#### **DHBW Karlsruhe, Angewandte Informatik**

Programmieren in JAVA – https://www.iai.kit.edu/~javavorlesung W. Geiger, T. Schlachter, C. Schmitt, W. Süß



## Bereich: Grafische Benutzeroberflächen (GUI/Swing) (1)

# **Swing-Grundkomponenten** Musterlösung Package: de.dhbwka.java.exercise.ui Klasse: ComponentFrame package de.dhbwka.java.exercise.ui; import java.awt.FlowLayout; import javax.swing.\*; \* Part of lectures on 'Programming in Java'. Baden-Wuerttemberg \* Cooperative State University. \* (C) 2016-2018 by W. Geiger, T. Schlachter, C. Schmitt, W. Suess \* @author DHBW lecturer \* @version 1.1 @SuppressWarnings( "serial" ) public class ComponentFrame extends JFrame { public ComponentFrame() { this( "ComponentFrame" ); } @SuppressWarnings( { "unchecked", "rawtypes" } ) public ComponentFrame( String title ) { super( title ); // Default layout for JFrame content would be BorderLayout! this.setLayout( new FlowLayout() ); this.add( new JLabel( "JLabel" ) ); this.add( new JTextField( "JTextField" ) ); this.add( new JPasswordField( "JPasswordField" ) ); this.add( new JButton( "JButton" ) ); this.add( new JToggleButton( "JToggleButton" ) ); this.add( new JCheckBox( "JCheckBox" ) ); // No generic type for JComboBox - we had no generics yet this.add( new JComboBox( new String[] { "Item 1", "Item 2", "Item 3", "Item 4" } ) ); // ButtonGroup connects the RadioButtons as a functional unit ButtonGroup group = new ButtonGroup(); for ( int i = 1; i <= 3; i++ ) { JRadioButton rb = new JRadioButton( "Radio-Button-" + i ); group.add( rb ); this.add( rb ); this.setDefaultCloseOperation( JFrame.EXIT ON CLOSE ); this.setSize( 640, 100 ); this.setVisible( true ); public static void main( String[] args ) { new ComponentFrame( "Several basic Swing components" ); } }

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## Bereich: Grafische Benutzeroberflächen (GUI/Swing) (1)

Frame mit Text

Musterlösung

Package: de.dhbwka.java.exercise.ui

Klasse: TextFrame

```
Package: de.dhbwka.java.exercise.ui
package de.dhbwka.java.exercise.ui;
import java.awt.BorderLayout;
import java.io.BufferedReader;
import java.io.FileReader;
import java.io.IOException;
import javax.swing.JFrame;
import javax.swing.JTextArea;
* Part of lectures on 'Programming in Java'. Baden-Wuerttemberg
 * Cooperative State University.
 * (C) 2016-2018 by W. Geiger, T. Schlachter, C. Schmitt, W. Suess
 * @author DHBW lecturer
 * @version 1.1
@SuppressWarnings( "serial" )
public class TextFrame extends JFrame {
   public TextFrame( String filename, int width, int height ) {
      super( filename );
      this.setLayout( new BorderLayout() );
      this.add( new JTextArea( TextFrame.readFile( filename ) ) );
      this.setDefaultCloseOperation( JFrame.EXIT ON CLOSE );
      this.setSize( width, height );
      this.setVisible( true );
   }
    * Read a text file and return its content as String
    * @param filename
                file name to open text file from
    * @return content of file
   private static String readFile( String filename ) {
      StringBuilder content = new StringBuilder();
      try ( BufferedReader br =
            new BufferedReader( new FileReader( filename ) ) ) {
         while ( br.ready() ) {
            content.append( br.readLine() ).append( System.lineSeparator() );
      } catch ( IOException e ) {
         return "Error reading File " + filename;
      return content.toString();
   }
```

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