Interactive Zoog

Objective

Practice using setup() and draw() with mouseX, mouseY, pmouseX, pmouseY.

Instructions

1. Copy and paste the code below into a sketch named InteractiveZoog

```
size(500, 500);
background(255);
ellipseMode(CENTER);
rectMode(CENTER);
//Body
stroke(0);
fill(150);
rect(240, 145, 20, 100);
//Head
fill(255);
ellipse(240, 115, 60, 60);
//Eyes
fill(0);
ellipse(221, 115, 16, 32);
ellipse(259, 115, 16, 32);
//Legs
stroke(0);
line(230, 195, 220, 205);
line(250, 195, 260, 205);
```

- 2. Add your name as a comment in the top of the lab. (This goes without saying from here.)
- 3. Modify the program to use setup() and draw(). What should happen just once? What should happen over and over? Rearrange the code accordingly.
- 4. Modify the program to draw Zoog wherever the mouse is.

 Hint: Notice the Body is drawn at position (240, 145) and the Head is drawn at (240, 115). The difference is in the y coordinate. The body would be (mouseX, mouseY) but the head would be (mouseX, mouseY 30). Using the Body coordinates as your reference, apply the changes to all parts of the drawing.
- 5. Modify the program so Zoog's legs are longer and move around while you move Zoog around. line(pmouseX, pmouseY, mouseY, mouseY); //draws a line from the previous mouse position to current



