

---

```
1 var branah={
2 }
3 ;
4 branah.util={keyCode:function(b)
5 {
6     if(!b)
7     {
8         var b=window.event
9     }
10    if($.browser.mozilla)
11    {
12        var a=b.keyCode;
13        switch(a)
14        {
15            case 59:a=186;
16            break;
17            case 107:a=187;
18            break;
19            case 109:a=189;
20            break;
21            case 61:a=187;
22            break;
23            case 173:a=189;
24            break
25        }
26        return a
27    }
28    if($.browser.opera)
29    {
30        var a=b.keyCode;
31        switch(a)
32        {
33            case 59:a=186;
34            break;
35            case 61:a=187;
36            break;
37            case 109:a=189;
38            break
39        }
40        return a
41    }
42    return b.keyCode
43 }
44 ,isCtrl:function(a)
45 {
46     if(!a)
47     {
48         var a=window.event
49     }
50     return a.ctrlKey
51 }
52 ,isAlt:function(a)
53 {
54     if(!a)
55     {
56         var a=window.event
57     }
58     return a.altKey
59 }
60 ,isShift:function(a)
61 {
62     if(!a)
63     {
64         var a=window.event
65     }
66     return a.shiftKey
```

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```
67 }
68 ,insertAtCaret:function(a,f)
69 {
70     var d=this.getSelectionStart(a);
71     var b=this.getSelectionEnd(a);
72     var c=a.value.length;
73     a.value=a.value.substring(0,d)+f+a.value.substring(b,c);
74     this.setCaretPosition(a,d+f.length,0)
75 }
76 ,deleteAtCaret:function(c,b,a)
77 {
78     var g=this.getSelectionStart(c);
79     var d=this.getSelectionEnd(c);
80     var f=c.value.length;
81     if(b>g)
82     {
83         b=g
84     }
85     if(d+a>f)
86     {
87         a=f-d
88     }
89     var h=c.value.substring(g-b,d+a);
90     c.value=c.value.substring(0,g-b)+c.value.substring(d+a);
91     this.setCaretPosition(c,g-b,0);
92     return h
93 }
94 ,getSelectionStart:function(a)
95 {
96     a.focus();
97     if(a.selectionStart!==undefined)
98     {
99         return a.selectionStart
100     }
101     else
102     {
103         if(document.selection)
104         {
105             var b=document.selection.createRange();
106             if(b===null)
107             {
108                 return 0
109             }
110             var d=a.createTextRange();
111             var c=d.duplicate();
112             d.moveToBookmark(b.getBookmark());
113             c.setEndPoint("EndToStart",d);
114             return c.text.length
115         }
116     }
117 }
118 return 0
119 }
120 ,getSelectionEnd:function(a)
121 {
122     a.focus();
123     if(a.selectionEnd!==undefined)
124     {
125         return a.selectionEnd
126     }
127     else
128     {
129         if(document.selection)
130         {
131             var b=document.selection.createRange();
132             if(b===null)
```

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```
133     {
134         return 0
135     }
136     var d=a.createTextRange();
137     var c=d.duplicate();
138     d.moveToBookmark(b.getBookmark());
139     c.setEndPoint("EndToStart",d);
140     return c.text.length+b.text.length
141 }
142
143 }
144 return a.value.length
145 }
146 ,setCaretPosition:function(b,d,a)
147 {
148     var c=b.value.length;
149     if(d>c)
150     {
151         d=c
152     }
153     if(d+a>c)
154     {
155         a=c-a
156     }
157     b.focus();
158     if(b.setSelectionRange)
159     {
160         b.setSelectionRange(d,d+a)
161     }
162     else
163     {
164         if(b.createTextRange)
165         {
166             var f=b.createTextRange();
167             f.collapse(true);
168             f.moveEnd("character",d+a);
169             f.moveStart("character",d);
170             f.select()
171         }
172     }
173 }
174 b.focus()
175 }
176 ,selectAll:function(a)
177 {
178     this.setCaretPosition(a,0,a.value.length)
179 }
180
181 }
182 ;
183 branah.layout=function()
184 {
185     this.keys=[];
186     this.deadkeys=[];
187     this.dir="ltr";
188     this.name="US";
189     this.lang="en"
190 }
191 ;
192 branah.layout.prototype.loadDefault=function()
193 {
194     this.keys=[{i:"k0",c:"0",n:"`",s:"~"}
195 ]
196 ,{i:"k1",c:"0",n:"1",s:"!"}
197 ]
198 ,{i:"k2",c:"0",n:"2",s:"@"}
```

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```
199 }
200 ,{i:"k3",c:"0",n:"3",s:"#"}
201 }
202 ,{i:"k4",c:"0",n:"4",s:"$"}
203 }
204 ,{i:"k5",c:"0",n:"5",s:"%"}
205 }
206 ,{i:"k6",c:"0",n:"6",s:"^"}
207 }
208 ,{i:"k7",c:"0",n:"7",s:"&"}
209 }
210 ,{i:"k8",c:"0",n:"8",s:"*"}
211 }
212 ,{i:"k9",c:"0",n:"9",s:"("}
213 }
214 ,{i:"k10",c:"0",n:"0",s:")"}
215 }
216 ,{i:"k11",c:"0",n:"-",s:"_"}
217 }
218 ,{i:"k12",c:"0",n:"=",s:"+"}
219 }
220 ,{i:"k13",c:"1",n:"q",s:"Q"}
221 }
222 ,{i:"k14",c:"1",n:"w",s:"W"}
223 }
224 ,{i:"k15",c:"1",n:"e",s:"E"}
225 }
226 ,{i:"k16",c:"1",n:"r",s:"R"}
227 }
228 ,{i:"k17",c:"1",n:"t",s:"T"}
229 }
230 ,{i:"k18",c:"1",n:"y",s:"Y"}
231 }
232 ,{i:"k19",c:"1",n:"u",s:"U"}
233 }
234 ,{i:"k20",c:"1",n:"i",s:"I"}
235 }
236 ,{i:"k21",c:"1",n:"o",s:"O"}
237 }
238 ,{i:"k22",c:"1",n:"p",s:"P"}
239 }
240 ,{i:"k23",c:"0",n:"[",s:"{"}
241 }
242 ,{i:"k24",c:"0",n:"]",s:""}
243 }
244 "
245 }
246 ,{i:"k25",c:"0",n:"\\",s:"|"}
247 }
248 ,{i:"k26",c:"1",n:"a",s:"A"}
249 }
250 ,{i:"k27",c:"1",n:"s",s:"S"}
251 }
252 ,{i:"k28",c:"1",n:"d",s:"D"}
253 }
254 ,{i:"k29",c:"1",n:"f",s:"F"}
255 }
256 ,{i:"k30",c:"1",n:"g",s:"G"}
257 }
258 ,{i:"k31",c:"1",n:"h",s:"H"}
259 }
260 ,{i:"k32",c:"1",n:"j",s:"J"}
261 }
262 ,{i:"k33",c:"1",n:"k",s:"K"}
263 }
264 ,{i:"k34",c:"1",n:"l",s:"L"}
```

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```
265 }
266 ,{i:"k35",c:"0",n:"";
267 ",s:""}
268 }
269 ,{i:"k36",c:"0",n:"'",s:"'"}
270 }
271 ,{i:"k37",c:"1",n:"z",s:"Z"}
272 }
273 ,{i:"k38",c:"1",n:"x",s:"X"}
274 }
275 ,{i:"k39",c:"1",n:"c",s:"C"}
276 }
277 ,{i:"k40",c:"1",n:"v",s:"V"}
278 }
279 ,{i:"k41",c:"1",n:"b",s:"B"}
280 }
281 ,{i:"k42",c:"1",n:"n",s:"N"}
282 }
283 ,{i:"k43",c:"1",n:"m",s:"M"}
284 }
285 ,{i:"k44",c:"0",n:",",s:"<"}
286 }
287 ,{i:"k45",c:"0",n:". ",s:">"}
288 }
289 ,{i:"k46",c:"0",n:"/",s:"?"}
290 }
291 ,{i:"k47",c:"0",n:"\\",s:"|"}
292 }
293 ];
294 this.dir="ltr";
295 this.name="US";
296 this.lang="en"
297 }
298 ;
299 branah.layout.prototype.load=function(a)
300 {
301     this.keys=a.keys;
302     this.deadkeys=a.deadkeys;
303     this.dir=a.dir;
304     this.name=a.name;
305     this.lang=a.lang?a.lang:"en"
306 }
307 ;
308 branah.layout.parser={keyCodes:[192,49,50,51,52,53,54,55,56,57,48,189,187,81,87
,69,82,84,89,85,73,79,80,219,221,220,65,83,68,70,71,72,74,75,76,186,222,90,88,6
7,86,66,78,77,188,190,191,220],getKeyCode:function(c,e,b)
309 {
310     var d=c.length;
311     for(var a=0;
312     a<d;
313     a++)
314     {
315         if(c[a].i==b)
316         {
317             return e==1?(c[a].s?c[a].s:""):(c[a].n?c[a].n:"")
318         }
319     }
320 }
321 return 0
322 }
323 ,getKey:function(c,b)
324 {
325     var d=c.length;
326     for(var a=0;
327     a<d;
328     a++)
```

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```
329     {
330         if(c[a].i==b)
331         {
332             return c[a]
333         }
334     }
335     }
336     return null
337 }
338 ,isDeadkey:function(a,d)
339 {
340     if(!a)
341     {
342         return false
343     }
344     var c=a.length;
345     for(var b=0;
346     b<c;
347     b++)
348     {
349         if(a[b].k==d)
350         {
351             return true
352         }
353     }
354     }
355     return false
356 }
357 ,getMappedValue:function(a,e,d)
358 {
359     if(!a)
360     {
361         return""
362     }
363     var c=a.length;
364     for(var b=0;
365     b<c;
366     b++)
367     {
368         if(a[b].k==d&&a[b].b==e)
369         {
370             return a[b].c
371         }
372     }
373     }
374     return""
375 }
376 ,getKeyId:function(b)
377 {
378     for(var a=0;
379     a<48;
380     a++)
381     {
382         if(this.keyCodees[a]==b)
383         {
384             return a
385         }
386     }
387     }
388     return -1
389 }
390 ,getState:function(d,a,e,b,c)
391 {
392     var f="n";
393     if(!a&&!e&&d)
394     {
```

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```
395     f="n"
396 }
397 else
398 {
399     if(!a&&e&&d)
400     {
401         f="s"
402     }
403     else
404     {
405         if(!a&&e&&d)
406         {
407             f="s"
408         }
409         else
410         {
411             if(a&&!e&&d)
412             {
413                 f="n"
414             }
415             else
416             {
417                 if(a&&!e&&d)
418                 {
419                     f="t"
420                 }
421                 else
422                 {
423                     if(a&&e&&d)
424                     {
425                         f="s"
426                     }
427                     else
428                     {
429                         if(a&&e&&d)
430                         {
431                             f="f"
432                         }
433                     }
434                 }
435             }
436         }
437     }
438 }
439
440 }
441
442 }
443
444 }
445 if((f=="n" || f=="s") &&b)
446 {
447     if(c=="1")
448     {
449         if(f=="n")
450         {
451             f="s"
452         }
453         else
454         {
455             f="n"
456         }
457     }
458 }
459 if(c=="SGCap")
460 {
```

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```
461     if(f=="n")
462     {
463         f="y"
464     }
465     else
466     {
467         if(f=="s")
468         {
469             f="z"
470         }
471     }
472 }
473
474 }
475
476 }
477 return f
478 }
479
480 }
481 ;
482 branah.keyboard=function(a,d)
483 {
484     this.defaultLayout=new branah.layout();
485     this.defaultLayout.loadDefault();
486     this.virtualLayout=new branah.layout();
487     this.virtualLayout.loadDefault();
488     this.currentLayout=this.virtualLayout;
489     this.shift=false;
490     this.shiftOn=false;
491     this.caps=false;
492     this.capsOn=false;
493     this.alt=false;
494     this.ctrl=false;
495     this.altCtrlOn=false;
496     this.fontSize=18;
497     this.counter=0;
498     this.interval=0;
499     this.prev="";
500     this.cancelkeypress=false;
501     this.customOnBackspace=function(e)
502     {
503     }
504     ;
505     this.customOnEnter=function()
506     {
507     }
508     ;
509     ;
510     this.customOnSpace=function()
511     {
512         return false
513     }
514     ;
515     this.customOnKey=function(e)
516     {
517         return false
518     }
519     ;
520     this.customOnEsc=function()
521     {
522     }
523     ;
524     ;
525     this.customDrawKeyboard=function(e)
```

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```

527     {
528         return e
529     }
530     ;
531     this.textbox=$("#"+d);
532     this.nativeTextbox=document.getElementById(d);
533     var c=['<div id="branah-keyboard">'];
534     for(var b=0;
535         b<13;
536         b++)
537     {
538         c.push('<button id="branah-k',b,'" class="branah-key"></button>');
539     }
540     c.push('<button id="branah-backspace"><span>Backspace</span></button>');
541     c.push('<div class="branah-clear"></div>');
542     c.push('<button id="branah-tab"><span>Tab</span></button>');
543     for(var b=13;
544         b<25;
545         b++)
546     {
547         c.push('<button id="branah-k',b,'" class="branah-key"></button>')
548     }
549     c.push('<button id="branah-k25"></button>');
550     c.push('<div class="branah-clear"></div>');
551     c.push('<button id="branah-caps-lock"><span>Caps Lock</span></button>');
552     for(var b=26;
553         b<37;
554         b++)
555     {
556         c.push('<button id="branah-k',b,'" class="branah-key"></button>')
557     }
558     c.push('<button id="branah-enter" class="branah-enter"><span>Enter</span></bu
559     tton>');
560     c.push('<div class="branah-clear"></div>');
561     c.push('<button id="branah-left-shift"><span>Shift</span></button>');
562     c.push('<button id="branah-k47" class="branah-key"></button>');
563     for(var b=37;
564         b<47;
565         b++)
566     {
567         c.push('<button id="branah-k',b,'" class="branah-key"></button>')
568     }
569     c.push('<button id="branah-right-shift"><span>Shift</span></button>');
570     c.push('<div class="branah-clear"></div>');
571     c.push('<button id="branah-left-ctrl"><span>Ctrl</span></button>');
572     c.push('<button id="branah"><span>branah</span></button>');
573     c.push('<button id="branah-left-alt"><span>Alt</span></button>');
574     c.push('<button id="branah-space"><span>Space</span></button>');
575     c.push('<button id="branah-right-alt"><span>Alt</span></button>');
576     c.push('<button id="branah-escape" title="Turn on/off keyboard input conversi
577     on"><span>Esc</span></button>');
578     c.push('<button id="branah-right-ctrl"><span>Ctrl</span></button>');
579     c.push('<div class="branah-clear"></div>');
580     c.push("</div>");
581     document.getElementById(a).innerHTML=c.join("");
582     this.wireEvents();
583     this.drawKeyboard()
584 }
585 ;
586 branah.keyboard.prototype.loadDefaultLayout=function(a)
587 {
588     this.defaultLayout.load(a);
589     this.drawKeyboard()
590 }
591 ;
592 branah.keyboard.prototype.loadVirtualLayout=function(a)

```

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```
591 {
592     this.virtualLayout.load(a);
593     this.drawKeyboard();
594     this.textbox.attr("dir",this.attr("dir"))
595 }
596 ;
597 branah.keyboard.prototype.switchLayout=function()
598 {
599     this.currentLayout=(this.currentLayout===this.defaultLayout)?this.virtualLayo
    ut:this.defaultLayout;
600     this.reset();
601     this.drawKeyboard();
602     this.textbox.attr("dir",this.attr("dir"))
603 }
604 ;
605 branah.keyboard.prototype.onEsc=function()
606 {
607     this.switchLayout();
608     this.customOnEsc()
609 }
610 ;
611 branah.keyboard.prototype.onShift=function()
612 {
613     this.shift=!this.shift;
614     this.drawKeyboard()
615 }
616 ;
617 branah.keyboard.prototype.onAlt=function()
618 {
619     this.alt=!this.alt;
620     this.drawKeyboard()
621 }
622 ;
623 branah.keyboard.prototype.onCtrl=function()
624 {
625     this.ctrl=!this.ctrl;
626     this.drawKeyboard()
627 }
628 ;
629 branah.keyboard.prototype.onCapsLock=function()
630 {
631     this.caps=!this.caps;
632     this.drawKeyboard()
633 }
634 ;
635 branah.keyboard.prototype.onBackspace=function()
636 {
637     if(this.prev!="")
638     {
639         this.prev="";
640         this.shift=false;
641         this.drawKeyboard()
642     }
643     else
644     {
645         var a=branah.util.deleteAtCaret(this.nativeTextbox,1,0);
646         this.customOnBackspace(a)
647     }
648 }
649 ;
650 ;
651 branah.keyboard.prototype.onEnter=function()
652 {
653     branah.util.insertAtCaret(this.nativeTextbox,"\u000A");
654     this.customOnEnter()
655 }
```

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```
656 ;
657 branah.keyboard.prototype.onSpace=function()
658 {
659     if(!this.customOnSpace())
660     {
661         branah.util.insertAtCaret(this.nativeTextbox,"\u0020")
662     }
663 }
664 }
665 ;
666 branah.keyboard.prototype.attr=function(a)
667 {
668     if(a=="dir")
669     {
670         return this.currentLayout.dir
671     }
672     else
673     {
674         if(a=="lang")
675         {
676             return this.currentLayout.lang
677         }
678         else
679         {
680             if(a=="name")
681             {
682                 return this.currentLayout.name
683             }
684         }
685     }
686 }
687 }
688 return""
689 }
690 ;
691 branah.keyboard.prototype.reset=function()
692 {
693     this.shift=false;
694     this.caps=false;
695     this.alt=false;
696     this.ctrl=false;
697     this.counter=0;
698     this.interval=0;
699     this.prev=""
700 }
701 ;
702 branah.keyboard.prototype.stopRepeat=function()
703 {
704     if(this.interval!=0)
705     {
706         clearInterval(this.interval);
707         this.counter=0;
708         this.interval=0
709     }
710 }
711 }
712 ;
713 branah.keyboard.prototype.onKey=function(b)
714 {
715     var a=branah.layout.parser.getKey(this.currentLayout.keys,b);
716     if(a)
717     {
718         var d=branah.layout.parser.getState(this.ctrl,this.alt,this.shift,this.caps
719 ,a.c?a.c:"0");
720         var e=a[d]?a[d]:"";
721         if(this.prev!="")
```

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```
721     {
722         var c=branch.layout.parser.getMappedValue(this.currentLayout.deadkeys,e,t
his.prev);
723         if(c!="")
724         {
725             branch.util.insertAtCaret(this.nativeTextbox,c)
726         }
727         this.prev=""
728     }
729     else
730     {
731         if(branch.layout.parser.isDeadkey(this.currentLayout.deadkeys,e))
732         {
733             this.prev=e
734         }
735         else
736         {
737             if(e!="")
738             {
739                 if(!this.customOnKey(e))
740                 {
741                     branch.util.insertAtCaret(this.nativeTextbox,e)
742                 }
743             }
744         }
745     }
746 }
747
748 }
749
750 }
751
752 }
753 ;
754 branch.keyboard.prototype.drawKeyboard=function()
755 {
756     if(!this.currentLayout.keys)
757     {
758         return
759     }
760     var d,f,j,k;
761     var g=this.currentLayout.keys.length;
762     for(var e=0;
763     e<g;
764     e++)
765     {
766         f=this.currentLayout.keys[e];
767         if(!$("branch-"+f.i))
768         {
769             continue
770         }
771         var c=this.ctrl;
772         var a=this.alt;
773         var h=this.shift;
774         var b=this.caps;
775         if(this.shiftOn)
776         {
777             h=true
778         }
779         if(this.capsOn)
780         {
781             b=true
782         }
783         if(this.altCtrlOn)
784         {
785             c=true;
```

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```
786     a=true
787     }
788     j=branah.layout.parser.getState(c,a,h,b,f.c?f.c:"0");
789     k=f[j]?f[j]:"";
790     if(this.prev!="")
791     {
792         k=branah.layout.parser.getMappedValue(this.currentLayout.deadkeys,k,this.
prev)
793     }
794     if(!h)
795     {
796         k=this.customDrawKeyboard(k);
797         if(k=="")
798         {
799             k="&nbsp;";
800             "
801         }
802         d='<div class="branah-label-reference">'+branah.layout.parser.getKeyCode(
this.defaultLayout.keys,0,f.i)+'</div><div class="branah-label-natural" style="
font-size:'+this.fontSize+'px;
803             ">&nbsp;';
804             '+k+'</div>'
805         }
806         else
807         {
808             if(k=="")
809             {
810                 k="&nbsp;";
811                 "
812             }
813             d='<div class="branah-label-reference">'+branah.layout.parser.getKeyCode(
this.defaultLayout.keys,0,f.i)+'</div><div class="branah-label-shift" style="fo
nt-size:'+this.fontSize+'px;
814             ">&nbsp;';
815             '+k+'</div>'
816         }
817         document.getElementById("branah-"+f.i).innerHTML=d
818     }
819     $("#branah-left-ctrl").removeClass();
820     $("#branah-right-ctrl").removeClass();
821     if(c)
822     {
823         $("#branah-left-ctrl").addClass("branah-recessed"+(this.ctrl?"":"-hover"));
824         $("#branah-right-ctrl").addClass("branah-recessed"+(this.ctrl?"":"-hover"));
825     }
826     $("#branah-left-alt").removeClass();
827     $("#branah-right-alt").removeClass();
828     if(a)
829     {
830         $("#branah-left-alt").addClass("branah-recessed"+(this.alt?"":"-hover"));
831         $("#branah-right-alt").addClass("branah-recessed"+(this.alt?"":"-hover"));
832     }
833     $("#branah-left-shift").removeClass();
834     $("#branah-right-shift").removeClass();
835     if(h)
836     {
837         $("#branah-left-shift").addClass("branah-recessed"+(this.shift?"":"-hover")
);
838         $("#branah-right-shift").addClass("branah-recessed"+(this.shift?"":"-hover"
));
839     }
840     $("#branah-caps-lock").removeClass();
841     if(b)
842     {
843         $("#branah-caps-lock").addClass("branah-recessed"+(this.caps?"":"-hover"))
844     }
```

---

---

```
845
846 }
847 ;
848 branah.keyboard.prototype.wireEvents=function()
849 {
850     var a=this;
851     $("#branah-keyboard").delegate("button","mousedown",function(b)
852     {
853         var c=this.id;
854         a.interval=setInterval(function()
855         {
856             a.counter++;
857             if(a.counter>5)
858             {
859                 switch(c)
860                 {
861                     case"branah-backspace":a.onBackspace();
862                     break;
863                     default:if(c.search("branah-k([0-9])|([1-3][0-9])|(4[0-7])")!==-1)
864                     {
865                         a.onKey(c.substr(7));
866                         a.shift=false;
867                         a.alt=false;
868                         a.ctrl=false;
869                         a.drawKeyboard()
870                     }
871                     break
872                 }
873             }
874         }
875         ,50)
876     }
877 );
878 );
879 $("#branah-keyboard").delegate("button","mouseup",function(b)
880 {
881     a.stopRepeat()
882 }
883 );
884 $("#branah-keyboard").delegate("button","mouseout",function(b)
885 {
886     a.stopRepeat()
887 }
888 );
889 $("#branah-keyboard").delegate("button","click",function(b)
890 {
891     var c=this.id;
892     switch(c)
893     {
894         case"branah-left-shift":case"branah-right-shift":a.onShift();
895         break;
896         case"branah-left-alt":case"branah-right-alt":a.onCtrl();
897         a.onAlt();
898         break;
899         case"branah-left-ctrl":case"branah-right-ctrl":a.onAlt();
900         a.onCtrl();
901         break;
902         case"branah-escape":a.onEsc();
903         break;
904         case"branah-caps-lock":a.onCapsLock();
905         break;
906         case"branah-backspace":a.onBackspace();
907         break;
908         case"branah-enter":a.onEnter();
909         break;
910     }
```

---

---

```
911     case "branah-space": a.onSpace();
912     break;
913     default: if (c.search("branah-k([0-9])|([1-3][0-9])|(4[0-7])") != -1)
914     {
915         a.onKey(c.substr(7));
916         a.shift = false;
917         a.alt = false;
918         a.ctrl = false;
919         a.drawKeyboard();
920     }
921     break
922 }
923
924 }
925 );
926 $("#branah-left-shift, #branah-right-shift").bind("mouseover", function(b)
927 {
928     a.shiftOn = true;
929     a.drawKeyboard();
930 }
931 );
932 $("#branah-left-shift, #branah-right-shift").bind("mouseout", function(b)
933 {
934     a.shiftOn = false;
935     a.drawKeyboard();
936 }
937 );
938 $("#branah-left-ctrl, #branah-right-ctrl").bind("mouseover", function(b)
939 {
940     a.altCtrlOn = true;
941     a.drawKeyboard();
942 }
943 );
944 $("#branah-left-ctrl, #branah-right-ctrl").bind("mouseout", function(b)
945 {
946     a.altCtrlOn = false;
947     a.drawKeyboard();
948 }
949 );
950 $("#branah-left-alt, #branah-right-alt").bind("mouseover", function(b)
951 {
952     a.altCtrlOn = true;
953     a.drawKeyboard();
954 }
955 );
956 $("#branah-left-alt, #branah-right-alt").bind("mouseout", function(b)
957 {
958     a.altCtrlOn = false;
959     a.drawKeyboard();
960 }
961 );
962 $("#branah-caps-lock").bind("mouseover", function(b)
963 {
964     a.capsOn = true;
965     a.drawKeyboard();
966 }
967 );
968 $("#branah-caps-lock").bind("mouseout", function(b)
969 {
970     a.capsOn = false;
971     a.drawKeyboard();
972 }
973 );
974 a.textbox.bind("keydown", function(b)
975 {
976     var d = branah.util.keyCode(b);
```

---

---

```
977     if ((d==65 || d==67 || d==86 || d==88 || d==89 || d==90) && (a.ctrl&&!a.alt&&!a.shift))
978     {
979         return
980     }
981     if (a.currentLayout==a.defaultLayout&&d!=27)
982     {
983         return
984     }
985     switch(d)
986     {
987         case 17:a.ctrl=false;
988         a.onCtrl();
989         break;
990         case 18:a.alt=false;
991         a.onAlt();
992         break;
993         case 16:a.shift=false;
994         a.onShift();
995         break;
996         case 27:a.onEsc();
997         break;
998         case 8:a.onBackspace();
999         b.preventDefault();
1000        break;
1001        case 32:a.onSpace();
1002        b.preventDefault();
1003        break;
1004        case 10:a.onEnter();
1005        b.preventDefault();
1006        break;
1007        default:var c=branah.layout.parser.getKeyId(branah.util.keyCode(b));
1008        if(c!=-1)
1009        {
1010            a.onKey("k"+c);
1011            a.drawKeyboard();
1012            b.preventDefault();
1013            a.cancelkeypress=true
1014        }
1015        break
1016    }
1017
1018 }
1019 );
1020 if ($.browser.opera)
1021 {
1022     a.textbox.bind("keypress",function(b)
1023     {
1024         if(a.cancelkeypress)
1025         {
1026             b.preventDefault();
1027             a.cancelkeypress=false
1028         }
1029     }
1030 )
1031 )
1032 }
1033 a.textbox.bind("keyup",function(b)
1034 {
1035     switch(branah.util.keyCode(b))
1036     {
1037         case 17:a.ctrl=true;
1038         a.onCtrl();
1039         break;
1040         case 18:a.alt=true;
1041         a.onAlt();
1042         break;
```

---



---

```
1043     case 16:a.shift=true;
1044     a.onShift();
1045     break;
1046     default:
1047     }
1048
1049 }
1050 )
1051 }
1052 ;
1053 keyboard.customOnKey=function(b)
1054 {
1055     branah.util.insertAtCaret(this.nativeTextbox,b);
1056     var a=branah.util.deleteAtCaret(this.nativeTextbox,2,0);
1057     branah.util.insertAtCaret(this.nativeTextbox,korean.composeHangul(a));
1058     return true
1059 }
1060 ;
1061 keyboard.customOnBackspace=function(a)
1062 {
1063     a=korean.decomposeHangul(a);
1064     if(a.length>1)
1065     {
1066         branah.util.insertAtCaret(this.nativeTextbox,korean.composeHangul(a.slice(0
1067 ,-1)))
1068     }
1069 }
1070 ;
1071 branah.util.indexOf=function(a,d)
1072 {
1073     var c=a.length;
1074     for(var b=0;
1075     b<c;
1076     b++)
1077     {
1078         if(a[b]==d)
1079         {
1080             return b
1081         }
1082     }
1083     return -1
1084 }
1085 ;
1086 ;
1087 var korean={initial:[12593,12594,12596,12599,12600,12601,12609,12610,12611,1261
3,12614,12615,12616,12617,12618,12619,12620,12621,12622],finale:[0,12593,12594,
12595,12596,12597,12598,12599,12601,12602,12603,12604,12605,12606,12607,12608,1
2609,12610,12612,12613,12614,12615,12616,12618,12619,12620,12621,12622],dMedial
:[0,0,0,0,0,0,0,0,0,800,801,820,0,0,1304,1305,1320,0,0,1820],dFinale:[0,0,0,119
,0,422,427,0,0,801,816,817,819,825,826,827,0,0,1719,0,1919],SBase:44032,LBase:4
352,VBase:12623,TBase:4519,LCount:19,VCount:21,TCount:28,NCount:588,SCount:1117
2,composeHangul:function(k)
1088 {
1089     var f=k.length;
1090     if(f==0)
1091     {
1092         return""
1093     }
1094     var e=k.charCodeAt(0);
1095     var h=String.fromCharCode(e);
1096     var a,g,m,c,l,b,j;
1097     for(var d=1;
1098     d<f;
1099     ++d)
1100     {
```

---

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```

1101     a=k.charCodeAt(d);
1102     g=branah.util.indexOf(this.initial,e);
1103     if(g!=-1)
1104     {
1105         m=a-this.VBase;
1106         if(0<=m&&m<this.VCount)
1107         {
1108             e=this.SBase+(g*this.VCount+m)*this.TCount;
1109             h=h.slice(0,h.length-1)+String.fromCharCode(e);
1110             continue
1111         }
1112     }
1113 }
1114 j=e-this.SBase;
1115 if(0<=j&&j<11145&&(j%this.TCount)==0)
1116 {
1117     l=branah.util.indexOf(this.finale,a);
1118     if(l!=-1)
1119     {
1120         e+=l;
1121         h=h.slice(0,h.length-1)+String.fromCharCode(e);
1122         continue
1123     }
1124     m=(j%this.NCount)/this.TCount;
1125     c=branah.util.indexOf(this.dMedial,(m*100)+(a-this.VBase));
1126     if(c>0)
1127     {
1128         e+=(c-m)*this.TCount;
1129         h=h.slice(0,h.length-1)+String.fromCharCode(e);
1130         continue
1131     }
1132 }
1133 }
1134 if(0<=j&&j<11172&&(j%this.TCount)!=0)
1135 {
1136     l=j%this.TCount;
1137     m=a-this.VBase;
1138     if(0<=m&&m<this.VCount)
1139     {
1140         g=branah.util.indexOf(this.initial,this.finale[l]);
1141         if(0<=g&&g<this.LCount)
1142         {
1143             h=h.slice(0,h.length-1)+String.fromCharCode(e-l);
1144             e=this.SBase+(g*this.VCount+m)*this.TCount;
1145             h=h+String.fromCharCode(e);
1146             continue
1147         }
1148         if(l<this.dFinale.length&&this.dFinale[l]!=0)
1149         {
1150             h=h.slice(0,h.length-1)+String.fromCharCode(e-l+Math.floor(this.dFinale[l]/100));
1151             e=this.SBase+(branah.util.indexOf(this.initial,this.finale[(this.dFinale[l]*100)])*this.VCount+m)*this.TCount;
1152             h=h+String.fromCharCode(e);
1153             continue
1154         }
1155     }
1156 }
1157 b=branah.util.indexOf(this.dFinale,(l*100)+branah.util.indexOf(this.finale, a));
1158 if(b>0)
1159 {
1160     e=e+b-l;
1161     h=h.slice(0,h.length-1)+String.fromCharCode(e);
1162     continue
1163 }

```

---

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```
1164
1165     }
1166     e=a;
1167     h=h+String.fromCharCode(a)
1168     }
1169     return h
1170 }
1171 ,decomposeHangul:function(g)
1172 {
1173     var d=g.length;
1174     var e="";
1175     var a,f,c,j,h;
1176     for(var b=0;
1177     b<d;
1178     b++)
1179     {
1180         var a=g.charCodeAt(b);
1181         f=a-this.SBase;
1182         if(f<0||f>=this.SCount)
1183         {
1184             e=e+String.fromCharCode(a);
1185             continue
1186         }
1187         c=this.initial[Math.floor(f/this.NCount)];
1188         j=this.VBase+(f*this.NCount)/this.TCount;
1189         h=this.finale[f*this.TCount];
1190         e=e+String.fromCharCode(c,j);
1191         if(h!=0)
1192         {
1193             e=e+String.fromCharCode(h)
1194         }
1195     }
1196     }
1197     return e
1198 }
1199
1200 }
1201 ;
1202
1203
```

---