



What we did:

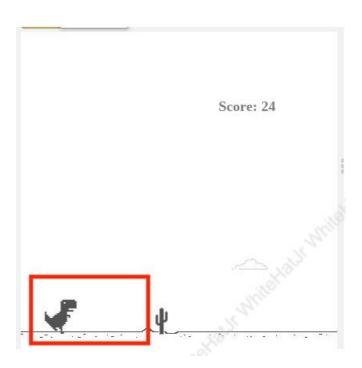
- Set the collider radius so that the game ends when T-Rex touches the obstacle.
- Diagnose and design a solution to the problem of disappearing obstacles and clouds.
- Add animation and reset function when the game ends.

How we did it:

Step 1: Set the collision radius of the T-Rex sprite.setCollider() function is used to set the collider shape and size — trex.setCollider("circle",0,0,40).

```
7 var trex = createSprite(200,380,20,50);
8 trex.setAnimation("trex");
9
10 trex.setCollider("circle",0,0,40);
11  //scale and position the trex
12 trex.scale = 0.5;
14 trex.x = 50;
```





Step 2: Print the game state in the console and see it change when the collision happens

```
38
      //set background to white
      background("white");
39
      //display score
40
      text("Score: "+ count, 250, 100);
41
      console.log(gameState);
42
43
44 -
      if(gameState === PLAY){
        //move the ground
45
        ground.velocityX = -6;
46
47
        //scoring
        count = Math.round(World.frameCount/4);
48
49
```

Step 3: Change the T-Rex animation after END state changes to a different image where its eyes pop out after the collision.





Step 4: Change the T-Rex animation when the gameState becomes END

```
70
71
72
     else if(gameState === END) {
73 +
       ground.velocitvX = 0;
74
     trex.setAnimation("trex_collided");
75
       upstaclesGroup.setvelocityxEach(⊍);
76
77
       CloudsGroup.setVelocityXEach(0);
     }
78
79
```

Step 5: Set the lifetime of the game object to -1 This is so that every frame will move away from 0 and never reach 0





Step 6: Write the code for setting the Lifetime of all the spawned objects in the groups to be -1 in the END condition of the game.

```
72
73 -
      else if(gameState === END) {
        ground.velocityX = 0;
74
75
        trex.setAnimation("trex_collided");
        ObstaclesGroup.setVelocitvXEach(0):
76
77
        CloudsGroup.setVelocityXEach(0);
78
        ObstaclesGroup.setLifetimeEach(-1);
79
        cloudsbroup.setLifetimeEach(-i);
80
81
     //console.log(trex.y);
82
```



Step 7: Resolve the bug where, when we press space just at the time of the collision, the T-Rex flies upwards without gravity

```
70
        }
      }
71
72
73 -
      else if(gameState === END) {
74
        around_velocitvX = 0:
75
        trex.velocityY = 0;
76
        crex.secanimacion("crex_collided");
77
        ObstaclesGroup.setVelocityXEach(0);
        CloudsGroup.setVelocityXEach(0);
78
79
        ObstaclesGroup.setLifetimeEach(-1);
80
        CloudsGroup.setLifetimeEach(-1);
81
      }
```

Step 8: Set Game Over text and restart icon displayed on the screen when the game ends

```
73 -
      else if(gameState === END) {
74
        ground.velocityX = 0;
75
        trex.velocityY = 0;
76
        trex.setAnimation("trex_collided");
77
        ObstaclesGroup.setVelocityXEach(0);
78
        CloudsGroup.setVelocityXEach(0);
79
        ObstaclesGroup.setLifetimeEach(-1);
80
        CloudsGroup.setLifetimeEach(-1);
81
        var gameOver = createSprite(200,300);
82
83
        var restart = createSprite(200,340);
84
85
        gameOver.setAnimation("gameOver");
86
        gameOver.scale = 0.5;
        restart.setAnimation("restart");
87
88
        restart.scale = 0.5;
89
```

What's next?: Add sounds to the game