



JAVA SWINGS:

Swing is a set of program elements for Java programmers that offer the flexibility to form graphical user interface (graphical user interface) elements, like buttons and scroll bars, that square measure freelance of the windowing system for specific software system. Swing elements are used with the Java Foundation classes (JFC).

The Swing Application Framework (JSR 296) is a Java specification for an easy application framework for Swing applications, with a graphical user interface (GUI) in pc code. It defines infrastructure common to most desktop applications, creating Swing applications easier to create.

Java Swing was developed to produce an additional subtle set of graphical user interface elements than the sooner Abstract Window Toolkit (AWT). Swing provides a glance and feel that emulates the design and feel of many platforms, and additionally supports a pluggable look and feel that permits applications to own a glance and feel unrelated to the underlying platform. Its additional powerful and versatile elements than AWT. Additionally to familiar elements like buttons, check boxes and labels, Swing provides many advanced elements like tabbed panel, scroll panes, trees, tables, and lists.

Swing introduced a mechanism that allowed the design associated feel of each part in an application to be altered while not creating substantial changes to the applying code. The introduction of support for a pluggable look and feel permits Swing elements to emulate the looks of native components whereas still retentive the advantages of platform independence. Originally distributed as a one by one downloadable library, Swing has been included as a part of the Java normal Edition since release.



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Course Content:

- Introduction to JFC
- Abstract Windowing Toolkit Basics
- Simple Layout Management
- Simple Event Handling
- Lightweight Controls
- JFC Feature Set
- JFC Architecture and Relationship to AWT

JFC Application Design:

- Role of a JFrame
- Building a Frame-Based JFC Application
- Panes
- Using Dialogs

JFC Components:

- JFC Component Class Hierarchy
- JComponent Features



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- Simple Control Types
- Text Components
- Menus
- Managing Look and Feel
- Architectural Patterns
- Observer Pattern
- Model-View-Controller Decomposition
- Strategy Pattern
- JList
- Factory Pattern
- JComboBox

Trees and Tables:

- Hierarchical Data and JTree
- Presenting Hierarchies
- JTree and Supporting Classes
- Using the Default Tree Model
- Customizing Look and Feel



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- Implementing a Tree Model
- Custom Rendering
- Custom Editing
- Tabular Data and JTable
- Presenting Tabular Data
- JTable and Supporting Classes
- Implementing a Tree Model
- Customizing Look and Feel
- Custom Rendering
- Custom Editing
- Managing the Model
- Adapting Existing Data Structures
- Very Large Data Sets and GUIs
- Caching
- Lazy Evaluation Using Tree and Table Models
- Limiting the Cache with an Evictor
- Anticipating User Requests



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Advanced GUI Design:

- Organizing Application Windows
- Viewport Abstraction
- JScrollPane
- Scrollable Elements
- Customizing Scrolling
- Tabbed Panes
- Splitter Panes

Popup GUI Elements:

- Dialog Boxes
- Message Boxes
- Using File Choosers
- Customizing File Choosers
- Using Colour Choosers
- Custom Dialogs
- Tooltips
- Popup Menus



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Data Transfer:

- The Data Transfer Model
- Transferable Objects
- Data Flavours and MIME Types
- The Clipboard API
- The Drag-and-Drop API

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