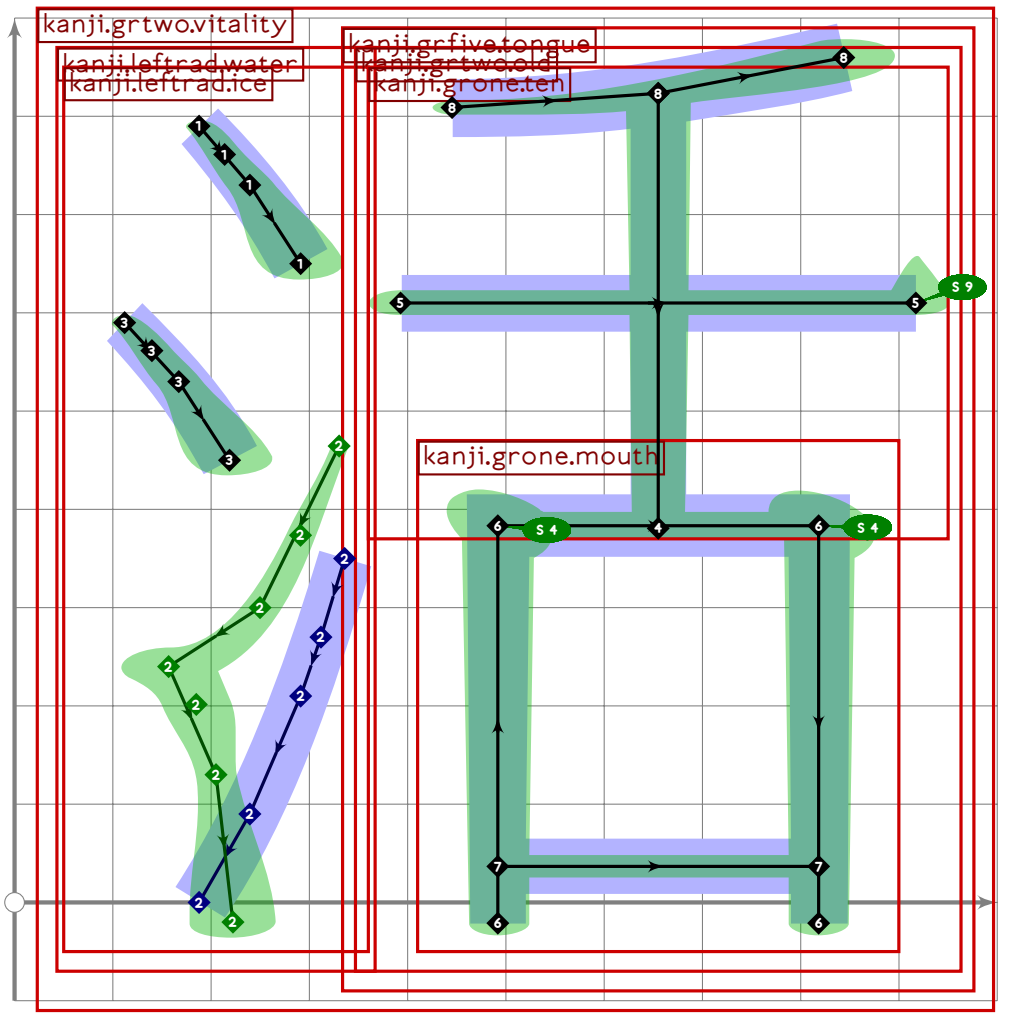
```
begintsuglyph("uni6CF3",243);                                  [see page 2361]
  kanji.grthree.swim;
  tsu_render;
endtsuglyph;

---

endfont;

---
```

```
%
% Unicode page 6D (Kanji) for Tsukurimashou
% Copyright (C) 2011, 2012, 2013 Matthew Skala
%
[Standard copyright notice]

---

beginfont

% AUTODEPS
input bottomrad.mp;
input buildkanji.mp;
input gradeeight.mp;
input gradefive.mp;
input gradefour.mp;
input gradenine.mp;
input gradeone.mp;
input gradethree.mp;
input gradetwo.mp;
input leftrad.mp;
input radical.mp;
input rare.mp;
input toprad.mp;

do_late_includes;

---
```

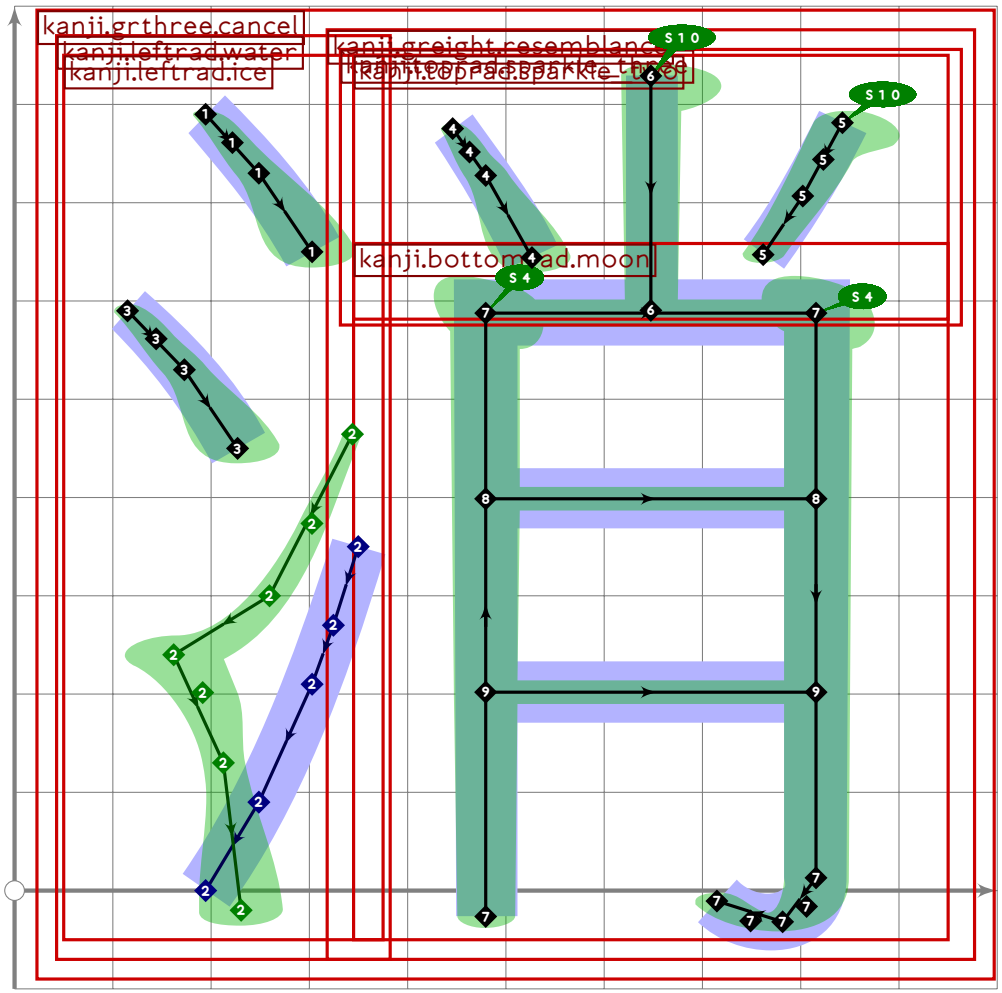



```
53
54 vardef kanji.grtwo.ocean =
55   push_pbox_toexpand("kanji.grtwo.ocean");
56   build_kanji.lr(360,0)
57     (kanji.leftrad.water)
58     (kanji.grtwo.every);
59   expand_pbox;
60 enddef;
```

U+6D3B
tsuku.uni6D3B

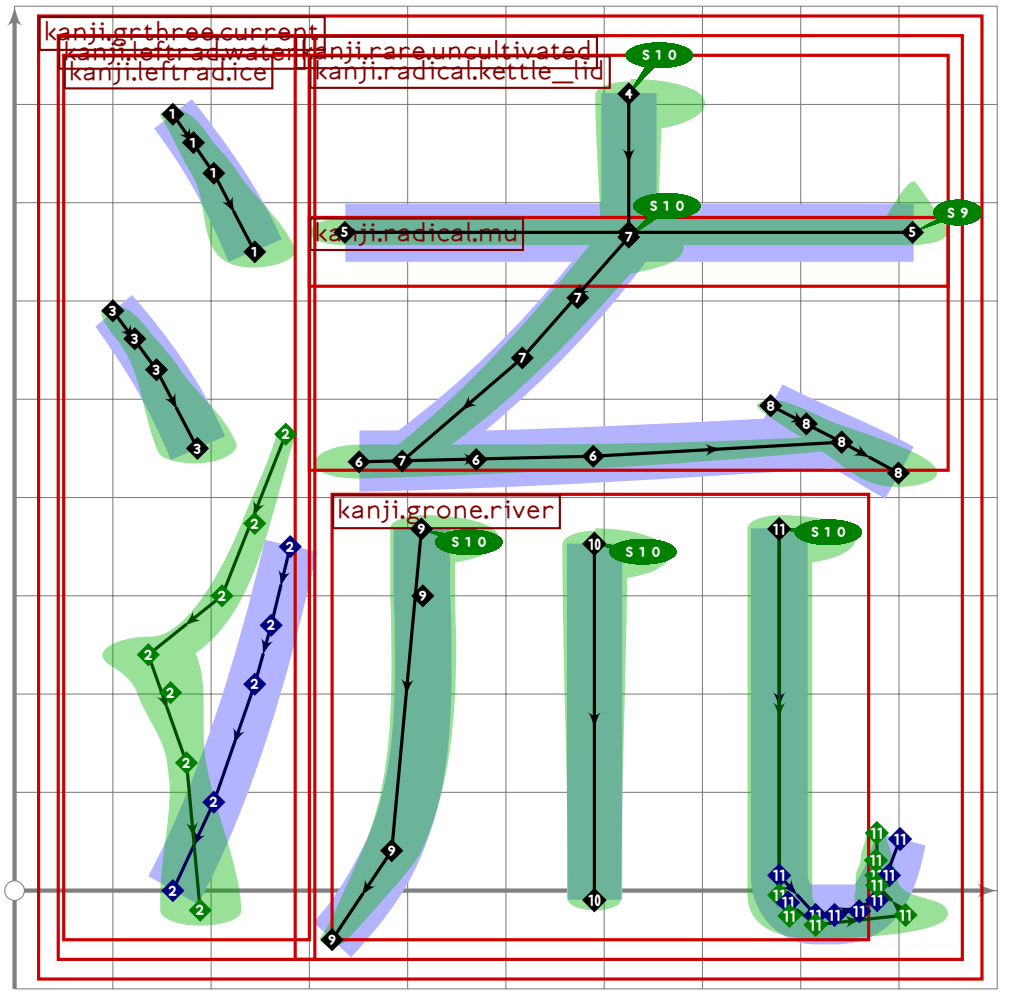



```
61
62 vardef  kanji.grtwo.vitality =
63   push_pbox_toexpand("kanji.grtwo.vitality");
64   build_kanji.lr(360,0)
65     (kanji.leftrad.water)
66     (kanji.grfive.tongue);
67   expand_pbox;
68 enddef;
69
70 ---------------------------------------------------------------------------
```



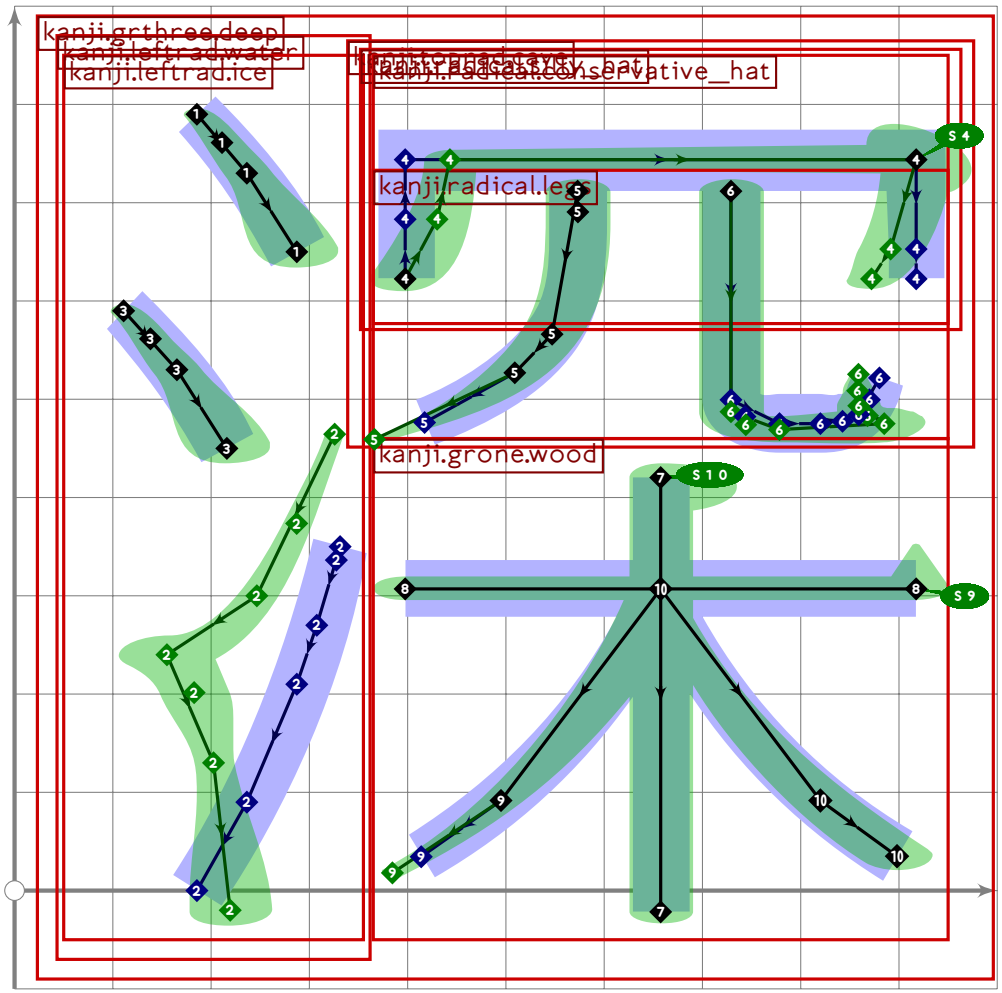

```
71
72 vardef kanji.grthree.cancel =
73   push_pbox_toexpand("kanji.grthree.cancel");
74   build_kanji.lr(360,30)
75     (kanji.leftrad.water)
76     (kanji.greight.resemblance);
77   expand_pbox;
78 enddef;
```

U+6D41
tsuku.uni6D41



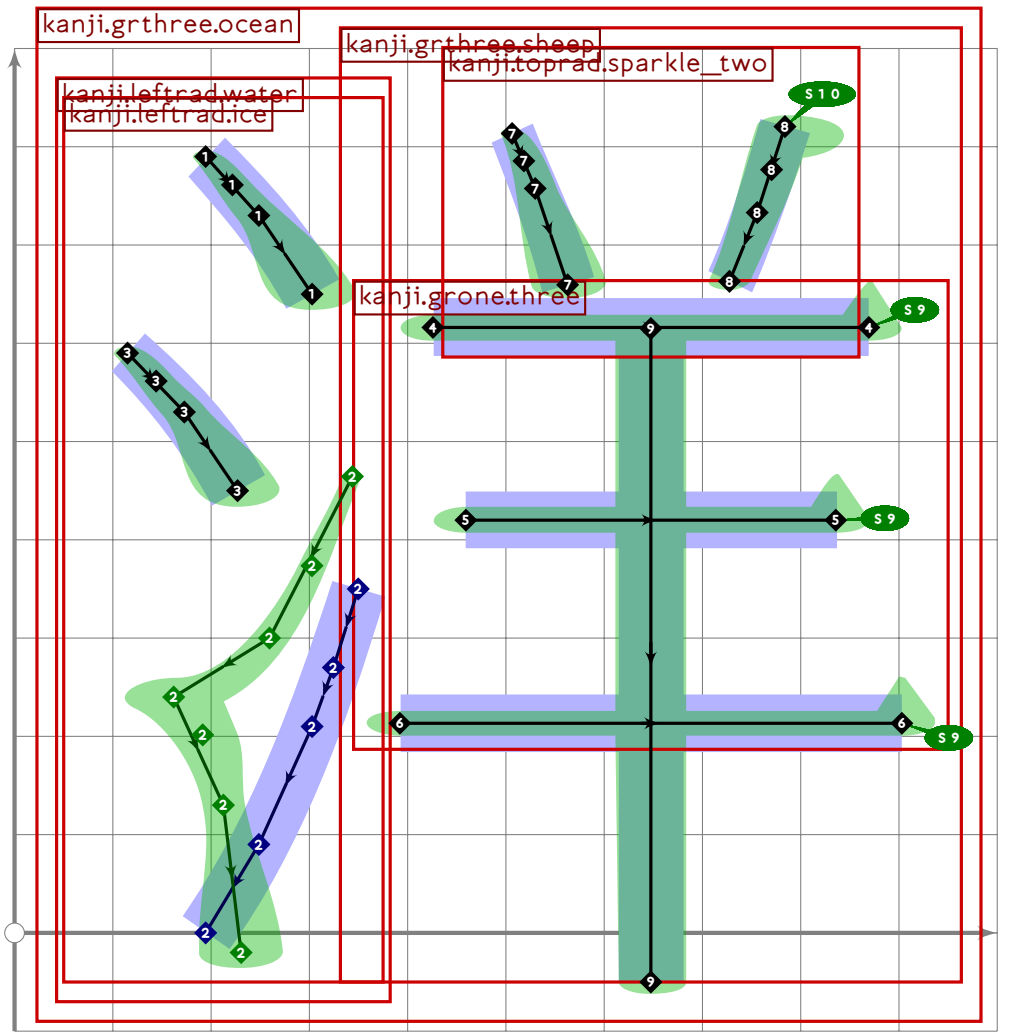
6D

```
79
80 vardef kanji.grthree.current =
81   push_pbox_toexpand("kanji.grthree.current");
82   build_kanji.lr(300,0)
83     (kanji.leftrad.water)
84     (kanji.rare.uncultivated);
85   expand_pbox;
86 enddef;
```



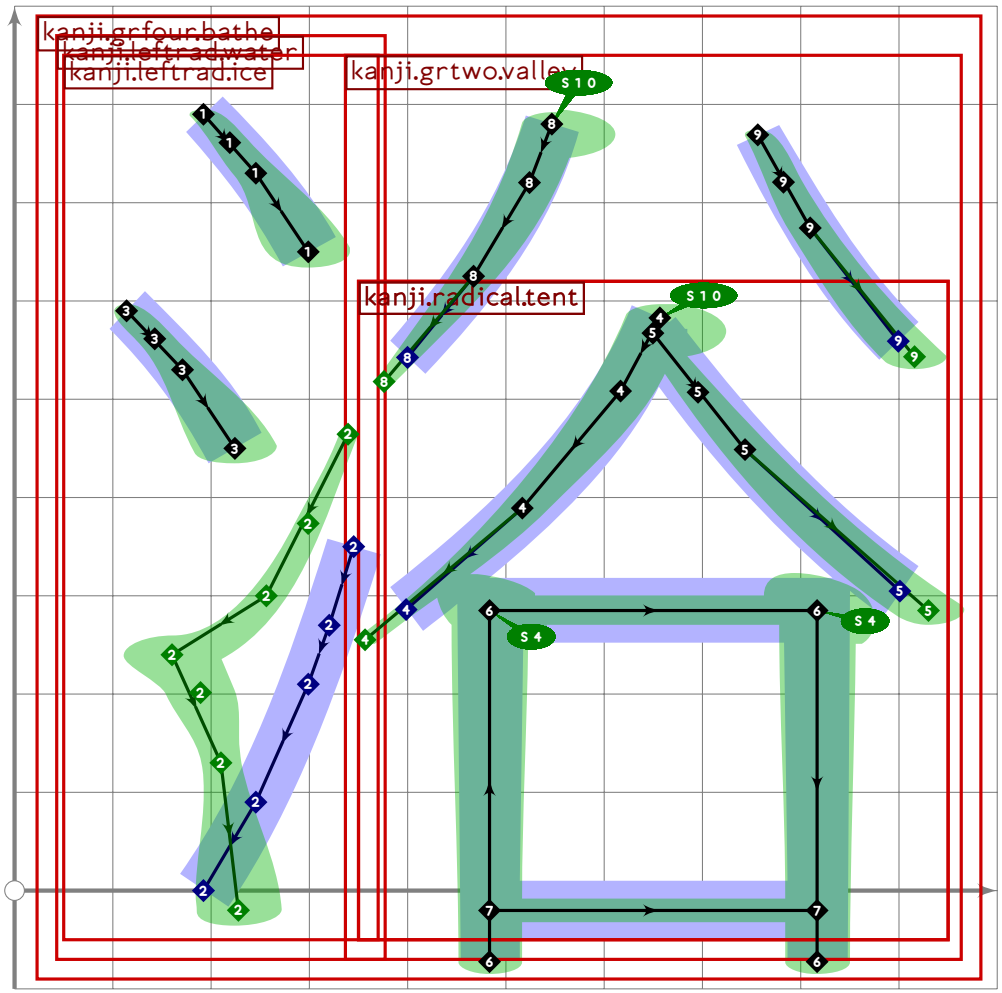

```
vardef kanji.grthree.deep =
  push_pbox_toexpand("kanji.grthree.deep");
  build_kanji.lr(360,-10)
    (kanji.leftrad.water)
    (build_kanji.level(build_kanji.tb(460,0)
        (kanji.toprad.cave;
         set_bosize(-3,0))
        (kanji.grone.wood)));
  expand_pbox;
enddef;
```

U+6D0B
tsuku.uni6D0B

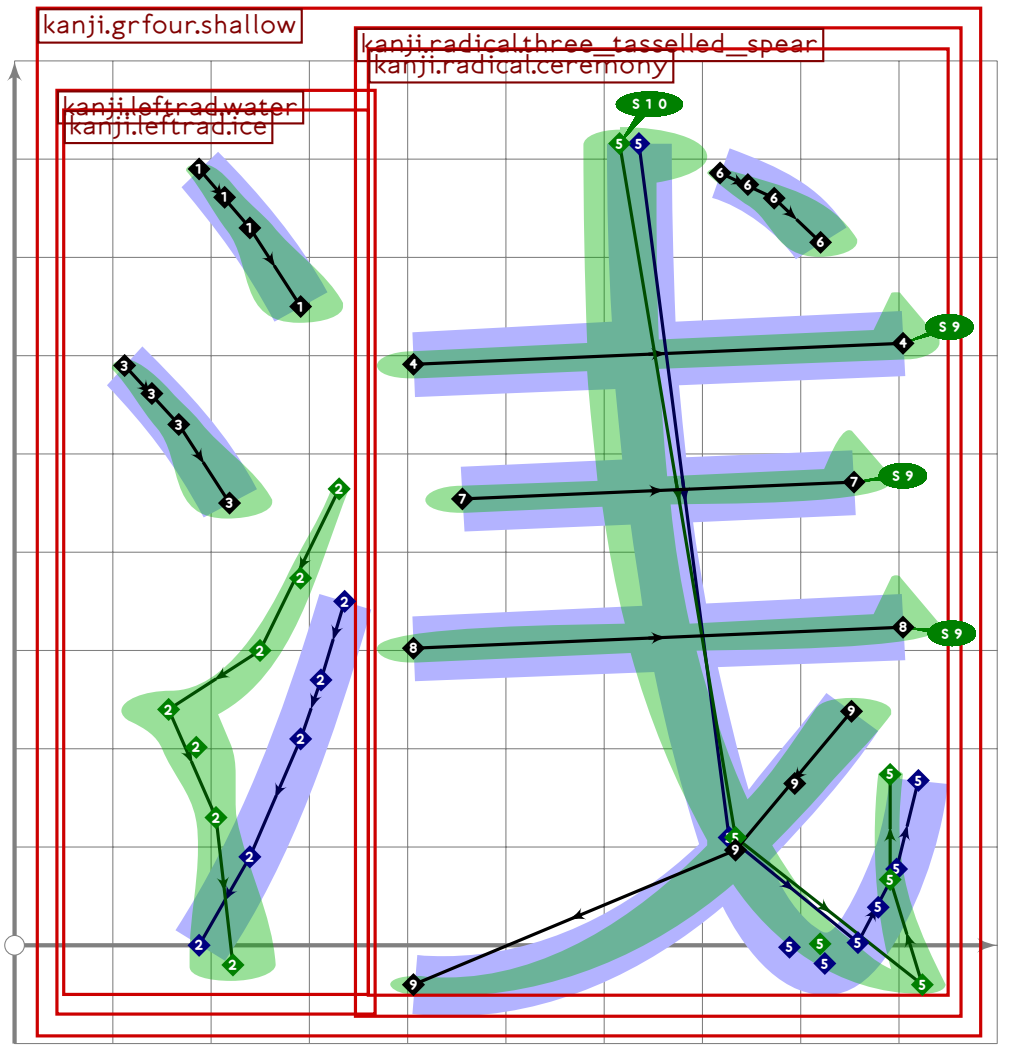


6D

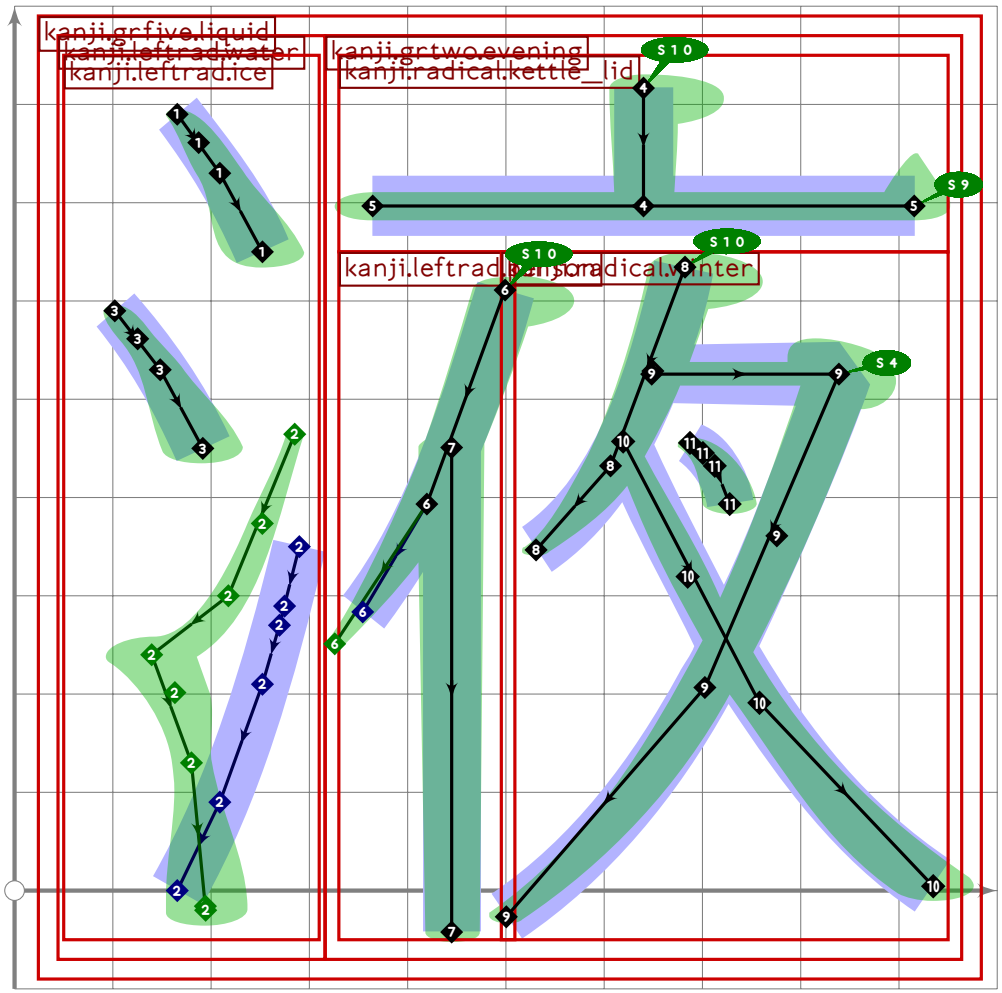
```
vardef kanji.grthree.ocean =
  push_pbox_toexpand("kanji.grthree.ocean");
  build_kanji.lr(360,30)
    (kanji.leftrad.water)
    (kanji.grthree.sheep);
  expand_pbox;
enddef;
```




```
108
109 vardef  kanji.grfour.bathe =
110   push_pbox_toexpand("kanji.grfour.bathe");
111   build_kanji.lr(360,20)
112     (kanji.leftrad.water)
113     (kanji.grtwo.valley);
114   expand_pbox;
115 enddef;
```

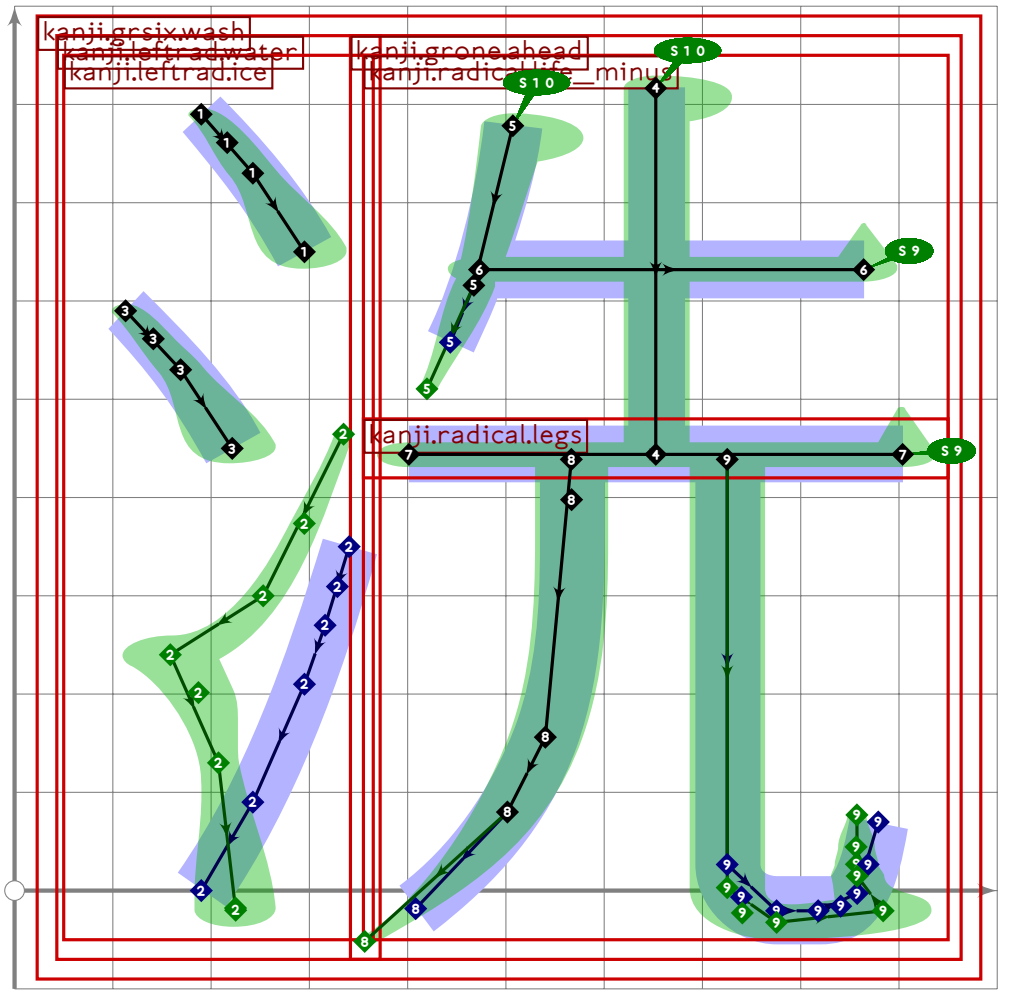



```
116
117 vardef kanji.grfour.shallow =
118   push_pbox_toexpand("kanji.grfour.shallow");
119   build_kanji.lr(360,0)
120     (kanji.leftrad.water)
121     (build_kanji.sscale(yscaled 1.07 shifted (0,30))
122         (kanji.radical.three_tasselled_spear));
123   expand_pbox;
124 enddef;
125
126
```

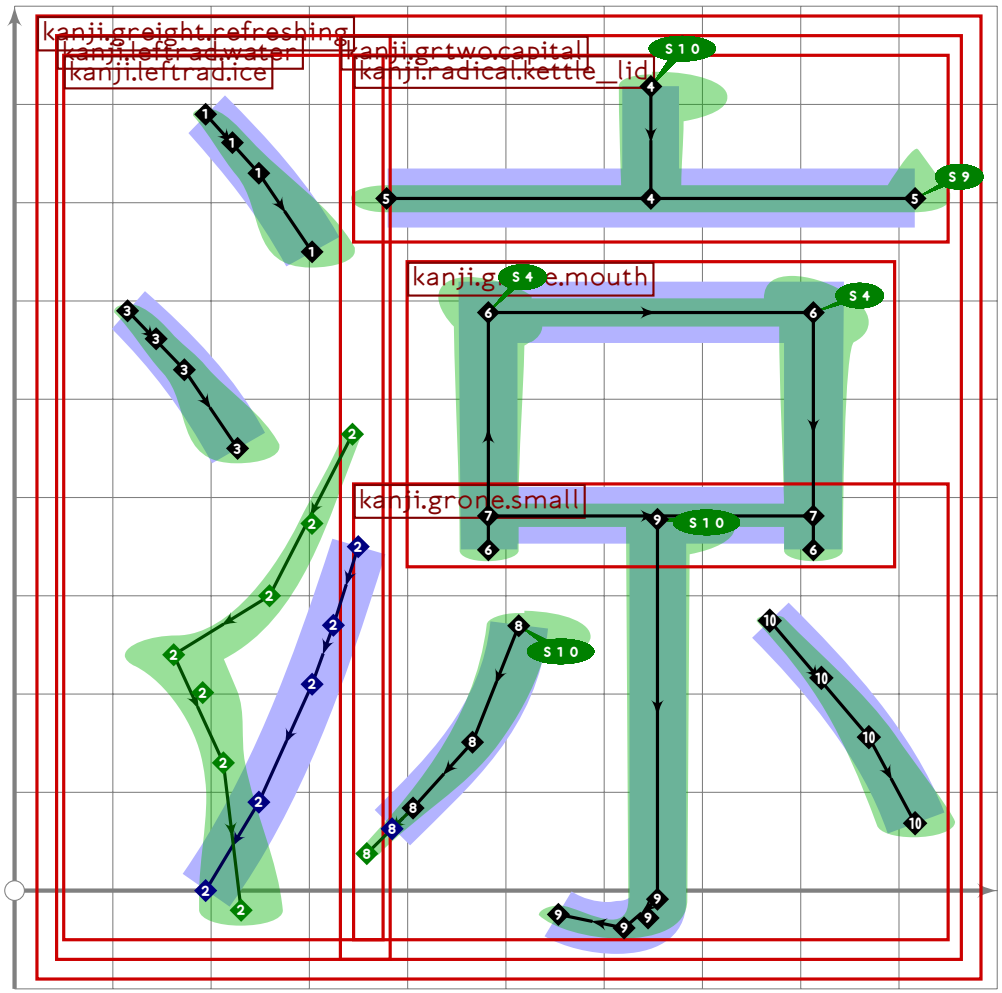



```
vardef kanji.grfive.liquid =
  push_pbox_toexpand("kanji.grfive.liquid");
  build_kanji.lr(320,-20)
    (kanji.leftrad.water)
    (kanji.grtwo.evening);
  expand_pbox;
enddef;
```

U+6D17
tsuku.uni6D17




```
137
138 vardef  kanji.grsix.wash =
139   push_pbox_toexpand("kanji.grsix.wash");
140   build_kanji.lr(360,10)
141     (kanji.leftrad.water)
142     (kanji.grone.ahead);
143   expand_pbox;
144 enddef;
145
146 ---------------------------------------------------------------
```

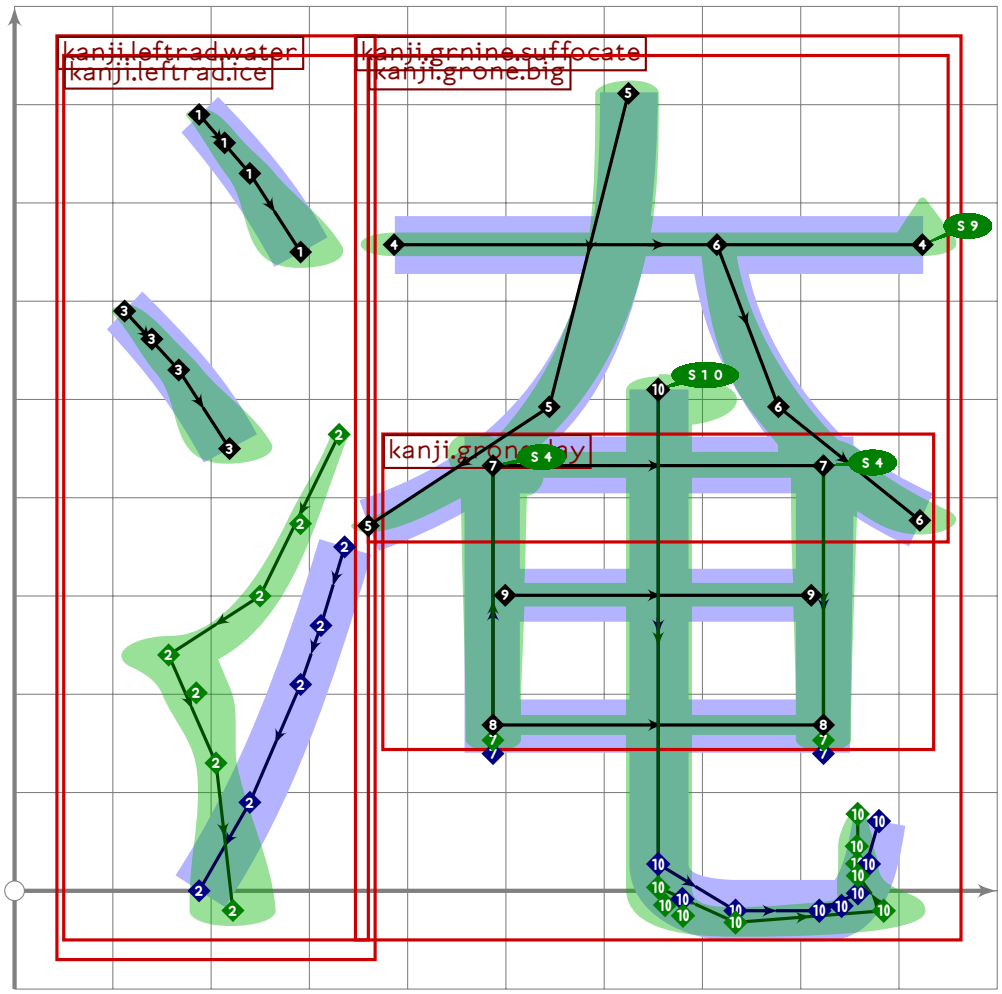



```
147
148 vardef kanji.greight.refreshing =
149   push_pbox_toexpand("kanji.greight.refreshing");
150   build_kanji.lr(360,30)
151     (kanji.leftrad.water)
152     (kanji.grtwo.capital);
153   expand_pbox;
154 enddef;
155
156 ---------------------------------------------------------------
157
158 % you "ocean"
159 begintsuglyph("uni6D0B",11);                          [see page 2410]
160   kanji.grthree.ocean;
161   tsu_render;
162 endtsuglyph;
163
164 % sen/ara "wash"
165 begintsuglyph("uni6D17",23);                          [see page 2414]
166   kanji.grsix.wash;
167   tsu_render;
```

```
endtsuglyph;

% raku "Kyoto"
begintsuglyph("uni6D1B",27);                                    [see page 779]
  kanji.grnine.kyoto;
  tsu_render;
endtsuglyph;

% katsu/i "correct"
begintsuglyph("uni6D3B",59);                                    [see page 2406]
  kanji.grtwo.vitality;
  tsu_render;
endtsuglyph;

% ryuu/naga "current"
begintsuglyph("uni6D41",65);                                    [see page 2408]
  kanji.grthree.current;
  tsu_render;
endtsuglyph;

% sen/asa "shallow"
begintsuglyph("uni6D45",69);                                    [see page 2412]
  kanji.grfour.shallow;
  tsu_render;
endtsuglyph;

% yoku/a "bathe"
begintsuglyph("uni6D74",116);                                   [see page 2411]
  kanji.grfour.bathe;
  tsu_render;
endtsuglyph;

% kai/umi "ocean"
begintsuglyph("uni6D77",119);                                   [see page 2405]
  kanji.grtwo.ocean;
  tsu_render;
endtsuglyph;

% shou/ki "cancel"
begintsuglyph("uni6D88",136);                                   [see page 2407]
  kanji.grthree.cancel;
  tsu_render;
endtsuglyph;

% eki "liquid"
begintsuglyph("uni6DB2",178);                                   [see page 2413]
  kanji.grfive.liquid;
  tsu_render;
```

```
endtsuglyph;

% ryou/suzu "refreshing"
begintsuglyph("uni6DBC",188);
  kanji.greight.refreshing;
  tsu_render;
endtsuglyph;
```

[see page 2415]




```
% extra en/i "soak" (in particular, making tea or coffee)
begintsuglyph("uni6DF9",249);
  build_kanji.lr(360,0)
    (kanji.leftrad.water)
    (kanji.grnine.suffocate);
  tsu_render;
endtsuglyph;

% shin/fuka "deep"
begintsuglyph("uni6DF1",241);
  kanji.grthree.deep;
  tsu_render;
endtsuglyph;
```

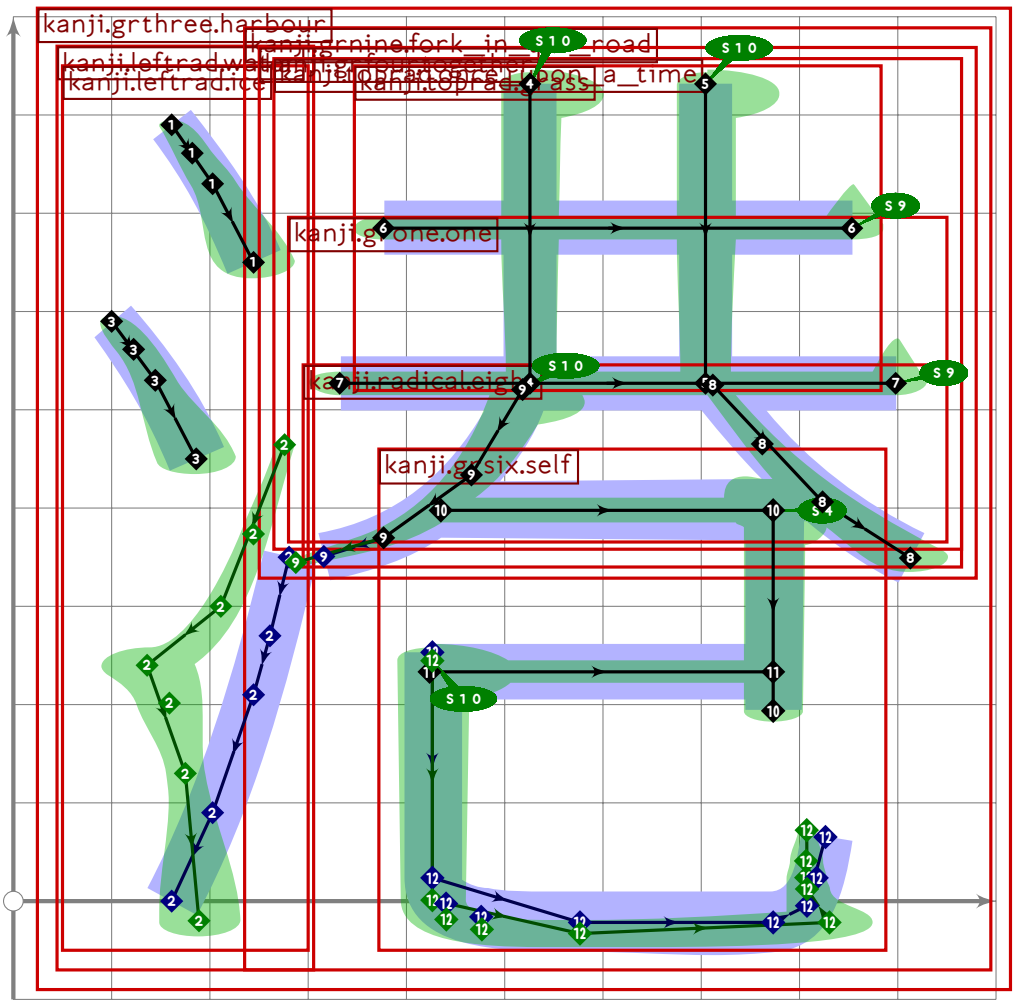
[see page 2409]

```
237
238 ---------------------------------------------------------------------------
239
240 endfont;
241
242 ---------------------------------------------------------------------------
```

tsuku-6e.mp

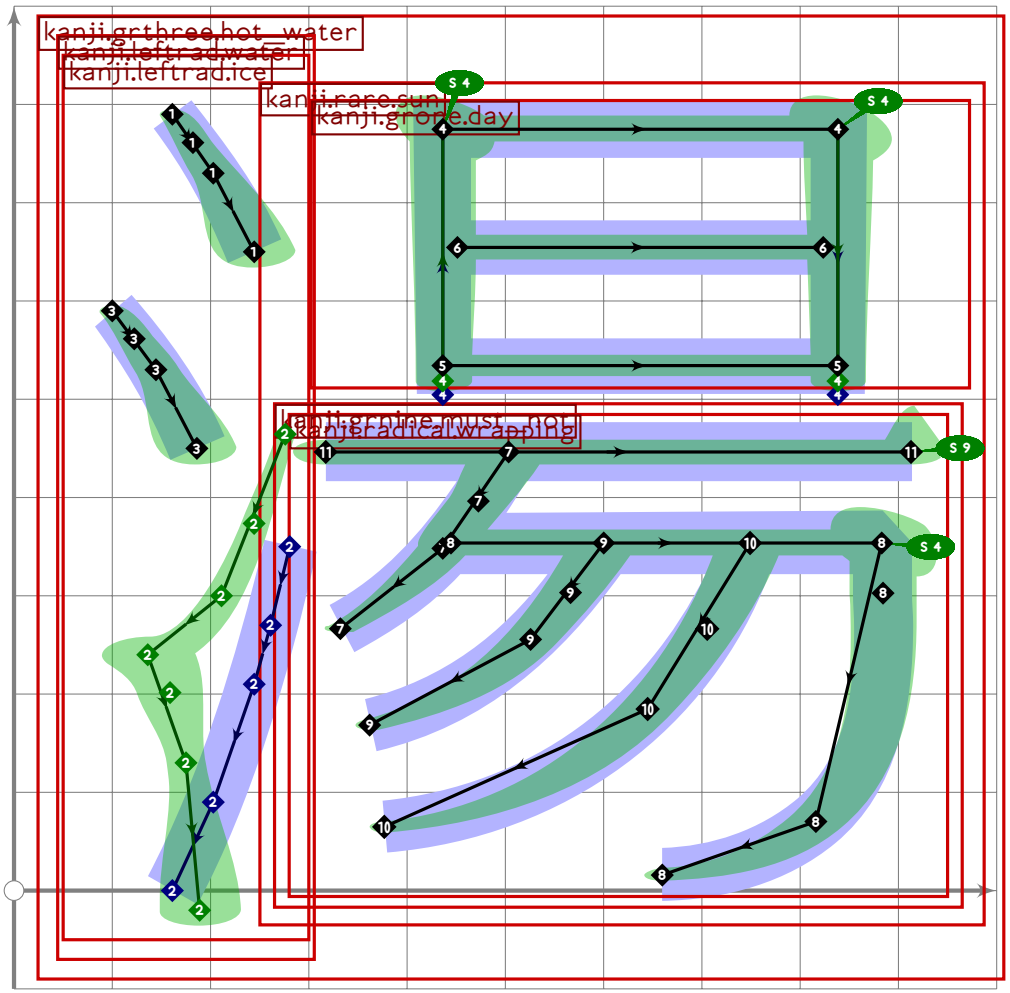
```
%
% Unicode page 6E (Kanji) for Tsukurimashou
% Copyright (C) 2011, 2012 Matthew Skala
%
[Standard copyright notice]

---

beginfont

% AUTODEPS
input bottomrad.mp;
input buildkanji.mp;
input gradefive.mp;
input gradefour.mp;
input gradenine.mp;
input gradeone.mp;
input gradesix.mp;
input gradethree.mp;
input gradetwo.mp;
input leftrad.mp;
input radical.mp;
input rare.mp;
input rightrad.mp;
input toprad.mp;

do_late_includes;

---
```

U+6E2F
tsuku.uni6E2F



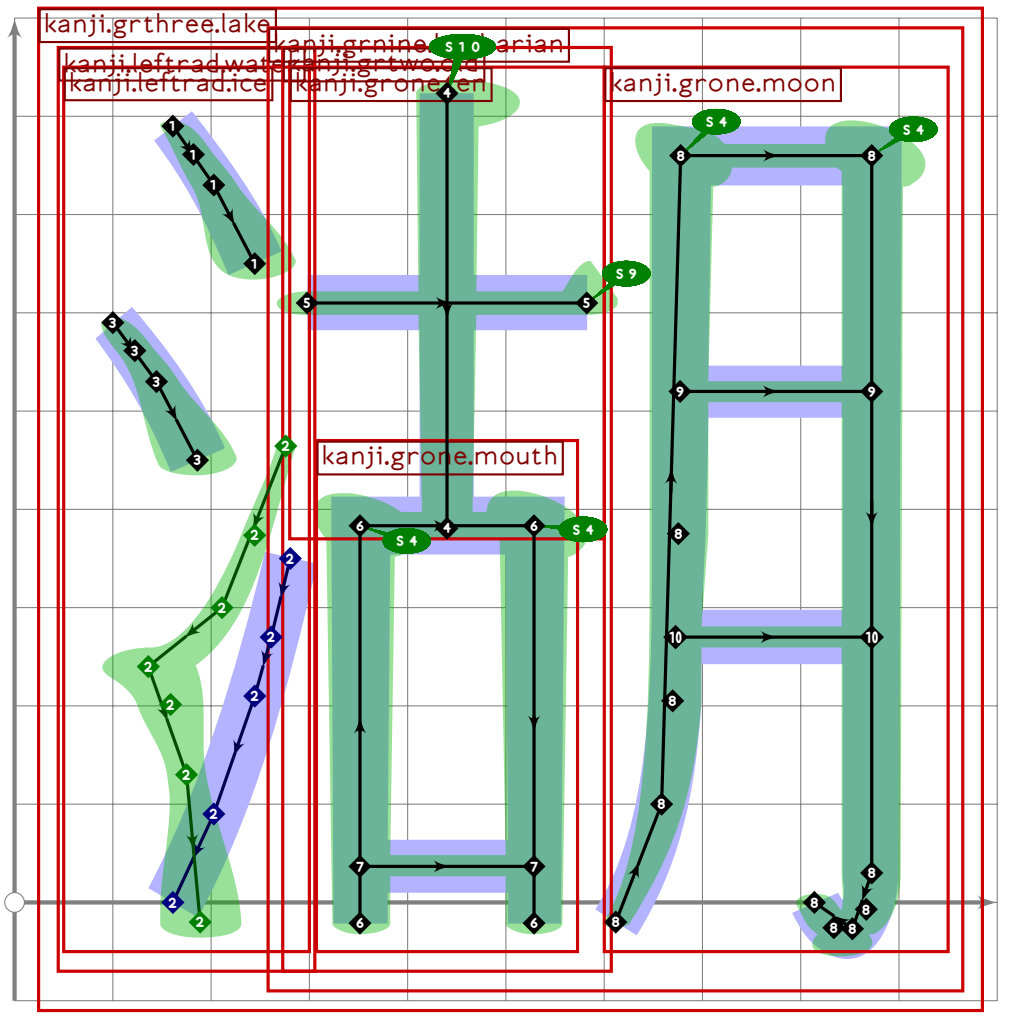

```
54
55 vardef kanji.grthree.harbour =
56   push_pbox_toexpand("kanji.grthree.harbour");
57   build_kanji.lr(290,20)
58     (kanji.leftrad.water)
59     (kanji.grnine.fork_in_the_road);
60   expand_pbox;
61 enddef;
```

6E

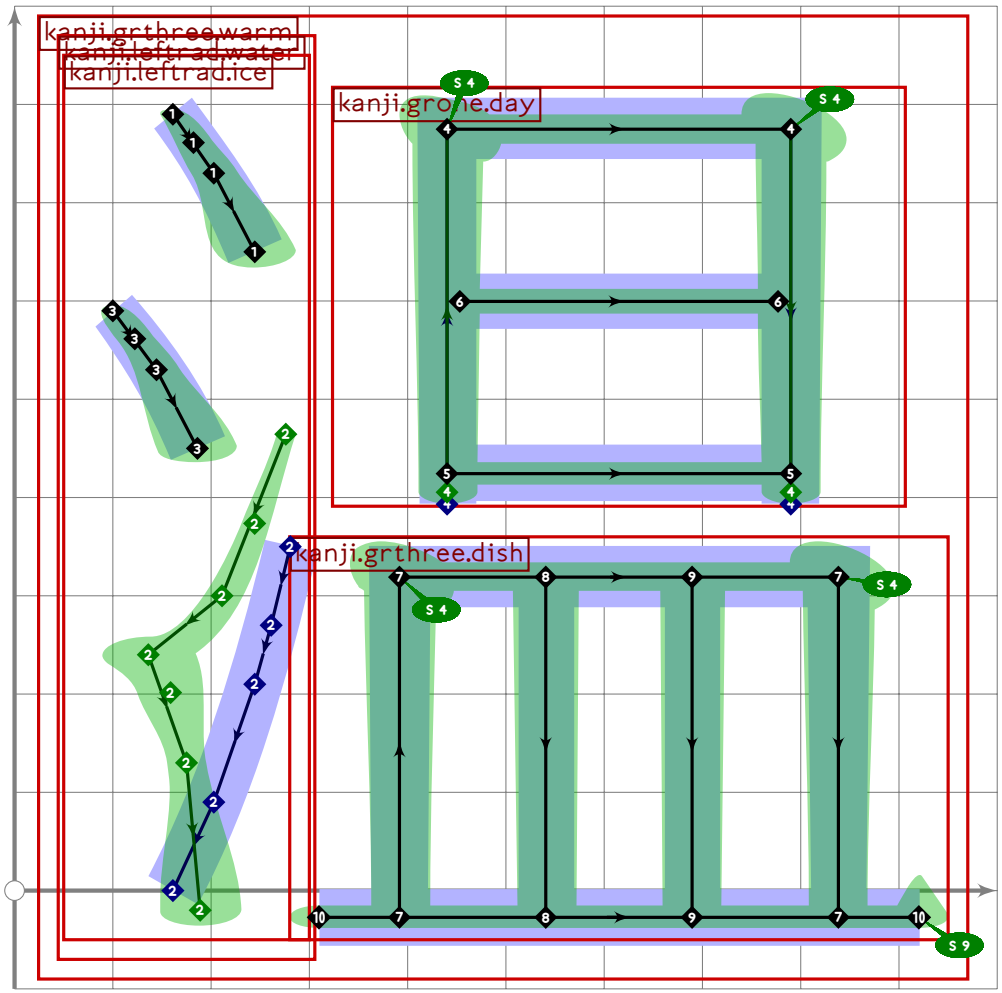



```
62
63 vardef kanji.grthree.hot_water =
64   push_pbox_toexpand("kanji.grthree.hot_water");
65   build_kanji.lr(290,20)
66     (kanji.leftrad.water)
67     (build_kanji.sscale(yscaled 0.9)(kanji.rare.sun));
68   expand_pbox;
69 enddef;
```

U+6E56
tsuku.uni6E56

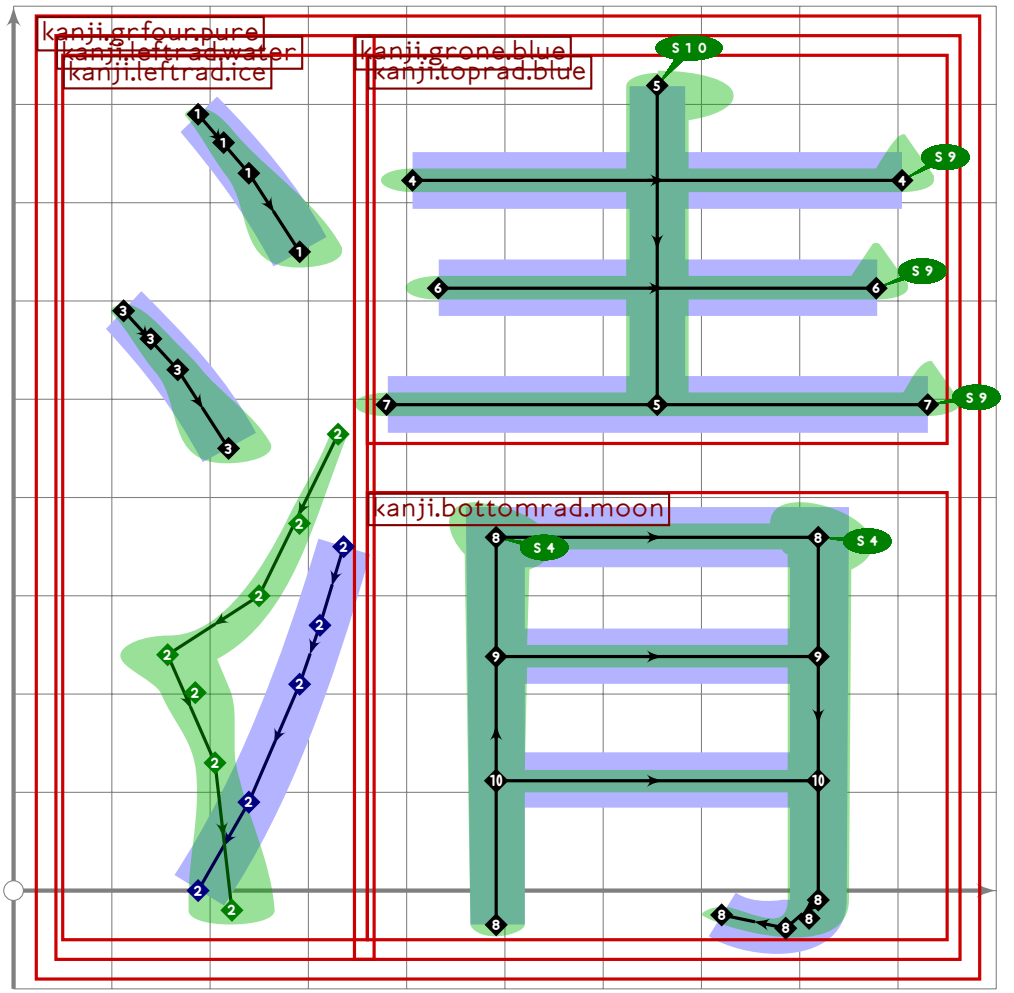



```
70
71 vardef  kanji.grthree.lake =
72   push_pbox_toexpand("kanji.grthree.lake");
73   build_kanji.lr(290,20)
74     (kanji.leftrad.water)
75     (kanji.grnine.barbarian);
76   expand_pbox;
77 enddef;
```

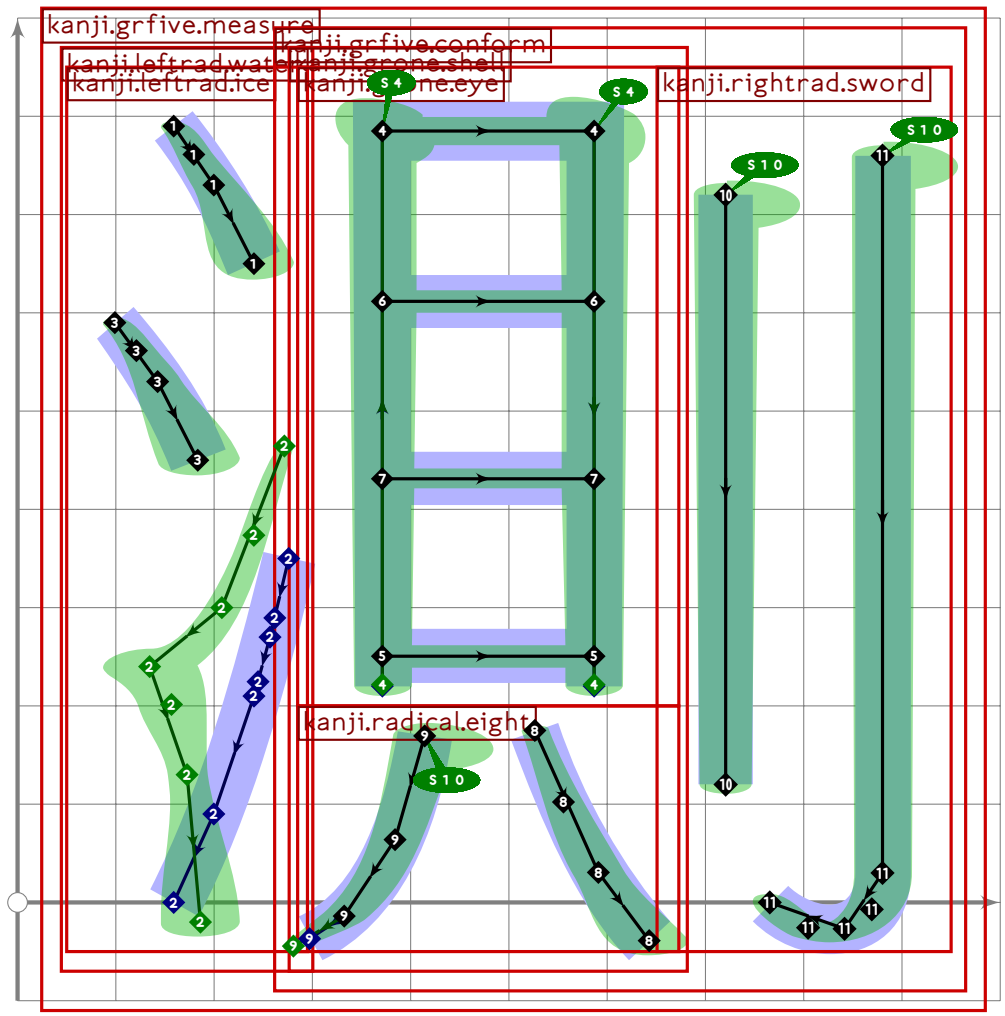



```
78
79 vardef  kanji.grthree.warm =
80   push_pbox_toexpand("kanji.grthree.warm");
81   build_kanji.lr(290,20)
82     (kanji.leftrad.water)
83     (build_kanji.level(build_kanji.tb(360,0)
84         (build_kanji.sscale(scaled  0.87)(kanji.grone.day))
85         (kanji.grthree.dish)));
86   expand_pbox;
87 enddef;
88
89 ---------------------------------------------------------------
```

U+6E05
tsuku.uni6E05

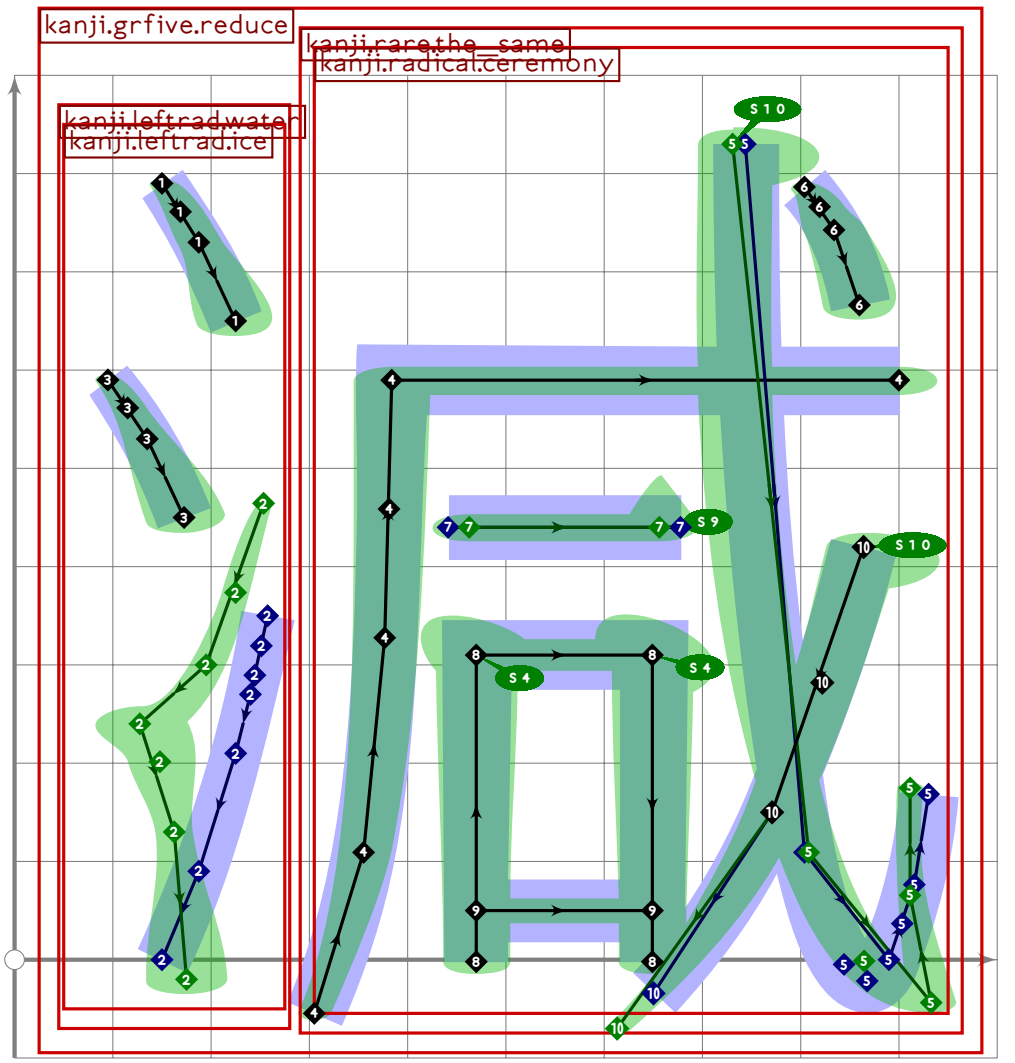



```
90
91 vardef  kanji.grfour.pure =
92   push_pbox_toexpand("kanji.grfour.pure");
93   build_kanji.lr(360,0)
94     (kanji.leftrad.water)
95     (kanji.grone.blue);
96   expand_pbox;
97 enddef;
98
99 ---------------------------------------------------------------
```

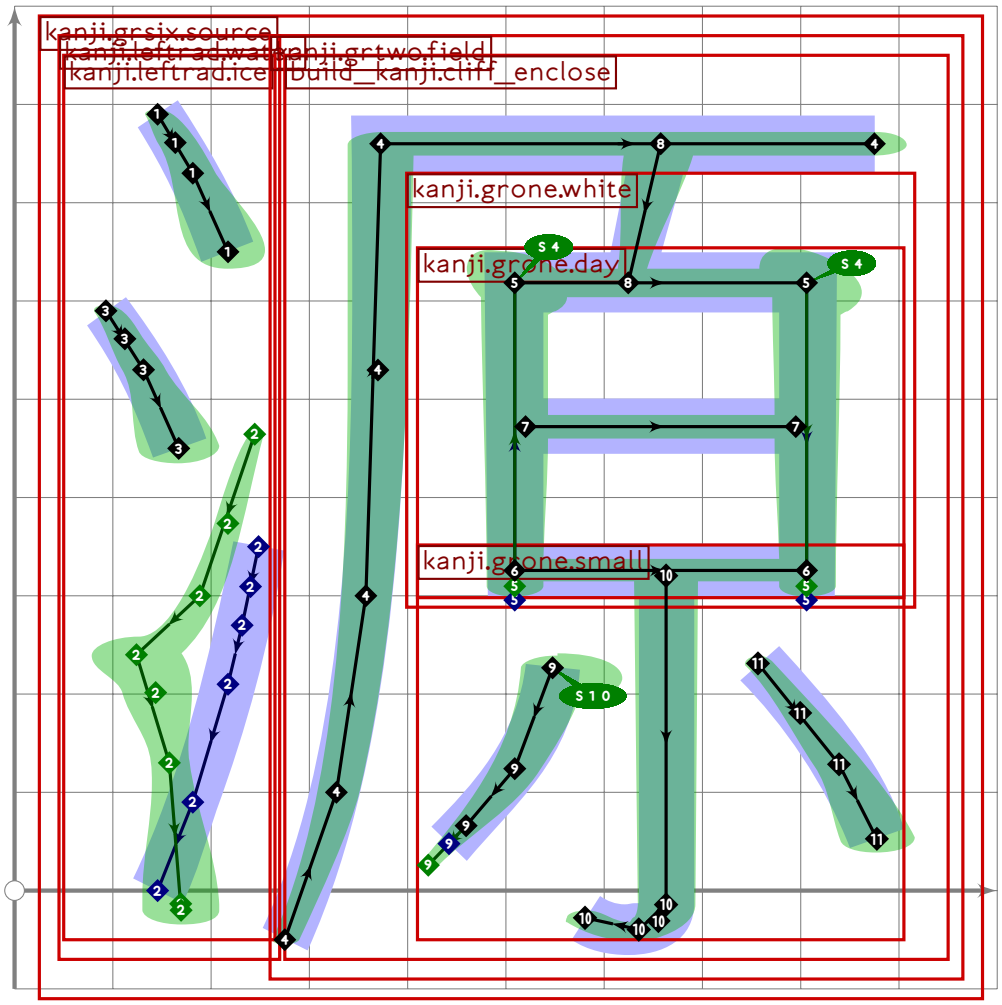



```
100
101 vardef  kanji.grfive.measure =
102   push_pbox_toexpand("kanji.grfive.measure");
103   build_kanji.lr(290,10)
104     (kanji.leftrad.water)
105     (kanji.grfive.conform);
106   expand_pbox;
107 enddef;
```

U+6E1B
tsuku.uni6E1B

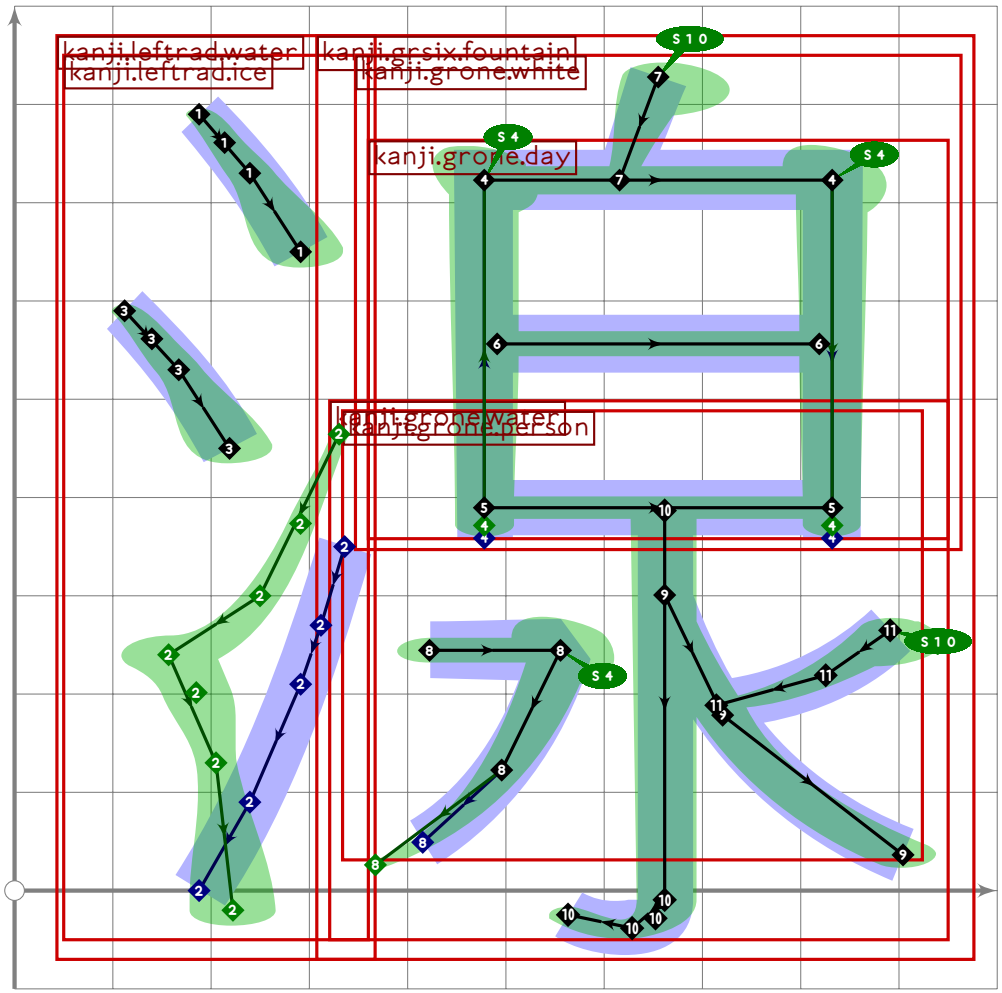



```
108
109 vardef  kanji.grfive.reduce =
110   push_pbox_toexpand("kanji.grfive.reduce");
111   build_kanji.lr(290,-30)
112     (kanji.leftrad.water)
113     (kanji.rare.the_same);
114   expand_pbox;
115 enddef;
116
117 ---------------------------------------------------------------------------
```




```
118
119 vardef kanji.grsix.source =
120   push_pbox_toexpand("kanji.grsix.source");
121   build_kanji.lr(270,-10)
122     (kanji.leftrad.water)
123     (kanji.grtwo.field);
124   expand_pbox;
125 enddef;
126
127 ---------------------------------------------------------------------
128
129 % sei/kiyo "pure"
130 begintsuglyph("uni6E05",5);                          [see page 2424]
131   kanji.grfour.pure;
132   tsu_render;
133 endtsuglyph;
134
135 % gen/he "reduce"
136 begintsuglyph("uni6E1B",27);                         [see page 2426]
137   kanji.grfive.reduce;
138   tsu_render;
```

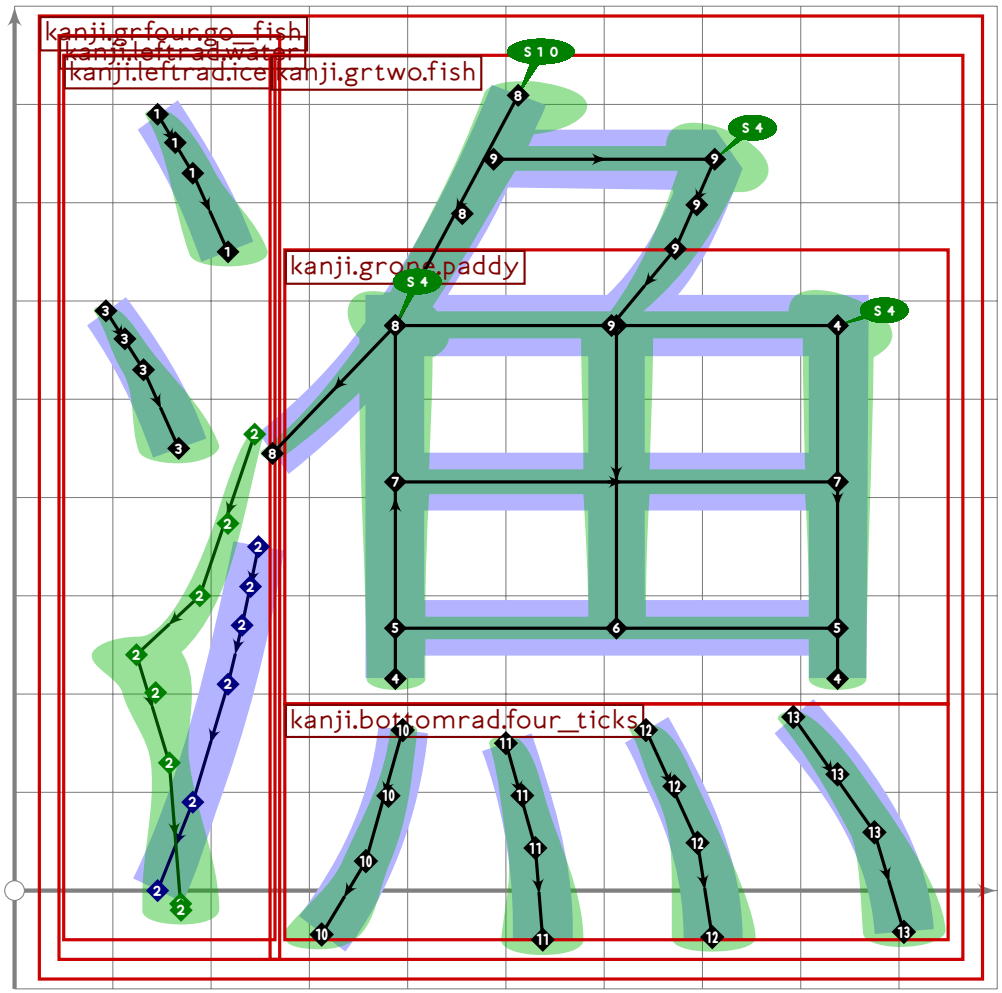
```
endtsuglyph;

% on/atata "warm"
begintsuglyph("uni6E29",41);                                    [see page 2423]
  kanji.grthree.warm;
  tsu_render;
endtsuglyph;

% soku/haka "measure"
begintsuglyph("uni6E2C",44);                                    [see page 2425]
  kanji.grfive.measure;
  tsu_render;
endtsuglyph;

% kou/minato "harbour"
begintsuglyph("uni6E2F",47);                                    [see page 2420]
  kanji.grthree.harbour;
  tsu_render;
endtsuglyph;

% tou/yu "hot water"
begintsuglyph("uni6E6F",111);                                   [see page 2421]
  kanji.grthree.hot_water;
  tsu_render;
endtsuglyph;

% ko/mizuumi "lake"
begintsuglyph("uni6E56",86);                                    [see page 2422]
  kanji.grthree.lake;
  tsu_render;
endtsuglyph;
```




```
% extra
begintsuglyph("uni6E76",118);
  build_kanji.lr(360,0)
    (kanji.leftrad.water)
    (kanji.grsix.fountain);
  tsu_render;
endtsuglyph;

% gen/minamoto "source" (also "gen" as in "Genji Monogatari")
begintsuglyph("uni6E90",144);                                [see page 2427]
  kanji.grsix.source;
  tsu_render;
endtsuglyph;

---

endfont;

---
```

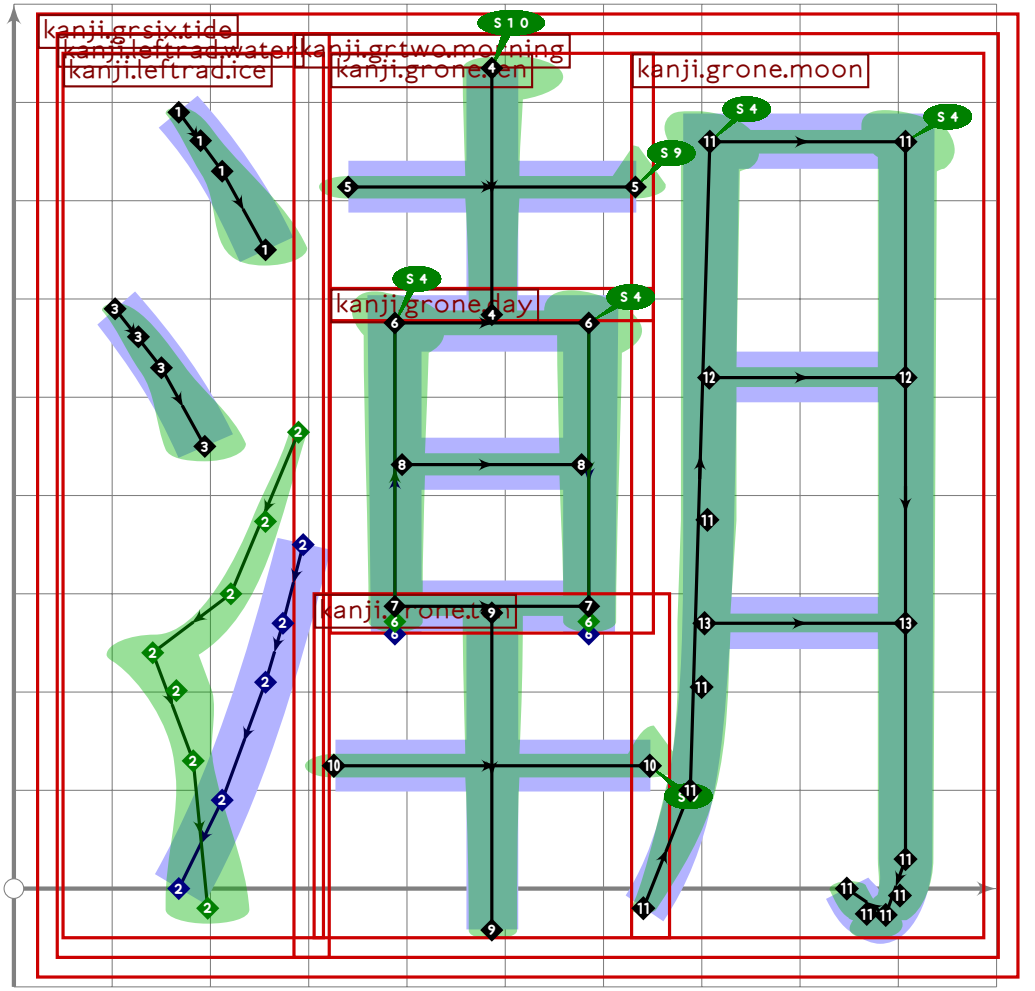
tsuku-6f.mp

```
%
% Unicode page 6F (Kanji) for Tsukurimashou
% Copyright (C) 2011, 2012 Matthew Skala
%
[Standard copyright notice]

---

beginfont

% AUTODEPS
input bottomrad.mp;
input buildkanji.mp;
input gradefour.mp;
input gradeone.mp;
input gradetwo.mp;
input leftrad.mp;
input toprad.mp;

do_late_includes;

---
```

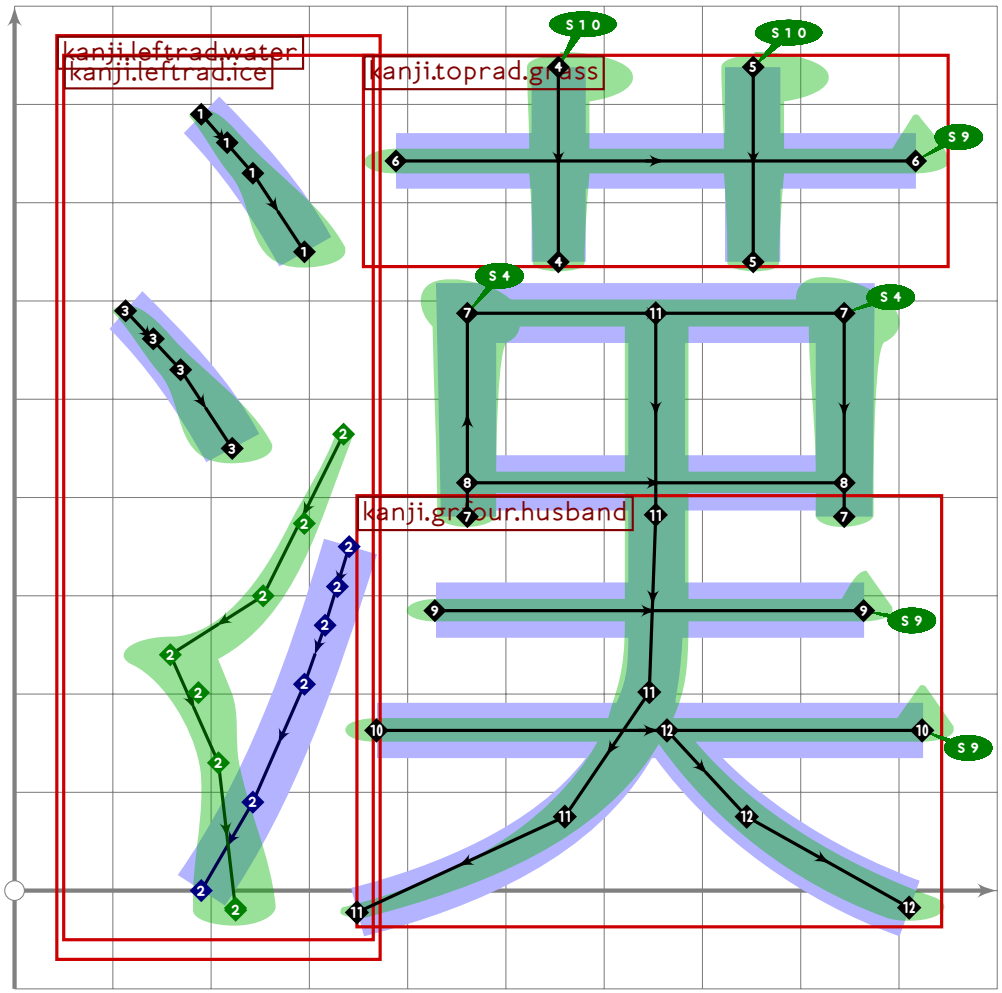



```
47
48 vardef  kanji.grfour.go_fish =
49   push_pbox_toexpand("kanji.grfour.go_fish");
50   build_kanji.lr(270,-10)
51     (kanji.leftrad.water)
52     (kanji.grtwo.fish);
53   expand_pbox;
54 enddef;
55
56 ---------------------------------------------------------------
```

U+6F6E
tsuku.uni6F6E




```
57
58 vardef kanji.grsix.tide =
59   push_pbox_toexpand("kanji.grsix.tide");
60   build_kanji.lr(300,30)
61     (kanji.leftrad.water)
62     (kanji.grtwo.morning);
63   expand_pbox;
64 enddef;
65
66 ---------------------------------------------------------------------
67
68 % gyo/asa "go fish"
69 begintsuglyph("uni6F01",1);                          [see page 2431]
70   kanji.grfour.go_fish;
71   tsu_render;
72 endtsuglyph;
73
```




```
% kan "Chinese"
begintsuglyph("uni6F22",34);
  build_kanji.level(build_kanji.lr(360,10)
    (kanji.leftrad.water)
    (build_kanji.tb(630,-10)
      (kanji.toprad.grass)
      (build_kanji.box((210,800),(790,570));
        tsu_xform(identity yscaled 0.65 shifted (-10,0))
          (kanji.grfour.husband);
        replace_strokep(-1)((500,800)-oldp);
        replace_strokeq(-1)((1.6,1.6)-oldq);
        set_boserif(-1,0,whatever))));
  tsu_render;
endtsuglyph;

% chou/shio "tide" (or "opportunity")
begintsuglyph("uni6F6E",110);
  kanji.grsix.tide;
  tsu_render;
endtsuglyph;
```

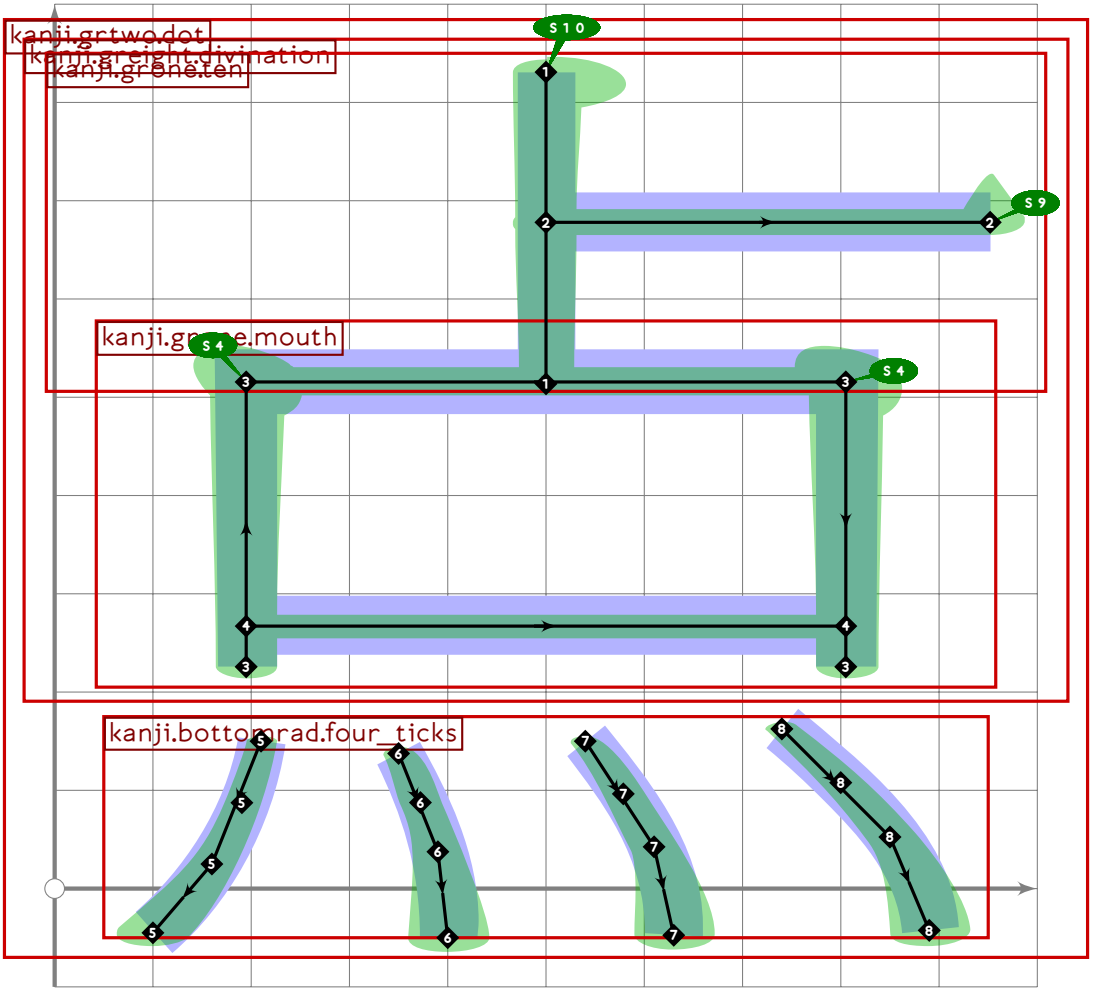
[see page 2432]

```
95 ---------------------------------------------------------------------------
96
97 endfont;
98
99 ---------------------------------------------------------------------------
```

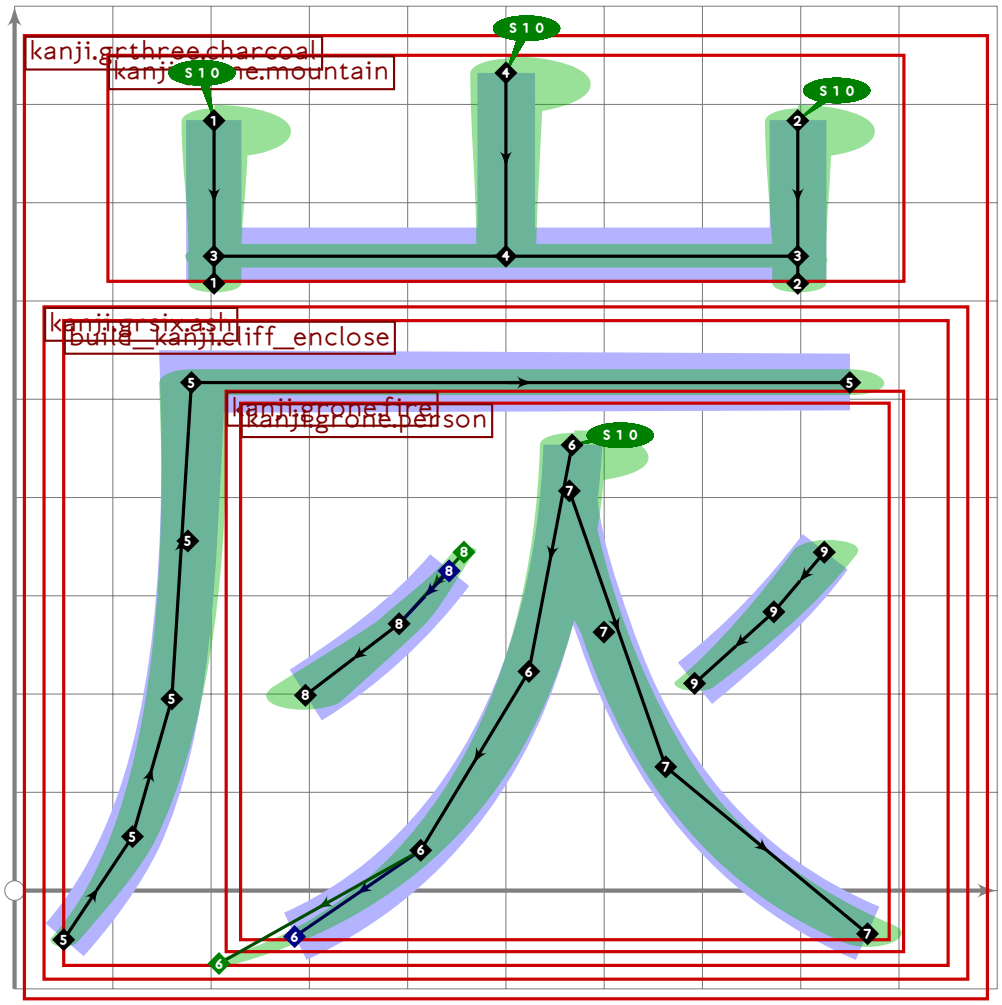
tsuku-70.mp

```
%
% Unicode page 70 (Kanji) for Tsukurimashou
% Copyright (C) 2011, 2012, 2013 Matthew Skala
%
[Standard copyright notice]

---

beginfont

% AUTODEPS
input bottomrad.mp;
input buildkanji.mp;
input gradeeight.mp;
input gradeone.mp;
input gradethree.mp;
input leftrad.mp;

do_late_includes;

---

```

U+70B9
tsuku.uni70B9

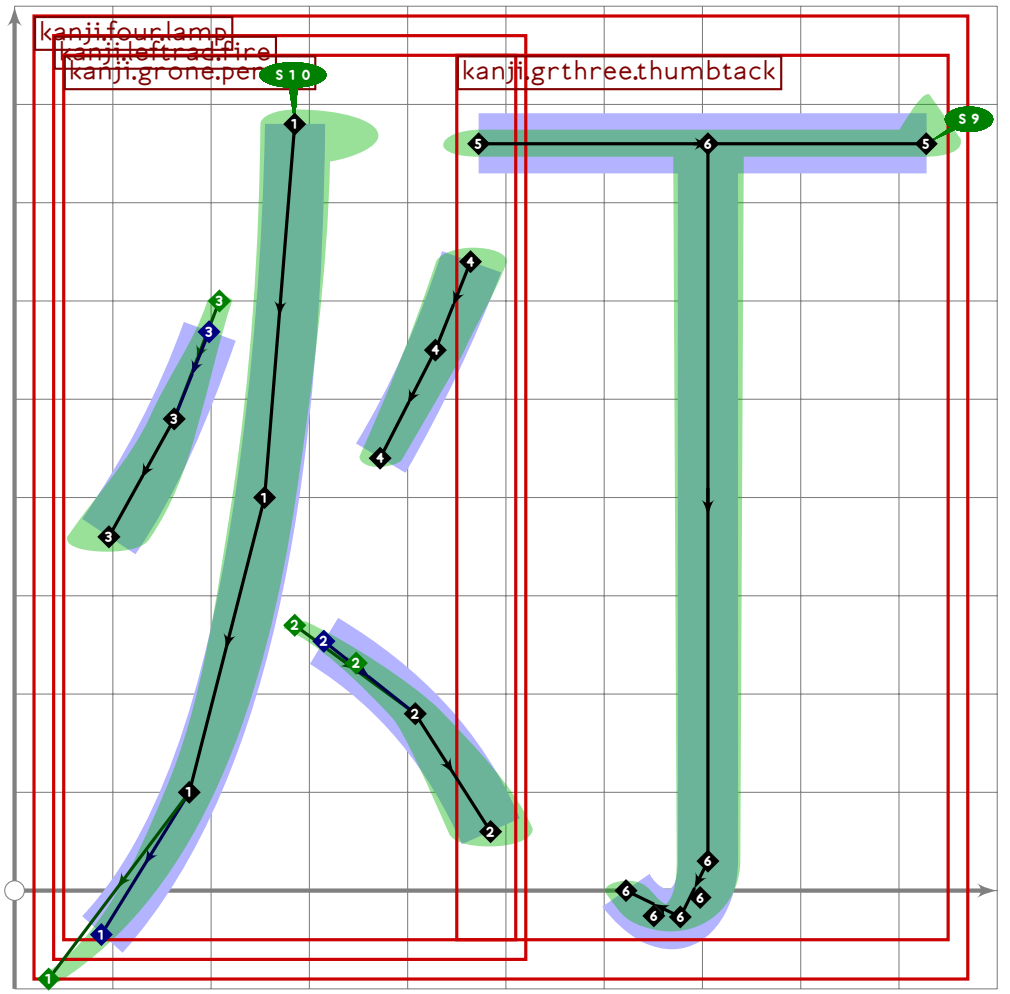



```
% "point" is a reserved word
vardef kanji.grtwo.dot =
  push_pbox_toexpand("kanji.grtwo.dot");
  build_kanji.tb(190,-30)
    (build_kanji.sscale(xscaled 1.13)
        (kanji.greight.divination))
    (kanji.bottomrad.four_ticks);
  expand_pbox;
enddef;

```

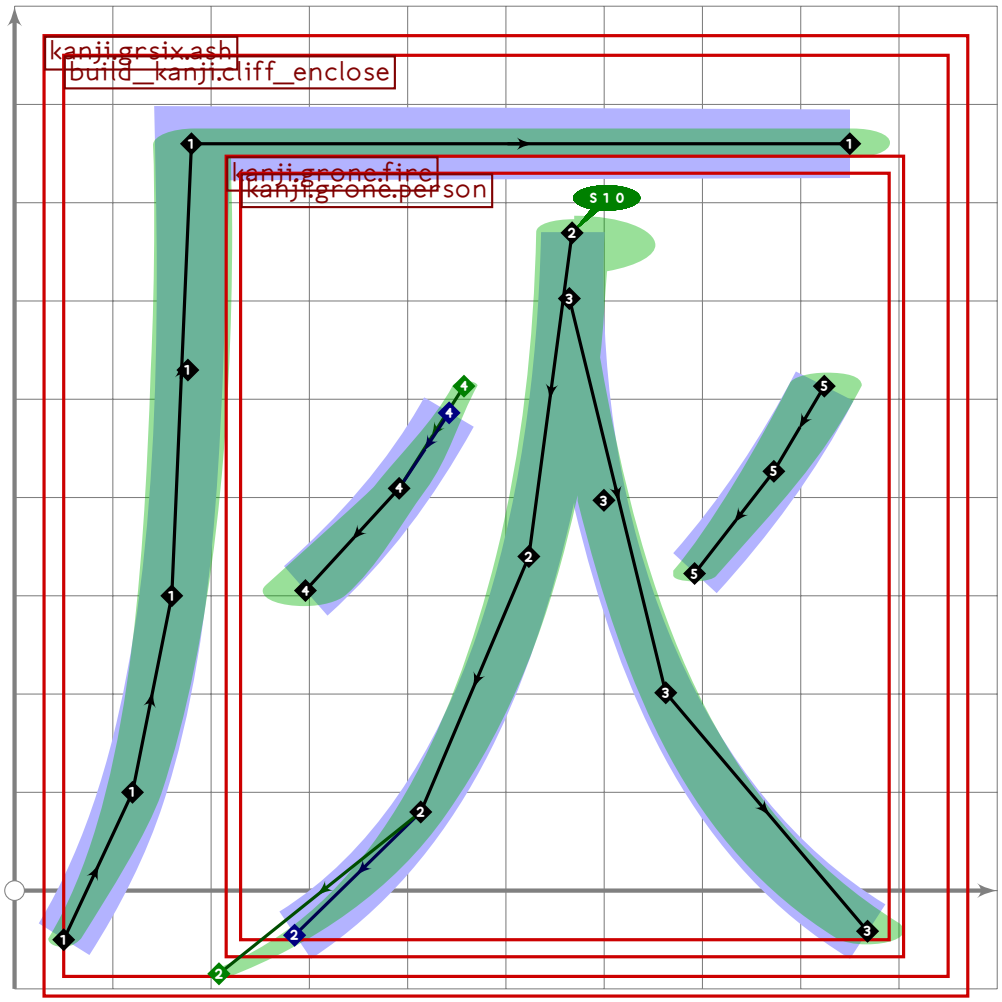



```
58
59 vardef kanji.grthree.charcoal =
60   push_pbox_toexpand("kanji.grthree.charcoal");
61   build_kanji.level(build_kanji.tb(600,-40)
62     (build_kanji.sscale(xscaled 0.9)(kanji.grone.mountain))
63     (kanji.grsix.ash));
64   expand_pbox;
65 enddef;
66
67 ---------------------------------------------------------------
```

U+706F
tsuku.uni706F




```
68
69 vardef  kanji.grfour.lamp =
70   push_pbox_toexpand("kanji.four.lamp");
71   build_kanji.level(build_kanji.lr(480,60)
72     (kanji.leftrad.fire)
73     (kanji.grthree.thumbtack));
74   expand_pbox;
75 enddef;
76
77 ---------------------------------------------------------------
```

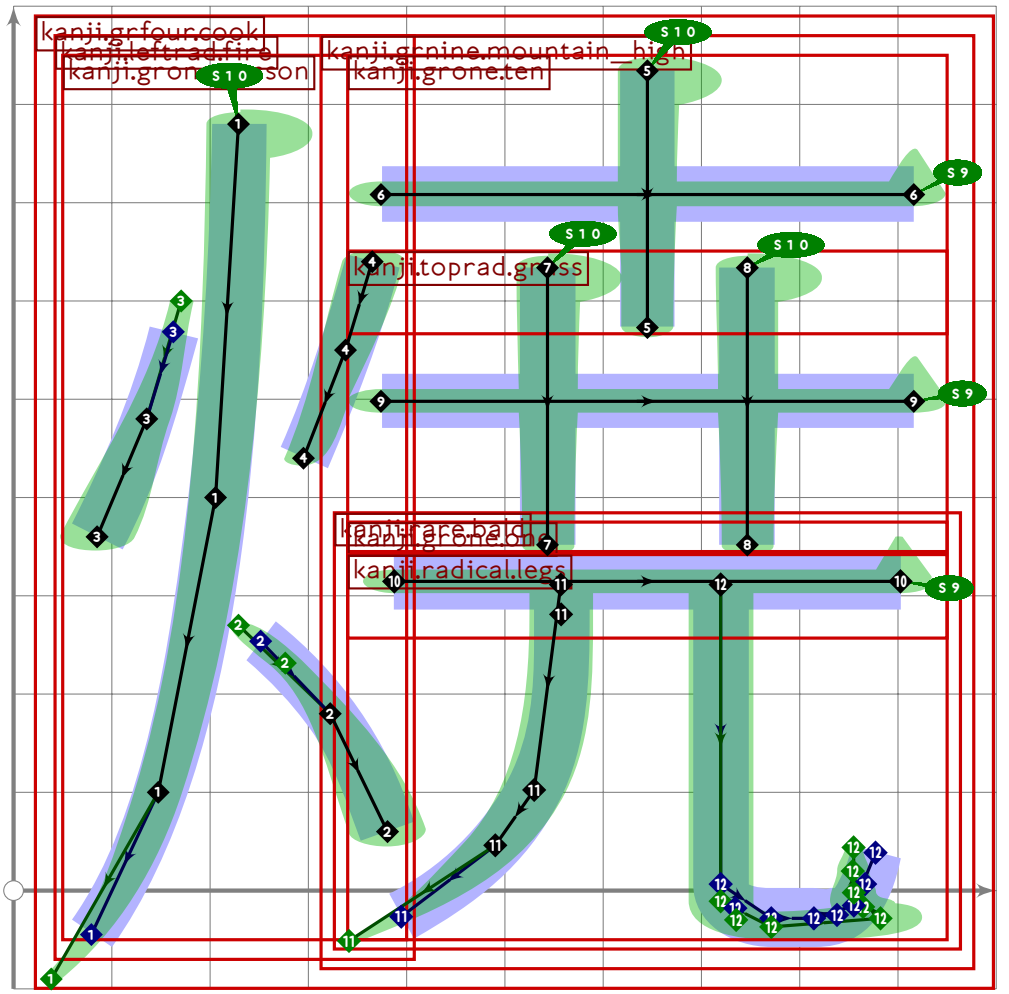



```
78
79 vardef kanji.grsix.ash =
80   push_pbox_toexpand("kanji.grsix.ash");
81   build_kanji.cliff_enclose(kanji.grone.fire);
82   expand_pbox;
83 enddef;
84
85 ---------------------------------------------------------------------------
86
87 % hi/ka "fire"
88 begintsuglyph("uni706B",107);                                  [see page 432]
89   kanji.grone.fire;
90   tsu_render;
91 endtsuglyph;
92
93 % tou/hi "lamp"
94 begintsuglyph("uni706F",111);                                  [see page 2438]
95   kanji.grfour.lamp;
96   tsu_render;
97 endtsuglyph;
98
```

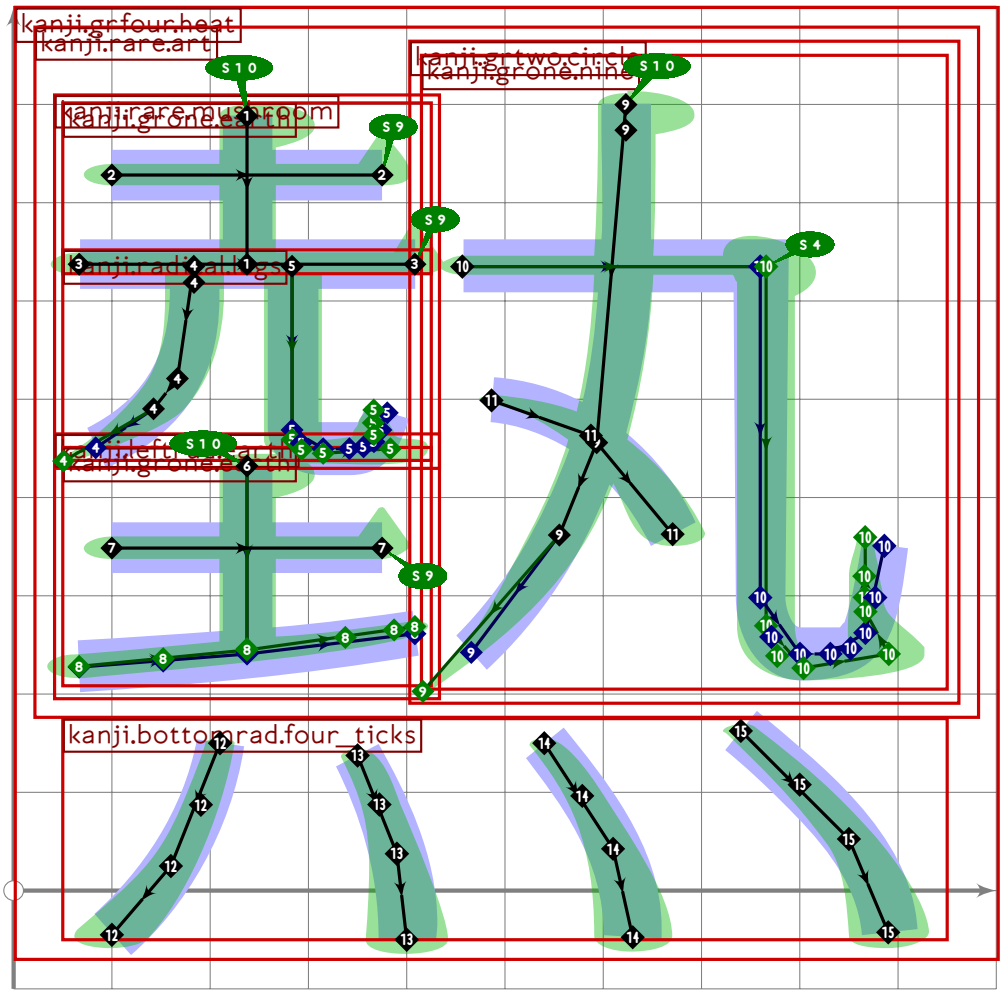
```
% kai/hai "ash"
begintsuglyph("uni7070",112);                                   [see page 2439]
  kanji.grsix.ash;
  tsu_render;
endtsuglyph;

% en/honoo "inflammation"
begintsuglyph("uni708E",142);                                    [see page 746]
  kanji.greight.inflammation;
  tsu_render;
endtsuglyph;

% tan/sumi "charcoal"
begintsuglyph("uni70AD",173);                                   [see page 2437]
  kanji.grthree.charcoal;
  tsu_render;
endtsuglyph;

% ten/tsu "point"
begintsuglyph("uni70B9",185);                                   [see page 2436]
  kanji.grtwo.dot;
  tsu_render;
endtsuglyph;

---

endfont;

---
```

```
%
% Unicode page 71 (Kanji) for Tsukurimashou
% Copyright (C) 2012, 2013 Matthew Skala
%
[Standard copyright notice]

---

beginfont

% AUTODEPS
input bottomrad.mp;
input buildkanji.mp;
input gradeeight.mp;
input gradenine.mp;
input gradeone.mp;
input gradethree.mp;
input gradetwo.mp;
input leftrad.mp;
input radical.mp;
input rare.mp;
input toprad.mp;

do_late_includes;

---
```

U+713C
tsuku.uni713C

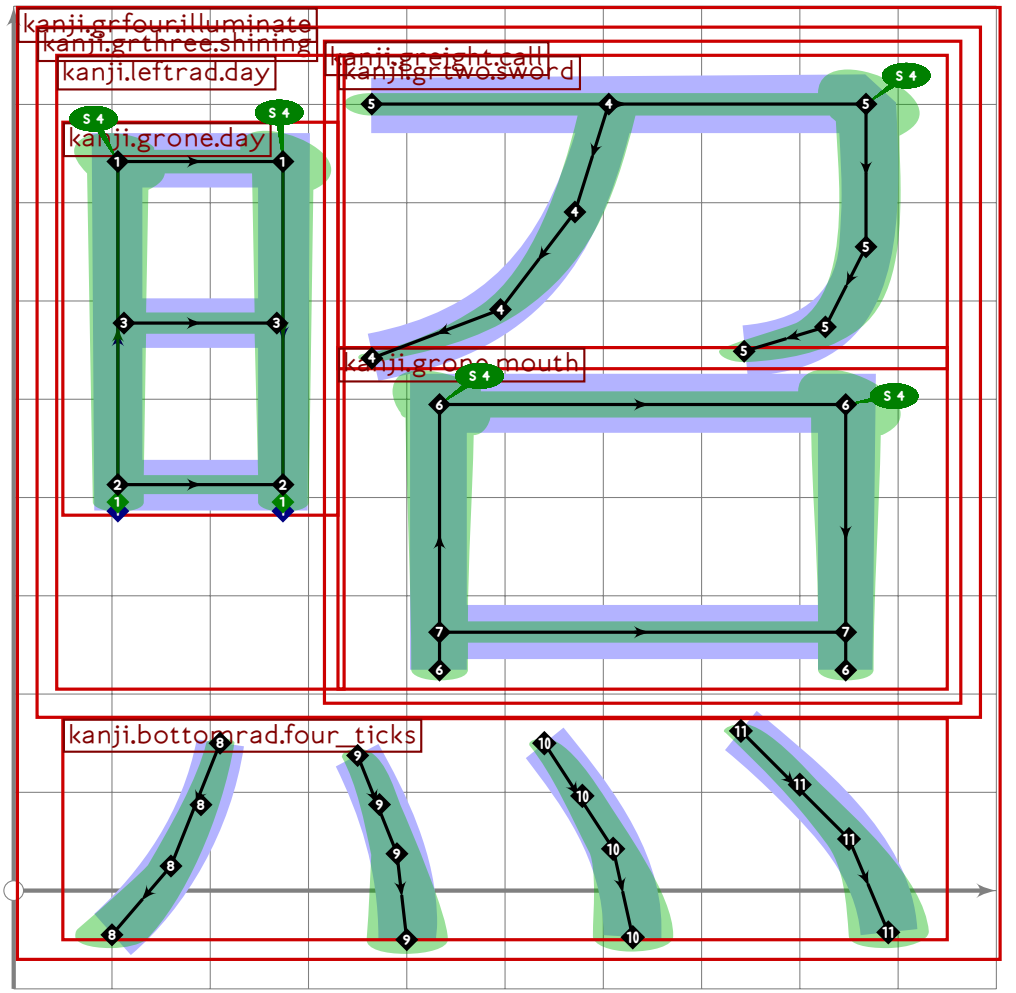



```
51
52 vardef  kanji.grfour.cook =
53   push_pbox_toexpand("kanji.grfour.cook");
54   build_kanji.level(build_kanji.lr(370,60)
55     (kanji.leftrad.fire)
56     (kanji.grnine.mountain_high));
57   expand_pbox;
58 enddef;
```

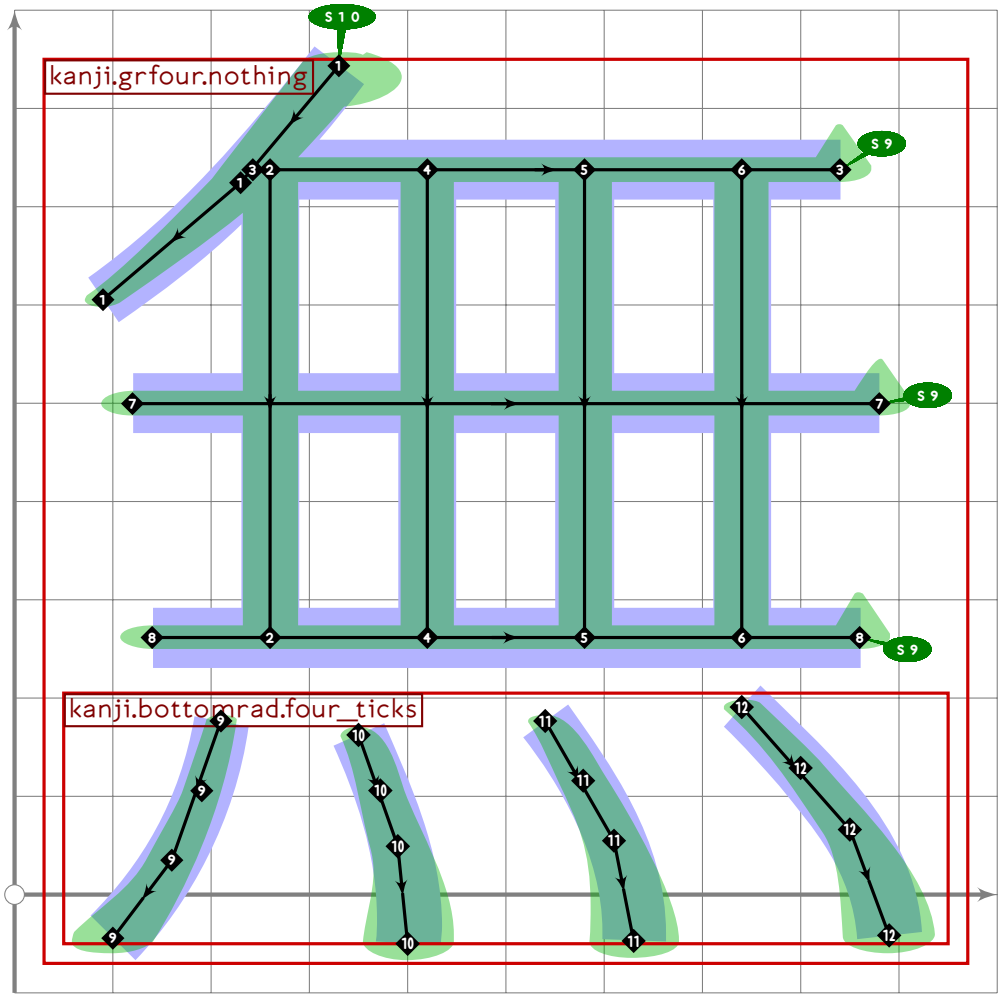



```
vardef kanji.grfour.heat =
  push_pbox_toexpand("kanji.grfour.heat");
  build_kanji.tb(190,-30)
    (kanji.rare.art)
    (kanji.bottomrad.four_ticks);
  expand_pbox;
enddef;
```

U+7167
tsuku.uni7167

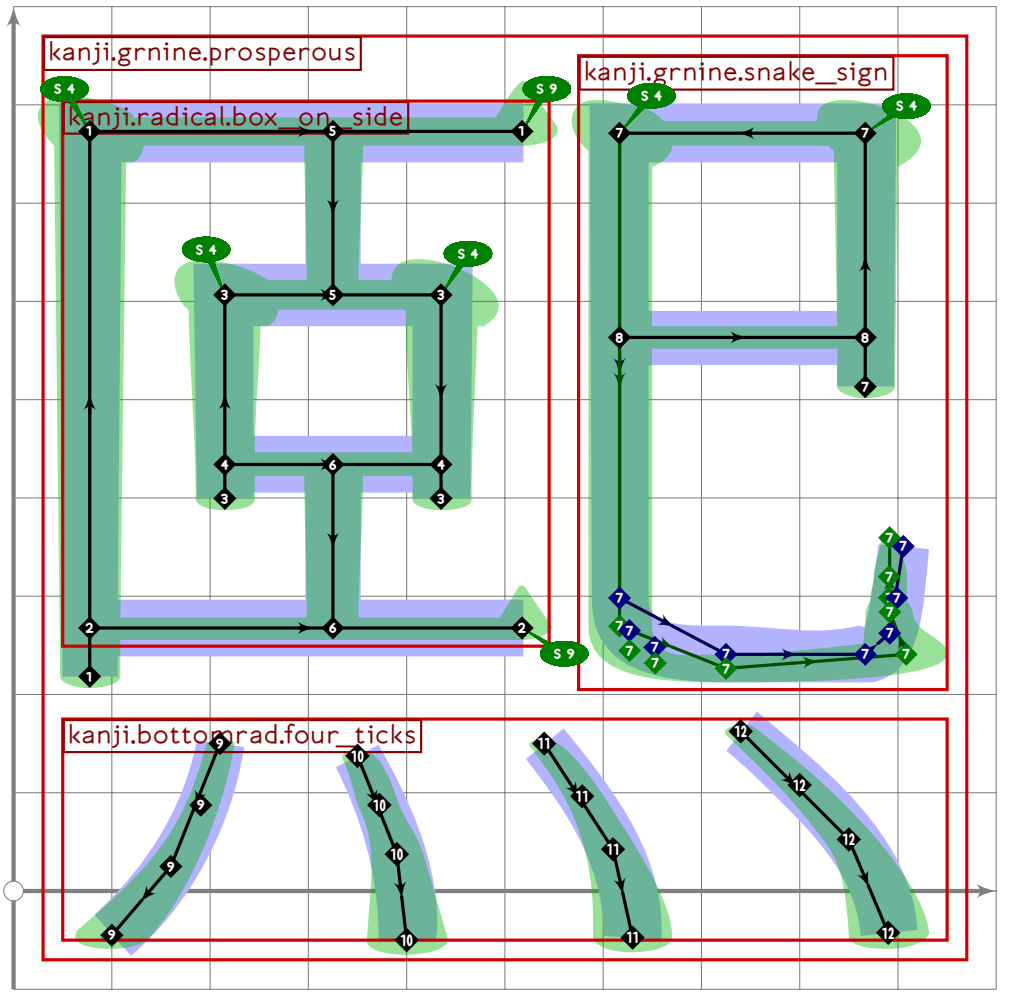



```
67
68 vardef  kanji.grfour.illuminate =
69   push_pbox_toexpand("kanji.grfour.illuminate");
70   build_kanji.tb(190,-30)
71     (kanji.grthree.shining)
72     (kanji.bottomrad.four_ticks);
73   expand_pbox;
74 enddef;
```




```
75
76 vardef kanji.grfour.nothing =
77   push_pbox_toexpand("kanji.grfour.nothing");
78   build_kanji.level(build_kanji.tb(230,-50)
79     (push_stroke((330,840){curl 0.1}..(230,660)..(90,480),
80       (1.7,1.7)–(1.5,1.5)–(1.1,1.1));
81     set_boserif(0,0,10);
82     push_stroke((260,680)–(260,-40),
83       (1.39,1.39)–(1.3,1.3));
84     push_stroke(
85       (((0,680)–(1000,680)) intersectionpoint get_strokep(-1))–(840,680),
86       (1.5,1.5)–(1.5,1.5));
87     set_boserif(0,1,9);
88     push_stroke((420,680)–(420,-40),
89       (1.4,1.4)–(1.3,1.3));
90     push_stroke((580,680)–(580,-40),
91       (1.4,1.4)–(1.3,1.3));
92     push_stroke((740,680)–(740,-40),
93       (1.4,1.4)–(1.3,1.3));
94     push_stroke((120,320)–(880,320),
95       (1.5,1.5)–(1.5,1.5));
```

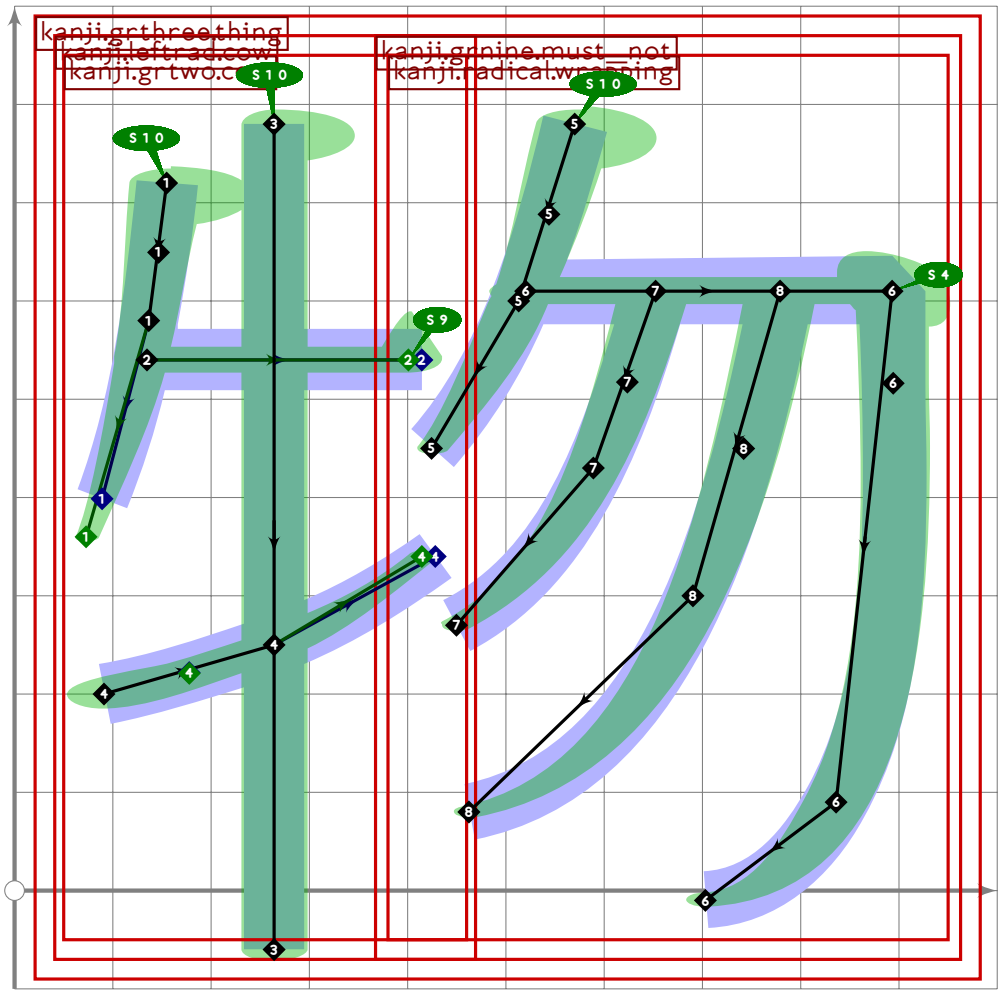
```
      set_boserif(0,1,9);
      push_stroke((140,-40)--(860,-40),
        (1.5,1.5)--(1.5,1.5));
      set_boserif(0,1,9))
    (kanji.bottomrad.four_ticks));
  expand_pbox;
enddef;
```




```

vardef kanji.grnine.prosperous =
  push_pbox_toexpand("kanji.grnine.prosperous");
  build_kanji.tb(190,-30)
    (build_kanji.lr(560,-30)
      (build_kanji.sscale(yscaled 0.86)
        (kanji.radical.box_on_side;
          build_kanji.box((350,530),(750,250));
          push_stroke((550,800)--(550,530),(1.5,1.5)--(1.4,1.4));
          push_stroke((550,250)--(550,-20),(1.5,1.5)--(1.4,1.4))))
      (kanji.grnine.snake_sign))
    (kanji.bottomrad.four_ticks);
```

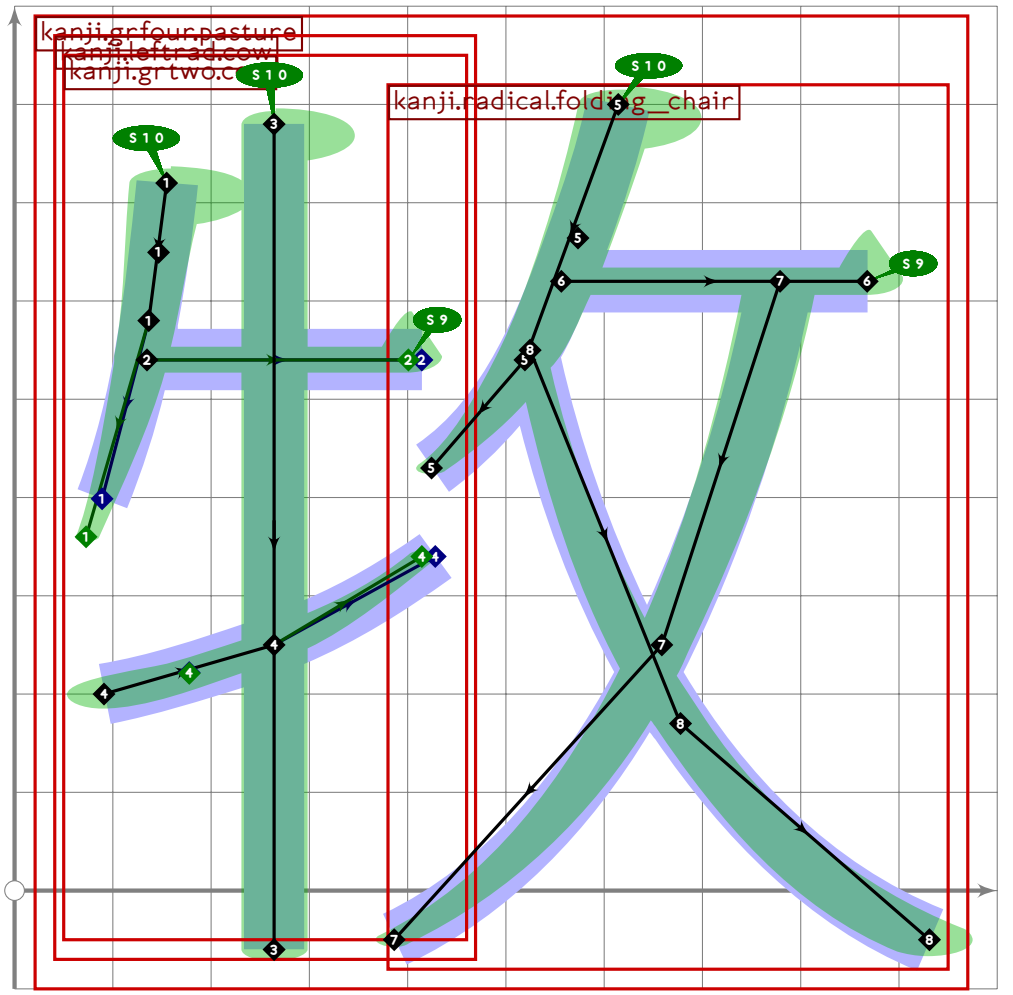
```
  expand_pbox;
enddef;

---

% mu/na "nothing"
begintsuglyph("uni7121",33);                                  [see page 2445]
  kanji.grfour.nothing;
  tsu_render;
endtsuglyph;

% shou/ya "cook"
begintsuglyph("uni713C",60);                                  [see page 2442]
  kanji.grfour.cook;
  tsu_render;
endtsuglyph;

% shou/te "illuminate"
begintsuglyph("uni7167",103);                                 [see page 2444]
  kanji.grfour.illuminate;
  tsu_render;
endtsuglyph;

% ki/tanoshi "prosperous"
begintsuglyph("uni7199",153);                                 [see page 2446]
  kanji.grnine.prosperous;
  tsu_render;
endtsuglyph;

% netsu/atsu "heat"
begintsuglyph("uni71B1",177);                                 [see page 2443]
  kanji.grfour.heat;
  tsu_render;
endtsuglyph;

---

endfont;

---
```

```
%
% Unicode page 72 (Kanji) for Tsukurimashou
% Copyright (C) 2011, 2012, 2013 Matthew Skala
%
[Standard copyright notice]

---

beginfont

% AUTODEPS
input buildkanji.mp;
input gradenine.mp;
input gradeone.mp;
input gradesix.mp;
input gradethree.mp;
input gradetwo.mp;
input radical.mp;

do_late_includes;

---
```

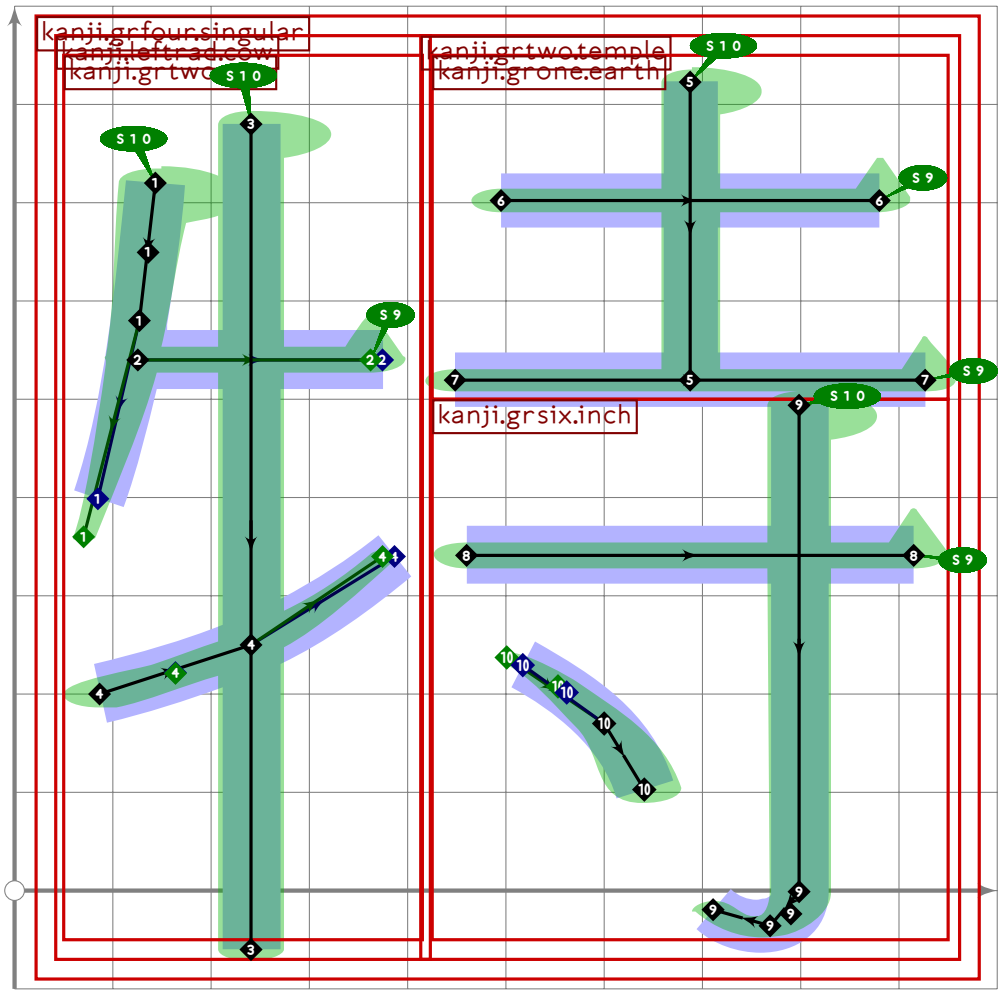



```
47
48 vardef kanji.grthree.thing =
49   push_pbox_toexpand("kanji.grthree.thing");
50   build_kanji.lr(420,80)
51     (kanji.leftrad.cow)
52     (kanji.grnine.must_not);
53   expand_pbox;
54 enddef;
55
56 ---------------------------------------------------------------------
```

U+7267
tsuku.uni7267

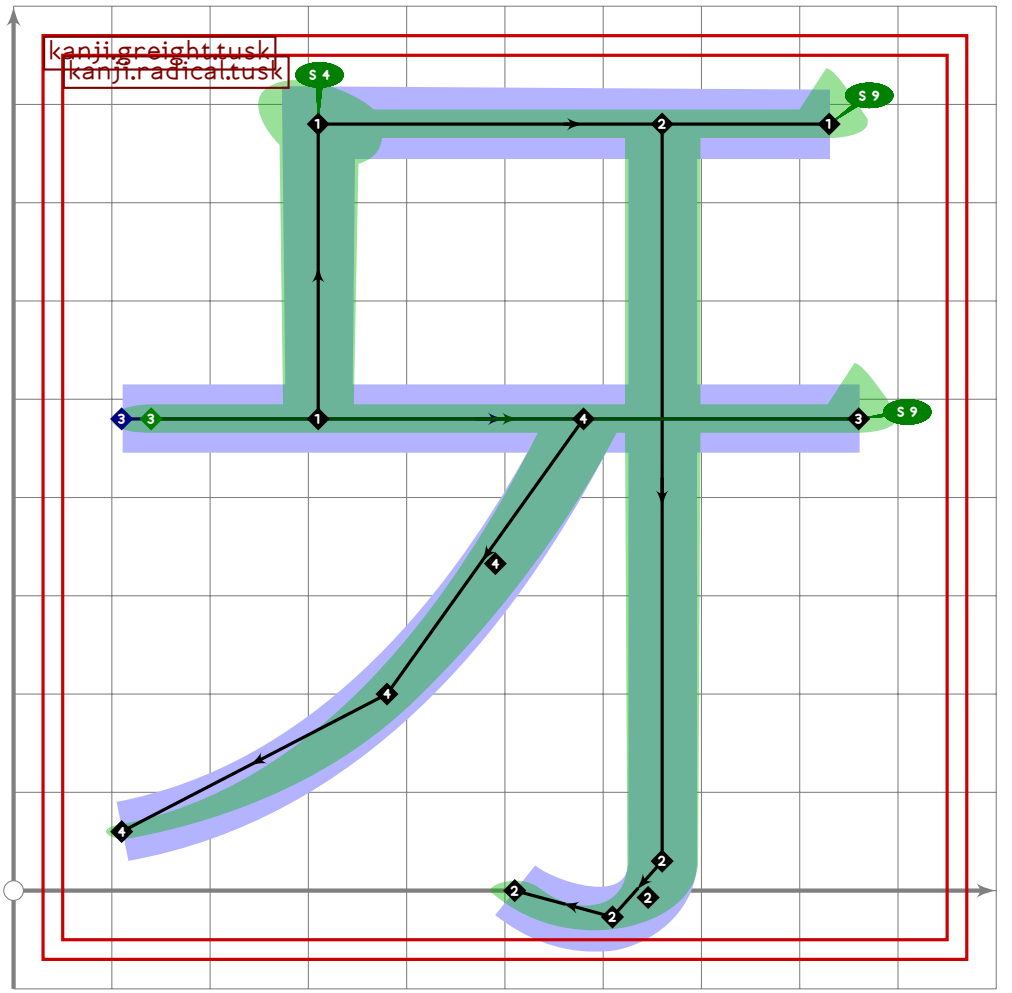



```
57
58 vardef kanji.grfour.pasture =
59   push_pbox_toexpand("kanji.grfour.pasture");
60   build_kanji.lr(420,80)
61     (kanji.leftrad.cow)
62     (build_kanji.sscale(shifted (0,-30))(kanji.radical.folding_chair));
63   expand_pbox;
64 enddef;
65
```



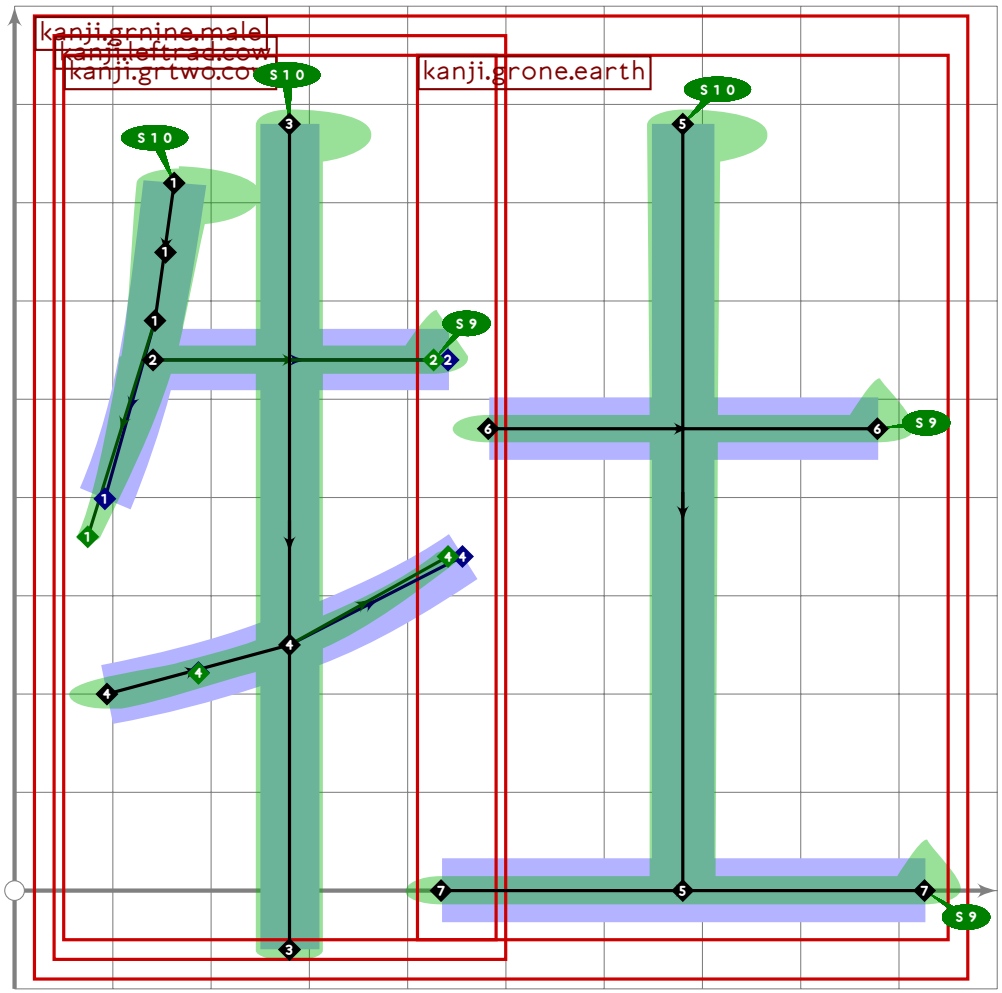

```
% "singular" because METAFONT reserves "special"
vardef kanji.grfour.singular =
  push_pbox_toexpand("kanji.grfour.singular");
  build_kanji.lr(420,-10)
    (kanji.leftrad.cow)
    (kanji.grtwo.temple);
  expand_pbox;
enddef;

```

U+7259
tsuku.uni7259



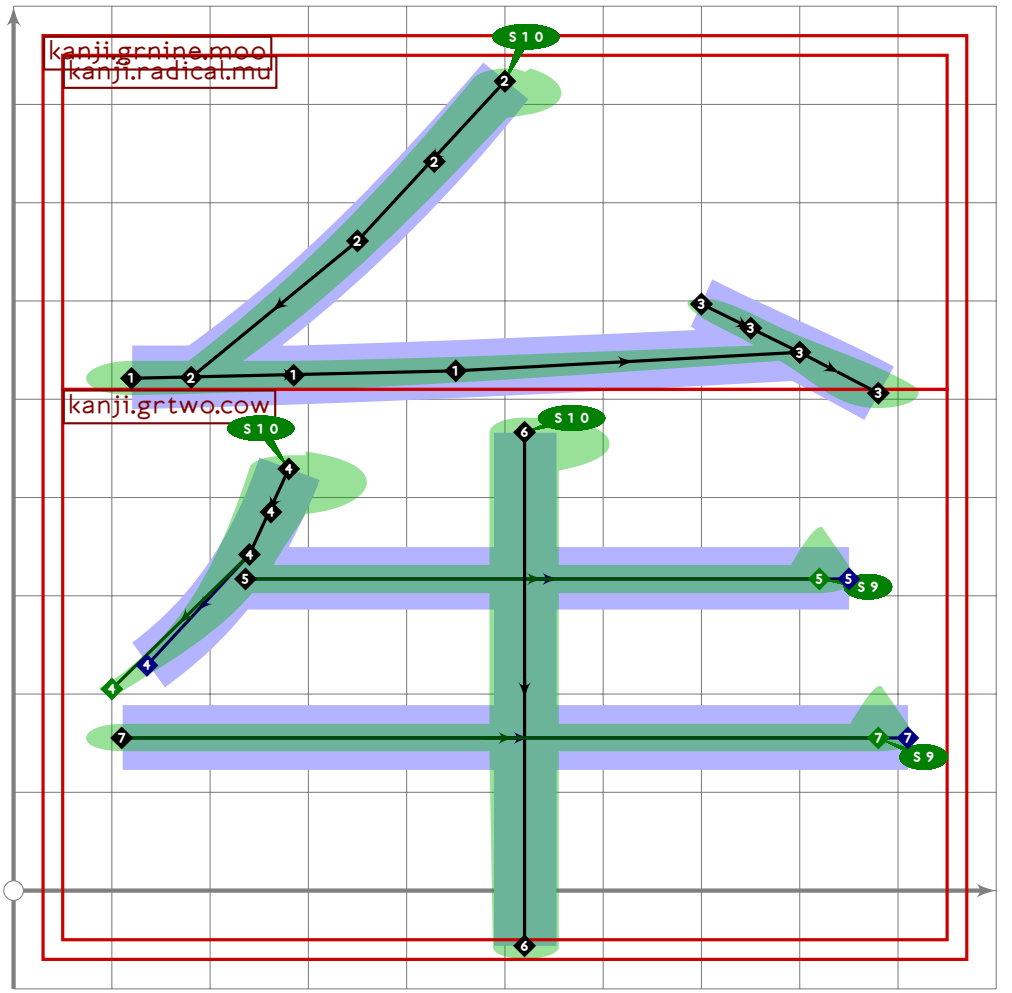

```
vardef kanji.greight.tusk =
  push_pbox_toexpand("kanji.greight.tusk");
  kanji.radical.tusk;
  replace_strokep(-4)((310,480)-(310,780)-(830,780));
  replace_strokeq(-4)((1.5,1.5)-(1.6,1.6)-(1.6,1.6));
  set_boserif(-4,1,4);
  set_boserif(-4,2,9);
  set_botip(-4,1,1);
  obstacktype[find_whatever(otstroke,-2)]:=otnull;
  expand_pbox;
enddef;
```

72



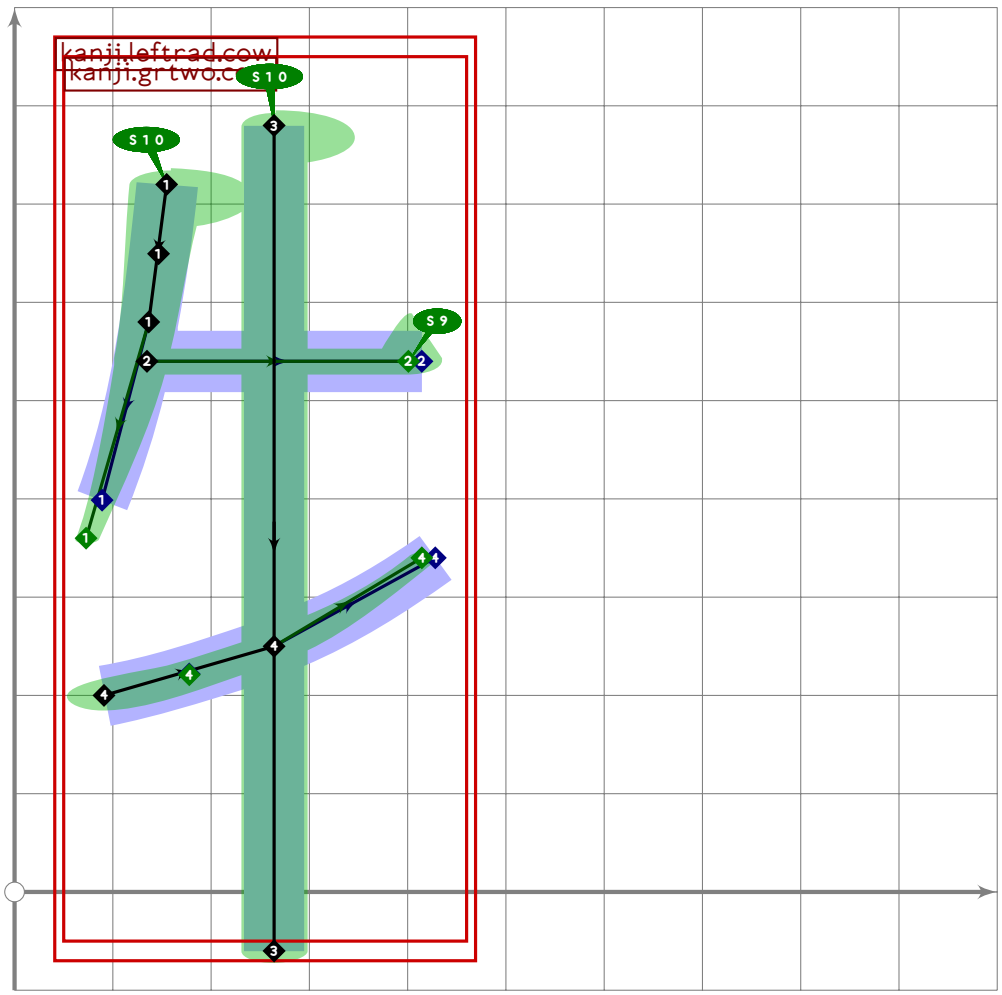

```
90
91 vardef  kanji.grnine.male =
92   push_pbox_toexpand("kanji.grnine.male");
93   build_kanji.lr(450,80)
94     (kanji.leftrad.cow)
95     (kanji.grone.earth);
96   expand_pbox;
97 enddef;
```

U+725F
tsuku.uni725F



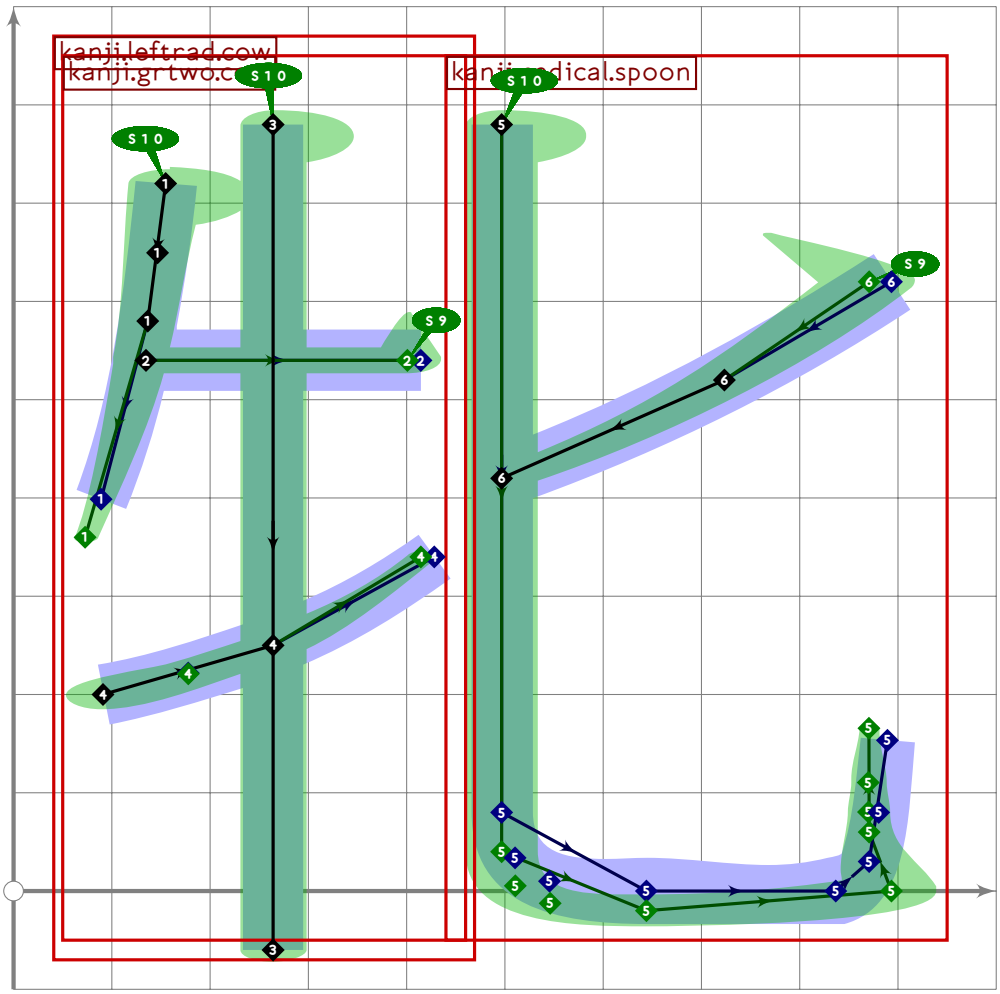

```
98
99  vardef  kanji.grnine.moo =
100   push_pbox_toexpand("kanji.grnine.moo");
101   build_kanji.tb(510,0)
102     (kanji.radical.mu)
103     (kanji.grtwo.cow);
104   expand_pbox;
105 enddef;
106
107 ---------------------------------------------------------------------
108
109 vardef  kanji.leftrad.cow =
110   push_pbox_toexpand("kanji.leftrad.cow");
111   kanji.grtwo.cow;
112   replace_strokep(0)((140,200)..tension  1.2..(520,250)..(880-30*mincho,340));
113   replace_strokeq(0)((1.7,1.7)--(1.5,1.5)--(1,1));
114   set_boserif(0,1,whatever);
115   expand_pbox;
116 enddef;
117
118 ---------------------------------------------------------------------
```

```
119
120 % chichi "father"
121 begintsuglyph("uni7236",54);                                    [see page 498]
122   kanji.grtwo.father;
123   tsu_render;
124 endtsuglyph;
125
126 % ga/kiba "tusk"
127 begintsuglyph("uni7259",89);                                    [see page 2452]
128   kanji.greight.tusk;
129   tsu_render;
130 endtsuglyph;
131
132 % kyuu/ushi "cow"
133 begintsuglyph("uni725B",91);                                    [see page 491]
134   kanji.grtwo.cow;
135   tsu_render;
136 endtsuglyph;
137
```

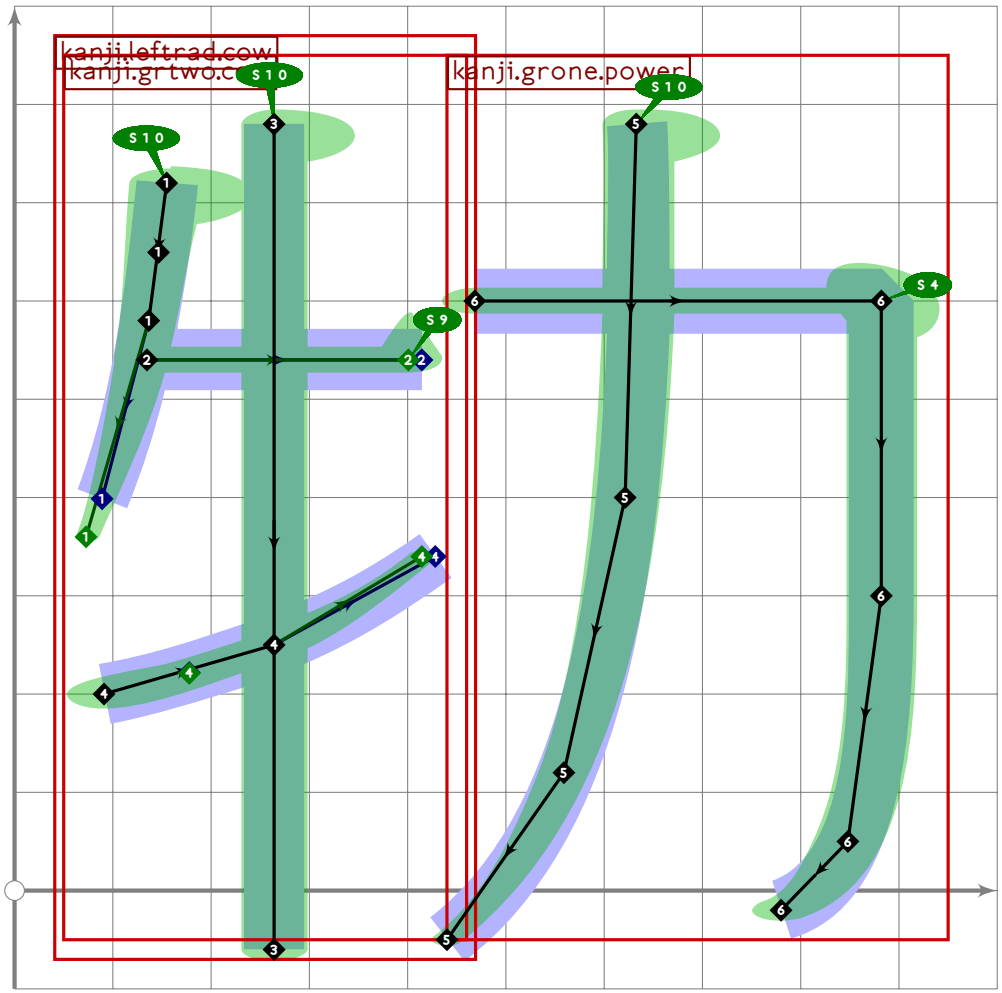



```
138 % naked cow radical
139 begintsuglyph("uni725C",92);
```

```
140   build_kanji.lr(450,20)(kanji.leftrad.cow)();
141   tsu_render;
142 endtsuglyph;
143
```



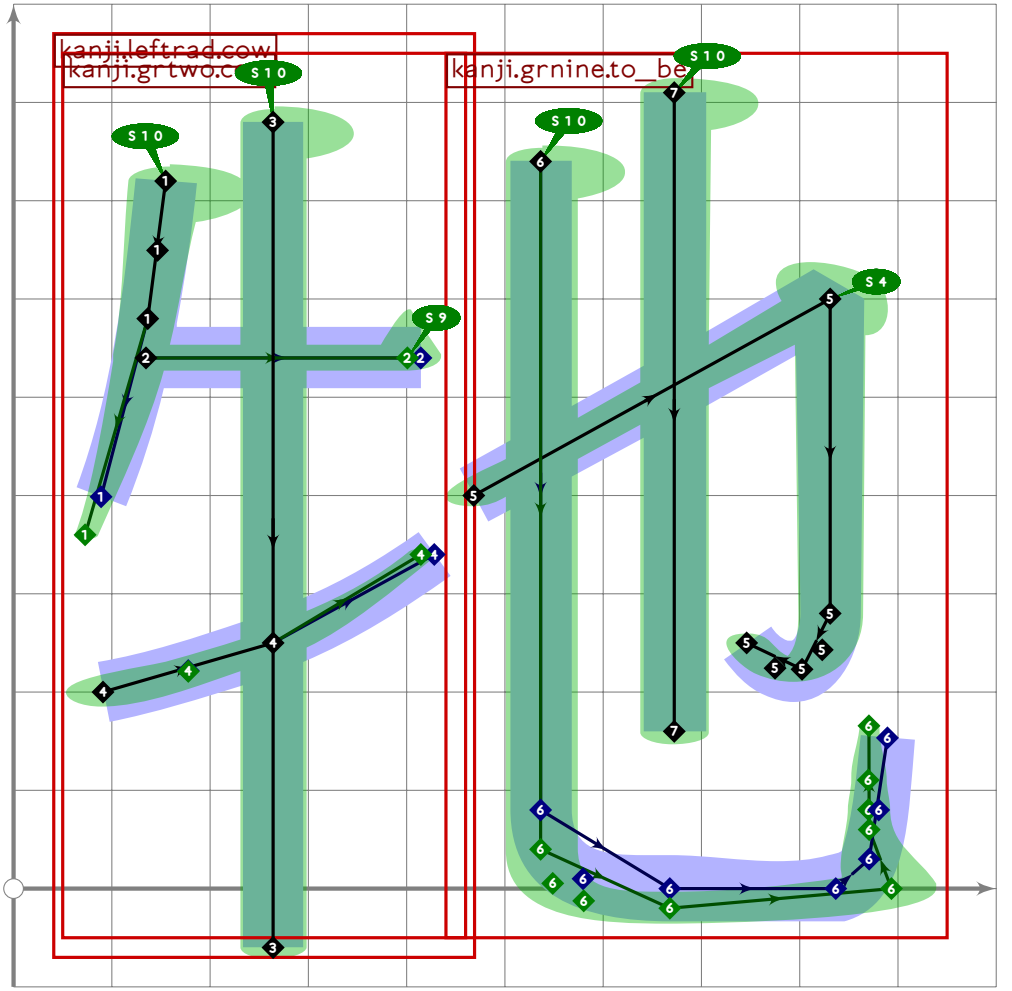

```
144 % extra "female"
145 begintsuglyph("uni725D",93);
146   build_kanji.lr(450,20)
147     (kanji.leftrad.cow)
148     (kanji.radical.spoon);
149   tsu_render;
150 endtsuglyph;
151
```




```
% extra
begintsuglyph("uni725E",94);
  build_kanji.lr(450,20)
    (kanji.leftrad.cow)
    (kanji.grone.power);
  tsu_render;
endtsuglyph;

% bou/mu "moo (cow sound)"
begintsuglyph("uni725F",95);
  kanji.grnine.moo;
  tsu_render;
endtsuglyph;

```

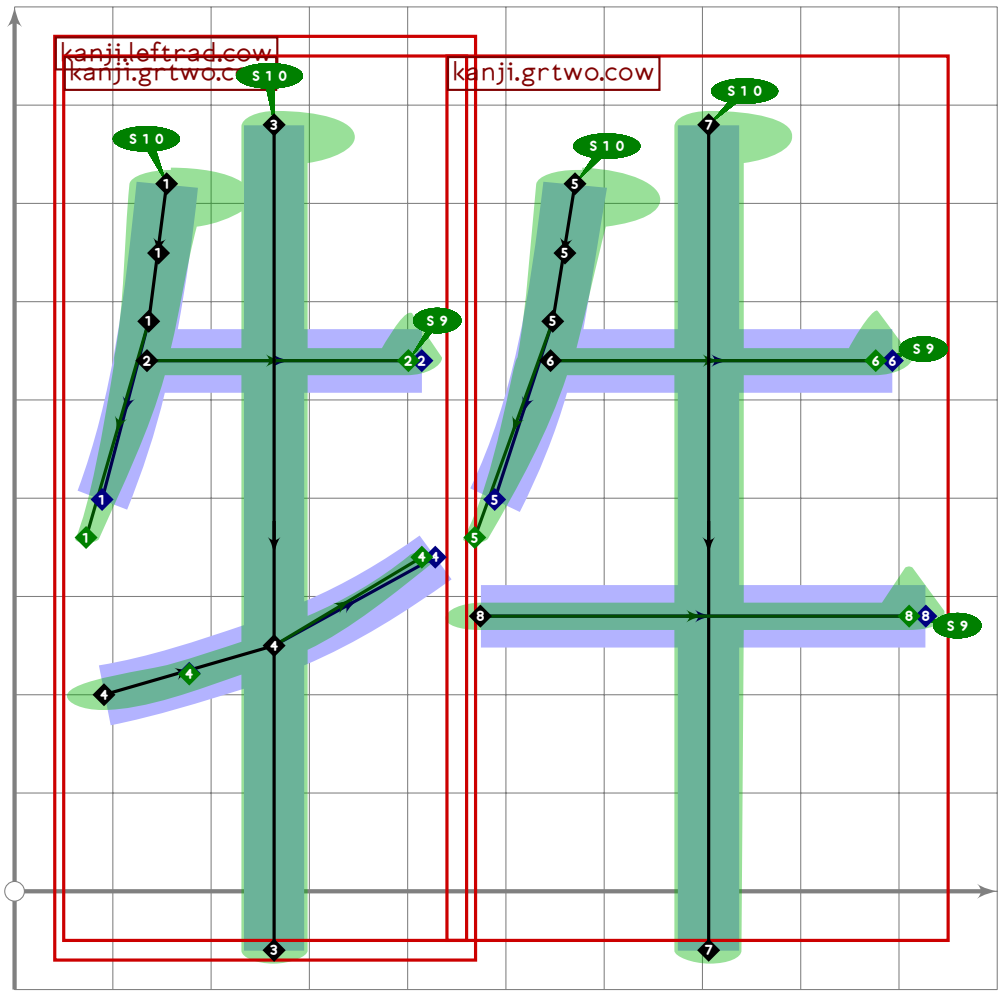
[see page 2454]

U+7260
tsuku.uni7260




```
% extra
begintsuglyph("uni7260",96);
  build_kanji.lr(450,20)
    (kanji.leftrad.cow)
    (kanji.grnine.to_be);
  tsu_render;
endtsuglyph;

% bo/osu "male (animal)"
begintsuglyph("uni7261",97);                                  [see page 2453]
  kanji.grnine.male;
  tsu_render;
endtsuglyph;

% boku/maki "pasture"
begintsuglyph("uni7267",103);                                 [see page 2450]
  kanji.grfour.pasture;
  tsu_render;
endtsuglyph;

% butsu/mono "thing"
```

```
begintsuglyph("uni7269",105);                                    [see page 593]
  kanji.grthree.thing;
  tsu_render;
endtsuglyph;

```



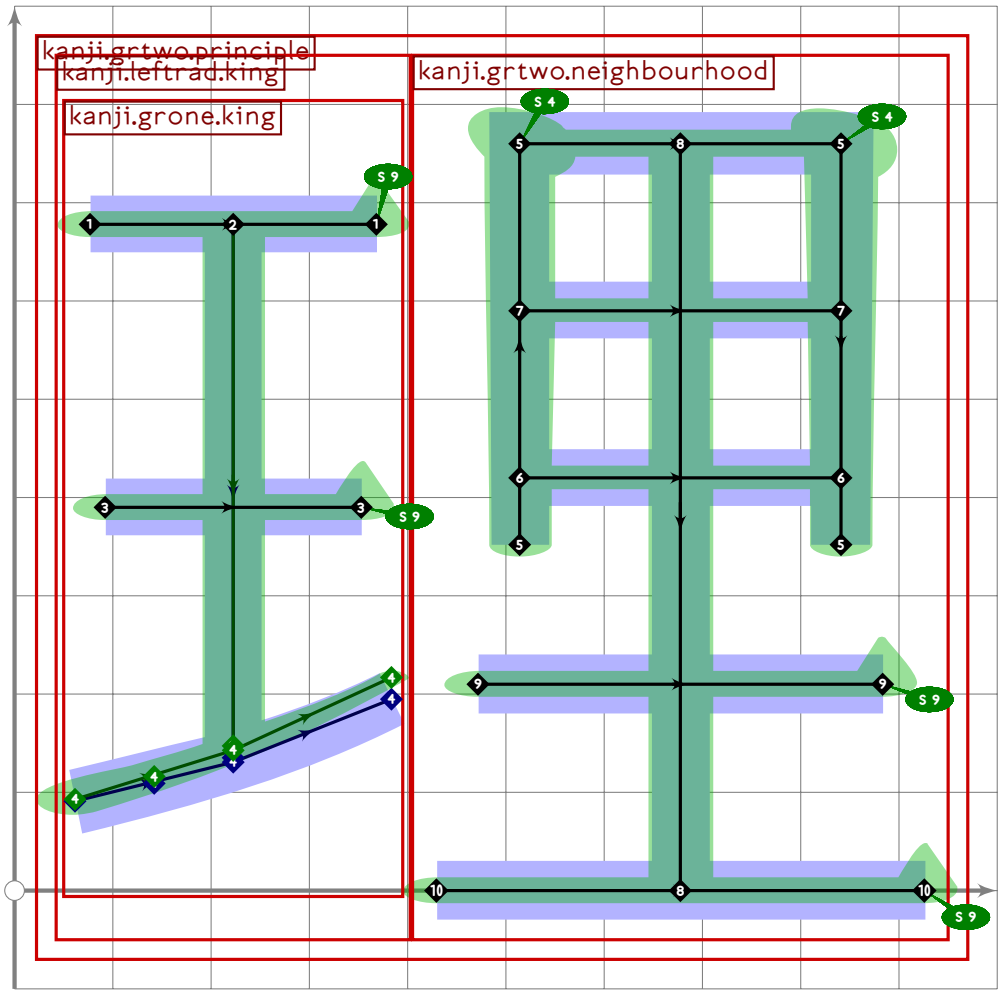

```
% extra
begintsuglyph("uni726A",106);
  build_kanji.lr(450,20)
    (kanji.leftrad.cow)
    (kanji.grtwo.cow);
  tsu_render;
endtsuglyph;

% toku "special"
begintsuglyph("uni7279",121);                                    [see page 2451]
  kanji.grfour.singular;
  tsu_render;
endtsuglyph;

% inu "dog"
begintsuglyph("uni72AC",172);                                    [see page 424]
```

```
  kanji.grone.dog;
  tsu_render;
endtsuglyph;

---

endfont;

---
```

tsuku-73.mp

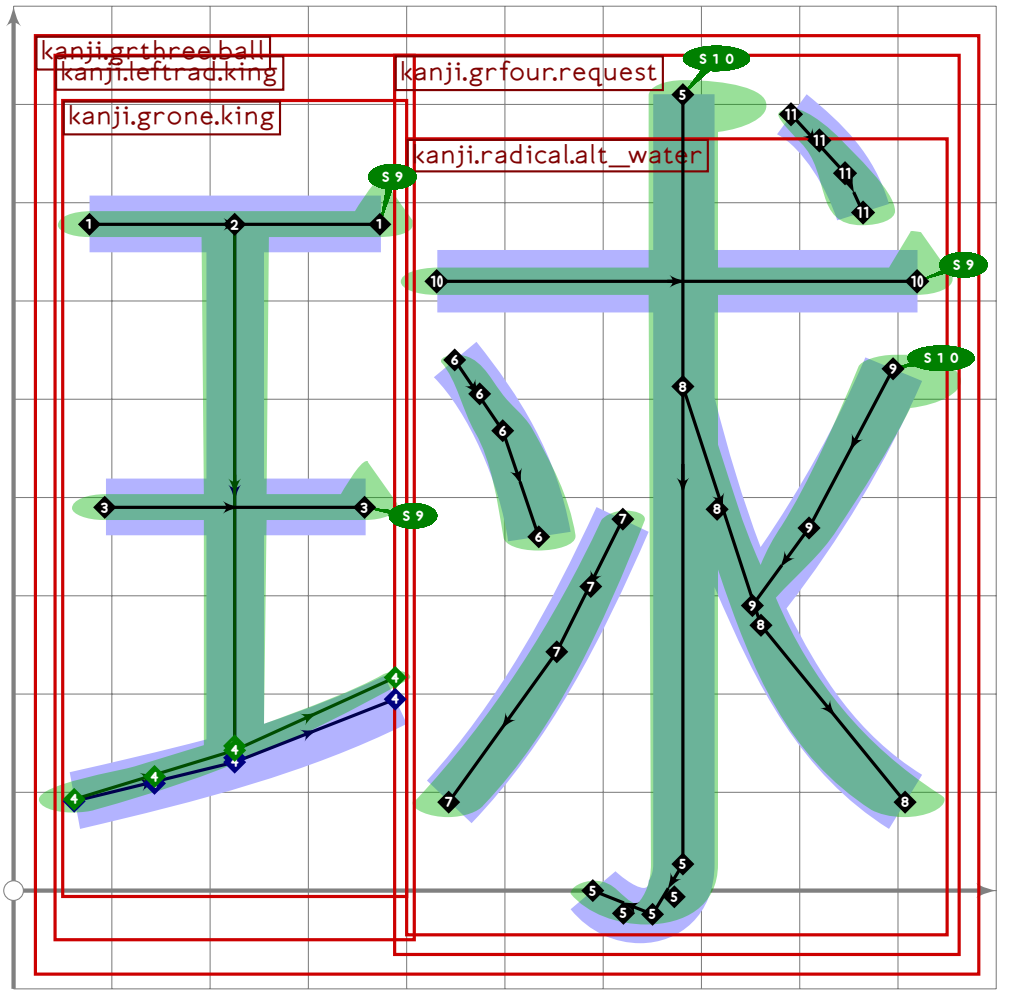
```
%
% Unicode page 73 (Kanji) for Tsukurimashou
% Copyright (C) 2011, 2012 Matthew Skala
%
[Standard copyright notice]

--------------------------------------------------------------------------------

beginfont

% AUTODEPS
input gradeone.mp;

do_late_includes;

--------------------------------------------------------------------------------

% gyoku/tama "ball" or "precious"
begintsuglyph("uni7389",137);                                   [see page 414]
  kanji.grone.ball;
  tsu_render;
endtsuglyph;

% ou "king"
begintsuglyph("uni738B",139);                                   [see page 441]
  kanji.grone.king;
  tsu_render;
endtsuglyph;

--------------------------------------------------------------------------------

endfont;

--------------------------------------------------------------------------------
```

```
%
% Unicode page 74 (Kanji) for Tsukurimashou
% Copyright (C) 2011, 2012 Matthew Skala
%
[Standard copyright notice]

---

beginfont

% AUTODEPS
input buildkanji.mp;
input gradefour.mp;
input gradeone.mp;
input gradetwo.mp;
input leftrad.mp;
input radical.mp;

do_late_includes;

---
```




```
46
47 vardef  kanji.grtwo.principle =
48   push_pbox_toexpand("kanji.grtwo.principle");
49   build_kanji.lr(400,-10)
50     (kanji.leftrad.king)
51     (kanji.grtwo.neighbourhood);
52   expand_pbox;
53 enddef;
54
55 ---------------------------------------------------------------------------
```

U+7403
tsuku.uni7403

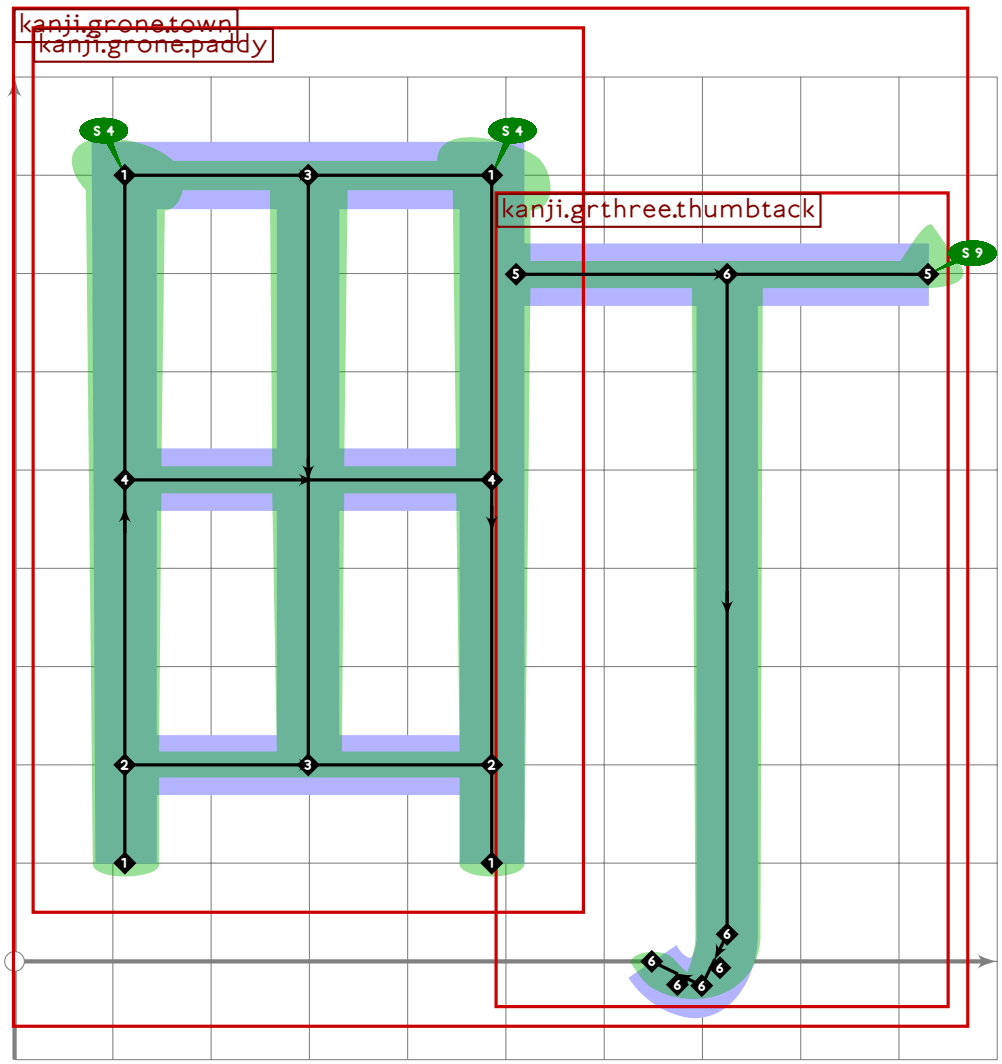



```
56
57 vardef kanji.grthree.ball =
58   push_pbox_toexpand("kanji.grthree.ball");
59   build_kanji.lr(400,0)
60     (kanji.leftrad.king)
61     (kanji.grfour.request);
62   expand_pbox;
63 enddef;
64
65 ---------------------------------------------------------------------
66
67 % kyuu/tama "ball" (as in baseball)
68 begintsuglyph("uni7403",3);                                [see page 2464]
69   kanji.grthree.ball;
70   tsu_render;
71 endtsuglyph;
72
73 % ri/kotowari "principle"
74 begintsuglyph("uni7406",6);                                [see page 2463]
75   kanji.grtwo.principle;
76   tsu_render;
```

```
endtsuglyph;

---

endfont;

---
```

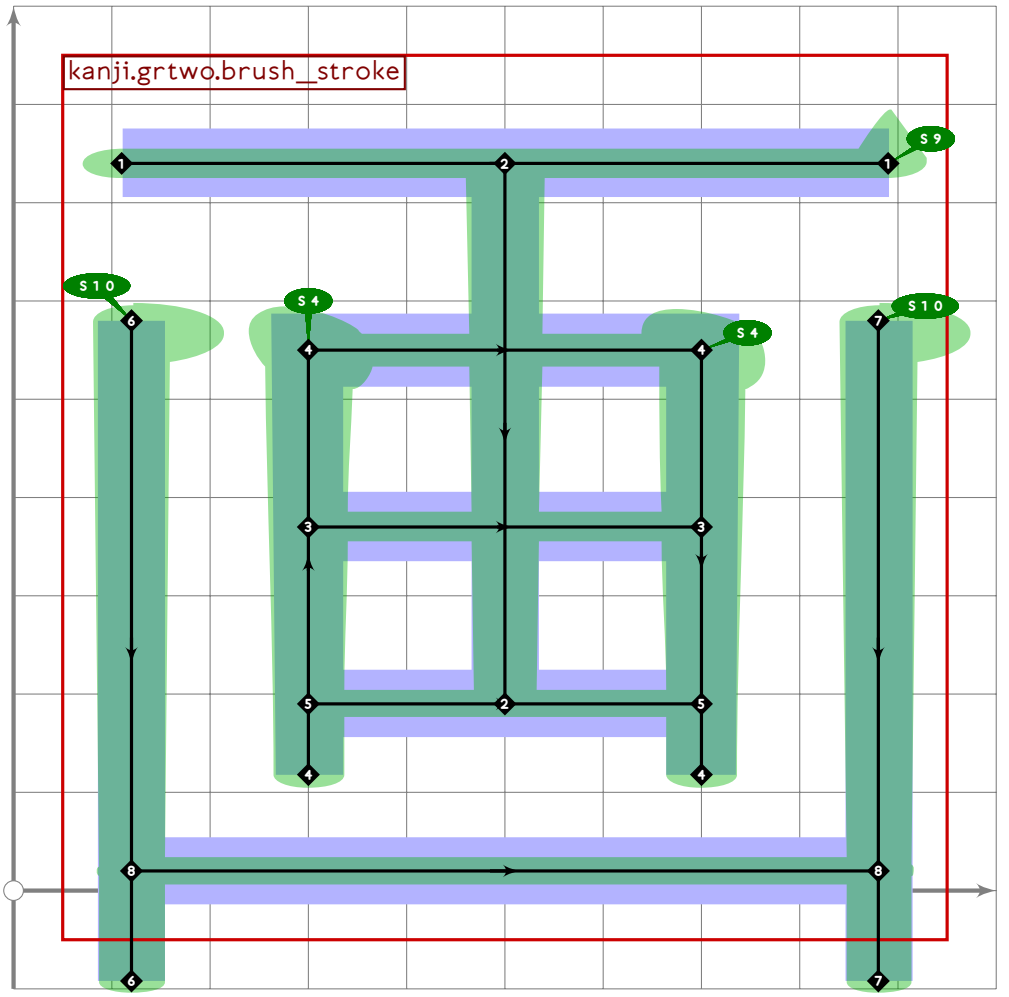
tsuku-75.mp

```
%
% Unicode page 75 (Kanji) for Tsukurimashou
% Copyright (C) 2011, 2012, 2013 Matthew Skala
%
[Standard copyright notice]

---

beginfont

% AUTODEPS
input buildkanji.mp;
input gradeeight.mp;
input gradefour.mp;
input gradenine.mp;
input gradeone.mp;
input gradesix.mp;
input gradethree.mp;
input gradetwo.mp;
input leftrad.mp;
input radical.mp;
input rare.mp;
input toprad.mp;

do_late_includes;

---
```

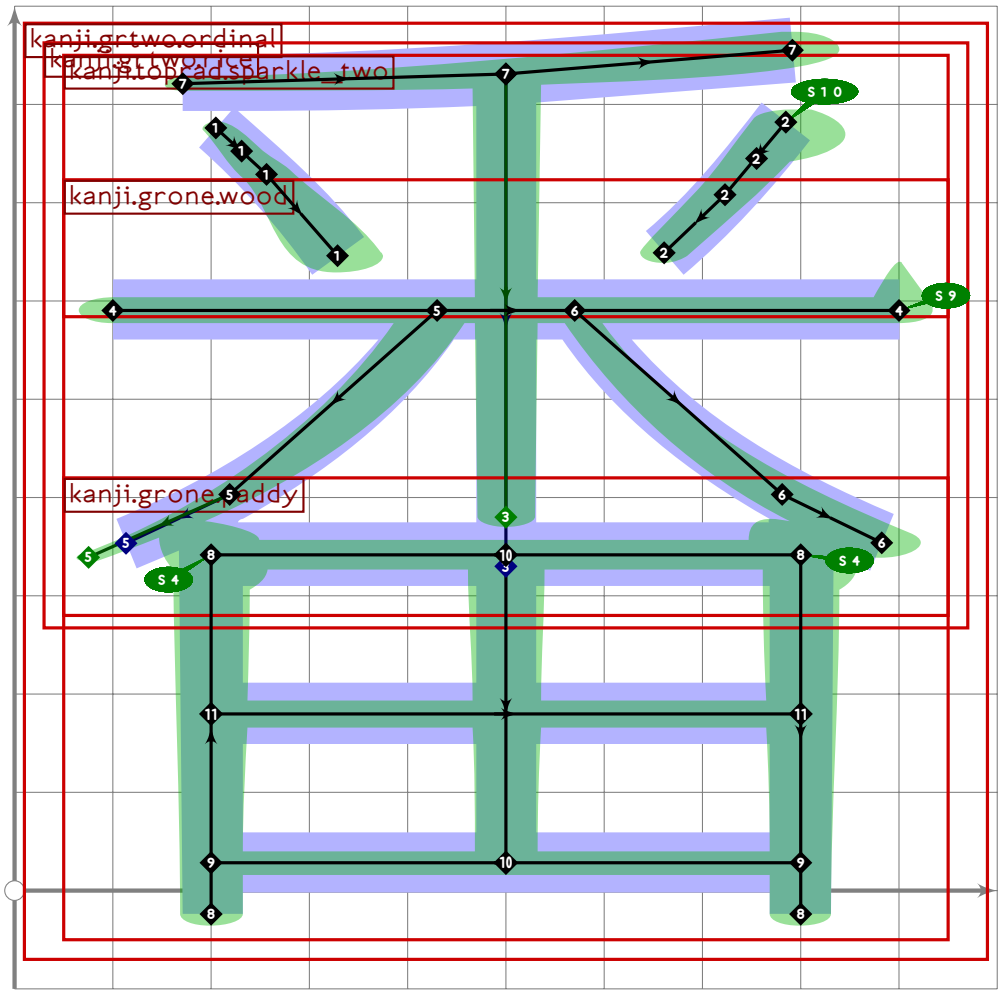



```
52
53 vardef kanji.grone.town =
54   push_pbox_toexpand("kanji.grone.town");
55   build_kanji.level(build_kanji.lr(550,120)
56     (tsu_xform(identity shifted (-50,100))(kanji.grone.paddy))
57     (tsu_xform(identity yscaled 0.92)
58       (kanji.grthree.thumbtack)));
59   expand_pbox;
60 enddef;
61
62 ---------------------------------------------------------------------------
```

U+753B
tsuku.uni753B

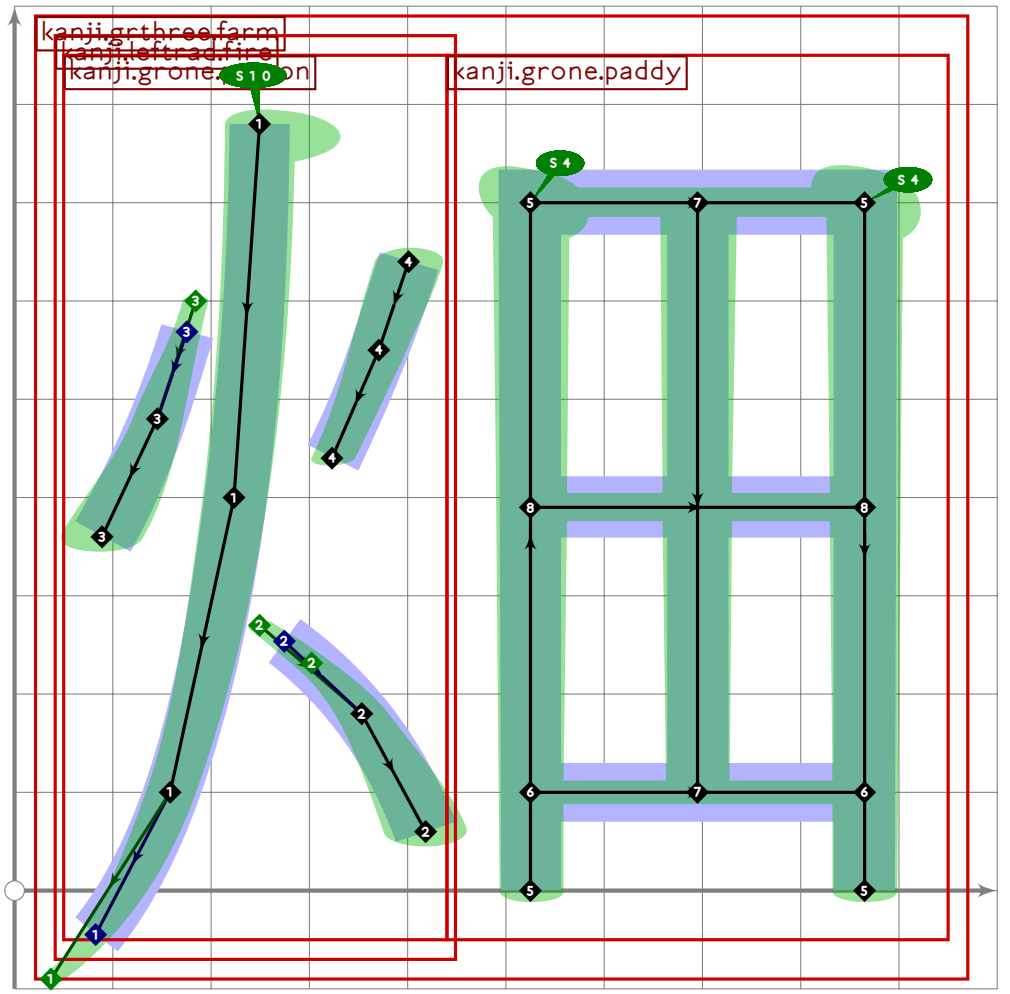



```
63
64 vardef kanji.grtwo.brush_stroke =
65   push_pbox_toexpand("kanji.grtwo.brush_stroke");
66   push_stroke((110,740)–(890,740),(1.6,1.6)–(1.6,1.6));
67   set_boserif(0,1,9);
68   push_stroke((500,740)–(500,190),
69     (1.6,1.6)–(1.4,1.4));
70   push_stroke((300,370)–(700,370),
71     (1.6,1.6)–(1.6,1.6));
72   build_kanji.box((300,550),(700,190));
73   build_kanji.cup((120,580),(880,20));
74   expand_pbox;
75 enddef;
```

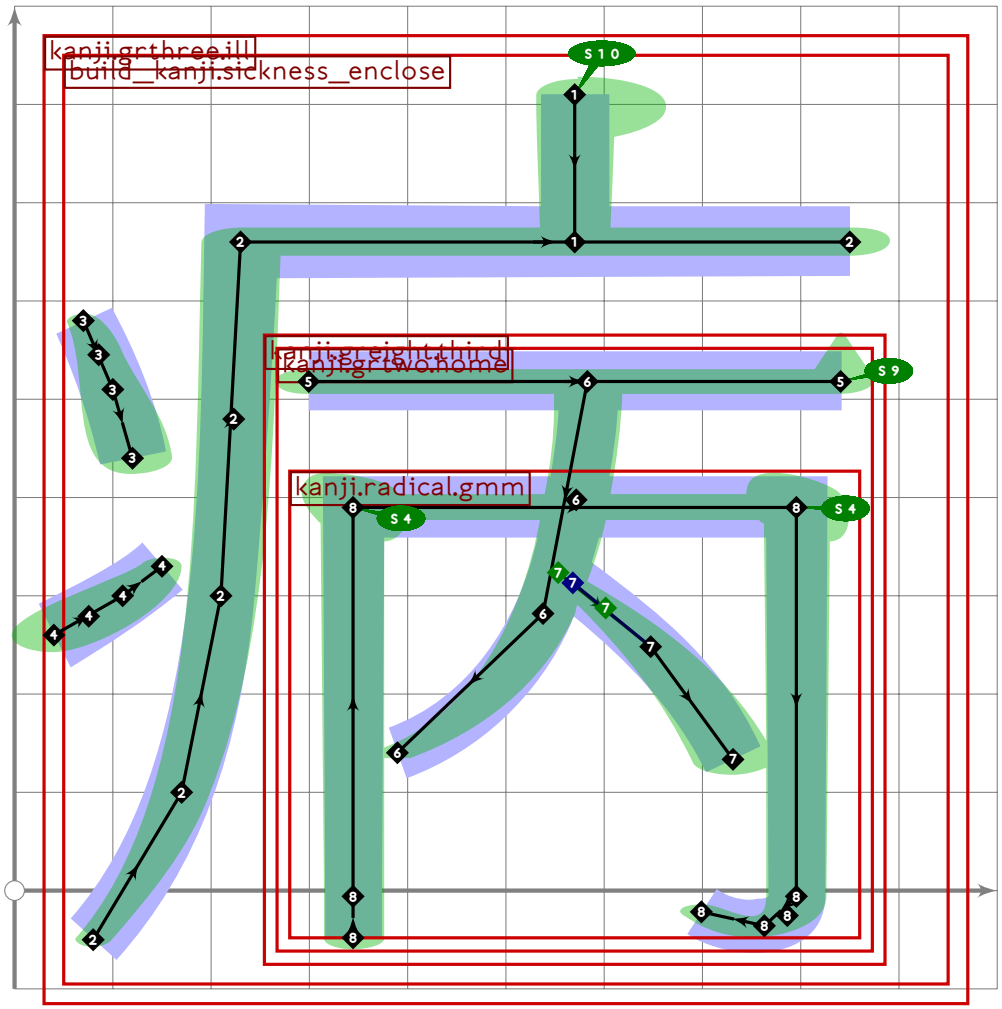



```
76
77 vardef kanji.grtwo.ordinal =
78   push_pbox_toexpand("kanji.grtwo.ordinal");
79   build_kanji.level(build_kanji.tb(350,140)
80     (build_kanji.spread_legs(140)(build_kanji.add_beret(
81         kanji.grtwo.rice)))
82     (kanji.grone.paddy));
83   replace_strokep(-8)((point 0 of oldp)-(500,330+50*mincho));
84   expand_pbox;
85 enddef;
86
87 ---------------------------------------------------------------
```

U+7551
tsuku.uni7551

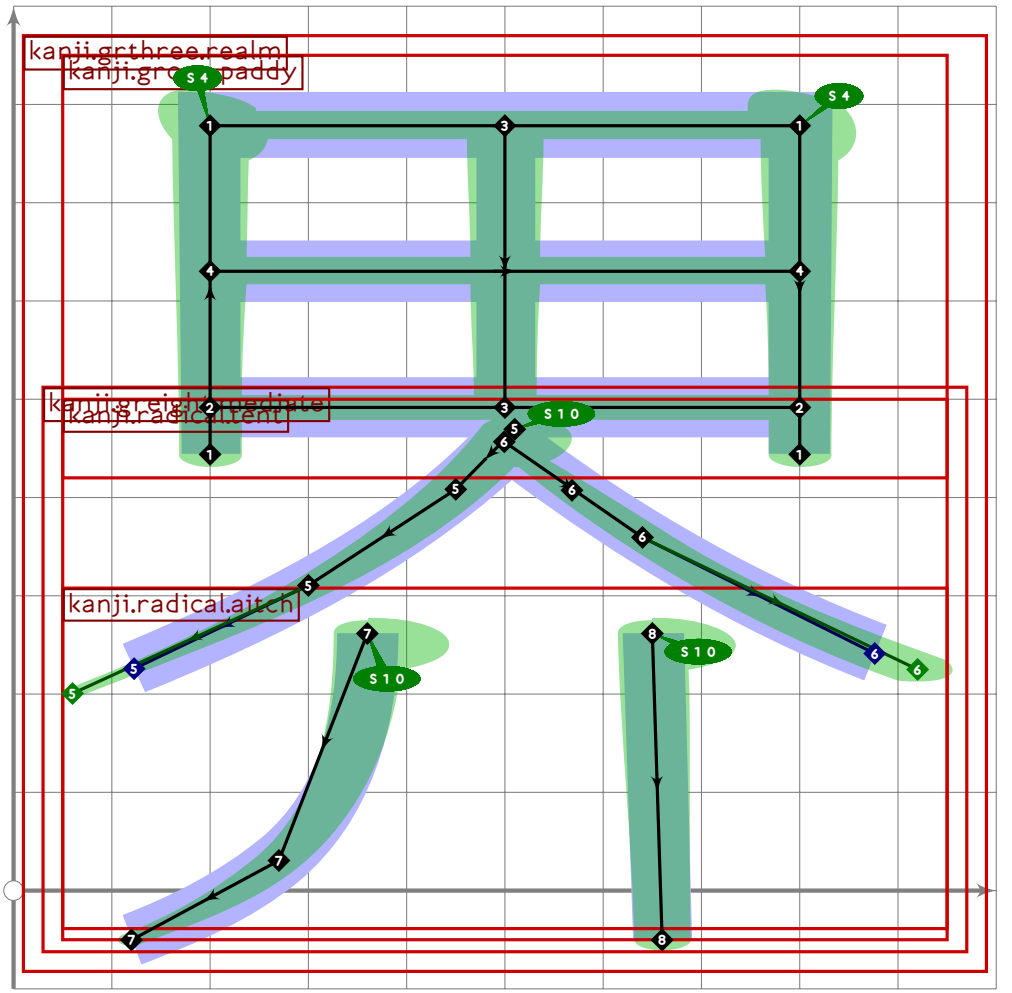



```
88
89 vardef  kanji.grthree.farm =
90   push_pbox_toexpand("kanji.grthree.farm");
91   build_kanji.level(build_kanji.lr(440,0)
92     (kanji.leftrad.fire)
93     (kanji.grone.paddy));
94   expand_pbox;
95 enddef;
```

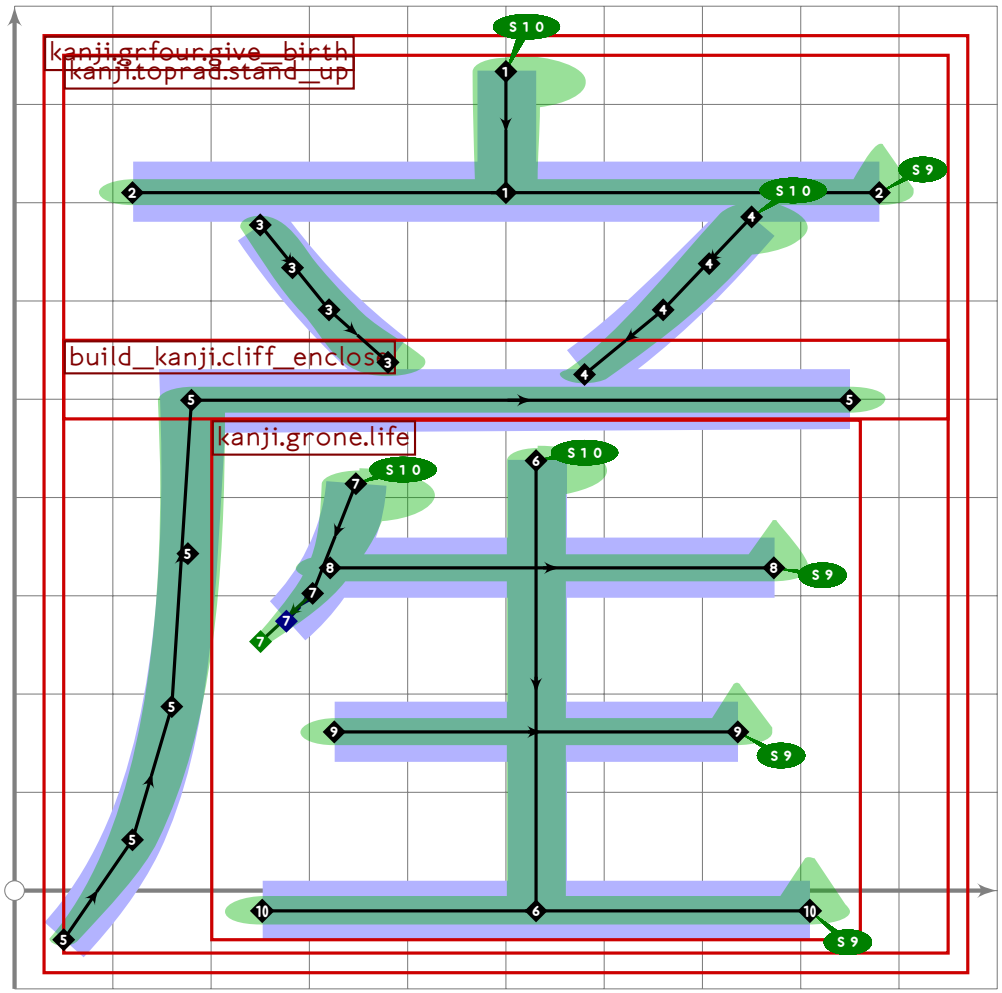



```
96
97 vardef kanji.grthree.ill =
98   push_pbox_toexpand("kanji.grthree.ill");
99   build_kanji.sickness_enclose(tsu_xform(identity yscaled 0.88)
100    (kanji.greight.third));
101  expand_pbox;
102 enddef;
```

U+754C
tsuku.uni754C




```
103
104 vardef  kanji.grthree.realm =
105   push_pbox_toexpand("kanji.grthree.realm");
106   build_kanji.level(build_kanji.tb(460,80)
107     (kanji.grone.paddy)
108     (kanji.greight.mediate));
109   expand_pbox;
110 enddef;
111
112 ---------------------------------------------------------------------------
```

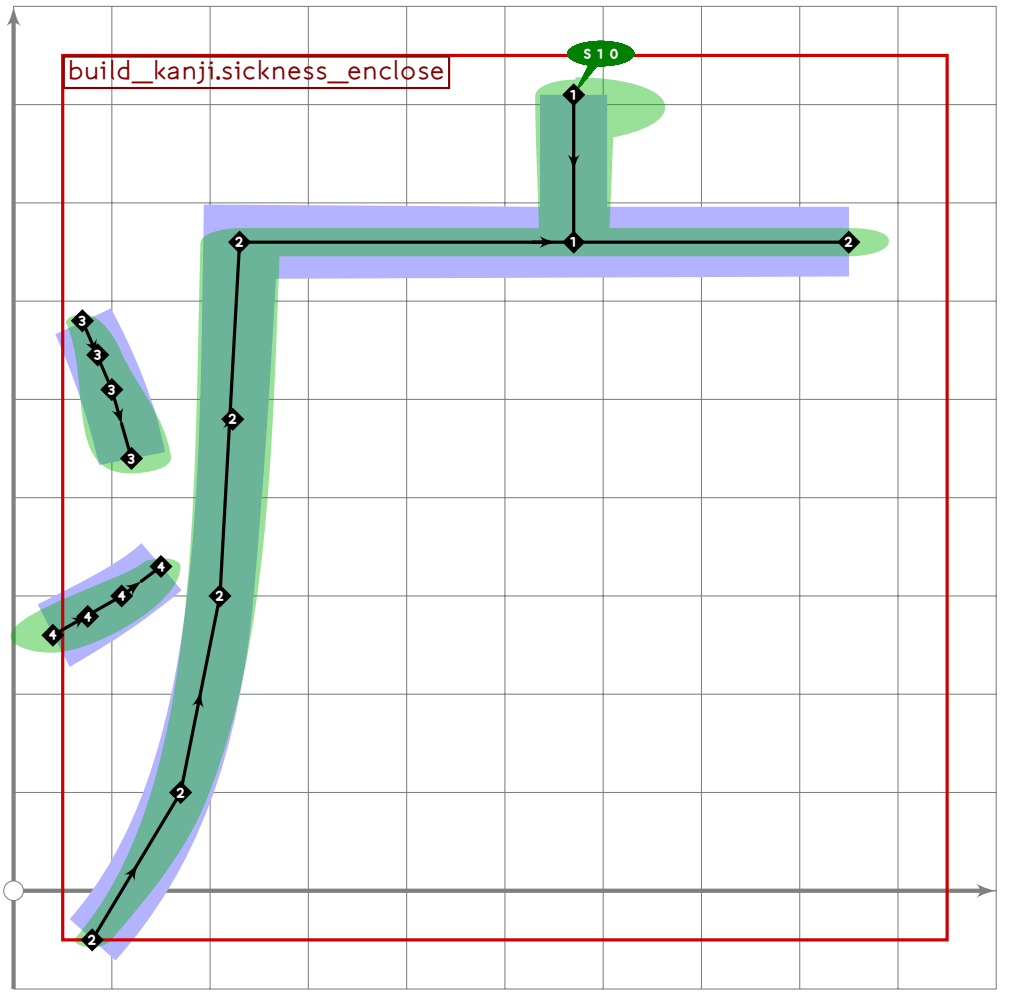



```
113
114 vardef kanji.grfour.give_birth =
115   push_pbox_toexpand("kanji.grfour.give_birth");
116   build_kanji.level(build_kanji.tb(520,80)
117     (kanji.toprad.stand_up;pop_stroke)
118     (build_kanji.cliff_enclose(build_kanji.sscale(shifted (-40,0))
119         (kanji.grone.life))));
120   expand_pbox;
121 enddef;
122
123 ---------------------------------------------------------------------------
124
125 vardef build_kanji.sickness_enclose(text contents) =
126   push_pbox_toexpand("build_kanji.sickness_enclose");
127   perl_structure:=perl_structure&"eids.u2FF8.u7592.2_";
128   push_stroke((570,810)--(570,660),
129     (1.6,1.6)--(1.5,1.5));
130   set_boserif(0,0,10);
131   push_stroke(
132     (80,-50)..(170,100)..(210,300)..tension 1.2..(230,660)--(850,660),
133     (1,1)--(1.3,1.3)--(1.5,1.5)--(1.6,1.6)--(1.6,1.6));
```

```
  set_botip(0,3,1);
  push_stroke((70,580)..tension 1.2..(100,510)..(120,440),
    (1,1)--(1.4,1.4)--(1.6,1.6));
  push_stroke((40,260)..tension 1.2..(110,300)..(150,330),
    (1.7,1.7)--(1.5,1.5)--(1.1,1.1));
  begingroup
    save t;
    transform t;
    (50,-50) transformed t=(280,-60);
    (500,-50) transformed t=(570,-60);
    (500,850) transformed t=(570,630);
    tsu_xform(t)(contents);
  endgroup;
  expand_pbox;
enddef;

% kan/ama "sweet"
begintsuglyph("uni7518",24);                                [see page 765]
  kanji.greight.sweet;
  tsu_render;
endtsuglyph;

% sei/ki "life"
begintsuglyph("uni751F",31);                                [see page 442]
  kanji.grone.life;
  tsu_render;
endtsuglyph;

% san/u "give birth"
begintsuglyph("uni7523",35);                                [see page 2473]
  kanji.grfour.give_birth;
  tsu_render;
endtsuglyph;

% you/mochi "job"
begintsuglyph("uni7528",40);                                [see page 513]
  kanji.grtwo.job;
  tsu_render;
endtsuglyph;

% you "walled road"
begintsuglyph("uni752C",44);                                [see page 843]
  kanji.rare.walled_road;
  tsu_render;
endtsuglyph;
```

```
% ta "rice paddy"
begintsuglyph("uni7530",48);                                    [see page 454]
  kanji.grone.paddy;
  tsu_render;
endtsuglyph;

% yu/yoshi "reason" or "cause"
begintsuglyph("uni7531",49);                                    [see page 589]
  kanji.grthree.reason;
  tsu_render;
endtsuglyph;

% shin/mou "have the honour to," "monkey zodiac sign," etc.
begintsuglyph("uni7533",51);                                    [see page 574]
  kanji.grthree.have_honour;
  tsu_render;
endtsuglyph;

% otoko "man"
begintsuglyph("uni7537",55);                                    [see page 444]
  kanji.grone.man;
  tsu_render;
endtsuglyph;

% chuu/machi "town"
begintsuglyph("uni753A",58);                                    [see page 2467]
  kanji.grone.town;
  tsu_render;
endtsuglyph;

% ga/ega "brush stroke" (or "picture" but that is reserved)
begintsuglyph("uni753B",59);                                    [see page 2468]
  kanji.grtwo.brush_stroke;
  tsu_render;
endtsuglyph;

% kai "realm" (actually "world" but that is a collision)
begintsuglyph("uni754C",76);                                    [see page 2472]
  kanji.grthree.realm;
  tsu_render;
endtsuglyph;

% fuku "roll of cloth"
begintsuglyph("uni7550",80);                                    [see page 836]
  kanji.rare.roll_of_cloth;
  tsu_render;
endtsuglyph;

```

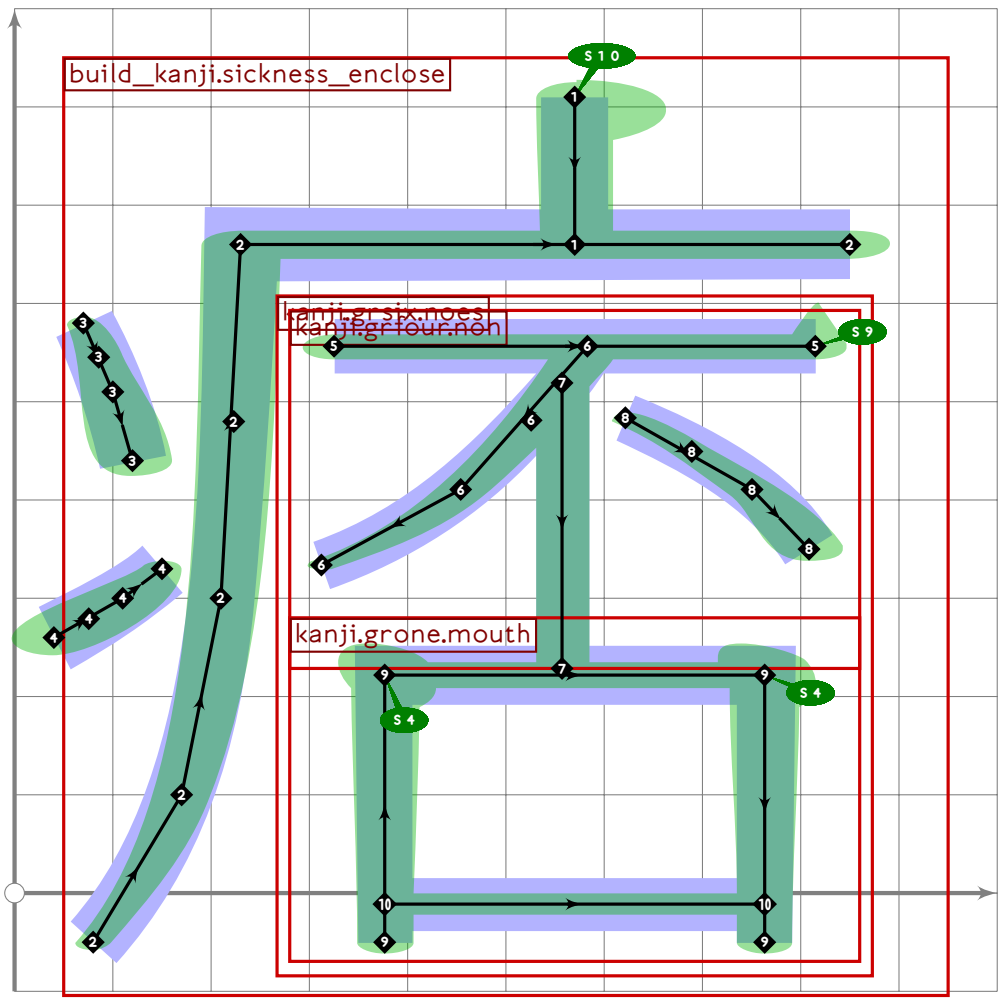
```
% hata "farm"
begintsuglyph("uni7551",81);                                    [see page 2470]
  kanji.grthree.farm;
  tsu_render;
endtsuglyph;

% ban/tsuga "ordinal number"
begintsuglyph("uni756A",106);                                   [see page 2469]
  kanji.grtwo.ordinal;
  tsu_render;
endtsuglyph;

% hiki/ashi "head" (counter for animals)
begintsuglyph("uni758B",139);                                   [see page 772]
  kanji.grnine.animal_counter;
  tsu_render;
endtsuglyph;
```




```
% extra: sickness enclosure radical
begintsuglyph("uni7592",146);
  build_kanji.sickness_enclose();
```

```
  tsu_render;
endtsuglyph;

% byou/ya "ill"
begintsuglyph("uni75C5",197);
  kanji.grthree.ill;
  tsu_render;
endtsuglyph;
```

[see page 2471]




```
% extra: hi/tsukae "constipation"
begintsuglyph("uni75DE",222);
  build_kanji.sickness_enclose(build_kanji.sscale
    (yscaled 0.96 shifted (0,-30))
    (kanji.grsix.noes));
  tsu_render;
endtsuglyph;

endfont;
```