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TP1 Assignment

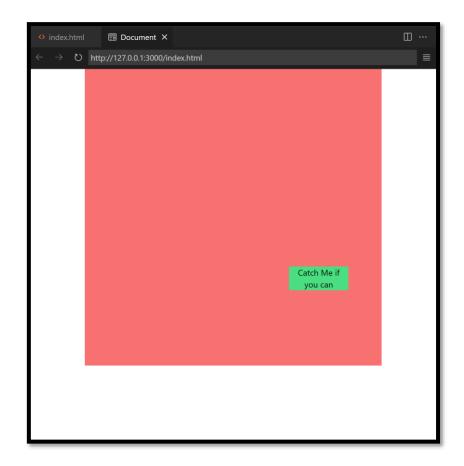
Git url: https://github.com/yourname/tp01

Ex01. Runaway button

```
<!DOCTYPE html>
     <html lang="en">
     <meta charset="UTF-8">
      <meta http-equiv="X-UA-Compatible" content="IE=edge">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
       <title>Document</title>
       <script src="https://cdn.tailwindcss.com"></script>
       <script src="tween.umd.js"></script>
      <div class="m-auto w-[500px] h-[500px] ■bg-red-400 ">
        <button id="btn" class="px-2 w-[100px] ■bg-green-400 text-sm">Catch
        Me if you can</putton>
     <script>
      let btnEle = document.getElementById('btn');
       let currCoords = { x: 0, y: 0 };
       btnEle.addEventListener("mouseover", () => {
         let coords = currCoords; // start coordination
         const nextPos = generateNextPos();
         const tween = new TWEEN.Tween(coords)
           .to(nextPos, 500) // end coordination
           .easing(TWEEN.Easing.Quadratic.Out)
29
           .onUpdate(() => {
            btnEle.style.setProperty('transform', `translate(${coords.x}px,
             ${coords.y}px)`);
             currCoords = { x: coords.x, y: coords.y };
```

```
.onUpdate(() => {
     btnEle.style.setProperty('transform', `translate(${coords.x}px,
     ${coords.y}px)`);
currCoords = { x: coords.x, y: coords.y };
    .start()
function generateNextPos() {
  const xmax = 400, xmin = 0;
  const ymax = 400, ymin = 0;
  const newX = Math.floor(Math.random() * (xmax - xmin)) + xmin;
  const newY = Math.floor(Math.random() * (ymax - ymin)) + ymin;
  if (Math.sqrt(Math.pow(newX - currCoords.x) + Math.pow(newY -
  currCoords.y)) <= 100) {</pre>
   return generateNextPos();
function animate(time) {
 requestAnimationFrame(animate)
 TWEEN.update(time)
requestAnimationFrame(animate);
```

Output:



Ex02. Multi-Projection

```
index.html X
                                                           显 田 …
<!DOCTYPE html>
      <html lang="en">
       <meta charset="UTF-8">
       <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width,</pre>
        initial-scale=1.0">
       <title>Ex2</title>
      </style>
       <div class="wrapper">
          <canvas id="viewport" width="640" height="480">
         <span>Canvas 🚱: Please show your face on me</span>
          <button id="play-btn" onclick="onOpenWebcame()">Play/
         button>
       </div>
      </body>
 40
        const canvas = document.querySelector('canvas');
        var video = document.createElement('video');
        video.autoplay = true;
        video.playsInline = true;
        let playing = false;
        function onOpenWebcame() {
          playing = !playing;
          canvas.width = video.videoWidth:
```

```
document.querySelector('#play-btn').innerHTML = playing ?
    'Pause' : 'Play';

function handleSuccess(stream) {
    // window.stream = stream; // make stream available to browser console
    video.srcObject = stream;
}

function handleError(error) {
    console.log('navigator.MediaDevices.getUserMedia error: ', error.message, error.name);
}

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```

Output:

