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Mutable Image

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```
image = Image.createImage(100, 20);
Graphics graphics = image.getGraphics();
Font font = Font.getFont(Font.FACE_SYSTEM, Font.STYLE_PLAIN, Font.SIZE_MEDIUM);
graphics.setFont(font);
graphics.setColor(255, 0, 0);
graphics.fillRect(0,0, image.getWidth()-1, image.getHeight()-1, 20, 20);
graphics.setColor(0, 0, 255);
graphics.drawString(message,(image.getWidth()/2) -
(font.stringWidth(message)/2), 0, Graphics.TOP | Graphics.LEFT);
```

And to paint the image we are using paint() function.

The Application is as follows:

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This is the Mutable image example which shows how to create the mutable image using canvas class.

## Mutable Image

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This is the Mutable image example which shows how to create the mutable image using canvas class. In this example the **ImageCanvas1** class extends the **Canvas** class to create the image as below:

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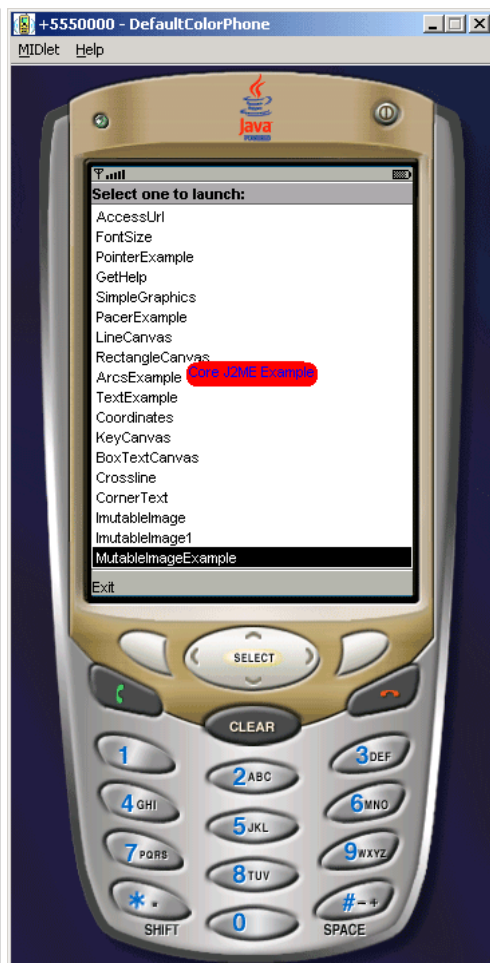
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## Source Code of MutableImageExample.java

```
import javax.microedition.midlet.*;
import javax.microedition.lcdui.*;

public class MutableImageExample extends MIDlet{
    private Display display;
    private ImageCanvas1 canvas;

    public MutableImageExample() {
        display = Display.getDisplay(this);
        canvas = new ImageCanvas1(this);
    }

    protected void startApp() {
        display.setCurrent(canvas);
    }

    protected void pauseApp() {}

    protected void destroyApp(boolean unconditional) {
        notifyDestroyed();
    }

    public void exitMIDlet() {
        destroyApp(true);
    }
}
```



```

class ImageCanvas1 extends Canvas implements CommandListener{
    private Command exit;
    private MutableImageExample midlet;
    private Image image;
    private String message = "Core J2ME Example";

    public ImageCanvas1(MutableImageExample midlet){
        this.midlet = midlet;
        exit = new Command("Exit", Command.EXIT, 1);
        addCommand(exit);
        setCommandListener(this);
        try{
            image = Image.createImage(100, 20);
            Graphics graphics = image.getGraphics();
            Font font = Font.getFont(Font.FACE_SYSTEM, Font.STYLE_PLAIN,
                Font.SIZE_MEDIUM);
            graphics.setFont(font);
            graphics.setColor(255, 0, 0);
            graphics.fillRoundRect(0,0, image.getWidth()-1,
                image.getHeight()-1, 20, 20);
            graphics.setColor(0, 0, 255);
            graphics.drawString(message, (image.getWidth()/2) -
                (font.stringWidth(message)/2), 0, Graphics.TOP | Graphics.LEFT);
        } catch (Exception e){
            System.err.println(e);
        }
    }

    protected void paint(Graphics g){
        if(image != null){
            g.drawImage(image, getWidth()/2, getHeight()/2, Graphics.VCENTER
                | Graphics.HCENTER);
        }
    }

    public void commandAction(Command c, Displayable d){
        String label = c.getLabel();
        if(label.equals("Exit")){
            midlet.exitMIDlet();
        }
    }
}

```

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