

# JavaFX/FXML CookBook (Nutshell examples)



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# Agenda

- Required Software Components
  - Java
  - ooRexx
  - BSF4ooRexx
  - SceneBuilder
- Historical Overview
  - Rexx/BSF
  - Java/JavaFX
- SceneBuilder
- Nutshell Examples
  - Appetizer
  - CSS
  - SQLite – JDBC
  - JFoenix – Class
  - Multiple GUIs

# Required Software Components

- Java
- ooRexx
- BSF4ooRexx
- SceneBuilder
- (DB Browser for SQLite)

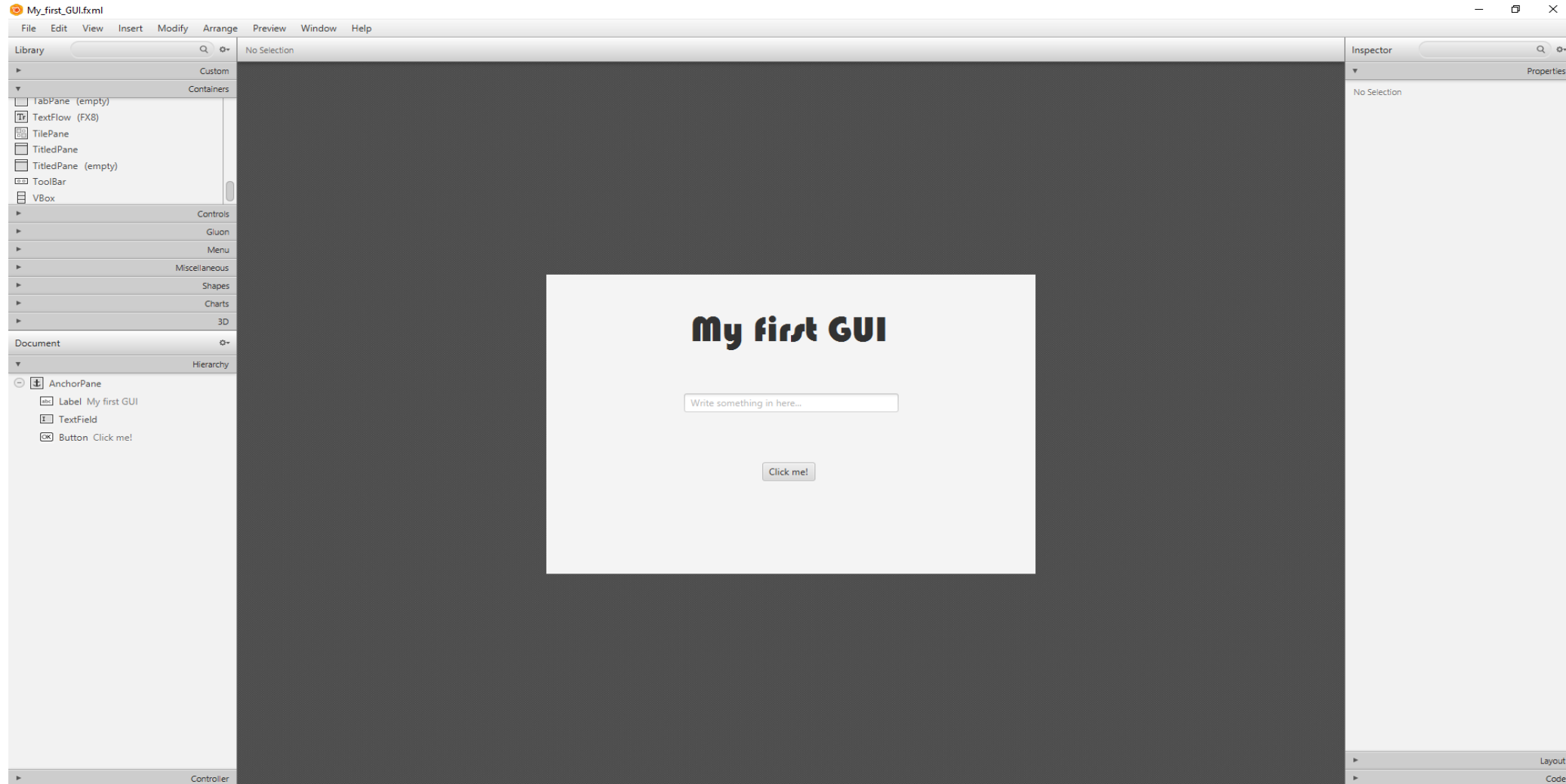
# Historical Overview: Rexx/BSF

- 1979: Rexx by IBM
- 1980: Main scripting language
  
- 1996: ANSI published standard for Rexx
- 2001: BSF4Rexx
- 2004: IBM released Rexx as open-source software
  - ooRexx (Open Object Rexx)
- 2006: BSF4ooRexx "Vienna" version
  
- Since then:
  - Various updates and improvements

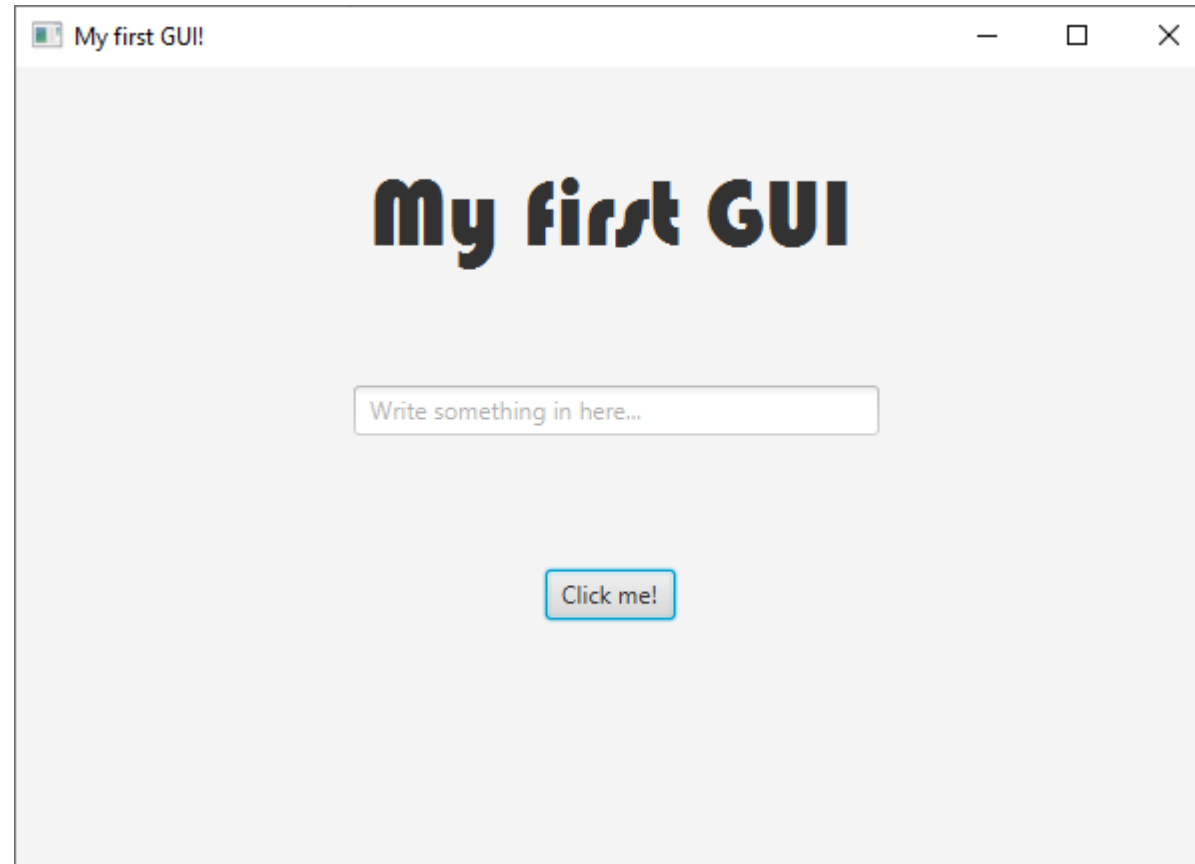
# Historical Overview: Java/JavaFX

- 2007: JavaFX version 1.0
- Since then: Various approaches and versions
- 2011: JavaFX version 2.0 (FXML)
- Since 2018: Part of OpenJFX

# SceneBuilder



# Appetizer GUI



# Appetizer FXML

```
<?xml version="1.0" encoding="UTF-8"?>

<?import javafx.scene.control.Button?>
<?import javafx.scene.control.Label?>
<?import javafx.scene.control.TextField?>
<?import javafx.scene.layout.AnchorPane?>
<?import javafx.scene.text.Font?>

<?language rexx?>

<AnchorPane maxHeight="-Infinity" maxWidth="-Infinity" minHeight="-Infinity" minWidth="-Infinity" prefHeight="400.0" prefWidth="600.0" xmlns="http://javafx.com/javafx/11.0.1" xmlns:fx="http://javafx.com/fxml/1">
  <!-- call Rexx program, its public routine "buttonClicked" is known afterwards -->
  <fx:script source="My_first_GUI_controller.rexx" />
  <children>
    <Label alignment="CENTER" layoutX="63.0" layoutY="46.0" prefHeight="44.0" prefWidth="469.0" text="My first GUI" textAlignment="CENTER">
      <font>
        <Font name="Bauhaus 93" size="48.0" />
      </font>
    </Label>
    <TextField fx:id="textField1" layoutX="169.0" layoutY="159.0" prefHeight="14.0" prefWidth="263.0" promptText="Write something in here..." />
    <Button fx:id="button1" layoutX="265.0" layoutY="251.0" onAction="slotDir=arg(arg()); call buttonClicked slotDir;" mnemonicParsing="false" text="Click me!" />
  </children>
</AnchorPane>
```



# Survey:



- Please, go to [www.menti.com](http://www.menti.com) and enter the code **65 92 91 6**
- Alternatively, scan this QR-Code

# Cascading Style Sheet



stylesheets="@n\_vs\_j\_css.css"

```
.root{
  -fx-background-image: url("background.jpeg");
}

.button {
  -fx-text-fill: white;
  -fx-font-family: "Arial Narrow";
  -fx-font-weight: bold;
  -fx-background-color: linear-gradient(#61a2b1, #2A5058);
  -fx-effect: dropshadow( three-pass-box , rgba(0,0,0,0.6) , 5, 0.0 , 0 , 1 );
}

.label {
  -fx-font-size: 36px;
  -fx-font-weight: bold;
  -fx-text-fill: #333333;
  -fx-effect: dropshadow( gaussian , rgba(255,255,255,0.5) , 0,0,0,1 );
}

.textfield{
  -fx-prompt-text-fill: rgba(255,255,255,0.5);
}
```

# SQLite - JDBC

Database Tutorial

## Database - Terminal

SELECT command:

INSERT command:

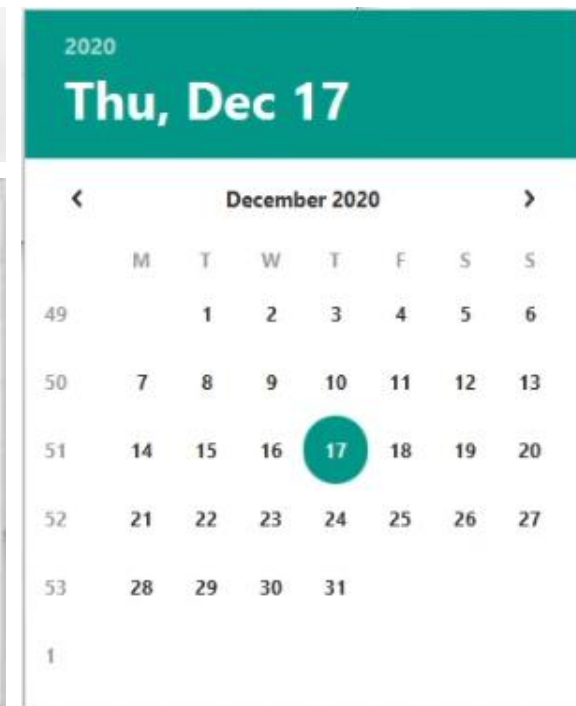
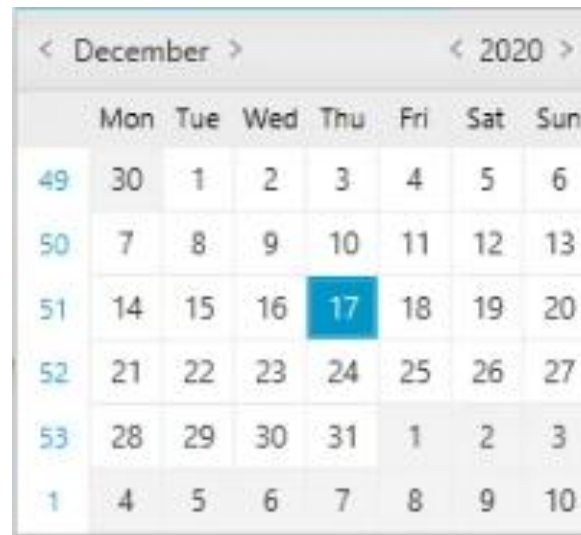
UPDATE command:

ID	Name
Filter	Filter
1	Hermann Maier
2	Marcel Hirscher
3	Hannes Reichelt
4	Benjamin Reich

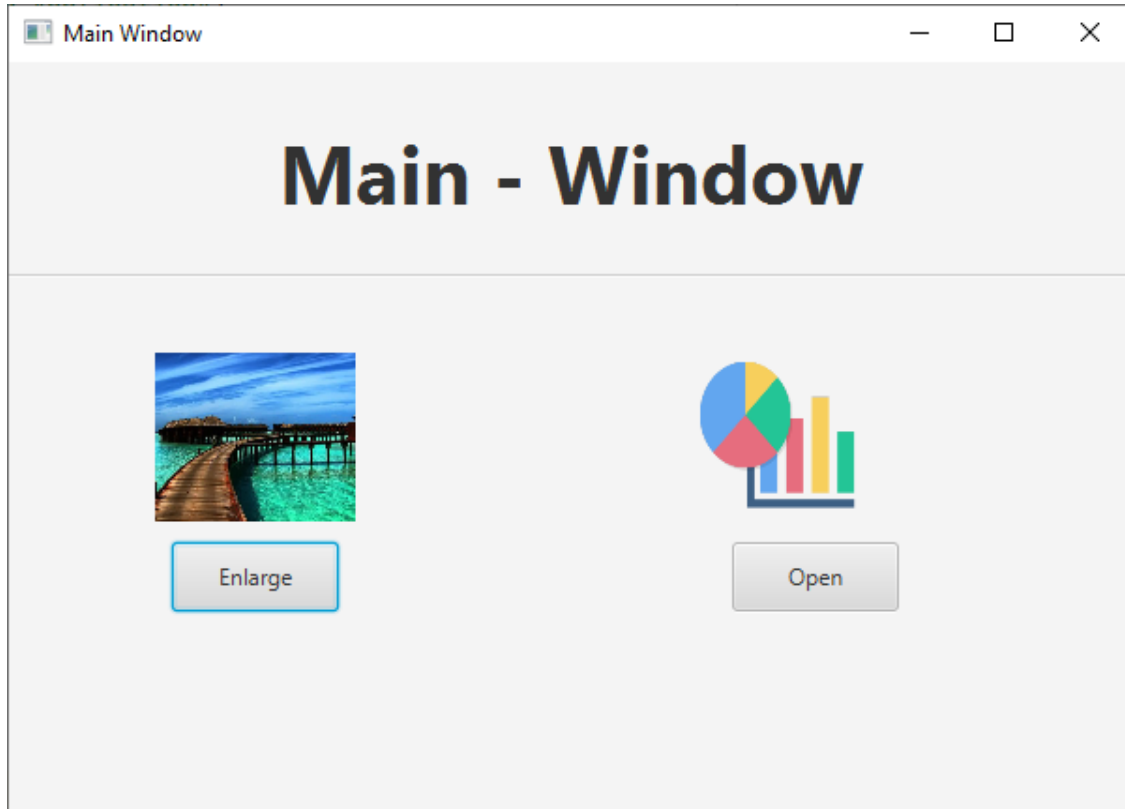
# JFoenix – Styling Class

Starting Window

	Default Style	JFoenix Style
Button:		
CheckBox:	<input type="checkbox"/> CheckBox	<input checked="" type="checkbox"/> CheckBox
DatePicker:	<input type="text" value="17/12/2020"/>	<input type="text" value="17/12/2020"/>
Slider:		



# Multiple GUIs





# Additional Features

