

Java AWT Canvas

Java AWT Canvas :

- The Canvas class controls and represents a blank rectangular area where the application can draw or trap input events from the user.
- It inherits the Component class.

AWT Canvas class Declaration

public class Canvas extends Component implements Accessible

AWT Canvas Class Constructors

Canvas()

- It constructs a new Canvas.

Canvas(GraphicsConfiguration config)

- It constructs a new Canvas with the given Graphics Configuration object.

AWT Canvas Class Methods :

void addNotify()

- It creates the canvas's peer.

void createBufferStrategy (int numBuffers)

- It creates a new multi buffering strategies on the particular component.

void createBufferStrategy (int numBuffers, BufferCapabilities caps)

- It creates a new multi buffering strategies on the particular component with the given buffer capabilities.

AWT Canvas Class Methods :

AccessibleContext getAccessibleContext()

- It gets the accessible context related to the Canvas.

BufferStrategy getBufferStrategy()

- It returns the buffer strategy used by the particular component.

void paint(Graphics g)

- It paints the canvas with given Graphics object.

void pdate(Graphics g)

- It updates the canvas with given Graphics object.

AWT Canvas Class : Example

```
import java.awt.*;
public class CanvasExample
{
    public CanvasExample()
    {
        // creating a frame
        Frame f = new Frame("Canvas Example");
        // adding canvas to frame
        f.add(new MyCanvas());
        f.setLayout(null);
        f.setSize(400, 400);
        f.setVisible(true);
    }
}
```

AWT Canvas Class : Example

```
public static void main(String args[])
{
    new CanvasExample();
}
}

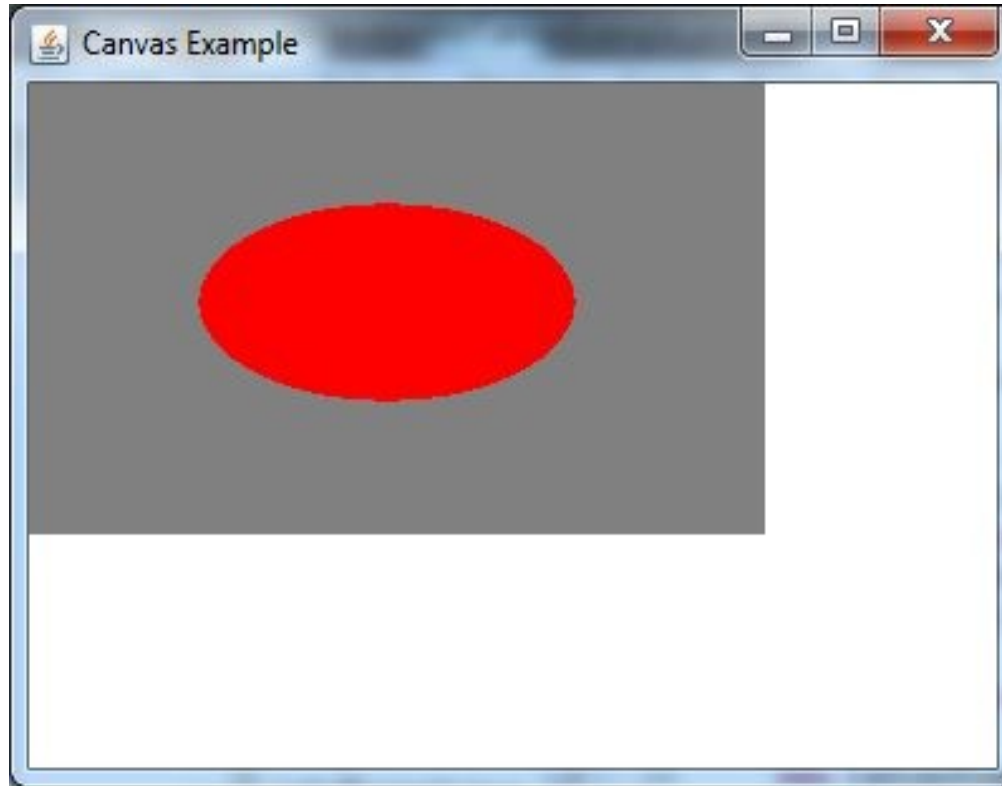
class MyCanvas extends Canvas
{
    public MyCanvas()
    {
        setBackground (Color.GRAY);
        setSize(300, 200);
    }
}
```

AWT Canvas Class : Example

// paint() method to draw inside the canvas

```
public void paint(Graphics g)
{
    // adding specifications
    g.setColor(Color.red);
    g.fillOval(75, 75, 150, 75);
}
}
```


AWT Canvas Class : Output





Thank you!

shutterstock.com · 567687052