

Dial_Arm_Example

//Dial Arm Example

//contains map(input,minInput,maxInput,minOutput,maxOutput) command

//Mr. H.

```
int degrees = 0, percent = 0, r = 200;
```

```
void setup(){  
  size(600,600);  
}
```

```
void draw(){  
  background(255);
```

```
  //creates a circular dial face, note diameter = 2*r  
  stroke(0);  
  noFill();  
  ellipse(300,300,2*r+20,2*r+20);
```

```
  //places angle and percent in top left corner  
  fill(0);  
  textSize(16);  
  text("Angle = "+degrees+"°",10,20);  
  percent = int(map(mouseX,0,width,0,100));  
  text("Percent = "+percent+"%",10,40);
```

```
  //creates a blue dial arm from the center point (300,300)  
  stroke(0,0,255);  
  line(300,300,300+r*cos(radians(degrees-90)),300+r*sin(radians(degrees-90)));
```

```
  //sweeps the arm through angles of -120° to 120°  
  degrees = int(map(mouseX,0,width,-120,120));
```

```
  //creates a red "pin" at center of dial  
  fill(255,0,0);  
  stroke(0);  
  ellipse(300,300,15,15);  
}
```