

객체지향 프로그래밍

10 주차 실습 과제

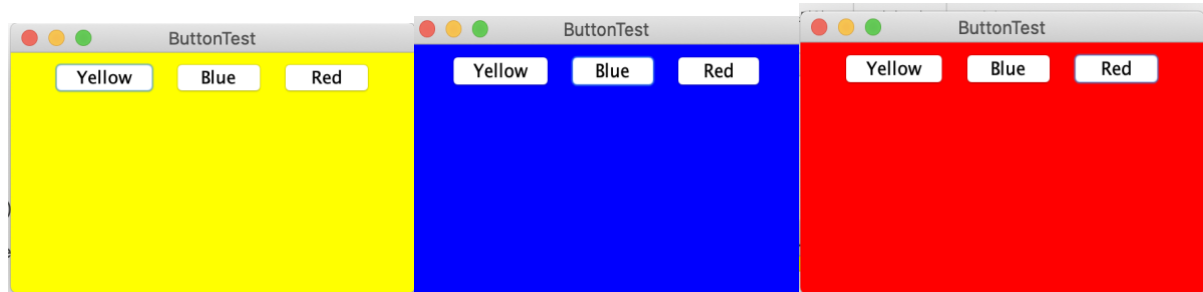
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학과 : 미디어학과

학년 : 2 학년

- 1-가
-실행화면



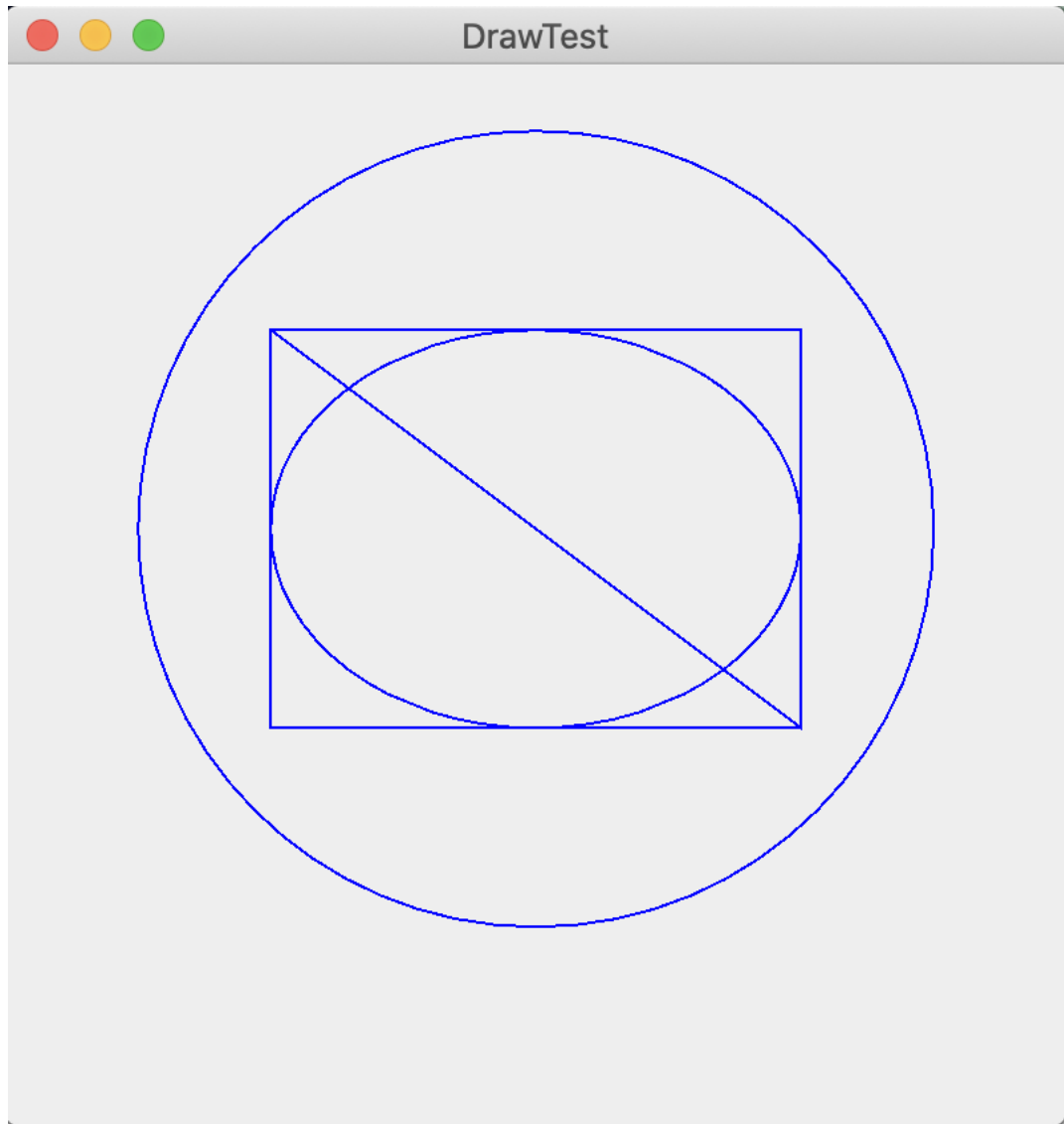
-코드

```
public void makeButton(JButton button, String name, Color backgroundColor) {  
    button.addActionListener(event->  
        buttonPanel.setBackground(backgroundColor));  
}
```

```
yellowAction.makeButton(yellowButton,"yellow",Color.YELLOW);  
blueAction.makeButton(blueButton,"blue",Color.BLUE);  
redAction.makeButton(redButton,"red",Color.RED);
```

- 2-가

-실행 화면

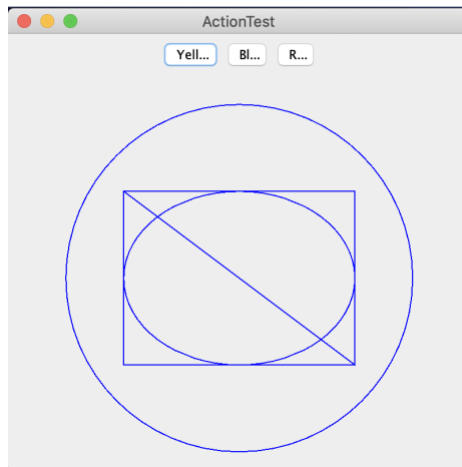


-추가한 코드

```
g2.setColor(Color.BLUE);
```

- 2-나

-실행화면



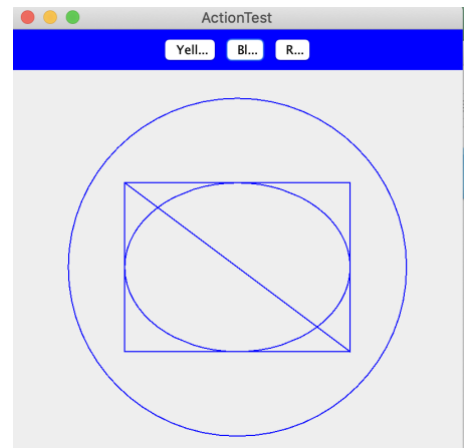
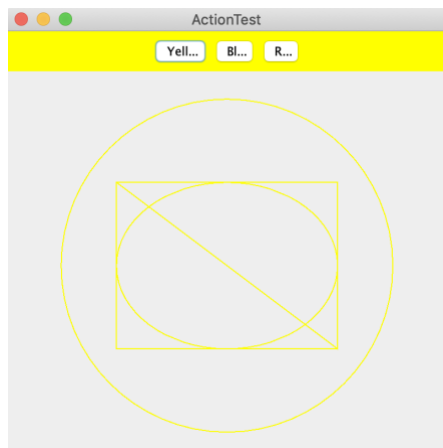
-추가 코드

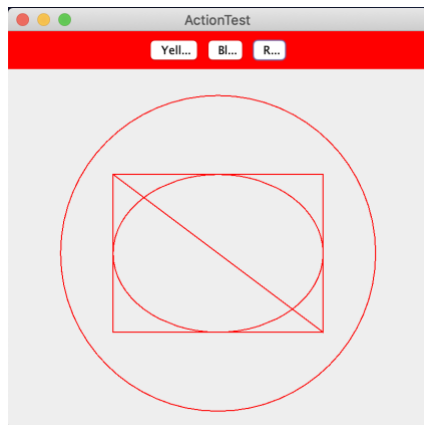
```
add(buttonPanel, BorderLayout.NORTH);
```

```
var dc = new DrawComponent();
```

```
add(dc, BorderLayout.CENTER);
```

-실행화면





-추가 코드

```
public void actionPerformed(ActionEvent event)
```

```
{
    Color c = (Color) getValue("color");
    buttonPanel.setBackground(c);
    dc.mysetCol(c);
    repaint();
}
```

```
class DrawComponent extends JComponent
```

```
{
    private static final int DEFAULT_WIDTH = 400;
    private static final int DEFAULT_HEIGHT = 400;
    private Color c;
```

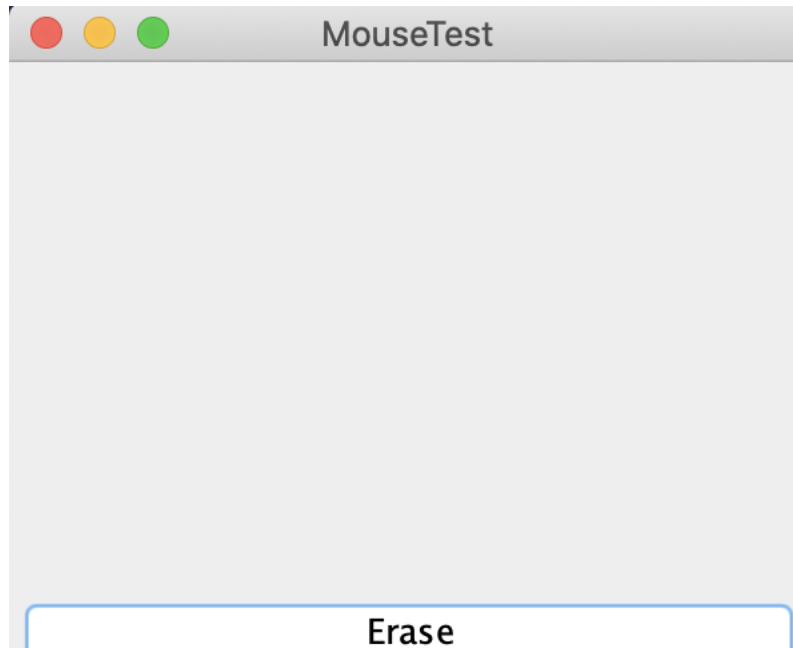
```
public void mysetCol(Color cc) {
```

```
    this.c = cc;
}
```

- 3-가 추가 코드

```
public void mousePressed(MouseEvent event)
{
    // add a new square if the cursor isn't inside a square
    current = find(event.getPoint());
    if(event.isPopupTrigger()) {
        remove(current);
    }
    else {
        if (current == null) add(event.getPoint());
    }
}
```

- 3-나 실행화면



-MouseComponent에 추가한 메소드

```
public void ClearRt() {  
    this.squares = new ArrayList<>();  
}
```

-MouseFrame 수정된 코드

```
public class MouseFrame extends JFrame  
{  
    MouseComponent mc;  
    public MouseFrame()  
    {  
        mc = new MouseComponent();  
  
        add(mc, BorderLayout.CENTER);  
        var jb = new JButton("Erase");  
        jb.addActionListener(new ActionListener() {  
            public void actionPerformed(ActionEvent event) {
```

```
        mc.ClearRt();  
        repaint();  
    }  
});  
add(jb, BorderLayout.SOUTH);  
  
pack();  
}
```