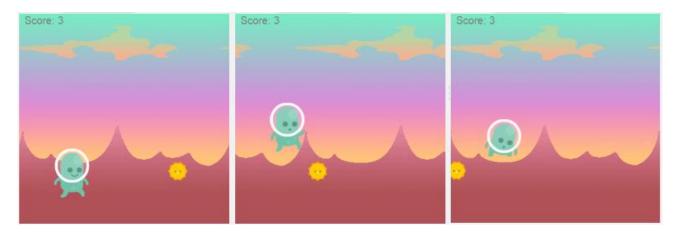
Jumper

This game has a scrolling background and an alien who jumps over the burning hot sun-thing.

- If the alien jumps the sun and maintains its distance, the alien gains a point.
- If the sun gets too close, the alien loses the point.



You will need these 5 animations:



Move to the code frame.

Start the background scrolling

```
//Space Background - 2 frames to scroll
var frame1 = createSprite(200, 200) +;

frame1.setAnimation(▼"sci_fi_1");

frame1.velocityX = -4;

var frame2 = createSprite(600, 200) +;

frame2.setAnimation(▼"sci_fi_1");

frame2.velocityX = -4;

grame2.velocityX = -4;
```

Add the alien, and its sun-enemy.

```
10
    //Main character
11
    var jumper = createSprite(100, 300) →;
12
    jumper.setAnimation(▼"alienGreen walk 1");
13
14
    //Enemy
15
    var enemy = createSprite (410, 300) →;
16
    enemy.setAnimation(▼"sun 1");
17
    enemy.scale = 0.25;
18
    enemy.velocityX
19
20
    //Score variable
    var score = 0;
21
```

Make your draw loop. Handle the scrolling movement.

```
function draw() {→
23
24
      drawSprites();
25
26
      //Handle background scrolling movement
27
      //Alternate what is on the screen
            frame1.x <-200)
28
29
         frame1.x = 600;
30
31
            frame2.x <-200
32
         frame2.x = 600;
33
```

RUN YOUR CODE.

- Is the background scrolling?
- Is there an alien? Does the sun move across the screen once?
- Remember there are no collisions yet and the sun is not yet respawning.

A jump has three pieces:

- 1. Hit the ground (code it first as it is the default)
- 2. Jump up
- 3. Fall down

```
34
35
      //hit the ground
36
            jumper.y > 300
37
         jumper.velocityY = 0;
38
         jumper.setAnimation(▼"alienGreen walk 1");
39
40
40
41
      //jump
42
           keyWentDown(▼"space"))
43
                                                   -3;
         jumper.velocityY
                               jumper.velocityY
44
         jumper.setAnimation(▼"alienGreen jump 1");
45
40
47
       //gravity pulls down
48
            jumper.y <180
49
          jumper.velocityY
50
         jumper.setAnimation(▼"alienGreen duck 1");
51
52
```

Now, RUN the code!

- Can your alien jump when you hit the space bar?
- Are its pictures changing correctly?
- Remember that the sun doesn't yet respawn!

Then we have to handle the score and the sun respawn.

- 1. Alien hits the sun. score goes down. Sun respawns.
- 2. The sun hits the edge. Score goes up. Sun respawns.
- 3. Print the score out.

```
53
      //enemy hits alien
54
      //score: decreases, respawn enemy farther over
55
      if( jumper.isTouching(enemy)
56
         enemy.x = randomNumber (510, 530);
57
         score--;
                        +11
58
59
60
       //enemy gets to edge
61
       //score: increase, respawn enemy
            enemy.x <-50)
62
       if
63
          enemy.x = randomNumber(410,
                                       430)
64
         score++;
65
66
66
       //display score
67
68
       textSize(20);
       text( "Score: "+score , 10, 20); →
69
70
```

Now everything should be working!

Run your code to check!

- The sun respawns when HIT or when it reaches the edge.
- The score works correctly.