

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.

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The `update(dt)` function:

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- if the right arrow key is pressed, the star moves to the right at the given speed.

```

star = {x = 10, y = 200, speed = 150,
char = '*', width = 10, height = 5}
box = {x = 100, y = 200,
char = '[ ]', width = 10, height = 5}

```

```

function isColliding(a, b)
return
a.x < b.x + b.width and
b.x < a.x + a.width and
a.y < b.y + b.height and
b.y < a.y + 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

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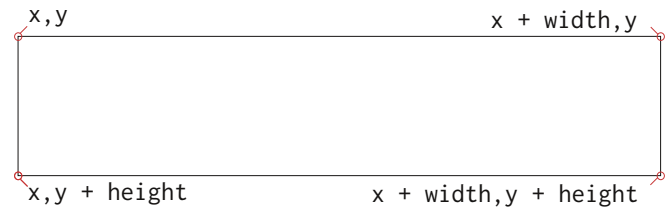
if love.keyboard.isDown('right', 'd') then
star.x = star.x + (star.speed * dt)
end
end

```

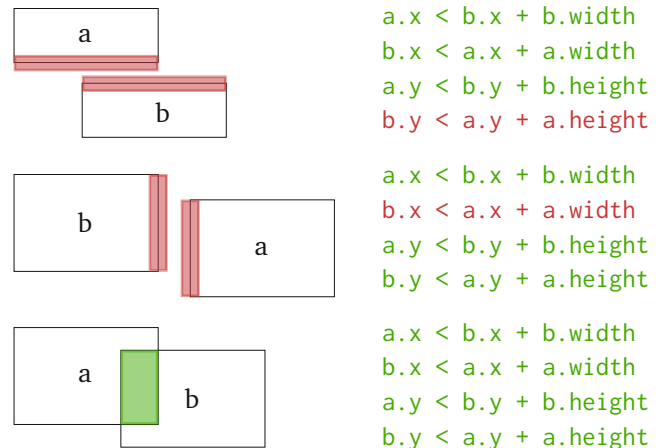
```

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

```



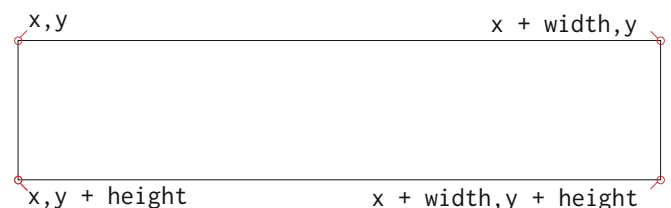
When all equations are met – shown in green – there is a collision. If even a single one is red, the shapes are not colliding.



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