

## Recap of the course

For this challenge, we went forward with Javascript. We learned about CSS animations, even about the “::before” and “::after” child and parent parts. We learned about the basics of CSS animations. We learned about the data objects, and about objects in overall, the focus was on the date objects this time. We learned how to pull the real-time time via the date object. Furthermore, we talked and learned about the DOM and how it works, and what it is.

## The Challenge

The challenge was to make a digital clock that's working with real-time data to use the date object. Also, we had to make something animated with CSS, for this part I went with an easy animation for the background. Furthermore, in some way we had to display (manipulate the time) other timezones. For this one, I created a variable with the timezone difference and just added it to the current hour. For the interactive part, I added two buttons on the right side which the user can either add or remove one hour for all the displayed time. The last thing is an earth and mars icon on the top right of the screen which shows the live time on either earth or on the mars. (12h difference). Of course, the difference is just made up.

	<pre>39 40     dpb = h + 5 + bminus + bplus + clickme; 41     document.getElementById('bangkok').innerHTML = 42     dpb + ":" + m + ":" + s; 43     if(dpb &gt;= 24){ 44         bminus = bminus - 24; 45     } 46     else if(dpb &lt;= 0){ 47         bplus = bplus + 24; 48     } 49 50     dbd = h + 2 + dminus + dplus + clickme; 51     document.getElementById('dubai').innerHTML = 52     dbd + ":" + m + ":" + s; 53     if(dpd &gt;= 24){ 54         dminus = dminus - 24; 55     } 56     else if(dpb &lt;= 0){ 57         dplus = dplus + 24; 58     } 59 60     dpt = h + tminus + tplus + clickme - 6; 61     document.getElementById('toronto').innerHTML = 62     dpt + ":" + m + ":" + s; 63     if(dpt &gt;= 24){ 64         tminus = tminus - 24; 65     } 66     else if(dpt &lt;= 0){</pre>
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LIVETIME HERE

6:37:44

+1H

-1H

HOURS DIFFERENCE: 0

```
function startTime(){
    var today = new Date();
    var h = today.getHours();
    var m = today.getMinutes();
    var s = today.getSeconds();

    m = checkTime(m);
    s = checkTime(s);

    dplive = h + bminus + bplus + clickme + eartmars;
    document.getElementById('livetime').innerHTML =
    dplive + ":" + m + ":" + s;
    if(dplive >= 24){
        liveminus = liveminus - 24;
    }
    else if(dpb <= 0){
        liveplus = liveplus + 24;
    }
}
```

LIVETIME HERE

9:37:57

+1H

-1H

HOURS DIFFERENCE: 3

```
87
88     var clickme = 0;
89     function plush(){
90         clickme += 1;
91         document.getElementById("clickme").innerHTML = clickme;
92     }
93     function minush(){
94         clickme -= 1;
95         document.getElementById("clickme").innerHTML = clickme;
96     }
97
98     var eartmars = 0;
```



LIVETIME HERE

21:38:21

```
98 var eartmars = 0;
99 function earth(){
100     console.log("runs");
101     var element = document.getElementById("earth1");
102     element.classList.toggle("border-success");
103     var element = document.getElementById("mars1");
104     element.classList.toggle("border-success");
105     if (eartmars==12) {
106         eartmars = 0;
107     }
108     if (eartmars==0) {
109         eartmars = 12;
110     }
111 }
112
113 function mars(){
114     var element = document.getElementById("mars1");
115     element.classList.toggle("border-success");
116     var element = document.getElementById("earth1");
117     element.classList.toggle("border-success");
118     if (eartmars==0) {
119         eartmars = 12;
120     }
121     if (eartmars==12) {
122         eartmars = 0;
123     }
124 }
125
```