WL Hack Club && Hack Club Edison 2024-03-06

Today's Goal:

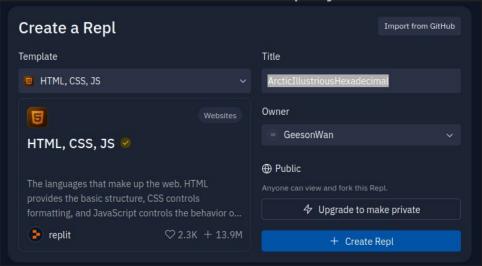


Getting Started

Open up replit.

https://repl.it/languages/html

2. Create new project



Setting Up:

Delete <meta name="viewport" content="width=device-width"> (line 6) in the HTML file.

Setting Up:

Delete line 11 and replace with the following code.

```
<div class="clock">
    <div class="clock-face">
        <div class="hand hour-hand"></div>
        <div class="hand min-hand"></div>
        <div class="hand second-hand"></div>
        </div>
        </div></div>
```

CSS Part 1

Delete the contents in the style.css file and replace it with the following:

```
body {
  background: #01ed7f;
  margin: 0;
  padding: 0;
  display: flex;
  align-items: center;
  justify-content: center;
  min-height: 100vh;
}
```

CSS Part 2

Add the following code in at the end of the previous CSS property.

```
.clock {
  width: 25rem;
  height: 25rem;
  border: 20px solid whitesmoke;
  border-radius: 50px;
  background: blanchedalmond;
  background-image: url(https://bit.ly/2RcERUw);
  background-size: cover;
  box-shadow: 0 0 0 4px rgba(0, 0, 0, 0.1), inset 0 0 0 3px #efefef,
  inset 0 0 10px black, 0 0 10px rgba(0, 0, 0, 0.2);
}
```

CSS Part 3

Now we will add the CSS for each element of the clock.

```
.clock-face {
  position: relative;
  width: 100%;
  height: 100%;
}
```

```
.hour-hand {
 width: 30%;
 right: 50%;
.min-hand {
 width: 35%;
 right: 50%;
.second-hand {
 width: 40%;
 right: 50%;
```

JavaScript: Initializing Variables

Add the following variables in the script.js file.

```
const secondHand = document.querySelector('.second-hand')
const minHand = document.querySelector('.min-hand')
const hourHand = document.querySelector('.hour-hand')
```

JavaScript: the setTime function

Add this function below the constants.

```
function setTime() {
 const currentTime = new Date()
 const seconds = currentTime.getSeconds()
 const secondDeg = (seconds / 60) * 360 + 90
 secondHand.style.transform = `rotate(${secondDeg}deg)`
 const mins = currentTime.getMinutes()
 const minsDeg = (mins / 60) * 360 + 90
 minHand.style.transform = `rotate(${minsDeg}deg)`
 const hours = currentTime.getHours()
 const hoursDeg = (hours / 12) * 360 + 90
 hourHand.style.transform = `rotate(${hoursDeg}deg)`
 if (seconds == 0) {
   secondHand.style.transitionDuration = '0s'
   minHand.style.transitionDuration = '0s'
   hourHand.style.transitionDuration = '0s'
 } else {
   secondHand.style.transitionDuration = '0.05s'
   minHand.style.transitionDuration = '0.05s'
   hourHand.style.transitionDuration = '0.05s'
 requestAnimationFrame(setTime)
setTime()
```