Uvod u JavaFX

AUDITORNE VJEŽBE

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Dodatak e(fx)clipse

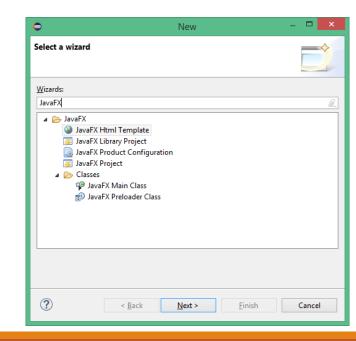
• Eclipse sadrži poseban dodatak e(fx)clipse za razvoj JavaFX aplikacija

Trenutna verzija za Eclipse 2018-09 je 3.4.1

· Nakon instalacije dodatka Eclipse omogućava kreiranje resursa vezanih uz

JavaFX





JavaFX Scene Builder

- Vizualni alat za dizajniranje JavaFX grafičkih sučelja
- · Omogućena integracija s najčešće korištenim razvojnim okruženjima za Javu
- Omogućava drag-and-drop elemenata na grafičko sučelje
- Svaka promjena na grafičkom sučelju popraćena je generiranjem programskog koda u FXML-u
- Omogućava preview dizajna aplikacije
- Instalira se kao odvojeni alat od Eclipsea

JavaFX Scene Builder - instalacija

Download Scene Builder for Java 10

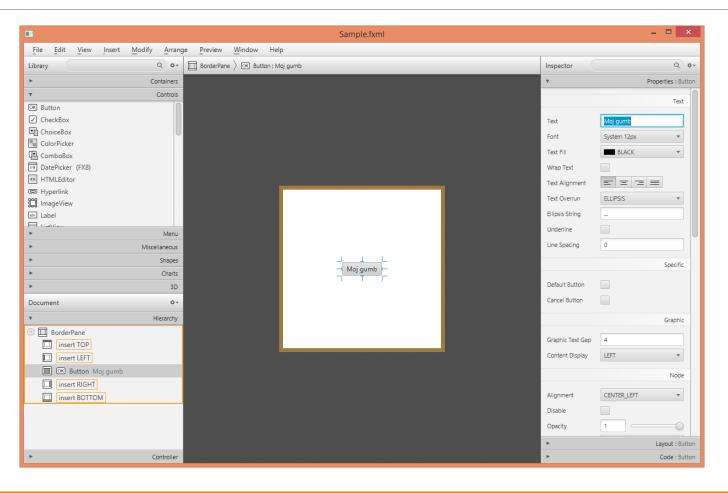
The latest version of Scene Builder for Java 10 is 10.0.0, it was released on Jun 5, 2018.

To be kept informed of Scene Builder releases, consider subscribing to the Gluon Newsletter.

Product	Platform	Download
Scene Builder	Executable Jar	Download
Scene Builder	Windows Installer	Download
Scene Builder	Mac OS X dmg	Download
Scene Builder	Linux RPM	Download
Scene Builder	Linux Deb	Download
Scene Builder Kit info	Jar File	Download

http://gluonhq.com/labs/scene-builder/

JavaFX Scene Builder – izgled sučelja



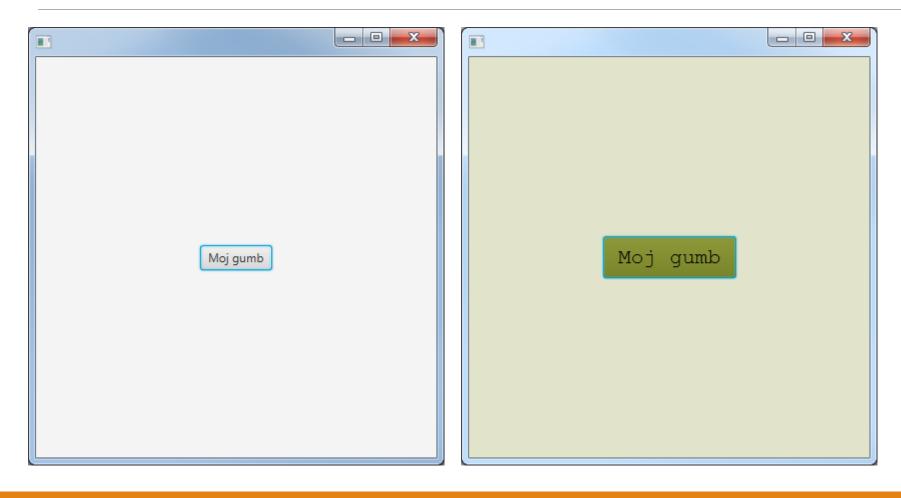
Korištenje CSS-a u JavaFX-u

- Osim u programskom kodu Java, CSS je moguće kreirati i iz datoteke
- Na primjer, ako je definiran sljedeći stil:

```
.root{
    -fx-font-size: 16pt;
    -fx-font-family: "Courier New";
    -fx-base: rgb(132, 145, 47);
    -fx-background: rgb(225, 228, 203);
}
```

• Ako postoji objekt pod nazivom "root" u programskom jeziku Java, na njega će se primijeniti navedeni stilovi

Korištenje CSS-a u JavaFX-u



Primjer korištenja HBox organizatora

```
public class HBoxExample extends Application {
   @Override
    public void start(Stage primaryStage) {
        Group root = new Group();
        Scene scene = new Scene(root, 300, 250);
        HBox hbox = new HBox(5);
        hbox.setPadding(new Insets(1));
        Rectangle r1 = new Rectangle(10, 10);
        Rectangle r2 = new Rectangle(20, 20);
        Rectangle r3 = new Rectangle(5, 20);
        Rectangle r4 = new Rectangle(20, 5);
        HBox.setMargin(r1, new Insets(2,2,2,2));
```

Primjer korištenja HBox organizatora

```
hbox.getChildren().addAll(r1, r2, r3, r4);
root.getChildren().add(hbox);
  primaryStage.setOnShown((WindowEvent we) -> {
    System.out.println("hbox width " + hbox.getBoundsInParent().getWidth());
    System.out.println("hbox height " + hbox.getBoundsInParent().getHeight());
  });
  primaryStage.setTitle("HBox Example");
  primaryStage.setScene(scene);
  primaryStage.show();
  public static void main(String[] args) {
      Launch(args);
```

Primjer korištenja VBox organizatora

```
public class VBoxExample extends Application {
   @Override
    public void start(Stage primaryStage) {
       Group root = new Group();
        Scene scene = new Scene(root, 300, 250);
       VBox vbox = new VBox(5);
       vbox.setPadding(new Insets(1));
       Rectangle r1 = new Rectangle(10, 10);
        Rectangle r2 = new Rectangle(20, 20);
        Rectangle r3 = new Rectangle(5, 20);
        Rectangle r4 = new Rectangle(20, 5);
       VBox.setMargin(r1, new Insets(2,2,2,2));
```

Primjer korištenja VBox organizatora

```
vbox.getChildren().addAll(r1, r2, r3, r4);
root.getChildren().add(vbox);
primaryStage.setOnShown((WindowEvent we) -> {
   System.out.println("vbox width " + vbox.getBoundsInParent().getWidth());
   System.out.println("vbox height " + vbox.getBoundsInParent().getHeight());
  });
  primaryStage.setTitle("VBox Example");
  primaryStage.setScene(scene);
  primaryStage.show();
 public static void main(String[] args) {
     Launch(args);
```

Primjer korištenja FlowPane organizatora

```
public class FlowPaneExample extends Application {
   @Override
    public void start(Stage primaryStage) {
        Group root = new Group();
        Scene scene = new Scene(root);
        FlowPane flowPane = new FlowPane();
        Button b1 = new Button("Prvi");
        Button b2 = new Button("Drugi");
        Button b3 = new Button("Treći");
        Button b4 = new Button("Cetvrti");
        Button b5 = new Button("Peti");
        Button b6 = new Button("Sesti");
        Button b7 = new Button("Sedmi");
        Button b8 = new Button("Osmi");
```

Primjer korištenja FlowPane organizatora

```
Button b9 = new Button("Deveti");
  Button b10 = new Button("Deseti");
  flowPane.setAlignment(Pos.TOP_RIGHT);
 flowPane.getChildren().addAll(b1, b2, b3, b4, b5, b6, b7, b8, b9, b10);
  root.getChildren().add(flowPane);
  primaryStage.setTitle("VBox Example");
  primaryStage.setScene(scene);
  primaryStage.show();
public static void main(String[] args) {
  launch(args);
```

```
public class BorderPaneExample extends Application {
   @Override
    public void start(Stage primaryStage) {
        Group root = new Group();
        Scene scene = new Scene(root);
        BorderPane borderPane = new BorderPane();
        Button b1 = new Button("GORNJI");
        Button b2 = new Button("LIJEVI");
        Button b3 = new Button("SREDIŠNJI");
        Button b4 = new Button("DESNI");
        Button b5 = new Button("DONJI");
        BorderPane.setAlignment(b1, Pos.TOP CENTER);
```

```
borderPane.setTop(b1);
    borderPane.setLeft(b2);
   borderPane.setCenter(b3);
   borderPane.setRight(b4);
    BorderPane.setAlignment(b5, Pos.BOTTOM_CENTER);
   borderPane.setBottom(b5);
   root.getChildren().add(borderPane);
   primaryStage.setTitle("BorderPane Example");
   primaryStage.setScene(scene);
   primaryStage.show();
public static void main(String[] args) {
    Launch(args);
```

```
public class GridPaneForm extends Application {
    public static void main(String[] args) {
        Application. launch(args);
   @Override
    public void start(Stage primaryStage) {
        primaryStage.setTitle("GridPaneForm ");
        BorderPane root = new BorderPane();
        Scene scene = new Scene(root, 380, 150, Color.WHITE);
        GridPane gridpane = new GridPane();
        gridpane.setPadding(new Insets(5));
        gridpane.setHgap(5);
        gridpane.setVgap(5);
```

```
ColumnConstraints column1 = new ColumnConstraints(100);
ColumnConstraints column2 = new ColumnConstraints(50, 150, 300);
column2.setHgrow(Priority.ALWAYS);
gridpane.getColumnConstraints().addAll(column1, column2);
Label fNameLbl = new Label("First Name");
TextField fNameFld = new TextField();
Label 1NameLbl = new Label("Last Name");
TextField lNameFld = new TextField();
Button saveButt = new Button("Save");
GridPane.setHalignment(fNameLbl, HPos.RIGHT);
gridpane.add(fNameLbl, 0, 0);
```

```
GridPane.setHalignment(LNameLbl, HPos.RIGHT);
gridpane.add(lNameLbl, 0, 1);

GridPane.setHalignment(fNameFld, HPos.LEFT);
gridpane.add(fNameFld, 1, 0);

GridPane.setHalignment(LNameFld, HPos.LEFT);
gridpane.add(lNameFld, 1, 1);

GridPane.setHalignment(saveButt, HPos.RIGHT);
gridpane.add(saveButt, 1, 2);
```

```
FlowPane topBanner = new FlowPane();
topBanner.setAlignment(Pos.TOP RIGHT);
topBanner.setPrefHeight(40);
String backgroundStyle =
        "-fx-background-color: lightblue;"
        + "-fx-background-radius: 30%;"
        + "-fx-background-inset: 5px;";
topBanner.setStyle(backgroundStyle);
SVGPath svgIcon = new SVGPath();
svgIcon.setStroke(Color.LIGHTGRAY);
svgIcon.setFill(Color.WHITE);
Text contactText = new Text("Contacts");
contactText.setFill(Color.WHITE);
```

```
Font serif = Font.font("Dialog", 30);
  contactText.setFont(serif);
  topBanner.getChildren().addAll(svgIcon, contactText);

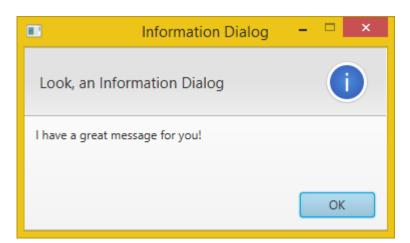
root.setTop(topBanner);
  root.setCenter(gridpane);

primaryStage.setScene(scene);

primaryStage.show();
}
```

Primjer korištenja dijaloga

```
Alert alert = new Alert(AlertType.INFORMATION);
alert.setTitle("Information Dialog");
alert.setHeaderText("Look, an Information Dialog");
alert.setContentText("I have a great message for you!");
alert.showAndWait();
```



http://code.makery.ch/blog/javafx-dialogs-official/

Pitanja?