Check collision



When one asset touches the other, the second one jumps forward.

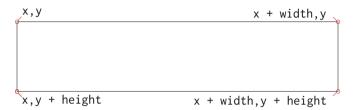
The isColliding() function compares the corners of both shapes. The two shapes overlap if all the conditions are met. In this case the function will return true. If any of the comparisons fails the function returns false.

The update(dt) function:

- if isColliding() is true, moves the box 100 pixels horizontally.
- if the right arrow key is pressed, the star moves to the right at the given speed.

```
star = \{x = 10, v = 200, speed = 150, 
         char = '*', width = 10, height = 5}
box = \{x = 100, v = 200, v =
         char = '\Gamma ]'. width = 10. height = 5}
function isColliding(a, b)
          return
                    a.x < b.x + b.width and
                    b.x < a.x + a.width and
                    a.v < b.v + b.height and
                    b.v < a.v + a.height
end
function love.load(arg)
          love.graphics.setFont(love.graphics.newFont(36))
end
function love.update(dt)
          if isColliding(star, box) then
                   box.x = box.x + 100
         end
          if love.keyboard.isDown('right', 'd') then
                    star.x = star.x + (star.speed * dt)
         end
end
```

```
function love.draw()
  love.graphics.print(star.char, star.x, star.y)
  love.graphics.print(box.char, box.x, box.y)
end
```



When all equations are met – shown in green – there is a collision. If even a single one is red, the shapes are not colliding.

