

Posizionamento automatico: Layouts di base

[http://docs.oracle.com/javafx/2/
layout/jfxpub-layout.htm](http://docs.oracle.com/javafx/2/layout/jfxpub-layout.htm)

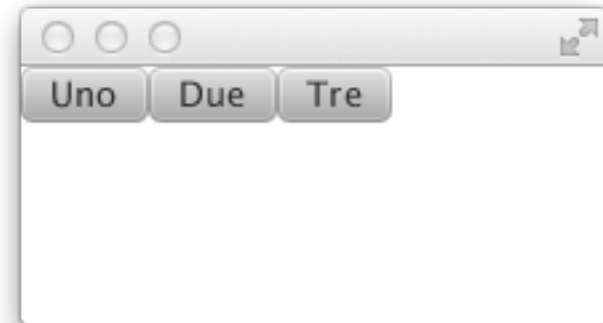
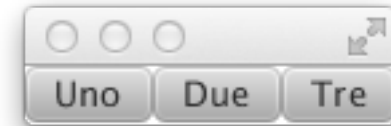
Container classes that automate common layout models

- The **HBox** class arranges its content nodes horizontally in a single row.
- The **VBox** class arranges its content nodes vertically in a single column.
- The **StackPane** class places its content nodes in a back-to-front single stack.
- The **TilePane** class places its content nodes in uniformly sized layout cells or tiles
- The **FlowPane** class arranges its content nodes in either a horizontal or vertical “flow,” wrapping at the specified width (for horizontal) or height (for vertical) boundaries.
- The **BorderPane** class lays out its content nodes in the top, bottom, right, left, or center region.
- The **AnchorPane** class enables developers to create anchor nodes to the top, bottom, left side, or center of the layout.
- The **GridPane** class enables the developer to create a flexible grid of rows and columns in which to lay out content nodes.

To achieve a desired layout structure, different containers can be nested within a JavaFX application.

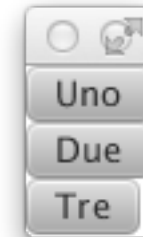
Layout: HBox

```
public class Layout1 extends Application {  
    public void start(Stage stage) {  
        Pane layout=new HBox();  
        layout.getChildren().add(new Button("Uno"));  
        layout.getChildren().add(new Button("Due"));  
        layout.getChildren().add(new Button("Tre"));  
        Group root = new Group(layout);  
        Scene scene = new Scene(root);  
        stage.setScene(scene);  
        stage.show();  
    }...}  
}
```



Layout: VBox

```
public class Layout1 extends Application {  
    public void start(Stage stage) {  
        Pane layout=new VBox();  
        layout.getChildren().add(new Button("Uno"));  
        layout.getChildren().add(new Button("Due"));  
        layout.getChildren().add(new Button("Tre"));  
        Group root = new Group(layout);  
        Scene scene = new Scene(root);  
        stage.setScene(scene);  
        stage.show();  
    }...}  
}
```



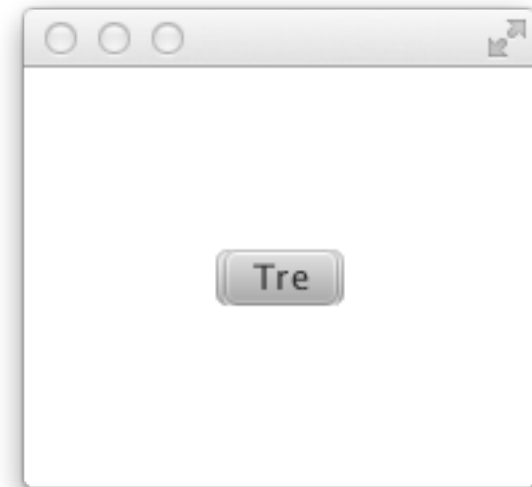
Layout: StackPane

```
public class Layout1 extends Application {  
    public void start(Stage stage) {  
        StackPane layout=new StackPane();  
        layout.getChildren().add(new Button("Uno"));  
        layout.getChildren().add(new Button("Due"));  
        layout.getChildren().add(new Button("Tre"));  
        Group root = new Group(layout);  
        Scene scene = new Scene(root);  
        stage.setScene(scene);  
        stage.show();  
    }...}  
}
```



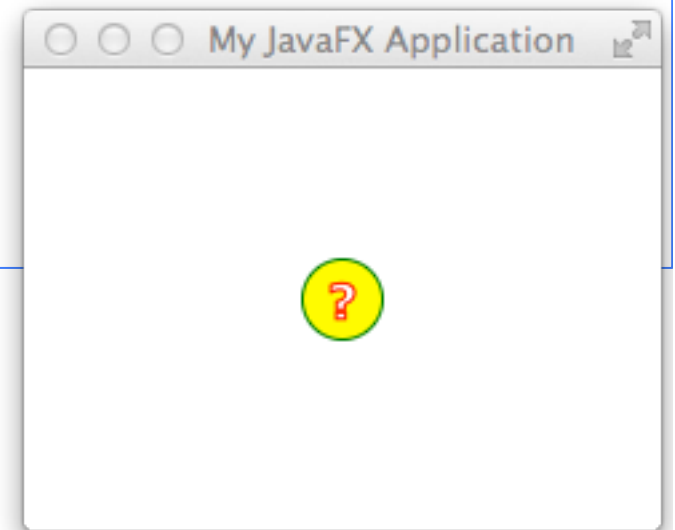
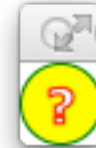
Layout: StackPane

```
public class Layout1 extends Application {  
    public void start(Stage stage) {  
        StackPane layout=new StackPane();  
        layout.getChildren().add(new Button("Uno"));  
        layout.getChildren().add(new Button("Due"));  
        layout.getChildren().add(new Button("Tre"));  
//Group root = new Group(layout);  
//Scene scene = new Scene(root);  
        Scene scene = new Scene(layout);  
        stage.setScene(scene);  
        stage.show();  
    }...}
```



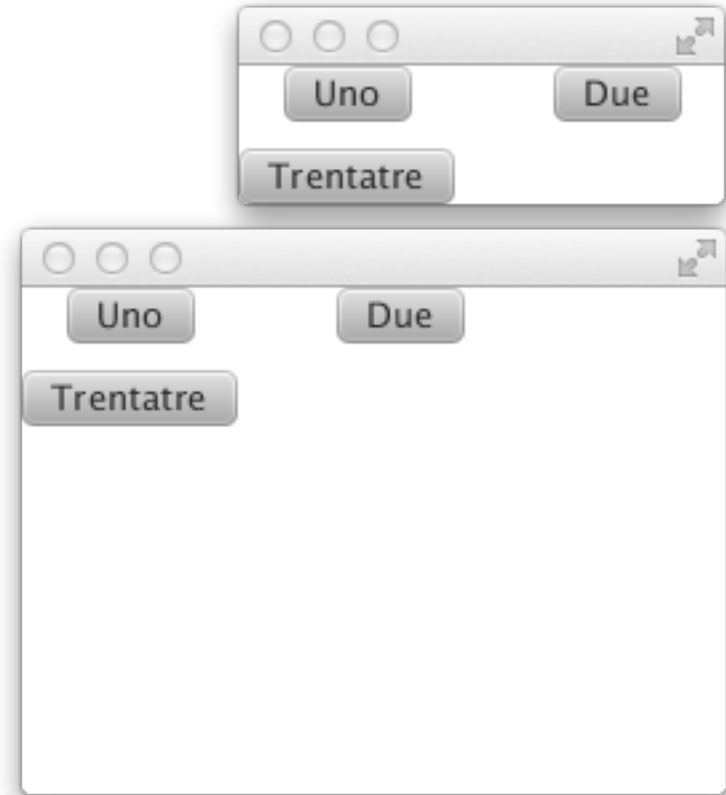
Layout: StackPane

```
public class Layout1 extends Application {  
    public void start(Stage stage) {  
        StackPane stack = new StackPane();  
        Circle helpIcon = new Circle(15, 15, 15);  
        helpIcon.setFill(Color.YELLOW);  
        helpIcon.setStroke(Color.GREEN);  
        Text helpText = new Text("?");  
        helpText.setFont(Font.font("Verdana", FontWeight.BOLD, 18));  
        helpText.setFill(Color.WHITE);  
        helpText.setStroke(Color.RED);  
        stack.getChildren().addAll(helpIcon, helpText);  
        stack.setAlignment(Pos.CENTER);  
        Scene scene = new Scene(stack);  
        stage.setTitle("My JavaFX Application");  
        stage.setScene(scene);  
        stage.show();  
    }  
}...}
```



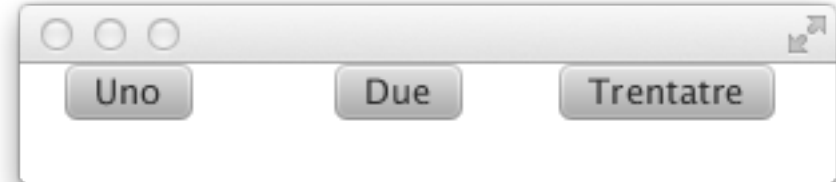
Layout: TilePane

```
public class Layout1 extends Application {  
    public void start(Stage stage) {  
        //Pane layout=new HBox();  
        //Pane layout=new VBox();  
        //StackPane layout=new StackPane();  
        TilePane layout=new TilePane();  
        layout.setVgap(10);  
        layout.setHgap(20);  
        layout.setPrefColumns(2);  
        layout.getChildren().add(new Button("Uno"));  
        layout.getChildren().add(new Button("Due"));  
        layout.getChildren().add(new Button("Trentatre"));  
        Group root = new Group(layout);  
        Scene scene = new Scene(root);  
        stage.setScene(scene);  
        stage.show();  
    }  
}
```



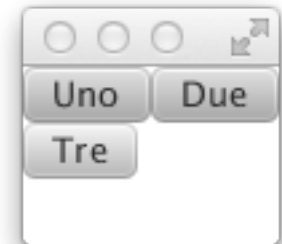
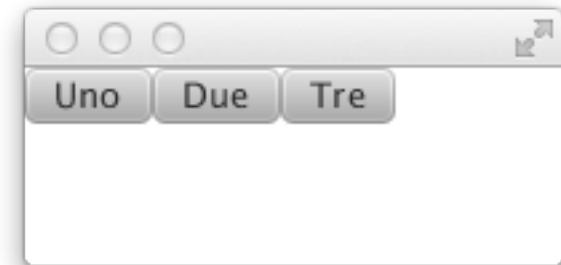
Layout: TilePane

```
public class Layout1 extends Application {  
    public void start(Stage stage) {  
        //Pane layout=new HBox();  
        //Pane layout=new VBox();  
        //StackPane layout=new StackPane();  
        TilePane layout=new TilePane();  
        layout.setVgap(10);  
        layout.setHgap(20);  
        layout.setPrefColumns(2);  
        layout.getChildren().add(new Button("Uno"));  
        layout.getChildren().add(new Button("Due"));  
        layout.getChildren().add(new Button("Trentatre"));  
//Group root = new Group(layout);  
//Scene scene = new Scene(root);  
        Scene scene = new Scene(layout);  
        stage.setScene(scene);  
        stage.show();  
    }  
}
```



FlowPane

```
public class Layout1 extends Application {  
    public void start(Stage stage) {  
        final FlowPane layout=new FlowPane();  
        layout.setPrefWrapLength(100);  
        layout.getChildren().add(new Button("Uno"));  
        layout.getChildren().add(new Button("Due"));  
        layout.getChildren().add(new Button("Tre"));  
        Scene scene = new Scene(layout);  
        stage.setScene(scene);  
        stage.show();  
    }  
}
```



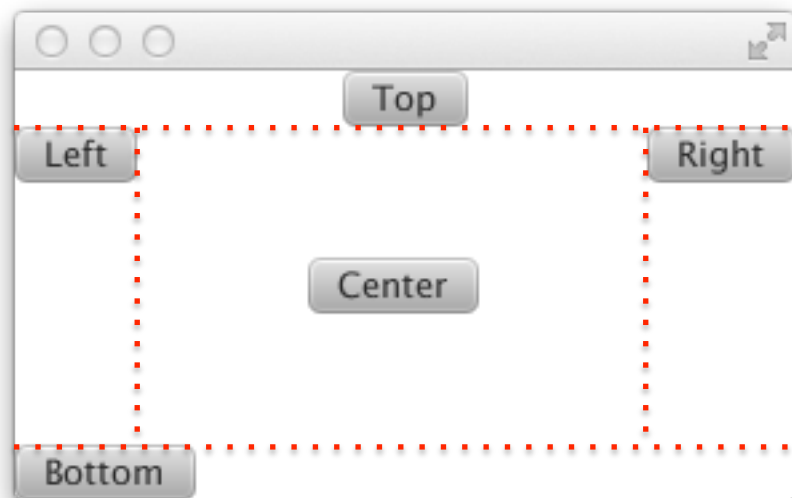
Posizionamento automatico: Layouts avanzati

```

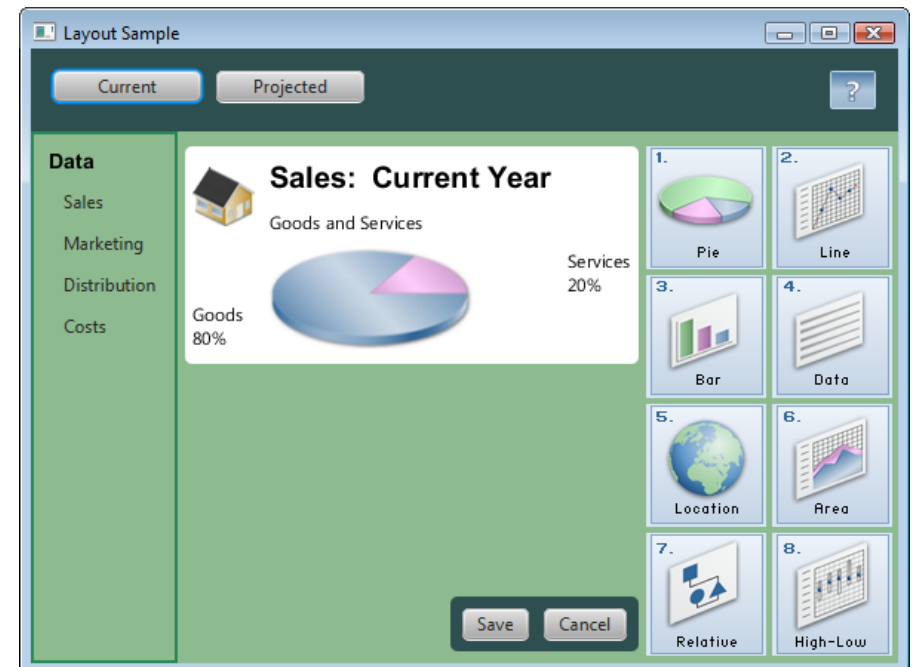
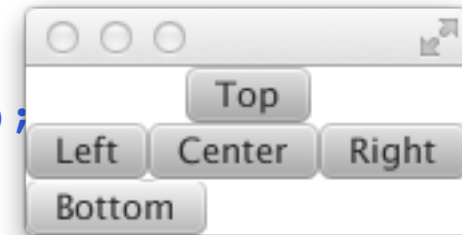
public class Layout1 extends Application {
    public void start(Stage stage) {
        BorderPane layout=new BorderPane();
        Button top=new Button("Top");
        BorderPane.setAlignment(top, Pos.TOP_CENTER);
        layout.setTop(top);
        layout.setBottom(new Button("Bottom"));
        layout.setLeft(new Button("Left"));
        layout.setRight(new Button("Right"));
        layout.setCenter(new Button("Center"));
        Scene scene = new Scene(layout);
        stage.setScene(scene);
        stage.show();
    }
}

```

...

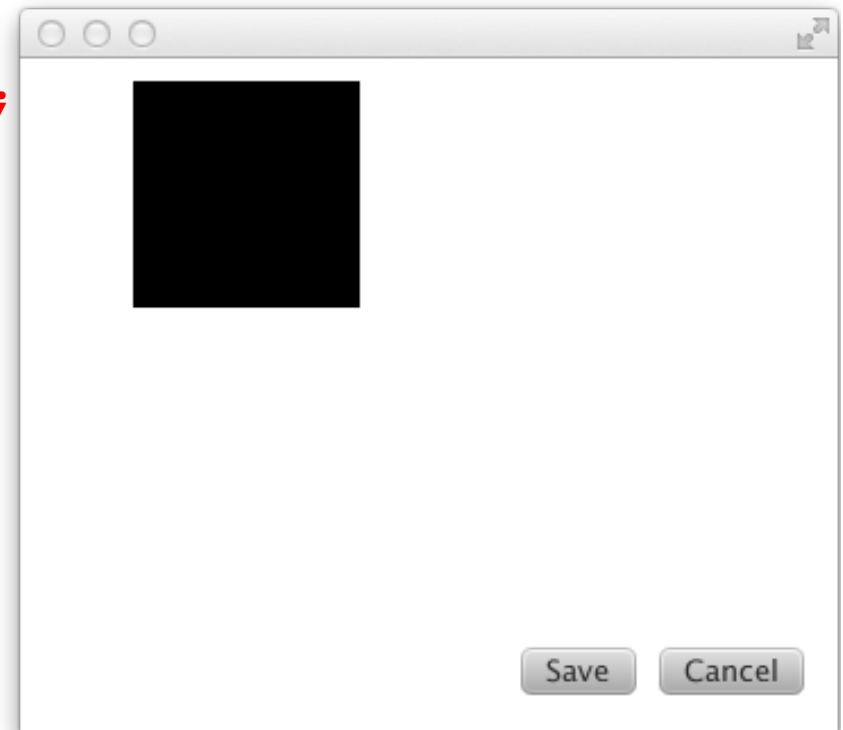
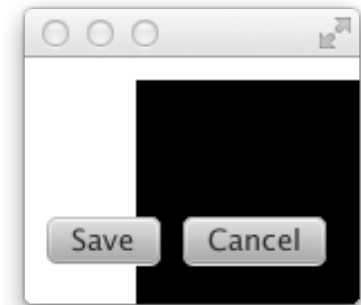


BorderPane



AnchorPane

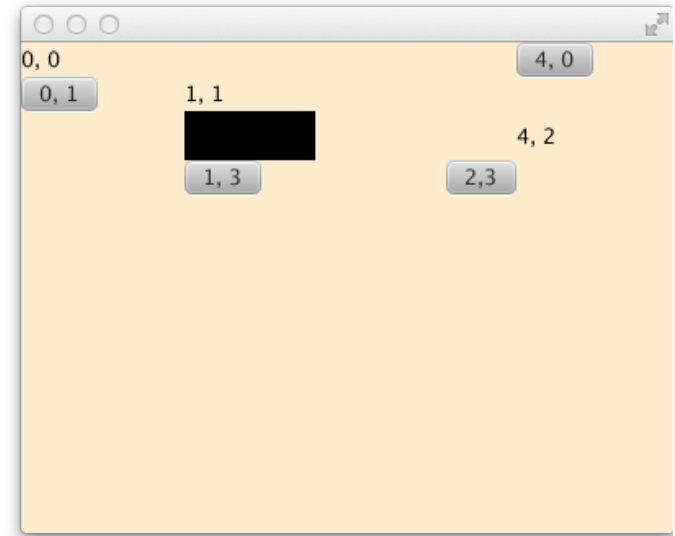
```
public void start(Stage stage) {  
    AnchorPane anchorpane = new AnchorPane();  
    Button buttonSave = new Button("Save");  
    Button buttonCancel = new Button("Cancel");  
    HBox hb = new HBox();  
    hb.setPadding(new Insets(0, 10, 10, 10));  
    hb.setSpacing(10);  
    hb.getChildren().addAll(buttonSave, buttonCancel);  
    Rectangle r=new Rectangle(100,100);  
    anchorpane.getChildren().addAll(r,hb);  
    AnchorPane.setBottomAnchor(hb, 8.0);  
    AnchorPane.setRightAnchor(hb, 5.0);  
    AnchorPane.setTopAnchor(r, 10.0);  
    AnchorPane.setLeftAnchor(r, 50.0);  
    Scene scene = new Scene(anchorpane);  
    stage.setScene(scene);  
    stage.show();  
}
```



```

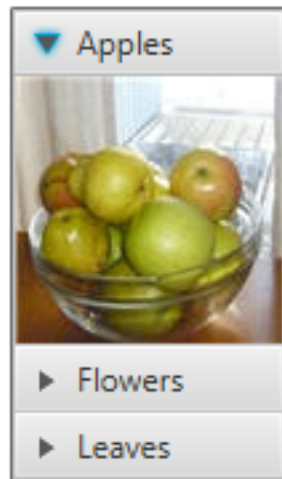
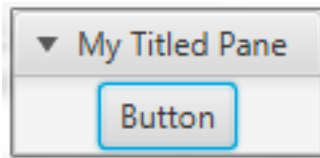
public void start(Stage primaryStage) {
    double width = 400;
    double height = 300;
    GridPane gridPane = new GridPane();
    Scene scene = new Scene(gridPane,
        width, height, Color.BLANCHEDALMOND);
    gridPane.add(new Text("0, 0"), 0, 0);
    gridPane.add(new Button("0, 1"), 0, 1);
    gridPane.add(new Text("1, 1"), 1, 1);
    Rectangle r=new Rectangle(80,30);
    gridPane.add(r, 1, 2);
    gridPane.add(new Button("1, 3"), 1, 3);
    gridPane.add(new Button("2,3"), 2, 3);
    gridPane.add(new Button("4, 0"), 4, 0);
    gridPane.add(new Text("4, 2"), 4, 2);
    ColumnConstraints column1 = new ColumnConstraints(100);
    ColumnConstraints column2 = new ColumnConstraints();
    column2.setPercentWidth(40);
    column2.setHgrow(Priority.ALWAYS);
    gridPane.getColumnConstraints().addAll(column1, column2);
    primaryStage.setScene(scene);
    primaryStage.show();
}

```



GridPane

TitledPane



Accordion

<http://docs.oracle.com/javase/8/javafx/user-interface-tutorial/accordion-titledpane.htm#CACGBAHI>