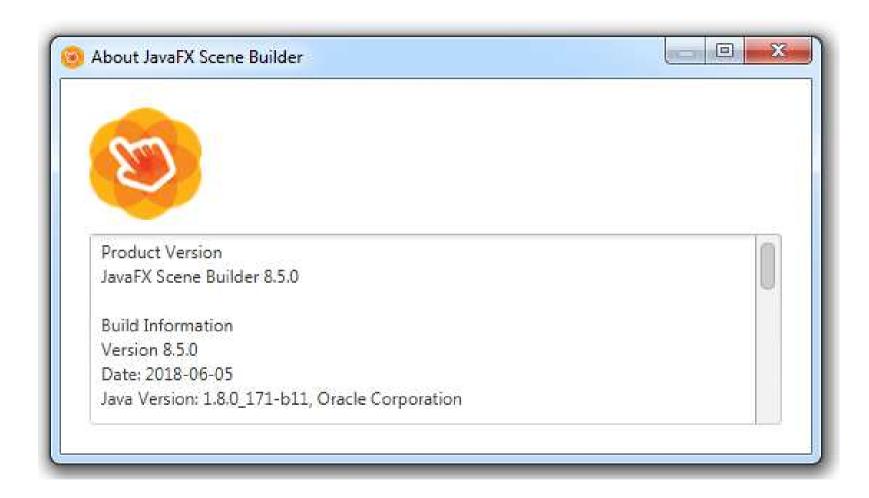
## Tworzymy projekt JavaFX, Eclipse





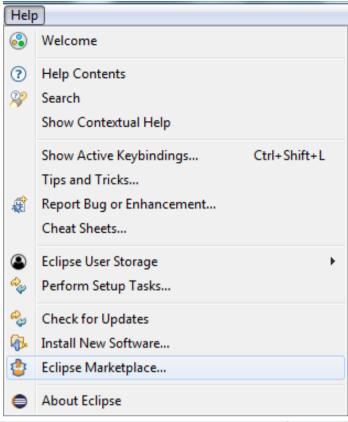
## Tworzymy projekt JavaFX, Scene Builder





Jeśli korzystasz z wersji Javy 10 lub 11 użyj Scene Builder'a odpowiednio w wersji 10 lub 11.

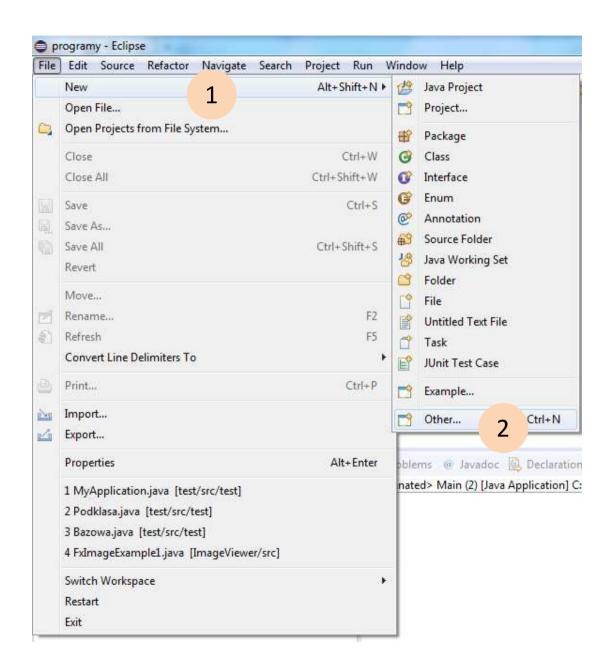
## Tworzymy projekt JavaFX, plugin

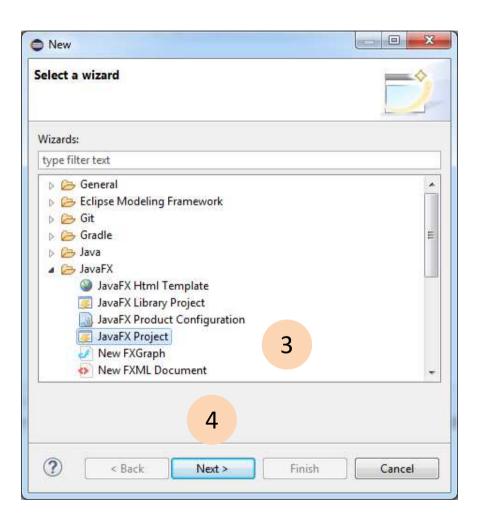




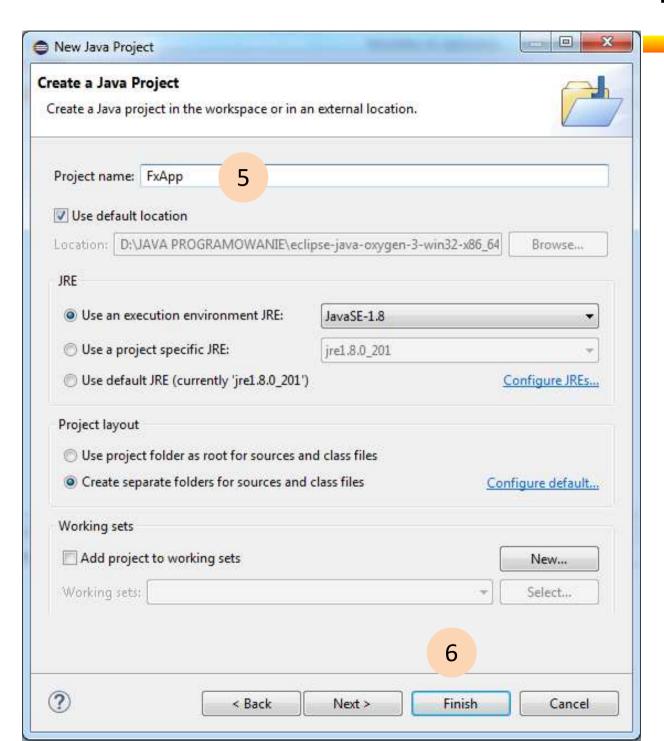
#### Tworzymy projekt JavaFX, 1/2







#### Tworzymy projekt JavaFX, 2/2



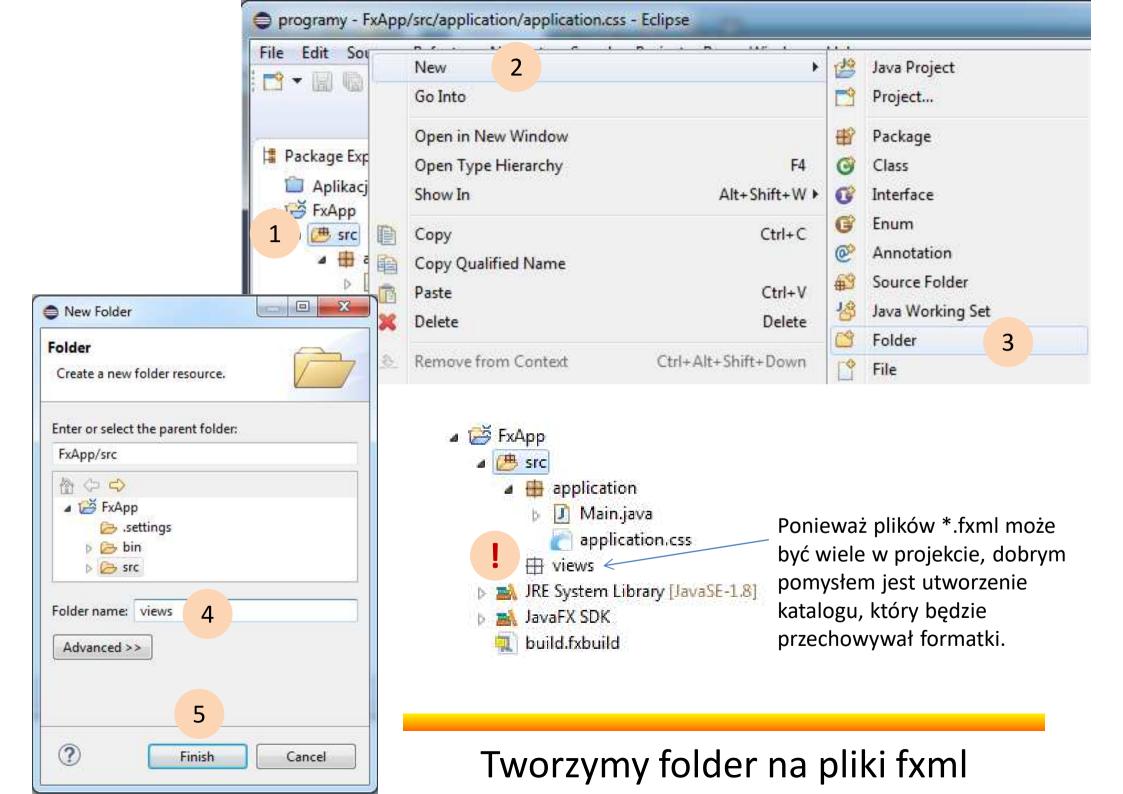
Utworzony projekt

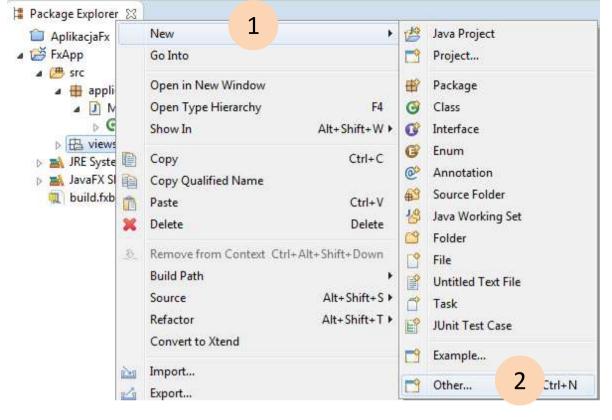
☐ FxApp
☐ ☐ FxApp
☐ ☐ application
☐ Main.java
☐ application.css
☐ JRE System Library [JavaSE-1.8]
☐ JavaFX SDK
☐ build.fxbuild

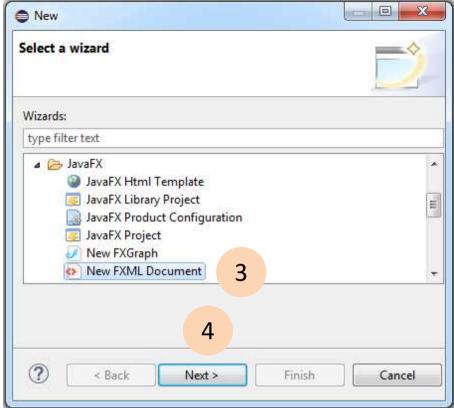
## Aplikacja JavaFX

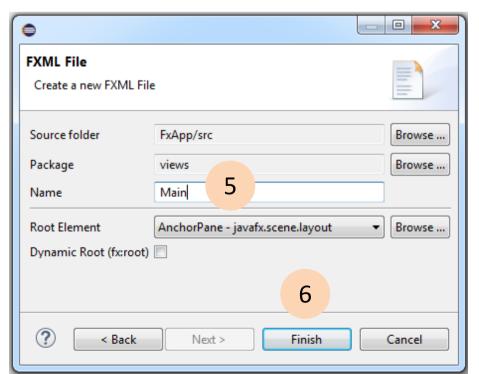


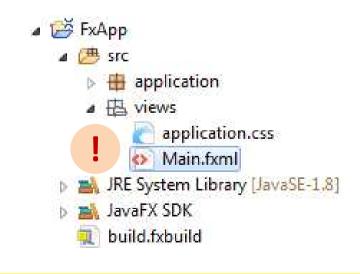
```
🛮 📂 FxApp
public class Main extends Application {
                                                             application
                                                                   Main.iava
 @Override
                                                                   application.css
 public void start(Stage primaryStage) {
                                                           JRE System Library [JavaSE-1.8]
                                                           JavaFX SDK
   trv {
                                                              build.fxbuild
      BorderPane root = new BorderPane();
      Scene scene = new Scene(root, 400, 400);
      scene.getStylesheets().add(getClass().getResource("application.css")
                                              .toExternalForm());
      primaryStage.setScene(scene);
      primaryStage.show();
   } catch(Exception e) {e.printStackTrace();}
 public static void main(String[] args) {
   Launch(args);
```











Tworzymy formatkę fxml

# Aplikacja JavaFX



```
public class Main extends Application {
                                                     Zmienimy tę wygenerowaną
                                                     linię kodu, aby wczytać naszą
 @Override
                                                    formatkę fxml
 public void start(Stage primaryStage) {
   try {
     BorderPane root = new BorderPane();
      Scene scene = new Scene(root, 400, 400);
      scene.getStylesheets().add(getClass().getResource("application.css")
                                              .toExternalForm());
      primaryStage.setScene(scene);
      primaryStage.show();
   } catch(Exception e) {e.printStackTrace();}
                                                Ponieważ przenieśliśmy nasz plik CSS
                                                do katalogu views należałoby
                                                Zmienić ścieżkę na:
 public static void main(String[] args) {
                                                "/views/application.css"
   Launch(args);
                                                W dalszej części nie będziemy
                                                korzystać z tego pliku, więc usuniemy
                                                tę linię kodu.
```

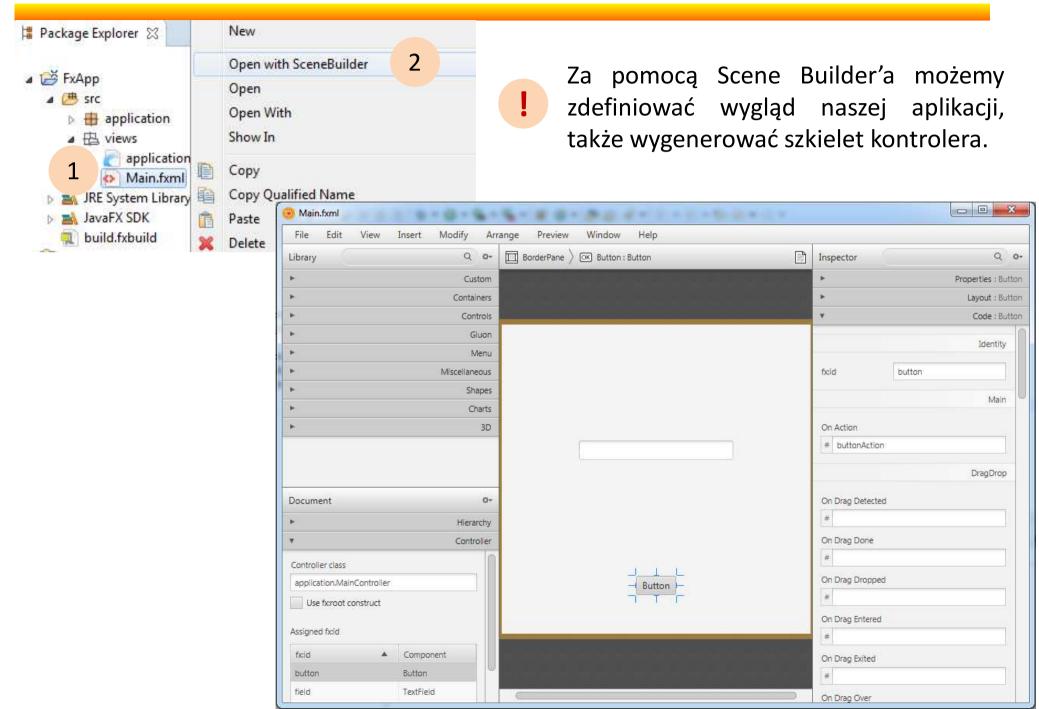
## Aplikacja JavaFX

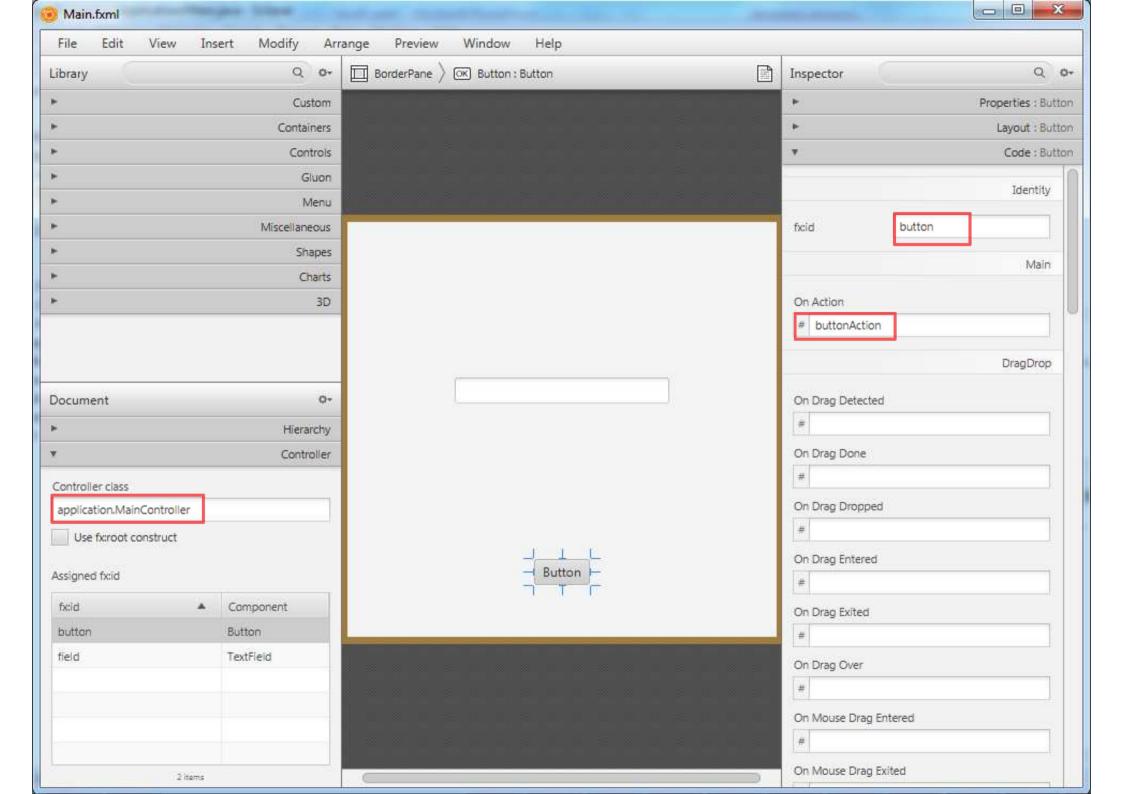


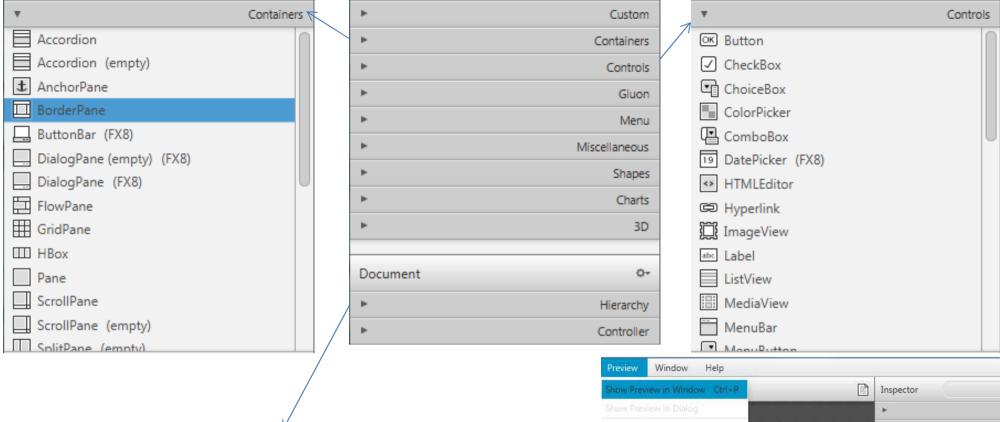
```
import javafx.application.Application;
import javafx.stage.Stage;
import javafx.fxml.FXMLLoader;
import javafx.scene.Parent;
import javafx.scene.Scene;
public class MyApplication extends Application {
   @Override
   public void start(Stage primaryStage){
     Parent root = FXMLLoader.load(getClass().getResource("/views/Main.fxml"));
     Scene scene = new Scene(root, 400, 400);
     primaryStage.setScene(scene);
     primaryStage.show();
                                                   Wczytujemy formatkę fxml
   public static void main(String[] args) {
     launch(MyApplication.class, args);
```

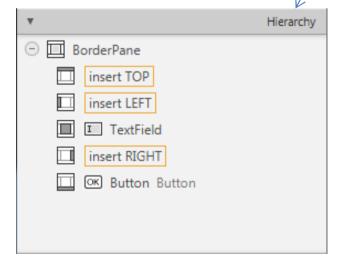
# Otwieramy formatkę w Scene Builder 👙 Java Fx

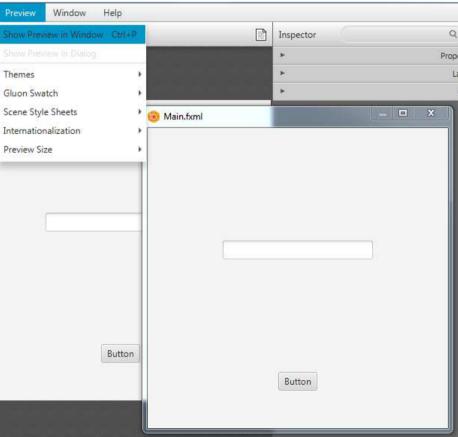








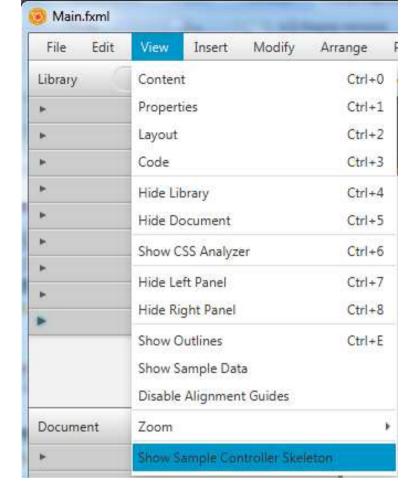




## Wygenerowana Formatka FXML

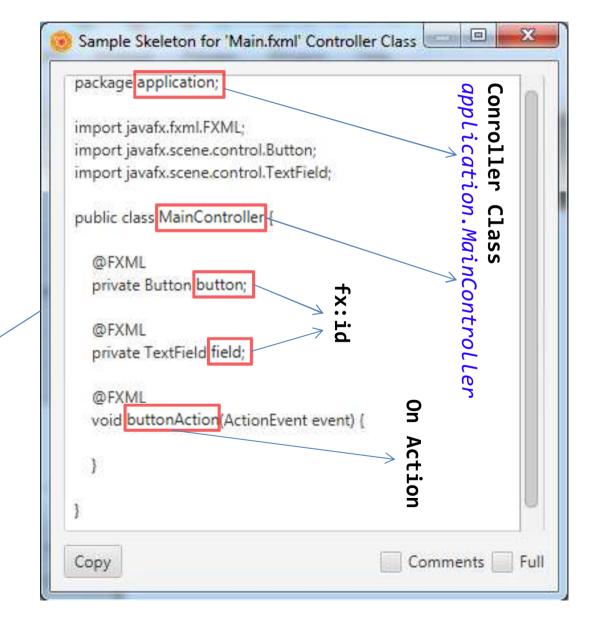


```
<?xml version="1.0" encoding="UTF-8"?>
<?import javafx.geometry.Insets?>
<?import javafx.scene.control.Button?>
<?import javafx.scene.control.TextField?>
<?import javafx.scene.layout.BorderPane?>
<BorderPane prefHeight="400.0" prefWidth="400.0, ...</pre>
     xmlns="http://javafx.com/javafx/8.0.171" xmlns:fx=http://javafx.com/fxml/1
                                     fx:controller="application.MainController">
 <bottom>
     <Button fx:id="button" mnemonicParsing="false" onAction="#buttonAction"</pre>
                                     text="Button" BorderPane.alignment="CENTER">
        <BorderPane.margin>
           <Insets bottom="50.0" />
        </BorderPane.margin>
     </Button>
 </bottom>
 <center>
     <TextField fx:id="field" maxWidth="200.0" BorderPane.alignment="CENTER">
        <BorderPane.margin>
           <Insets />
        </BorderPane.margin>
     </TextField>
 </center>
</BorderPane>
```



# ■ FxApp ■ Brc ■ application D Main.java D MainController.java D Wiews E application.css D Main.fxml D Main.fxml

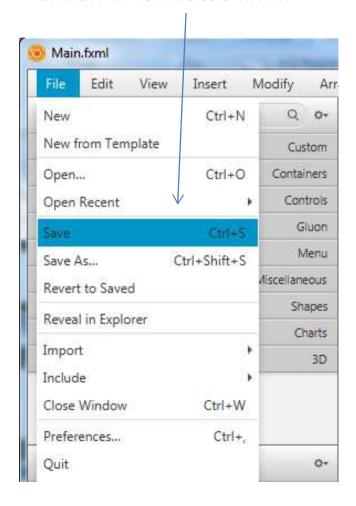
## Generowanie szkieletu kontrolera aplikacji



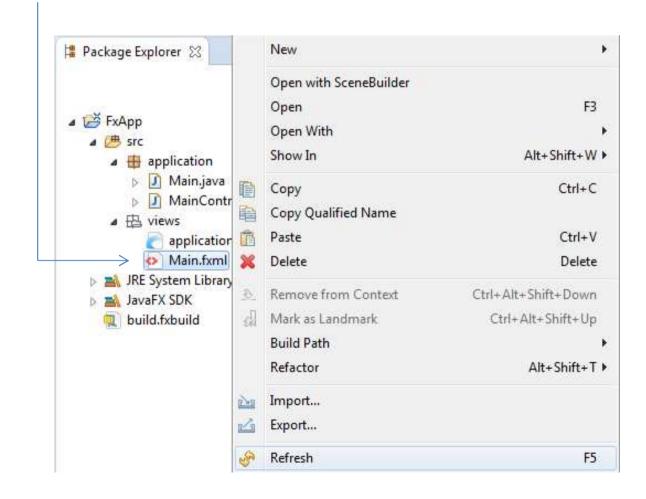
## Zanim uruchomimy aplikację...



# Należy pamiętać o zapisaniu zmian w formatce .fxml



#### Należy również odświeżyć plik w projekcie programu Eclipse



## Uruchamiamy Aplikację



