SWING:
CLASSES AND BUILDING BLOCKS - I

BASIC BUILDING BLOCKS – JFRAMES AND JCOMPONENTS

EACH UI APPLICATION HAS A SINGLE JFrame

A JFrame CONTAINS MANY UI ELEMENTS

EACH UI ELEMENT IS A JComponent

EXAMPLES OF JComponent INCLUDE

JTextArea   JTreeView   JMenuBar
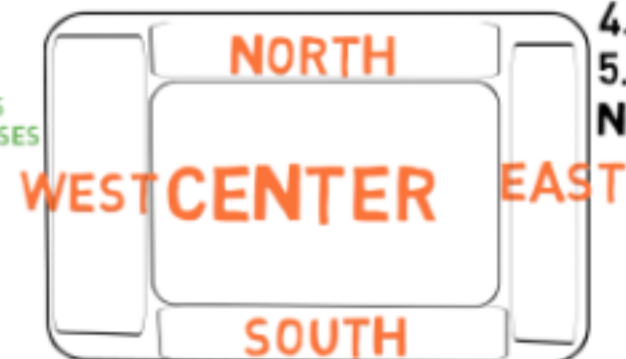
JScrollPane   JPanel   JFileChooser

WE WILL USE EACH ONE OF THESE CLASSES IN OUR EXAMPLE

IT IS SURPRISINGLY DIFFICULT TO GET
UI ELEMENTS POSITIONED PRECISELY
INSIDE A   JFrame

THE EASIEST WAY TO DO THIS IS USING Layouts

THEY MANAGE THE PLACEMENT OF UI
ELEMENTS INSIDE ANOTHER UI ELEMENT

BORDERLAYOUT
IS ONE OF MANY
DIFFERENT TYPES
OF LAYOUT CLASSES

NORTH

WEST CENTER EAST

SOUTH

A COMMON WAY OF DOING THIS:
1. SPECIFY LAYOUT ON JFRAME
2. ADD PANELS TO EACH PART OF
JFRAME
3. SPECIFY LAYOUT FOR EACH PANEL
4. ADD UI ELEMENTS TO EACH PANEL
5. USE SCROLLBARS WHEREVER
NEEDED

SWING HAS MULTIPLE ELEMENTS FOR TEXT

JTextField   SINGLE LINE, INPUT AND OUT

JTextArea   MULTIPLE LINES, INPUT AND OUTPUT,
TEXT CAN BE WRAPPED

JEditorPane A LIGHTWEIGHT BROWSER CONTROL, GIVEN
A URL WILL RENDER IT TO SCREEN