DHBW Karlsruhe, Angewandte Informatik

Programmieren in JAVA – https://www.iai.kit.edu/javavl
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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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Frame mit Text Musterlösung 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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