

```

1 <!-- Created by John Park | Dr. Gabor's Web App Development class | 09/11/2014-->
2 <html>
3   <head>
4     <title>50 States of the U.S.</title>
5     <link rel="icon" type="image/png" href="http://files.softicons.com/download/web-icons/vista-flags-icons-by-icons-
land/png/256x256/UnitedStates US USA 840 Flag2.png"/>
6
7     <!-- JavaScript starts here -->
8     <script type="text/javascript">
9
10      var game_running = false;
11      var entered_count = 0;
12
13      var states = [
14        {"abbrev":"AL", "name":"Alabama", "top":"60%", "left":"67%", "font-size":"0.9vw"},
15        {"abbrev":"AK", "name":"Alaska", "top":"75%", "left":"10%", "font-size":"0.9vw"},
16        {"abbrev":"AZ", "name":"Arizona", "top":"54%", "left":"20%", "font-size":"0.9vw"},
17        {"abbrev":"AR", "name":"Arkansas", "top":"55%", "left":"55%", "font-size":"0.9vw"},
18        {"abbrev":"CA", "name":"California", "top":"42%", "left":"6.5%", "font-size":"0.9vw"},
19        {"abbrev":"CO", "name":"Colorado", "top":"41%", "left":"32%", "font-size":"0.9vw"},
20        {"abbrev":"CT", "name":"Connecticut", "top":"26%", "left":"89%", "font-size":"0.6vw"},
21        {"abbrev":"DE", "name":"Delaware", "top":"37%", "left":"86%", "font-size":"0.5vw"},
22        {"abbrev":"FL", "name":"Florida", "top":"76%", "left":"79%", "font-size":"0.9vw"},
23        {"abbrev":"GA", "name":"Georgia", "top":"60%", "left":"73%", "font-size":"0.9vw"},
24        {"abbrev":"HI", "name":"Hawaii", "top":"85%", "left":"27%", "font-size":"0.9vw"},
25        {"abbrev":"ID", "name":"Idaho", "top":"20%", "left":"19%", "font-size":"0.9vw"},
26        {"abbrev":"IL", "name":"Illinois", "top":"37%", "left":"61%", "font-size":"0.9vw"},
27        {"abbrev":"IN", "name":"Indiana", "top":"37%", "left":"66%", "font-size":"0.9vw"},
28        {"abbrev":"IA", "name":"Iowa", "top":"32%", "left":"54%", "font-size":"0.9vw"},
29        {"abbrev":"KS", "name":"Kansas", "top":"43%", "left":"45%", "font-size":"0.9vw"},
30        {"abbrev":"KY", "name":"Kentucky", "top":"45%", "left":"69%", "font-size":"0.9vw"},
31        {"abbrev":"LA", "name":"Louisiana", "top":"68%", "left":"56%", "font-size":"0.9vw"},
32        {"abbrev":"ME", "name":"Maine", "top":"11%", "left":"91.5%", "font-size":"0.9vw"},
33        {"abbrev":"MD", "name":"Maryland", "top":"36%", "left":"83%", "font-size":"0.8vw"},
34        {"abbrev":"MA", "name":"Massachusetts", "top":"23%", "left":"90%", "font-size":"0.7vw"},
35        {"abbrev":"MI", "name":"Michigan", "top":"25%", "left":"67%", "font-size":"0.9vw"},
36        {"abbrev":"MN", "name":"Minnesota", "top":"16%", "left":"51%", "font-size":"0.9vw"},
37        {"abbrev":"MS", "name":"Mississippi", "top":"63%", "left":"61%", "font-size":"0.9vw"},
38        {"abbrev":"MO", "name":"Missouri", "top":"44%", "left":"55%", "font-size":"0.9vw"},
39        {"abbrev":"MT", "name":"Montana", "top":"12%", "left":"28%", "font-size":"0.9vw"},
40        {"abbrev":"NE", "name":"Nebraska", "top":"33%", "left":"43%", "font-size":"0.9vw"},
41        {"abbrev":"NV", "name":"Nevada", "top":"35%", "left":"13%", "font-size":"0.9vw"},
42        {"abbrev":"NH", "name":"New Hampshire", "top":"20%", "left":"89.5%", "font-size":"0.7vw"},
43        {"abbrev":"NJ", "name":"New Jersey", "top":"32%", "left":"87%", "font-size":"0.7vw"},
44        {"abbrev":"NM", "name":"New Mexico", "top":"55%", "left":"30%", "font-size":"0.9vw"},
45        {"abbrev":"NY", "name":"New York", "top":"22%", "left":"84%", "font-size":"0.9vw"},

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46     {"abbrev": "NC", "name": "North Carolina", "top": "49%", "left": "80%", "font-size": "0.9vw"},
47     {"abbrev": "ND", "name": "North Dakota", "top": "13%", "left": "42%", "font-size": "0.9vw"},
48     {"abbrev": "OH", "name": "Ohio", "top": "35%", "left": "72%", "font-size": "0.9vw"},
49     {"abbrev": "OK", "name": "Oklahoma", "top": "54%", "left": "46%", "font-size": "0.9vw"},
50     {"abbrev": "OR", "name": "Oregon", "top": "17%", "left": "9%", "font-size": "0.9vw"},
51     {"abbrev": "PA", "name": "Pennsylvania", "top": "31%", "left": "80%", "font-size": "0.9vw"},
52     {"abbrev": "RI", "name": "Rhode Island", "top": "26%", "left": "91%", "font-size": "0.7vw"},
53     {"abbrev": "SC", "name": "South Carolina", "top": "56%", "left": "78%", "font-size": "0.9vw"},
54     {"abbrev": "SD", "name": "South Dakota", "top": "23%", "left": "42%", "font-size": "0.9vw"},
55     {"abbrev": "TN", "name": "Tennessee", "top": "51%", "left": "67%", "font-size": "0.9vw"},
56     {"abbrev": "TX", "name": "Texas", "top": "67%", "left": "43%", "font-size": "0.9vw"},
57     {"abbrev": "UT", "name": "Utah", "top": "38%", "left": "21%", "font-size": "0.9vw"},
58     {"abbrev": "VT", "name": "Vermont", "top": "17%", "left": "87%", "font-size": "0.7vw"},
59     {"abbrev": "VA", "name": "Virginia", "top": "42%", "left": "81%", "font-size": "0.9vw"},
60     {"abbrev": "WA", "name": "Washington", "top": "6%", "left": "12%", "font-size": "0.9vw"},
61     {"abbrev": "WV", "name": "West Virginia", "top": "40%", "left": "75.5%", "font-size": "0.9vw"},
62     {"abbrev": "WI", "name": "Wisconsin", "top": "22%", "left": "58%", "font-size": "0.9vw"},
63     {"abbrev": "WY", "name": "Wyoming", "top": "27%", "left": "30%", "font-size": "0.9vw"},
64 ];
65
66     var alreadyentered = [];
67
68
69     /* function isNumber(event) was taken from http://stackoverflow.com/questions/7295843/allow-only-numbers-to-
be-typed-in-a-textbox */
70     function isNumber(event) {
71         event = (event) ? event : window.event;
72         var charCode = (event.which) ? event.which : event.keyCode;
73         if (charCode > 31 && (charCode < 48 || charCode > 57)) {
74             return false;
75         }
76         return true;
77     }
78
79     function checkInput(evt) {
80         //if (typeof evt == 'undefined' && window.event) { e = window.event; }
81         evt = evt || window.event;
82         var charCode = evt.which || evt.keyCode;
83         var charStr = String.fromCharCode(charCode).toLowerCase();
84         // last 3 lines taken from http://stackoverflow.com/questions/1435885/convert-keystrokes-gathered-by-
onkeydown-into-characters-in-javascript
85
86
87         var isState = false;
88         var state_index;

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89     var currentinput = document.getElementById('state_input').value;// + charStr;
90     currentinput = currentinput.trim();
91     for(i = 0; (i < states.length && !isState); i++) {
92
93         state_index = i;
94
95         var sabbrev = states[i].abbrev.toUpperCase();
96         var sname = states[i].name.toLowerCase();
97
98         isState = ( (currentinput.toLowerCase() == states[i].name.toLowerCase()) || (currentinput ==
states[i].abbrev.toUpperCase()));
99
100         /*
101         if(isState) {
102             state_index = i;
103             //document.getElementById('state_input').value = "";
104             break;
105         }
106         */
107     }
108     if(isState && alreadyentered.indexOf(states[state_index]) < 0) {
109         //action to take if state_input value matches a state name
110         alreadyentered.push(states[state_index]);
111         var stateAbbrevDiv = document.createElement('div');
112         stateAbbrevDiv.className = "state_abbrev";
113         stateAbbrevDiv.innerHTML = states[state_index].abbrev;
114         stateAbbrevDiv.style.top = states[state_index].top;
115         stateAbbrevDiv.style.left = states[state_index].left;
116         stateAbbrevDiv.style.fontSize = states[state_index]["font-size"];
117
118         document.getElementById('map').appendChild(stateAbbrevDiv);
119         entered_count++;
120         //////////////////////////////////////
121         window.setTimeout(function() {document.getElementById('state_input').value = "";} , 50); //slight
delay on last character
122     }
123 }
124
125
126
127 var totaltime;
128 var timerIntervalId;
129
130 function startGame() {
131     document.getElementById('infobox').style.visibility = 'visible';

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132     document.getElementById('optionbox').style.visibility = "hidden";
133
134     reset();
135
136     document.getElementById('state_input').focus();
137
138     game_running = true;
139
140     totaltime = 300000;    //totaltime OVERRIDE @ 5 minutes
141
142     var seconds = totaltime / 1000;
143     var seconds_display = seconds % 60;
144
145     var minutes_display = parseInt(seconds / 60);
146
147     document.getElementById('countdown').innerHTML = "Time left: " + (minutes_display < 10 ? "0" +
minutes_display : minutes_display) + ":" + (seconds_display < 10 ? "0" + seconds_display : seconds_display);
148
149     timerIntervalId = window.setInterval(function()    {
150         totaltime-=1000;
151
152         var game_end_state = ((totaltime <= 0) || (entered_count == 50));
153
154         if(game_end_state) {
155             stopGame();
156         } else {
157             var seconds = totaltime / 1000;
158             var seconds_display = seconds % 60;
159
160             var minutes_display = parseInt(seconds / 60);
161
162             document.getElementById('countdown').innerHTML = "Time left: " + (minutes_display < 10 ? "0" +
minutes_display : minutes_display) + ":" + (seconds_display < 10 ? "0" + seconds_display : seconds_display);
163         }
164     }, 1000)
165 }
166
167 function stopGame() {
168     window.clearInterval(timerIntervalId);
169
170     document.getElementById('optionbox').style.visibility = "visible";
171
172     if(totaltime <= 0) {
173         document.getElementById('countdown').innerHTML = "Time left: 00:00";
174     }
175     //alert(entered_count);

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176         if(entered_count == 50) {
177             document.getElementById('infobox').innerHTML = "<i>Congratulations! You named all 50 states with " +
document.getElementById('countdown').innerHTML.split(" ")[2] + " left over!</i>";
178         } else {
179             document.getElementById('infobox').innerHTML = "<i>Try again! You named " + entered_count + " out of
50 states.</i>";
180         }
181
182         game_running = false;
183     }
184
185     function reset() {
186         document.getElementById('infobox').innerHTML = '<b>[</b><span id="countdown" style=""></span>
<b>]&nbsp;&nbsp;&nbsp;</b>Enter states:&nbsp;<input type="text" id="state_input" name="state_input" onfocus="this.select();"
oninput="checkInput(event);" accesskey="i" style="padding-left: 4px; width: 20%; font-size: 80%; opacity: 0.8;"/><b>&nbsp;&nbsp;&
</b>';
187
188         totaltime = 300000; //5 minutes total time
189         document.getElementById('map').innerHTML = "";
190         entered_count = 0;
191         document.getElementById('start_button').innerHTML = "<b><u>S</u>tart again!</b>";
192
193         alreadyentered = [];
194         //document.getElementById('infobox').innerHTML = '<span style="font-style: italic; font-weight: bold;">Can
you name all 50 states within 5 minutes?</span>';
195
196         game_running = false;
197     }
198 </script>
199
200
201 <!-- CSS starts here -->
202 <style type="text/css">
203     body {
204         margin-top: 20px;
205         margin-left: auto;
206         margin-right: auto;
207         font-family: "Verdana";
208
209         width: 45%;
210
211         -webkit-animation: fadein 5s; /* Safari, Chrome and Opera > 12.1 */
212         -moz-animation: fadein 5s; /* Firefox < 16 */
213         -ms-animation: fadein 5s; /* Internet Explorer */
214         -o-animation: fadein 5s; /* Opera < 12.1 */
215         animation: fadein 5s;

```

```

216         <!-- last 5 lines were taken from http://stackoverflow.com/questions/11679567/using-css-for-fade-in-
effect-on-page-load -->
217     }
218
219     .state_abbrev {
220         /*font-family: "Impact";*/
221         font-weight: bold;
222
223         color: #0066FF;
224
225         text-align: center;
226
227         position: absolute;
228
229         /* USE JAVASCRIPT TO CHANGE TOP, LEFT, FONT-SIZE VALUES FOR EACH STATE ON THE MAP */
230         /*
231         top: 32%;
232         left: 87%;
233         font-size: 0.7vw;
234         */
235         z-index: 20;
236
237         -webkit-animation: fadein 1.5s; /* Safari, Chrome and Opera > 12.1 */
238         -moz-animation: fadein 1.5s; /* Firefox < 16 */
239         -ms-animation: fadein 1.5s; /* Internet Explorer */
240         -o-animation: fadein 1.5s; /* Opera < 12.1 */
241         animation: fadein 1.5s;
242         /*////////////////////////////////////////////////////////////////////////////////////////////////////////*/
243     }
244
245     #heading {
246         font-family: "Impact";
247         font-size: 3vw;
248
249         margin-top: 5%;
250         margin-left: 10%;
251         margin-right: auto;
252         margin-bottom: 2.5%;
253     }
254
255     #map {
256         background-image: url(img/map_us_transparent.png); /* image source:
http://upload.wikimedia.org/wikipedia/commons/thumb/3/32/Blank_US_Map.svg/1000px-Blank_US_Map.svg.png*/
257         background-size: contain;
258         background-repeat: no-repeat;
259

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```
260     width: 100%;
261     height: 0;
262     padding-top: 66.64%; /* (img-height / img-width * width) = (853 / 1280 * 100) */
263     /* last 6 lines trick for background image resizing taken from
264     http://stackoverflow.com/questions/600743/how-to-get-div-height-to-auto-adjust-to-background-size | answer by Hasanavi*/
265
266     height: auto;
267     max-width: 100%;
268
269     position: relative;
270
271     border-radius: 25px;
272
273     opacity: 0.75;
274
275     z-index: 10;
276 }
277
278 #infobox {
279     margin-top: 20px;
280
281     background-color: #70F269;
282     color: #202020;
283     font-size: 1.75vw;
284
285     padding-top: 3%;
286     padding-bottom: 3%;
287
288     text-align: center;
289
290     border-radius: 15px;
291
292     visibility: hidden;
293     opacity: 0.8;
294 }
295
296 #optionbox {
297     margin-top: 20px;
298
299     background-color: #FF464F;
300     color: #F0F0F0;
301     font-size: 1vw;
302
303     padding-top: 3%;
304     padding-bottom: 3%;
```

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```
        text-align: center;

        border-radius: 15px;

        visibility: visible;

        opacity: 0.8;
    }
```

```
/* fadein properties */
@keyframes fadein {
    from { opacity: 0; }
    to   { opacity: 1; }
}
```

```
/* Firefox < 16 */
@-moz-keyframes fadein {
    from { opacity: 0; }
    to   { opacity: 1; }
}
```

```
/* Safari, Chrome and Opera > 12.1 */
@-webkit-keyframes fadein {
    from { opacity: 0; }
    to   { opacity: 1; }
}
```

```
/* Internet Explorer */
@-ms-keyframes fadein {
    from { opacity: 0; }
    to   { opacity: 1; }
}
```

```
/* Opera < 12.1 */
@-o-keyframes fadein {
    from { opacity: 0; }
    to   { opacity: 1; }
}
```

```
<!-- last 28 lines were taken from http://stackoverflow.com/questions/11679567/using-css-for-fade-in-effect-on-page-load -->
```

```
</style>
</head>
```



```

347     <body bgcolor="C6FAF4">
348         <div id="heading">The United States of America</div>
349         <div id="map">
350             <div id="state_abbrev"></div>
351         </div>
352         <div id="infobox" style="padding-left: 2%; visibility: visible">
353             <span style="font-style: italic; font-weight: bold; font-size: 1.35vw;">Can you name all 50 states within 5
minutes?</span>
354         </div>
355         <div id="optionbox">
356             <button type="button" id="start_button" onclick="startGame();" onkeypress="keypress(event);" style="width:
12%; height: auto; font-size: 76%;" accesskey="s"><b><u>S</u>tart game!</b></button>
357             <br>
358             <br>
359             <span style="position: relative; padding-top: 5px; font-size: 0.65vw; font-style: italic">Created by John Park
- 2014</span>
360         </div>
361     </body>
362 </html>

```