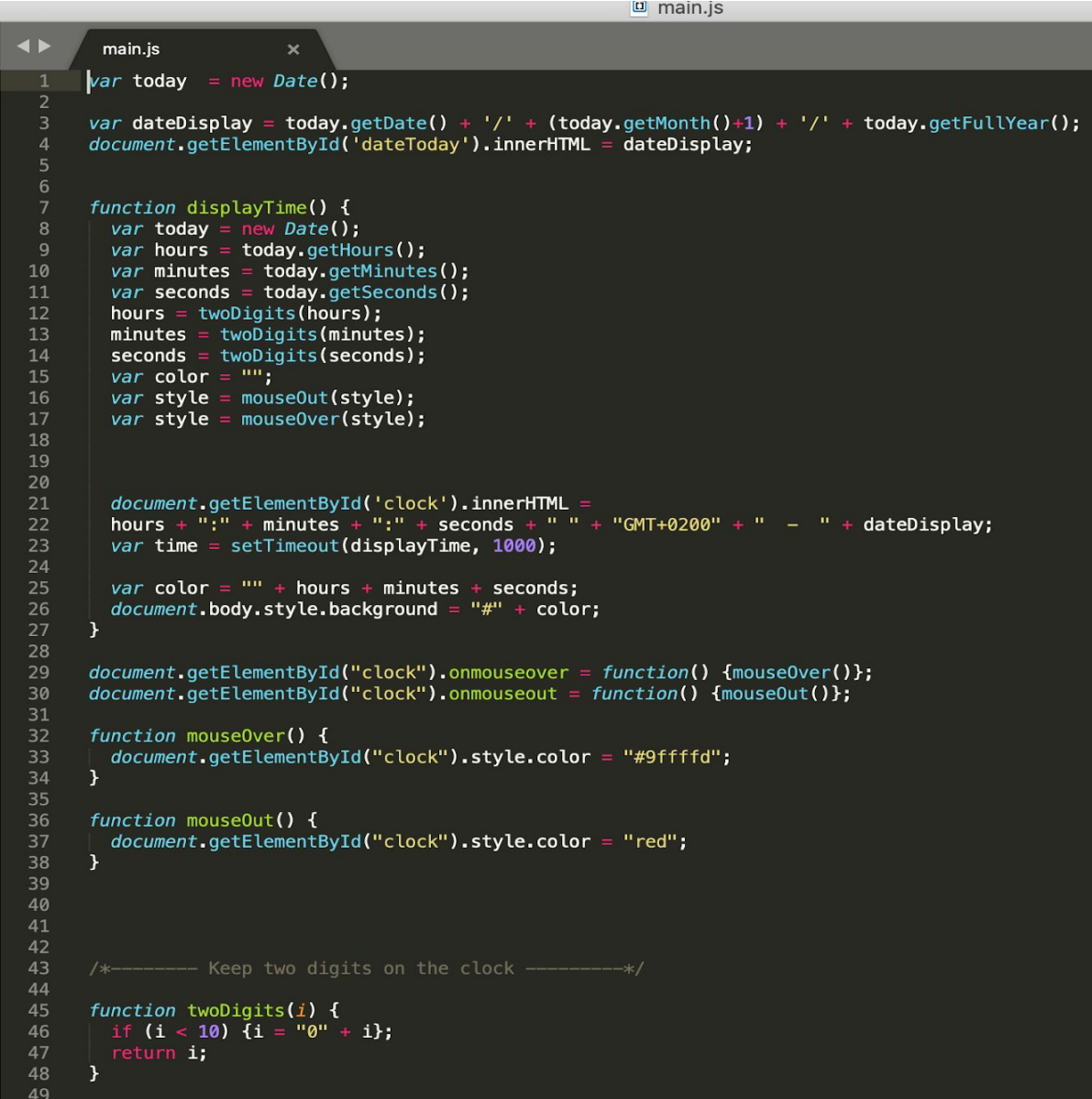


For this challenge we have learned about CSS transitions and transforms, allowing us to modify property values smoothly, over a given duration; and adding some 3D perspective to the elements, like images. Besides that, we covered CSS animations and keyframes, which rule specifies the animation code. With CSS animations we saw how to regulate the time of the animations and how they should behave regarding timing and their direction-orientation. In the building block part, still in CSS animation, we could see how to keep an animation running infinitely and how to interact with the animation when playing or pausing it. Moreover, we learned how to create date objects and get the current date and time, allowing us to display them on the page.

The assignment requested us to design and make a clock, which should be animated and interactive displayed inside of the spaceship. The Date object was used to obtain the current time and date and display it on the page using DOM manipulation. With CSS transform I could add some animation to the clock making it move within the x-axis in order to make it looks like an electronic banner. In order to make the clock interactive I added an event with the mouse so it could change the color once the mouse would be over the clock based on its id with *onmouseover* and *onmouseout*. The banner changes the color every second, modifying the color hex number gradually selecting the style background by putting variable "#" in order to identify the element as hex color.



```
main.js
1 var today = new Date();
2
3 var dateDisplay = today.getDate() + '/' + (today.getMonth()+1) + '/' + today.getFullYear();
4 document.getElementById('dateToday').innerHTML = dateDisplay;
5
6
7 function displayTime() {
8     var today = new Date();
9     var hours = today.getHours();
10    var minutes = today.getMinutes();
11    var seconds = today.getSeconds();
12    hours = twoDigits(hours);
13    minutes = twoDigits(minutes);
14    seconds = twoDigits(seconds);
15    var color = "";
16    var style = mouseOut(style);
17    var style = mouseOver(style);
18
19
20
21    document.getElementById('clock').innerHTML =
22    hours + ":" + minutes + ":" + seconds + " " + "GMT+0200" + " - " + dateDisplay;
23    var time = setTimeout(displayTime, 1000);
24
25    var color = "" + hours + minutes + seconds;
26    document.body.style.background = "#" + color;
27 }
28
29 document.getElementById("clock").onmouseover = function() {mouseOver()};
30 document.getElementById("clock").onmouseout = function() {mouseOut()};
31
32 function mouseOver() {
33     document.getElementById("clock").style.color = "#9ffffd";
34 }
35
36 function mouseOut() {
37     document.getElementById("clock").style.color = "red";
38 }
39
40
41
42
43 /*----- Keep two digits on the clock -----*/
44
45 function twoDigits(i) {
46     if (i < 10) {i = "0" + i};
47     return i;
48 }
49
```

06:41:39 GMT+0200 - 1/6/2020



```
mystyle
mystyle.css
1 p {
2   font-size: 40px;
3   top: 10px;
4   font-family: Arial;
5
6 }
7
8 #dateToday {
9   margin-top: 10px;
10  padding-top: 10px;
11  text-shadow: 2px 3px 10px rgb(186, 249, 255);
12  font-size: 4em;
13
14 }
15
16 #room {
17   position: fixed;
18   top: 0;
19   left: 0;
20   width: 100%;
21   height: 100%;
22 }
23
24
25 #banner {
26   width: 1400px;
27   height: 10px;
28   margin: 0;
29   transform: rotate(1.5deg);
30 }
31
32 #clock {
33   margin-top: 55px;
34   text-shadow: 2px 3px 8px #fff;
35   font-size: 4em;
36   animation-name: clockSlide;
37   animation-duration: 8s;
38   animation-timing-function: linear;
39   animation-iteration-count: infinite;
40 }
41
42 @keyframes clockSlide {
43   from {transform: translateX(0);}
44   to {transform: translateX(100%);}
45 }
46
47 .sideship {
48   position: inherit;
49   width: 100%;
50   height: 100%;
51 }
52
53
```

```
index.html
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <meta charset="UTF-8" />
5     <title>Variables</title>
6     <link rel="stylesheet" type="text/css" href="styles/mystyle.css">
7     <script src="scripts/main.js" defer></script>
8   </head>
9   <body onload="displayTime()">
10    <div id="banner"></div>
11    
12
13    <p id="clock" onmouseover="mouseOver()" onmouseout="mouseOut()"></p>
14  </body>
15 </html>
```