```
<html lang="en">
   <link rel="icon" href=Resources/"ManStand.png" type="image/x-icon">
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="ie=edge" />
    <meta name="author" content="YG" />
    <link rel="icon" href="/Resources/ManStand.png" type="image/x-icon" />
   <title>Path To Freedom</title>
   <h1>The Path To Freedom</h1>
     <source src="Resources/Menu.mp3" type="audio/mp3" />
     window.onload = function () {
       let audio = new Audio("Resources/Menu.mp3");
       audio.play();
    <video autoplay muted loop id="Menu Video" class="bg-video">
     Your browser does not support HTML5 video.
    <div class="content">
   <img id="watermark" src="Resources/Bedroom.png" />
    Made by Chen YG
    Specifically for Ha Khue 2023
    <a id="Developer" href="LevelSelect.html">Developer Mode</a>
<html lang="en">
   <meta charset="UTF-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <meta http-equiv="X-UA-Compatible" content="ie=edge" />
    k rel="icon" href=Resources/ManStand.png type="image/x-icon"></head</pre>
     <h1>Select your Level</h1>
```

```
<div class="containers">
      <a href="Level1/loading.html">
           <img src="Resources/Level1preview.png">
    <div class="container2">
      <a href="Level2/loading.html">
           <img src="Resources/Level2preview.png">
<html lang="en">
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
<meta http-equiv="X-UA-Compatible" content="ie=edge" />
    <title>Password Access</title>
    For Khue and Friends Only
      <input type="password" id="myInput" placeholder="Enter Password Here" />
<input type="submit" value="Submit" />
         .getElementById("myForm")
         .addEventListener("submit", function (event) {
           event.preventDefault();
           var userInput = document.getElementById("myInput").value;
           if (userInput == "H@1CHAU") {
  window.location.href = "Menu.html";
             alert("Wrong password, please try again");
```

```
background: black;
    display: flex;
    align-items: center;
*, *::before, *::after {
   box-sizing: border-box;
    font-size: 100%;
   font-family: 'Comic Sans MS', 'Chalkboard SE', 'Comic Neue', sans-seriF;
text-decoration: italic;
   text-align: center;
   margin-top: 0; /* Reset margin-top */
   padding: 3%;
    max-width: 100%;
    display: grid;
    grid-template-columns: 1fr 1fr;;
    column-gap: 3%;
.container2 {
    text-decoration: none;
.container1 p,
.container2 p {
   color: black;
.container2 img {
   width: 100%;
   height: auto;
    object-fit: scale-down;
   text-decoration: none;
   background-color: black;
    display: flex;
    flex-direction: column;
   align-items: center;
    justify-content: center;
   text-align: center;
font-family: comic sans MS, monospace, sans-serif;
    color: deeppink;
    font-size: 400%; /* Assuming base font-size to be 16px */
    padding-bottom: 0.0625%;
    margin-bottom: 6.25%;
```

```
padding-top: 3.125%;
    font-family: comic sans MS, monospace, sans-serif;
    text-decoration: none;
    background: darkgreen;
    padding-left: 1.25%;
    padding-right: 1.25%;
    padding-top: 0.625%;
padding-bottom: 0.625%;
    font-family: comic sans MS, monospace, sans-serif;
    font-family: comic sans MS, monospace, sans-serif;
    background: darkred;
    text-decoration: none;
    font-size: 200%;
    padding-top: 0.625%;
    padding-bottom: 0.625%;
    padding-left: 18.75%;
    padding-right: 18.75%;
    position: relative; right: 18.75%;
    margin-top: 10%;
    text-align: center;
    background: gray;
    margin: 0.625%;
#Developer {
    color: gray;
    text-decoration: none;
    background-color: darkblue;
    text-decoration: none;
    font-family: comic sans MS, monospace, sans-serif;
    padding: 0.1875%;
.bg-video {
    position: fixed;
    top: 0:
    left: 0;
    height: auto;
#Back {
 background-color: darkgreen;
```

```
font-size: 130%;
 height: 50px;
 align-items: left;
  margin-left: 1.5%;
 font-family: "Comic Sans MS", "Chalkboard SE", "Comic Neue", sans-serif;
 margin-bottom: 0.9%;
 margin-top: 0.3%;
body {
 background-color: black;
 background-color: blue;
  position: absolute;
  left: 85%;
  bottom: 90%;
  font-family: "Comic Sans MS", "Chalkboard SE", "Comic Neue", sans-serif;
  font-size: 130%;
 padding: 0.5%;
   <title>The Path to Freedom</title>
    <link rel="icon" href="../Resources/ManStand.png" type="image/x-icon" />
    <script src="startgame.js"></script>
    <a href="../Menu.html"><button id="Back">Back to Menu</button> </a>
   Restart Level
     document.getElementById("Skip").onclick = function () {
       refreshPage();
      function refreshPage() {
       location.reload();
<!DOCTYPE html>
   <title>The Path to Freedom</title>
```

```
<link rel="icon" href="../Resources/ManStand.png" type="image/x-icon" />
    <script src="startgame.js"></script>
    <script src="obstacle.js"></script>
    <a href="../Menu.html"><button id="Back">Back to Menu</button> </a>
    Restart Level
     document.getElementById("Skip").onclick = function () {
       refreshPage();
      function refreshPage() {
      location.reload();
<!DOCTYPE html>
    <title>The Path to Freedom</title>
    <link rel="icon" href="../Resources/ManStand.png" type="image/x-icon" />
       document.addEventListener("DOMContentLoaded", function() {
           document.getElementById("playButton").addEventListener("click", function() {
               var video = document.getElementById("myVideo");
               video.style.display = "block";
               video.play();
     body {
       background: black;
      h1 {
       background: green;
        text-align: center;
       padding: 1%;
        font-family: comic sans ms;
       text-decoration: none;
      #playButton {
       font-family: comic sans ms;
        font-size: 150%;
        background: blue;
        height: 60px;
```

```
<button id="playButton">Play Cutscene</button>
    id="myVideo"
     width="90%"
     height="auto"
     controls
     Your browser does not support the video tag.
body {
   padding: 0;
   margin: 0;
   background: black;
   padding-left: 2%;
   text-align: left;
   padding-bottom: 0;
    margin-bottom: 0;
   margin-top: 0;
   padding-top: 1%;
   text-align: center;
   width: 30%;
   border: solid 1px;
   background-color: blue;
   font-family: comic sans ms;
color: white;
   cursor: pointer;
   background: yellow;
   color: black;
   cursor: pointer;
   background: black;
   padding-bottom: 1%
#defaultCanvas0 {
   border: solid 1px gray;
   margin-left: 15%
```

```
if (isLeft && isFalling) {
 fill(128, 6, 23);
 rect(gameChar_x - 6.5, gameChar_y - 50, 13, 30, 4);
 fill(229, 190, 164);
 ellipse(gameChar_x, gameChar_y - 60, 25);
 rect(gameChar_x - 13, gameChar_y - 20, 10, 6);
 rect(gameChar_x + 3, gameChar_y - 15, 10, 6, 4);
 fill(0, 0, 0); //left eye
 ellipse(gameChar_x - 6, gameChar_y - 51, 3);
else if (isJump == true && isLeft == true) {
 rect(gameChar_x - 6.5, gameChar_y - 50, 13, 30, 4);
 fill(229, 190, 164);
 ellipse(gameChar_x, gameChar_y - 60, 25);
 rect(gameChar_x - 13, gameChar_y - 20, 10, 6, 4);
 rect(gameChar_x + 3, gameChar_y - 15, 10, 6, 4);
 fill(0, 0, 0); //left eye
 ellipse(gameChar_x - 6, gameChar_y - 63, 3);
else if (isRight && isJump) {
 stroke(0, 0, 0);
rect(gameChar_x - 6.5, gameChar_y - 50, 13, 30, 4);
 ellipse(gameChar_x, gameChar_y - 60, 25);
 rect(gameChar_x + 3, gameChar_y - 20, 10, 6, 4);
```

```
rect(gameChar_x - 13, gameChar_y - 15, 10, 6, 4);
 fill(0, 0, 0);
 ellipse(gameChar_x + 6, gameChar_y - 67, 3);
else if (isRight && isFalling) {
 stroke(0, 0, 0);
rect(gameChar_x - 6.5, gameChar_y - 50, 13, 30, 4);
 fill(229, 190, 164);
 ellipse(gameChar_x, gameChar_y - 60, 25);
 rect(gameChar_x + 3, gameChar_y - 20, 10, 6, 4);
 rect(gameChar_x - 13, gameChar_y - 15, 10, 6, 4);
  ellipse(gameChar_x + 6, gameChar_y - 57, 3);
else if (isLeft == true) {
 fill(128, 6, 23);
 stroke(0, 0, 0);
 rect(gameChar_x - 6.5, gameChar_y - 39, 13, 30, 4);
 fill(229, 190, 164);
 ellipse(gameChar_x, gameChar_y - 50, 25);
 rect(gameChar_x, gameChar_y - 10, 10, 6, 4);
 rect(gameChar_x - 15, gameChar_y - 10, 10, 6, 4);
 fill(0, 0, 0); //Left eye
ellipse(gameChar_x - 6, gameChar_y - 51, 3);
else if (isRight == true) {
 fill(128, 6, 23);
 stroke(0, 0, 0);
  rect(gameChar_x - 6.5, gameChar_y - 39, 13, 30, 4);
 fill(229, 190, 164);
```

```
ellipse(gameChar_x, gameChar_y - 50, 25);
  rect(gameChar_x + 5, gameChar_y - 10, 10, 6, 4);
 fill(0);
 rect(gameChar_x - 10, gameChar_y - 10, 10, 6, 4);
  fill(0, 0, 0);
 ellipse(gameChar_x + 6, gameChar_y - 51, 3);
 fill(128, 6, 23);
 stroke(0, 0, 0);
rect(gameChar_x - 6.5, gameChar_y - 50, 13, 30, 4);
 fill(229, 190, 164);
 ellipse(gameChar_x, gameChar_y - 60, 25);
 rect(gameChar_x + 3, gameChar_y - 15, 10, 6, 4);
 rect(gameChar_x - 13, gameChar_y - 15, 10, 6, 4);
 fill(0, 0, 0); //right eye
 ellipse(gameChar_x + 6, gameChar_y - 53, 3);
 ellipse(gameChar_x - 6, gameChar_y - 53, 3);
else if (isJump == true) {
  rect(gameChar_x - 6.5, gameChar_y - 39, 13, 30, 4);
 fill(229, 190, 164);
 ellipse(gameChar_x, gameChar_y - 50, 25);
 fill(0);
 rect(gameChar_x + 3, gameChar_y - 10, 10, 6, 3);
 rect(gameChar_x - 13, gameChar_y - 10, 10, 6, 3);
 ellipse(gameChar_x + 6, gameChar_y - 57, 3);
 fill(0, 0, 0); //left eye
 ellipse(gameChar_x - 6, gameChar_y - 57, 3);
```

```
fill(128, 6, 23);
    rect(gameChar_x - 6.5, gameChar_y - 39, 13, 30, 4);
    fill(229, 190, 164);
    ellipse(gameChar_x, gameChar_y - 50, 25);
    fill(0);
    rect(gameChar_x + 3, gameChar_y - 10, 10, 6, 3);
    rect(gameChar_x - 13, gameChar_y - 10, 10, 6, 3);
    ellipse(gameChar_x + 6, gameChar_y - 51, 3);
    fill(0, 0, 0); //left eye
    ellipse(gameChar_x - 6, gameChar_y - 51, 3);
//----X
function drawStars() {
 let r = 5;
  ellipse(gameChar_x - 400, 100, r);
  ellipse(gameChar_x + 400, 150, r);
  ellipse(gameChar_x + 400, 150, r);
  ellipse(gameChar_x + 350, 200, r);
  ellipse(gameChar_x + 430, 350, r);
  ellipse(gameChar_x + 300, 150, r);
  ellipse(gameChar_x + 200, 150, r);
 ellipse(gameChar_x + 250, 200, r);
ellipse(gameChar_x + 170, 350, r);
 ellipse(gameChar_x - 330, 350, r);
ellipse(gameChar_x - 200, 150, r);
ellipse(gameChar_x - 100, 150, r);
ellipse(gameChar_x - 150, 200, r);
ellipse(gameChar_x - 70, 350, r);
 ellipse(gameChar_x - 400, 150, r);
ellipse(gameChar_x - 500, 200, r);
  ellipse(gameChar_x - 450, 350, r);
function drawClouds() {
  //-----X
  for (var i = 0; i < cloud_x.length; i++) {</pre>
   gametime = millis();
    if (gametime < 100000) {</pre>
      increment -= 0.015;
    } else if (gametime > 100000) {
      increment += 0.015;
      cloud_x[i].xPos + increment, //make sure that clouds move to the right
      130 + cloudbop, //add bopping effect to cloud
```

```
ellipse(cloud_x[i].xPos * cloud_x[i].scale - 50 + increment, 130 + cloudbop, 100, 110);
             ellipse(cloud_x[i].xPos * cloud_x[i].scale - 50 + increment, 100 + cloudbop, 80, 80);
             ellipse(cloud_x[i].xPos * cloud_x[i].scale - 100 + increment, 130 + cloudbop, 100, 100);
             ellipse(cloud_x[i].xPos * cloud_x[i].scale - 50 + increment, 130 + cloudbop, 50, 50);
             ellipse(cloud_x[i].xPos * cloud_x[i].scale - 140 + increment, 130 + cloudbop, 80, 50);
    for (var i = 0; i < cloud2_x.length; i++) {</pre>
      ellipse(cloud2_x[i].xPos * cloud2_x[i].scale + increment * 3, 70, 50, 50);
ellipse(cloud2_x[i].xPos * cloud2_x[i].scale - 20 + increment * 3, 70, 40, 40);
ellipse(cloud2_x[i].xPos * cloud2_x[i].scale - 40 + increment * 3, 70, 20, 20);
ellipse(cloud2_x[i].xPos * cloud2_x[i].scale + 25 + increment * 3, 70, 40, 40);
       ellipse(cloud2_x[i].xPos * cloud2_x[i].scale + increment * 2, 150, 70, 70);
      ellipse(cloud2_x[i].xPos * cloud2_x[i].scale - 20 + increment * 2, 150, 60, 60);
ellipse(cloud2_x[i].xPos * cloud2_x[i].scale - 40 + increment * 2, 150, 40, 40);
       ellipse(cloud2_x[i].xPos * cloud2_x[i].scale + 25 + increment * 2, 150, 60, 60);
function LevelEnd() {
 rect(3800, floorPos_y, 500, 150);
  rect(3800, floorPos_y + 50 + bop * 0.75, 500 - 10, 100);
  bubblex = random(3800 + 30, 3800 + 500 - 22);
  bubbley = random(floorPos_y + 150, floorPos_y + 70);
  fill(250, 114, 56);
 circle(bubblex, bubbley, 10):
  //-----CANYON WALLS-----
  stroke(80);
 rect(3800, floorPos_y, 20, 150);
rect(3800 + 500 - 10, floorPos_y, 20, 150);
 rect(4300, 0, 400, 432);
  fill(188, 156, 102);
  rect(3800, 432, 500, 20);
  //Draw String
 line(4300, 50, 3800, 432);
  ellipse(4300, 432, 30, 30);
  ellipse(4300, 50, 30, 30);
  fill(127, 127, 127);
  ellipse(4300, 50, 10, 10);
  fill(127, 127, 127);
```

```
ellipse(3800, 440, 30, 30);
  ellipse(3800, 440, 10, 10);
 drawBricks();
 arc(-835, 100, 70, 50, PI, TWO_PI);
 rect(-870, 100, 70, 80);
arc(-565, 100, 70, 50, PI, TWO_PI);
function drawBricks() {
 drawbirck();
  for (let i = 0; i < 8; i++) {
   for (let j = 0; j < 10; j++) {
image(bricks, 4300 + i * 50, floorPos_y - 50 - j * 50, 50, 50);
   for (let j = 0; j < 15; j++) {
  image(bricks, -900 + i * 50, floorPos_y - 50 - j * 50, 50, 50);</pre>
function drawTrees() {
  for (var i = 0; i < trees_x.length; i++) {</pre>
    rect(trees_x[i].xPos * trees_x[i].scale + 212, 288, 33, 144);
    triangle(
      trees_x[i].xPos * trees_x[i].scale + 180,
      trees_x[i].xPos * trees_x[i].scale + 280,
      trees_x[i].xPos * trees_x[i].scale + 230,
      260
      trees_x[i].xPos * trees_x[i].scale + 180,
      340, //left angle
trees_x[i].xPos * trees_x[i].scale + 280,
      trees_x[i].xPos * trees_x[i].scale + 230,
    fill(0, 120, 0); //tree branch color
      trees_x[i].xPos * trees_x[i].scale + 190,
      trees_x[i].xPos * trees_x[i].scale + 270,
```

```
300, //right angle
trees_x[i].xPos * trees_x[i].scale + 230,
      230
function drawGrass() {
  //----FOR LOOP FOR GRASS REPEAT-----X
  for (var i = 0; i < grass2_x.length; i++) {</pre>
    image(grass2, grass2_x[i], floorPos_y - 150, 150, 150);
  for (var i = 0; i < grass3_x.length; i++) {
  image(grass3, grass3_x[i], floorPos_y - 130, 130, 130);</pre>
  for (var i = 0; i < grass_x.length; i++) {
   image(grass, grass_x[i], floorPos_y - 50, 50, 50);</pre>
  dog();
var doggo_x = 550;
let movingRight = false; // Initialize outside of the function
function dog() {
  let doggo_y = floorPos_y - 100;
push(); // Save current transformation matrix
  if (doggo_x <= 550 && doggo_x > 0 && !movingRight) {
    doggo_x -= 0.5;
     if (doggo_x == 0) {
      movingRight = true;
    image(doggo, doggo_x, doggo_y);
  } else if (movingRight) {
    doggo_x += 0.5;
    if (doggo_x == 550) {
      movingRight = false;
    translate(doggo_x + doggo.width, doggo_y);
    image(doggo, 0, 0);
  pop(); // Restore the transformation matrix
function drawMoon() {
  image(moon, gameChar_x + 200, 30, 150, 150);
image(planet, gameChar_x - 400, 150, 150, 150);
function drawFriend() {
  image(friend, gameChar_x - 60, gameChar_y - 100 + cloudbop, 50, 50);
function drawMoutains() {
  for (var i = 0; i < moutain_x.length; i++) {</pre>
    fill(57, 67, 92);
```

```
moutain_x[i].xPos * moutain_x[i].scale + 100,
     258,
      moutain_x[i].xPos * moutain_x[i].scale + 300,
      moutain_x[i].xPos * moutain_x[i].scale,
   fill(70, 82, 112);
     moutain_x[i].xPos + 100 * moutain_x[i].scale,
     moutain_x[i].xPos + 200 * moutain_x[i].scale,
     moutain_x[i].xPos * moutain_x[i].scale,
    triangle(
      moutain_x[i].xPos + 200 * moutain_x[i].scale,
      moutain_x[i].xPos + 400 * moutain_x[i].scale,
     moutain_x[i].xPos + 40 * moutain_x[i].scale,
     moutain_x[i].xPos + 200 * moutain_x[i].scale,
      moutain_x[i].xPos + 450 * moutain_x[i].scale,
      moutain_x[i].xPos + 330 * moutain_x[i].scale,
function drawCollectible(collectable) {
 fill(218, 165, 32);
   collectable.x_pos,
   collectable.y_pos + bop,
35 * collectable.size,
   40 * collectable.size
   collectable.x_pos,
   collectable.y_pos + bop,
   25 * collectable.size,
   30 * collectable.size
  fill(218, 165, 32);
   collectable.x pos - 1,
   collectable.y_pos - 7 + bop,
   4 * collectable.size,
   20 * collectable.size
function checkCollectable(collectable) {
   dist(gameChar_x, gameChar_y, collectable.x_pos + 1, collectable.y_pos) < 35</pre>
   collectable.isFound = true;
   Found.play();
   game_score += 1;
```

```
function drawCanyon(canyon) {
 rect(canyon.x_pos + 30, floorPos_y, canyon.width - 20, 150);
 fill(225, 40, 0);
 rect(canyon.x_pos + 31, floorPos_y + 50 + bop * 0.75, canyon.width - 22, 100);
 bubblex = random(canyon.x_pos + 30, canyon.x_pos + canyon.width - 22);
bubbley = random(floorPos_y + 150, floorPos_y + 70);
 circle(bubblex, bubbley, 10);
 //-----//
 stroke(80);
 rect(canyon.x_pos + 10, floorPos_y, 20, 150);
 rect(canyon.x_pos + canyon.width - 10, floorPos_y, 20, 150);
function drawbirck() {
 fill(204, 0, 255, 50);
 image(bricks, 460, 210, 85, 20);
 rect(460, 230, 85, 98);
  fill(216, 130, 237);
 rect(random(460, 545), random(230, 330), 5, 10);
 image(bricks, 460, 330, 85, 20);
  image(bricks, 1082, 210, 60, 20);
 fill(204, 0, 255, 50);
  fill(216, 130, 237);
  rect(random(1007, 1130), random(230, 310), 5, 10);
  image(bricks, 1007, 330, 75, 20);
  image(bricks, 1082, 330, 60, 20);
  image(bricks, 1757, 210, 75, 20);
 image(bricks, 1832, 210, 75, 20);
 rect(random(1757, 1900), random(230, 310), 5, 10);
  image(bricks, 1757, 330, 75, 20);
  image(bricks, 1832, 330, 75, 20);
```

```
function sign() {
    if(gameChar_x > 3700) {
        text("I must reach the castle!",gameChar_x + 20, 370);
function drawEnemies() {
  for (var i = 0; i < enemies.length; i++) {</pre>
   enemies[i].draw();
    var enemiesContact = enemies[i].checkContact(gameChar_x, gameChar_y);
    if (enemiesContact) {
      manabarWidth = 0;
      if (lives < 0) {
function Enemy(x, y, range) {
 this.range = range;
  this.angle = 0;
  this.update = function () {
    this.currentX += this.inc;
    if (this.currentX >= this.x + this.range) {
     //move enemy back into position
this.inc = -2;
    } else if (this.currentX < this.x) {</pre>
      //move enemy back into position
      this.inc = 2;
  //draws the enemies-----//
this.draw = function () {
    //Enemy is a unstable monster that shakes and vibrates
    let shakyEnemy = random(0, 3);
   this.update();
    fill(255, 0, 0);
    push();
    translate(this.currentX + shakyEnemy, this.y - 40 + shakyEnemy);
    rotate(this.angle);
    pop();
      this.currentX - 39 + shakyEnemy,
      this.y - 91 + shakyEnemy,
    this.angle += 1;
  this.checkContact = function (gc_x, gc_y) {
```

```
var EnemyDist = dist(gc_x, gc_y, this.currentX, this.y);
    if (EnemyDist < 40) {</pre>
function star(x, y, radius1, radius2, npoints) {
  let angle = TWO_PI / npoints;
  let halfAngle = angle / 2.0;
  for (let a = 0; a < TWO_PI; a += angle) {</pre>
   let sx = x + cos(a) * radius2;
    let sy = y + sin(a) * radius2;
   sx = x + cos(a + halfAngle) * radius1;
sy = y + sin(a + halfAngle) * radius1;
    vertex(sx, sy);
function HUD() {
 rect(gameChar_x - 512, 0, 10000, 60);
rect(-1000, 0, 10000, 60);
  //-----X
  text("score: " + game_score, cameraPosX + 10, 40);
 healthbar();
 manabar();
  if (respawnCooldown == true && !die) {
    text("Respawning...", gameChar_x, 300);
    if (keyIsDown(LEFT_ARROW) && keyIsDown(RIGHT_ARROW)) {
      text("Both keys are pressed", gameChar_x, 300);
function control() {
 if (gametime >= 500 && !controlflypast) {
    textFont("comic sans MS");
      -increment * (-0.08 * increment),
      100
  if (gametime > 10000) {
    controlflypast = true; //make the control message disappear after 10 seconds
```

```
function manabar() {
 if (!isContact && manabarWidth > 0) {
   manabarWidth -= decrement * 0.8;
    red_Increase += 0.5 * 0.7;
   blue_Increase -= 0.5 * 0.7;
  if (isContact && manabarWidth < 200) {</pre>
   manabarWidth += decrement * 2;
   red_Increase -= 1;
   blue_Increase += 1;
  if (manabarWidth < 1) {</pre>
   isRight = false;
    isPlummeting = true;
    gravity = gravity * 1.1;
    gameChar_y += gravity;
    if (!livesDecremented) {
     livesDecremented = true;
     respawnCooldown = true;
     loseSound.play();
     isFalling = false;
     setTimeout(function () {
       Respawning.play(); //waits for lose sound to complete playing
     }, 1500);
     setTimeout(function () {
       manabarWidth = 200;
        red_Increase = 0;
       green_Increase = 0;
        blue_Increase = 255;
     }, 5000);
  text("Mana", gameChar_x - 180, 40);
  fill(red_Increase, green_Increase, blue_Increase);
 rect(gameChar_x - 100, 20, manabarWidth, 20);
function healthbar() {
          image(health, cameraPosX + 800, -10, 200, 80);
  } else if (lives == 2) {
          image(health, cameraPosX + 800, -10, 200, 80);
   rect(cameraPosX + 800, 0, 70, 60);
  } else if (lives == 1) {
   image(health, cameraPosX + 800, -10, 200, 80);
   rect(cameraPosX + 800, 0, 120, 60);
   image(health, cameraPosX + 800, -10, 200, 80);
   rect(cameraPosX + 800, 0, 200, 60);
   bg.stop();
function keyPressed() {
 if (keyCode == 37 && lose == false && die == false) {
   isLeft = true;
```

```
} else if (keyCode == 39 && lose == false && die == false) {
    isRight = true;
    keyCode == 38 &&
    (isJump == false) & (isFalling == false) &&
   isJump = true;
   jumpSound.play();
  } else if (keyPressed == 37 && keyIsDown(RIGHT_ARROW)) {
    isLeft = true;
   isRight = true;
function keyReleased() {
 // if statements to control the animation of the character when // keys are released.
 } else if (keyCode == 39) {
   isRight = false;
function checkCanyon(canyon) {
   gameChar_x > canyon.x_pos + 55 &&
    \label{eq:gameChar} {\tt gameChar}\_{\tt x} \ \ {\tt canyon.x}\_{\tt pos} \ + \ {\tt canyon.width} \ - \ 33 \ \&\&
    gameChar_y >= floorPos_y &&
    !livesDecremented
    isRight = false;
    isPlummeting = true;
   gravity = gravity * 1.1;
    gameChar_y += gravity;
   // Only trigger losing a life if not already decremented if (!livesDecremented && !die) {
      livesDecremented = true;
      respawnCooldown = true;
      loseSound.play();
      setTimeout(function () {
       Respawning.play(); //waits for lose sound to complete playing
      }, 1500);
function checkPlayerDie() {
 if (lose && lives > 0 && livesDecremented == true) {
    //----RESET BOOLEAN FLAGS-----//
    isFalling = false;
    textFont("comic sans MS");
    setTimeout(function () {
      respawn(); // Call respawn function to reset the player state
```

```
livesDecremented = false; // Reset the flag after respawning
      respawnCooldown = false;
      manabarWidth = 200;
     red_Increase = 0;
     green_Increase = 0;
      blue_Increase = 255;
   }, 5000); //responds in 3 seconds
  } else if (lives <= 0) {</pre>
   die = true;
   fill(0, 0, 0, 90);
rect(-2000, 0, 10000, height);
   fill(255);
text("GAME OVER", cameraPosX + 400, 300);
   const h1Elements = document.getElementsByTagName("h1");
    if (h1Elements.length > 0) {
     h1Elements[0].style.display = "block";
    const reloadElement = document.getElementById("reloadElement");
    reloadElement.addEventListener("click", function() {
     window.location.reload();
function respawn() {
 gameChar_x = width / 2;
 gameChar_y = 432;
 cameraPosX = 0; //reset camera position
 gravity = 2; // Reset gravity
isPlummeting = false;
 isFalling = false;
function renderFlagpole() {
 push();
 line(flagpole.x_pos, floorPos_y, flagpole.x_pos, floorPos_y - 250);
 fill(132, 0, 255);
 if (flagpole.isReached == true) {
    rect(flagpole.x_pos, floorPos_y - 250, 70, 50);
    image(doggo, flagpole.x_pos - 10, floorPos_y - 305);
    rect(flagpole.x_pos, floorPos_y - 50, 70, 50);
    image(doggo, flagpole.x_pos - 10, floorPos_y - 100);
function checkFlagpole() {
 var d = abs(gameChar_x - flagpole.x_pos);
 if (d < 15) flagpole.isReached = true;</pre>
function playerWin() {
   if(gameChar_x > 4350){
   textSize(30);
    rect(-2000, 0, 10000, height);
    text("YOU WIN", cameraPosX + 400, 300);
function interaction() {
 //--Prevent a bug where character doesnt plummet when in canyon--//
```

```
if (isPlummeting) {
  gravity = gravity * 1.1;
  gameChar_y += gravity;
if (gameChar_y > 434 && (isFalling == false || isPlummeting == false)) {
 gameChar\ y = floorPos\ y; //this is to prevent a bug where sometimes the character falls through the floor slowly
if (isLeft == true && (isJump == true || isFalling == true)) {
 gameChar_x -= 5;
if (isRight == true && (isJump == true || isFalling == true)) {
 gameChar_x += 5;
if (isRight == true && isLeft == true) {
 isRight = false;
  isLeft = false;
  cameraPosX = gameChar_x - 512;
if (isLeft == true && isJump == false && isFalling == false) {
  gameChar_x -= 5;
if (isRight == true && isJump == false && isFalling == false) {
  gameChar_x += 5;
  gameChar_y = gameChar_y + walkbop; //for walking animation
if (isJump == true) {
  gameChar_y -= 10;
  if (gameChar_y < 300) {</pre>
   isJump = false;
    isFalling = true;
if (gameChar_y <= floorPos_y) {</pre>
  for (var i = 0; i < platforms.length; i++) {</pre>
    if (platforms[i].checkContact(gameChar_x_world, gameChar_y) == true) {
      isFalling = false; //and is not falling
  if (!isContact && gameChar_y < 432) {</pre>
    gameChar_y += gravity * 1.3;
    isFalling = false;
else if (gameChar_y < floorPos_y) {</pre>
 isJump = false:
```

```
gameChar_y += gravity;
                            -----X
  else if (gameChar_y < floorPos_y && isRight == true) {</pre>
   isRight = true;
   isJump = true;
  else if (isJump && isRight == true) {
   isRight = true;
isJump = false;
   isFalling = true;
  else if (isJump && isLeft == true) {
   isJump = false;
    isFalling = true;
  else if (gameChar_y >= floorPos_y) {
   isFalling = false;
  else if (gameChar_y < floorPos_y && isLeft == true) {
   isLeft = true;
isJump = true;
  if (flagpole.isReached == false) {
   checkFlagpole();
  if (gameChar_y < 431 && !Inline) {</pre>
   isFalling = true;
 if (die == true) {
   gameChar_y = 1000;
function animations() {
  walkbop = 2 * sin(frameCount / 3); //for walking animation to bop
  Lavabopbop = 3 * sin(frameCount / 5); //for the lava to rise and fall
 cloudbop = 8 * sin(frameCount / 30); //for the cloud to rise and fall
 strokeWeight(2);
 fill(77, 114, 84);
 rect(0, floorPos_y, width, height - floorPos_y);
let hasAudioPlayed = false;
function Platform(x, y, length) {
  this.length = length;
  this.draw = function () {
   fill(255, 0, 255, 0);
   rect(this.x + 60, this.y, this.length - 120, 20);
  this.drawDebug = function () {
```

```
rect(this.x, this.y, this.length, 20);
  this.checkContact = function (gc_x, gc_y) {
    if (gc_x + 10 > this.x && gc_x < this.x + this.length - 10) {</pre>
      //Y-AXIS CONTACT CHECK-----// var d = this.y - gc_y; //distance between p0layer and platform y pos
      if (d >= 0 && d < 5) {
function checkIfCharacterIsOnAnyPlatform() {
  if (isFalling && Inline) {
    for (var i = 0; i < platforms.length; i++) {</pre>
      isContact = platforms[i].checkContact(gameChar_x_world, gameChar_y);
        onPlatforms = true:
  if (!isContact && gameChar_y < 431) {</pre>
    isFalling = true;
function drawPlatforms() {
  for (var i = 0; i < platforms.length; i++) {</pre>
    platforms[i].draw();
    platforms[i].drawDebug(); // This line draws the debug boxes
function createPlatform(x, y, length) {
  return new Platform(x, y, length);
function preload() {
  jumpSound = loadSound("Sounds/Jump.mp3");
  loseSound = loadSound("Sounds/Lose.mp3");
  Found = loadSound("Sounds/Found.mp3");
  bg = loadSound("Sounds/bg.mp3");
  Birds = loadSound("Sounds/Birds.mp3");
  Death = loadSound("Sounds/Death.mp3");
  Respawning = loadSound("Sounds/Respawning.mp3");
  win = loadSound("Sounds/win.mp3");
  grass = loadImage("Photos/grass.png");
  grass2 = loadImage("Photos/Grass2.png");
  grass3 = loadImage("Photos/Grass3.png");
  doggo = loadImage("Photos/doggo.png");
  moon = loadImage("Photos/moon.png");
friend = loadImage("Photos/friend.png");
  planet = loadImage("Photos/planet.png");
  bricks = loadImage("Photos/bricks.png");
  portal = loadSound("Sounds/portal.mp3");
  eye = loadImage("Photos/eye.png");
  health = loadImage("Photos/healthbar.png");
preload();
```

116 lines of code per page

```
startGame();
 bg.play();
 Birds.play();
 Birds.setVolume(2);
function draw() {
  background(13, 42, 117);
 isFalling = false;
 animations();
 if (isRight == true) {
   cameraPosX += 5;
   cameraPosX -= 5;
 push();
 translate(-cameraPosX, 0);
 gameChar_x_world = gameChar_x + cameraPosX;
 drawStars();
 drawMoon();
 drawClouds();
 drawMoutains();
 drawTrees();
 drawGrass();
 //----DRAW COIN----//
 checkCollectable(collectables[i]);
     drawCollectible(collectables[i]); // Always draw collectable unless it is found
 for (var i = 0; i < canyons.length; i++) {</pre>
   checkCanyon(canyons[i]);
   drawCanyon(canyons[i]);
 control();
drawCharacter();
 drawEnemies();
 drawFriend();
 drawBricks();
 LevelEnd();
 renderFlagpole();
 drawPlatforms();
 sign();
 checkIfCharacterIsOnAnyPlatform();
 pop();
 interaction();
 checkPlayerDie();
 playerWin();
function startGame() {
```

```
gameChar_x = width / 2;
gameChar_y = floorPos_y - 3;
gravity = 3;
isRight = false;
isFalling = false;
isJump = false;
onPlatforms = false;
                        -----//
moutain x = [
  { xPos: 3000, scale: 1 },
  { xPos: 3300, scale: 1 },
trees_x = [
  { xPos: -600, scale: 1 },
  { xPos: -500, scale: 1 },
   { xPos: -400, scale: 1 },
  { xPos: -300, scale: 1 },
  { xPos: 50, scale: 1 },
   { xPos: 2300, scale: 1 },
  { xPos: 2500, scale: 1 },
   { xPos: 2800, scale: 1 },
   { xPos: 3000, scale: 1 },
   { xPos: 3500, scale: 1 },
grass_x = [
  -600, -550, -530, -500, -450, -430, -300, -290, -70, -60, 0, 10, 50, 80, 120, 150, 200, 400, 430, 450, 680, 900, 1000, 1100, 1200, 1300, 1700, 1800,
  1900, 2000, 2450, 2500, 2600, 2700, 3200, 3250, 3300, 3350, 3400, 3700,
grass2_x = [400, 1700, 3300];
grass3_x = [40, 900, 1300];
castleX = [3500];
canyons = [
    { x_pos: -1700, width: 700 },
   { x_pos: 700, width: 200 }, { x_pos: 1400, width: 300 },
  { x_pos: 2100, width: 250 }, { x_pos: 2800, width: 150 },
collectables = [
  { x_pos: 300, y_pos: 405, size: 0.7, isFound: false },
```

```
{ x_pos: 540, y_pos: 405, size: 0.7, isFound: false },
         { x_pos: 800, y_pos: 300, size: 0.8, isFound: false },
         { x_pos: 1000, y_pos: 405, size: 0.7, isFound: false },
          { x_pos: 1200, y_pos: 405, size: 0.7, isFound: false },
         { x_pos: 1400, y_pos: 405, size: 0.7, isFound: false },
         { x_pos: 1550, y_pos: 300, size: 0.8, isFound: false },
         { x_pos: 1700, y_pos: 405, size: 0.7, isFound: false },
        { x_pos: 1900, y_pos: 405, size: 0.7, isFound: false },
        { x_pos: 2100, y_pos: 405, size: 0.7, isFound: false },
        { x_pos: 2400, y_pos: 405, size: 0.7, isFound: false },
        { x_pos: 2600, y_pos: 405, size: 0.7, isFound: false },
        { x_pos: 2800, y_pos: 405, size: 0.7, isFound: false },
        { x_pos: 2900, y_pos: 300, size: 0.8, isFound: false },
        { x_pos: 3100, y_pos: 405, size: 0.7, isFound: false },
   cloud_x = [
        { xPos: 200, scale: 1 },
        { xPos: 600,
        { xPos: 900,
        { xPos: 1300, scale: 1 },
        { xPos: 1600, scale: 1 },
        { xPos: 2000, scale: 1 },
         { xPos: 2500, scale: 1 },
        { xPos: 3000, scale: 1 },
         { xPos: 3500, scale: 1 },
            xPos: 4000, scale: 1 },
         { xPos: 4500, scale: 1 },
         { xPos: 5500, scale: 1 },
           xPos: 6000, scale: 1 },
         { xPos: 6500, scale: 1 },
            xPos: 8000, scale: 1 },
            xPos: 9000, scale: 1 },
            xPos: 9500, scale: 1 },
            xPos: 10000, scale: 1 },
            xPos: 10500, scale: 1 },
         { xPos: 11000, scale: 1 },
           xPos: 11500, scale: 1 },
         { xPos: 12000, scale: 1 },
            xPos: 12500, scale: 1 },
         { xPos: 13000, scale: 1 },
         { xPos: 13500, scale: 1 },
           xPos: 15000, scale: 1 },
         { xPos: 15500, scale: 1 },
         { xPos: 16000, scale: 1 },
         { xPos: 16500, scale: 1 },
           xPos: 17000, scale: 1 },
           xPos: 17500, scale: 1 },
         { xPos: 18000, scale: 1 },
        { xPos: 18500, scale: 1 },
        { xPos: 19000, scale: 1 },
         { xPos: 19500, scale: 1 },
cloud2 x = [
    { xPos: 1300, scale: 1 }, { xPos: 1600, scale: 1 }, { xPos: 2000, scale: 1 }, { xPos: 2500, scale: 1 }, { xPos: 3000, scale: 1 }, { xPos: 3500, scale: 1 },
    xPos: 4000, scale: 1 }, { xPos: 4500, scale: 1 }, { xPos: 5000, scale: 1 },
{ xPos: 5000, scale: 1 }, { xPos: 6000, scale: 1 }, { xPos: 5500, scale: 1 },
{ xPos: 7000, scale: 1 }, { xPos: 7500, scale: 1 }, { xPos: 8000, scale: 1 },
{ xPos: 8500, scale: 1 }, { xPos: 9000, scale: 1 }, { xPos: 9500, scale: 1 },
   { xPos: 8500, Scale: 1 }, { xPos: 9500, Scale: 1 }, { xPos: 1050, Scale: 1 }, { xPos: 1050, Scale: 1 }, { xPos: 10500, Scale: 1 }, { xPos: 11500, Scale: 1 }, { xPos: 12500, Scale: 1 }, { xPos: 13500, Scale: 1 }, { xPos: 13500, Scale: 1 }, { xPos: 13500, Scale: 1 }, { xPos: 14500, Scale: 1 }, { xPos: 15500, Scale: 1 }, { xPos: 16500, Scale: 1 }, { xPos: 17500, Scale: 1 }, { xPos: 17500, Scale: 1 }, { xPos: 18500, Scale: 1 }, { xPos: 17500, Scale: 1 }
    { xPos: 19500, scale: 1 }
```

```
coin_Posy: -5,
  game_score = 0;
  flagpole = { isReached: false, x_pos: 3500 };
  platforms = [];
  platforms.push(createPlatform(400, floorPos_y - 100, 200));
  platforms.push(createPlatform(1500, floorPos_y - 100, 200));
platforms.push(createPlatform(1600, floorPos_y - 100, 200));
  platforms.push(createPlatform(3000, floorPos_y - 100, 200));
platforms.push(createPlatform(3200, floorPos_y - 100, 200));
  enemies = [];
  enemies.push(new Enemy(100, floorPos_y - 10, 300));
  enemies.push(new Enemy(1000, floorPos_y - 10, 400));
  enemies.push(new Enemy(1600, floorPos_y - 10, 400));
enemies.push(new Enemy(1400, floorPos_y - 100, 1000));
var gameChar_x;
var gameChar_y;
var floorPos_y;
var collectable = 0.7;
var cameraPosX = 0;
var trees_x;
var moutain_x;
var caynon_x;
var Canyon;
var cloud_x;
var grass_x;
var grass3_x;
var grass2_x;
var stars;
var castleX;
var cloud2 x;
var bricks;
var castleWallX;
var isRight;
var isFalling = false;
var isPlummeting;
var isJump;
var stand;
var platforms;
var Inline;
var onPlatforms;
```

```
var gravity;
var walkbop;
var Lavabop;
var cloudbop;
var increment = 1;
var decrement = 0.3;
var gametime;
var game_score = 0;
var flagpole;
var respawnCooldown = 0;
var ground = true;
var lose = false;
var isFound = false;
var livesDecremented= false;
var respawnCooldown = false;
var controlflypast = false;
var manabarWidth = 200;
var red_Increase = 0;
var blue_Increase = 255;
var green_Increase = 0;
var bubblex;
var bubbley;
var moon;
var castle;
var doggo;
var grass2;
var grass3;
var enemies;
var newParagraph;
<!DOCTYPE html>
    <title>The Path to Freedom</title>
    <link rel="icon" href="../Resources/ManStand.png" type="image/x-icon" />
         document.addEventListener("DOMContentLoaded", function() {
    document.getElementById("playButton").addEventListener("click", function() {
                 var video = document.getElementById("myVideo");
                  video.style.display = "block";
                 video.play();
      body {
        background: black;
        background: green;
        text-align: center;
         padding: 1%;
         font-family: comic sans ms;
        text-decoration: none;
```

```
#playButton {
        background: blue;
        height: 60px;
    <!-- This is the button that will trigger the video to appear and play -->
<button id="playButton">Play final Cutscene</button>
      height="auto
      controls
      Your browser does not support the video tag.
     <a href="index.html">
        <h1>click here for the bonus level</h1>
<!DOCTYPE html>
    <script src="preload.js"></script>
    <script src="mechanics.js"></script>
    <script src="Misc.js"></script>
<script src="key.js"></script>
    <script src="Character.js"></script>
    <script src="startgame.js"></script>
    Use the Arrow Keys to navigate and spacebar to jump
    Stand on the platfrom to recharge your Mana, if your mana falls below 0, character will die
    Avoid the spiky Monsters
    This game may require a little patience, enjoy!
    <button onclick="redirectToPage()">Go back to main menu/button>
        function redirectToPage() {
    window.location.href = "../Menu.html";
```