

Rotating_Arm_Example

```
//Rotating Arm
```

```
//Mr. H.
```

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

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

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

```
  //places angle in top left corner
```

```
  fill(0);
```

```
  textSize(16);
```

```
  text("Angle = "+degrees+"°",10,20);
```

```
  //creates a blue rotating arm
```

```
  stroke(0,0,255);
```

```
  line(300,300,300+r*cos(radians(degrees-90)),300+r*sin(radians(degrees-90)));
```

```
  //incrementing degrees causes the arm to sweep clockwise
```

```
  degrees = degrees + 1;
```

```
  //ensures the angle is between 0° and 360°
```

```
  if (degrees >= 360){
```

```
    degrees = degrees - 360;
```

```
  }
```

```
}
```