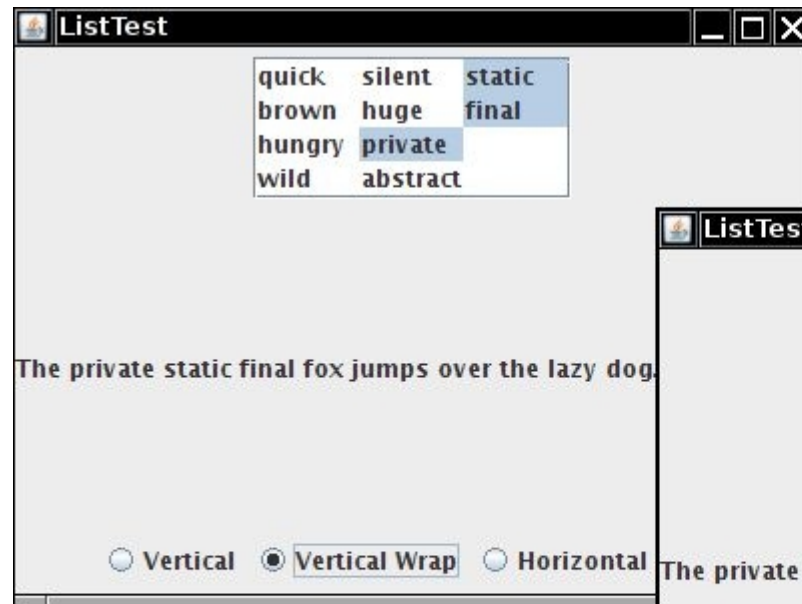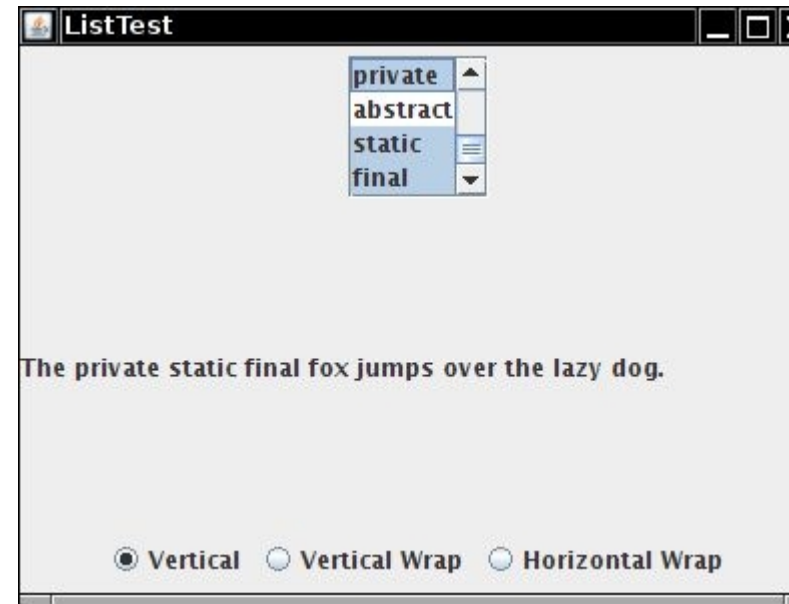# Advance Swing

By: Dinesh Amatya

List

String[] words= { "quick", "brown", "hungry", ….};
JList<String> wordList = new Jlist<>(words);
JScrollPane scrollPane = new JscrollPane(wordList);
wordList.setVisibleRowCount(4);
wordList.setLayoutOrientation(JList.VERTICAL_WRAP);

Jlist.VERTICAL

Jlist.VERTICAL_WRAP

JList.HORIZONTAL_WRAP

List contd...

```
wordList.setSelectionMode(ListSelectionModel.MULTIPLE_INTERVAL_SELE
CTION);

ListSelectionModel.SINGLE_SELECTION
ListSelectionModel.SINGLE_INTERVAL_SELECTION
ListSelectionModel.MULTIPLE_INTERVAL_SELECTION


wordList.setPrototypeCellValue("www");
wordList.setFixedCellWidth(50);
wordList.setFixedCellHeight(15);


wordList.addListSelectionListener(new ListSelectionListener()
    {
        public void valueChanged(ListSelectionEvent evt)
        {
            label.setText(wordList.getSelectedValue());
        }
    });
```

List Models

→ Used for

    Very long lists
    Lists with changing contents
    Lists that don't contain strings

→ extend

   AbstractListModel<E>

→ implement

   int getSize()
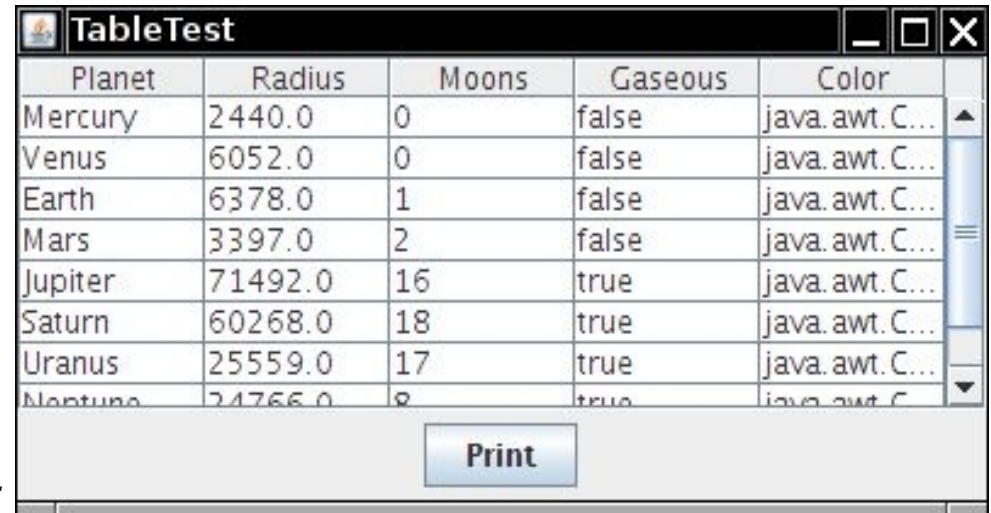   *E getElementAt(int n)*

Tables

```
String[] columnNames = { "Planet", "Radius", "Moons",
"Gaseous", "Color" };

Object[][] cells =
{
    { "Mercury", 2440.0, 0, false, Color.YELLOW },
    { "Venus", 6052.0, 0, false, Color.YELLOW },
    . . .
}




JTable table = new JTable(cells, columnNames);

JScrollPane pane = new JscrollPane(table);

table.print();
```
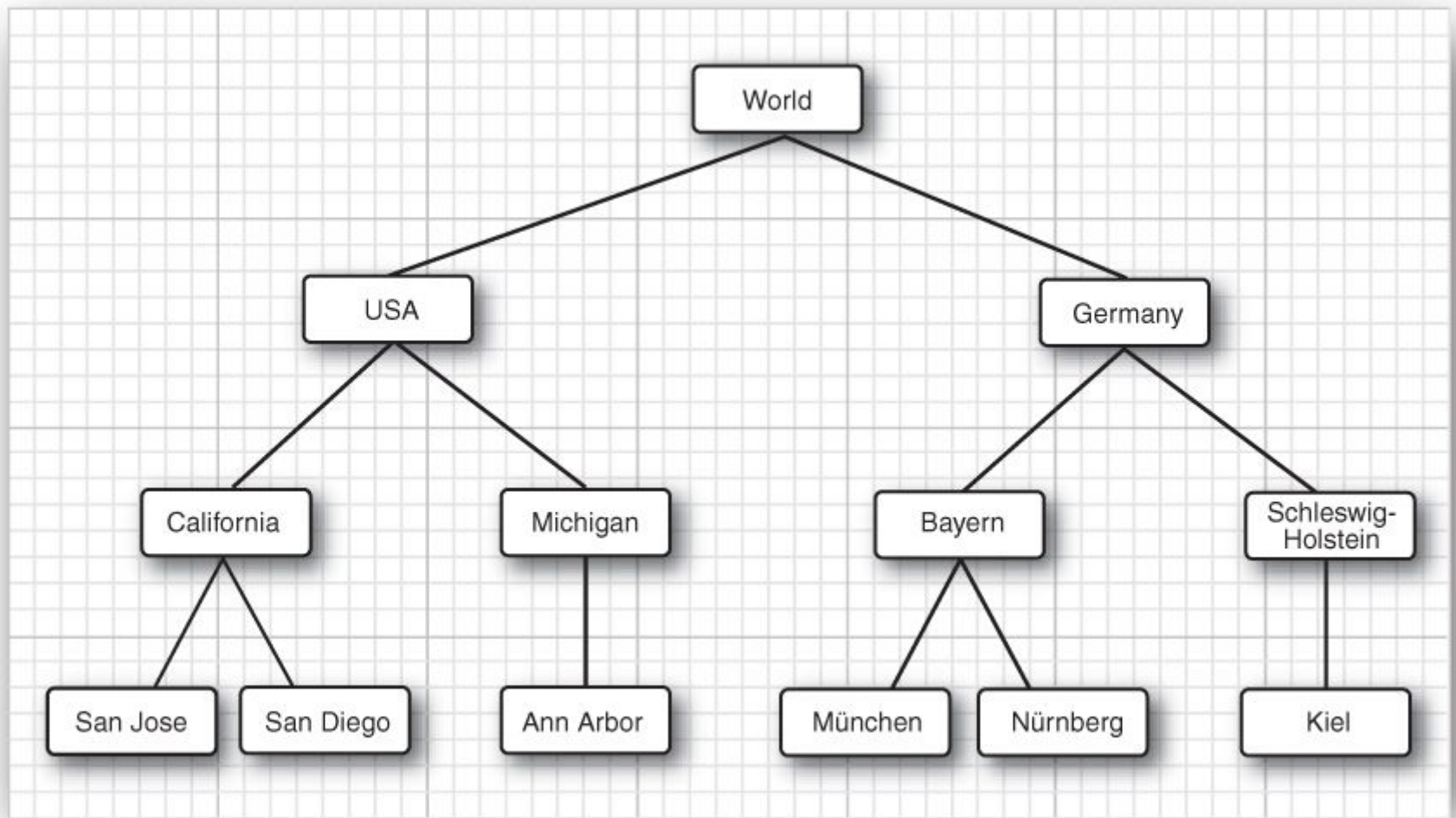
Table Models

→ extend

       AbstractTableModel

→ implement

       public int getRowCount();
       public int getColumnCount();
       public Object getValueAt(int row, int column);

Tree

Nodes , Leaf , Parent , Root node , Child node , Forest

Tree contd...

TreeNode root = new DefaultMutableTreeNode("World");

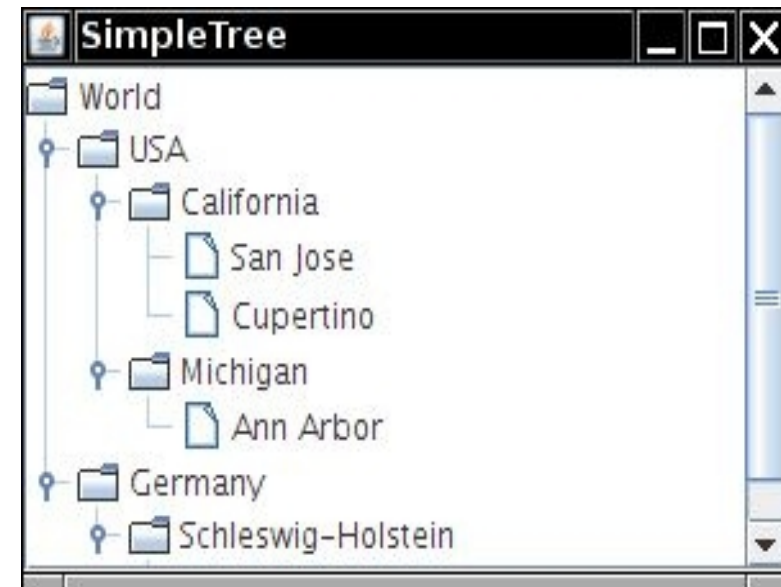DefaultMutableTreeNode country = new
DefaultMutableTreeNode("USA");

root.add(country);

TreeModel model = new DefaultTreeModel(root);
JTree tree = new Jtree(treeModel);

JscrollPane pane = new JscrollPane(tree);

tree.putClientProperty("JTree.lineStyle", "None");

Progress Bars

HomeWork