
Web Dev Midterm

Interactive Art-ish

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Goal

- Pieces of art that can have cool effects when interacted with.
 - Using mainly HTML and CSS
-

Home Page

**INTERACTIVE
ART**

Ocean

City

Space



Home Page Code-HTML

```
1  <!DOCTYPE html>
2  ▼ <html>
3  ▼   <head>
4       <title>Interact</title>
5       <link rel="shortcut icon" type="image/jpeg" href="images/oct.jpeg"/>
6       <meta name="viewport" content="width=device-width, initial-scale=1">
7       <link rel="stylesheet" type="text/css" href="theStyle.css">
8       <link href="https://fonts.googleapis.com/css?family=Sen&display=swap" rel="stylesheet">
9
10      </head>
11  ▼   <body id=home>
12       <h1>INTERACTIVE ART</h1>
13       <h2>JOSEPHINE LEE</h2>
14       <div id=ocean><a class=oceanLink href="ocean.html">Ocean</a></div>
15       <div id=oceanBack>OCEAN</div>
16       <div id=city><a class=cityLink href="city.html">City</a></div>
17       <div id=cityBack>CITY</div>
18       <div id=space><a class=spaceLink href="space.html">Space</a></div>
19       <div id=spaceBack>SPACE</div>
20   </body>
21 </html>
```

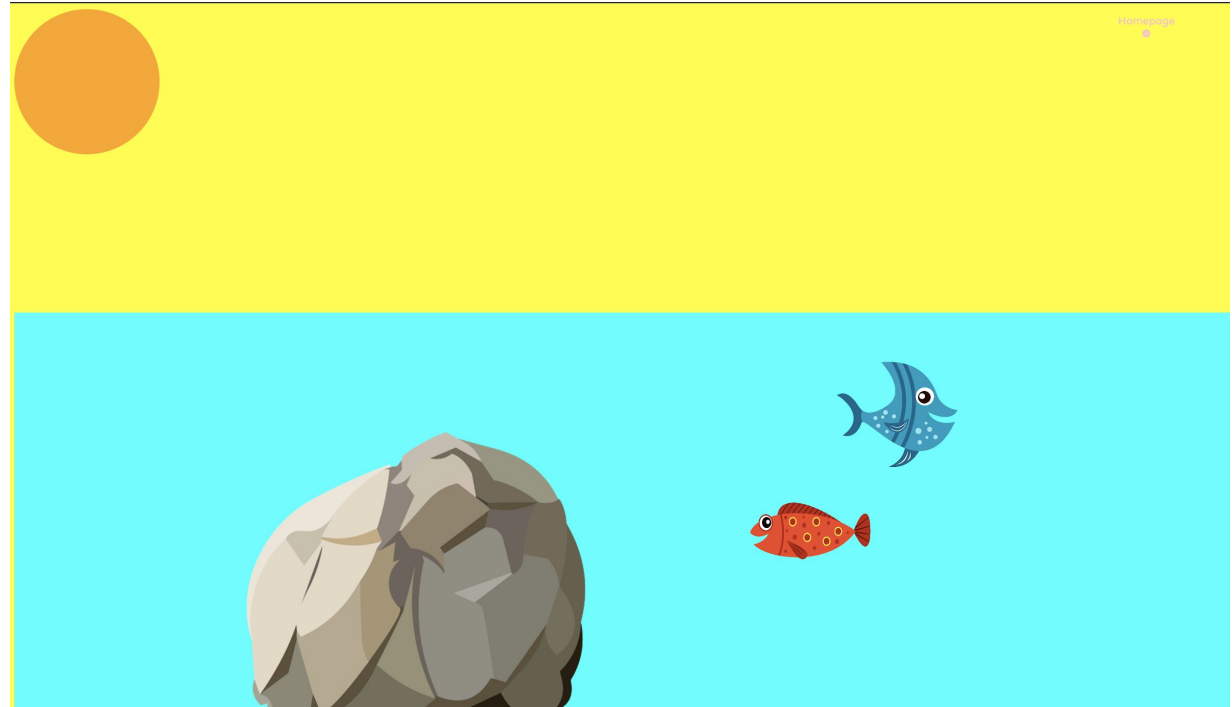
Home Page Code-CSS

```
1
2
3 ▾ #home{
4     background-color: black;
5     display: grid;
6     grid-template-columns: auto 8% 8% 8% auto;
7     grid-template-rows: 10% 10% 3% 10% 10% 17% 20% 20%;
8     grid-column-gap: 10vw;
9     width:100vw;
10    height:100vh;
11    font-family: 'Sen', sans-serif;
12
13 }
14
15
16 ▾ h1{
17     grid-column-start: 2;
18     grid-row-start: 1;
19     text-align: center;
20     color:white;
21     font-size: 4vw;
22     font-family: 'Sen', sans-serif;
23
24 }
25
26
27 ▾ a{
28     text-decoration: line-through;
29     font-family: 'Sen', sans-serif;
30 }
```

```
105 ▾ #oceanBack{
106
107     grid-column: 1/6;
108     grid-row:5/9;
109     opacity:0;
110     background-color:aqua;
111     color:white;
112     text-align: center;
113     font-size:25vw;
114
115 }
116
117 ▾ #ocean:hover + #oceanBack {
118     opacity: 1;
119 }
120 ▾ .oceanLink{
121     color:aqua;
122 }
```

When the div ocean is hovered, the div oceanBack would show up because the opacity is now 1 and not 0. The “+” sign just means that the hover of one element would affect another element.

Ocean



Ocean-HTML

```
1  <!DOCTYPE html>
2
3  <html>
4    <head>
5      <title>Interact</title>
6      <link rel="shortcut icon" type="image/jpeg" href="images/oct.jpeg"/>
7      <meta charset="utf-8">
8      <meta name="viewport" content="width=device-width, initial-scale=1">
9      <link rel="stylesheet" type="text/css" href="theStyle.css">
10     <link href="https://fonts.googleapis.com/css?family=Sen&display=swap" rel="stylesheet">
11     <script src="interact.js" defer></script>
12   <!--
      /*js is from stack overflow*/-->
13
14   </head>
15   <body id=oceanScreen>
16
17
18     <div id="sun"></div>
19     <button class="button">Click me</button>
20
21
22
23     <div id="bg"></div>
24     <div id=sunOcean></div>
25     <div class=water></div>
26     
27     
28     <div id=rock></div>
29     
30     <div id=treasurePop>YOU FOUND THE TREASURE</div>
31     <a id=homepageLink href="homepage.html"><button id=homeb>Homepage &#9787</button></a>
32
33   </body>
34 </html>
35
```

Ocean-CSS

```
195 ▼ #sun{
196     width:200px;
197     height:200px;
198     background-color: orange;
199     border-radius: 50%;
200     grid-column-start: 1;
201     grid-row-start: 1;
202     z-index:2;
203     transition: background-color 1s ease-out;
204 }
205
206
207 ▼ #sun:hover {
208     background-color: red;
209 }
210
211
212 ▼ #bg {
213     position: absolute;
214     top: 0;
215     right: 0;
216     bottom: 0;
217     left: 0;
218     width: 100%;
219     height: 100%;
220     z-index: 1;
221     background: yellow;
222 }
223
224 ▼ #sun:hover ~ #bg {
225     background: black;
226 }
```

This is another hover effect, but instead of only affect one element, this hover effect affects both the div that gets hovered and another div(background in this case)

Ocean-CSS

```
228 ▼ #fish{
229     width:50%;
230     height:auto;
231     z-index:2;
232     position: relative;
233     animation-name:fish;
234     animation-duration:8s;
235     animation-iteration-count:infinite;
236 }
237
238 ▼ @keyframes fish{
239     0% {top:70vh; left:50vw; opacity:0;}
240     10%{top:70vhx; left:25vw; opacity:1;}
241     99%{top:70vh; left:0vw;opacity:1}
242     100%{top:70vh; left:-25vw; opacity:0;}
243
244 }
```

This is CSS animations with keyframes, basically what controls the fish(png) and makes it move on the screen

Ocean-CSS

```
274 ▼ .rock{
275     width:140%;
276     height:auto;
277     z-index:3;
278     position:relative;
279     left:-80vw;
280     top:60vh;
281     transition: all 2s;
282 }
283
284 ▼ .rock:focus {
285     top:20vh;
286     outline:none;
287 }
```

“Focus” allows for user input using css, and in this case I use it for when you click on the rock, the rock moves up.

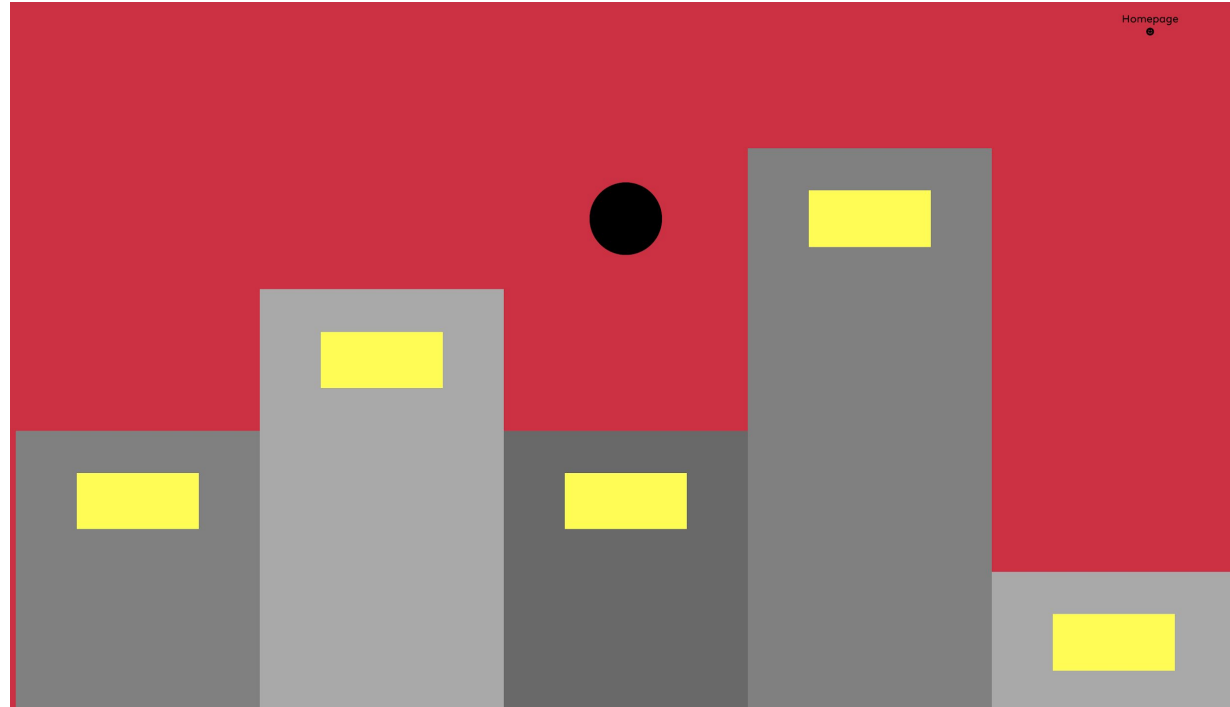
JS

```
233 ▼ .water{
234     background-color:aqua;
235     grid-area: 5/1/8/6;
236     z-index:2;
237
238 }
239
240 ▼ .water.is-active {
241     background: green;
242 }
243
```

This is a example of the only way I use JS in my code. This JS allows for me to select a certain element in my html, and if that element is clicked on then the certain class which is “is-active” will happen. I use it to change the color of certain divs.

```
1  const water = document.querySelector('.water')
2
3  water.addEventListener('click', _ => water.classList.toggle('is-active'))
4
```

City



City-HTML

```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Interact</title>
5      <link rel="shortcut icon" type="image/jpeg" href="images/oct.jpeg"/>
6      <meta charset="utf-8">
7      <meta name="viewport" content="width=device-width, initial-scale=1">
8      <link rel="stylesheet" type="text/css" href="theStyle.css">
9      <link href="https://fonts.googleapis.com/css?family=Sen&display=swap" rel="stylesheet">
10     <script src="city1.js" defer></script>
11     <script src="city2.js" defer></script>
12     <script src="city3.js" defer></script>
13     <script src="city4.js" defer></script>
14     <script src="city5.js" defer></script>
15     <script src="citySun.js" defer></script>
16     <!--      /*js is from stack overflow*/-->
17
18   </head>
19   <body class=city>
20     <div id=cityBackOne></div>
21     <div class=cityWindowOne></div>
22     <div id=cityBackTwo></div>
23     <div class=cityWindowTwo></div>
24     <div id=cityBackThree></div>
25     <div class=cityWindowThree></div>
26     <div id=cityBackFour></div>
27     <div class=cityWindowFour></div>
28     <div id=cityBackFive></div>
29     <div class=cityWindowFive></div>
30     <div class=sunBg></div>
31     <a id="homepageLink" href="homepage.html"><button id=homebc>Homepage &#9787</button></a>
32   </body>
33 </html>
34
```

City-CSS

```
415 ▼ #cityBackFive{
416     background-color: darkgray;
417     grid-column:5/6;
418     grid-row:5/8;
419     z-index:2;
420
421 }
422 }
423 ▼ .cityWindowFive{
424     background-color:yellow;
425     width:10vw;
426     height:8vh;
427     align-self:center;
428     justify-self:center;
429     grid-column:5/6;
430     grid-row:5/6;
431     z-index:2;
432
433 }
434 }
435 ▼ .cityWindowFive.is-active {
436     background: black;
437
438 }
```

This is another example of CSS using the same JS for the water element in the Ocean piece.

City-CSS

```
414 }
415
416 ▼ @media(max-width:1000px){
417   ▼ #cityBackOne{
418     background-color: orange;
419   }
420 }
421 ▼ @media(max-width:1100px){
422   ▼ #cityBackTwo{
423     background-color: green;
424   }
425 }
426 ▼ @media(max-width:1200px){
427   ▼ #cityBackThree{
428     background-color: blue;
429   }
430 }
431 ▼ @media(max-width:1300px){
432   ▼ #cityBackFour{
433     background-color: pink;
434   }
435 }
436 ▼ @media(max-width:1400px){
437   ▼ #cityBackFive{
438     background-color: white;
439   }
440 }
441
```

```
415 ▼ #cityBackFive{
416   background-color: darkgray;
417   grid-column:5/6;
418   grid-row:5/8;
419   z-index:2;
420
421
422 }
423 ▼ .cityWindowFive{
424   background-color:yellow;
425   width:10vw;
426   height:8vh;
427   align-self:center;
428   justify-self:center;
429   grid-column:5/6;
430   grid-row:5/6;
431   z-index:2;
432
433
```

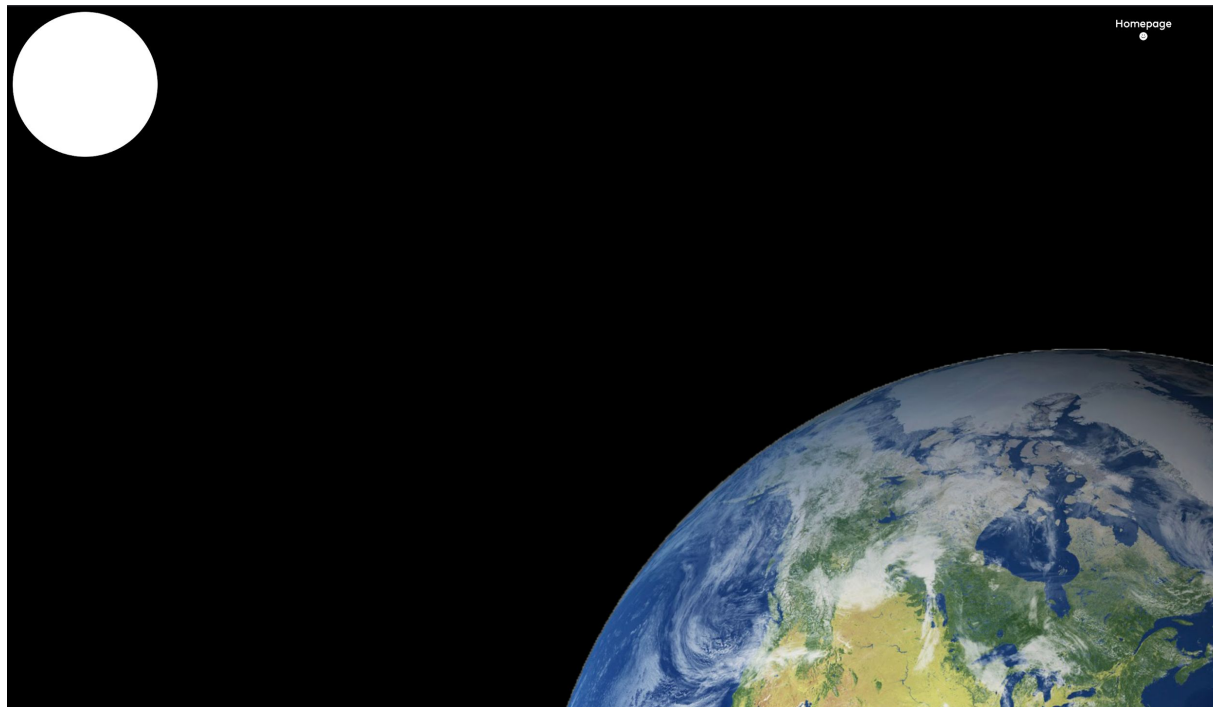
color is

City-CSS

```
445 ▾ .sunBg{
446     height:100px;
447     width:100px;
448     background:black;
449     border-radius: 100px 100px 100px 100px;
450     z-index:0;
451     align-self:center;
452     justify-self:center;
453     grid-column:3/4;
454     grid-row:2/3;
455 }
456
457 ▾ .sunBg.is-active{
458     animation: grow 5s;
459 }
460
461 ▾ @keyframes grow{
462     from{
463         transform: scale(1);
464     }
465     to{
466         transform: scale(100);
467     }
468 }
```

This is another example of the use of JS, where when this element is clicked a certain class is activated, but instead of just changing colors, this activated a CSS animation with keyframes.

Space



[Homepage](#)

Space-HTML

```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Interact</title>
5      <link rel="shortcut icon" type="image/jpeg" href="images/oct.jpeg"/>
6      <meta name="viewport" content="width=device-width, initial-scale=1">
7      <link rel="stylesheet" type="text/css" href="theStyle.css">
8      <meta charset="utf-8">
9      <link href="https://fonts.googleapis.com/css?family=Sen&display=swap" rel="stylesheet">
10     <script src="hidden.js" defer></script>
11   <!--      /*js is from stack overflow*/-->
12
13
14
15
16   </head>
17   <body class="space">
18     <div id="moon"></div>
19     <div id="earth"></div>
20     <div id="earthPop"> THIS IS THE EARTH &#9786; </div>
21     
22     <div id="plutoPop">YOU FOUND PLUTO</div>
23     <a id="homepageLink" href="homepage.html"><button id="homebs">Homepage &#9787</button></a>
24
25   </body>
26 </html>
```

Space-CSS

```
481 /*//////////SPACE//////////*/
482
483
484
485 ▾ .space{
486   background-color: black;
487   display: grid;
488   grid-template-columns: 20% 20% 20% 20% 20%;
489   grid-template-rows: 20% 3% 10% 10% 17% 20% 20%;
490   width:100vw;
491   height:100vh;
492 }
493
494 ▾ .space.is-active{
495   background-image: url("https://scx1.b-cdn.net/csz/news/800/2019/galaxy.jpg");
496   background-size:cover;
497 }
498
499 ▾ #moon{
500   width:200px;
501   height:200px;
502   background-color: white;
503   border-radius: 50%;
504   grid-column-start: 1;
505   grid-row-start: 1;
506   transition: background-image 1s ease-out;
507 }
508
509
510 ▾ #moon:hover{
511   background-image: url('https://upload.wikimedia.org/wikipedia/commons/e/e1/Jupiter_%28transparent%29.png');
512   background-size:cover;
513 }
514
515
516
517 ▾ #earth{
518   width:1000px;
519   height:800px;
520   background-image: url("https://pngimg.com/uploads/earth/earth_PNG39.png");
521   border-top-left-radius:100%;
522   border-top-right-radius:0;
523   border-bottom-left-radius:0;
524   border-bottom-right-radius:0;
525   grid-column-start:3;
526   grid-row:5/8;
527 }
528
529 ▾ #earthPop{
530   width:50vw;
531   height:20vh;
532   font-size:5vw;
533   text-align:center;
534   background-color:blue;
535   color:white;
536   grid-column-start:3;
537   grid-row-start:4;
538   opacity:0;
539   border-radius: 20px;
540
541 }
542
543
544
545 ▾ #earth:~hover + #earthPop{
546   opacity:1;
547 }
548
```

This art piece doesn't consist of any new CSS concepts, it was more just visuals and seeing how you can manipulate the size of pngs.

Final Thought

If I were to continue and go further with this project, I would definitely explore and find more cool ways to interact with CSS and also be able to use more JS to do even cooler things.
