

C3: Mole Mash Game

Media Required:

You need mole.png.

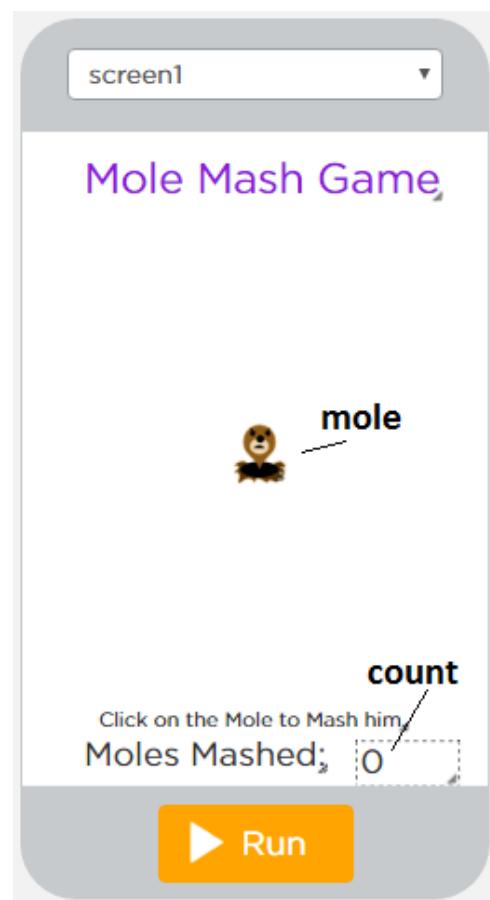
Design Mode:

Create the adjacent app.

The two widgets that are important, the mole (an image) and the count (a label) are noted. The ids I used were mole and count.

Everything else is a label.

There are no buttons.



Code Editor:

Mole Jump

Create two variables to track the mole's position on the screen.

```
var x = getXPosition("mole");
var y = getYPosition("mole");
```

Then, create a time event to move the mole to a new random location on the screen. You will pick a random number for x and a random number for y.

```
setInterval(function() {
    x = randomNumber(10, 300);
    y = randomNumber(10, 400);
    setPosition("mole", x, y, 36, 42);
}, 900);
```

Because the screen is roughly 300 x 400 pixels, the random numbers for each dimension are slightly different.

Run the code. See if the mole hops around the screen randomly.

Score

Now we need to code the “mashing” part. (We’ve finished the “mole” part).

Start by adding a variable to track our score. Add it underneath the x and y variables.

```
var caught = 0;
```

Then, add an onEvent. This time, we aren’t going to have a button that is clicked, we are going to have an image be clicked.

```
onEvent("mole", "click", function(event) {
    caught = caught + 1;
    setText("count", caught);
});
```

When the mole is clicked, you increase the score by 1 and show it out on the screen.

Run the code. See if the score increases when you click on the mole.

Move the Mole

There is one problem: when you click on the mole, he doesn’t jump to a new locations, so the user can cheat and click a lot of times.

Edit the onEvent block:

```
onEvent("mole", "click", function(event) {
    caught = caught + 1;
    setText("count", caught);
    x = randomNumber(10, 300);
    y = randomNumber(10, 400);
    setPosition("mole", x, y, 36, 42);
});
```

Add the code from the setInterval block that moves the mole around. Now, when the mole is clicked, he will move right away.

A good way to add this code it to pop over to the text editor and cut and paste the lines of code.

```
</> Show Text
x = randomNumber(10, 300);
y = randomNumber(10, 400);
setPosition("mole", x, y, 36, 42);
```

Test it. Have Ms. Gorski check it.