

Java CardLayout

 javatpoint.com/CardLayout

The CardLayout class manages the components in such a manner that only one component is visible at a time. It treats each component as a card that is why it is known as CardLayout.

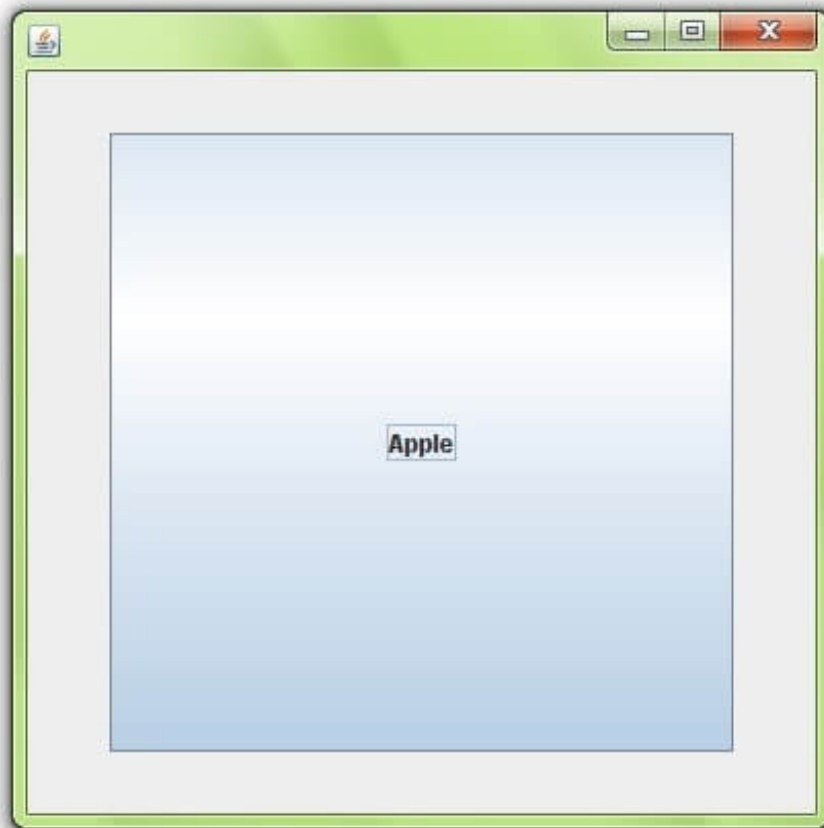
Constructors of CardLayout class

1. **CardLayout():** creates a card layout with zero horizontal and vertical gap.
2. **CardLayout(int hgap, int vgap):** creates a card layout with the given horizontal and vertical gap.

Commonly used methods of CardLayout class

- **public void next(Container parent):** is used to flip to the next card of the given container.
- **public void previous(Container parent):** is used to flip to the previous card of the given container.
- **public void first(Container parent):** is used to flip to the first card of the given container.
- **public void last(Container parent):** is used to flip to the last card of the given container.
- **public void show(Container parent, String name):** is used to flip to the specified card with the given name.

Example of CardLayout class



1. `import java.awt.*;`
2. `import java.awt.event.*;`
3. `import javax.swing.*;`
4. `public class CardLayoutExample extends JFrame implements ActionListener{`
5. `CardLayout card;`
6. `Button b1,b2,b3;`

```

7. Container c;
8.   CardLayoutExample(){
9.       c=getContentPane();
10.      card=new CardLayout(40,30);
11.      c.setLayout(card);
12.      b1=new JButton("Apple");
13.      b2=new JButton("Boy");
14.      b3=new JButton("Cat");
15.      b1.addActionListener(this);
16.      b2.addActionListener(this);
17.      b3.addActionListener(this);
18.      c.add("a",b1);c.add("b",b2);c.add("c",b3);
19.  }
20.  publicvoid actionPerformed(ActionEvent e) {
21.      card.next(c);
22.  }
23.  publicstaticvoid main(String[] args) {
24.      CardLayoutExample cl=new CardLayoutExample();
25.      cl.setSize(400,400);
26.      cl.setVisible(true);
27.      cl.setDefaultCloseOperation(EXIT_ON_CLOSE);
28.  }
29. }

```