



#### What is our GOAL for this MODULE?

The goal for this module is to remove a pig object when hit and add a vanishing effect to it.

## What did we ACHIEVE in the class TODAY?

- Removed the pig object from the world when the pig is hit
- Added vanishing effect to the pig
- Used keyboard events to attach the bird back to the sling

# Which CONCEPTS/ CODING BLOCKS did we cover today?

- Removing the object from the world.
- Using keyboard events to attach the bird back to the sling



### How did we DO the activities?

When a bird has hit the pig, some of its properties change - like its speed, momentum etc. When dealing with the pig objects, to preserve readability, we wrote pig.js thus, display() function was called in every frame since it was called inside draw().

```
AngryBirdsStage5 | Js Pig.js | Pig.js |
```

The code to remove the object from the world:

```
class Pig extends Baseclass {
constructor(x, y){
super(x,y,50.50);
this.image = loadImage("sprites/enemy.png");
this.visiblity = 255;
}

display(){
console.log(this.body.speed);
if(this.body.speed < 3){
super.display();
}
else{
| World.remove(world, this.body);
}

World.remove(world, this.body);
}
</pre>
```

© 2019 The content of this email is confidential and intended for the recipient specified in message only. It is strictly forbidden to share any part of this message with any third party without a written consent of the sender. If you received this message by mistake, please reply to this message and follow with its deletion, so that we can ensure such a mistake does not occur in the future.



In order to make the pig vanish gradually (and not abruptly), we used tint():

```
class Pig extends BaseClass {
 constructor(x, www.
    super(x,y,50, any
    this.image = loadImage("sprites/enemy.png");
    this. Visiblity - 255:
display(){
  console.log(this.body.speed);
   if(this.body.speed < 3){
    super.display();
  else{
    World.remove(world, this.body);
    tint(255,this.Visiblity);
image(this.image, this.body.position.x, this.body.position.y, 50, 50);
                WhiteHat Jr * Whiteh
```



We reduced the visibility by 5 in every frame:

```
class Pig extends BaseClass {
 constructor(x, y){
   super(x,y,50,50);
   this.image = loadImage("sprites/enemy.png");
   this. Visiblity - 255:
display(){
  console.log(this.body.speed);
   if(this.body.speed < 3){
   super.display();
    World.remove(world, this.body);
    push();
    tint(255,this.Visiblity);
image(this.image, this.body.position.x, this.body.position.y, 50, 50);
pop():
    this. Visiblity - this. Visiblity - 5:
        WhiteHat Jr x Wh
```



We used ASCII value of 'space' key to instruct the computer to attach the bird back to slingshot when the key is pressed:



```
JS Bird.js
                   JS Slingshot.js x JS sketch.js
                                                           JS Pig.js
AngryBirdsStage5 👂 🥦 Slingshot.js 🕽 🍖 SlingShot
                        pointB: pointB,

    alive

                        stiffness: 0.04,
                        length: 10
                   this.sling1 = loadImage('sprites/sling1.png'):
                   this.sling2 = loadImage('sprites/sling2.png');
                   this.sling3 = loadImage('sprites/sling3.png');
                   this.pointB - pointB
                   this.sling = Constraint.create(options);
                   World.add(world, this.sling);
              attach(body){
                   this.sling.bodyA - body;
                       ting1.200.20);
this.sling2,170,20);
this.sling.bodyA){
var pointA - this.sling.bodyA.position;
var pointB = this.pointB;
bush();
troke(48,22,8);
(pointA.x < 220
stroke);</pre>
              fly(){
                   this sling bodyA = null;
              display(){
                   image(this.sling1.200.20):
                   image(this.sling2,170,20);
                   if(this.sling.bodyA){
                             strokeWeight(7);
                             line(pointA.x - 20, pointA.y, pointB.x -10, pointB.y);
line(pointA.x - 20, pointA.y, pointB.x + 30, pointB.y - 3);
                              image(this.sling3.pointA.x -30, pointA.y -10.15.30);
```

#### What's NEXT?

In the next class, you will be learning about arrays and bird trajectory.

## **EXTEND YOUR KNOWLEDGE:**

You can learn more about the keyboard events from following link <a href="https://www.geeksforgeeks.org/p5-js-keyboard-keyisdown/#:~:text=js%20%7C%20Keyboard%20%7C%20keyIsDown(),-Last%20Updated%3A%2016&text=The%20keyIsDown()%20function%20in,as%20moving%20a%20sprite%20diagonally.</a>