## Platformer Code

Q. I want a platform. But I don't want one like the one on CSD Unit 3, Lesson 26 that goes down, I want one with a sideways scroll. How do I do that?

A. Don't. Gravity and platforms is a pain.

var speed = -1;

However, if you ignore me and do it anyway, be prepared to accept bugs in your code.

If the gravity and the scroll aren't the same way, it is a pain... so it won't be perfect.

The video that explains all of this is here: <a href="https://youtu.be/c9HfPloog9k">https://youtu.be/c9HfPloog9k</a>

```
//Space Background - 2 frames to scroll
3 var frame1 = createSprite(200, 200) →;
   frame1.setAnimation(▼"sci fi 1");
4
    frame1.velocityX = speed;
6
7
   var frame2 = createSprite(600, 200) →;
8
   frame2.setAnimation(▼"sci_fi_1");
9
    frame2.velocityX = speed;
10
11
   //Main character
12
   var jumper = createSprite(100, 300) →;
13
   jumper.setAnimation(▼ "alienGreen_walk_1");
14
15
    //Platform
16
    var platform = createSprite(400, 210) →
17
    platform.setAnimation(▼ "ground wood 1");
18
     platform.velocityX =speed;
19
    var platformTop = createSprite(400,205) →;
20
21
    platformTop.setAnimation(▼"edge");
22
     platformTop.velocityX = speed;
23
24
    var platformBottom = createSprite(400,220) →;
25
    platformBottom.setAnimation(▼"edge copy 1");
26
     platformBottom.velocityX =speed;
27
28
    var onPlatform="no";
```

```
//Enemy
30
   var enemy = createSprite(400, 300) →;
   enemy.setAnimation(▼"sun 1");
33
    enemy.scale = 0.25;
34
    enemy.velocityX = speed;
35
   //Score variable
36
    var score = 0;
37
    function draw() {→
39
40
      drawSprites();
41
42
      //Handle background scrolling movement
43
      //Alternate what is on the screen
44
      if ( frame1.x <-200 ) {
45
         frame1.x =600;
46
           frame2.x <-200)
47
48
         frame2.x =600;
49
50
JU
51
      //hit the ground
      if ( jumper.y > 300)
52
        jumper.velocityY =0;
53
54
        jumper.setAnimation(▼"alienGreen walk 1");
55
56
57
      //jump
58
      if (keyWentDown(▼"space"))
59
        jumper.velocityY = jumper.velocityY
                                                -3;
60
        jumper.setAnimation(▼"alienGreen jump 1");
61
62
63
      //gravity pulls down
64
      if ( jumper.y <125 )
65
        jumper.velocityY = 3;
66
        jumper.setAnimation(▼"alienGreen duck 1");
67
```

```
69
       //Platform --
 70
      //Slide along on top of platform
 71
      if (jumper.isTouching(platformTop)) {
 72
         jumper.velocityY =0;
 73
        onPlatform="yes";
 74
 75
 76
      //Platform passes under us, then go down
 77
           | jumper.isTouching(platformTop)| && jumper.y < 300 | && onPlatform=="yes")
 78
         jumper.velocityY = 3;
        jumper.setAnimation(▼"alienGreen duck 1");
 79
 80
        onPlatform="no";
 81
 83
       //Bounce off platform bottom
       if ( jumper.isTouching(platformBottom) )
 84
          jumper.velocityY = 3;
 85
 86
          jumper.setAnimation(▼"alienGreen duck 1");
 87
 89
        //enemy hits alien
 90
        //score: decreases, respawn enemy farther over
 91
        if(jumper.isTouching(enemy)
 92
           enemy.x = randomNumber(510, 530);
 93
           score--;
 94
                           +11
 95
 96
        //enemy gets to edge
 97
        //score: increase, respawn enemy
        if ( enemy.x < -50)
 98
 99
           enemy.x = randomNumber(410, 430);
100
           score++;
101
```

```
//respawn platform
103
      if( platform.x <-50) {
104
        platform.x =400;
105
106
         platformTop.x =400;
         platformBottom.x =400;
107
108
109
       //display score
111
       textSize(20);
112
       text( "Score: "+score , 10, 20); →
113
114
```