Getting X

In order to "hit" the duck we need to know its coordinates.



X Coordinate of Duck



How To Shoot A Duck



The y coordinate of the duck will remain constant(0) while the x value will change.

The x value of the bullet will remain constant (381) but the y coordinate value will change.

The key to a perfect shot is to have the y coordinate of picBullet be 0 at the exact moment that the x coordinate of picDuck is 381.

The odds of this happening are...... not good. Yeah Ducky is safe!

Not So Fast My Web-Footed Friend



Coding A Hit

Before a hit duck could only occur If the duck was at x = 381 and the bullet was at y = 0 at the same time.

We can now say that if the duck is between 381 and 381 + 68 = 449 while the bullet is between 81 and 0, we have a hit.

Lets modify our previous program and add a label to track the y coordinate of picBullet.

Dim duckXLocation As Integer Dim bulletYLocation As Integer

```
Sub MoveRight()
   picDuck.Location = New Point(x, y)
    x = x + 5
    duckXLocation = picDuck.Location.X
    bulletYLocation = picBullet.Location.Y
    lblPosition.Text = duckXLocation
    lblPositionBullet.Text = bulletYLocation
End Sub
Sub MoveLeft()
   picDuck.Location = New Point(x, y)
   x = x - 5
    duckXLocation = picDuck.Location.X
    bulletYLocation = picBullet.Location.Y
    lblPosition.Text = duckXLocation
    lblPositionBullet.Text = bulletYLocation
End Sub
```

A Hit!

```
Sub MoveRight()
    picDuck.Location = New Point(x, y)
    x = x + 5
    duckXLocation = picDuck.Location.X
    bulletYLocation = picBullet.Location.Y
    lblPosition.Text = duckXLocation
    lblPositionBullet.Text = bulletYLocation
    If (duckXLocation >= 381) And (duckXLocation <= 449) And (bulletYLocation <= 68) And (bulletYLocation >= 0) Then
       Timer1.Stop()
       MsgBox("Hit")
    End If
End Sub
Sub MoveLeft()
    picDuck.Location = New Point(x, y)
    x = x - 5
    duckXLocation = picDuck.Location.X
    bulletYLocation = picBullet.Location.Y
    lblPosition.Text = duckXLocation
    lblPositionBullet.Text = bulletYLocation
    If (duckXLocation >= 381) And (duckXLocation <= 449) And (bulletYLocation <= 68) And (bulletYLocation >= 0) Then
        Timer2.Stop()
       MsgBox("Hit")
    End If
End Sub
```

Raw Carnage...The Movie

