# OUTLINE
# RAD DEVELOPMENT AND COMPONENT CREATION

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**RAD DEVELOPMENT AND COMPONENT CREATION .....**

**LEVERAGING VISUAL FORM INHERITANCE .....**

ADVANTAGES OF VFI .....
INHERITED METHODS .....
OVERRIDING INHERITED METHODS .....
DERIVING FROM THE CURRENT PROJECT .....
DEFINING A SHARED OBJECT REPOSITORY .....
COMPONENTS TO AVOID .....

**USING COMPONENT TEMPLATES .....**

CREATING A COMPONENT TEMPLATE .....
CREATING COMPONENT TEMPLATES WITH EVENT HANDLERS .....
DELETING COMPONENT TEMPLATES .....
COMPONENT TEMPLATE GUIDELINES .....

**UNDERSTANDING FRAMES .....**

CREATING A FRAME .....
USING A FRAME .....
FRAMES AND INHERITANCE .....
OVERRIDING CONTAINED COMPONENT PROPERTIES .....
*Reverting Properties to their Original Values* .....
CONTAINED OBJECT EVENT HANDLERS .....
OVERRIDING CONTAINED OBJECT EVENT HANDLERS .....
FRAMES THAT SAVE RESOURCES .....
SIMPLIFYING FRAME USAGE .....
*Adding a Frame to the Component Palette* .....
*Using a Frame from the Component Palette* .....
*Adding a Frame to the Object Repository* .....
*Using a Frame from the Object Repository* .....
TURNING FRAMES INTO TRUE COMPONENTS .....

**OBJECTS, COMPONENTS, AND PACKAGES .....**

**WORKING WITH PACKAGES .....**

MORE ABOUT PACKAGES .....
CREATING PACKAGES .....
USING CUSTOM PACKAGES .....
ADDITIONAL COMMENTS ABOUT PACKAGES .....

**OVERVIEW OF OBJECTS .....**


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FROM RECORD TO CLASS
ENCAPSULATION AND MEMBER VISIBILITY
*Private Members*
*Protected Members*
*Public Members*
*Published Members*
DEFINING THE RUNTIME INTERFACE
INHERITANCE AND POLYMORPHISM
*Reusing Code Through Inheritance*
*Generic Object Reference Through Polymorphism*

**INTRODUCTION TO COMPONENT CREATION**

COMPONENT DESIGN GUIDELINES

**A SIMPLE COMPONENT EXAMPLE: DEFINING NEW PROPERTY DEFAULTS**

USING THE COMPONENT WIZARD
OVERRIDING A METHOD
IMPLEMENTING THE OVERRIDDEN CONSTRUCTOR
TESTING A NEW COMPONENT
INSTALLING THE COMPONENT

**CREATING THE DESIGN-TIME PACKAGE**

CONFIGURING THE PACKAGE

**AN EXAMPLE WITH PROPERTIES**

DEFINING MEMBER FIELDS
DEFINING PROPERTIES
DEFINING PROPERTY CATEGORIES
DEFINING METHODS
*Static Methods*
*Abstract Methods*
*Virtual and Dynamic Methods*
OVERRIDING EXISTING METHODS
IMPLEMENTING THE OVERRIDDEN METHODS
CREATING EVENT PROPERTIES
FINISHING THE COMPONENT: ATTENTION TO DETAIL
*Synchronizing Property Values*
*Writing Better Event Properties*

**RAISING PROPERTY VISIBILITY**

**REINTRODUCED METHODS**

**METHODS AND THE IMPLIED CONTRACT**

**ADVANCED COMPONENT DESIGN ISSUES**

DESIGN-TIME BEHAVIOR
*Detecting Design Time*
PUBLISHING SUBCOMPONENTS
COMPONENT MESSAGE HANDLING
*Delphi's Message Handling*
*How Messages are Associated with Methods*
*A Message Handling Example*
CREATING DATA-AWARE COMPONENTS
*Using Datalinks*


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*Packages with Data-Aware Controls* .....
DISTRIBUTING PACKAGE COLLECTIONS .....

**PROPERTY EDITORS** .....

DERIVING A PROPERTY EDITOR .....
OVERRIDING INHERITED METHODS .....
REGISTERING A PROPERTY EDITOR .....
ADDING A PROPERTY EDITOR TO THE COMPONENT LIBRARY .....
REPLACING A DEFAULT PROPERTY EDITOR .....

**CREATING COMPONENT EDITORS** .....

DECLARING THE NEW COMPONENT EDITOR .....
IMPLEMENTING OVERRIDDEN METHODS .....
REGISTERING A COMPONENT EDITOR .....

**OVERVIEW OF THE PROPERTY EDITOR AND COMPONENT EDITOR WIZARDS** .....

INSTALLING THE WIZARDS .....
USING THE COMPONENT EDITOR EXPERT .....
USING THE PROPERTY EDITOR WIZARD .....

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