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## Class Circle

[java.lang.Object](#)└ **Circle**

```
public class Circle
  extends Object
```

A circle in 2 dimensions

**Author:**

anderson, modified by Matt Boutell

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Constructor Summary
<p><a href="#">Circle</a>(<a href="#">Point</a> p, double r) Construct a Circle from a point and a radius.</p>

Method Summary
<p><a href="#">Rectangle</a> <a href="#">boundingBox</a>() Returns the Rectangle that bounds this object</p>
<p>boolean <a href="#">equals</a>(<a href="#">Object</a> obj) Is that other Circle equivalent to this one?</p>
<p>double <a href="#">getArea</a>() Returns the area of this Circle</p>
<p><a href="#">Point</a> <a href="#">getCenter</a>() Returns the center Point of this Circle</p>
<p>double <a href="#">getRadius</a>() Returns the radius of this Circle</p>
<p>boolean <a href="#">intersects</a>(<a href="#">Circle</a> c) Does this Circle intersect the other Circle?</p>
<p>boolean <a href="#">intersects</a>(<a href="#">Rectangle</a> r) Does this Circle intersect a Rectangle?</p>
<p>boolean <a href="#">isInside</a>(<a href="#">Point</a> p) Is the given Point inside this Circle?</p>

<a href="#">String</a>	<b>toString()</b> Returns a String representation of this Circle.
void	<b>translate</b> (double dx, double dy) Changes the location of this Rectangle by the specified amount in each direction.

### Methods inherited from class [java.lang.Object](#)

[getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [wait](#), [wait](#), [wait](#)

## Constructor Detail

### Circle

```
public Circle(Point p,  
             double r)
```

Construct a Circle from a point and a radius.

#### Parameters:

p -  
r -

## Method Detail

### toString

```
public String toString()
```

Returns a String representation of this Circle.

#### Overrides:

[toString](#) in class [Object](#)

#### Returns:

a String representation of this Circle.

---

### equals

```
public boolean equals(Object obj)
```

Is that other Circle equivalent to this one?

#### Overrides:

[equals](#) in class [Object](#)

## getRadius

```
public double getRadius()
```

Returns the radius of this Circle

**Returns:**  
the radius of this Circle

---

## getArea

```
public double getArea()
```

Returns the area of this Circle

**Returns:**  
the area of this Circle

---

## getCenter

```
public Point getCenter()
```

Returns the center Point of this Circle

**Returns:**  
the center Point of this Circle

---

## intersects

```
public boolean intersects(Rectangle r)
```

Does this Circle intersect a Rectangle?

**Parameters:**  
r - the rectangle

**Returns:**  
true if they intersect.

---

## intersects

```
public boolean intersects(Circle c)
```

Does this Circle intersect the other Circle?

**Parameters:**

c - the other circle

**Returns:**

true if they intersect.

---

## translate

```
public void translate(double dx,  
                     double dy)
```

Changes the location of this Rectangle by the specified amount in each direction.

**Parameters:**

dx - amount to move this Rectangle by in the x direction

dy - amount to move this Rectangle by in the y direction

---

## isInside

```
public boolean isInside(Point p)
```

Is the given Point inside this Circle?

**Parameters:**

p - the Point

**Returns:**

true if the Point is inside this Circle, false otherwise.

---

## boundingBox

```
public Rectangle boundingBox()
```

Returns the Rectangle that bounds this object

**Returns:**

the Rectangle that bounds this object

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