

Myro

Class MyroCircle

java.lang.Object

Myro.MyroShape

Myro.MyroCircle

```
public class MyroCircle extends Myro.MyroShape
```

Class representing a circle for display on a MyroCanvas. The circle is initially an outline shape, but can be changed to a filled shape by invoking the makeFilled method.

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Constructor Summary

[MyroCircle](#)(Myro.MyroCanvas whichCanvas, int centerX, int centerY, int radius)
Construct a circle.

Method Summary

int	getCenterX () Returns the x-coordinate of the center of this circle.
int	getCenterY () Returns the y-coordinate of the center of this circle.
int	getRadius () Return the current radius of this circle.
void	move (int deltaX, int deltaY) Move this circle by (deltaX, deltaY)
void	setCenter (int newX, int newY) Set a new center for this circle
void	setRadius (int newRadius) Set a new radius for this circle

Methods inherited from class Myro.MyroShape

getBottom, getFillColor, getHeight, getLeft, getOutlineColor, getOutlineWidth, getRight, getTop, getWidth, invisible, isFilled, isVisible, makeFilled, makeOutline, setFillColor, setOutlineColor, setOutlineWidth, visible

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

MyroCircle

```
public MyroCircle(Myro.MyroCanvas whichCanvas,  
                 int centerX,  
                 int centerY,  
                 int radius)
```

Construct a circle. Initially the circle will be an outline shape, but this can be changed by invoking `makeFilled` method. The initial outline color will be black and the fill color will be white. The circle will not be visible initially.

Parameters:

`whichCanvas` - Specifies which MyroCanvas this circle will be drawn on

`centerX` - Initial x coordinate of the center of this circle

`centerY` - Initial y coordinate of the center of this circle

`radius` - Initial radius of this circle.

Precondition:

`radius > 0`

Method Detail

getCenterX

```
public int getCenterX()
```

Returns the x-coordinate of the center of this circle.

Specified by:

`getCenterX` in class `Myro.MyroShape`

getCenterY

```
public int getCenterY()
```

Returns the y-coordinate of the center of this circle.

Specified by:

`getCenterY` in class `Myro.MyroShape`

getRadius

```
public int getRadius()
```

Return the current radius of this circle.

Returns:

The current radius of this circle

move

```
public void move(int deltaX,  
                int deltaY)
```

Move this circle by `(deltaX, deltaY)`

Specified by:

`move` in class `Myro.MyroShape`

Parameters:

`deltaX` - The amount to move this circle in the x direction

deltaY - The amount to move this circle in the y direction

setCenter

```
public void setCenter(int newX,  
                      int newY)
```

Set a new center for this circle

Parameters:

newX - The new x coordinate of this circle

newY - The new y coordinate of this circle

setRadius

```
public void setRadius(int newRadius)
```

Set a new radius for this circle

Parameters:

newRadius - The new radius for this circle

Precondition:

newRadius > 0